

# **Preliminary Geotechnical Engineering Report for Structures**

**Wildlife Crossing No. 2 for  
Wekiva Parkway (SR 429/SR 46) – Section 6 from  
West of Old McDonald Road to River Oaks Circle  
Lake and Seminole Counties, Florida**

December 12, 2014

Terracon Project No. H1135080

**Prepared for:**

GAI Consultants, Inc.

Orlando, Florida

**Prepared by:**

Terracon Consultants, Inc.

Winter Park, Florida

December 12, 2014

GAI Consultants, Inc.  
618 E. South Street, Suite 700  
Orlando, FL 32801

Attn: Mr. Stephen A. Boylan, P.E.  
P: [407] 423-8398 (ext. 3083)  
F: [407] 843-1070

Re: Preliminary Geotechnical Engineering Report for Structures  
Wildlife Crossing No. 2 for  
Wekiva Parkway (SR 429/SR 46) – Section 6 from  
West of Old McDonald Road to River Oaks Circle  
Lake and Seminole Counties, Florida  
FPID: 238275-7-32-02  
Terracon Project Number: H1135080

Dear Mr. Boylan:

Terracon Consultants, Inc. (Terracon) is pleased to present this preliminary geotechnical engineering report for the subject bridge proposed along the referenced project alignment. This evaluation was performed in general accordance with our Agreement dated June 20, 2013.

This preliminary report presents the findings of the subsurface exploration and provides preliminary geotechnical recommendations concerning the design of foundations for the proposed bridge construction. A more detailed evaluation is expected to be performed once loads are finalized and a preferred foundation alternative is selected.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report, or if we may be of further service, please contact us.

Sincerely,

**Terracon Consultants, Inc.**

Certificate of Authorization Number 8830

**DRAFT**

Elias N. Jammal, P.E.  
Senior Geotechnical Engineer  
Florida PE #60126

**DRAFT**

Richard G. Acree, P.E.  
Principal  
Florida PE #53962

Terracon Consultants, Inc. 1675 Lee Road Winter Park, Florida 32789  
P [407] 740 6110 F [407] 740 6112 terracon.com

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**PRELIMINARY GEOTECHNICAL ENGINEERING REPORT  
FOR STRUCTURES  
WILDLIFE CROSSING NO. 2  
FOR WEKIVA PARKWAY (SR 429/SR 46) FROM  
WEST OF OLD McDONALD ROAD TO RIVER OAKS CIRCLE  
LAKE AND SEMINOLE COUNTIES, FLORIDA  
FPID: 238275-7-32-02  
Terracon Project No. H1135080  
December 12, 2014**

## **1.0 INTRODUCTION**

This preliminary geotechnical engineering report has been prepared for Wildlife Crossing No. 2 which is proposed near County Road 46A, along the Wekiva Parkway (SR 429/SR 46) alignment, in Lake County, Florida. This bridge is part of the proposed improvements associated with the construction of Wekiva Parkway (SR 429/SR 46) – Section 6 from West of Old McDonald Road to River Oaks Circle in Lake and Seminole Counties, Florida. The project bridge site is shown on the Topographic Vicinity Map included as Exhibit A-1 in Appendix A. Separate reports are planned to be submitted for other components (roadway, drainage, bridges, and retaining walls) of the project. This preliminary report addresses an initial evaluation of foundations for the proposed bridge described above. The purpose of these services is to provide information and preliminary geotechnical engineering recommendations relative to preliminary foundation design of the bridges.

## **2.0 PROJECT INFORMATION**

### **2.1 Project Description**

<b>Item</b>	<b>Description</b>
<b>Site Layout</b>	See Appendix A, Exhibits A-3, A-4 and A-5 (boring location plans).
<b>Structure</b>	Wildlife Crossing No. 2 consists of the construction of triple multi-span bridges, each approximately 3,870 feet in length.
<b>Pile Loads</b>	Anticipated pile loading for each foundation type evaluated, is presented in Section 4.0 of this report.

## Preliminary Geotechnical Engineering Report

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### 2.2 Site Location and Description

Item	Description
Location	Wildlife No. Crossing 2 area is located along proposed State Road 429 from about Station 796+65 to Station 835+37, referencing the centerline of construction of State Road 429.
Existing Topography	The Wildlife Crossing No. 2 area is relatively flat. The USGS topographic quadrangle map "Sanford SW, Florida" depicts the ground surface elevations near +45 at the west end to +30 feet at the east end, NGVD.
Surface Water	The USGS topographic quadrangle map "Sanford SW, Florida" depicts wetland areas to the south and southeast of the proposed bridge area.

## 3.0 SUBSURFACE CONDITIONS

### 3.1 Soil Survey

The Soil Survey of Lake County, Florida as prepared by the United States Department of Agriculture (USDA), Soil Conservation Service (SCS; later renamed the Natural Resource Conservation Service - NRCS), identifies multiple soil types along the Wildlife Crossing No. 2 bridge site. Descriptions of the mapped soil units are included in Appendix A as Exhibit A-32. It should be noted that the Soil Survey is not intended as a substitute for site-specific geotechnical exploration; rather it is a useful tool in planning a project scope in that it provides information on soil types likely to be encountered. Boundaries between adjacent soil types on the Soil Survey maps are approximate (included in Appendix as Exhibit A-2).

### 3.2 Fieldwork Program

Standard Penetration Test (SPT) borings were performed within the area of the proposed Wildlife Crossing No. 2 bridge site. This included a total of 71 SPT borings, designated WL2-B1 through WL2-B64, performed to depths of about 70 to 165 feet. Profiles of the borings along with a boring location plan for the bridge site are included in Appendix A of this report.

Nadic Engineering Services (NES) performed borings for the bridge site (designated borings TB-5 through TB-11), for the Line & Grade Study. These boring profiles are included in Appendix C of this report.

## Preliminary Geotechnical Engineering Report

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### 3.3 Typical Profile

Based on the results of the borings, subsurface conditions at the project areas can be generalized as follows:

Approximate Depth to Bottom of Stratum (feet)	Material Description	Consistency/ Density
5 to 20	Fine sand (SP), fine sand with silt (SP-SM)	Very loose to loose
20 to 60	Fine sand (SP), fine sand with silt (SP-SM), silty fine sand (SM), clayey fine sand (SC), with varying amounts of shell fragments and phosphates	Loose to dense
35 to 75	Clayey fine sand (SC), sandy clay and clay (CL)(CH), with varying amounts of phosphates	Very soft to stiff
65 to 95	Fine sand (SP), fine sand with silt (SP-SM), silty fine sand (SM), clayey fine sand (SC), with varying amounts of dolostone and phosphates	Dense to very dense
70 to 125	Fine sand (SP), fine sand with silt (SP-SM), silty fine sand (SM), clayey fine sand (SC), with varying amounts of shell fragments and phosphates	Loose to dense
110 to 165	Weathered Limestone and Limestone	Loose to very dense

Conditions encountered at each boring location are indicated on the individual boring profiles. Stratification boundaries on the boring profiles represent the approximate location of changes in soil types; in-situ, the transition between materials may be gradual. Details for each of the borings can be found on the boring profiles in Appendix A of this report. Descriptions of our field exploration are included as Exhibit A-33 in Appendix A.

### 3.4 Groundwater

The boreholes were observed during drilling for the presence and level of groundwater. Groundwater was observed in the majority of the borings ranging between depths of about 0.5 to 9 feet below existing grade. Some of the borings did not encounter groundwater to a depth of 10 feet (approximate depth at which driller's mud is typically introduced in the borehole for stabilization purposes), and are designated *GNE-10'* adjacent to the boring profiles.

It should be recognized that fluctuations of the groundwater table will occur due to seasonal variations in the amount of rainfall, runoff and other factors not evident at the time the boring was performed. In addition, perched water can develop within higher permeability soils overlying less permeable soils. Therefore, groundwater levels during construction or at other times in the future may be higher or lower than the levels indicated on the boring profiles.

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We estimate that during the normal wet season with rainfall and recharge at a maximum, groundwater levels will range from existing grade to a depth of about 6 feet below existing grade. Our estimates of the seasonal groundwater conditions are based on the USDA Soil Survey, available survey data, the encountered soil types, recent weather conditions, and the encountered water levels.

These seasonal water table estimates do not represent the temporary rise in water table that occurs immediately following a storm event, including adjacent to other stormwater management facilities or water bodies. The seasonal high water table may vary from normal when affected by extreme weather changes, localized or regional flooding, karst activity, future grading, drainage improvements, or other construction that may occur on or around the site following the date of this report.

## **4.0 PRELIMINARY RECOMMENDATIONS FOR DESIGN**

### **4.1 Geotechnical Considerations**

The following preliminary conclusions and recommendations are based on the project characteristics previously described, the data obtained in our field exploration and our experience with similar subsurface conditions and construction types. If final structure locations or grades are significantly different from those previously described in this report, or if subsurface conditions different from those discussed by the borings are encountered during construction, we should be notified immediately so that we might review and modify, if necessary, the following recommendations. Once final loads are known and a preferred pile type is selected, a more detailed foundation evaluation is expected to be performed.

### **4.2 Foundation Alternatives**

Based on the subsurface conditions at the site, deep pile foundation systems appear to be the most feasible foundation alternative for the construction of the proposed bridges, with respect to geotechnical engineering issues. A shallow foundation (spread footings) alternative was not considered for the bridge structures. A drilled shaft foundation was also not considered since drilled shafts are typically used in scenarios where relatively shallow dense soil/rock strata is present, which was not consistently the case at these sites. Thus, the 18 and 24-inch square prestressed concrete pile (PCP), 20-inch steel pipe pile, and the HP14x89 steel H-pile section were evaluated.

### **4.3 Concrete and Steel Pile Foundations**

The FDOT computer model FBDeep was used to evaluate estimated Davisson ultimate capacities for the 18 and 24-inch square prestressed concrete pile (PCP), the 20-inch steel pipe pile, and the HP14x89 steel H-pile section. The input soil parameters were obtained from the SPT borings

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performed for this preliminary evaluation. The Davisson capacities versus pile tip elevations for the various pile types are presented in **Appendix B**, along with the **FBDeep Computer Outputs**.

The Davisson capacities shown on the curves in **Appendix B** for the various pile sections can be used to find approximate tip elevations and estimate pile lengths for the driven piles using the following formula:

$$\text{Nominal Bearing Resistance (NBR)} \geq \frac{\text{Factored Design Load} + \text{Net Scour} + \text{Downdrag}}{\Phi}$$

Where  $\Phi$  is a resistance factor and

$\Phi = 0.75$  with static load testing.

$\Phi = 0.65$  with PDA and CAPWAP analysis of test piles.

### 4.4 Preliminary Pile Tip Estimates

Our estimate of driven pile lengths was based on static pile analysis. The actual driven lengths will be a function of the actual field driving behavior. The driving system used should be a proper type and have sufficient hammer energy in accordance with Specification Section 455.

Test piles with dynamic load tests are anticipated for the bridge structure. Test pile locations should be shown on the foundation layout sheet. We recommend that piles be driven prior to the construction of the proprietary retaining wall system.

The estimated preliminary pile tip elevations are based on review of the borings, our pile capacity analyses, geotechnical engineering judgment, and our understanding of criteria for pile bearing requirements in accordance with the FDOT specifications.

Set-checks and/or restrikes may be required for some of the piles. A note should be added to the plans to alert the Contractor to anticipate that set-checks and re-drives will be required.

Based on the FDOT Structures Design Guidelines, the maximum pile driving resistance for an 18-inch PCP should not exceed 300 tons; and the maximum pile driving resistance for a 24-inch PCP should not exceed 450 tons. However, due to potential difficulties with driving the piles and the potential for pile damage, the maximum pile driving resistances for the concrete piles should be limited. For purposes of preliminary design, the following NBR values were evaluated:

- 240 tons for the 18-inch pile;
- 360 tons for the 24-inch pile;
- 200 tons was used for the 20-inch steel pipe pile;
- 150 tons was used for the HP14x89 steel H-pile.



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The following table presents estimated pile tip elevations based on potential pile types and loads for the bridges. Once factored design loads and pile types are finalized, a more detailed foundation evaluation is expected to be performed.

Bridge Bent/Pier	Pile Type							
	18-inch PCP		24-inch PCP		20-inch steel pipe pile		HP14x89	
	NBR (tons)	Pile Tip (feet)	NBR (tons)	Pile Tip (feet)	NBR (tons)	Pile Tip (feet)	NBR (tons)	Pile Tip (feet)
1	240	-20 to -25	360	-20 to -25	200	-30 to -35	150	-35 to -40
2	240	-25 to -90	360	-25 to -90	200	-30 to -90	150	-65 to -115
3	240	-20 to -25	360	-20 to -25	200	-25 to -30	150	-30 to -35
4	240	-20 to -25	360	-20 to -25	175*	-20 to -25	100*	-20 to -30
5	240	-20 to -30	360	-25 to -30	200	-30 to -35	125*	-30 to -35
6	240	-20 to -60	360	-20 to -60	200	-25 to -60	150	-35 to -65
7	240	-25 to -95	360	-25 to -95	200	-30 to -110	150	-35 to -110
8	240	-20 to -110	360	-20 to -110	200	-20 to -110	150	-30 to -110
9	240	-25 to -30	360	-25 to -30	200	-25 to -35	150	-35 to -45
10	240	-40 to -50	360	-40 to -50	200	-45 to -55	150	-55 to -60
11	240	-40 to -105	360	-40 to -105	200	-45 to -115	150	-50 to -115
12	240	-35 to -40	360	-35 to -40	200	-35 to -45	150	-35 to -55
13	240	-45 to -50	360	-45 to -50	200	-50 to -55	150	-50 to -55
14	240	-35 to -40	360	-35 to -40	200	-40 to -45	150	-40 to -45
15	240	-35 to -45	360	-35 to -45	200	-40 to -50	150	-40 to -60
16	240	-35 to -40	360	-35 to -40	200	-40 to -45	150	-45 to -50
17	240	-30 to -35	360	-30 to -35	200	-40 to -45	150	-45 to -55
18	240	-35 to -40	360	-35 to -40	200	-40 to -45	150	-50 to -55
19	240	-35 to -40	360	-35 to -40	200	-40 to -45	150	-45 to -55
20	240	-35 to -45	360	-35 to -45	200	-40 to -50	150	-50 to -60
21	240	-40 to -45	360	-40 to -45	200	-45 to -50	150	-50 to -55
22	240	-40 to -45	360	-40 to -45	200	-45 to -50	150	-55 to -60
23	240	-40 to -45	360	-40 to -45	200	-45 to -50	150	-45 to -50
24	240	-40 to -45	360	-40 to -45	200	-45 to -50	150	-50 to -55
25	240	-35 to -45	360	-35 to -45	200	-45 to -50	125*	-45 to -50
26	240	-45 to -50	360	-45 to -50	200	-50 to -55	150	-50 to -60
27	240	-35 to -40	360	-35 to -40	200	-40 to -45	150	-45 to -50
28	240	-40 to -45	360	-40 to -45	200	-45 to -55	150	-55 to -85
29	240	-40 to -50	360	-40 to -50	200	-45 to -50	150	-50 to -55
30	240	-45 to -50	360	-50 to -55	200	-55 to -60	150	-55 to -65
31	240	-40 to -45	360	-40 to -45	175*	-40 to -45	100*	-45 to -50
32	240	-40 to -50	360	-40 to -50	200	-45 to -55	150	-45 to -65
33	240	-45 to -110	360	-45 to -110	175*	-45 to -110	100*	-45 to -110
34	240	-40 to -45	360	-40 to -45	200	-45 to -50	150	-45 to -55
35	240	-45 to -50	360	-45 to -50	200	-50 to -60	150	-55 to -65

\* evaluated for lower NBR than was typically assessed.

## **Preliminary Geotechnical Engineering Report**

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### **4.5 Downdrag**

Downdrag will need to be further evaluated once grades are finalized and a foundation type has been selected.

### **4.6 High Rebound**

The potential for high rebound conditions may need to be evaluated at the bridge site. High rebound typically occurs when driving displacement-type piles (solid concrete, closed-end steel or concrete pile, “plugged” pipes, etc.) into saturated soils (very stiff to hard silts/clays). High rebound conditions may adversely affect pile driveability and may affect the assessment of the pile’s bearing capacity. To avoid or to account for potential high rebound conditions, this may include:

- Preforming to a depth below the high rebound soils,
- Indicating a minimum pile tip elevation below the high rebound soils,
- Using a low-displacement pile such as an H-pile, and/or
- Using a pile driving system with a larger ram and a shorter stroke.

### **4.7 Noise/Vibration**

Noise and vibration caused by pile driving should be considered for this project. All reasonable precautions to prevent damage to nearby, existing structures in accordance with Section 455 of the FDOT Specifications shall be taken.

### **4.8 Pile Group Effects**

No reduction of the individual pile capacities will be required if piles are spaced center to center at three times width or greater. The pile caps usually contribute to the overall bearing capacity of the pile group, provided they are supported on competent soil outside the outer perimeter of the group. However, we do not recommend taking credit for this additional capacity because of potential for loss of soil cover at the pile cap.

### **4.9 Pile Data Table**

Once final loads and pile types are available, information for a pile data table for incorporation into the project plans can be provided.

### **4.10 Environmental Classification**

A total of fifteen (15) soil samples were obtained from the SPT borings, performed at the bridge site, for corrosion series testing to determine subsurface environmental conditions. Corrosion tests were performed in accordance with FDOT Structures Design Guidelines. Testing included

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pH, chlorides, sulfates and resistivity tests. The environmental classification for the substructures generally ranged from slightly to extremely aggressive for use of concrete; and moderately to extremely aggressive for use of steel (pH ranged from 4.3 to 7.2). The corrosion series test results are summarized on **Exhibit A-35** in **Appendix A**.

Considering the results of the corrosion series testing, the Structures Design Guidelines indicate that steel piles will either need corrosion protection, a sacrificial steel thickness, or should not be used. This may also need to be coordinated with the State Geotechnical Engineer for use of steel piles.

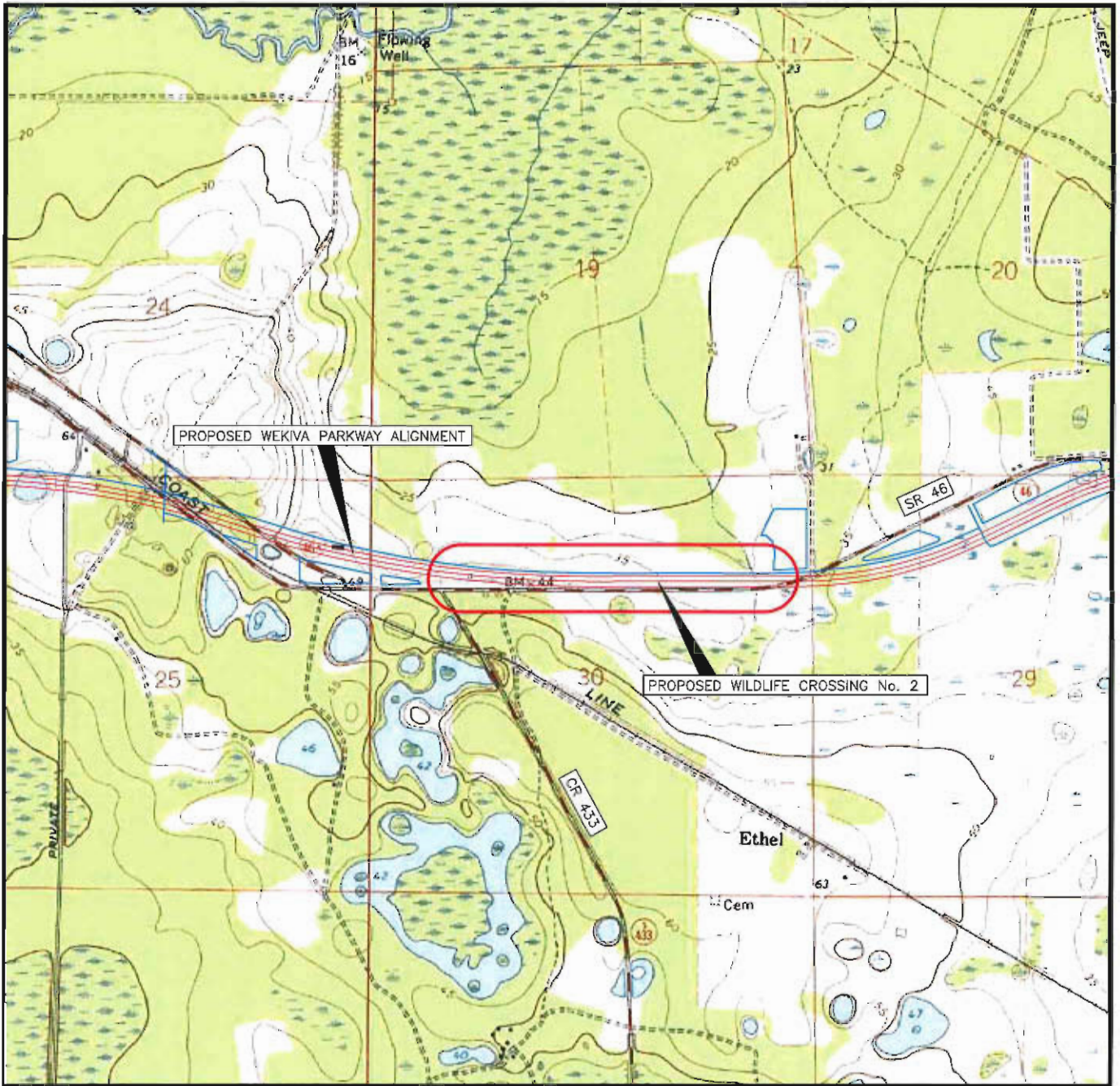
### **4.11 Artesian Conditions**

Based on review of the St. Johns River Water Management District potentiometric maps of the upper Floridan Aquifer for the project area, the potential artesian head elevation is estimated to be near +30 feet, NGVD at the bridge site. The ground surface elevations at the bridge site ranged from about +30 to +45 feet, NGVD. Artesian conditions are not anticipated to be a concern considering use of piles for each bridge foundation system.

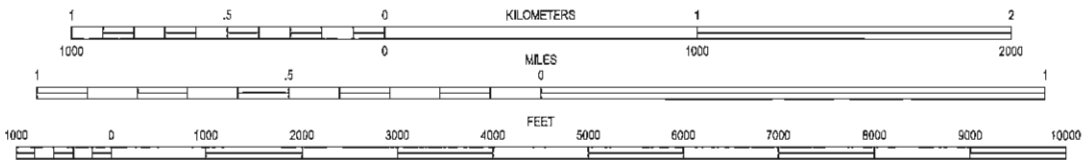
## **5.0 GENERAL COMMENTS**

The analysis and recommendations presented in this report are based upon the data obtained from the borings performed at the indicated locations and from other information discussed in this report. This report does not reflect variations that may occur between borings, across the site, or due to the modifying effects of construction or weather. The nature and extent of such variations may not become evident until during or after construction. If variations appear, we should be immediately notified so that further evaluation and supplemental recommendations can be provided.

**APPENDIX A**  
**FIELD EXPLORATION**



SCALE 1:24 000



CONTOUR INTERVAL 5 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929

SECTION: 30  
TOWNSHIP: 19 SOUTH  
RANGE: 29 EAST

SANFORD SW, FLORIDA  
ISSUED: 1965 REVISED: 1970  
7.5 MINUTE SERIES (QUADRANGLE)



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Project Mgr:	ENJ	Project No.	H1135080
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Checked By:	ENJ	File No.	H1135080-1
Approved By:	RGA	Date:	12-9-14

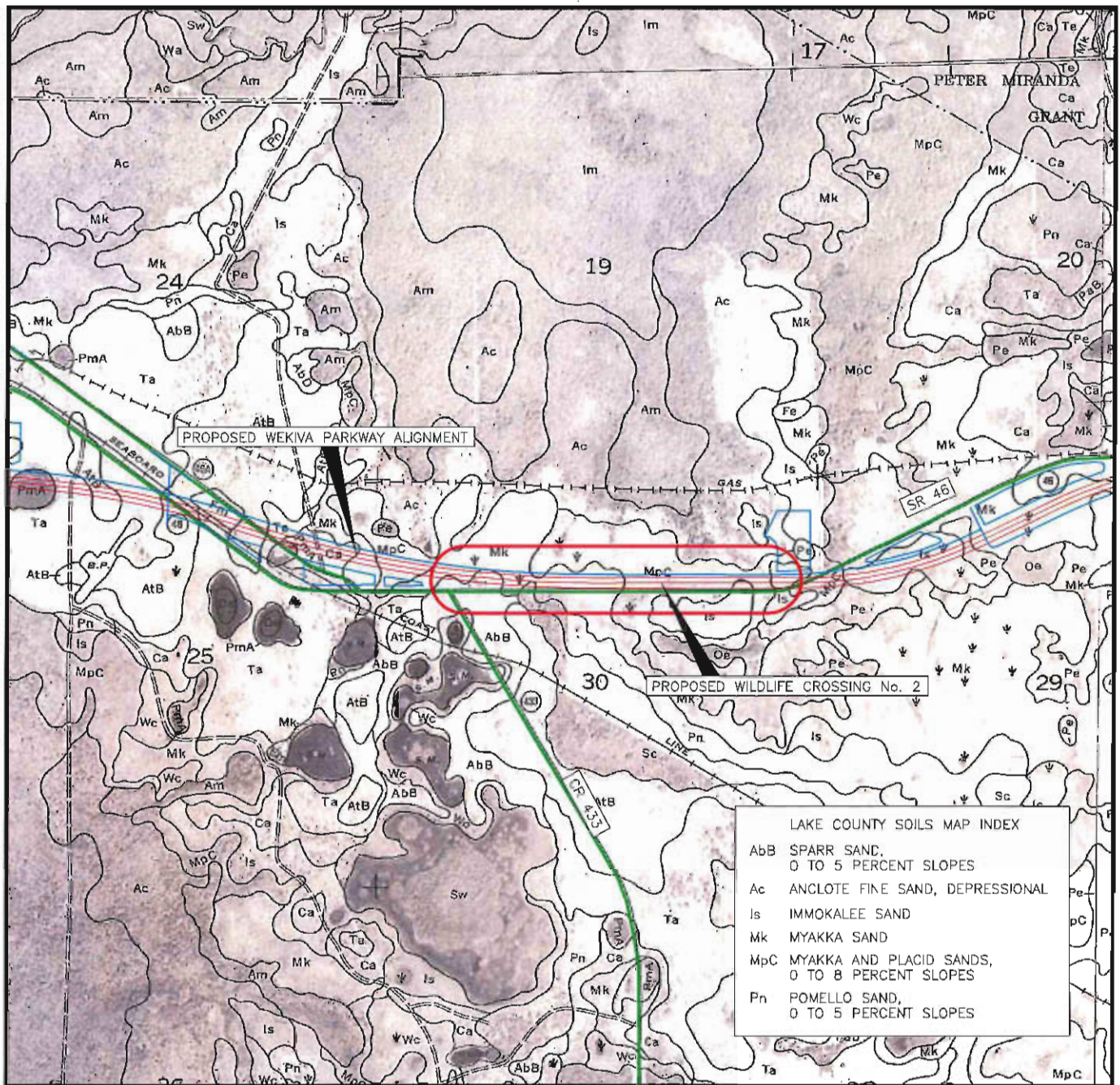
**Terracon**  
Consulting Engineers and Scientists

1675 LEE ROAD WINTER PARK, FLORIDA 32789  
PH. (407) 740-6110 FAX. (407) 740-6112

TOPOGRAPHIC VICINITY MAP  
GEOTECHNICAL ENGINEERING EVALUATION  
WEKIVA PARKWAY (SR 429 / SR 46)  
FROM OLD McDONALD RD. TO RIVER OAKS CIRCLE  
LAKE AND SEMINOLE COUNTIES, FLORIDA

EXHIBIT  
A-1

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LAKE COUNTY SOILS MAP INDEX	
AbB	SPARR SAND, 0 TO 5 PERCENT SLOPES
Ac	ANCLOTE FINE SAND, DEPRESSIONAL
Is	IMMOKALEE SAND
Mk	MYAKKA SAND
MpC	MYAKKA AND PLACID SANDS, 0 TO 8 PERCENT SLOPES
Pn	POMELLO SAND, 0 TO 5 PERCENT SLOPES

SCALE 1" = 2000'



U.S.D.A. SOIL SURVEY FOR LAKE COUNTY, FLORIDA  
ISSUED: 1971



SECTION: 30  
TOWNSHIP: 19 SOUTH  
RANGE: 29 EAST

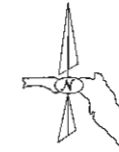
Project Mngr:	ENJ	Project No.	H1135080
Drawn By:	SW	Scale:	AS SHOWN
Checked By:	ENJ	File No.	H1135080-2
Approved By:	RGA	Date:	12-9-14

**Terracon**  
Consulting Engineers and Scientists

1675 LEE ROAD WINTER PARK, FLORIDA 32789  
PH. (407) 740-8110 FAX. (407) 740-8112

U.S.D.A. SOILS MAP  
GEOTECHNICAL ENGINEERING EVALUATION  
WEKIVA PARKWAY (SR 429 / SR 46)  
FROM OLD McDONALD RD. TO RIVER OAKS CIRCLE  
LAKE AND SEMINOLE COUNTIES, FLORIDA

EXHIBIT  
A-2

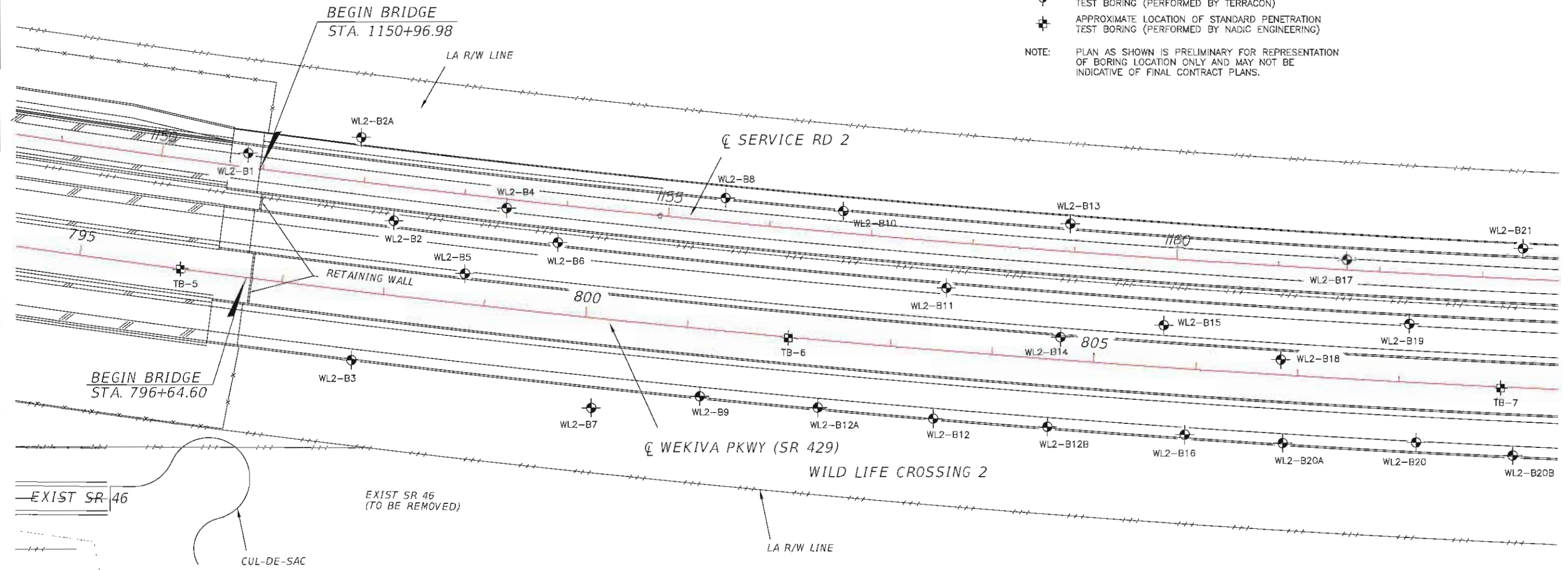


LOCATION PLAN  
SCALE: 1" = 100 FEET

LEGEND

- APPROXIMATE LOCATION OF STANDARD PENETRATION TEST BORING (PERFORMED BY TERRACON)
- APPROXIMATE LOCATION OF STANDARD PENETRATION TEST BORING (PERFORMED BY NADIC ENGINEERING)

NOTE: PLAN AS SHOWN IS PRELIMINARY FOR REPRESENTATION OF BORING LOCATION ONLY AND MAY NOT BE INDICATIVE OF FINAL CONTRACT PLANS.

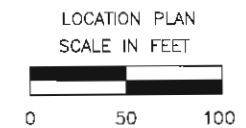
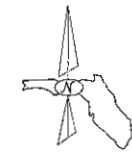


WILDLIFE CROSSING No. 2

REVISIONS						DRAWN BY: SW 8-26-14	CHECKED BY: ENJ 8-26-14	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF SPT BORINGS FOR STRUCTURES		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: WEKIVA PARKWAY (SR 429/SR 46) SECTION 6		SHEET NO.
						SR 429	LAKE SEMINOLE	238275-7-32-02					

RICHARD G. ACREE, P.E.  
P.E. LICENSE NUMBER 53962  
1675 LEE ROAD  
WINTER PARK, FLORIDA 32789  
TERRACON  
CERTIFICATE OF AUTHORIZATION No. 8830

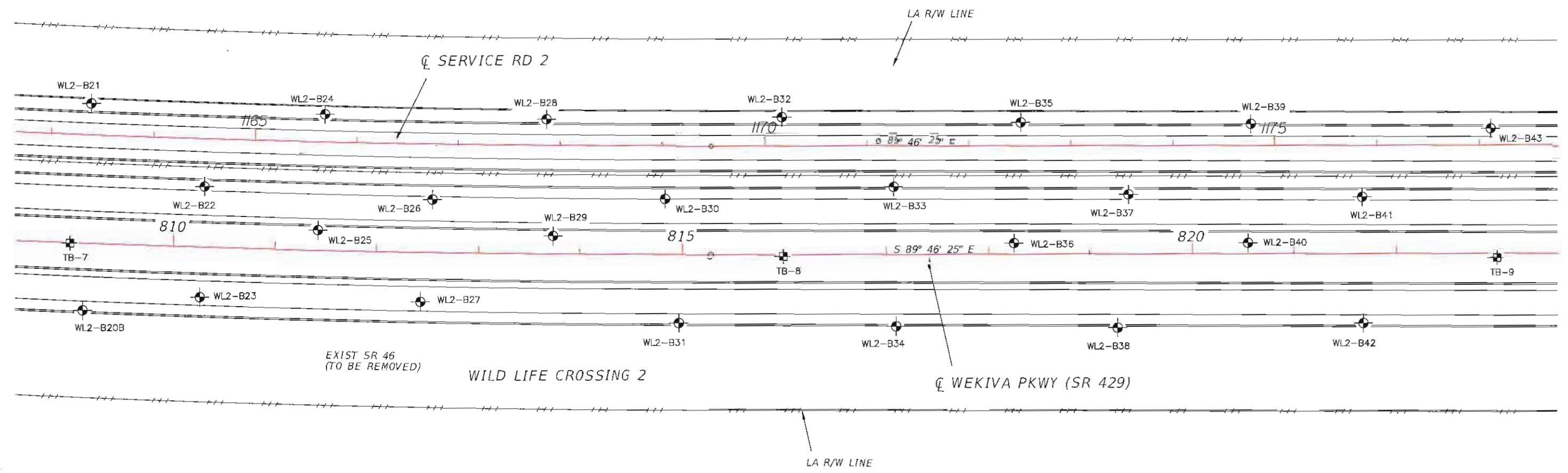
Aug26, 2014 9:02am



LEGEND

- APPROXIMATE LOCATION OF STANDARD PENETRATION TEST BORING (PERFORMED BY TERRACON)
- APPROXIMATE LOCATION OF STANDARD PENETRATION TEST BORING (PERFORMED BY NADIC ENGINEERING)

NOTE: PLAN AS SHOWN IS PRELIMINARY FOR REPRESENTATION OF BORING LOCATION ONLY AND MAY NOT BE INDICATIVE OF FINAL CONTRACT PLANS.



WILDLIFE CROSSING No. 2

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

RICHARD C. ACREE, P.E.  
P.E. LICENSE NUMBER 53962  
1675 LEE ROAD  
WINTER PARK, FLORIDA 32789  
TERRACON  
CERTIFICATE OF AUTHORIZATION No. 8830

DRAWN BY: SW 8-26-14	STATE OF FLORIDA	
CHECKED BY: ENJ 8-26-14	DEPARTMENT OF TRANSPORTATION	
DESIGNED BY:	ROAD NO. SR 429	COUNTY LAKE SEMINOLE
CHECKED BY:	FINANCIAL PROJECT ID 238275-7-32-02	

SHEET TITLE: REPORT OF SPT BORINGS FOR STRUCTURES	REF. DWG. NO.
PROJECT NAME: WEKIVA PARKWAY (SR 429/SR 46) SECTION 6	SHEET NO. -

Aug26, 2014-9:02am



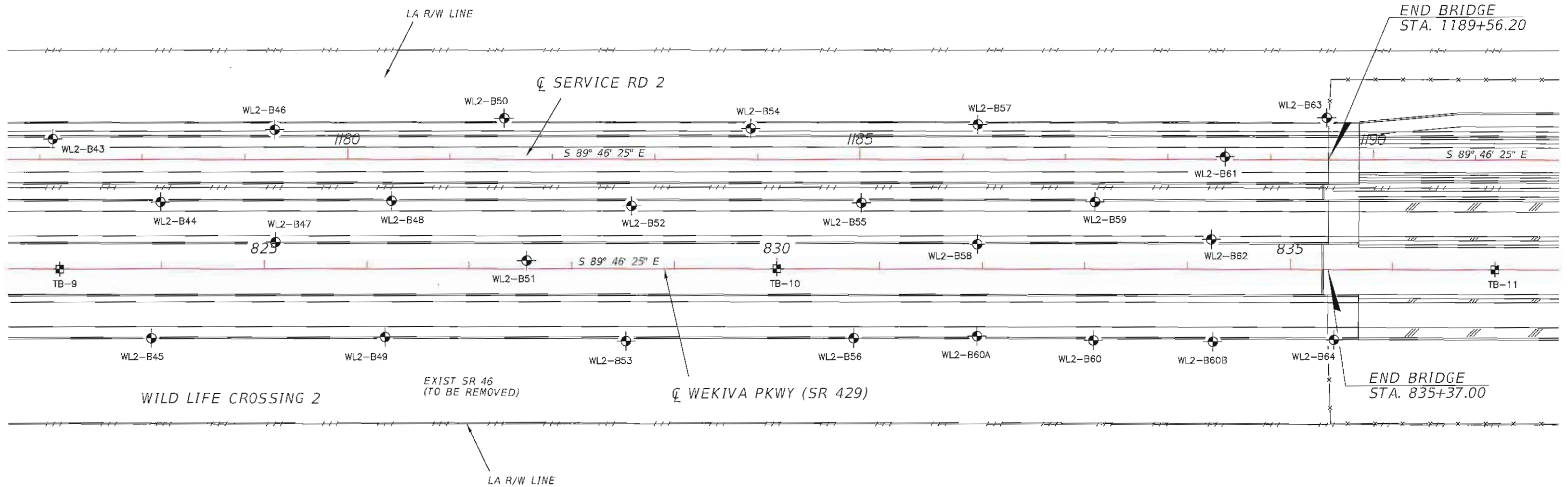


LOCATION PLAN  
SCALE IN FEET  
0 50 100

LEGEND

- ⊙ APPROXIMATE LOCATION OF STANDARD PENETRATION TEST BORING (PERFORMED BY TERRACON)
- ⊕ APPROXIMATE LOCATION OF STANDARD PENETRATION TEST BORING (PERFORMED BY NADIC ENGINEERING)

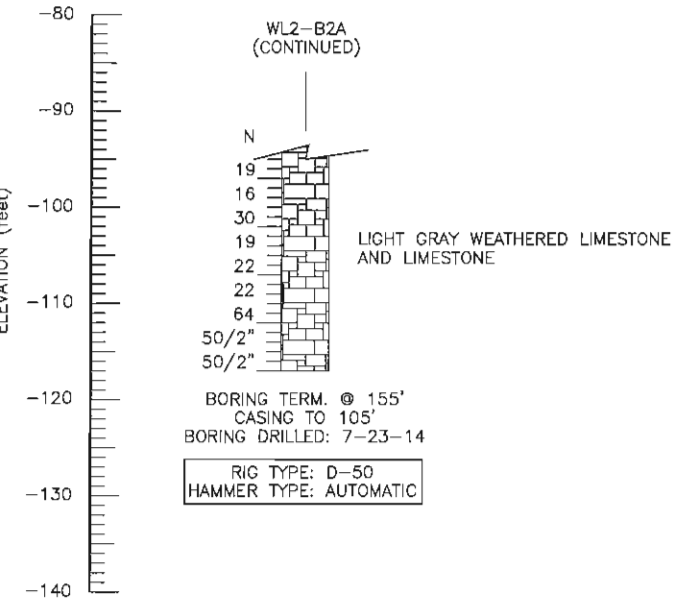
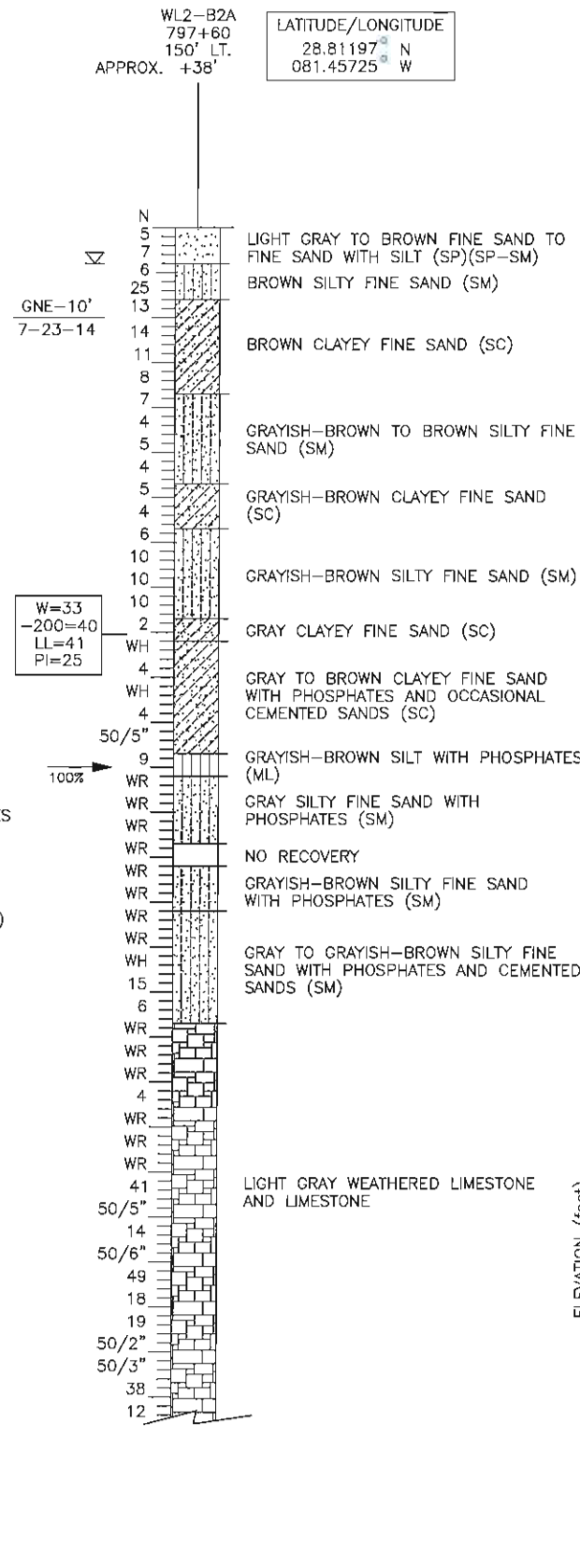
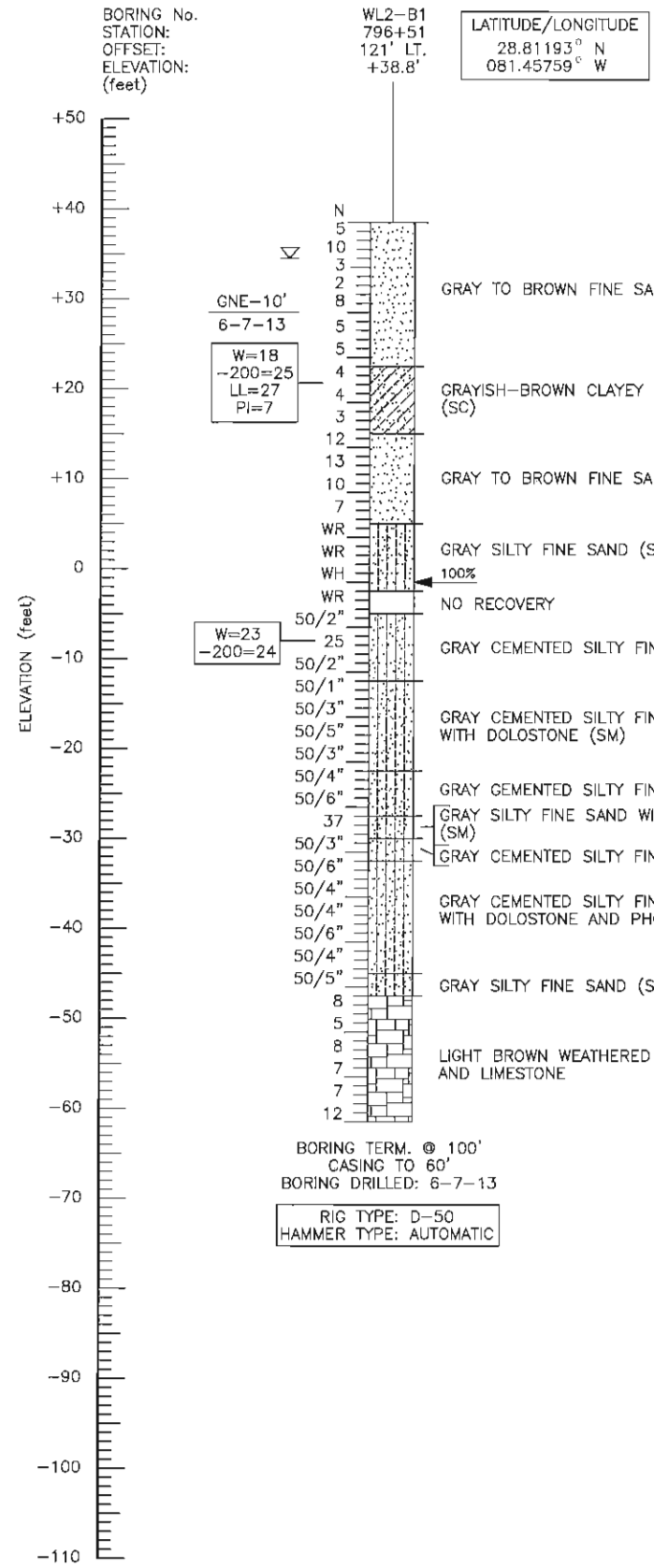
NOTE: PLAN AS SHOWN IS PRELIMINARY FOR REPRESENTATION OF BORING LOCATION ONLY AND MAY NOT BE INDICATIVE OF FINAL CONTRACT PLANS.



WILDLIFE CROSSING No. 2

REVISIONS						DRAWN BY: SW 8-26-14	STATE OF FLORIDA			SHEET TITLE: REPORT OF SPT BORINGS FOR STRUCTURES	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		DEPARTMENT OF TRANSPORTATION				
						CHECKED BY: ENJ 8-26-14	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
						DESIGNED BY:	SR 429	LAKE SEMINOLE	238275-7-32-02	WEKIVA PARKWAY (SR 429/SR 46)	-
						CHECKED BY:				SECTION 6	

RICHARD G. ACREE, P.E.  
P.E. LICENSE NUMBER 53962  
1675 LEE ROAD  
WINTER PARK, FLORIDA 32789  
TERRACON  
CERTIFICATE OF AUTHORIZATION No. 8830



- NOTES:**
- 1) SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS.
  - 2) UNLESS NOTED ON THE BORING PROFILE, ARTESIAN CONDITIONS WERE NOT OBSERVED BY THE DRILLER AT THE BORING LOCATIONS. BASED ON REVIEW OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT POTENTIOMETRIC MAPS OF THE FLORIDAN AQUIFER FOR THE PROJECT AREA, THE POTENTIAL ARTESIAN HEAD ELEVATION IS ESTIMATED TO BE +30 FEET, (NGVD).
  - 3) STATIONS AND OFFSETS REFERENCE THE BASELINE OF SURVEY OF SR 429 (WEKIVA PARKWAY).
  - 4) BORING LOCATIONS AND ELEVATIONS SURVEYED BY MCKIM AND CREED, UNLESS OTHERWISE NOTED.

	SAND, SAND WITH SILT		SANDY CLAY
	SILTY SAND		CLAY
	CLAYEY SAND		SILT
	DOLOSTONE, LIMESTONE		SANDY SILT

- (SP) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL
- ▼ ENCOUNTERED GROUNDWATER LEVEL  
 6-13-14 DATE NOTED
- ▽ ESTIMATED NORMAL SEASONAL HIGH GROUNDWATER LEVEL
- GNE-10' GROUNDWATER LEVEL NOT ENCOUNTERED TO DEPTH OF 10 FEET

W=0	NATURAL MOISTURE CONTENT (%)
-200=0	FINES PASSING No. 200 SIEVE (%)
LL=0	LIQUID LIMIT (%)
PI=0	PLASTICITY INDEX
NP	NON-PLASTIC

- ← 100% LOSS OF DRILLING FLUID CIRCULATION (PERCENT NOTED)
- N STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT UNLESS OTHERWISE NOTED
- 50/6" NUMBER OF BLOWS REQUIRED (50) TO ADVANCE SAMPLE SPOON (6) INCHES
- WR WEIGHT OF DRILL ROD SUFFICIENT TO ADVANCE SAMPLE SPOON
- WH WEIGHT OF ROD AND HAMMER SUFFICIENT TO ADVANCE SAMPLE SPOON

**STANDARD PENETRATION TEST DATA**  
**AUTOMATIC HAMMER**

SPOON INSIDE DIA.	1 3/8 in.
SPOON OUTSIDE DIA.	2 in.
ASTM STANDARD AUTOMATIC HAMMER	
AVG. HAMMER DROP	30 in.
HAMMER WEIGHT	140 lbs.

**GRANULAR MATERIALS**

RELATIVE DENSITY	(BLOWS/FOOT)	SPT
VERY LOOSE	LESS THAN 3	
LOOSE	3-8	
MEDIUM DENSE	8-24	
DENSE	24-40	
VERY DENSE	GREATER THAN 40	

**SILTS AND CLAYS**

CONSISTENCY	(BLOWS/FOOT)	SPT
VERY SOFT	LESS THAN 1	
SOFT	1-3	
FIRM	3-6	
STIFF	6-12	
VERY STIFF	12-24	
HARD	GREATER THAN 24	

**ENVIRONMENTAL CLASSIFICATION:**

SUPERSTRUCTURE: N/A

SUBSTRUCTURE: CONCRETE: MODERATELY AGGRESSIVE  
 STEEL: EXTREMELY AGGRESSIVE  
 pH=5.8

**WILDLIFE CROSSING No. 2**

REVISIONS						DRAWN BY: SW 12-3-14	CHECKED BY: ENJ 12-3-14	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: <b>REPORT OF SPT BORINGS FOR STRUCTURES</b>	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 429	LAKE SEMINOLE	238275-7-32-02	WEKIVA PARKWAY (SR 429/SR 46)			
									SECTION 6			

**RICHARD G. ACREE, P.E.**  
 P.E. LICENSE NUMBER 53962  
 1675 LEE ROAD  
 WINTER PARK, FLORIDA 32789  
 TERRACON  
 CERTIFICATE OF AUTHORIZATION No. 8830

BORING No.  
STATION:  
OFFSET:  
ELEVATION:  
(feet)

WL2-B3  
797+77  
67' RT.  
+42.6'

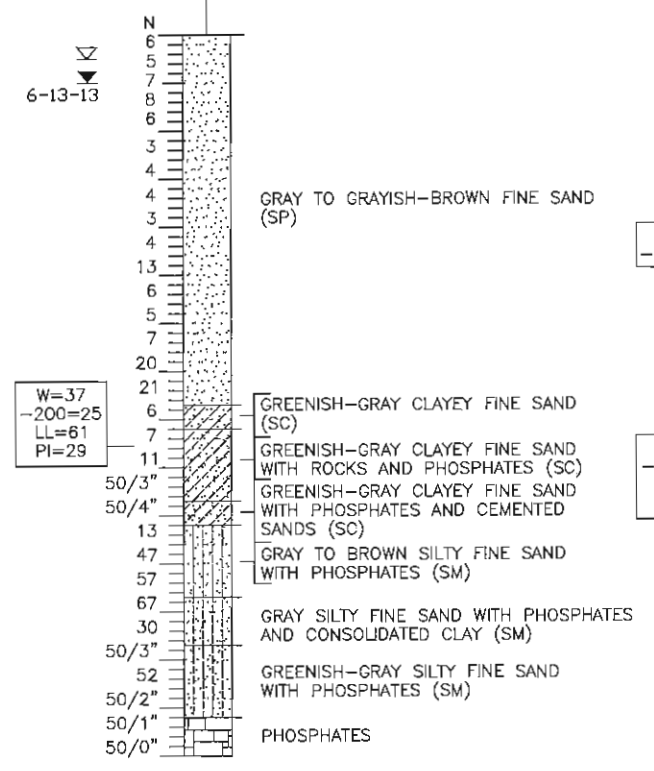
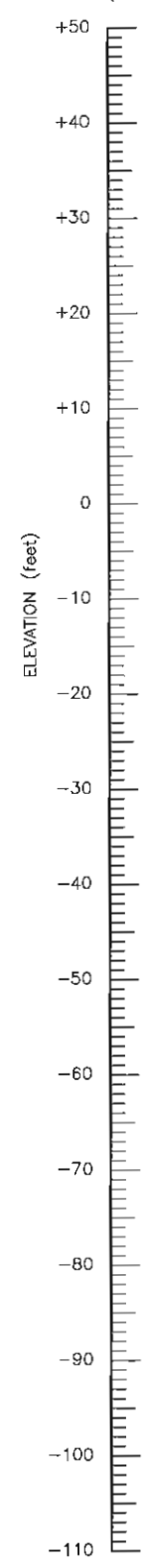
LATITUDE/LONGITUDE  
28.81140° N  
081.45729° W

WL2-B2  
798+02  
73' LT.  
+43.7'

LATITUDE/LONGITUDE  
28.81175° N  
081.45715° W

WL2-B5  
798+78  
30' LT.  
+43.0'

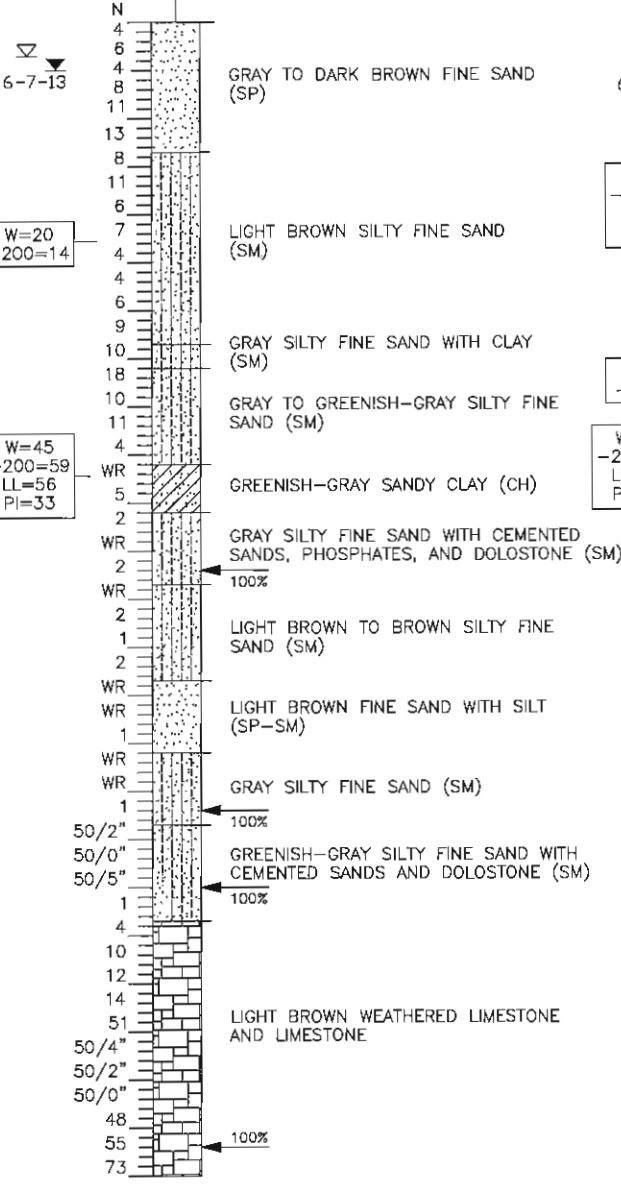
LATITUDE/LONGITUDE  
28.81165° N  
081.45693° W



W=37  
-200=25  
LL=61  
PI=29

BORING TERM. @ 75'  
NO CASING  
BORING DRILLED: 6-13-13

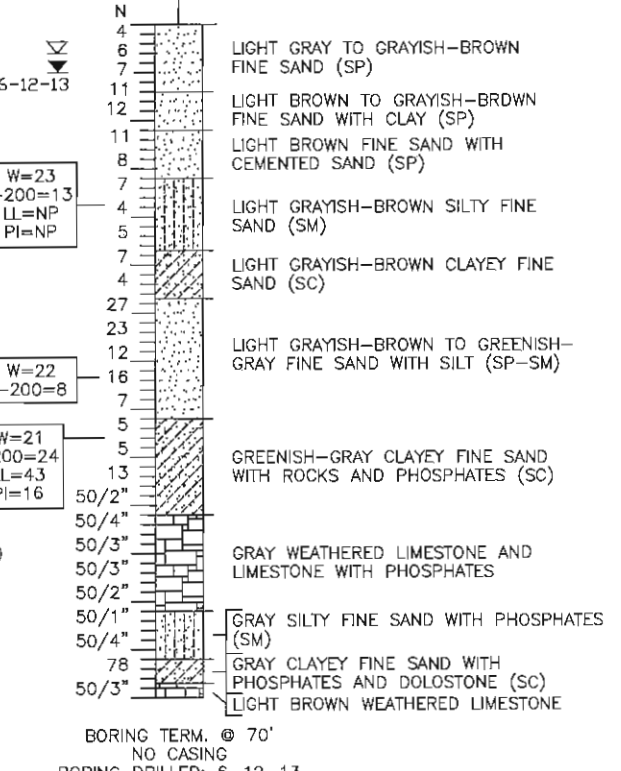
RIG TYPE: D-50  
HAMMER TYPE: AUTOMATIC



W=45  
-200=59  
LL=56  
PI=33

BORING TERM. @ 120'  
CASING TO 110'  
BORING DRILLED: 6-7-13

RIG TYPE: D-50  
HAMMER TYPE: AUTOMATIC



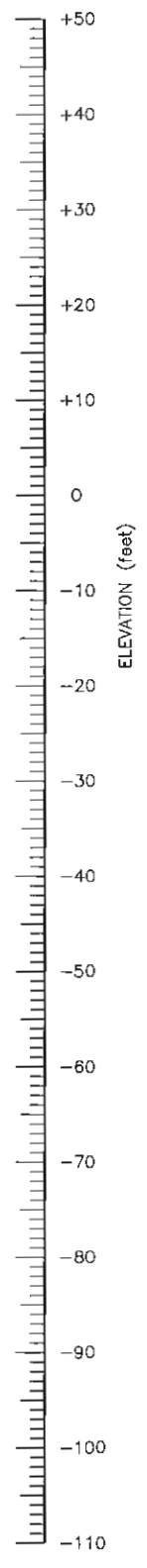
W=23  
-200=13  
LL=NP  
PI=NP

W=22  
-200=8

W=21  
-200=24  
LL=43  
PI=16

BORING TERM. @ 70'  
NO CASING  
BORING DRILLED: 6-12-13

RIG TYPE: D-50  
HAMMER TYPE: AUTOMATIC



- SAND, SAND WITH SILT
- SILTY SAND
- CLAYEY SAND
- DOLOSTONE, LIMESTONE
- SANDY CLAY
- CLAY
- SILT
- SANDY SILT
- (SP) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL
- ENCOUNTERED GROUNDWATER LEVEL DATE NOTED
- ESTIMATED NORMAL SEASONAL HIGH GROUNDWATER LEVEL
- GNE-10' GROUNDWATER LEVEL NOT ENCOUNTERED TO DEPTH OF 10 FEET
- W=0  
-200=0  
LL=0  
PI=0  
NP NATURAL MOISTURE CONTENT (%)  
FINES PASSING No. 200 SIEVE (%)  
LIQUID LIMIT (%)  
PLASTICITY INDEX  
NON-PLASTIC
- 100% LOSS OF DRILLING FLUID CIRCULATION (PERCENT NOTED)
- N STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT UNLESS OTHERWISE NOTED
- 50/6" NUMBER OF BLOWS REQUIRED (50) TO ADVANCE SAMPLE SPOON (6) INCHES
- WR WEIGHT OF DRILL ROD SUFFICIENT TO ADVANCE SAMPLE SPOON
- WH WEIGHT OF ROD AND HAMMER SUFFICIENT TO ADVANCE SAMPLE SPOON

STANDARD PENETRATION TEST DATA  
AUTOMATIC HAMMER

SPOON INSIDE DIA.	1 3/8 in.
SPOON OUTSIDE DIA.	2 in.
ASTM STANDARD AUTOMATIC HAMMER	
AVG. HAMMER DROP	30 in.
HAMMER WEIGHT	140 lbs.

GRANULAR MATERIALS

RELATIVE DENSITY	SPT (BLOWS/FOOT)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40

SILTS AND CLAYS

CONSISTENCY	SPT (BLOWS/FOOT)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

ENVIRONMENTAL CLASSIFICATION:  
SUPERSTRUCTURE: N/A  
SUBSTRUCTURE: CONCRETE: MODERATELY AGGRESSIVE  
STEEL: EXTREMELY AGGRESSIVE  
pH=5.8

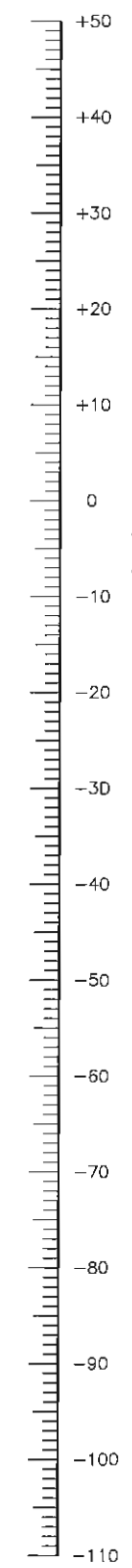
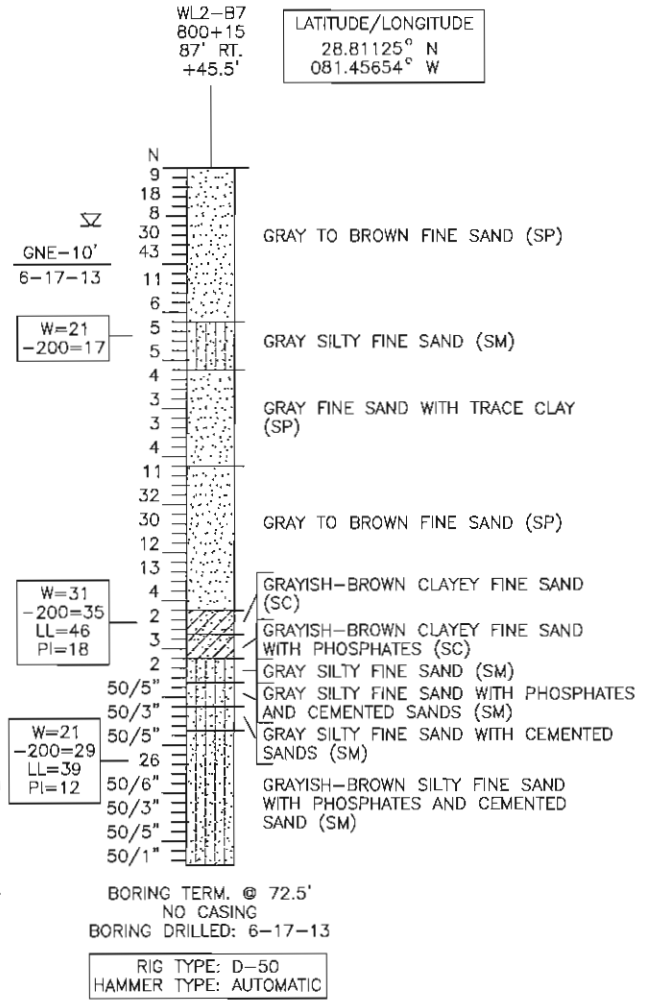
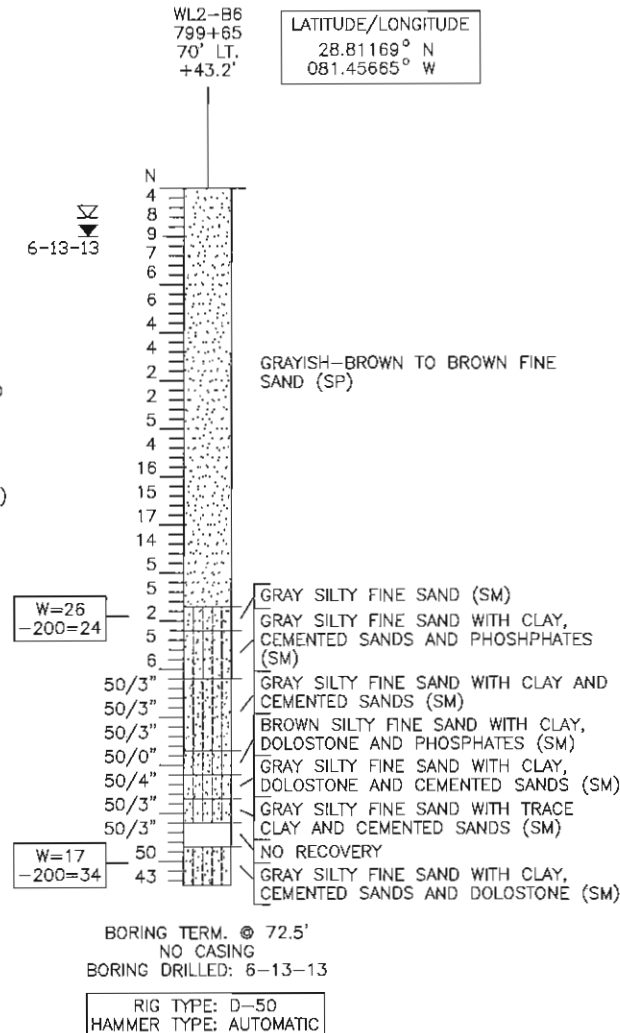
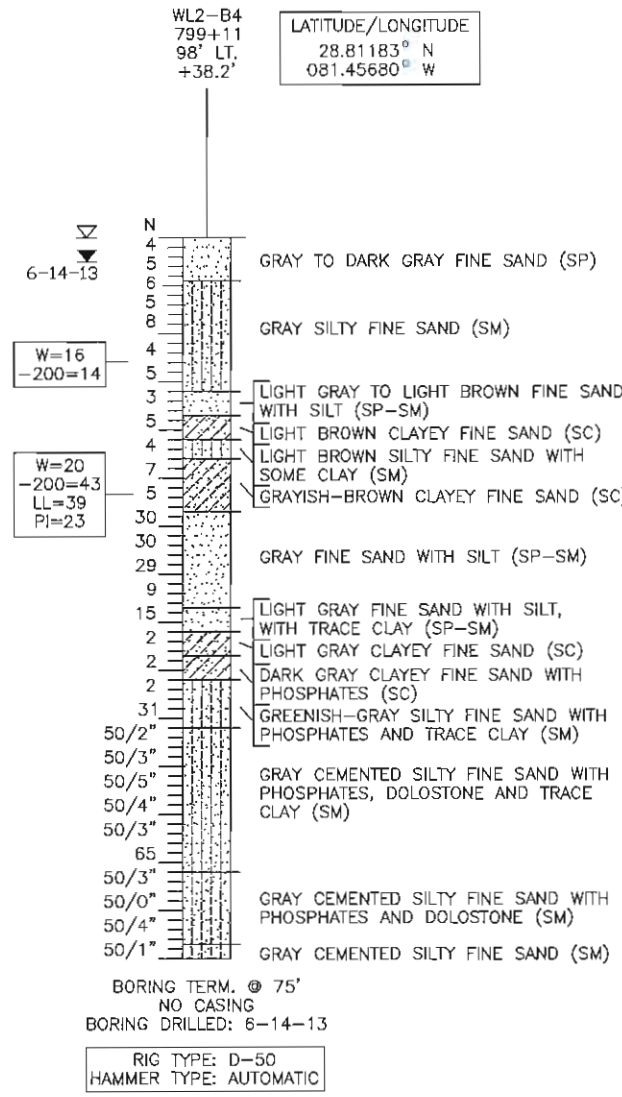
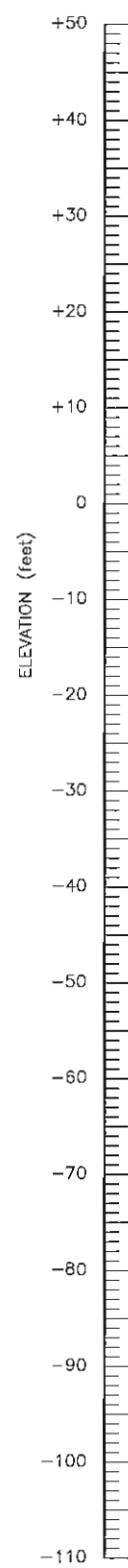
- NOTES:
- SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS.
  - UNLESS NOTED ON THE BORING PROFILE, ARTESIAN CONDITIONS WERE NOT OBSERVED BY THE DRILLER AT THE BORING LOCATIONS. BASED ON REVIEW OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT POTENTIOMETRIC MAPS OF THE FLORIDAN AQUIFER FOR THE PROJECT AREA, THE POTENTIAL ARTESIAN HEAD ELEVATION IS ESTIMATED TO BE +30 FEET, (NGVD).
  - STATIONS AND OFFSETS REFERENCE THE BASELINE OF SURVEY OF SR 429 (WEKIVA PARKWAY).
  - BORING LOCATIONS AND ELEVATIONS SURVEYED BY MCKIM AND CREED, UNLESS OTHERWISE NOTED.

WILDLIFE CROSSING No. 2

REVISIONS						DRAWN BY: SW 12-3-14	CHECKED BY: ENJ 12-3-14	DESIGNED BY: SR 429	CHECKED BY:	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF SPT BORINGS FOR STRUCTURES		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	WEKIVA PARKWAY (SR 429/SR 46) SECTION 6	
										SR 429	LAKE SEMINOLE	238275-7-32-02			

RICHARD G. ACREE, P.E.  
P.E. LICENSE NUMBER 53962  
1675 LEE ROAD  
WINTER PARK, FLORIDA 32789  
TERRACON  
CERTIFICATE OF AUTHORIZATION No. 8830

BORING No.  
STATION:  
OFFSET:  
ELEVATION:  
(feet)



	SAND, SAND WITH SILT		SILTY SAND
	CLAYEY SAND		SANDY CLAY
	DOLOSTONE, LIMESTONE		CLAY
	SILTY SILT		SILT
	SANDY SILT		SAND, SAND WITH SILT

(SP) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL

ENCOUNTERED GROUNDWATER LEVEL DATE NOTED

ESTIMATED NORMAL SEASONAL HIGH GROUNDWATER LEVEL

GROUNDWATER LEVEL NOT ENCOUNTERED TO DEPTH OF 10 FEET

NATURAL MOISTURE CONTENT (%)  
FINES PASSING No. 200 SIEVE (%)  
LIQUID LIMIT (%)  
PLASTICITY INDEX  
NON-PLASTIC

100% LOSS OF DRILLING FLUID CIRCULATION (PERCENT NOTED)

N STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT UNLESS OTHERWISE NOTED

50/6" NUMBER OF BLOWS REQUIRED (50) TO ADVANCE SAMPLE SPOON (6) INCHES

WR WEIGHT OF DRILL ROD SUFFICIENT TO ADVANCE SAMPLE SPOON

WH WEIGHT OF ROD AND HAMMER SUFFICIENT TO ADVANCE SAMPLE SPOON

STANDARD PENETRATION TEST DATA  
AUTOMATIC HAMMER

SPOON INSIDE DIA.	1 3/8 in.
SPOON OUTSIDE DIA.	2 in.
ASTM STANDARD AUTOMATIC HAMMER	
AVG. HAMMER DROP	30 in.
HAMMER WEIGHT	140 lbs.

GRANULAR MATERIALS

RELATIVE DENSITY	SPT (BLOWS/FOOT)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40

SILTS AND CLAYS

CONSISTENCY	SPT (BLOWS/FOOT)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

ENVIRONMENTAL CLASSIFICATION:

SUPERSTRUCTURE: N/A

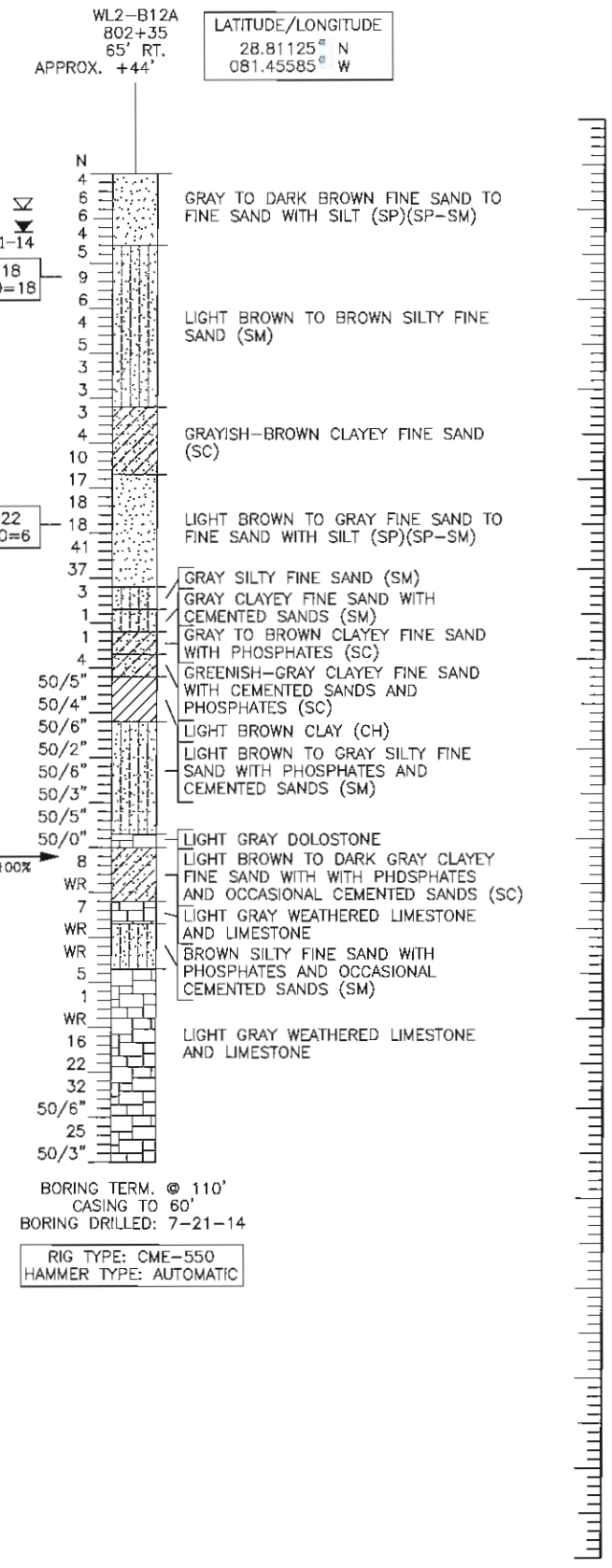
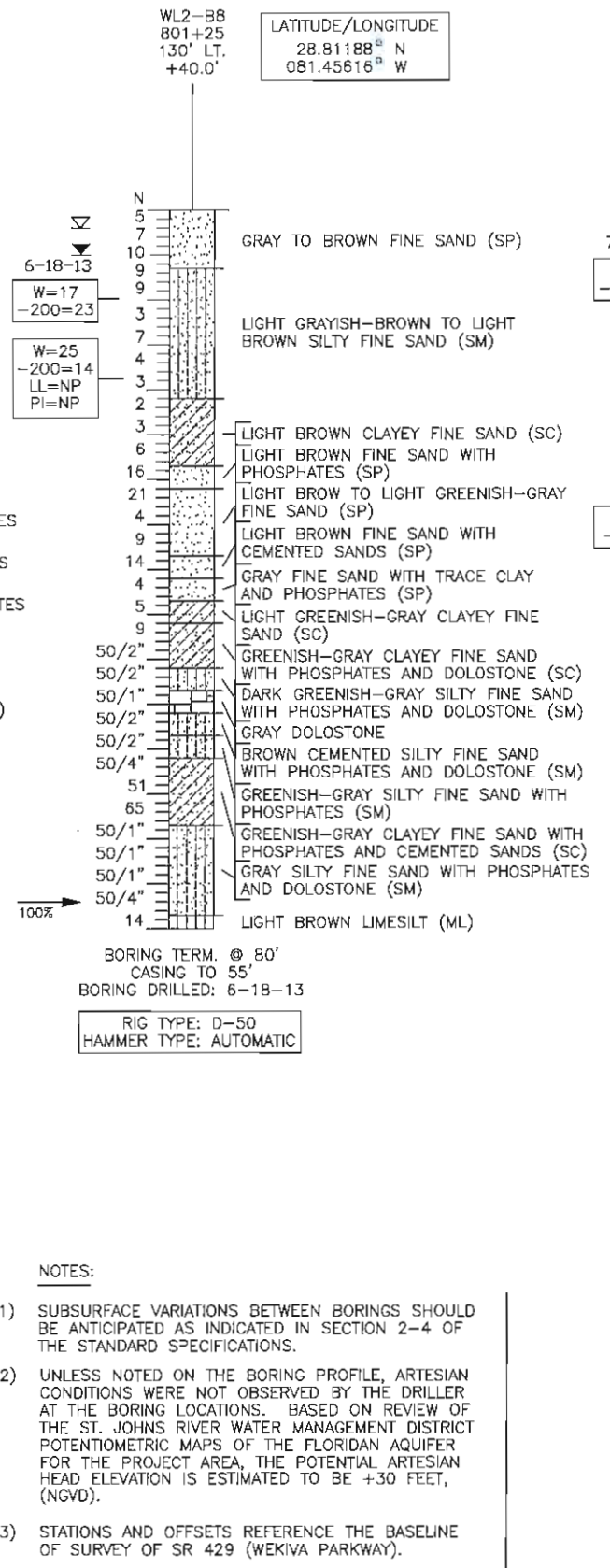
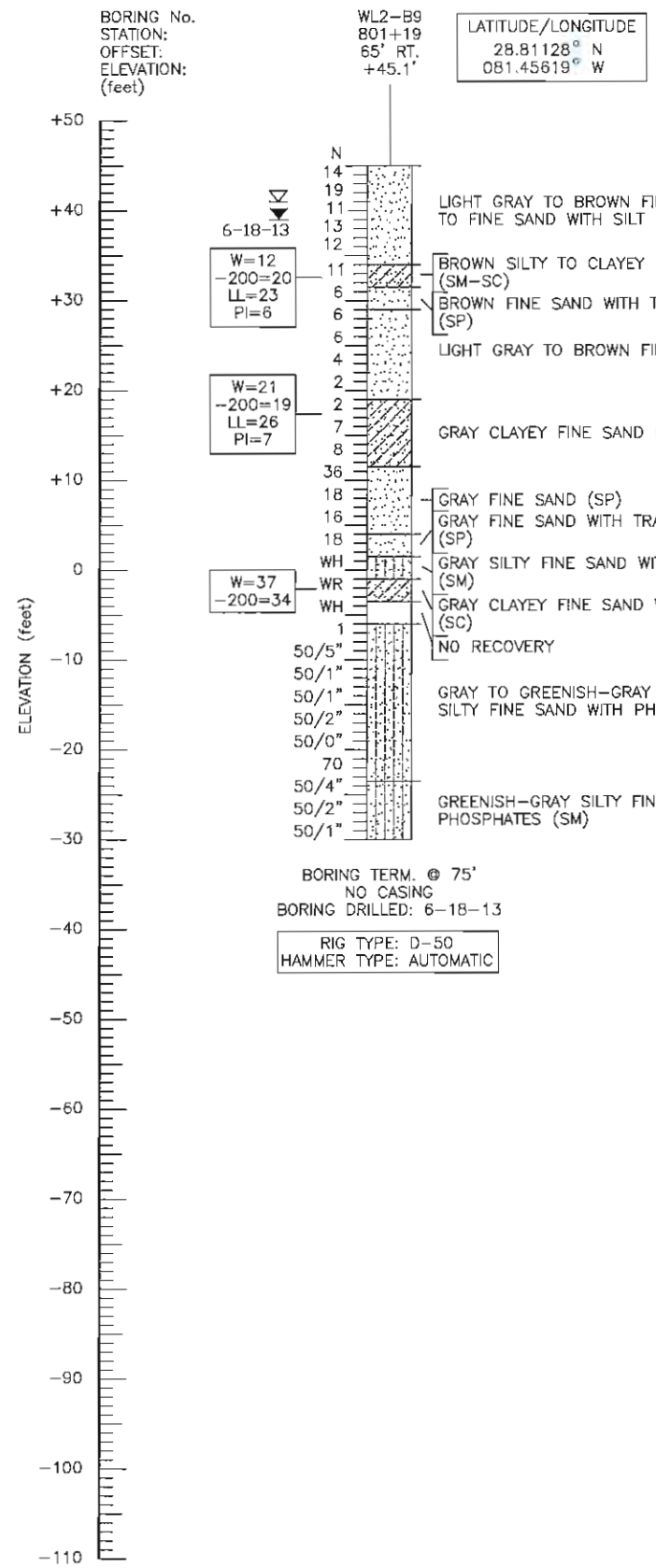
SUBSTRUCTURE: CONCRETE: MODERATELY AGGRESSIVE  
STEEL: EXTREMELY AGGRESSIVE  
pH=6.1

- NOTES:
- SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS.
  - UNLESS NOTED ON THE BORING PROFILE, ARTESIAN CONDITIONS WERE NOT OBSERVED BY THE DRILLER AT THE BORING LOCATIONS. BASED ON REVIEW OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT POTENTIOMETRIC MAPS OF THE FLORIDAN AQUIFER FOR THE PROJECT AREA, THE POTENTIAL ARTESIAN HEAD ELEVATION IS ESTIMATED TO BE +30 FEET, (NGVD).
  - STATIONS AND OFFSETS REFERENCE THE BASELINE OF SURVEY OF SR 429 (WEKIVA PARKWAY).
  - BORING LOCATIONS AND ELEVATIONS SURVEYED BY MCKIM AND CREED, UNLESS OTHERWISE NOTED.

Dec03, 2014-10:27am

WILDLIFE CROSSING No. 2

REVISIONS						DRAWN BY: SW 12-3-14	CHECKED BY: ENJ 12-3-14	DESIGNED BY: SR 429	CHECKED BY:	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF SPT BORINGS FOR STRUCTURES	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
										SR 429	LAKE SEMINOLE	238275-7-32-02	WEKIVA PARKWAY (SR 429/SR 46) SECTION 6	-

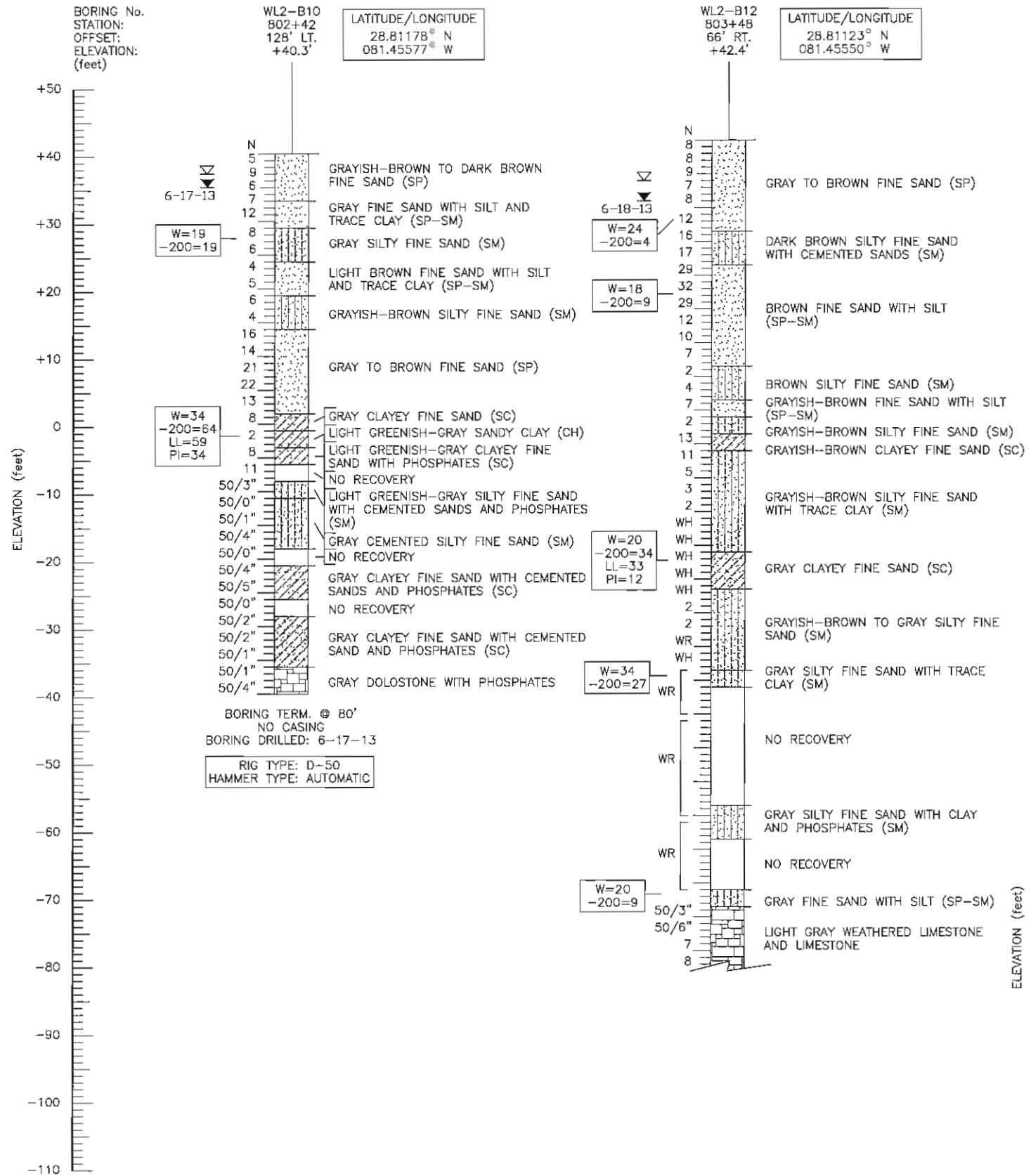


	SAND, SAND WITH SILT		SILTY SAND		CLAYEY SAND		SANDY CLAY		CLAY		SILT		SANDY SILT
(SP)	UNIFIED SOIL CLASSIFICATION GROUP SYMBOL												
	ENCOUNTERED GROUNDWATER LEVEL												
	DATE NOTED												
	ESTIMATED NORMAL SEASONAL HIGH GROUNDWATER LEVEL												
	GROUNDWATER LEVEL NOT ENCOUNTERED TO DEPTH OF 10 FEET												
W=0	NATURAL MOISTURE CONTENT (%)												
-200=0	FINES PASSING No. 200 SIEVE (%)												
LL=0	LIQUID LIMIT (%)												
PI=0	PLASTICITY INDEX												
NP	NON-PLASTIC												
	LOSS OF DRILLING FLUID CIRCULATION (PERCENT NOTED)												
N	STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT UNLESS OTHERWISE NOTED												
50/6"	NUMBER OF BLOWS REQUIRED (50) TO ADVANCE SAMPLE SPOON (6) INCHES												
WR	WEIGHT OF DRILL ROD SUFFICIENT TO ADVANCE SAMPLE SPOON												
WH	WEIGHT OF ROD AND HAMMER SUFFICIENT TO ADVANCE SAMPLE SPOON												
STANDARD PENETRATION TEST DATA AUTOMATIC HAMMER													
SPOON INSIDE DIA.												1 3/8 in.	
SPOON OUTSIDE DIA.												2 in.	
ASTM STANDARD AUTOMATIC HAMMER													
AVG. HAMMER DROP												30 in.	
HAMMER WEIGHT												140 lbs.	
GRANULAR MATERIALS													
RELATIVE DENSITY												SPT (BLOWS/FOOT)	
VERY LOOSE												LESS THAN 3	
LOOSE												3-8	
MEDIUM DENSE												8-24	
DENSE												24-40	
VERY DENSE												GREATER THAN 40	
SILTS AND CLAYS													
CONSISTENCY												SPT (BLOWS/FOOT)	
VERY SOFT												LESS THAN 1	
SOFT												1-3	
FIRM												3-6	
STIFF												6-12	
VERY STIFF												12-24	
HARD												GREATER THAN 24	
ENVIRONMENTAL CLASSIFICATION:													
SUPERSTRUCTURE: N/A													
SUBSTRUCTURE: CONCRETE: MODERATELY AGGRESSIVE													
STEEL: EXTREMELY AGGRESSIVE													
pH=6.1													

- NOTES:
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  - BORING LOCATIONS AND ELEVATIONS SURVEYED BY MCKIM AND CREED, UNLESS OTHERWISE NOTED.

WILDLIFE CROSSING No. 2

REVISIONS						RICHARD G. ACREE, P.E. P.E. LICENSE NUMBER 53962 1675 LEE ROAD WINTER PARK, FLORIDA 32789 TERRACON CERTIFICATE OF AUTHORIZATION No. 8830	DRAWN BY: SW 12-3-14 CHECKED BY: ENJ 12-3-14 DESIGNED BY: SR 429 CHECKED BY:	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: <b>REPORT OF SPT BORINGS FOR STRUCTURES</b> PROJECT NAME: <b>WEKIVA PARKWAY (SR 429/SR 46)</b> <b>SECTION 6</b>	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 429	LAKE SEMINOLE	238275-7-32-02				



- NOTES:**
- SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS.
  - UNLESS NOTED ON THE BORING PROFILE, ARTESIAN CONDITIONS WERE NOT OBSERVED BY THE DRILLER AT THE BORING LOCATIONS. BASED ON REVIEW OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT POTENTIOMETRIC MAPS OF THE FLORIDAN AQUIFER FOR THE PROJECT AREA, THE POTENTIAL ARTESIAN HEAD ELEVATION IS ESTIMATED TO BE +30 FEET, (NGVD).
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  - BORING LOCATIONS AND ELEVATIONS SURVEYED BY MCKIM AND CREED, UNLESS OTHERWISE NOTED.

	SAND, SAND WITH SILT		SANDY CLAY
	SILTY SAND		CLAY
	CLAYEY SAND		SILT
	DOLOSTONE, LIMESTONE		SANDY SILT

(SP) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL

▼ ENCOUNTERED GROUNDWATER LEVEL DATE NOTED

▬ ESTIMATED NORMAL SEASONAL HIGH GROUNDWATER LEVEL

GNE-10' GROUNDWATER LEVEL NOT ENCOUNTERED TO DEPTH OF 10 FEET

W=0 NATURAL MOISTURE CONTENT (%)  
 -200=0 FINES PASSING No. 200 SIEVE (%)  
 LL=0 LIQUID LIMIT (%)  
 PI=0 PLASTICITY INDEX  
 NP NON-PLASTIC

← 100% LOSS OF DRILLING FLUID CIRCULATION (PERCENT NOTED)

N STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT UNLESS OTHERWISE NOTED

50/6" NUMBER OF BLOWS REQUIRED (50) TO ADVANCE SAMPLE SPOON (6) INCHES

WR WEIGHT OF DRILL ROD SUFFICIENT TO ADVANCE SAMPLE SPOON

WH WEIGHT OF ROD AND HAMMER SUFFICIENT TO ADVANCE SAMPLE SPOON

**STANDARD PENETRATION TEST DATA**  
 AUTOMATIC HAMMER

SPOON INSIDE DIA.	1 3/8 in.
SPOON OUTSIDE DIA.	2 in.
ASTM STANDARD AUTOMATIC HAMMER	
AVG. HAMMER DROP	30 in.
HAMMER WEIGHT	140 lbs.

**GRANULAR MATERIALS**

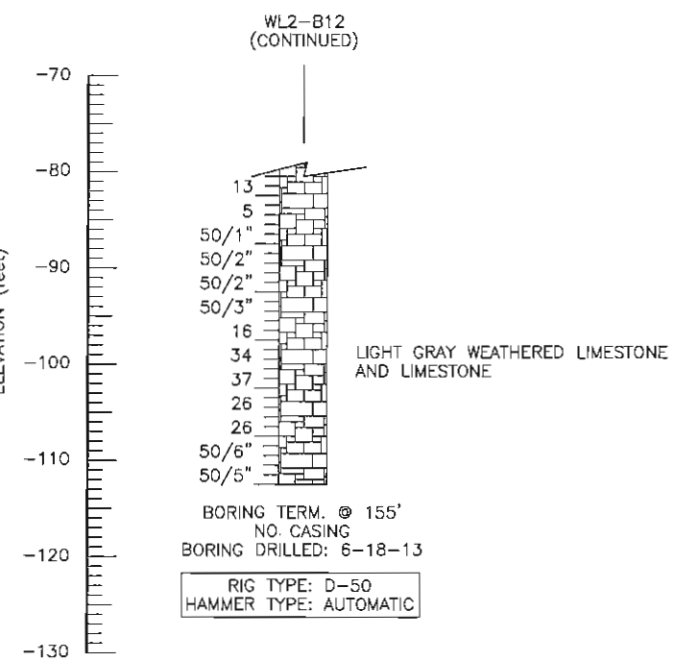
RELATIVE DENSITY	SPT (BLOWS/FOOT)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40

**SILTS AND CLAYS**

CONSISTENCY	SPT (BLOWS/FOOT)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

**ENVIRONMENTAL CLASSIFICATION:**

SUPERSTRUCTURE: N/A  
 SUBSTRUCTURE: CONCRETE: MODERATELY AGGRESSIVE  
 STEEL: EXTREMELY AGGRESSIVE  
 pH=5.9



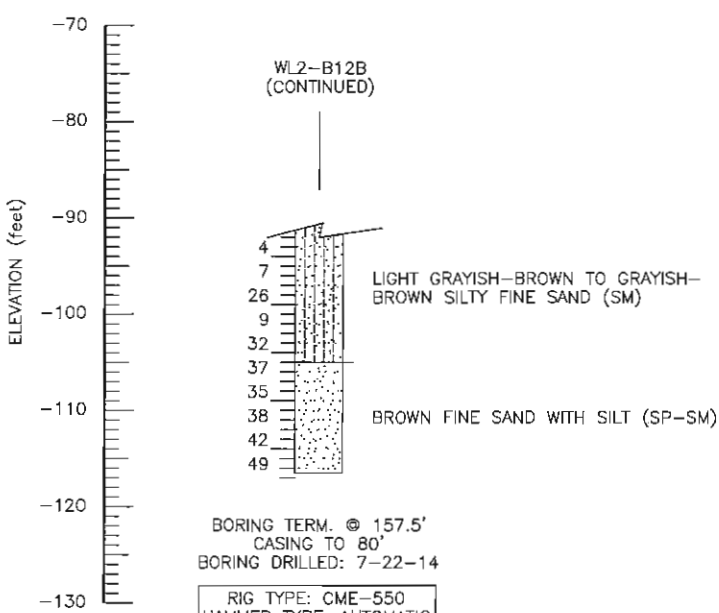
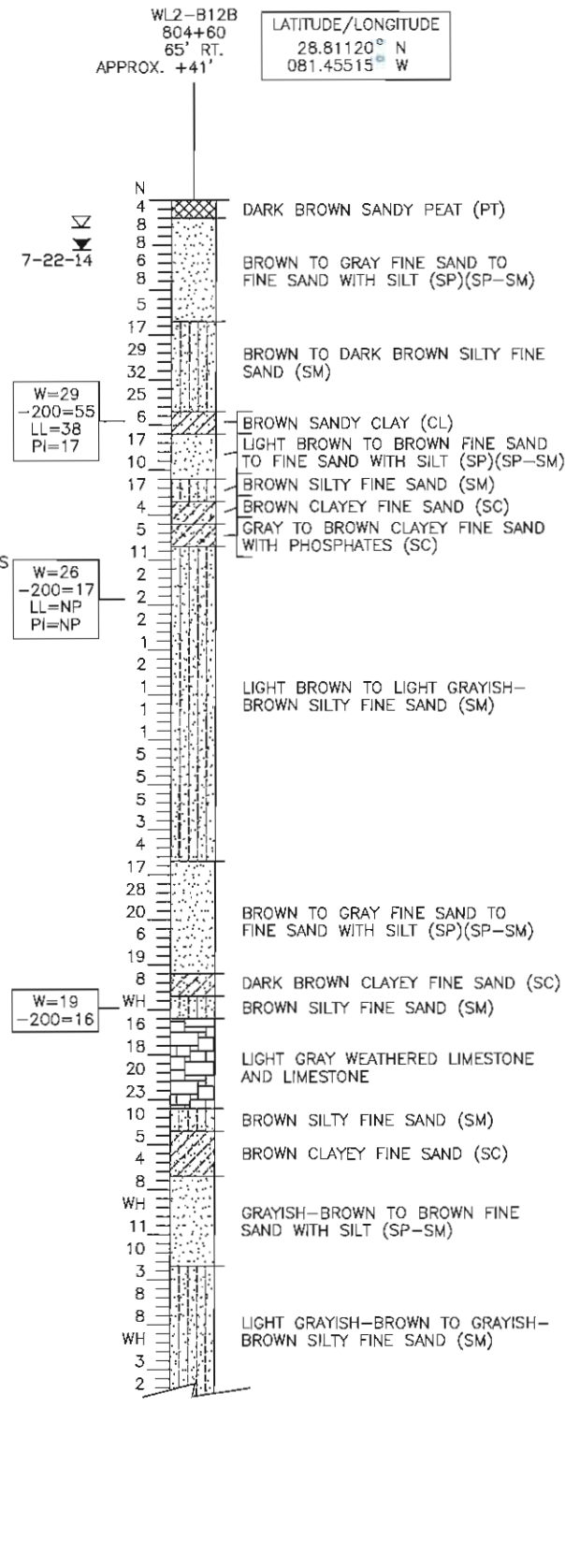
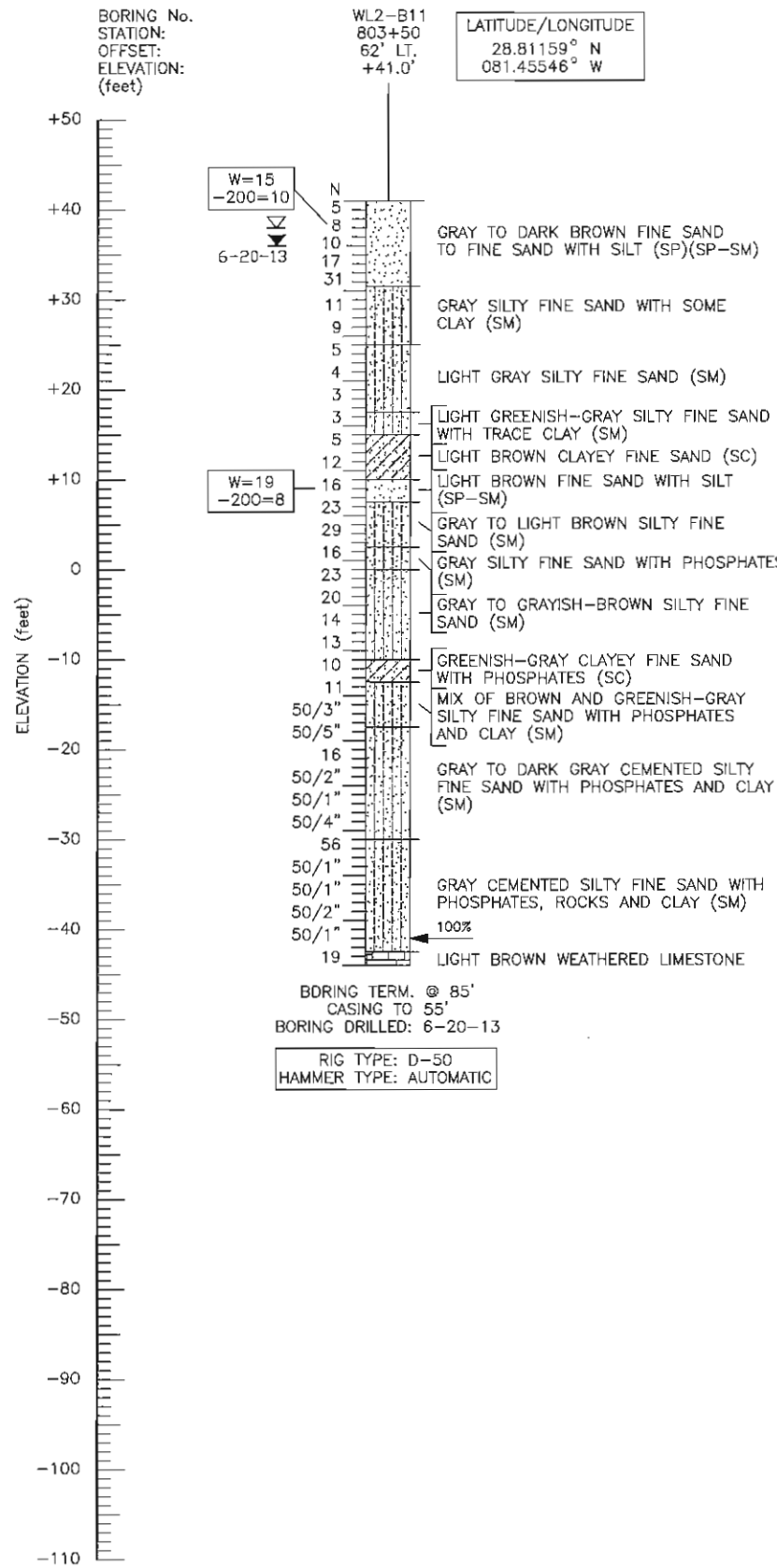
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REVISIONS						DRAWN BY: SW 12-3-14	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF SPT BORINGS FOR STRUCTURES	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CHECKED BY: ENJ 12-3-14	SR 429	LAKE SEMINOLE	238275-7-32-02	PROJECT NAME: WEKIVA PARKWAY (SR 429/SR 46) SECTION 6	SHEET NO. -

RICHARD G. ACREE, P.E.  
 P.E. LICENSE NUMBER 53962  
 1675 LEE ROAD  
 WINTER PARK, FLORIDA 32789  
 TERRACON  
 CERTIFICATE OF AUTHORIZATION No. 8830

TERRACON No. H1 13 5080 EXHIBIT: A-10

WILDLIFE CROSSING No. 2



- NOTES:**
- 1) SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS.
  - 2) UNLESS NOTED ON THE BORING PROFILE, ARTESIAN CONDITIONS WERE NOT OBSERVED BY THE DRILLER AT THE BORING LOCATIONS. BASED ON REVIEW OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT POTENTIOMETRIC MAPS OF THE FLORIDAN AQUIFER FOR THE PROJECT AREA, THE POTENTIAL ARTESIAN HEAD ELEVATION IS ESTIMATED TO BE +30 FEET, (NGVD).
  - 3) STATIONS AND OFFSETS REFERENCE THE BASELINE OF SURVEY OF SR 429 (WEKIVA PARKWAY).
  - 4) BORING LOCATIONS AND ELEVATIONS SURVEYED BY MCKIM AND CREED, UNLESS OTHERWISE NOTED.

- SAND, SAND WITH SILT
  - SILTY SAND
  - CLAYEY SAND
  - DOLOSTONE, LIMESTONE
  - SANDY CLAY
  - CLAY
  - SILT
  - SANDY SILT
- (SP) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL
- ENCOUNTERED GROUNDWATER LEVEL DATE NOTED
- ESTIMATED NORMAL SEASONAL HIGH GROUNDWATER LEVEL
- GNE-10' GROUNDWATER LEVEL NOT ENCOUNTERED TO DEPTH OF 10 FEET
- W=0** NATURAL MOISTURE CONTENT (%)  
**-200=0** FINES PASSING No. 200 SIEVE (%)  
**LL=0** LIQUID LIMIT (%)  
**PI=0** PLASTICITY INDEX  
**NP** NON-PLASTIC

**STANDARD PENETRATION TEST DATA**

**AUTOMATIC HAMMER**

SPoon INSIDE DIA.	1 3/8 in.
SPoon OUTSIDE DIA.	2 in.
ASTM STANDARD AUTOMATIC HAMMER	
AVG. HAMMER DROP	30 in.
HAMMER WEIGHT	140 lbs.

**GRANULAR MATERIALS**

RELATIVE DENSITY	SPT (BLOWS/FOOT)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40

**SILTS AND CLAYS**

CONSISTENCY	SPT (BLOWS/FOOT)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

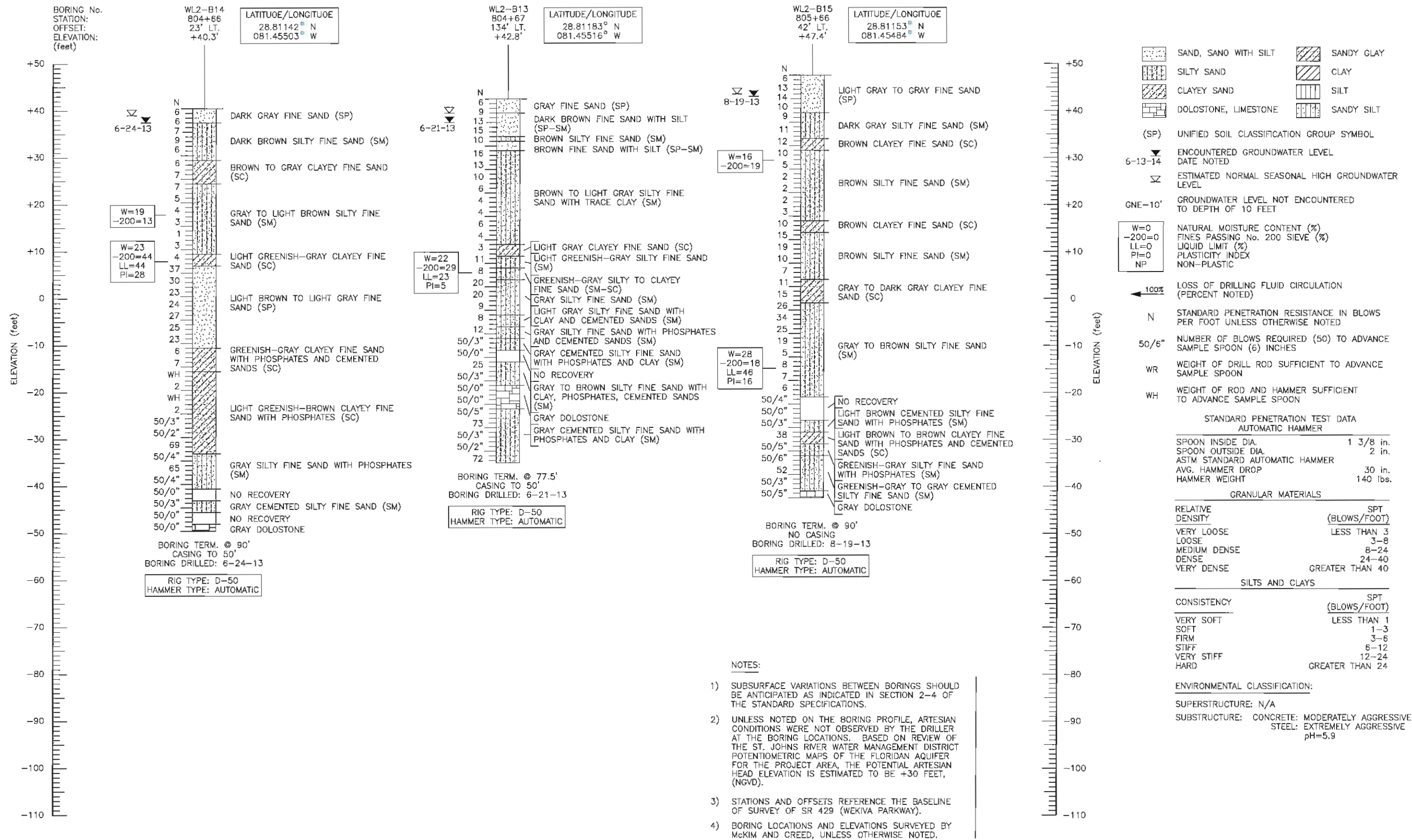
**ENVIRONMENTAL CLASSIFICATION:**

SUPERSTRUCTURE: N/A  
 SUBSTRUCTURE: CONCRETE: MODERATELY AGGRESSIVE  
 STEEL: EXTREMELY AGGRESSIVE  
 pH=5.9

Dec03, 2014-10:54am

REVISIONS						DRAWN BY: SW 12-3-14	CHECKED BY: ENJ 12-3-14	DESIGNED BY: SR 429	CHECKED BY:	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					ROAD NO.	COUNTY	FINANCIAL PROJECT ID	REPORT OF SPT BORINGS FOR STRUCTURES		
										SR 429	LAKE SEMINOLE	238275-7-32-02	WEKIVA PARKWAY (SR 429/SR 46) SECTION 6		

WILDLIFE CROSSING No. 2

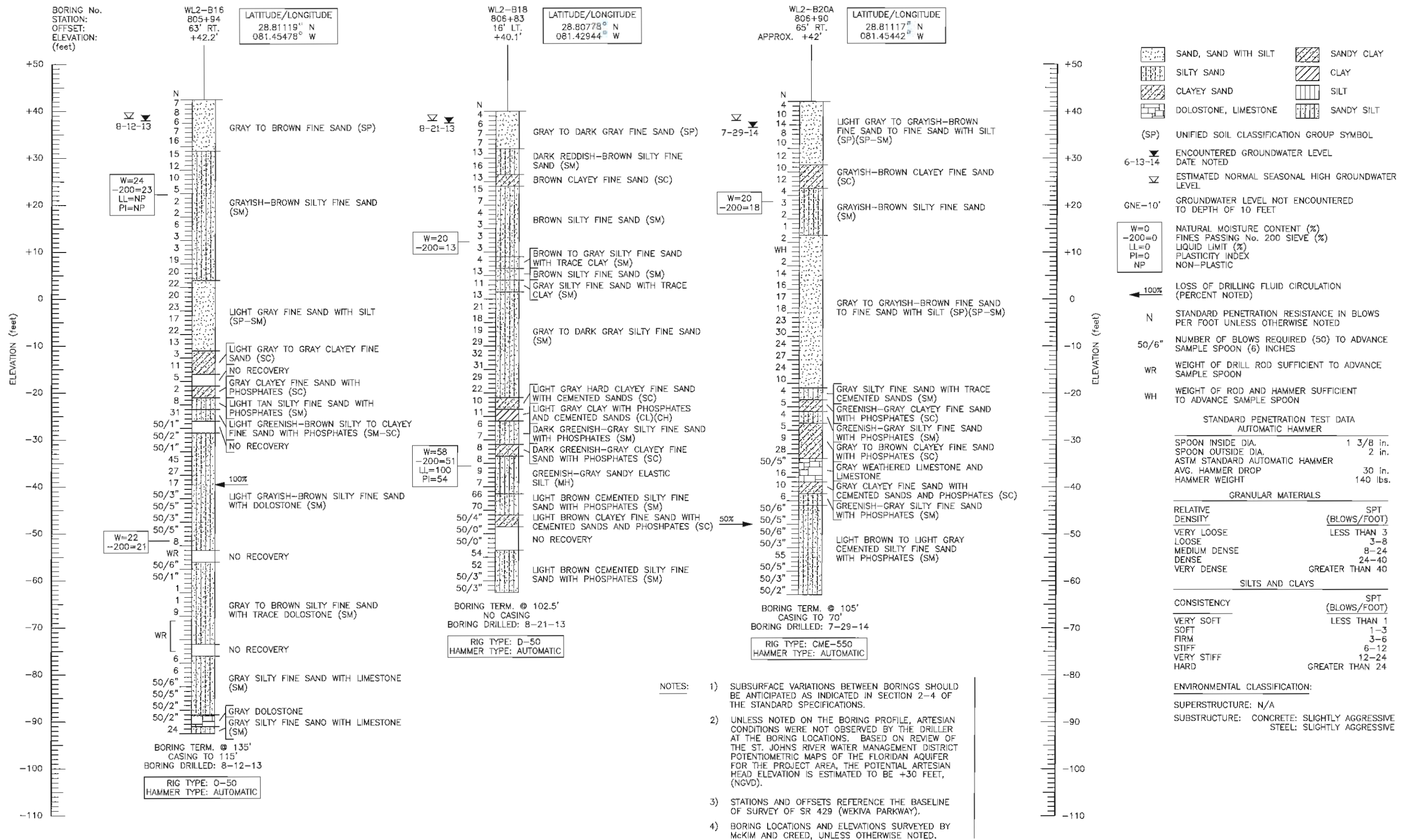


- NOTES:
- SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS.
  - UNLESS NOTED ON THE BORING PROFILE, ARTESIAN CONDITIONS WERE NOT OBSERVED BY THE DRILLER AT THE BORING LOCATIONS. BASED ON REVIEW OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT POTENTIOMETRIC MAPS OF THE FLORIDAN AQUIFER FOR THE PROJECT AREA, THE POTENTIAL ARTESIAN HEAD ELEVATION IS ESTIMATED TO BE +30 FEET, (NGVD).
  - STATIONS AND OFFSETS REFERENCE THE BASELINE OF SURVEY OF SR 429 (WEKIVA PARKWAY).
  - BORING LOCATIONS AND ELEVATIONS SURVEYED BY MCKIM AND CREED, UNLESS OTHERWISE NOTED.

WILDLIFE CROSSING No. 2

REVISIONS						DRAWN BY: SW 12-3-14	CHECKED BY: ENJ 12-3-14	STATE OF FLORIDA		SHEET TITLE: <b>REPORT OF SPT BORINGS FOR STRUCTURES</b>	REF. DWG. NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			DEPARTMENT OF TRANSPORTATION				PROJECT NAME:
						DESIGNED BY: SR 429	COUNTY: LAKE SEMINOLE	FINANCIAL PROJECT ID: 238275-7-32-02	WEKIVA PARKWAY (SR 429/SR 46) SECTION 6			SHEET NO. -
RICHARD G. ACREE, P.E. P.E. LICENSE NUMBER 53962 1675 LEE ROAD WINTER PARK, FLORIDA 32789 TERRACON CERTIFICATE OF AUTHORIZATION No. 8830								TERRACON No. H1 13 5080 EXHIBIT: A-12				



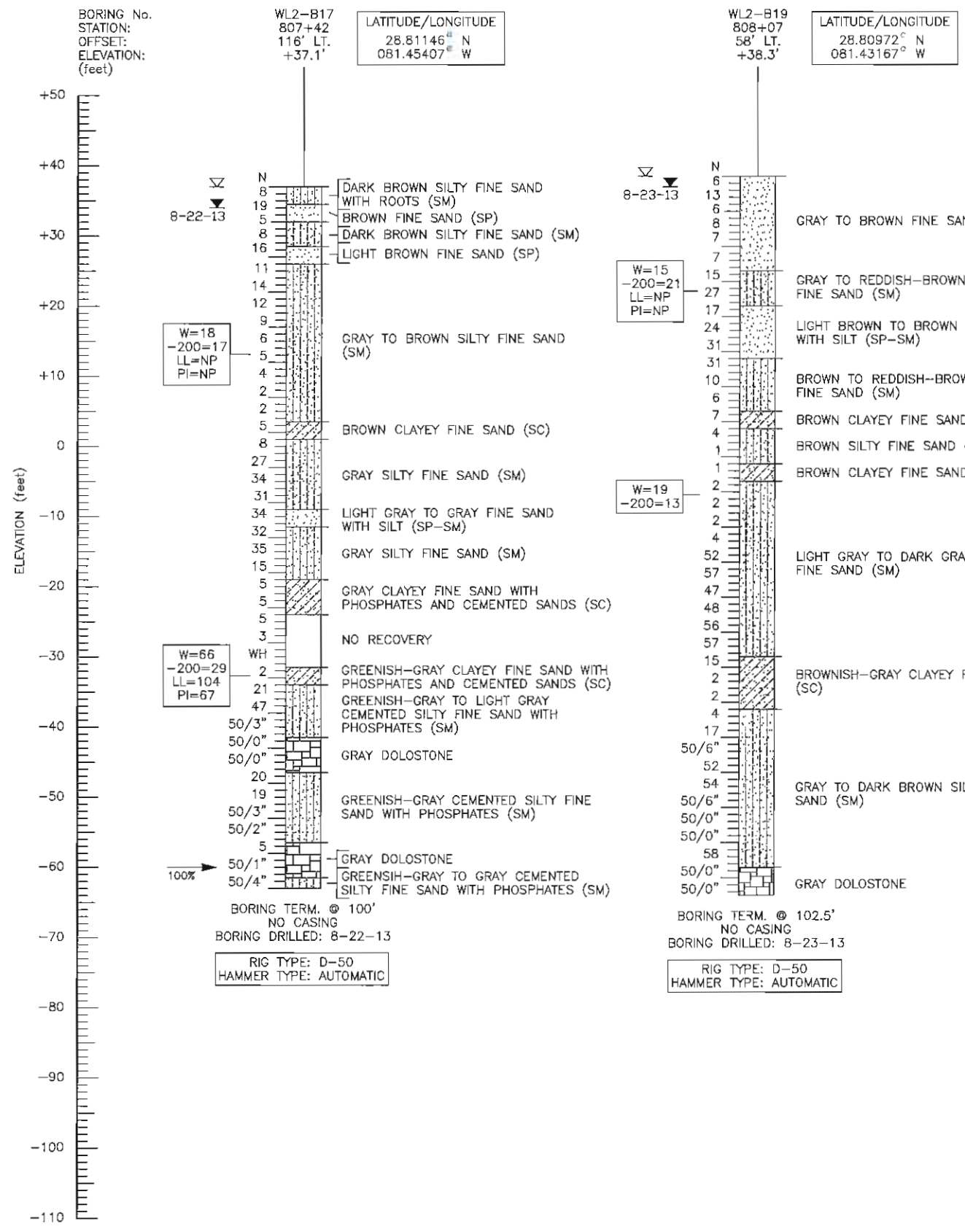


Dec03\_2014-11:15am

WILDLIFE CROSSING No. 2

REVISIONS				DRAWN BY: SW 12-3-14	STATE OF FLORIDA		SHEET TITLE: REPORT OF SPT BORINGS FOR STRUCTURES	REF. DWG. NO.
DATE	BY	DESCRIPTION	DESCRIPTION		DEPARTMENT OF TRANSPORTATION			
				CHECKED BY: ENJ 12-3-14	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: WEKIVA PARKWAY (SR 429/SR 46)
				DESIGNED BY:	SR 429	LAKE SEMINOLE	238275-7-32-02	SECTION 6
				CHECKED BY:				SHEET NO. -

RICHARD G. ACREE, P.E.  
P.E. LICENSE NUMBER 53962  
1675 LEE ROAD  
WINTER PARK, FLORIDA 32789  
TERRACON  
CERTIFICATE OF AUTHORIZATION No. 8830



- NOTES:**
- SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS.
  - UNLESS NOTED ON THE BORING PROFILE, ARTESIAN CONDITIONS WERE NOT OBSERVED BY THE DRILLER AT THE BORING LOCATIONS. BASED ON REVIEW OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT POTENTIOMETRIC MAPS OF THE FLORIDAN AQUIFER FOR THE PROJECT AREA, THE POTENTIAL ARTESIAN HEAD ELEVATION IS ESTIMATED TO BE +30 FEET, (NGVD).
  - STATIONS AND OFFSETS REFERENCE THE BASELINE OF SURVEY OF SR 429 (WEKIVA PARKWAY).
  - BORING LOCATIONS AND ELEVATIONS SURVEYED BY MCKIM AND CREED, UNLESS OTHERWISE NOTED.

	SAND, SAND WITH SILT		SANDY CLAY
	SILTY SAND		CLAY
	CLAYEY SAND		SILT
	DOLOSTONE, LIMESTONE		SANDY SILT

(SP) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL

▼ ENCOUNTERED GROUNDWATER LEVEL DATE NOTED

∑ ESTIMATED NORMAL SEASONAL HIGH GROUNDWATER LEVEL

GNE-10' GROUNDWATER LEVEL NOT ENCOUNTERED TO DEPTH OF 10 FEET

W=0	NATURAL MOISTURE CONTENT (%)
-200=0	FINES PASSING No. 200 SIEVE (%)
LL=0	LIQUID LIMIT (%)
PI=0	PLASTICITY INDEX
NP	NON-PLASTIC

← 100% LOSS OF DRILLING FLUID CIRCULATION (PERCENT NOTED)

N STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT UNLESS OTHERWISE NOTED

50/6" NUMBER OF BLOWS REQUIRED (50) TO ADVANCE SAMPLE SPOON (6) INCHES

WR WEIGHT OF DRILL ROD SUFFICIENT TO ADVANCE SAMPLE SPOON

WH WEIGHT OF ROD AND HAMMER SUFFICIENT TO ADVANCE SAMPLE SPOON

STANDARD PENETRATION TEST DATA	
AUTOMATIC HAMMER	
SPOON INSIDE DIA.	1 3/8 in.
SPOON OUTSIDE DIA.	2 in.
ASTM STANDARD AUTOMATIC HAMMER	
AVG. HAMMER DROP	30 in.
HAMMER WEIGHT	140 lbs.

GRANULAR MATERIALS	
RELATIVE DENSITY	(BLOWS/FOOT)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40

SILTS AND CLAYS	
CONSISTENCY	(BLOWS/FOOT)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

ENVIRONMENTAL CLASSIFICATION:

SUPERSTRUCTURE: N/A

SUBSTRUCTURE: CONCRETE: SLIGHTLY AGGRESSIVE  
STEEL: MODERATELY AGGRESSIVE  
pH=7.0

Dec03, 2014-11:18am

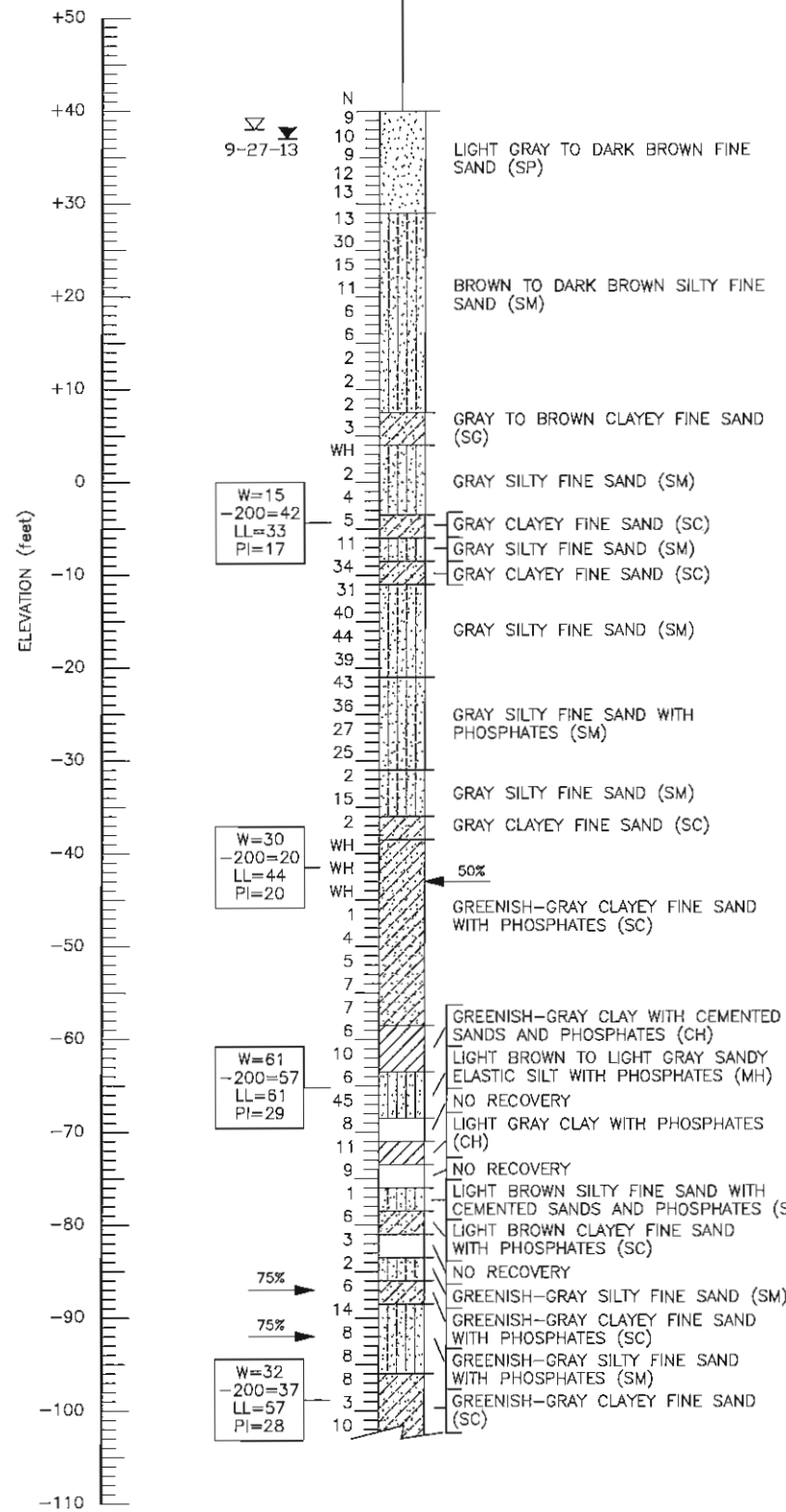
REVISIONS				DRAWN BY: SW 12-3-14	CHECKED BY: ENJ 12-3-14	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: <b>REPORT OF SPT BORINGS FOR STRUCTURES</b>	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE			BY	DESCRIPTION	ROAD NO.		
						SR 429	LAKE SEMINOLE	238275-7-32-02	PROJECT NAME: WEKIVA PARKWAY (SR 429/SR 46) SECTION 6	SHEET NO. -

RICHARD G. ACREE, P.E.  
P.E. LICENSE NUMBER 53962  
1675 LEE ROAD  
WINTER PARK, FLORIDA 32789  
TERRACON  
CERTIFICATE OF AUTHORIZATION No. 8830

WILDLIFE CROSSING No. 2

BORING No. WL2-B20  
 STATION: 808+20  
 OFFSET: 57' RT.  
 ELEVATION: +39.9'  
 (feet)

LATITUDE/LONGITUDE  
 28.81124° N  
 081.45405° W

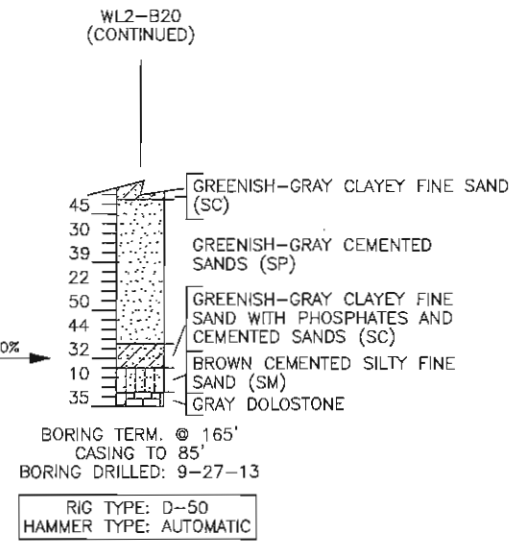
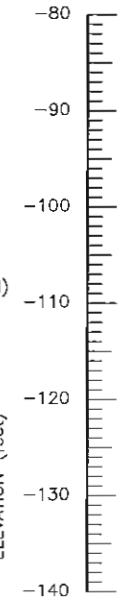


W=15  
 -200=42  
 LL=33  
 PI=17

W=30  
 -200=20  
 LL=44  
 PI=20

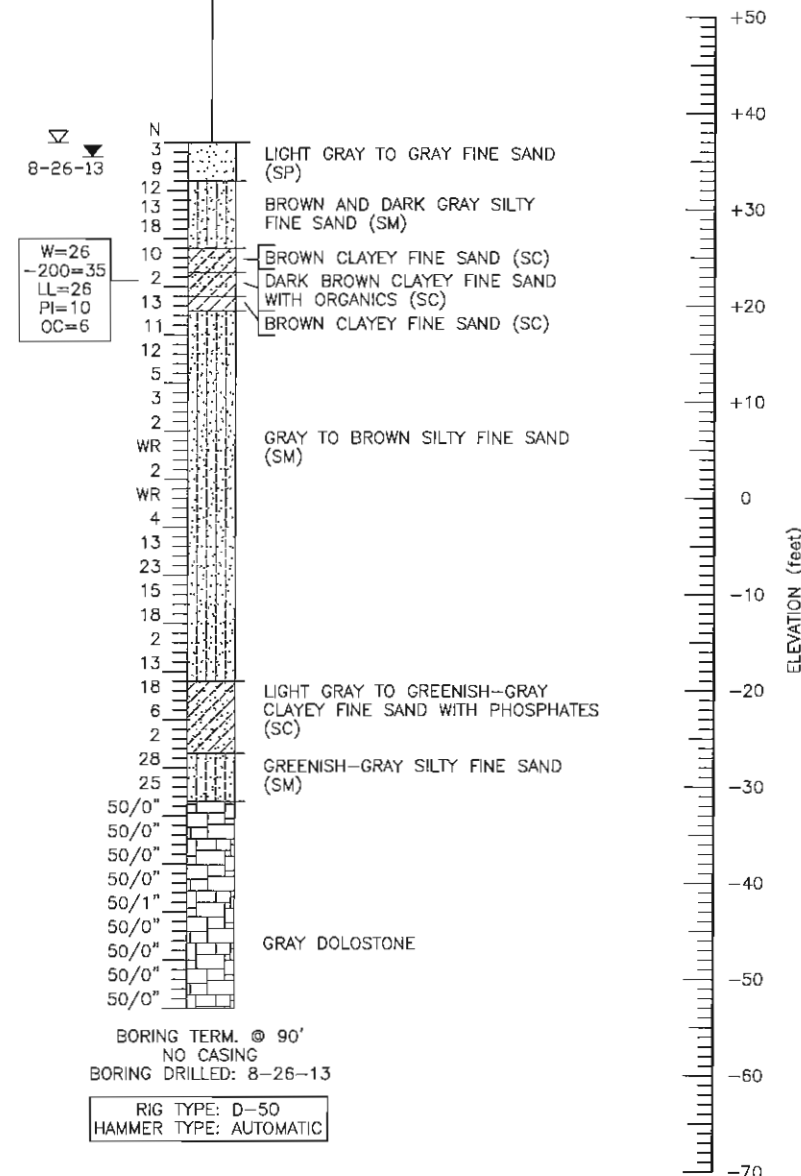
W=61  
 -200=57  
 LL=61  
 PI=29

W=32  
 -200=37  
 LL=57  
 PI=28



BORING No. WL2-B21  
 STATION: 809+15  
 OFFSET: 137' LT.  
 ELEVATION: +36.9'  
 (feet)

LATITUDE/LONGITUDE  
 28.80806° N  
 081.43056° W



W=26  
 -200=35  
 LL=26  
 PI=10  
 OC=6

BORING TERM. @ 90'  
 NO CASING  
 BORING DRILLED: 8-26-13  
 RIG TYPE: D-50  
 HAMMER TYPE: AUTOMATIC

- NOTES:
- SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS.
  - UNLESS NOTED ON THE BORING PROFILE, ARTESIAN CONDITIONS WERE NOT OBSERVED BY THE DRILLER AT THE BORING LOCATIONS. BASED ON REVIEW OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT POTENTIOMETRIC MAPS OF THE FLORIDAN AQUIFER FOR THE PROJECT AREA, THE POTENTIAL ARTESIAN HEAD ELEVATION IS ESTIMATED TO BE +30 FEET, (NGVD).
  - STATIONS AND OFFSETS REFERENCE THE BASELINE OF SURVEY OF SR 429 (WEKIVA PARKWAY).
  - BORING LOCATIONS AND ELEVATIONS SURVEYED BY McKIM AND CREED, UNLESS OTHERWISE NOTED.

	SAND, SAND WITH SILT		SILTY SAND
	CLAYEY SAND		SANDY CLAY
	DOLOSTONE, LIMESTONE		CLAY
	SILTY SILT		SILT
	SANDY SILT		SAND, SAND WITH SILT

(SP) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL

ENCOUNTERED GROUNDWATER LEVEL DATE NOTED

ESTIMATED NORMAL SEASONAL HIGH GROUNDWATER LEVEL

GNE-10' GROUNDWATER LEVEL NOT ENCOUNTERED TO DEPTH OF 10 FEET

W=0  
 -200=0  
 LL=0  
 PI=0  
 NP

NATURAL MOISTURE CONTENT (%)  
 FINES PASSING No. 200 SIEVE (%)  
 LIQUID LIMIT (%)  
 PLASTICITY INDEX  
 NON-PLASTIC

100% LOSS OF DRILLING FLUID CIRCULATION (PERCENT NOTED)

N STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT UNLESS OTHERWISE NOTED

50/6" NUMBER OF BLOWS REQUIRED (50) TO ADVANCE SAMPLE SPOON (6) INCHES

WR WEIGHT OF DRILL ROD SUFFICIENT TO ADVANCE SAMPLE SPOON

WH WEIGHT OF ROD AND HAMMER SUFFICIENT TO ADVANCE SAMPLE SPOON

STANDARD PENETRATION TEST DATA  
 AUTOMATIC HAMMER

SPOON INSIDE DIA.	1 3/8 in.
SPOON OUTSIDE DIA.	2 in.
ASTM STANDARD AUTOMATIC HAMMER	
AVG. HAMMER DROP	30 in.
HAMMER WEIGHT	140 lbs.

GRANULAR MATERIALS

RELATIVE DENSITY	SPT (BLOWS/FOOT)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40

SILTS AND CLAYS

CONSISTENCY	SPT (BLOWS/FOOT)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

ENVIRONMENTAL CLASSIFICATION:

SUPERSTRUCTURE: N/A

SUBSTRUCTURE: CONCRETE: SLIGHTLY AGGRESSIVE  
 STEEL: MODERATELY AGGRESSIVE  
 pH=7.0

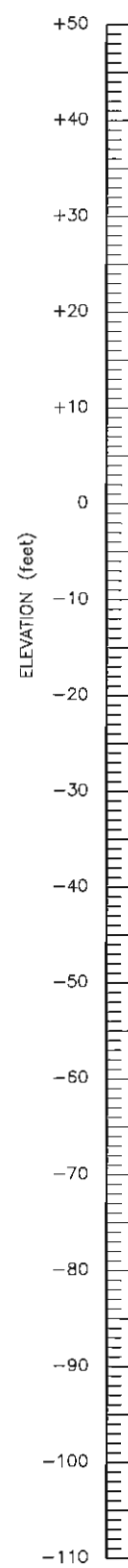
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REVISIONS						DRAWN BY: SW 12-3-14	CHECKED BY: ENJ 12-3-14	DESIGNED BY: SR 429	CHECKED BY:	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	ROAD NO. SR 429	COUNTY LAKE SEMINOLE	FINANCIAL PROJECT ID 238275-7-32-02	SHEET TITLE: REPORT OF SPT BORINGS FOR STRUCTURES	PROJECT NAME: WEKIVA PARKWAY (SR 429/SR 46) SECTION 6	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION											

RICHARD G. ACREE, P.E.  
 P.E. LICENSE NUMBER 53962  
 1675 LEE ROAD  
 WINTER PARK, FLORIDA 32789  
 TERRACON  
 CERTIFICATE OF AUTHORIZATION No. 8830

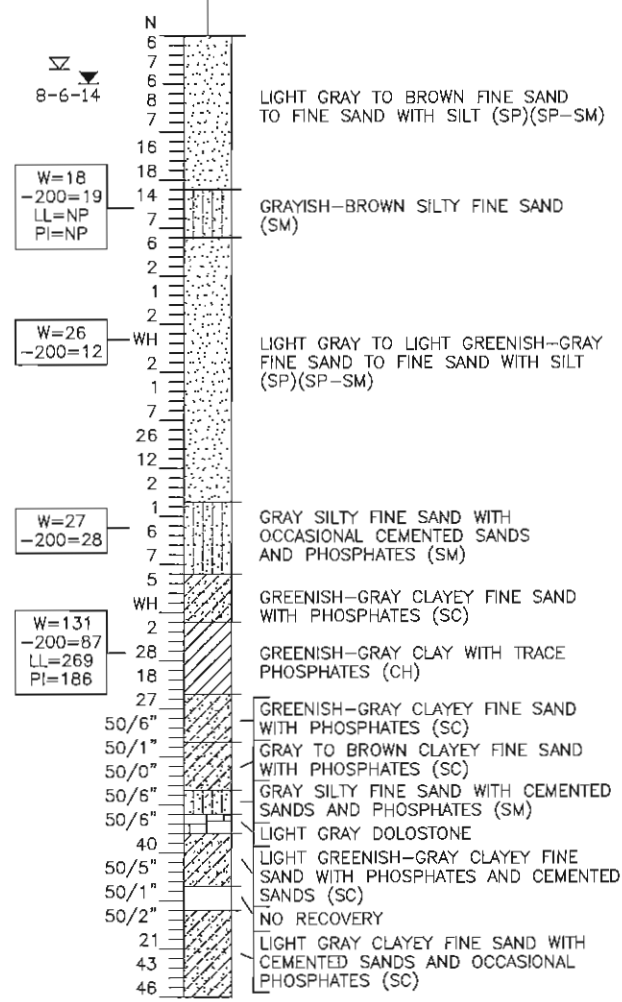
WILDLIFE CROSSING No. 2

BORING No.  
STATION:  
OFFSET:  
ELEVATION:  
(feet)



WL2-B20B  
809+15  
65' RT.  
APPROX. +41'

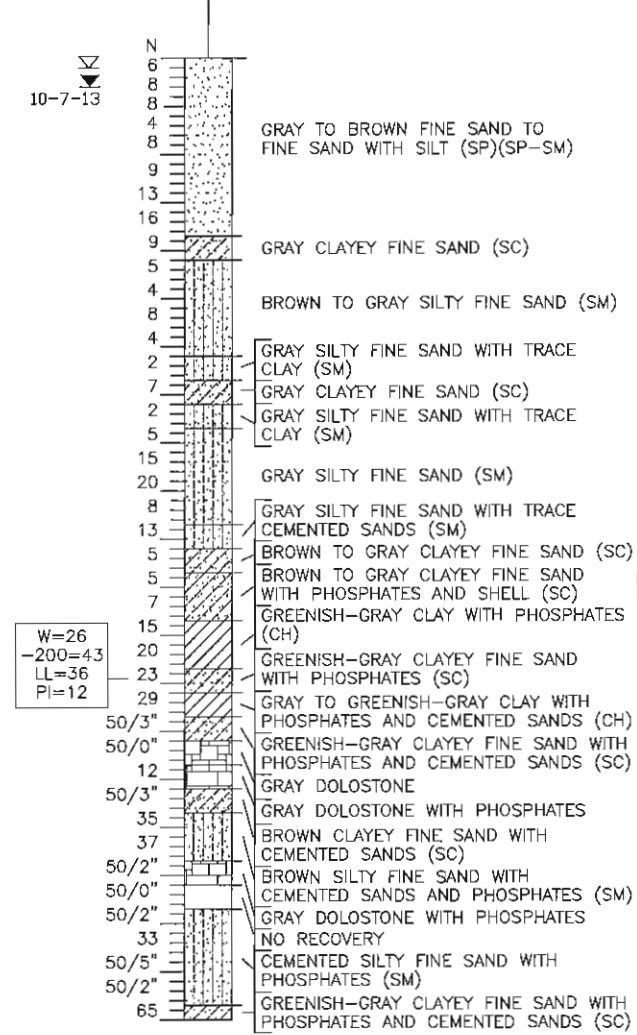
LATITUDE/LONGITUDE  
28.81114° N  
081.45372° W



BORING TERM. @ 100'  
CASING TO 65'  
BORING DRILLED: 8-6-14  
RIG TYPE: CME-550  
HAMMER TYPE: AUTOMATIC

WL2-B23  
810+29  
48' RT.  
+38.3'

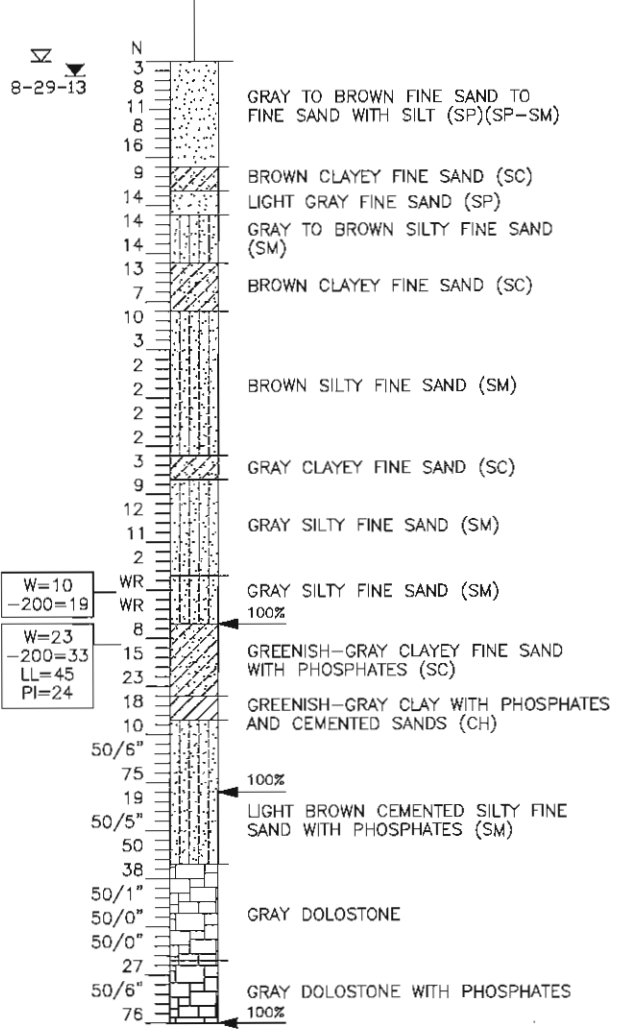
LATITUDE/LONGITUDE  
28.81120° N  
081.45335° W



BORING TERM. @ 100'  
NO CASING  
BORING DRILLED: 10-7-13  
RIG TYPE: D-50  
HAMMER TYPE: AUTOMATIC

WL2-B22  
810+30  
60' LT.  
+37.9'

LATITUDE/LONGITUDE  
28.81139° N  
081.45333° W



BORING TERM. @ 100'  
CASING TO 85'  
BORING DRILLED: 8-29-13  
RIG TYPE: D-50  
HAMMER TYPE: AUTOMATIC

- NOTES:
- SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS.
  - UNLESS NOTED ON THE BORING PROFILE, ARTESIAN CONDITIONS WERE NOT OBSERVED BY THE DRILLER AT THE BORING LOCATIONS. BASED ON REVIEW OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT POTENTIOMETRIC MAPS OF THE FLORIDAN AQUIFER FOR THE PROJECT AREA, THE POTENTIAL ARTESIAN HEAD ELEVATION IS ESTIMATED TO BE +30 FEET, (NGVD).
  - STATIONS AND OFFSETS REFERENCE THE BASELINE OF SURVEY OF SR 429 (WEKIVA PARKWAY).
  - BORING LOCATIONS AND ELEVATIONS SURVEYED BY MCKIM AND CREED, UNLESS OTHERWISE NOTED.

Legend for soil types and symbols:

- SAND, SAND WITH SILT
- SILTY SAND
- CLAYEY SAND
- DOLOSTONE, LIMESTONE
- SANDY CLAY
- CLAY
- SILT
- SANDY SILT
- (SP) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL
- ENCOUNTERED GROUNDWATER LEVEL DATE NOTED
- ESTIMATED NORMAL SEASONAL HIGH GROUNDWATER LEVEL
- GROUNDWATER LEVEL NOT ENCOUNTERED TO DEPTH OF 10 FEET
- NATURAL MOISTURE CONTENT (%)
- FINES PASSING No. 200 SIEVE (%)
- LIQUID LIMIT (%)
- PLASTICITY INDEX
- NON-PLASTIC
- ORGANIC CONTENT (%)

STANDARD PENETRATION TEST DATA  
AUTOMATIC HAMMER

SPOON INSIDE DIA. 1 3/8 in.  
SPOON OUTSIDE DIA. ASTM STANDARD AUTOMATIC HAMMER  
AVG. HAMMER DROP 140 lbs.  
HAMMER WEIGHT

GRANULAR MATERIALS

RELATIVE DENSITY (BLOWS/FOOT)

VERY LOOSE LESS THAN 3  
LOOSE  
MEDIUM DENSE  
DENSE  
VERY DENSE GREATER THAN 40

SILTS AND CLAYS

CONSISTENCY (BLOWS/FOOT)

VERY SOFT LESS THAN 1  
SOFT  
FIRM  
STIFF  
VERY STIFF  
HARD GREATER THAN 24

ENVIRONMENTAL CLASSIFICATION:

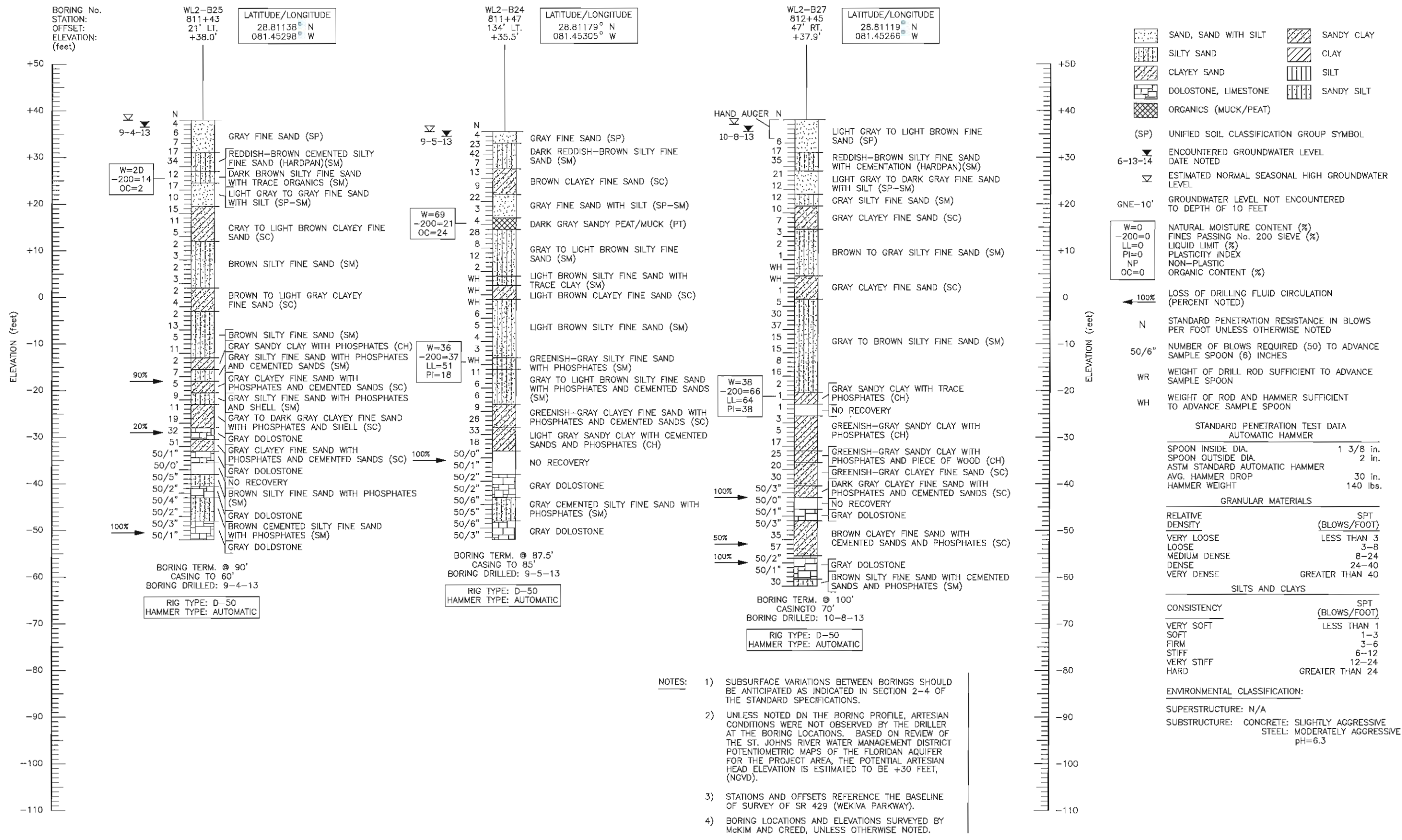
SUPERSTRUCTURE: N/A  
SUBSTRUCTURE: CONCRETE: SLIGHTLY AGGRESSIVE  
STEEL: MODERATELY AGGRESSIVE  
pH=6.3

WILDLIFE CROSSING No. 2

Dec09, 2014-10:16am

REVISIONS						DRAWN BY: SW 12-3-14	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF SPT BORINGS FOR STRUCTURES	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						ENJ 12-3-14	SR 429	LAKE SEMINOLE	238275-7-32-02	PROJECT NAME: WEKIVA PARKWAY (SR 429/SR 46) SECTION 6	SHEET NO. -

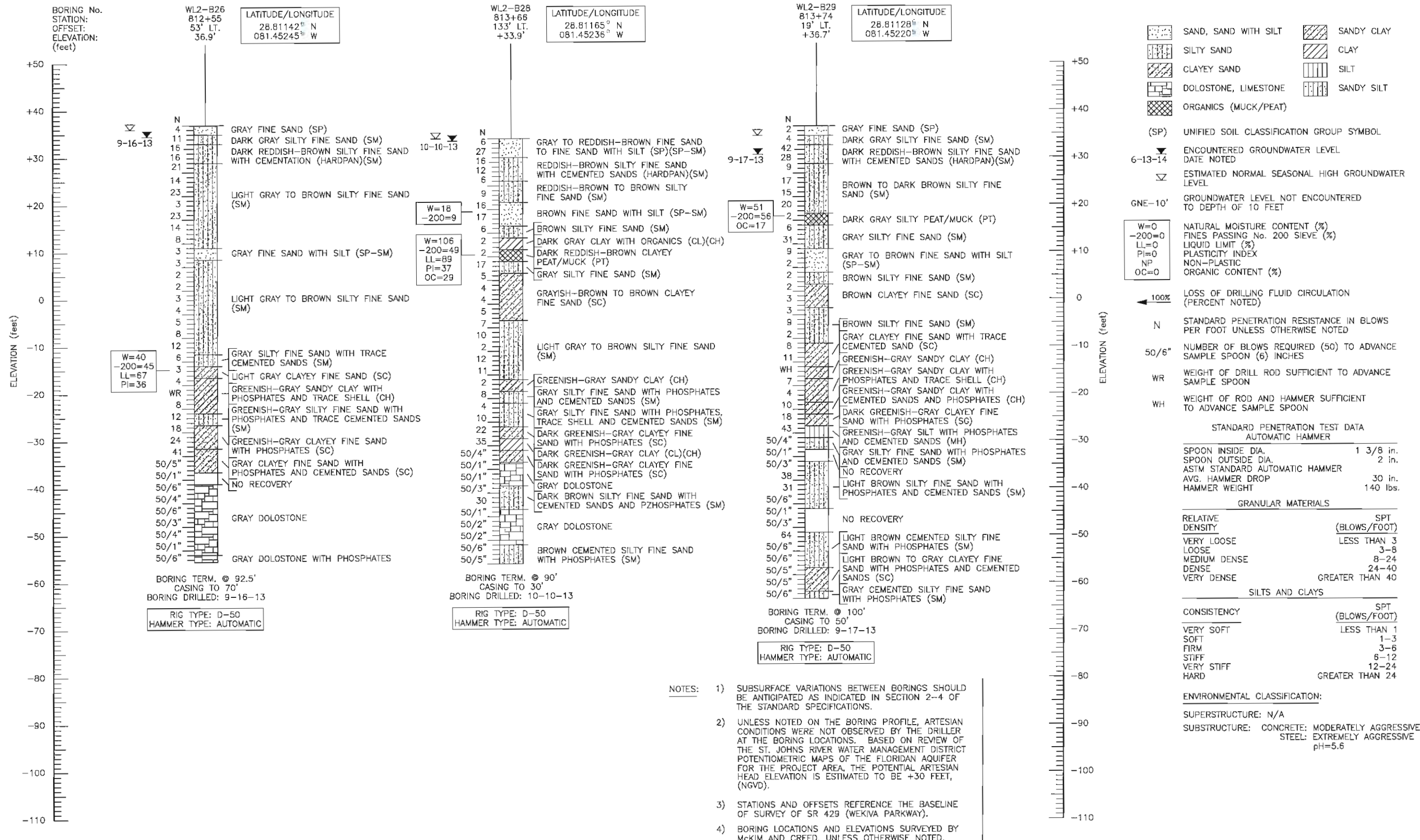
RICHARD G. ACREE, P.E.  
P.E. LICENSE NUMBER 53962  
1675 LEE ROAD  
WINTER PARK, FLORIDA 32789  
TERRACON  
CERTIFICATE OF AUTHORIZATION No. 8830



- NOTES:**
- SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS.
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  - STATIONS AND OFFSETS REFERENCE THE BASELINE OF SURVEY OF SR 429 (WEKIVA PARKWAY).
  - BORING LOCATIONS AND ELEVATIONS SURVEYED BY McKIM AND CREED, UNLESS OTHERWISE NOTED.

REVISIONS						DRAWN BY: SW 12-3-14	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF SPT BORINGS FOR STRUCTURES	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CHECKED BY: ENJ 12-3-14	SR 429	LAKE SEMINOLE	238275-7-32-02	WEKIVA PARKWAY (SR 429/SR 46) SECTION 6	
RICHARD G. ACREE, P.E. P.E. LICENSE NUMBER 53962 1675 LEE ROAD WINTER PARK, FLORIDA 32789 TERRACON CERTIFICATE OF AUTHORIZATION No. 8830						CHECKED BY:					

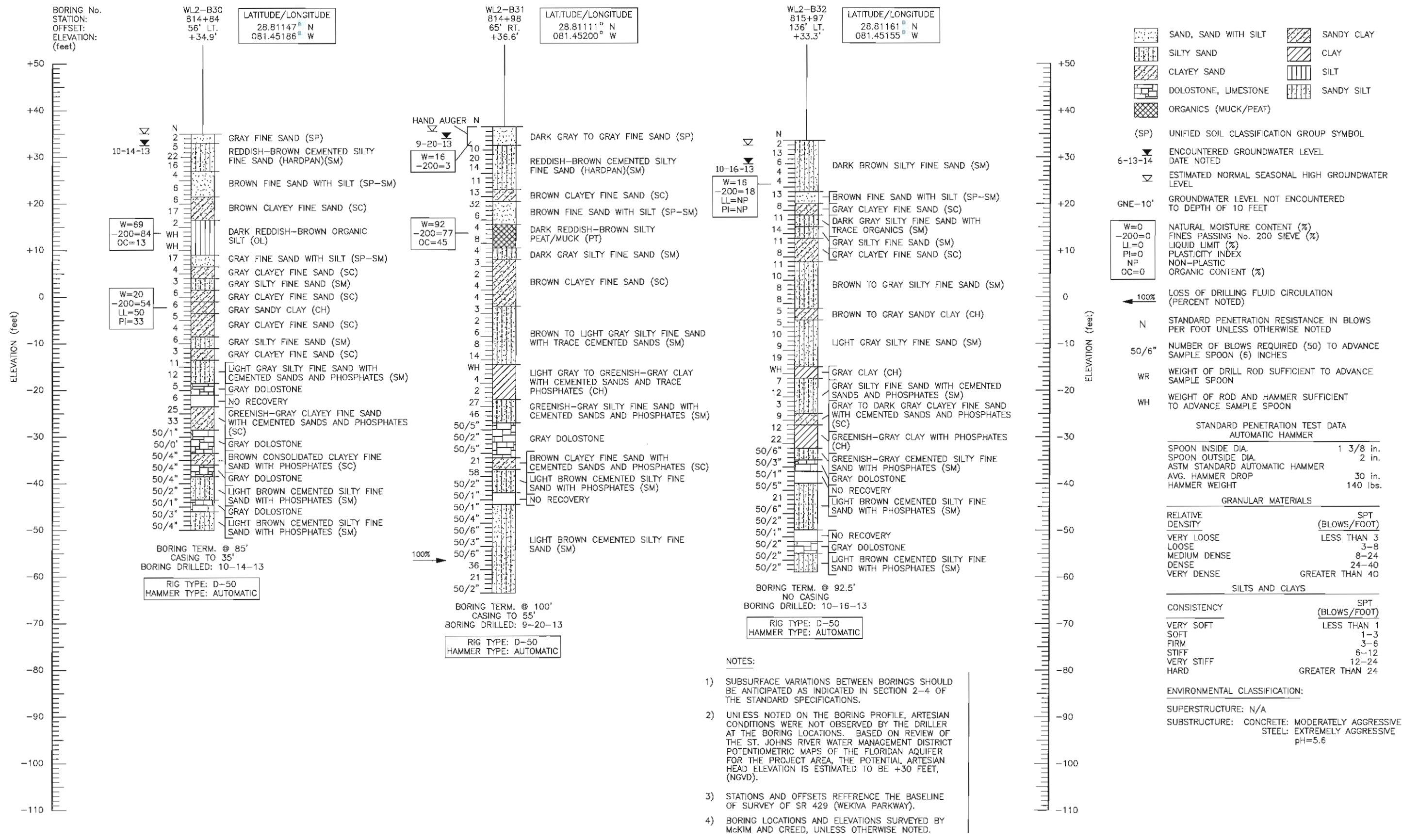
Dec03, 2014-11:33am



**WILDLIFE CROSSING No. 2**

REVISIONS						DRAWN BY: SW 12-3-14	STATE OF FLORIDA		SHEET TITLE: <b>REPORT OF SPT BORINGS FOR STRUCTURES</b>	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		DEPARTMENT OF TRANSPORTATION			
						CHECKED BY: ENJ 12-3-14	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: <b>WEKIVA PARKWAY (SR 429/SR 46) SECTION 6</b>
						DESIGNED BY: SR 429	LAKE SEMINOLE	238275-7-32-02		
						CHECKED BY:				

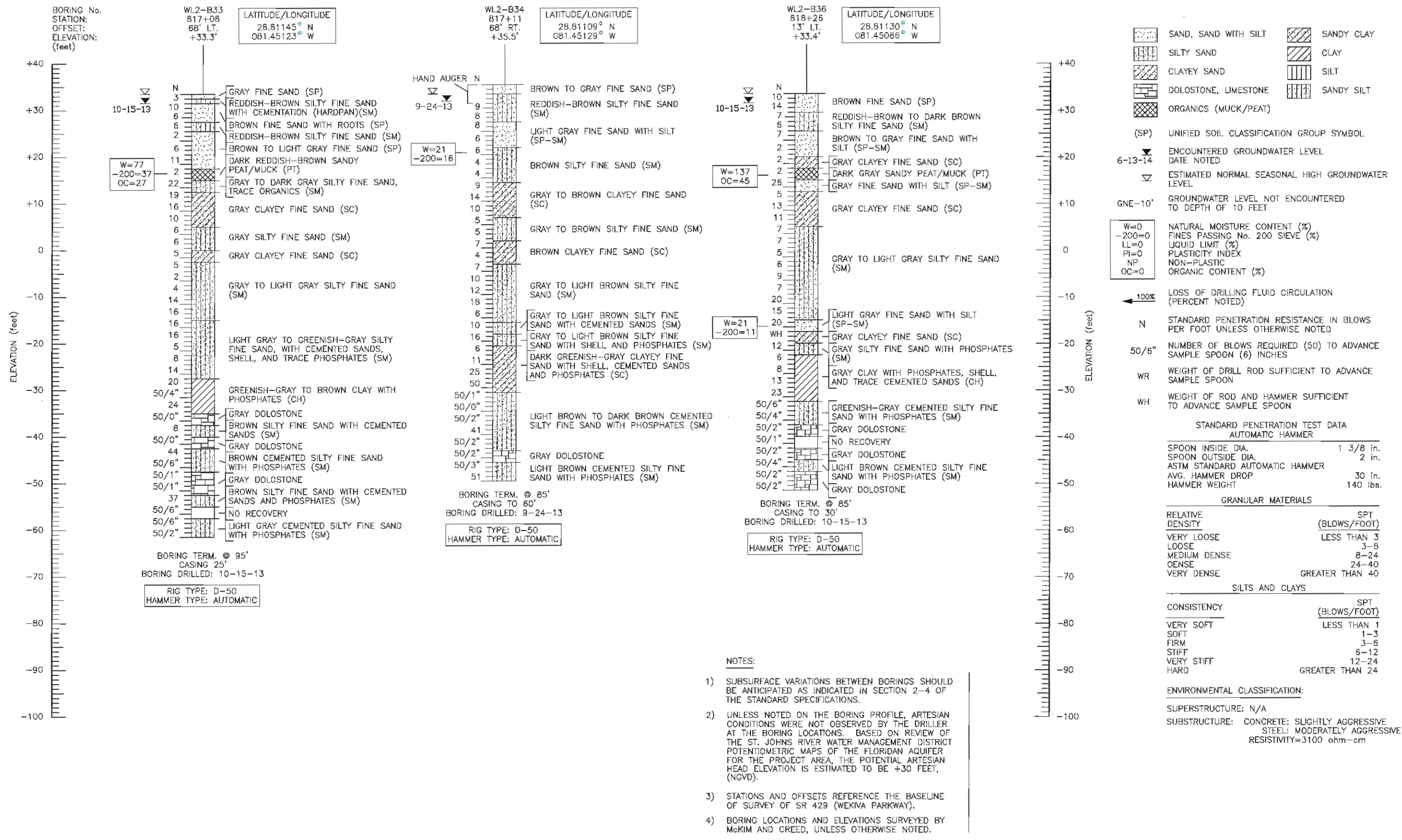
RICHARD G. ACREE, P.E.  
P.E. LICENSE NUMBER 53962  
1675 LEE ROAD  
WINTER PARK, FLORIDA 32789  
TERRACON  
CERTIFICATE OF AUTHORIZATION No. 8830



- NOTES:**
- SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS.
  - UNLESS NOTED ON THE BORING PROFILE, ARTESIAN CONDITIONS WERE NOT OBSERVED BY THE DRILLER AT THE BORING LOCATIONS. BASED ON REVIEW OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT POTENTIOMETRIC MAPS OF THE FLORIDAN AQUIFER FOR THE PROJECT AREA, THE POTENTIAL ARTESIAN HEAD ELEVATION IS ESTIMATED TO BE +30 FEET, (NGVD).
  - STATIONS AND OFFSETS REFERENCE THE BASELINE OF SURVEY OF SR 429 (WEKIVA PARKWAY).
  - BORING LOCATIONS AND ELEVATIONS SURVEYED BY MCKIM AND CREED, UNLESS OTHERWISE NOTED.

REVISIONS						DRAWN BY: SW 12-3-14	CHECKED BY: ENJ 12-3-14	DESIGNED BY: SR 429	CHECKED BY:	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF SPT BORINGS FOR STRUCTURES	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
										SR 429	LAKE SEMINOLE	238275-7-32-02	WEKIVA PARKWAY (SR 429/SR 46) SECTION 6	

Dec03, 2014-1:48pm



- NOTES:**
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  - STATIONS AND OFFSETS REFERENCE THE BASELINE OF SURVEY OF SR 429 (WEKIVA PARKWAY).
  - BORING LOCATIONS AND ELEVATIONS SURVEYED BY MCKIM AND CREED, UNLESS OTHERWISE NOTED.

**WILDLIFE CROSSING No. 2**

REVISIONS						DRAWN BY: SW 12-3-14	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: <b>REPORT OF SPT BORINGS FOR STRUCTURES</b>	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						ENJ 12-3-14	SR 429	LAKE SEMINOLE	238275-7-32-02	PROJECT NAME: WEKIVA PARKWAY (SR 429/SR 46) SECTION 6	SHEET NO. -

RICHARD G. ACREE, P.E.  
P.E. LICENSE NUMBER 53962  
1675 LEE ROAD  
WINTER PARK, FLORIDA 32789  
TERRACON  
CERTIFICATE OF AUTHORIZATION No. 8830



BORING No.  
STATION:  
OFFSET:  
ELEVATION:  
(feet)

WL2-B35  
818+32  
131' LT.  
+32.2'

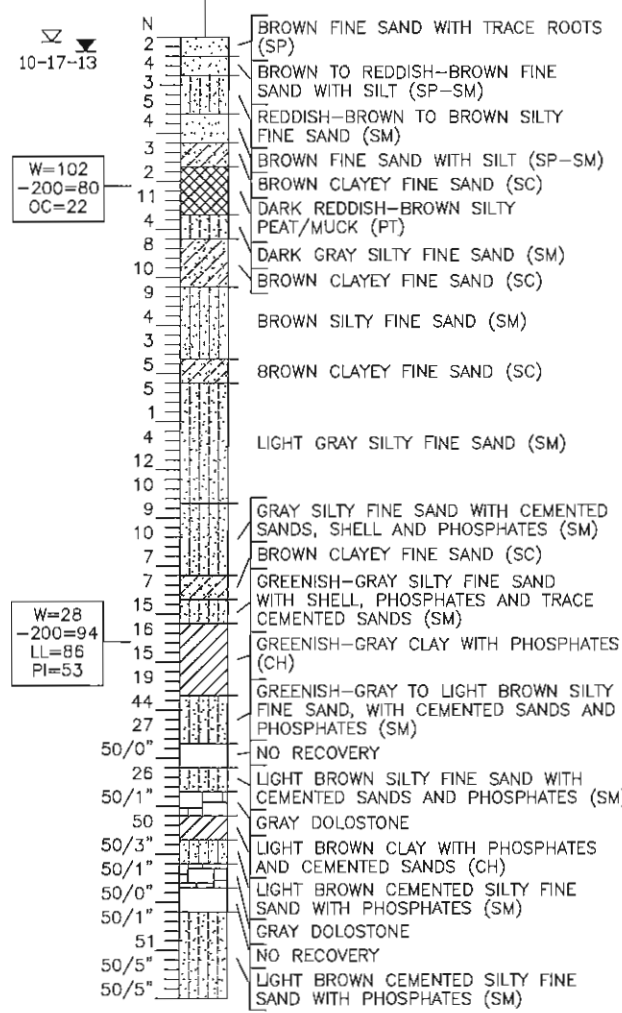
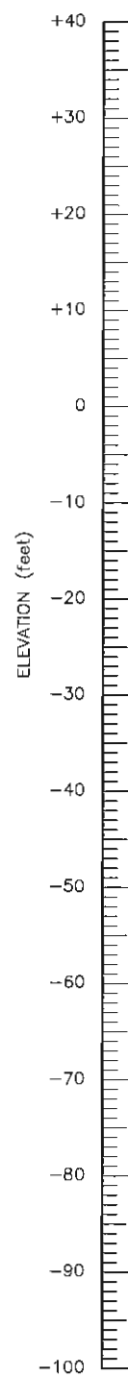
LATITUDE/LONGITUDE  
28.81163° N  
081.45085° W

WL2-B38  
819+28  
69' RT.  
+34.2'

LATITUDE/LONGITUDE  
28.81107° N  
081.45053° W

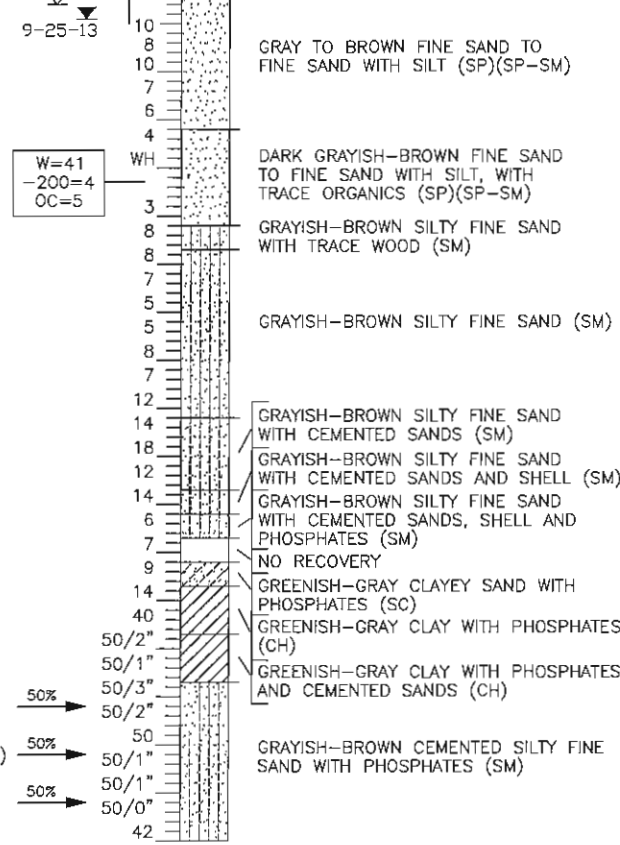
WL2-B37  
819+38  
61' LT.  
+32.1'

LATITUDE/LONGITUDE  
28.81147° N  
081.45059° W

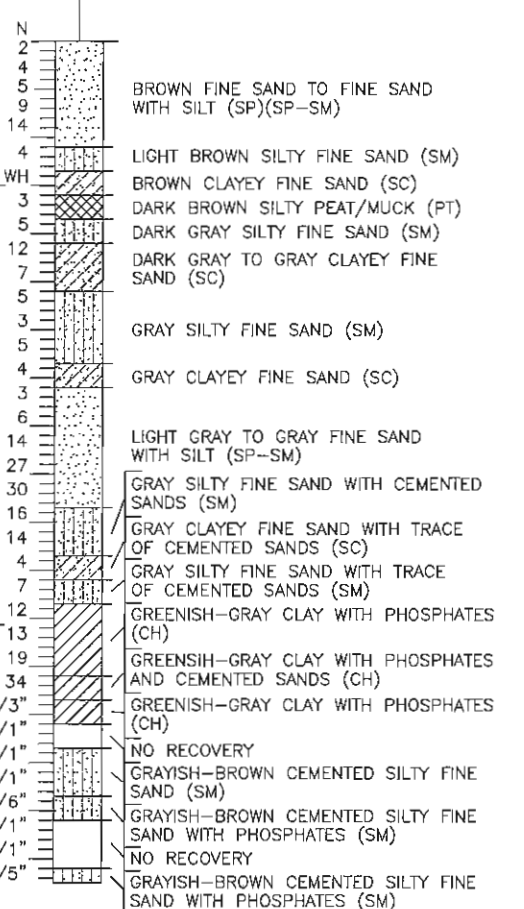
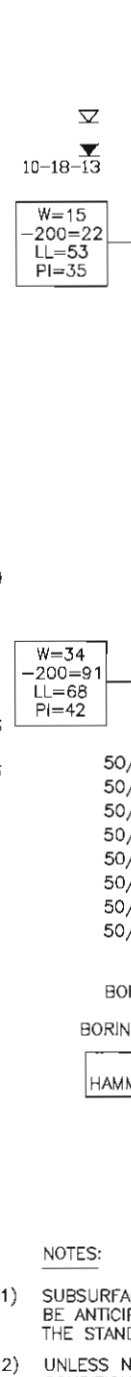


BORING TERM. @ 100'  
CASING TO 25'  
BORING DRILLED: 10-17-13  
RIG TYPE: D-50  
HAMMER TYPE: AUTOMATIC

HAND AUGER N  
9-25-13



BORING TERM. @ 90'  
CASING TO 50'  
BORING DRILLED: 9-25-13  
RIG TYPE: D-50  
HAMMER TYPE: AUTOMATIC



BORING TERM. @ 87.5'  
NO CASING  
BORING DRILLED: 10-18-13  
RIG TYPE: D-50  
HAMMER TYPE: AUTOMATIC

	SAND, SAND WITH SILT		SANDY CLAY
	SILTY SAND		CLAY
	CLAYEY SAND		SILT
	DOLOSTONE, LIMESTONE		SANDY SILT
	ORGANICS (MUCK/PEAT)		
	(SP) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL		
	ENCOUNTERED GROUNDWATER LEVEL DATE NOTED		
	ESTIMATED NORMAL SEASONAL HIGH GROUNDWATER LEVEL		
	GNE-10' GROUNDWATER LEVEL NOT ENCOUNTERED TO DEPTH OF 10 FEET		
	W=0 NATURAL MOISTURE CONTENT (%) -200=0 FINES PASSING No. 200 SIEVE (%) LL=0 LIQUID LIMIT (%) PI=0 PLASTICITY INDEX NP NON-PLASTIC OC=0 ORGANIC CONTENT (%)		
	← 100% LOSS OF DRILLING FLUID CIRCULATION (PERCENT NOTED)		
	N STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT UNLESS OTHERWISE NOTED		
	50/6" NUMBER OF BLOWS REQUIRED (50) TO ADVANCE SAMPLE SPOON (6) INCHES		
	WR WEIGHT OF DRILL ROD SUFFICIENT TO ADVANCE SAMPLE SPOON		
	WH WEIGHT OF ROD AND HAMMER SUFFICIENT TO ADVANCE SAMPLE SPOON		

STANDARD PENETRATION TEST DATA	
AUTOMATIC HAMMER	
SPOON INSIDE DIA.	1 3/8 in.
SPOON OUTSIDE DIA.	2 in.
ASTM STANDARD AUTOMATIC HAMMER	
AVG. HAMMER DROP	30 in.
HAMMER WEIGHT	140 lbs.
GRANULAR MATERIALS	
RELATIVE DENSITY	(BLOWS/FOOT)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40
SILTS AND CLAYS	
CONSISTENCY	(BLOWS/FOOT)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

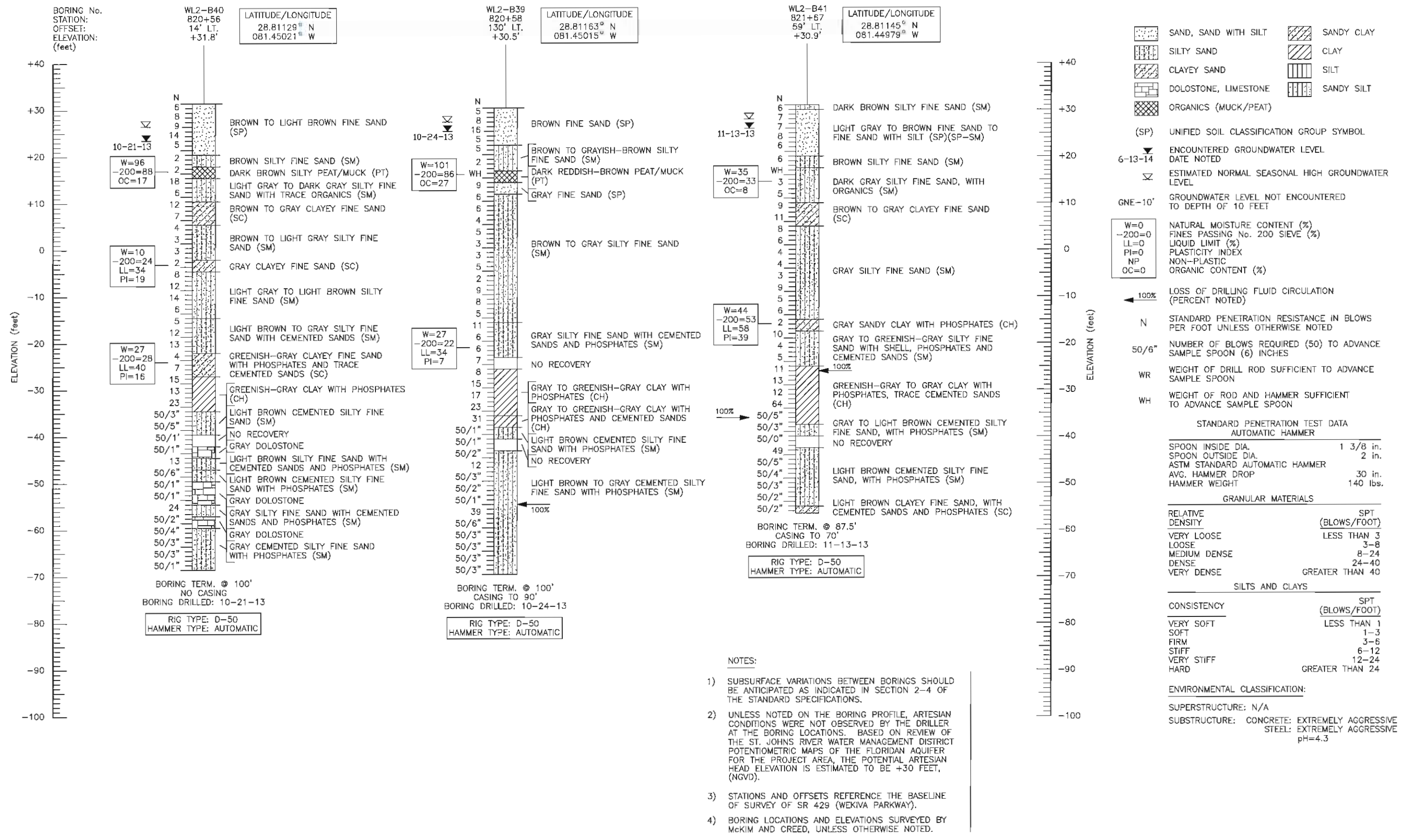
ENVIRONMENTAL CLASSIFICATION:  
SUPERSTRUCTURE: N/A  
SUBSTRUCTURE: CONCRETE: EXTREMELY AGGRESSIVE  
STEEL: EXTREMELY AGGRESSIVE  
pH=4.9

- NOTES:
- SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS.
  - UNLESS NOTED ON THE BORING PROFILE, ARTESIAN CONDITIONS WERE NOT OBSERVED BY THE DRILLER AT THE BORING LOCATIONS. BASED ON REVIEW OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT POTENTIOMETRIC MAPS OF THE FLORIDAN AQUIFER FOR THE PROJECT AREA, THE POTENTIAL ARTESIAN HEAD ELEVATION IS ESTIMATED TO BE +30 FEET, (NGVD).
  - STATIONS AND OFFSETS REFERENCE THE BASELINE OF SURVEY OF SR 429 (WEKIVA PARKWAY).
  - BORING LOCATIONS AND ELEVATIONS SURVEYED BY McKIM AND CREED, UNLESS OTHERWISE NOTED.

WILDLIFE CROSSING No. 2

REVISIONS				DRAWN BY: SW 12-3-14	STATE OF FLORIDA			SHEET TITLE: REPORT OF SPT BORINGS FOR STRUCTURES	REF. DWG. NO.
DATE	BY	DESCRIPTION	DESCRIPTION		DEPARTMENT OF TRANSPORTATION				
				CHECKED BY: ENJ 12-3-14	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: WEKIVA PARKWAY (SR 429/SR 46)	SHEET NO.
				DESIGNED BY:	SR 429	LAKE SEMINOLE	238275-7-32-02	SECTION 6	
				CHECKED BY:					

RICHARD G. ACREE, P.E.  
P.E. LICENSE NUMBER 53962  
1675 LEE ROAD  
WINTER PARK, FLORIDA 32789  
TERRACON  
CERTIFICATE OF AUTHORIZATION No. 8830



- NOTES:**
- SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS.
  - UNLESS NOTED ON THE BORING PROFILE, ARTESIAN CONDITIONS WERE NOT OBSERVED BY THE DRILLER AT THE BORING LOCATIONS. BASED ON REVIEW OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT POTENTIOMETRIC MAPS OF THE FLORIDAN AQUIFER FOR THE PROJECT AREA, THE POTENTIAL ARTESIAN HEAD ELEVATION IS ESTIMATED TO BE +30 FEET, (NGVD).
  - STATIONS AND OFFSETS REFERENCE THE BASELINE OF SURVEY OF SR 429 (WEKIVA PARKWAY).
  - BORING LOCATIONS AND ELEVATIONS SURVEYED BY MCKIM AND CREED, UNLESS OTHERWISE NOTED.

Dec09, 2014-10:18am

REVISIONS						DRAWN BY: SW 12-3-14	CHECKED BY: ENJ 12-3-14	DESIGNED BY: SR 429	CHECKED BY:	STATE OF FLORIDA		SHEET TITLE: <b>REPORT OF SPT BORINGS FOR STRUCTURES</b>	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					DEPARTMENT OF TRANSPORTATION	FINANCIAL PROJECT ID		
										ROAD NO. COUNTY	PROJECT NAME: WEKIVA PARKWAY (SR 429/SR 46) SECTION 6		
										SR 429 LAKE SEMINOLE	238275-7-32-02		

RICHARD G. ACREE, P.E.  
 P.E. LICENSE NUMBER 53962  
 1675 LEE ROAD  
 WINTER PARK, FLORIDA 32789  
 TERRACON  
 CERTIFICATE OF AUTHORIZATION No. 8830

WILDLIFE CROSSING No. 2

BORING No.  
STATION:  
OFFSET:  
ELEVATION:  
(feet)

WL2-B42  
821+69  
64' RT.  
+32.6'

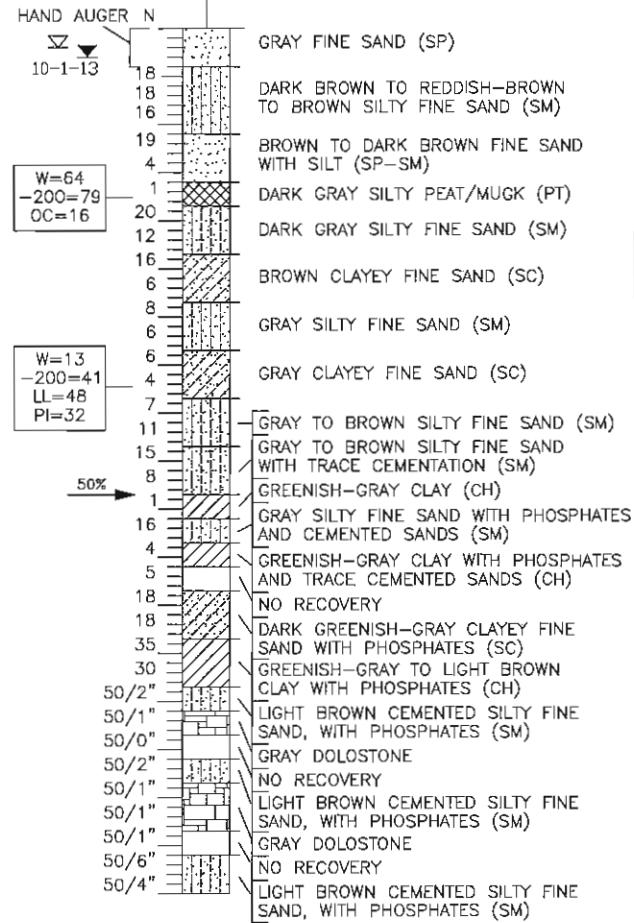
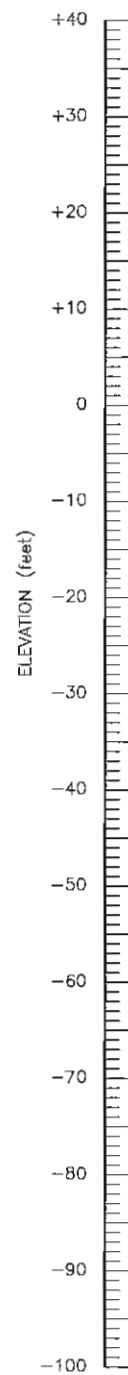
LATITUDE/LONGITUDE  
28.81109° N  
081.44980° W

WL2-B43  
822+93  
126' LT.  
+29.5'

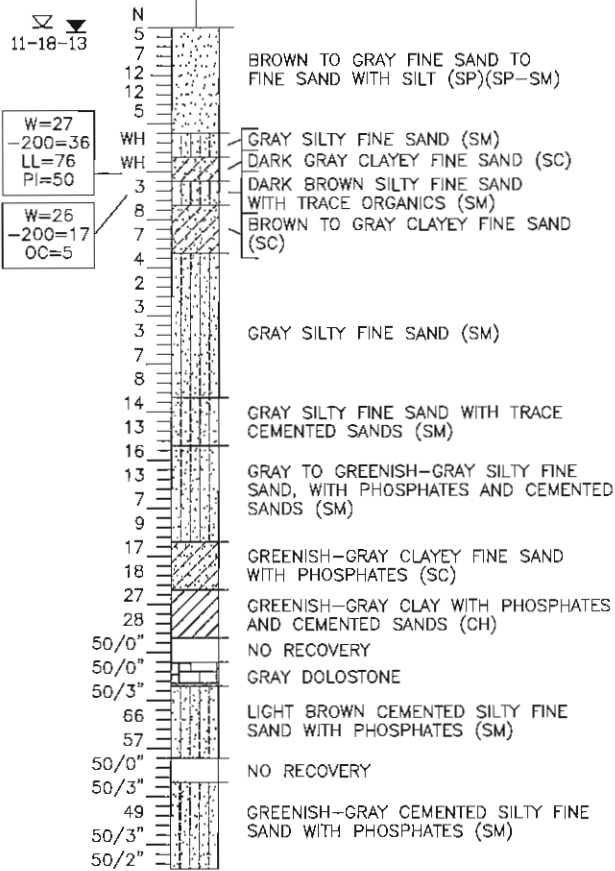
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28.81162° N  
081.44945° W

WL2-B45  
823+90  
67' RT.  
+31.2'

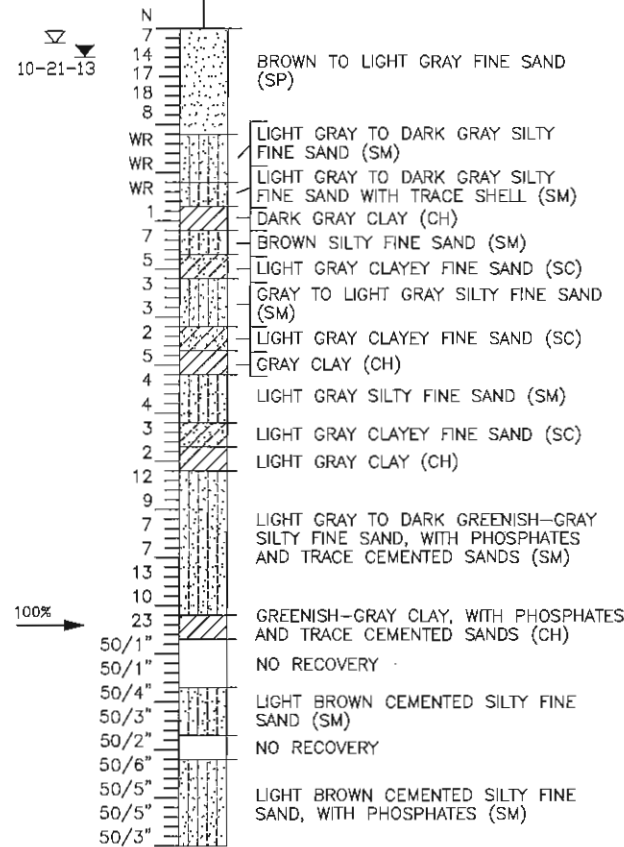
LATITUDE/LONGITUDE  
28.81104° N  
081.44915° W



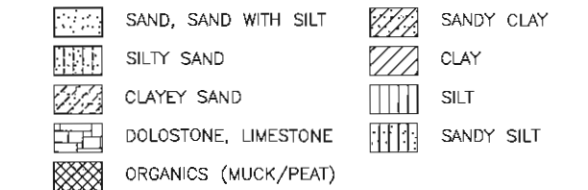
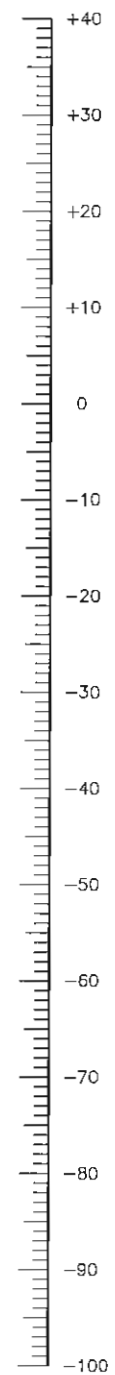
BORING TERM. @ 90'  
CASING TO 50'  
BORING DRILLED: 10-1-13  
RIG TYPE: D-50  
HAMMER TYPE: AUTOMATIC



BORING TERM. @ 87.5'  
CASING TO 55'  
BORING DRILLED: 11-18-13  
RIG TYPE: D-50  
HAMMER TYPE: AUTOMATIC



BORING TERM. @ 85'  
CASING TO 70'  
BORING DRILLED: 10-21-13  
RIG TYPE: CME-45C  
HAMMER TYPE: AUTOMATIC



(SP) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL  
ENCOUNTERED GROUNDWATER LEVEL  
DATE NOTED  
ESTIMATED NORMAL SEASONAL HIGH GROUNDWATER LEVEL  
GNE-10' GROUNDWATER LEVEL NOT ENCOUNTERED TO DEPTH OF 10 FEET  
W=0  
-200=0  
LL=0  
PI=0  
NP  
OC=0  
NATURAL MOISTURE CONTENT (%)  
FINES PASSING No. 200 SIEVE (%)  
LIQUID LIMIT (%)  
PLASTICITY INDEX  
NON-PLASTIC  
ORGANIC CONTENT (%)

100% LOSS OF DRILLING FLUID CIRCULATION (PERCENT NOTED)  
N STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT UNLESS OTHERWISE NOTED  
50/6" NUMBER OF BLOWS REQUIRED (50) TO ADVANCE SAMPLE SPOON (6) INCHES  
WR WEIGHT OF DRILL ROD SUFFICIENT TO ADVANCE SAMPLE SPOON  
WH WEIGHT OF ROD AND HAMMER SUFFICIENT TO ADVANCE SAMPLE SPOON

STANDARD PENETRATION TEST DATA  
AUTOMATIC HAMMER  
SPOON INSIDE DIA. 1 3/8 in.  
SPOON OUTSIDE DIA. 2 in.  
ASTM STANDARD AUTOMATIC HAMMER  
AVG. HAMMER DROP 30 in.  
HAMMER WEIGHT 140 lbs.

GRANULAR MATERIALS  
RELATIVE DENSITY (BLOWS/FOOT)  
VERY LOOSE LESS THAN 3  
LOOSE 3-8  
MEDIUM DENSE 8-24  
DENSE 24-40  
VERY DENSE GREATER THAN 40

SILTS AND CLAYS  
CONSISTENCY (BLOWS/FOOT)  
VERY SOFT LESS THAN 1  
SOFT 1-3  
FIRM 3-6  
STIFF 6-12  
VERY STIFF 12-24  
HARD GREATER THAN 24

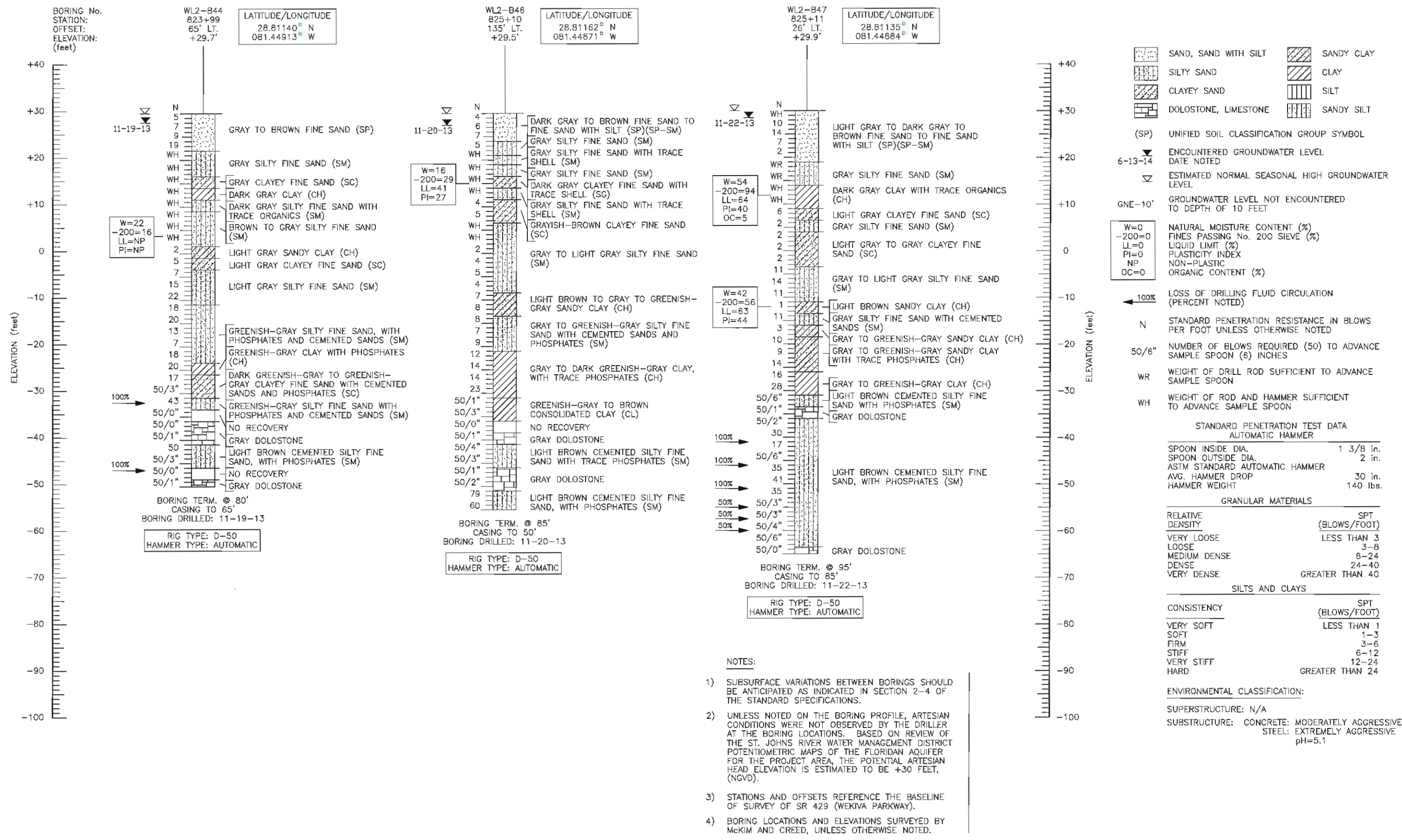
ENVIRONMENTAL CLASSIFICATION:  
SUPERSTRUCTURE: N/A  
SUBSTRUCTURE: CONCRETE: MODERATELY AGGRESSIVE  
STEEL: EXTREMELY AGGRESSIVE  
pH=5.9

- NOTES:
- SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS.
  - UNLESS NOTED ON THE BORING PROFILE, ARTESIAN CONDITIONS WERE NOT OBSERVED BY THE DRILLER AT THE BORING LOCATIONS. BASED ON REVIEW OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT POTENTIOMETRIC MAPS OF THE FLORIDAN AQUIFER FOR THE PROJECT AREA, THE POTENTIAL ARTESIAN HEAD ELEVATION IS ESTIMATED TO BE +30 FEET, (NGVD).
  - STATIONS AND OFFSETS REFERENCE THE BASELINE OF SURVEY OF SR 429 (WEKIVA PARKWAY).
  - BORING LOCATIONS AND ELEVATIONS SURVEYED BY McKIM AND CREED, UNLESS OTHERWISE NOTED.

WILDLIFE CROSSING No. 2

REVISIONS						DRAWN BY: SW 12-3-14	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF SPT BORINGS FOR STRUCTURES	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR 429	LAKE SEMINOLE	238275-7-32-02	WEKIVA PARKWAY (SR 429/SR 46) SECTION 6	

RICHARD G. ACREE, P.E.  
P.E. LICENSE NUMBER 53962  
1675 LEE ROAD  
WINTER PARK, FLORIDA 32789  
TERRACON  
CERTIFICATE OF AUTHORIZATION No. 8830



WILDLIFE CROSSING No. 2

REVISIONS						DRAWN BY: SW 12-3-14	CHECKED BY: ENJ 12-3-14	DESIGNED BY: SR 429	CHECKED BY:	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF SPT BORINGS FOR STRUCTURES	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
										SR 429	LAKE SEMINOLE	238275-7-32-02	WEKIVA PARKWAY (SR 429/SR 46) SECTION 6	

RICHARD G. ACREE, P.E.  
P.E. LICENSE NUMBER 53962  
1675 LEE ROAD  
WINTER PARK, FLORIDA 32789  
TERRACON  
CERTIFICATE OF AUTHORIZATION No. 8830



- NOTES:**
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  - STATIONS AND OFFSETS REFERENCE THE BASELINE OF SURVEY OF SR 429 (WEKIVA PARKWAY).
  - BORING LOCATIONS AND ELEVATIONS SURVEYED BY McKIM AND CREED, UNLESS OTHERWISE NOTED.

Dec03, 2014-2:17pm

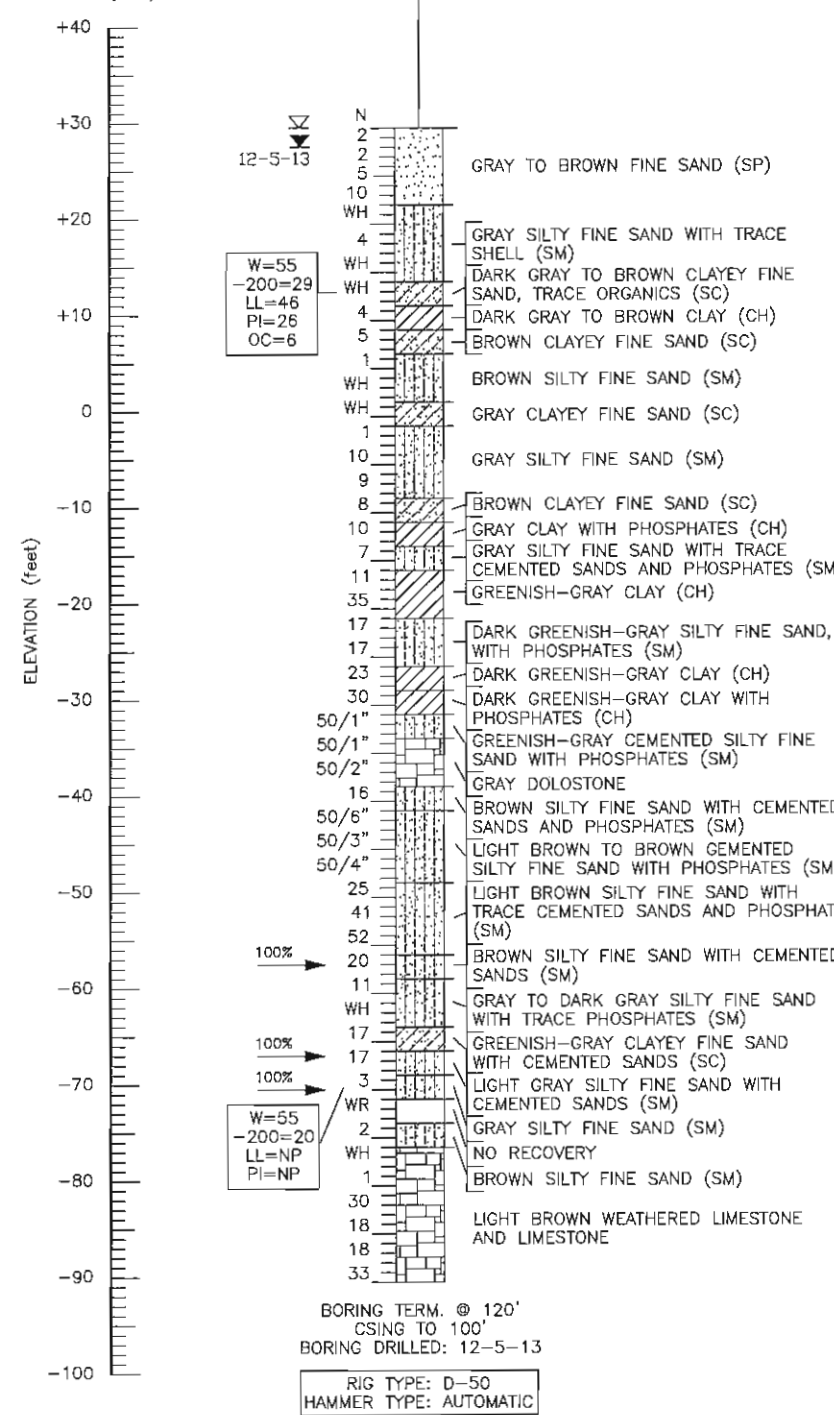
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DATE	BY	DESCRIPTION	DESCRIPTION		DEPARTMENT OF TRANSPORTATION				
				CHECKED BY: ENJ 12-3-14	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: WEKIVA PARKWAY (SR 429/SR 46) SECTION 6	SHEET NO. -
				DESIGNED BY:	SR 429	LAKE SEMINOLE	238275-7-32-02		
				CHECKED BY:					

RICHARD G. ACREE, P.E.  
P.E. LICENSE NUMBER 53962  
1675 LEE ROAD  
WINTER PARK, FLORIDA 32789  
TERRACON  
CERTIFICATE OF AUTHORIZATION No. 8830

WILDLIFE CROSSING No. 2

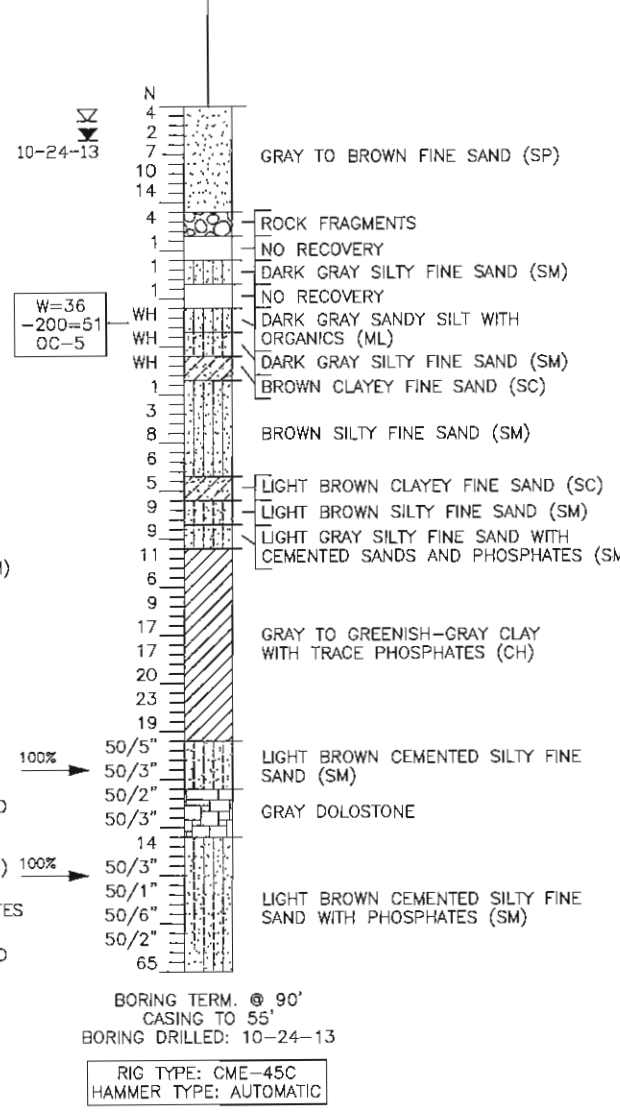
BORING No. WL2-B51  
 STATION: 827+56  
 OFFSET: 8' LT.  
 ELEVATION: +29.8'  
 (feet)

LATITUDE/LONGITUDE  
 28.81140° N  
 081.44804° W



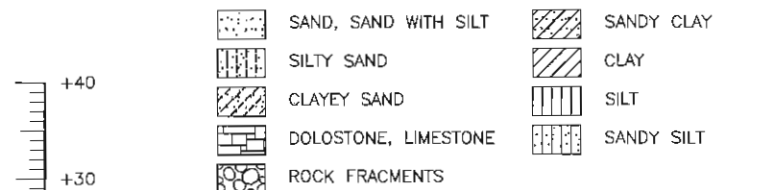
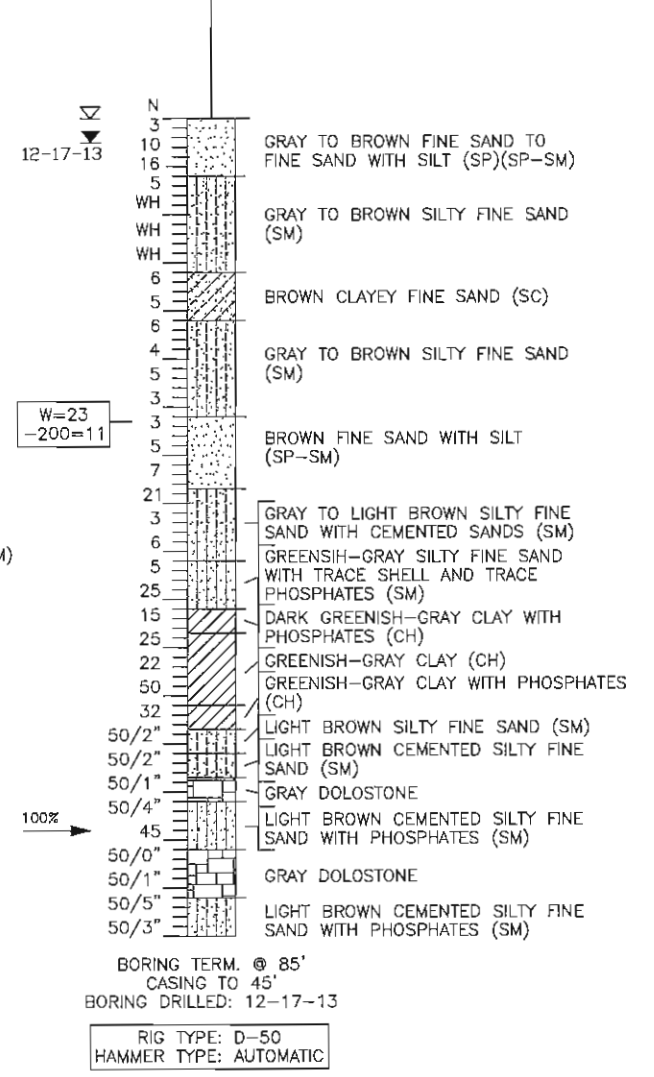
BORING No. WL2-B53  
 STATION: 828+53  
 OFFSET: 70' RT.  
 ELEVATION: +31.6'

LATITUDE/LONGITUDE  
 28.81108° N  
 081.44767° W



BORING No. WL2-B52  
 STATION: 828+58  
 OFFSET: 61' LT.  
 ELEVATION: +29.9'

LATITUDE/LONGITUDE  
 28.81148° N  
 081.44772° W



(SP) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL  
 ENCOUNTERED GROUNDWATER LEVEL DATE NOTED  
 ESTIMATED NORMAL SEASONAL HIGH GROUNDWATER LEVEL  
 GNE-10' GROUNDWATER LEVEL NOT ENCOUNTERED TO DEPTH OF 10 FEET  
 NATURAL MOISTURE CONTENT (%)  
 FINES PASSING No. 200 SIEVE (%)  
 LIQUID LIMIT (%)  
 PLASTICITY INDEX  
 NP NON-PLASTIC  
 OC=0 ORGANIC CONTENT (%)

100% LOSS OF DRILLING FLUID CIRCULATION (PERCENT NOTED)  
 N STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT UNLESS OTHERWISE NOTED  
 50/6" NUMBER OF BLOWS REQUIRED (50) TO ADVANCE SAMPLE SPOON (6) INCHES  
 WR WEIGHT OF DRILL ROD SUFFICIENT TO ADVANCE SAMPLE SPOON  
 WH WEIGHT OF ROD AND HAMMER SUFFICIENT TO ADVANCE SAMPLE SPOON

STANDARD PENETRATION TEST DATA  
 AUTOMATIC HAMMER

SPOON INSIDE DIA.	1 3/8 in.
SPOON OUTSIDE DIA.	2 in.
ASTM STANDARD AUTOMATIC HAMMER	
AVG. HAMMER DROP	30 in.
HAMMER WEIGHT	140 lbs.

GRANULAR MATERIALS

RELATIVE DENSITY	SPT (BLOWS/FOOT)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40

SILTS AND CLAYS

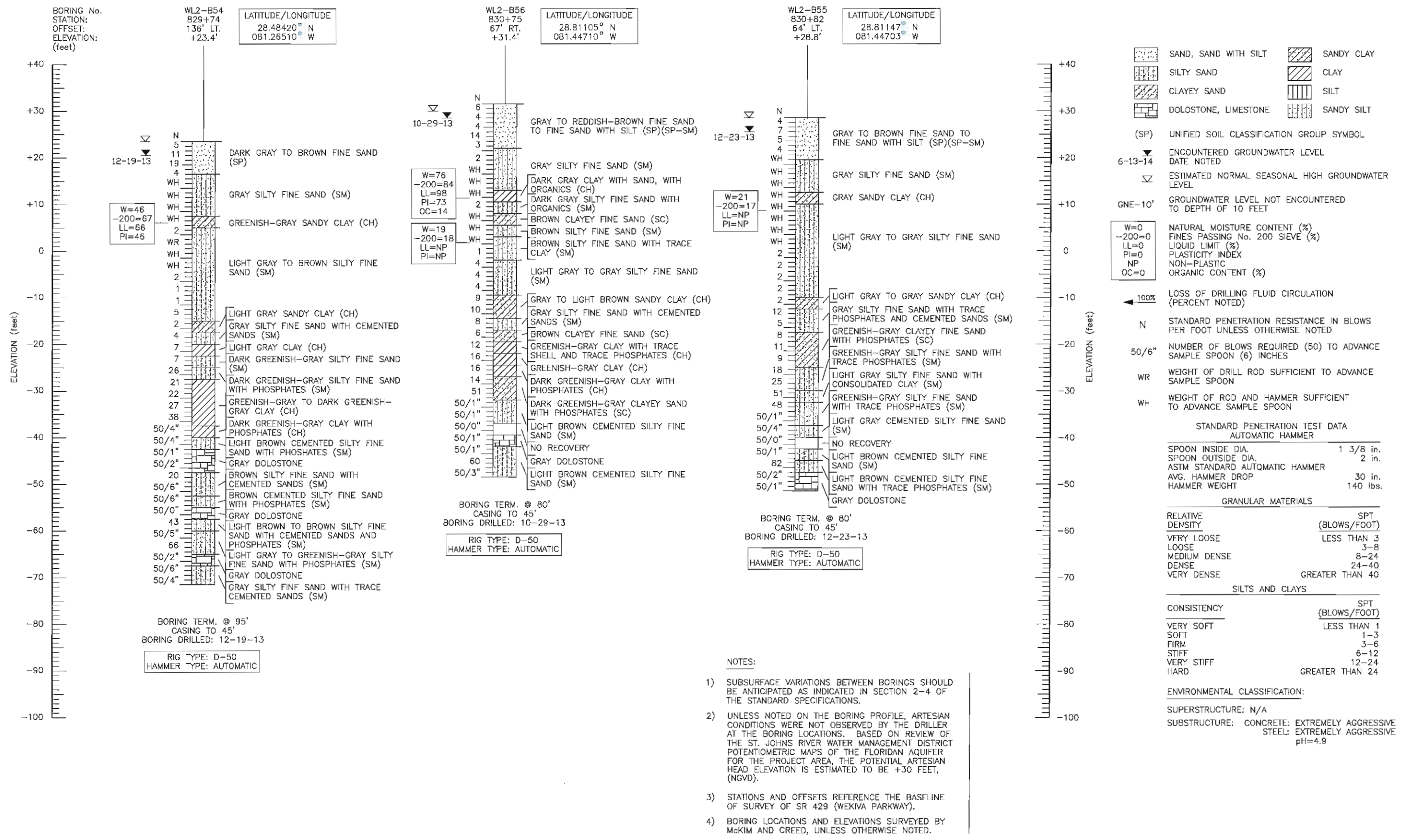
CONSISTENCY	SPT (BLOWS/FOOT)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

ENVIRONMENTAL CLASSIFICATION:  
 SUPERSTRUCTURE: N/A  
 SUBSTRUCTURE: CONCRETE: EXTREMELY AGGRESSIVE  
 STEEL: EXTREMELY AGGRESSIVE  
 pH=4.9

- NOTES:
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  - BORING LOCATIONS AND ELEVATIONS SURVEYED BY MCKIM AND CREED, UNLESS OTHERWISE NOTED.

WILDLIFE CROSSING No. 2

<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							<p>RICHARD G. ACREE, P.E.          P.E. LICENSE NUMBER 53962          1675 LEE ROAD          WINTER PARK, FLORIDA 32789          TERRACON          CERTIFICATE OF AUTHORIZATION No. 8830</p>		<p>DRAWN BY: SW 12-3-14          CHECKED BY: ENJ 12-3-14          DESIGNED BY:          CHECKED BY:</p>		<p>STATE OF FLORIDA          DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <tr> <td>ROAD NO.</td> <td>COUNTY</td> <td>FINANCIAL PROJECT ID</td> </tr> <tr> <td>SR 429</td> <td>LAKE SEMINOLE</td> <td>238275-7-32-02</td> </tr> </table>		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 429	LAKE SEMINOLE	238275-7-32-02	<p>SHEET TITLE:          REPORT OF SPT BORINGS FOR STRUCTURES</p> <p>PROJECT NAME:          WEKIVA PARKWAY (SR 429/SR 46)          SECTION 6</p>		<p>REF. DWG. NO.          SHEET NO.          -</p>
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SR 429	LAKE SEMINOLE	238275-7-32-02																												



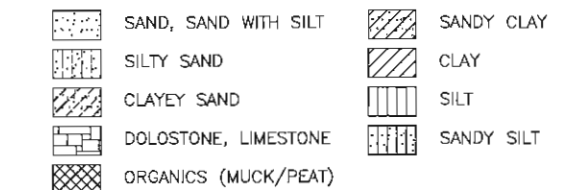
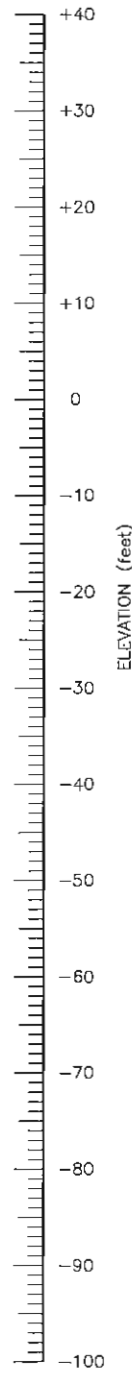
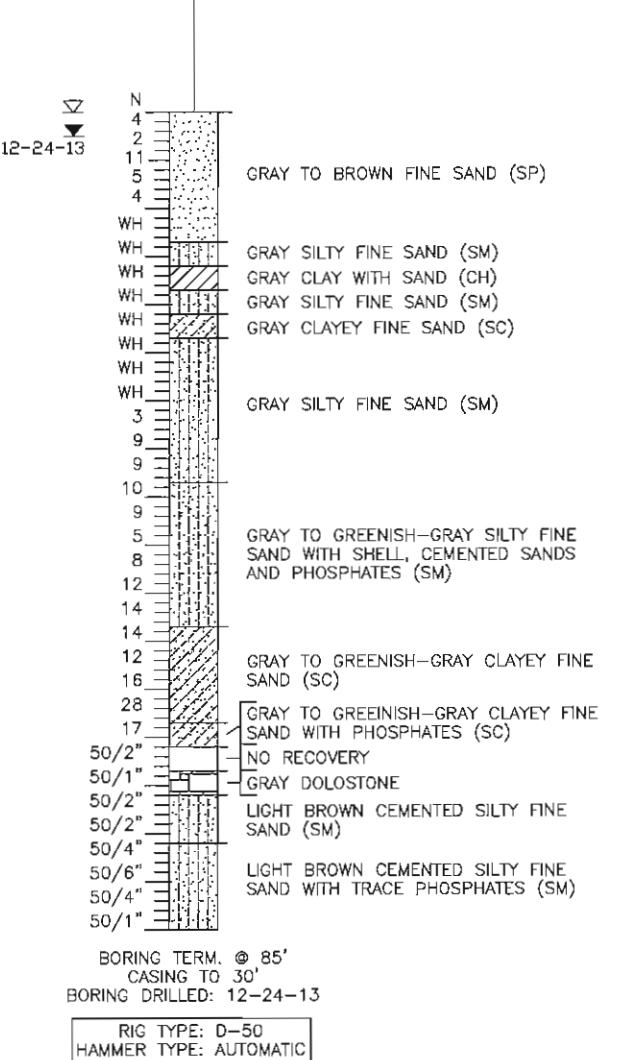
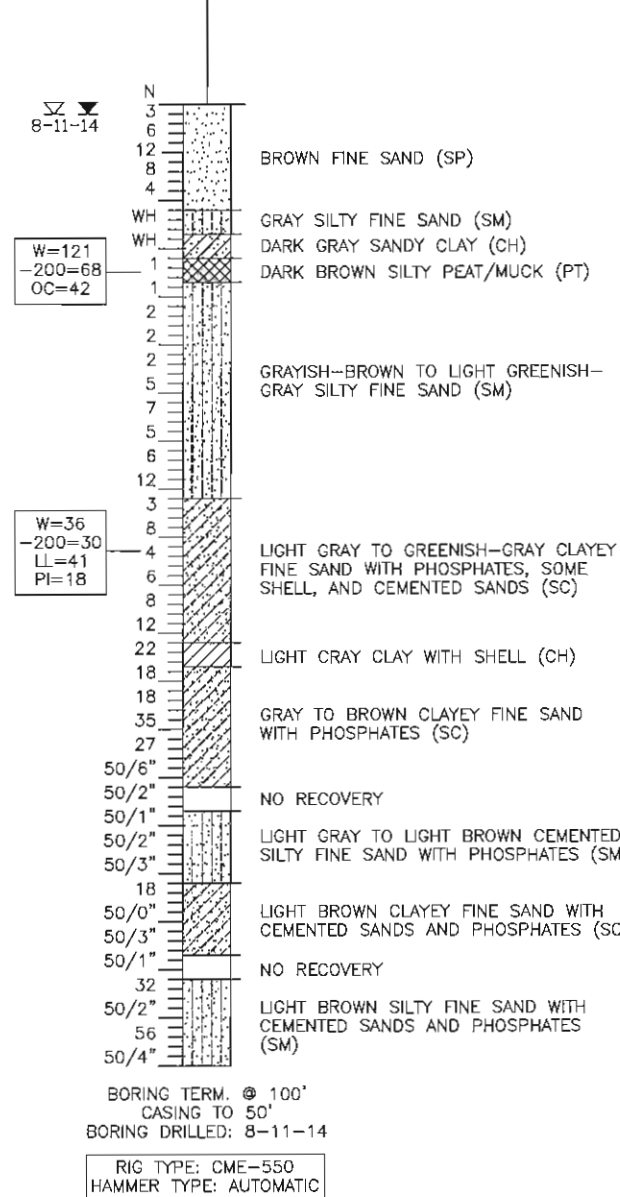
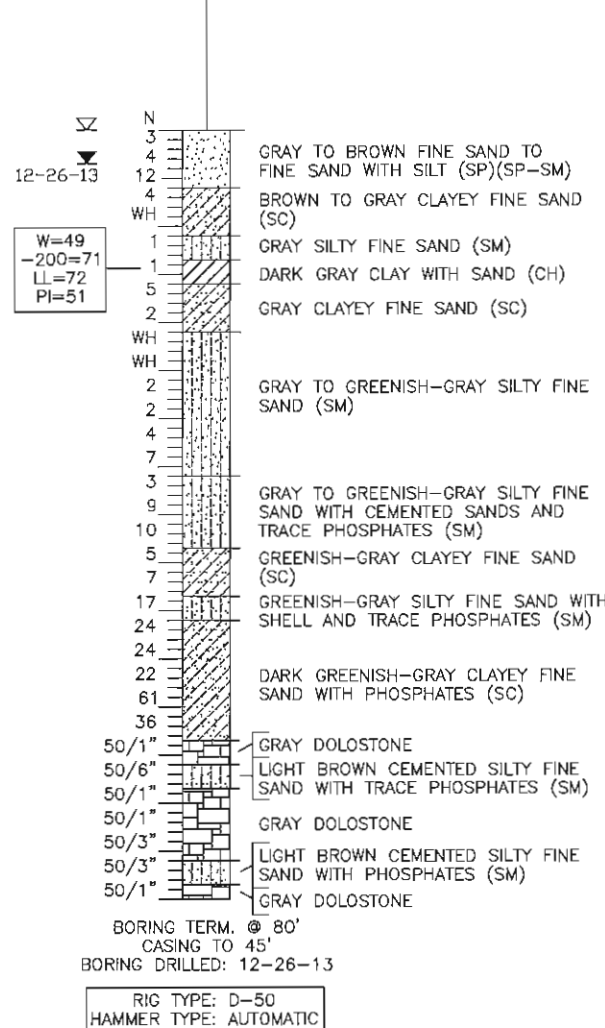
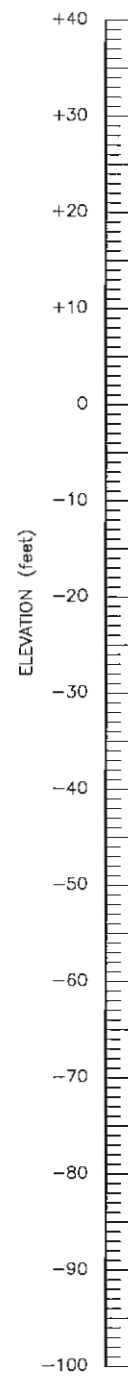
WILDLIFE CROSSING No. 2

<b>REVISIONS</b> DATE BY DESCRIPTION DATE BY DESCRIPTION				RICHARD G. ACREE, P.E. P.E. LICENSE NUMBER 53962 1675 LEE ROAD WINTER PARK, FLORIDA 32789 TERRACON CERTIFICATE OF AUTHORIZATION No. 8830	DRAWN BY: SW 12-3-14	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE: REPORT OF SPT BORINGS FOR STRUCTURES	REF. DWG. NO.
					CHECKED BY: ENJ 12-3-14	ROAD NO. SR 429	COUNTY LAKE SEMINOLE	FINANCIAL PROJECT ID 238275-7-32-02	PROJECT NAME: WEKIVA PARKWAY (SR 429/SR 46) SECTION 6

BORING No. WL2-B57  
STATION: 831+95  
OFFSET: 140' LT.  
ELEVATION: +28.7'  
LATITUDE/LONGITUDE  
28.81171° N  
081.44660° W

BORING No. WL2-B60A  
STATION: 831+95  
OFFSET: APPROX. +31'  
ELEVATION: +31.0'  
LATITUDE/LONGITUDE  
28.81109° N  
081.44659° W

BORING No. WL2-B58  
STATION: 831+95  
OFFSET: 24' LT.  
ELEVATION: +30.0'  
LATITUDE/LONGITUDE  
28.81139° N  
081.44641° W



(SP) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL  
ENCOUNTERED GROUNDWATER LEVEL DATE NOTED  
ESTIMATED NORMAL SEASONAL HIGH GROUNDWATER LEVEL  
GROUNDWATER LEVEL NOT ENCOUNTERED TO DEPTH OF 10 FEET  
NATURAL MOISTURE CONTENT (%)  
FINES PASSING No. 200 SIEVE (%)  
LIQUID LIMIT (%)  
PLASTICITY INDEX  
NON-PLASTIC  
ORGANIC CONTENT (%)

LOSS OF DRILLING FLUID CIRCULATION (PERCENT NOTED)  
STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT UNLESS OTHERWISE NOTED  
NUMBER OF BLOWS REQUIRED (50) TO ADVANCE SAMPLE SPOON (6) INCHES  
WEIGHT OF DRILL ROD SUFFICIENT TO ADVANCE SAMPLE SPOON  
WEIGHT OF ROD AND HAMMER SUFFICIENT TO ADVANCE SAMPLE SPOON

STANDARD PENETRATION TEST DATA  
AUTOMATIC HAMMER

SPOON INSIDE DIA.	1 3/8 in.
SPOON OUTSIDE DIA.	2 in.
ASTM STANDARD AUTOMATIC HAMMER	
AVG. HAMMER DROP	30 in.
HAMMER WEIGHT	140 lbs.

GRANULAR MATERIALS

RELATIVE DENSITY	SPT (BLOWS/FOOT)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40

SILTS AND CLAYS

CONSISTENCY	SPT (BLOWS/FOOT)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

ENVIRONMENTAL CLASSIFICATION:  
SUPERSTRUCTURE: N/A  
SUBSTRUCTURE: CONCRETE: EXTREMELY AGGRESSIVE  
STEEL: EXTREMELY AGGRESSIVE  
pH=4.6

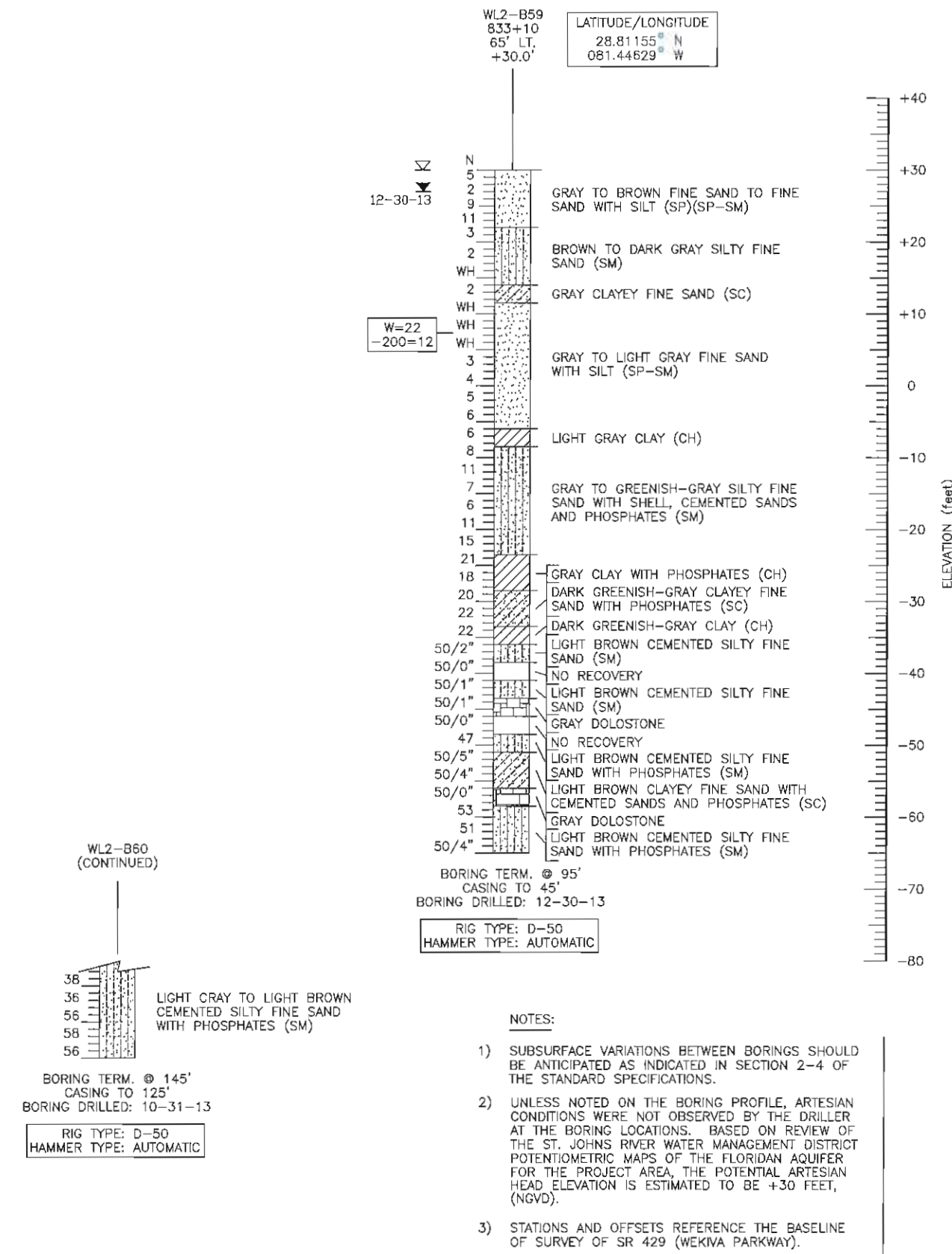
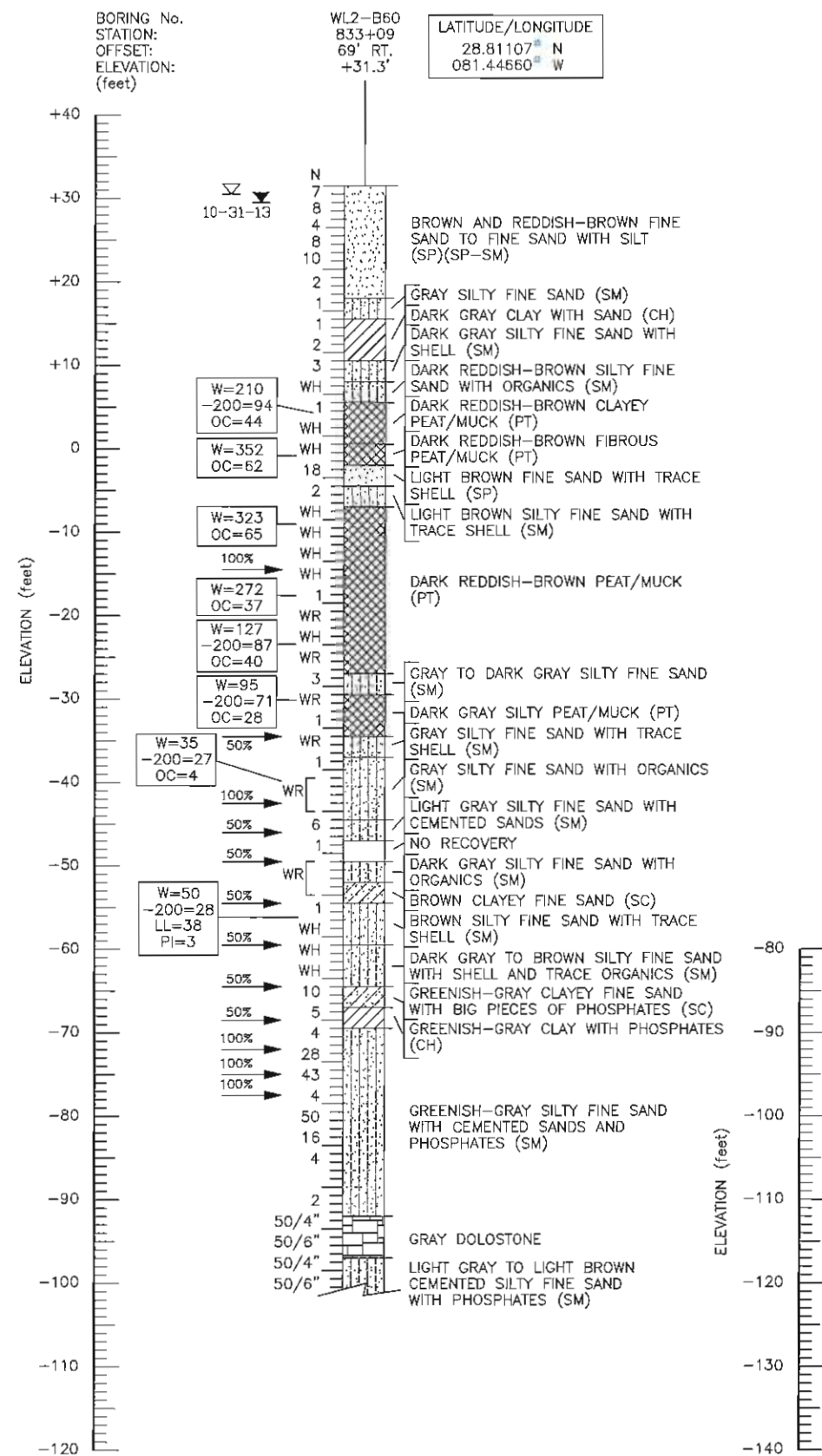
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WILDLIFE CROSSING No. 2

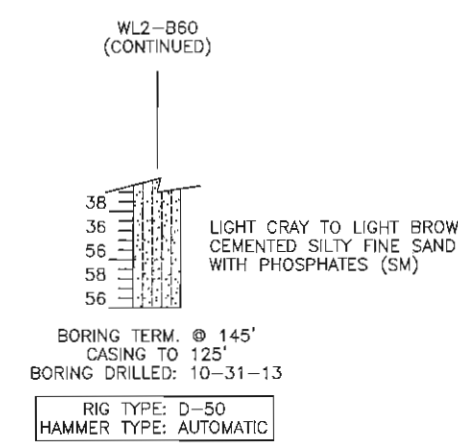
Dec08, 2014-10:17am

REVISIONS						DRAWN BY: SW 12-3-14 CHECKED BY: ENJ 12-3-14 DESIGNED BY: SR 429 CHECKED BY:	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE: <b>REPORT OF SPT BORINGS FOR STRUCTURES</b>	REF. DWG. NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY			FINANCIAL PROJECT ID
							SR 429	LAKE SEMINOLE	238275-7-32-02	WEKIVA PARKWAY (SR 429/SR 46) SECTION 6	
						RICHARD G. ACREE, P.E. P.E. LICENSE NUMBER 53962 1675 LEE ROAD WINTER PARK, FLORIDA 32789 TERRACON CERTIFICATE OF AUTHORIZATION No. 8830				SHEET NO. -	





	SAND, SAND WITH SILT		SILTY SAND
	CLAYEY SAND		CLAY
	DOLOSTONE, LIMESTONE		SILT
	ORGANICS (MUCK/PEAT)		SANDY SILT
(SP)	UNIFIED SOIL CLASSIFICATION GROUP SYMBOL		
▼	ENCOUNTERED GROUNDWATER LEVEL		
▽	ESTIMATED NORMAL SEASONAL HIGH GROUNDWATER LEVEL		
GNE-10'	GROUNDWATER LEVEL NOT ENCOUNTERED TO DEPTH OF 10 FEET		
W=0	NATURAL MOISTURE CONTENT (%)		
-200=0	FINES PASSING No. 200 SIEVE (%)		
LL=0	LIQUID LIMIT (%)		
PI=D	PLASTICITY INDEX		
NP	NON-PLASTIC		
OC=0	ORGANIC CONTENT (%)		
← 100%	LOSS OF DRILLING FLUID CIRCULATION (PERCENT NOTED)		
N	STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT UNLESS OTHERWISE NOTED		
50/6"	NUMBER OF BLOWS REQUIRED (50) TO ADVANCE SAMPLE SPOON (6) INCHES		
WR	WEIGHT OF DRILL ROD SUFFICIENT TO ADVANCE SAMPLE SPOON		
WH	WEIGHT OF ROD AND HAMMER SUFFICIENT TO ADVANCE SAMPLE SPOON		
STANDARD PENETRATION TEST DATA			
AUTOMATIC HAMMER			
SPOON INSIDE DIA.	1 3/8 in.		
SPOON OUTSIDE DIA.	2 in.		
ASTM STANDARD AUTOMATIC HAMMER			
AVG. HAMMER DROP	30 in.		
HAMMER WEIGHT	140 lbs.		
GRANULAR MATERIALS			
RELATIVE DENSITY	(BLOWS/FOOT)		
VERY LOOSE	LESS THAN 3		
LOOSE	3-8		
MEDIUM DENSE	8-24		
DENSE	24-40		
VERY DENSE	GREATER THAN 40		
SILTS AND CLAYS			
CONSISTENCY	(BLOWS/FOOT)		
VERY SOFT	LESS THAN 1		
SOFT	1-3		
FIRM	3-6		
STIFF	6-12		
VERY STIFF	12-24		
HARD	GREATER THAN 24		
ENVIRONMENTAL CLASSIFICATION:			
SUPERSTRUCTURE: N/A			
SUBSTRUCTURE: CONCRETE: EXTREMELY AGGRESSIVE			
STEEL: EXTREMELY AGGRESSIVE			
pH=4.6			



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Dec03, 2014-2:59pm

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

**RICHARD G. ACREE, P.E.**  
 P.E. LICENSE NUMBER 53962  
 1675 LEE ROAD  
 WINTER PARK, FLORIDA 32789  
 TERRACON  
 CERTIFICATE OF AUTHORIZATION No. 8830

**STATE OF FLORIDA**  
**DEPARTMENT OF TRANSPORTATION**

ROAD NO. SR 429      COUNTY LAKE SEMINOLE      FINANCIAL PROJECT ID 238275-7-32-02

**REPORT OF SPT BORINGS FOR STRUCTURES**

PROJECT NAME: WEKIVA PARKWAY (SR 429/SR 46) SECTION 6

REF. DWG. NO.      SHEET NO.      -

**WILDLIFE CROSSING No. 2**

BORING No.  
STATION:  
OFFSET:  
ELEVATION:  
(feet)

WL2-B62  
834+23  
29' LT.  
+30.5'

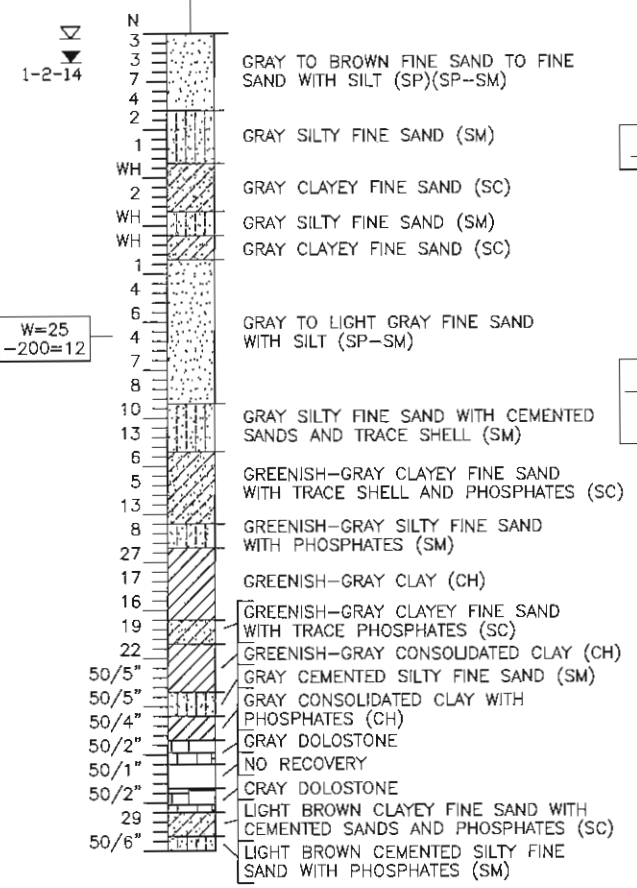
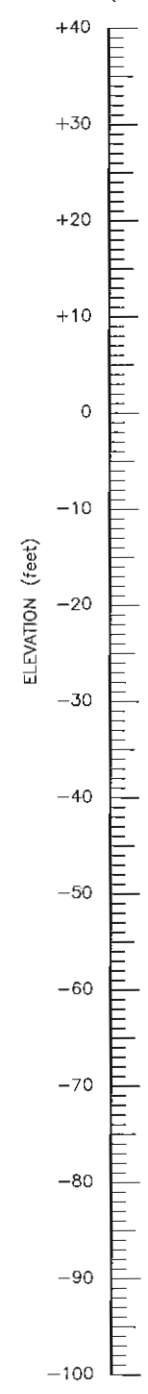
LATITUDE/LONGITUDE  
28.81117° N  
081.44606° W

WL2-B60B  
834+25  
70' RT.  
APPROX. +32'

LATITUDE/LONGITUDE  
28.81108° N  
081.44588° W

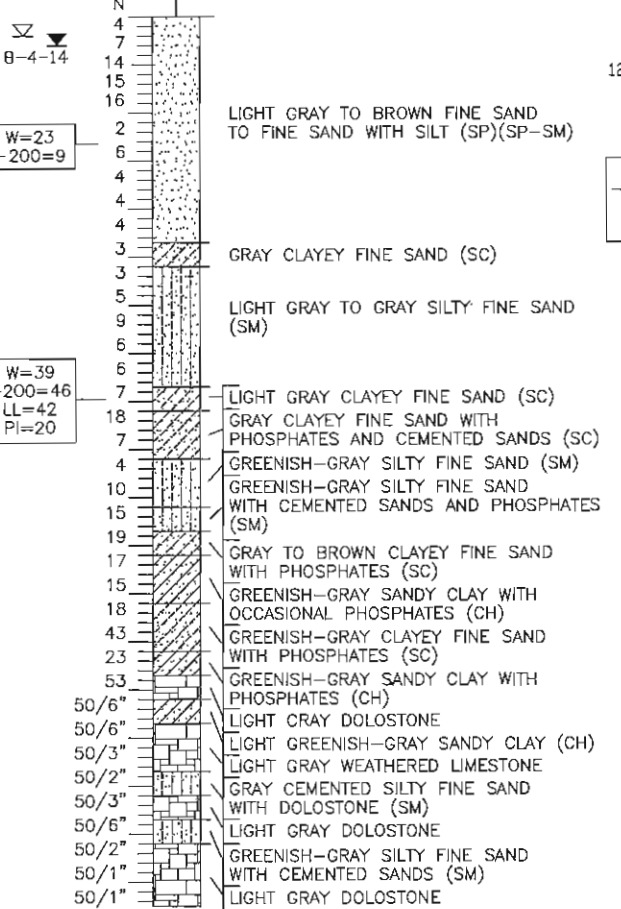
WL2-B61  
834+36  
109' LT.  
+29.6'

LATITUDE/LONGITUDE  
28.81144° N  
081.44633° W



W=25  
-200=12

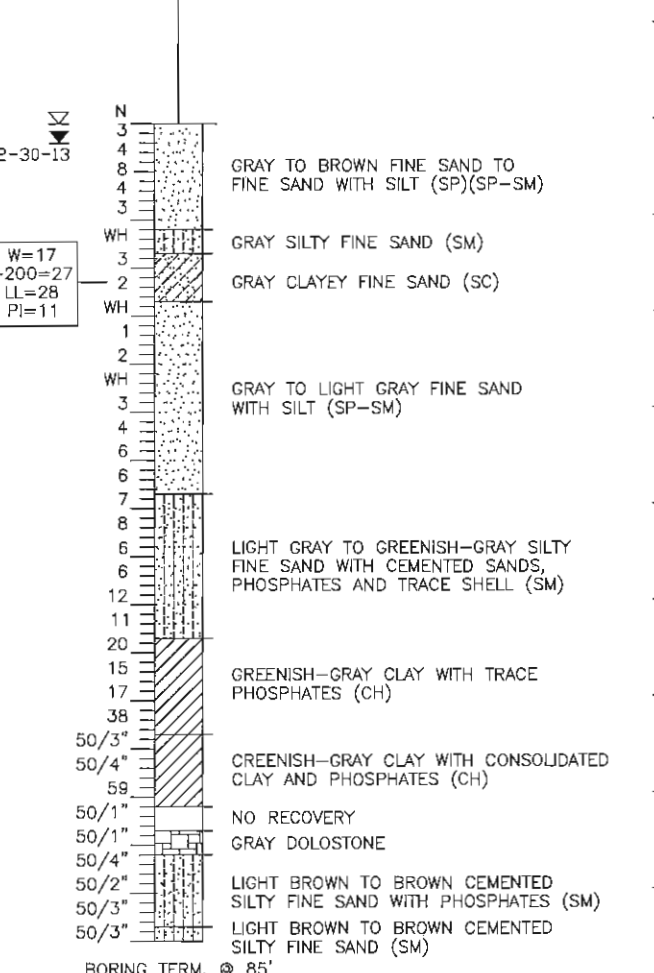
BORING TERM. @ 85'  
NO CASING  
BORING DRILLED: 1-2-14  
RIG TYPE: CME-550X  
HAMMER TYPE: AUTOMATIC



W=23  
-200=9

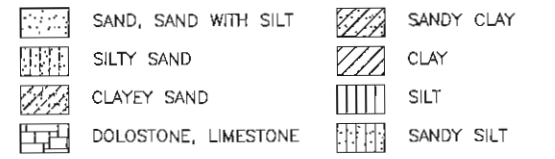
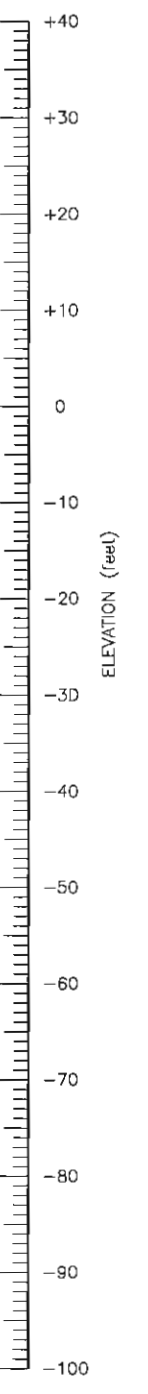
W=39  
-200=46  
LL=42  
PI=20

BORING TERM. @ 92.5'  
CASING TO 85'  
BORING DRILLED: 8-4-14  
RIG TYPE: D-50  
HAMMER TYPE: AUTOMATIC



W=17  
-200=27  
LL=28  
PI=11

BORING TERM. @ 85'  
NO CASING  
BORING DRILLED: 12-30-13  
RIG TYPE: CME-550X  
HAMMER TYPE: AUTOMATIC



(SP) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL  
ENCOUNTERED GROUNDWATER LEVEL DATE NOTED  
ESTIMATED NORMAL SEASONAL HIGH GROUNDWATER LEVEL  
GROUNDWATER LEVEL NOT ENCOUNTERED TO DEPTH OF 10 FEET  
NATURAL MOISTURE CONTENT (%)  
FINES PASSING No. 200 SIEVE (%)  
LIQUID LIMIT (%)  
PLASTICITY INDEX  
NON-PLASTIC  
ORGANIC CONTENT (%)

LOSS OF DRILLING FLUID CIRCULATION (PERCENT NOTED)  
STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT UNLESS OTHERWISE NOTED  
NUMBER OF BLOWS REQUIRED (50) TO ADVANCE SAMPLE SPOON (6) INCHES  
WEIGHT OF DRILL ROD SUFFICIENT TO ADVANCE SAMPLE SPOON  
WEIGHT OF ROD AND HAMMER SUFFICIENT TO ADVANCE SAMPLE SPOON

STANDARD PENETRATION TEST DATA  
AUTOMATIC HAMMER  
SPOON INSIDE DIA. 1 3/8 in.  
SPOON OUTSIDE DIA. 2 in.  
ASTM STANDARD AUTOMATIC HAMMER  
AVG. HAMMER DROP 30 in.  
HAMMER WEIGHT 140 lbs.

GRANULAR MATERIALS  
RELATIVE DENSITY (BLOWS/FOOT) SPT  
VERY LOOSE LESS THAN 3  
LOOSE 3-8  
MEDIUM DENSE 8-24  
DENSE 24-40  
VERY DENSE GREATER THAN 40

SILTS AND CLAYS  
CONSISTENCY (BLOWS/FOOT) SPT  
VERY SOFT LESS THAN 1  
SOFT 1-3  
FIRM 3-6  
STIFF 6-12  
VERY STIFF 12-24  
HARD GREATER THAN 24

ENVIRONMENTAL CLASSIFICATION:  
SUPERSTRUCTURE: N/A  
SUBSTRUCTURE: CONCRETE: MODERATELY AGGRESSIVE  
STEEL: EXTREMELY AGGRESSIVE  
pH=5.6

- NOTES:
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WILDLIFE CROSSING No. 2

Dec03, 2014 - 2:45pm

REVISIONS						DRAWN BY: SW 12-3-14	CHECKED BY: ENJ 12-3-14	DESIGNED BY: SR 429	CHECKED BY:	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF SPT BORINGS FOR STRUCTURES	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
										SR 429	LAKE SEMINOLE	238275-7-32-02	WEKIVA PARKWAY (SR 429/SR 46) SECTION 6	-

RICHARD G. ACREE, P.E.  
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1675 LEE ROAD  
WINTER PARK, FLORIDA 32789  
TERRACON  
CERTIFICATE OF AUTHORIZATION No. 8830

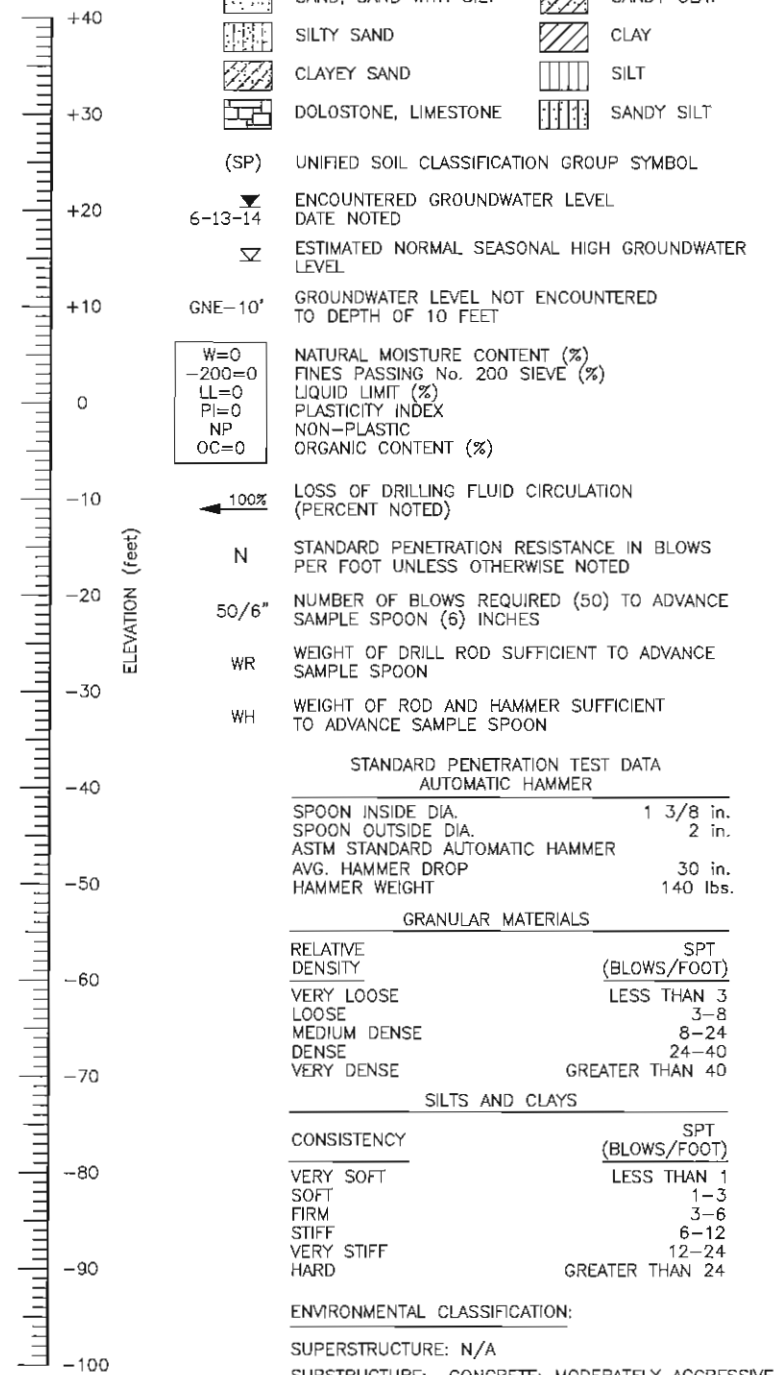
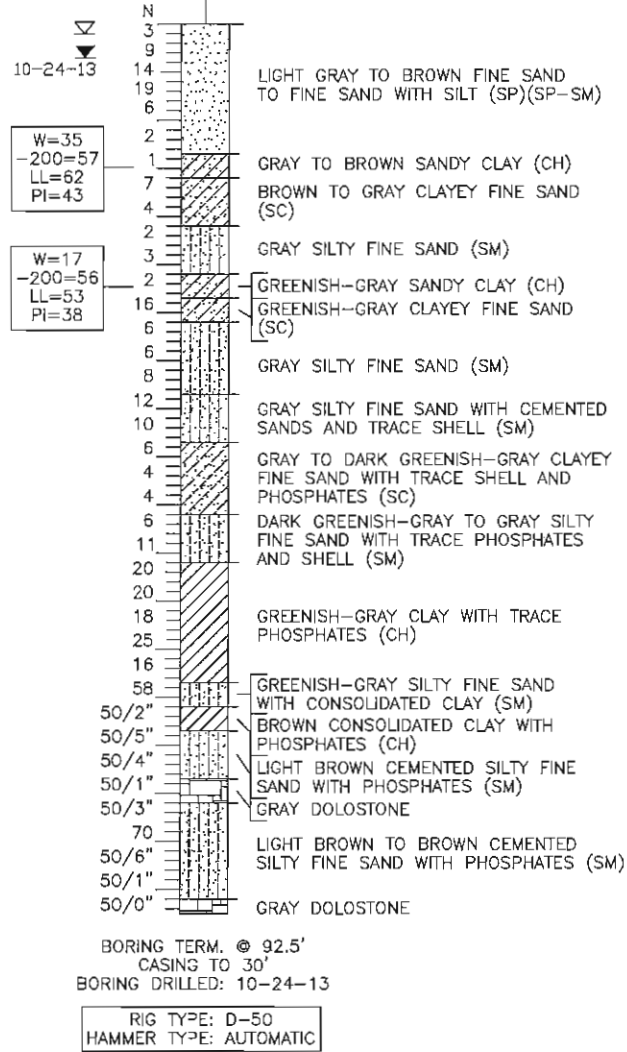
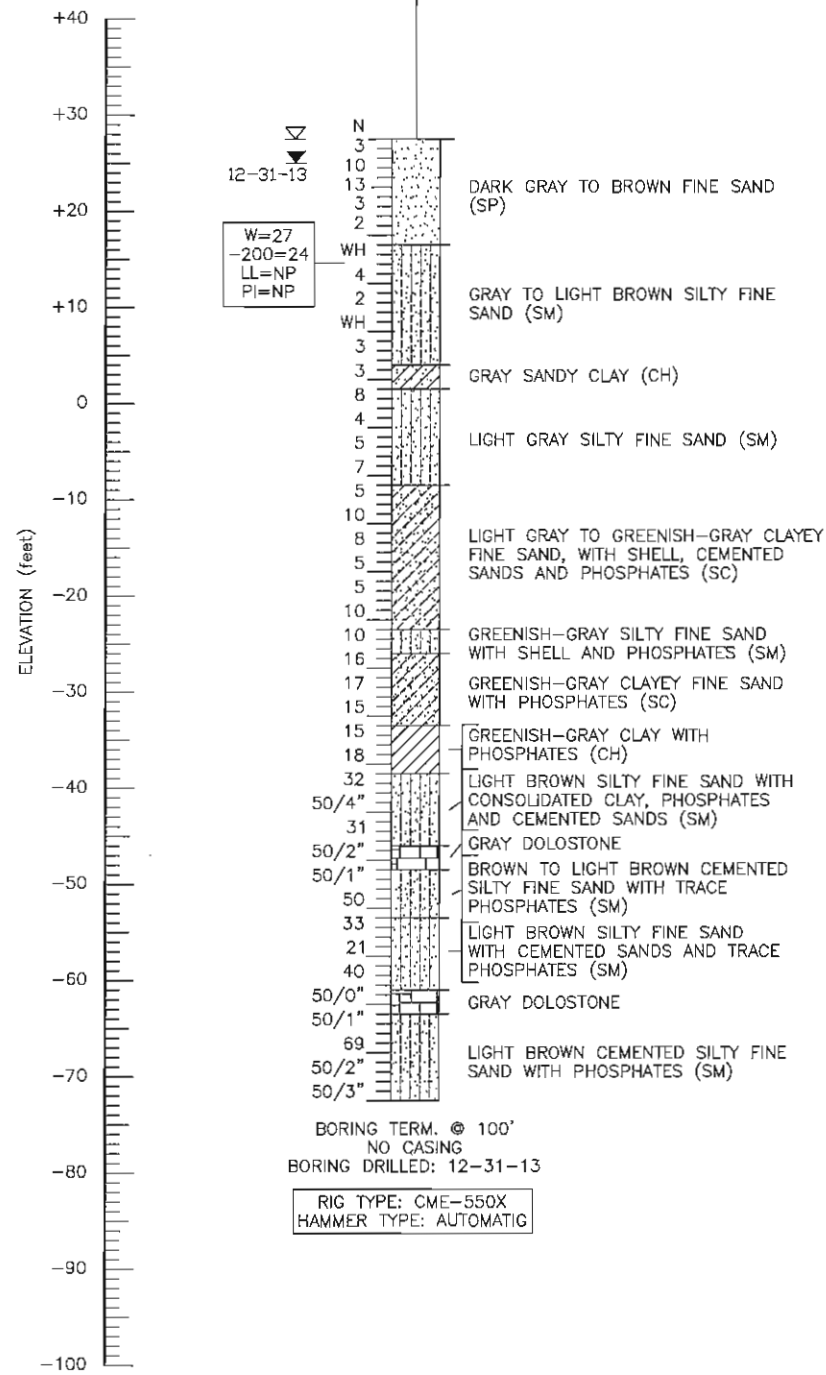
BORING No.  
STATION:  
OFFSET:  
ELEVATION:  
(feet)

WL2-B63  
835+35  
147' LT.  
+27.7'

LATITUDE/LONGITUDE  
28.81136° N  
081.44564° W

WL2-B64  
835+43  
68' RT.  
+31.2'

LATITUDE/LONGITUDE  
28.81111° N  
081.44575° W



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						DESIGNED BY:	SR 429	LAKE SEMINOLE	238275-7-32-02	WEKIVA PARKWAY (SR 429/SR 46)	
						CHECKED BY:				SECTION 6	

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WINTER PARK, FLORIDA 32789  
TERRACON  
CERTIFICATE OF AUTHORIZATION No. 8830

## Preliminary Geotechnical Engineering Report

Wildlife Crossing No. 2 ■ Lake and Seminole Counties, Florida

December 12, 2014 ■ Terracon Project No. H1135080

### Soil Survey Descriptions (Lake County)

AbB / 1 – Sparr sand, 0 to 5 percent slopes. This soil type is nearly level to gently sloping and somewhat poorly drained. It is typically found on uplands of the Coastal Plain. This soil type has a seasonal high water table at a depth of 18 to 42 inches (1.5 to 3.5 feet). This soil type is predominantly sandy to a depth of 48 inches (4 feet). Thereafter, to the maximum defined depth of 99 inches (8.3 feet), this soil type exists as sandy clay or loam.

Ac / 3 – Anclote fine sand. This soil type is nearly level and very poorly drained. It is typically found in depressions, drainageways, and swamps in the Lower Coastal Plain. In its natural state and during years of normal rainfall, groundwater is at the surface to 2 feet above the surface of this soil type from June through December (apparent water table). This soil type is generally predominantly sandy through the defined profile of 80 inches. The upper 16 inches of Anclote fine sand typically has an organic content of between 2 and 9 percent.

Is / 20 – Immokalee sand. This soil type is nearly level and poorly drained. It is typically found in broad areas in the flatwoods and in low areas between sand ridges and lakes, ponds, and sloughs. In its natural state and during years of normal precipitation, this soil type has a seasonal high water table within 10 inches (0.8 feet) of the surface.

Mk / 28 – Myakka sand. This soil map unit consists of areas of poorly drained soils. This soil map unit is typically found on the flatwoods. In its natural state, during years of normal rainfall, the groundwater table is normally between depths of about 6 to 18 inches (0.5 to 1.5 feet) below the ground surface from June through November. This soil type is predominantly sandy throughout the defined profile of 80 inches (6.7 feet).

MpC / 29 – Myakka and Placid sand, 2 to 8 percent slopes. This soil group is nearly level to gently sloping and very poorly drained and poorly drained. It is typically found in low depressional areas. In its natural state and during years of normal precipitation, the water table is at or near the surface most of the year. This soil is predominantly sandy throughout the defined profile of 80 inches (6.7 feet). The upper 20 inches (1.7 feet) of Placid soils have a typical organic content of between 2 and 10 percent. The upper 6 inches of Myakka soils have a typical organic content of between 2 and 7 percent.

Pn / 41 – Pomello sand, 0 to 5 percent slopes. This soil type is nearly level to gently sloping and moderately well drained. It is typically found throughout the flatwoods. This soil type has a seasonal high water table at depth of about 45 inches (3.8 feet) during years of normal rainfall.

## **Preliminary Geotechnical Engineering Report**

Wildlife Crossing No. 2 ■ Lake and Seminole Counties, Florida

December 12, 2014 ■ Terracon Project No. H1135080

### **Field Exploration Description**

The boring locations were laid out at the project site by Terracon personnel. The locations indicated on the attached exhibits were surveyed by McKim & Creed. The locations of the borings should be considered accurate only to the degree implied by the means and methods used to define them.

The SPT soil borings were typically drilled with an ATV-mounted, rotary drilling rig. The ATV-mounted drill rig was equipped with a CME automatic SPT hammer.

The boreholes were advanced with a cutting head and stabilized with the use of bentonite (drillers' mud). Soil samples were obtained by the split spoon sampling procedure in general accordance with the Standard Penetration Test (SPT) procedure. In the split spoon sampling procedure, the number of blows required to advance the sampling spoon the last 12 inches of an 18-inch penetration or the middle 12 inches of a 24-inch penetration by means of a 140-pound hammer with a free fall of 30 inches, is the standard penetration resistance value (N). This value is used to estimate the in-situ relative density of cohesionless soils and the consistency of cohesive soils. The sampling depths and penetration distance, plus the standard penetration resistance values, are shown on the boring profiles.

A CME automatic SPT hammer was used to advance the split-barrel sampler in the majority of the borings performed on this site. A significantly greater efficiency is achieved with the automatic hammer compared to the conventional safety hammer operated with a cathead and rope. This higher efficiency has an appreciable effect on the SPT-N value. The effect of the automatic hammer's efficiency has been considered in the interpretation and analysis of the subsurface information for this report. The automatic hammer "N" value shall be multiplied by 1.24 to convert to the equivalent safety hammer "N" value.

Portions of the samples from the borings were sealed in glass jars to reduce moisture loss, and then the jars were taken to our laboratory for further observation and classification. Upon completion, the boreholes were backfilled with the site soil.

Field logs of each boring were prepared by the drill crew. These logs included visual classifications of the materials encountered during drilling as well as the driller's interpretation of the subsurface conditions between samples. The boring profiles included with this report represent an interpretation of the field logs and include modifications based on laboratory observation of the samples.

## **Preliminary Geotechnical Engineering Report**

Wildlife Crossing No. 2 ■ Lake and Seminole Counties, Florida

December 12, 2014 ■ Terracon Project No. H1135080

### **Laboratory Testing**

During the field exploration, a portion of each recovered sample was sealed in a glass jar and transported to our laboratory for further visual observation and laboratory testing. Selected samples retrieved from the borings were tested for moisture (water) content, fines content (soil passing a US standard #200 sieve), organic content, and Atterberg Limits. The test results are included on the respective boring profiles. The visual-manual classifications were modified as appropriate based upon the laboratory testing results.

The soil samples were classified in general accordance with the Unified Soil Classification System based on the material's texture and plasticity. The estimated group symbol for the Unified Soil Classification System is shown on the boring profiles in Appendix A. The results of our laboratory testing are presented on the corresponding borings profiles.

A series of fifteen (15) corrosion tests were performed on soil samples obtained from the soil borings performed for the proposed bridge. These results indicate that the subsurface environment ranges from slightly to extremely aggressive (pH = 4.3) for use in selection of an appropriate class of concrete or steel in accordance with the Florida Department of Transportation (FDOT) Standards. The environmental classifications are based on the Structures Design Guidelines. The corrosion series test results are summarized on **Exhibit A-35** in the **Appendix**.

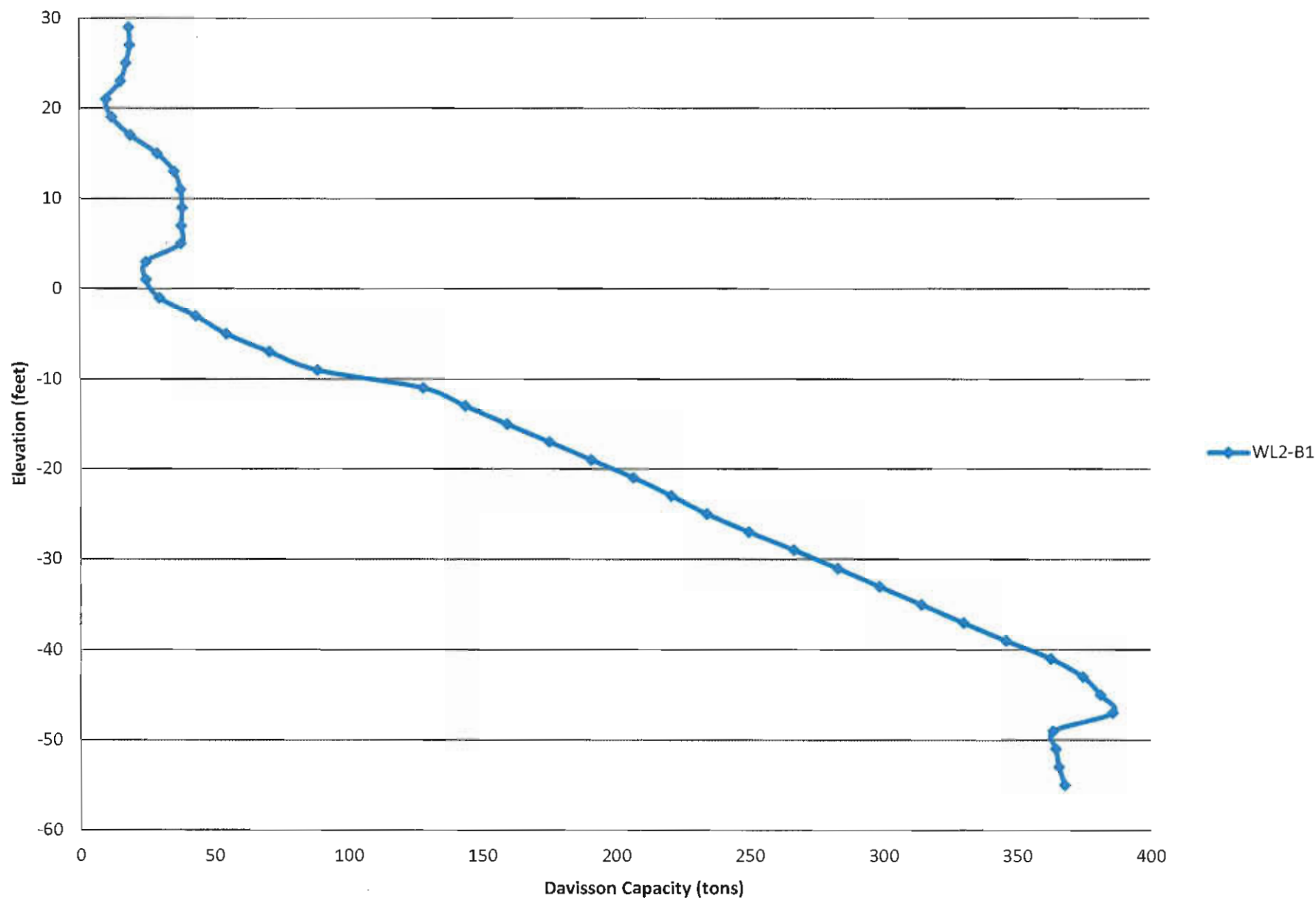
**EXHIBIT A-35**  
**CORROSION SERIES TESTING RESULTS**  
**WEKIVA PARKWAY (STATE ROAD 429/STATE ROAD 46) - SECTION 6**  
**WILDLIFE CROSSING NO. 2 BRIDGE**  
**LAKE AND SEMINOLE COUNTIES, FLORIDA**  
**FPID: 238275-7-32-02**  
**TERRACON PROJECT NO. H1135080**

Boring Number	Station & Offset	Sample Depth (feet)	pH	Minimum Resistivity (ohm-cm)	Chlorides (ppm)	Sulfates (ppm)	Substructural Environmental Classification	
							Concrete	Steel
WL2-B2	798+02; 73' LT	0.5	5.8	24,000	60	< 5	Moderately Aggressive	Extremely Aggressive
WL2-B6	799+65; 70' LT	2.0	6.1	46,000	60	19.8	Slightly Aggressive	Moderately Aggressive
WL2-B11	803+50; 62' LT	4.0	5.9	37,000	60	< 5	Moderately Aggressive	Extremely Aggressive
WL2-B16	805+94; 63' RT	4.0	7.1	37,000	60	< 5	Slightly Aggressive	Slightly Aggressive
WL2-B21	809+15; 137' LT	2.0	7.0	45,000	60	< 5	Slightly Aggressive	Moderately Aggressive
WL2-B25	811+43; 21' LT	0.5	6.3	13,000	60	< 5	Slightly Aggressive	Moderately Aggressive
WL2-B29	813+74; 19' LT	3.0	5.6	24,000	60	110.1	Moderately Aggressive	Extremely Aggressive
WL2-B34	817+11; 68' RT	1.0	7.2	3,100	60	242.1	Slightly Aggressive	Moderately Aggressive
WL2-B37	819+38; 61' LT	3.0	4.9	21,000	60	< 5	Extremely Aggressive	Extremely Aggressive
WL2-B41	821+67; 59' LT	4.0	4.3	22,000	60	75.6	Extremely Aggressive	Extremely Aggressive
WL2-B45	823+90; 67' RT	1.0	5.9	3,400	60	< 5	Moderately Aggressive	Extremely Aggressive
WL2-B50	837+34; 146' LT	1.0	5.1	11,000	60	43.5	Moderately Aggressive	Extremely Aggressive
WL2-B54	829+74; 136' LT	1.5	4.9	24,000	60	35.7	Extremely Aggressive	Extremely Aggressive
WL2-B58	831+95; 24' LT	1.0	4.6	26,000	60	< 5	Extremely Aggressive	Extremely Aggressive
WL2-B62	834+23; 29' LT	1.0	5.6	15,000	60	74.1	Moderately Aggressive	Extremely Aggressive

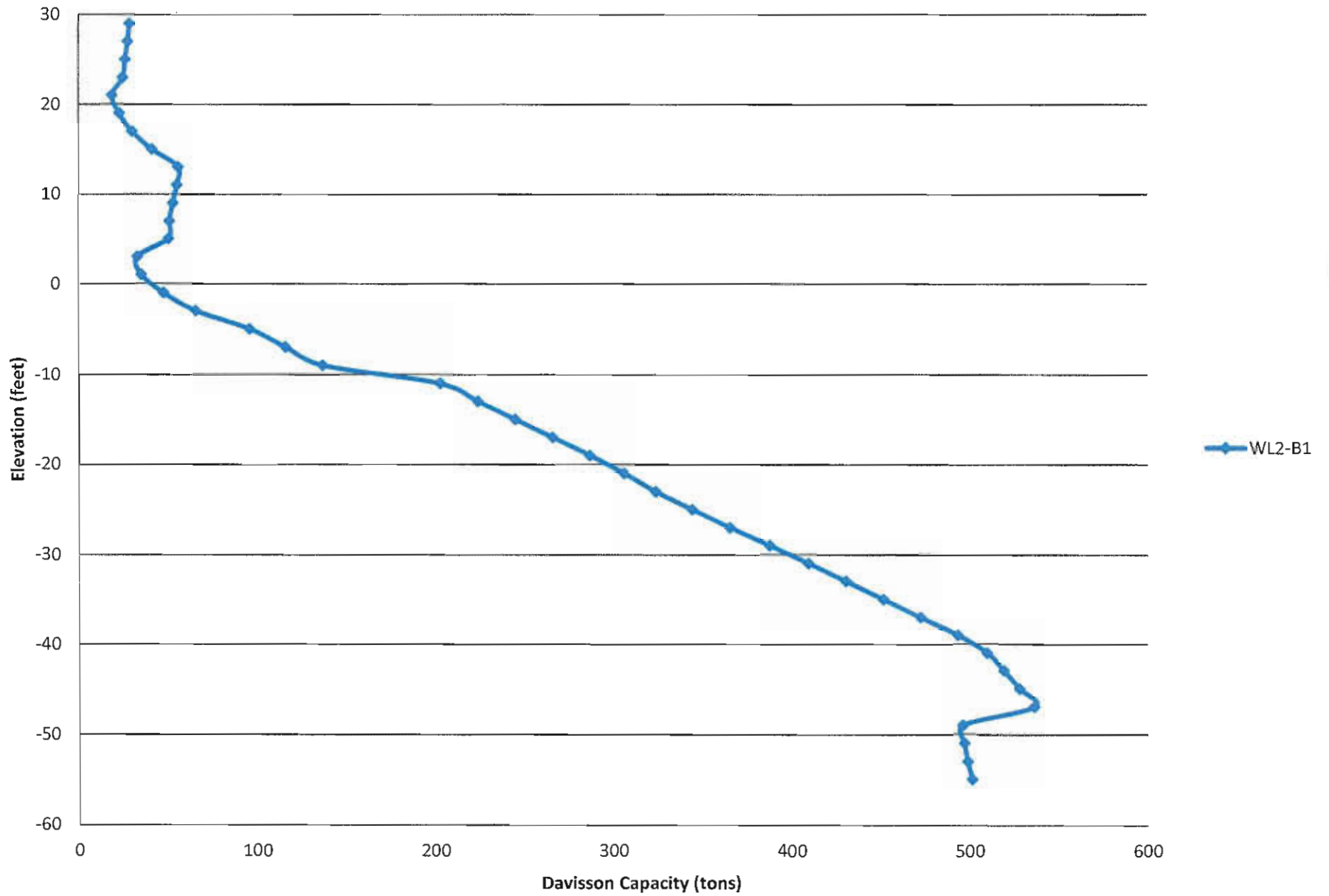
**APPENDIX B**  
**PILE CAPACITY CURVES AND COMPUTER OUTPUTS**



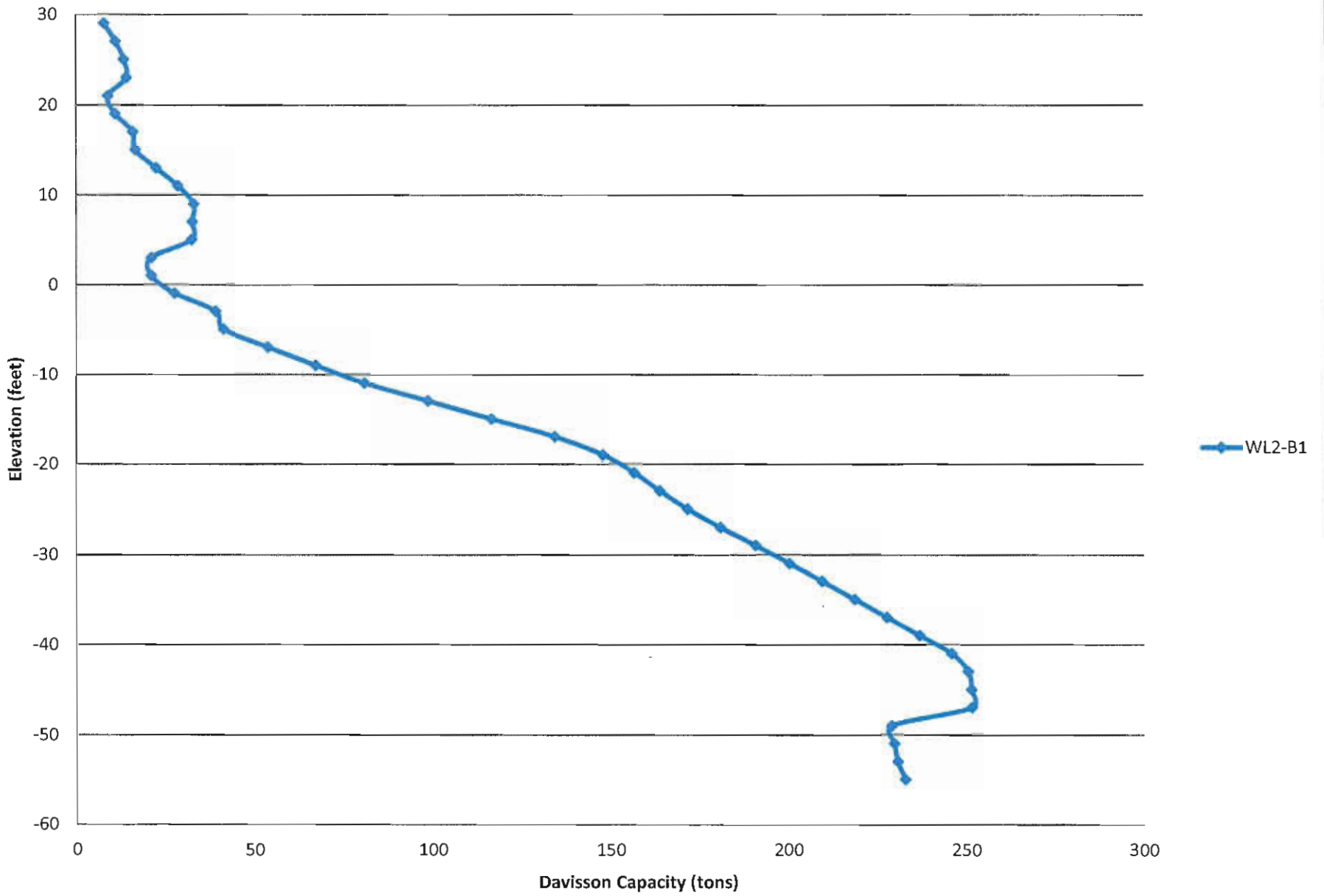
# Bent 1 - 18" PCP



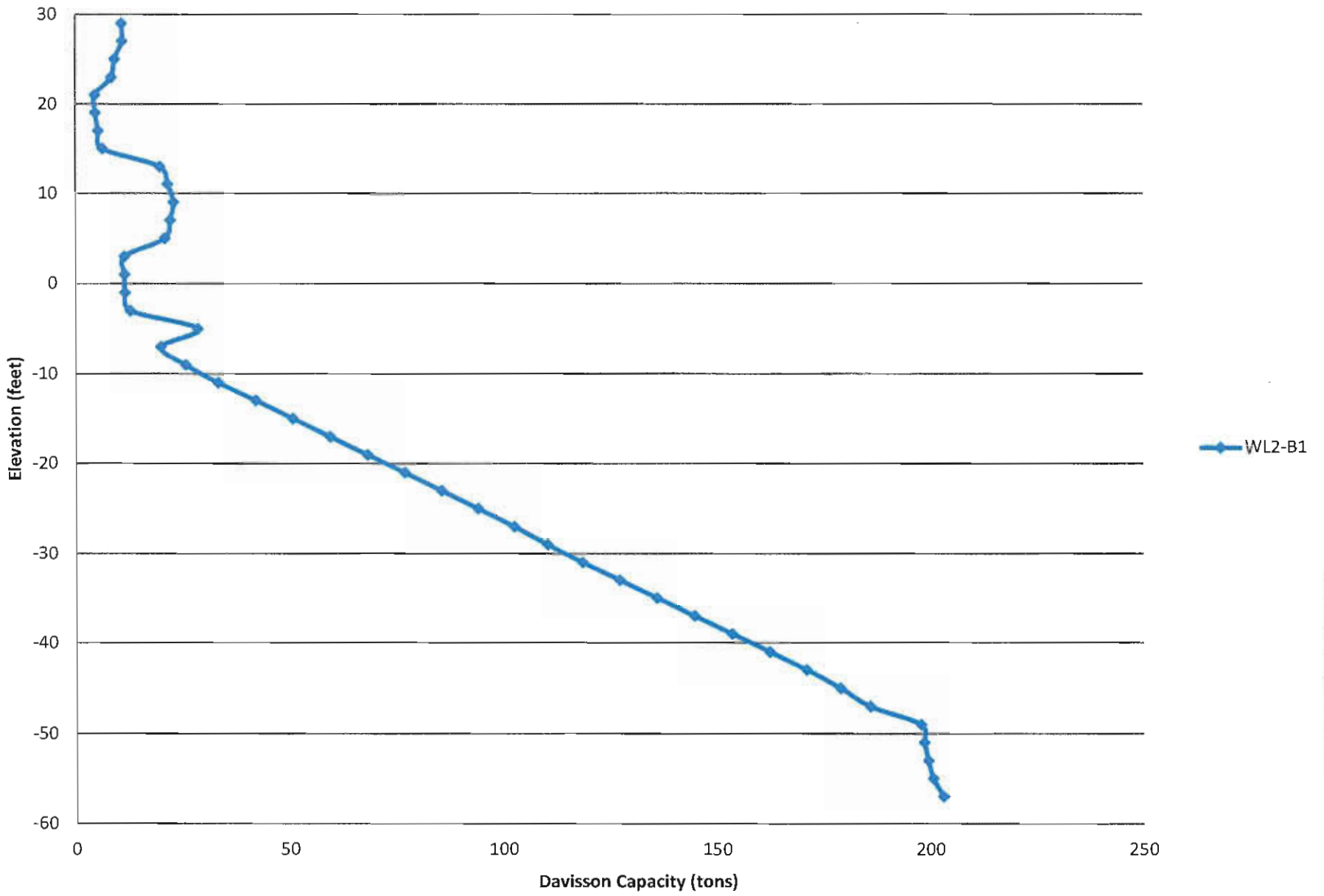
# Bent 1 - 24" PCP



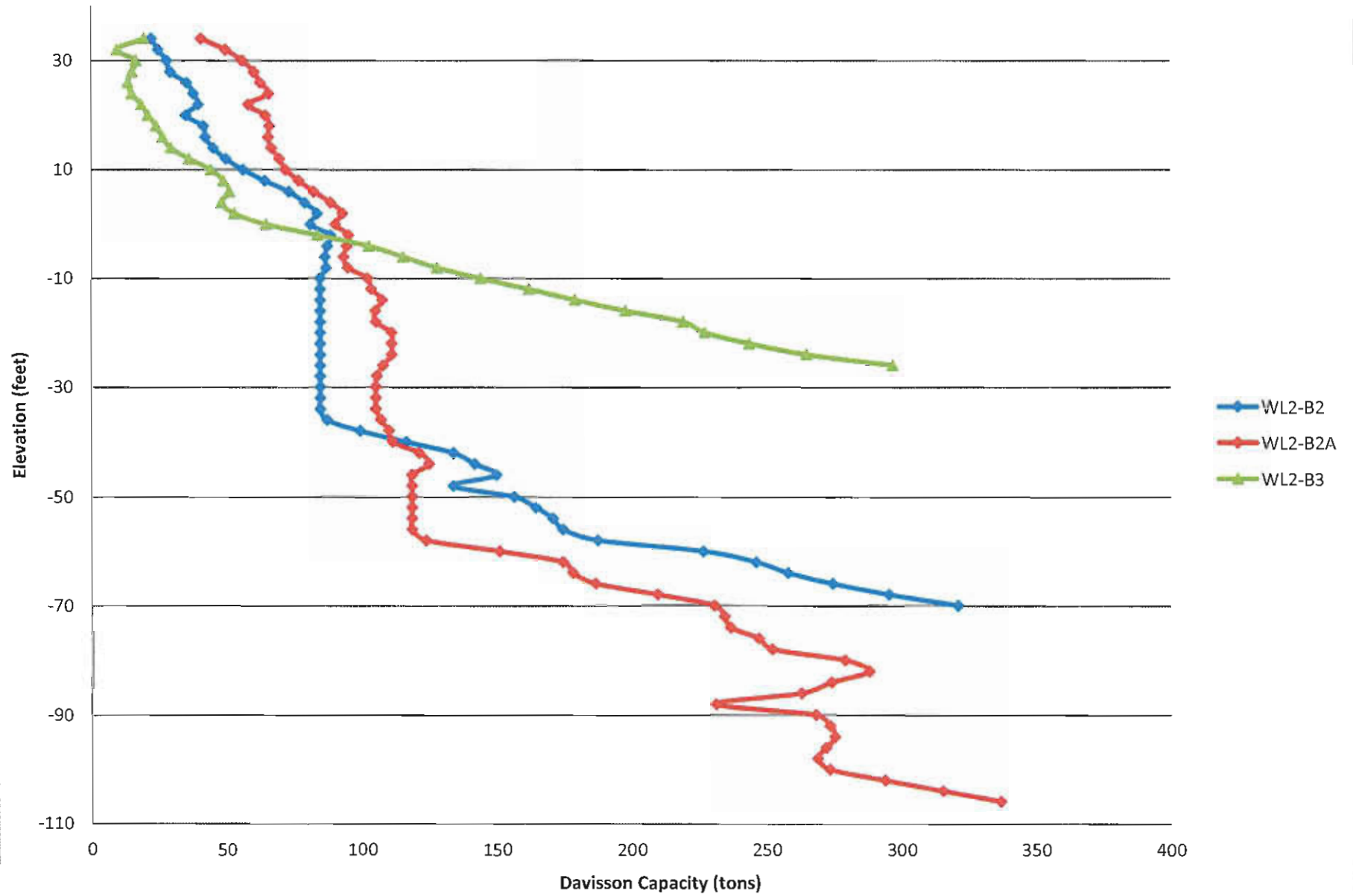
# Bent 1 - 20" Pipe Pile



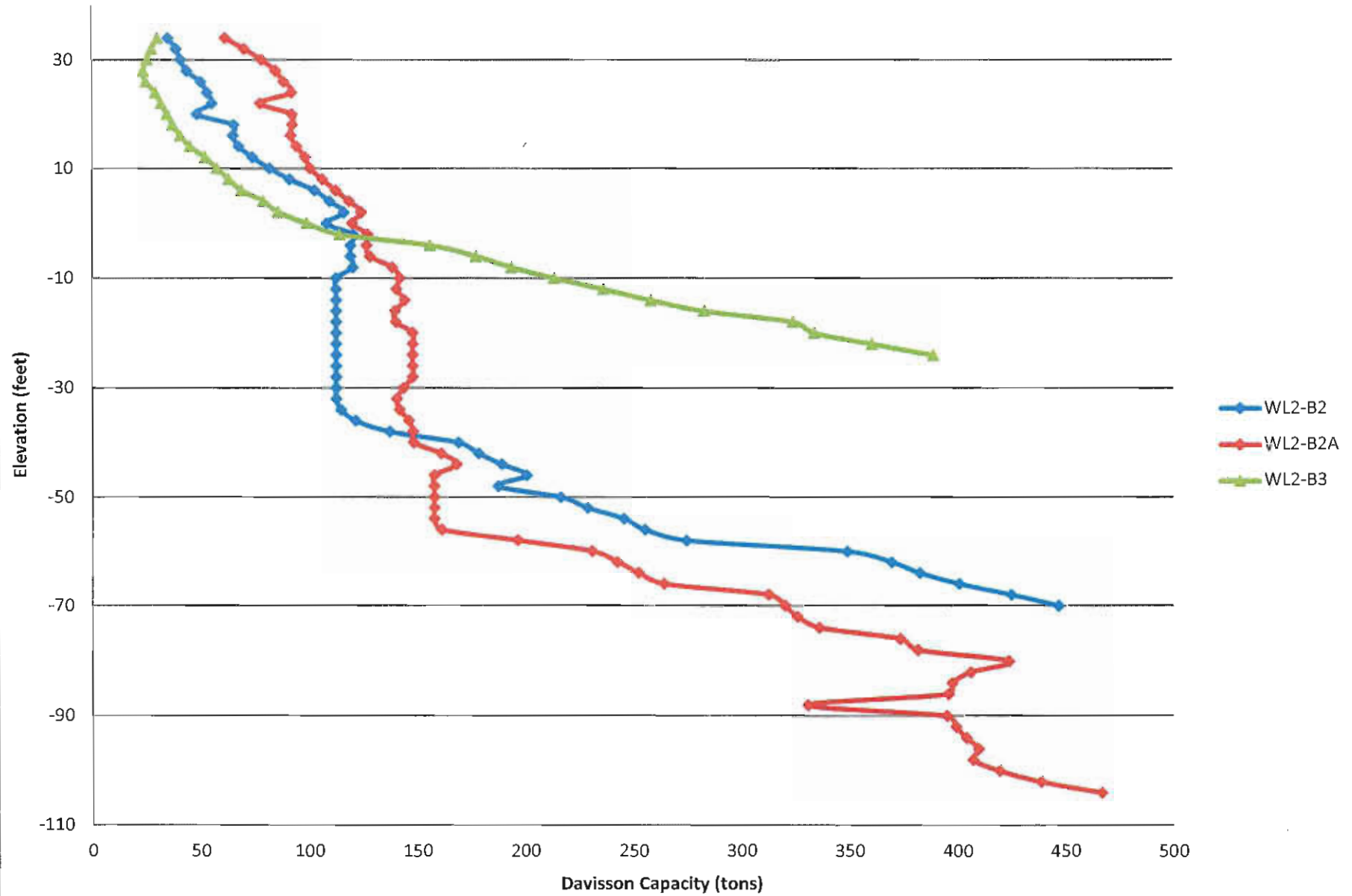
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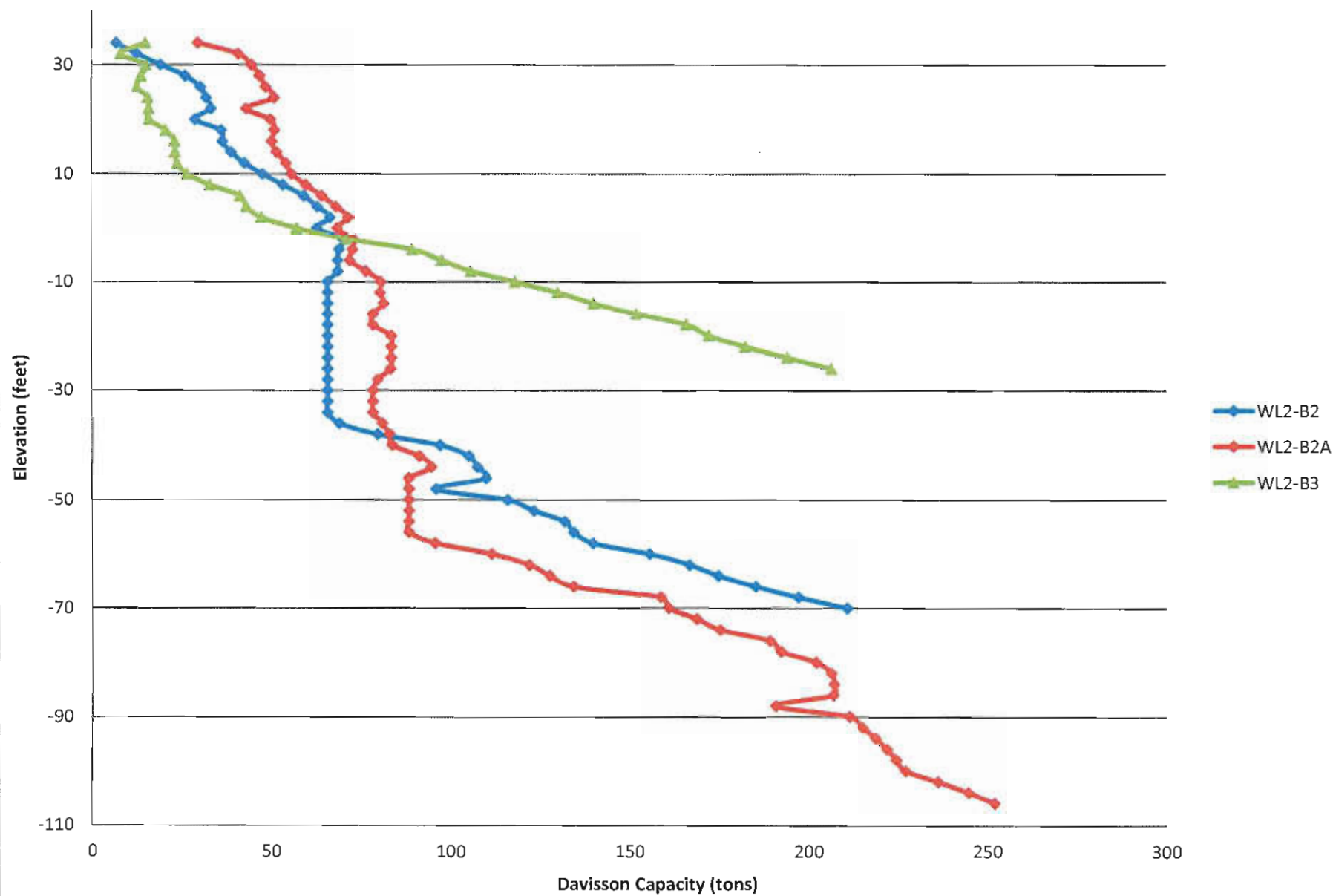
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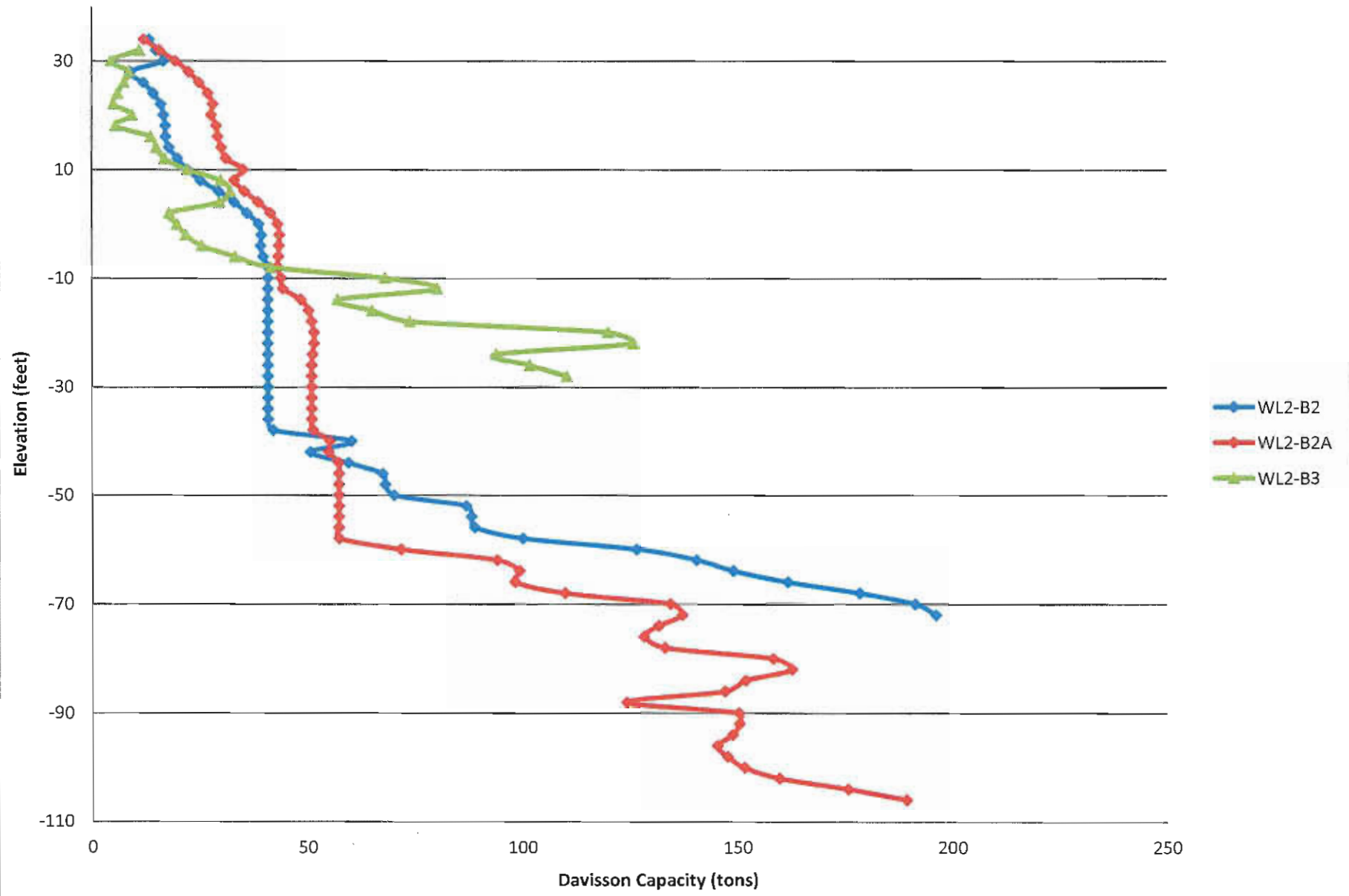
# Bent 2 - 24" PCP



# Bent 2 - 20" Pipe Pile

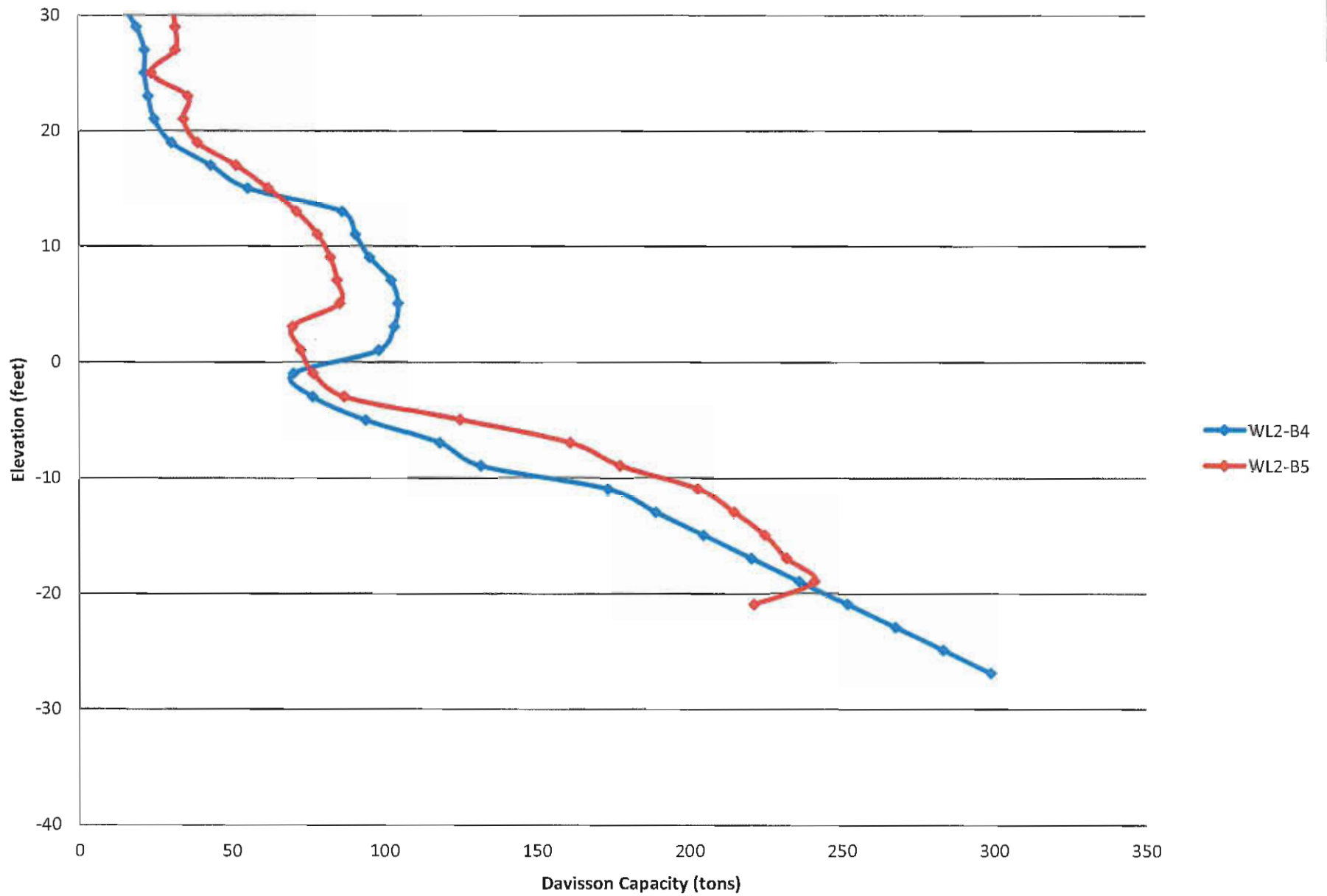


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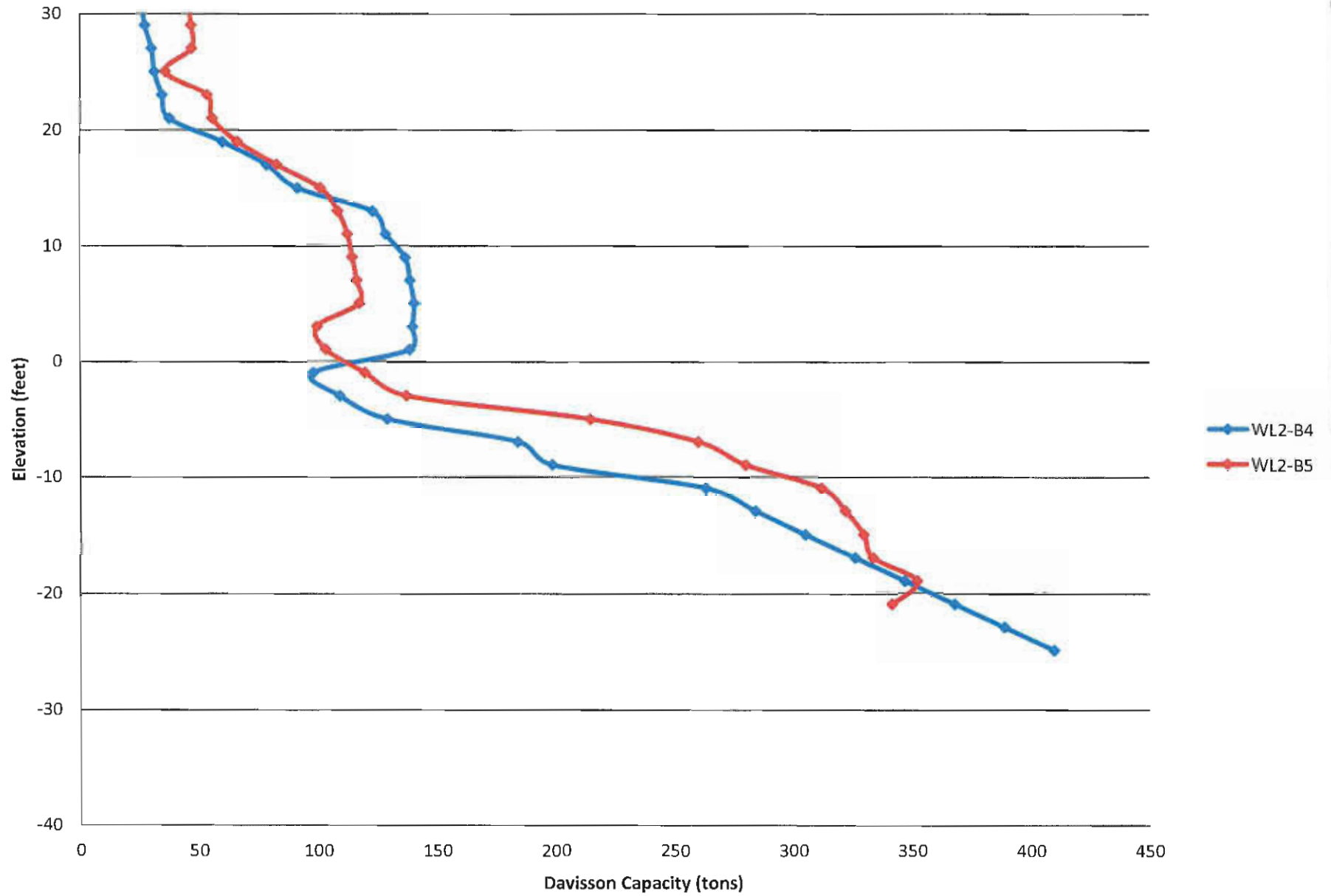




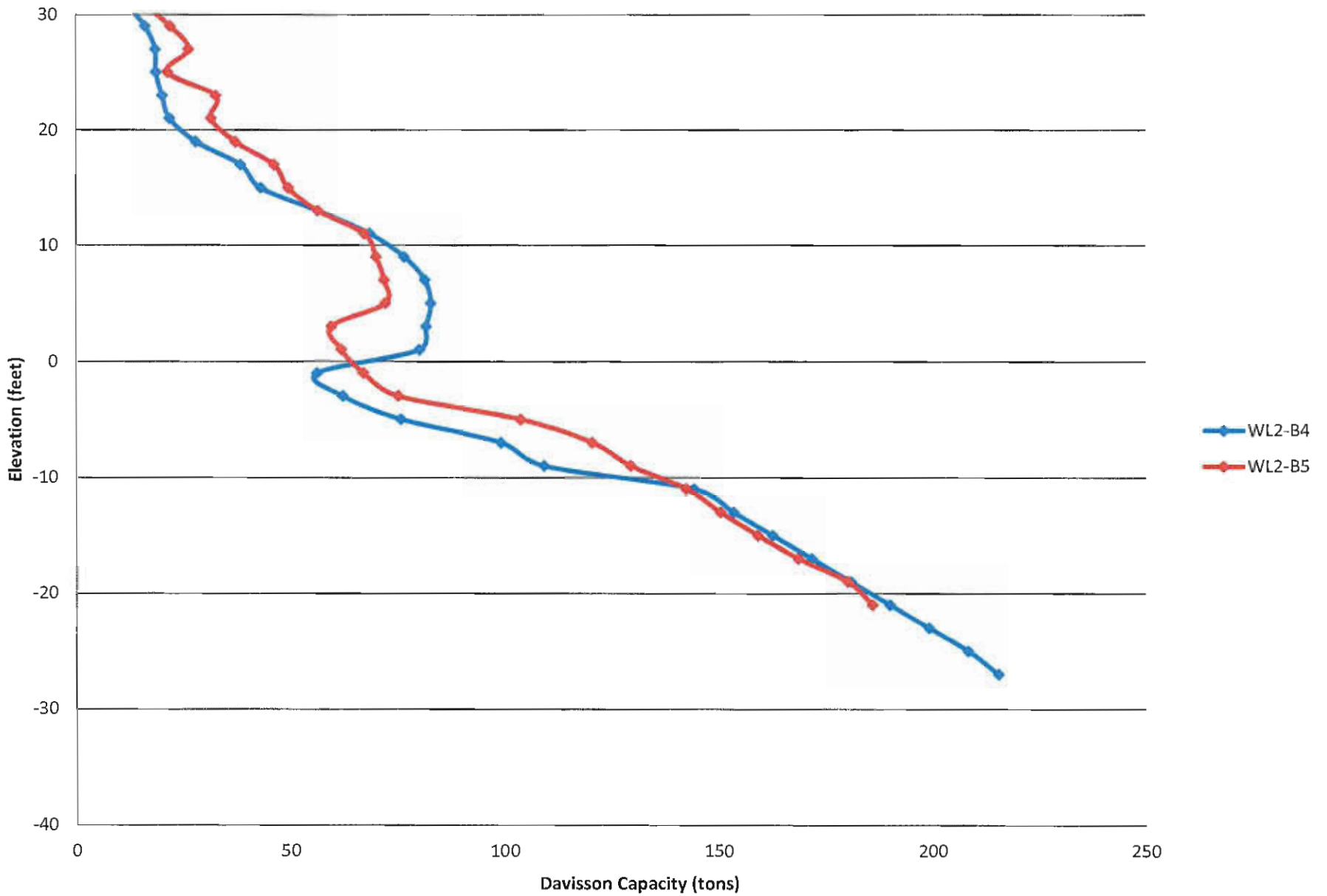
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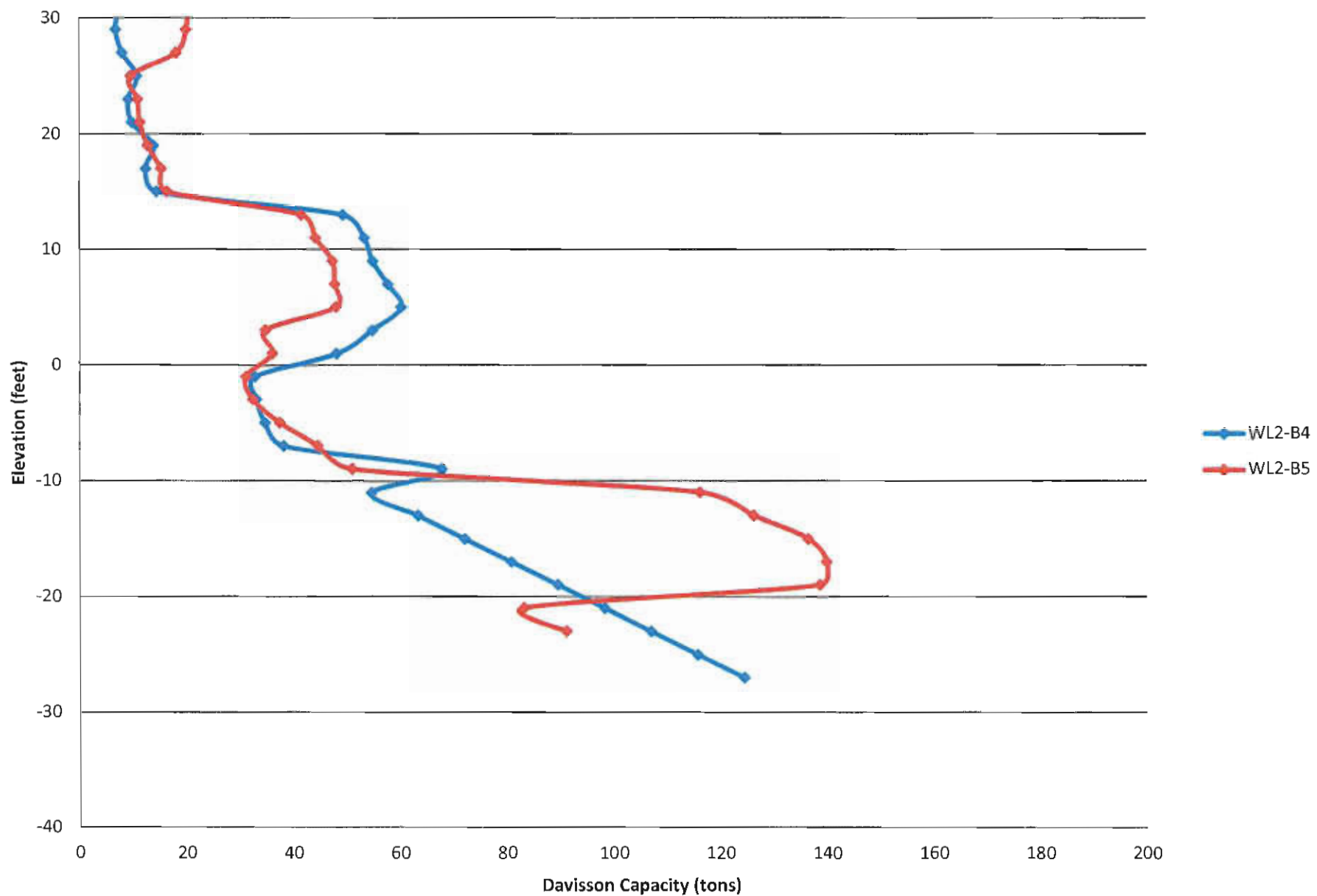
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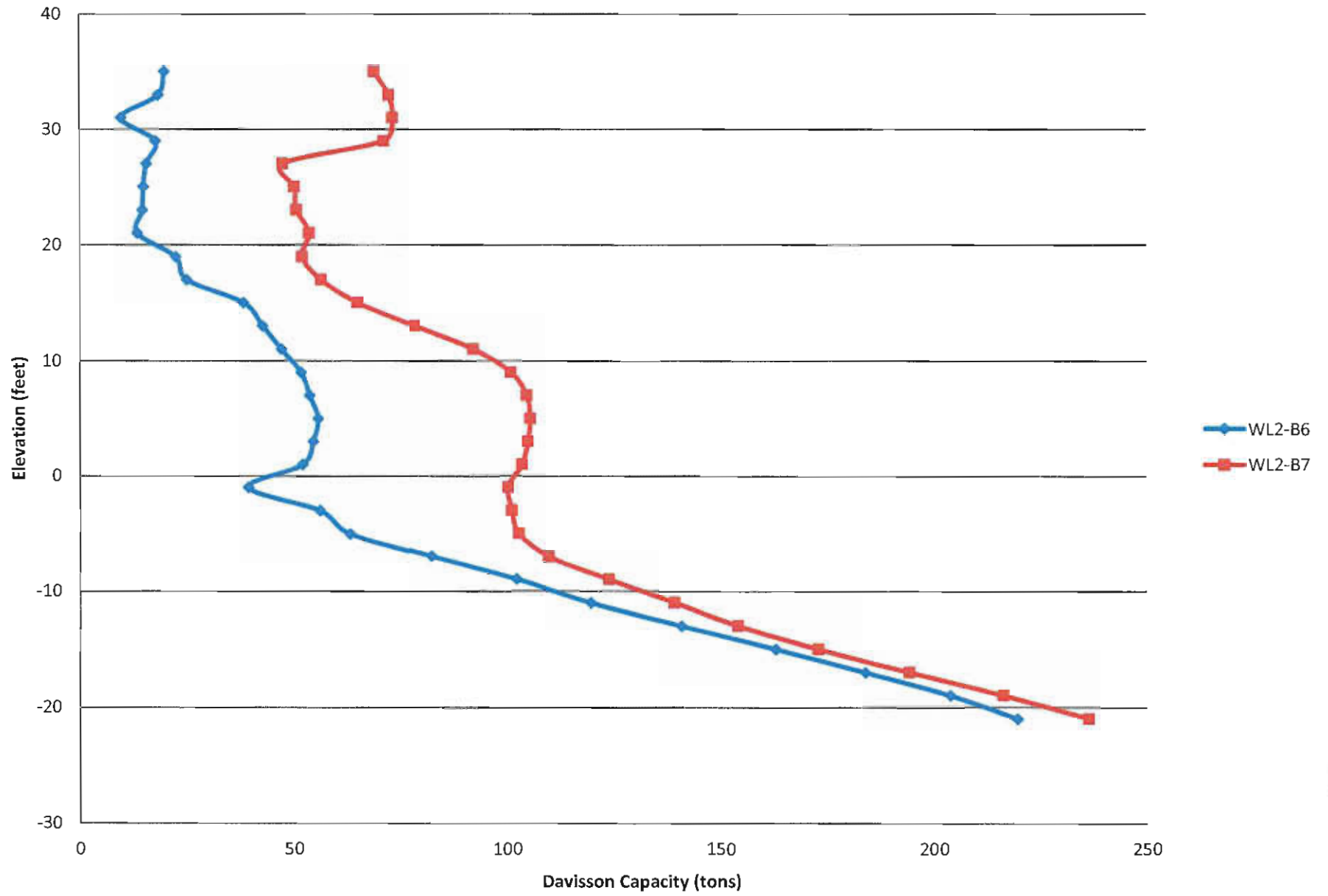
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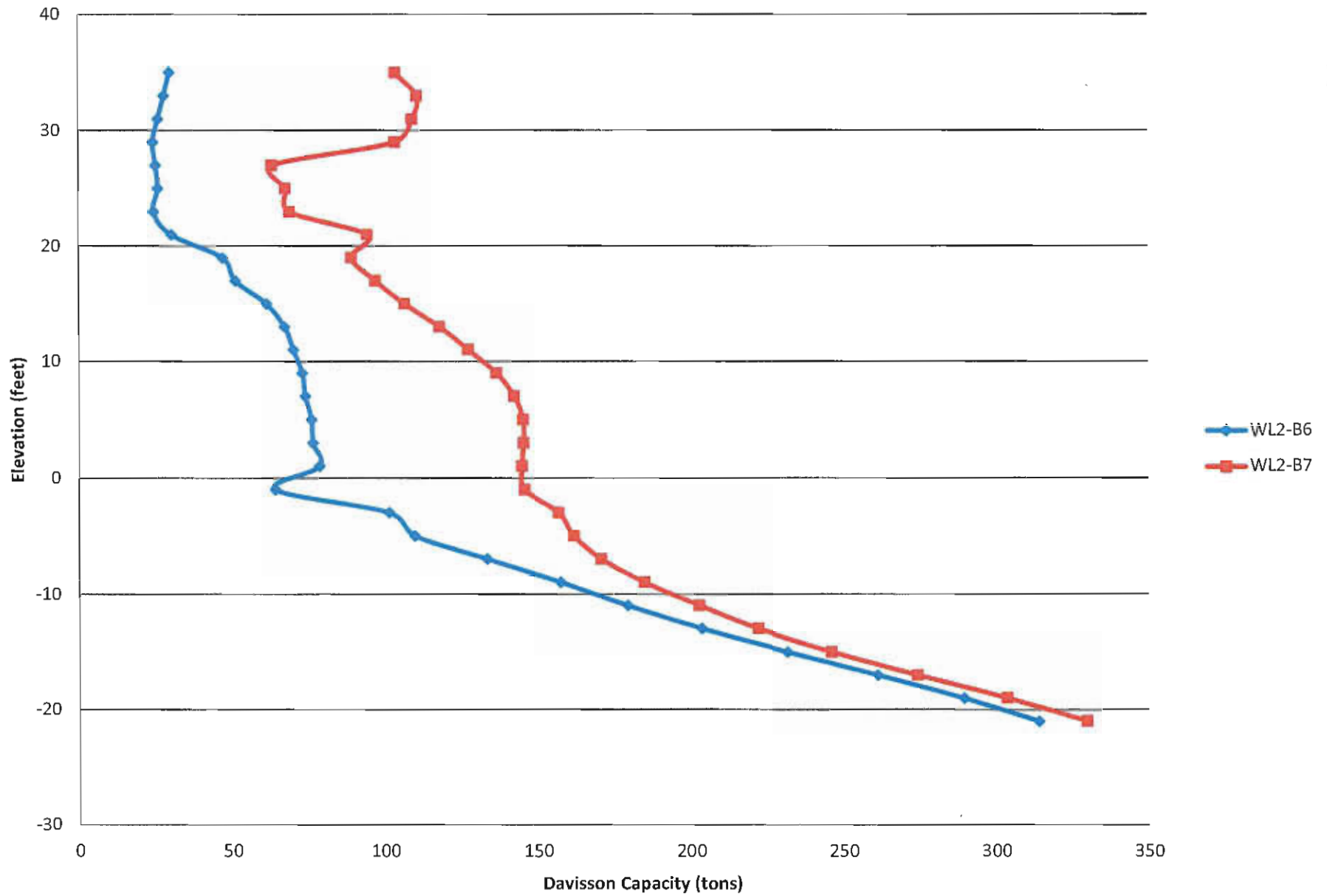
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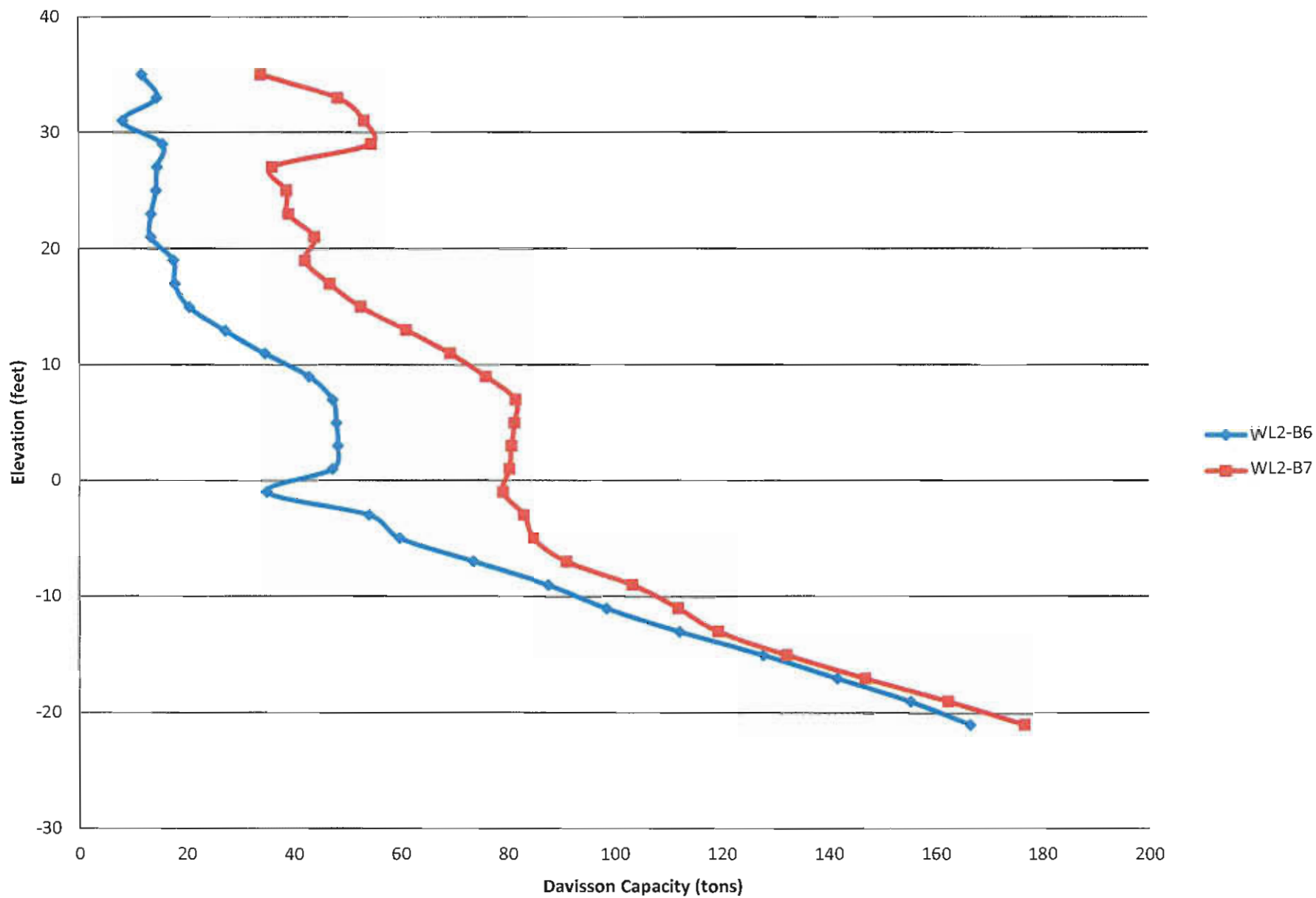
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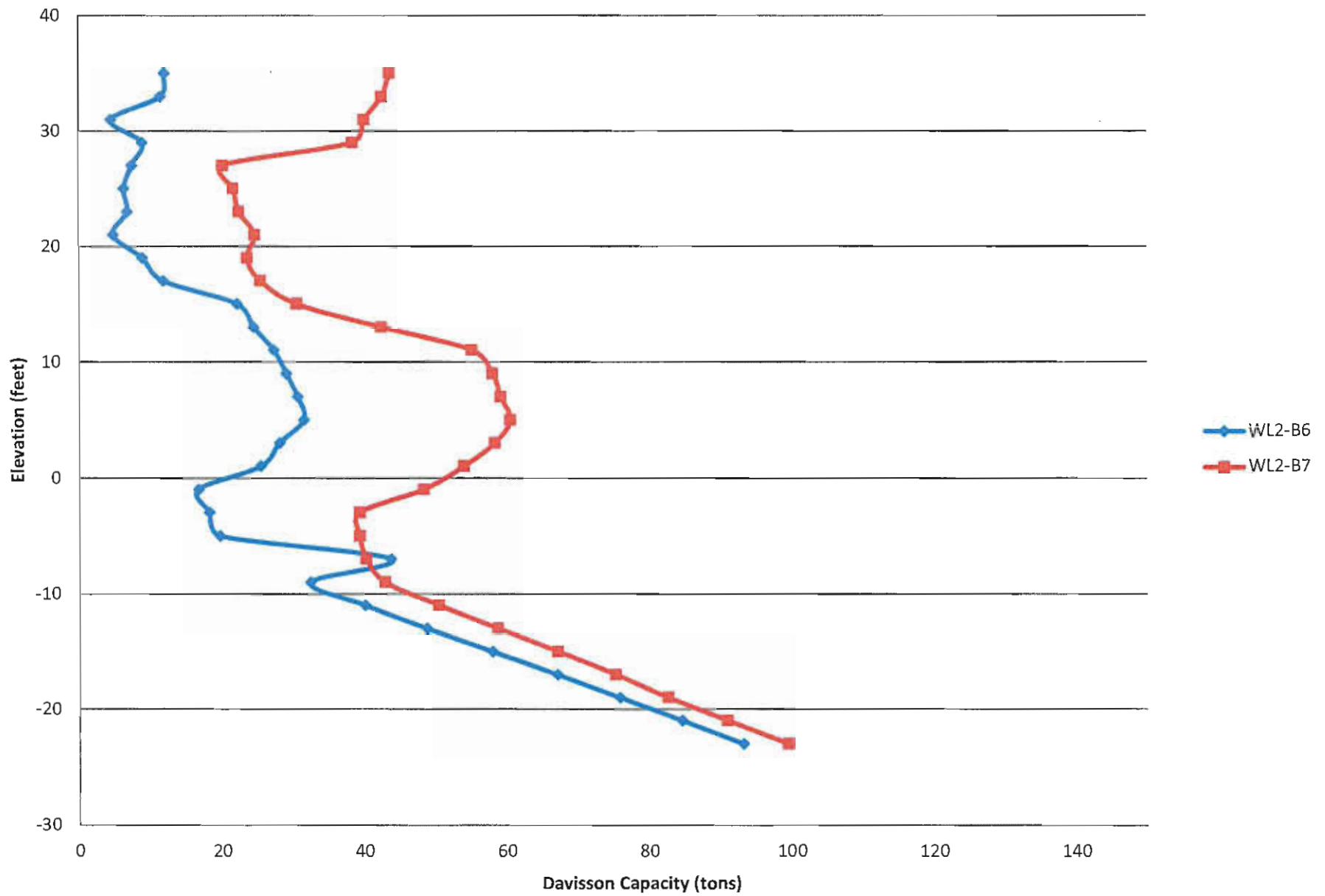
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### Bent 4 - 20" Pipe Pile

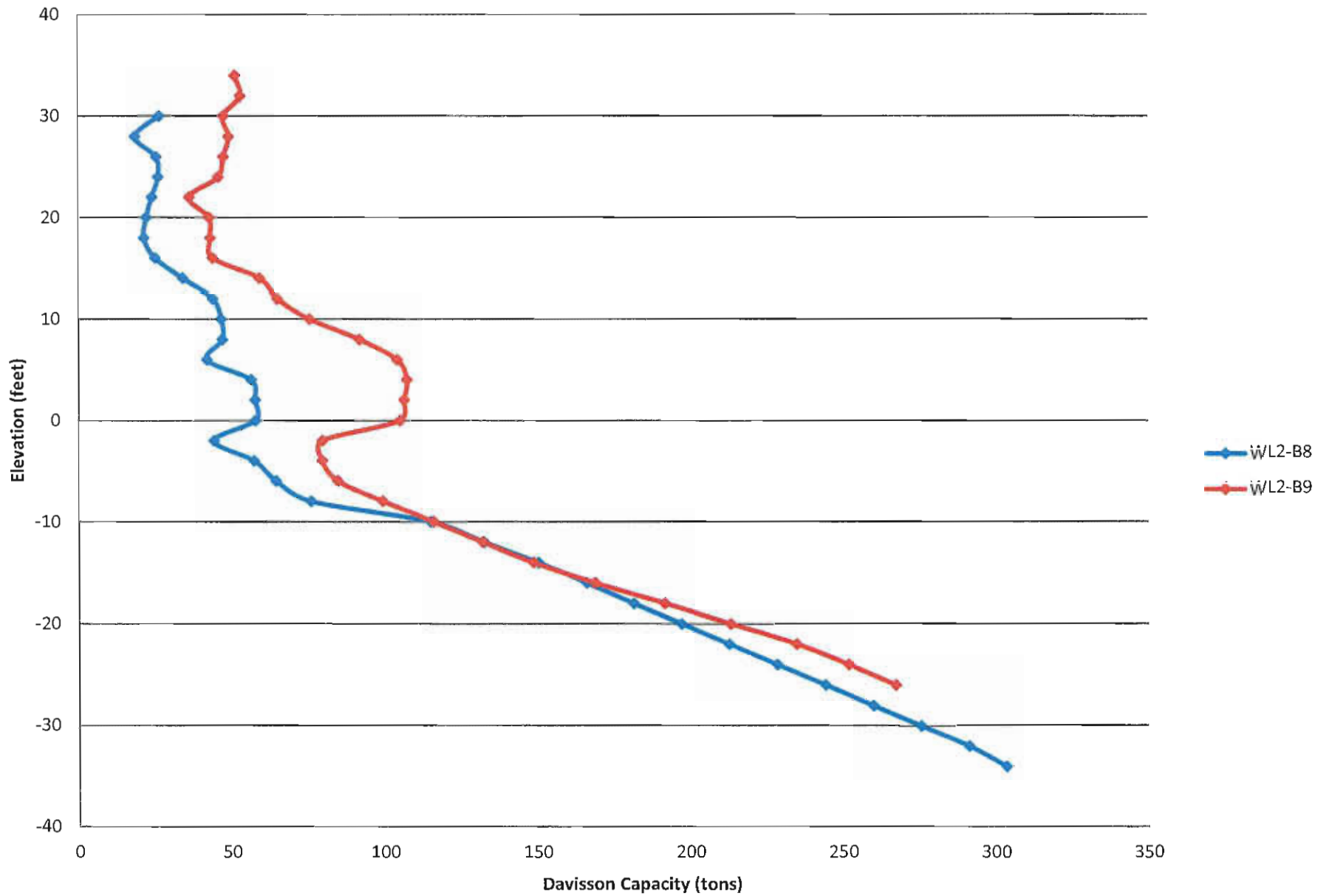


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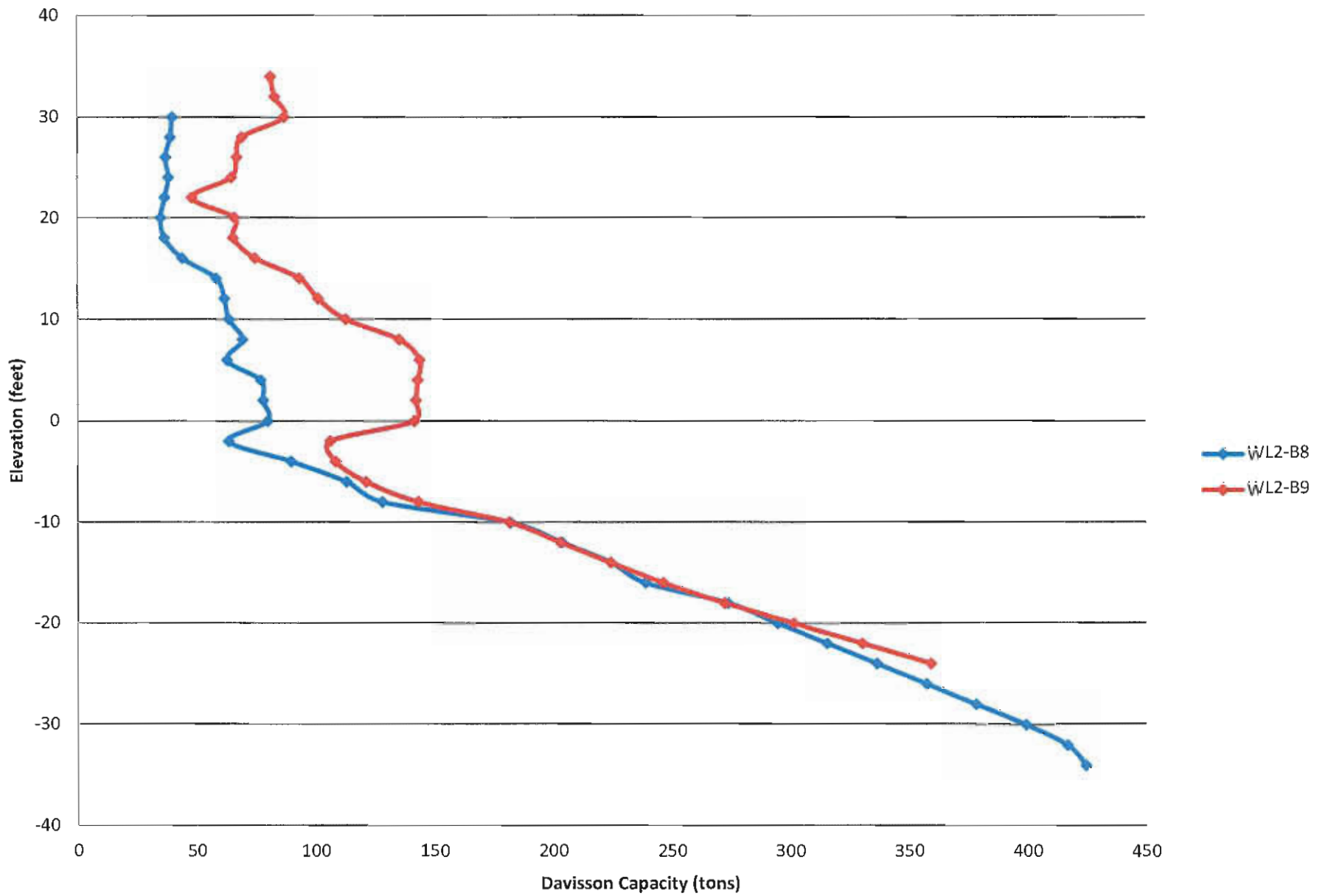




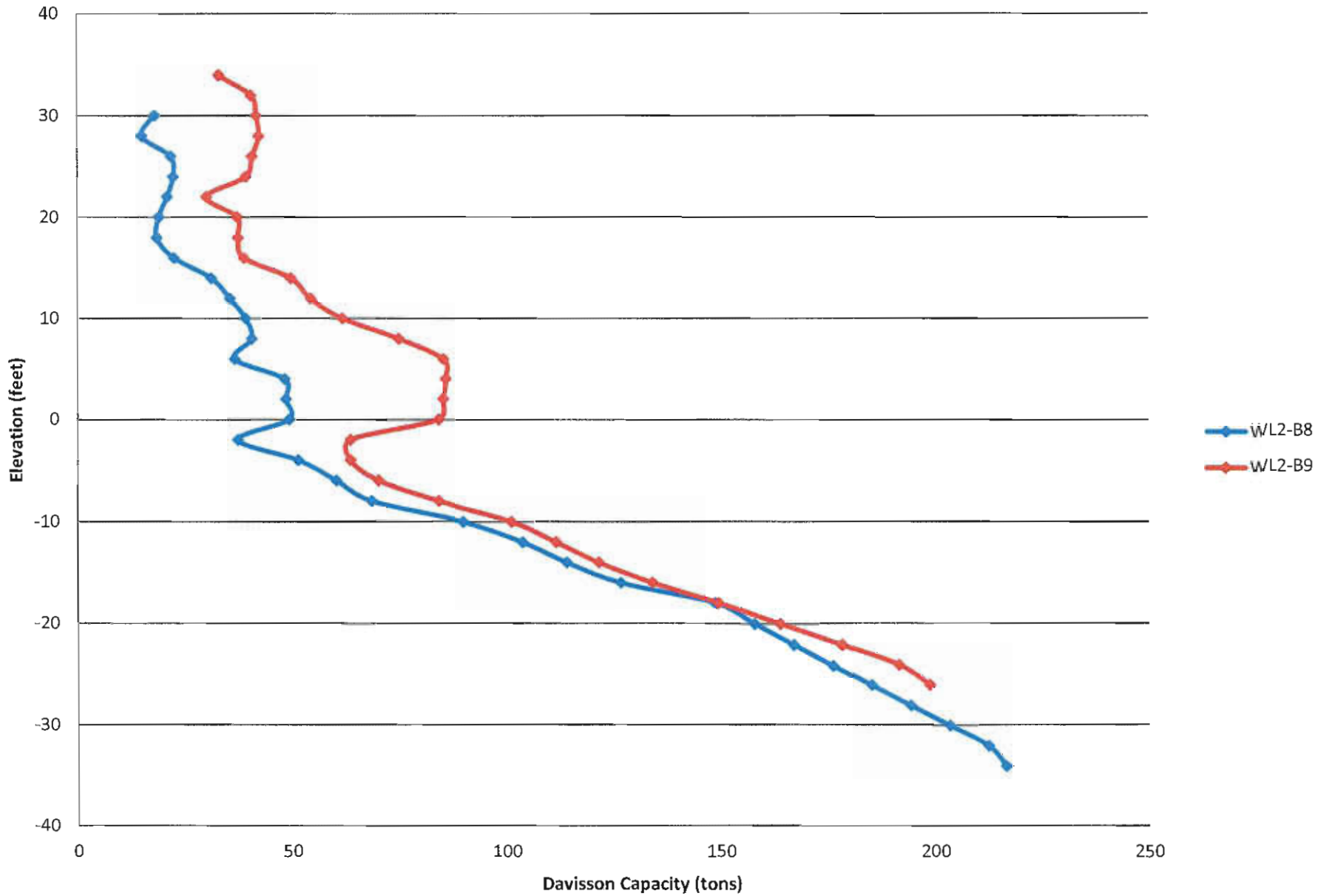
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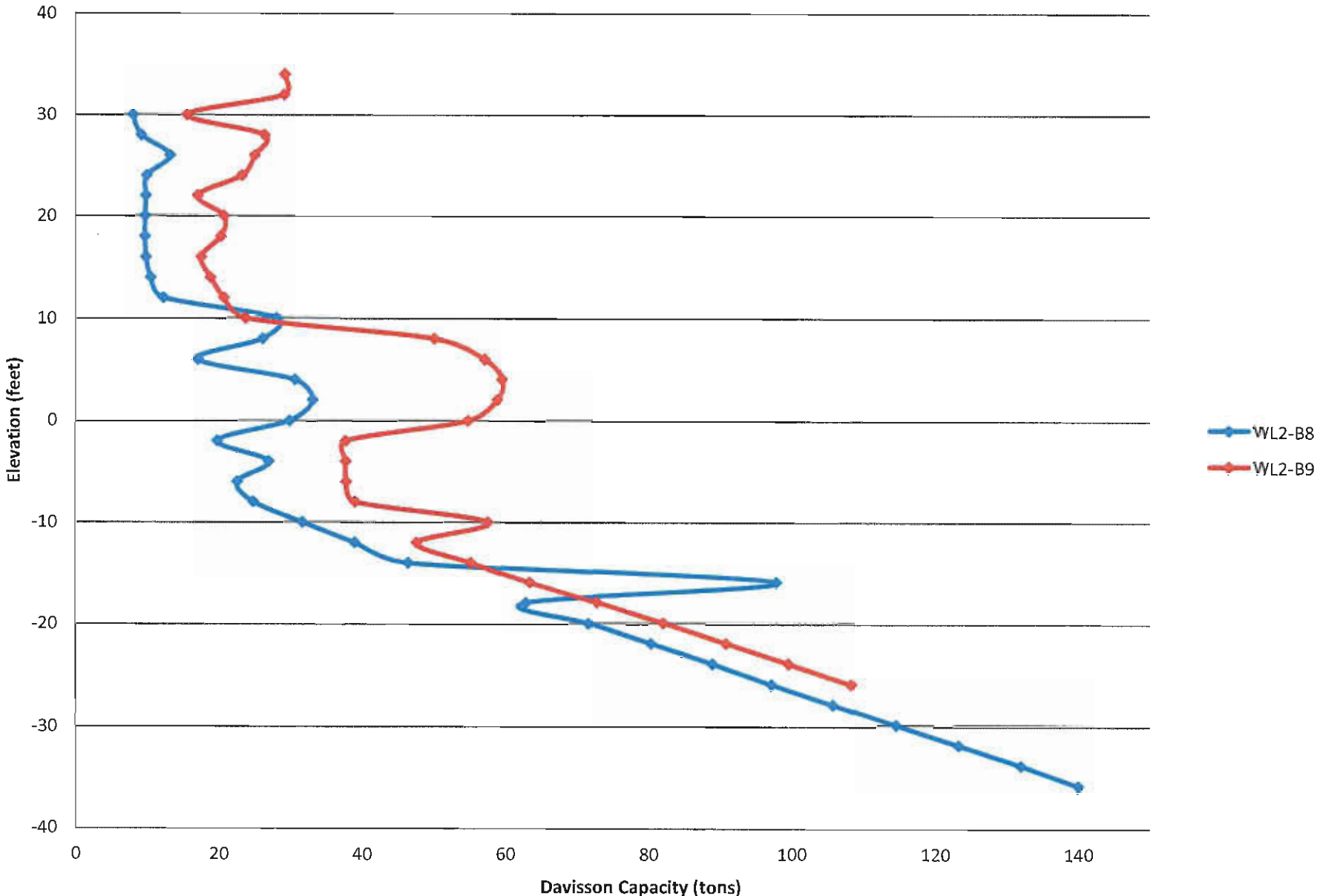
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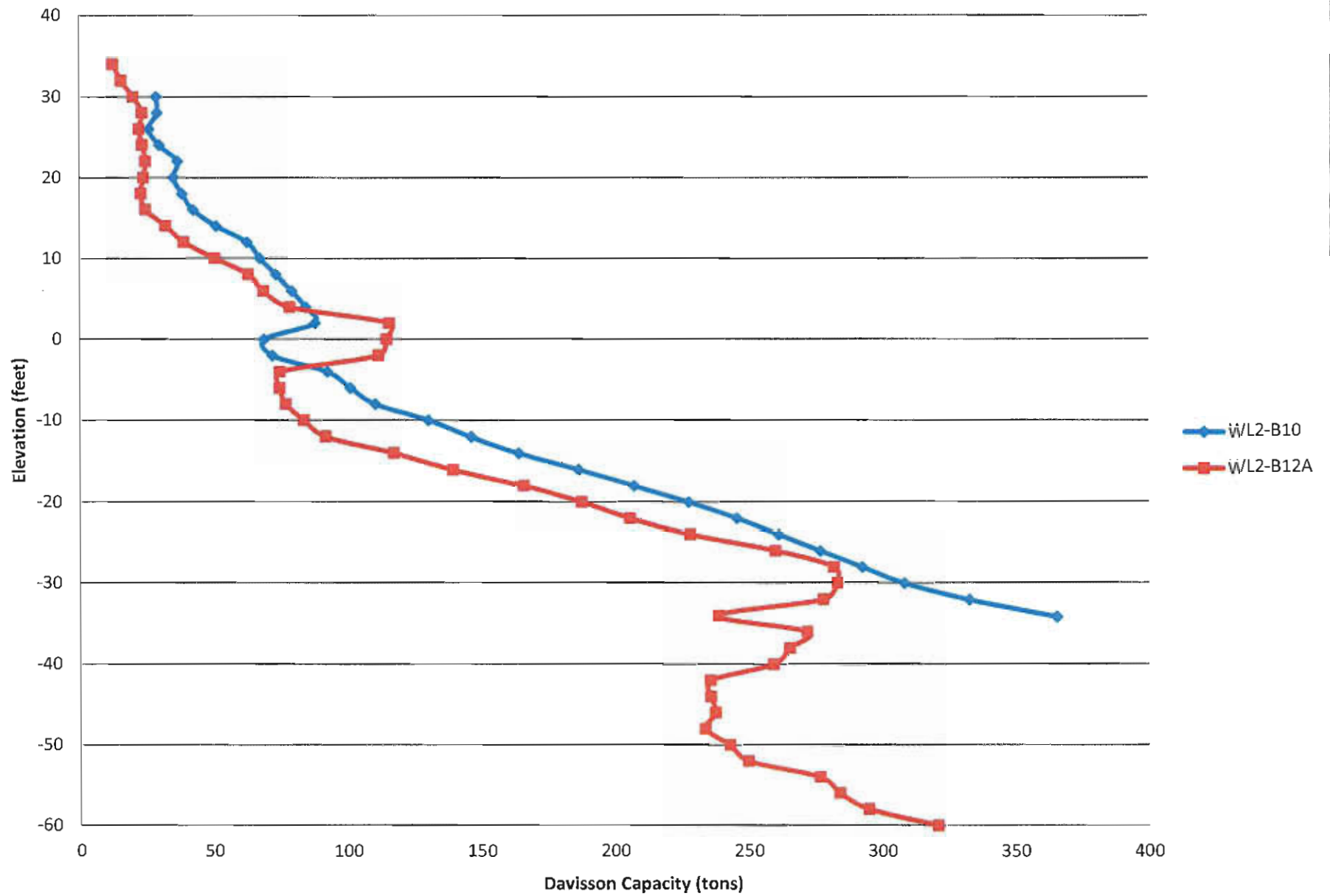
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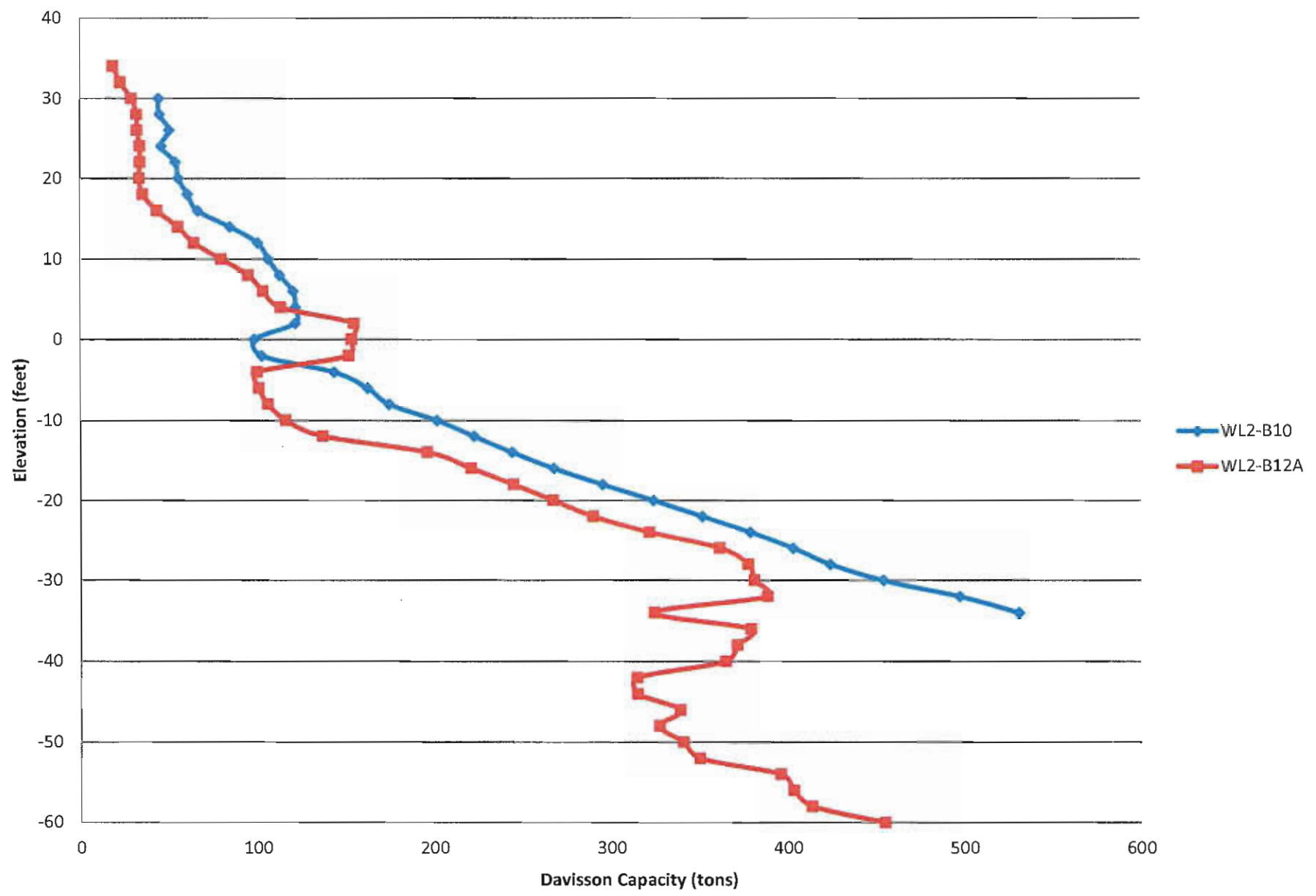
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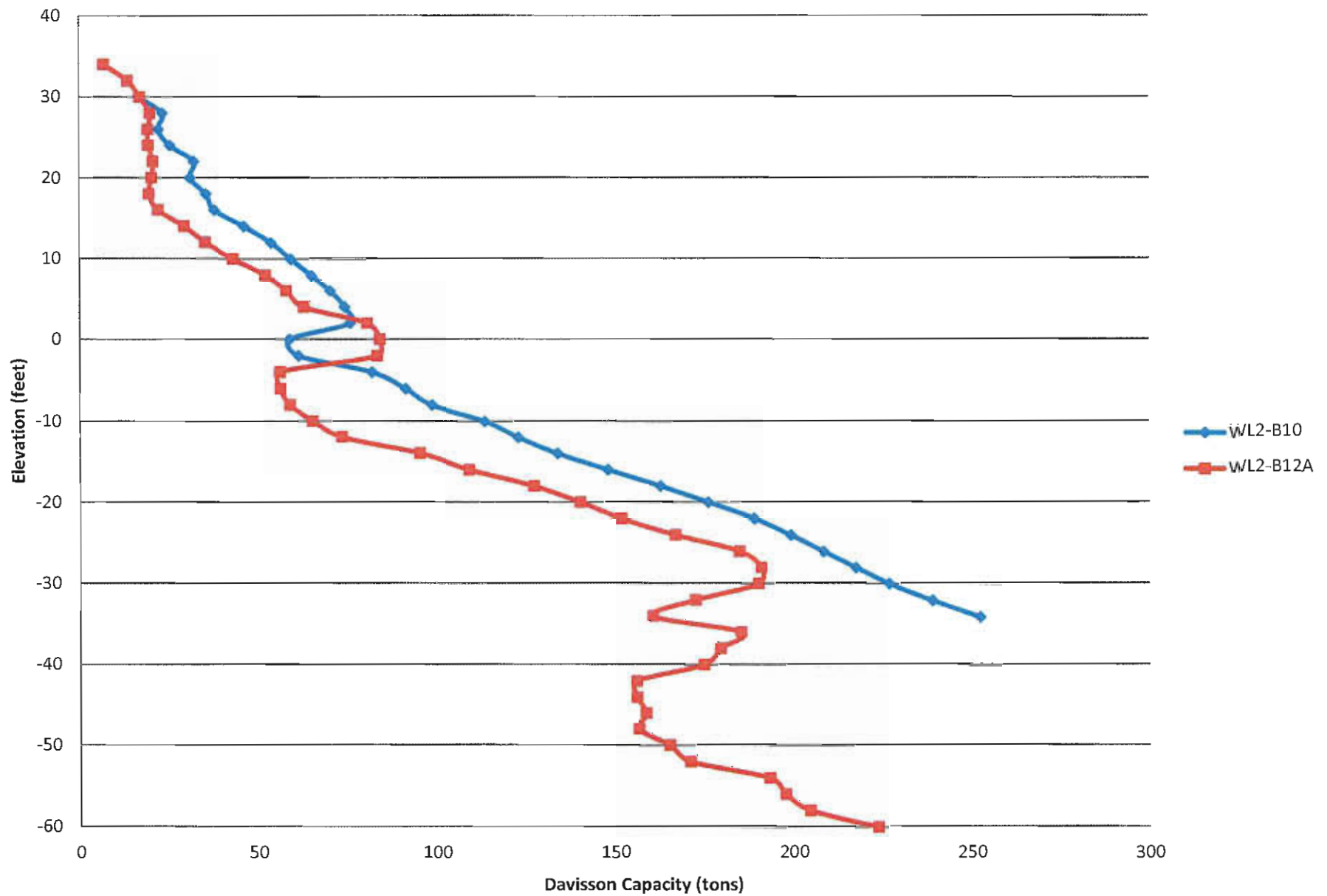
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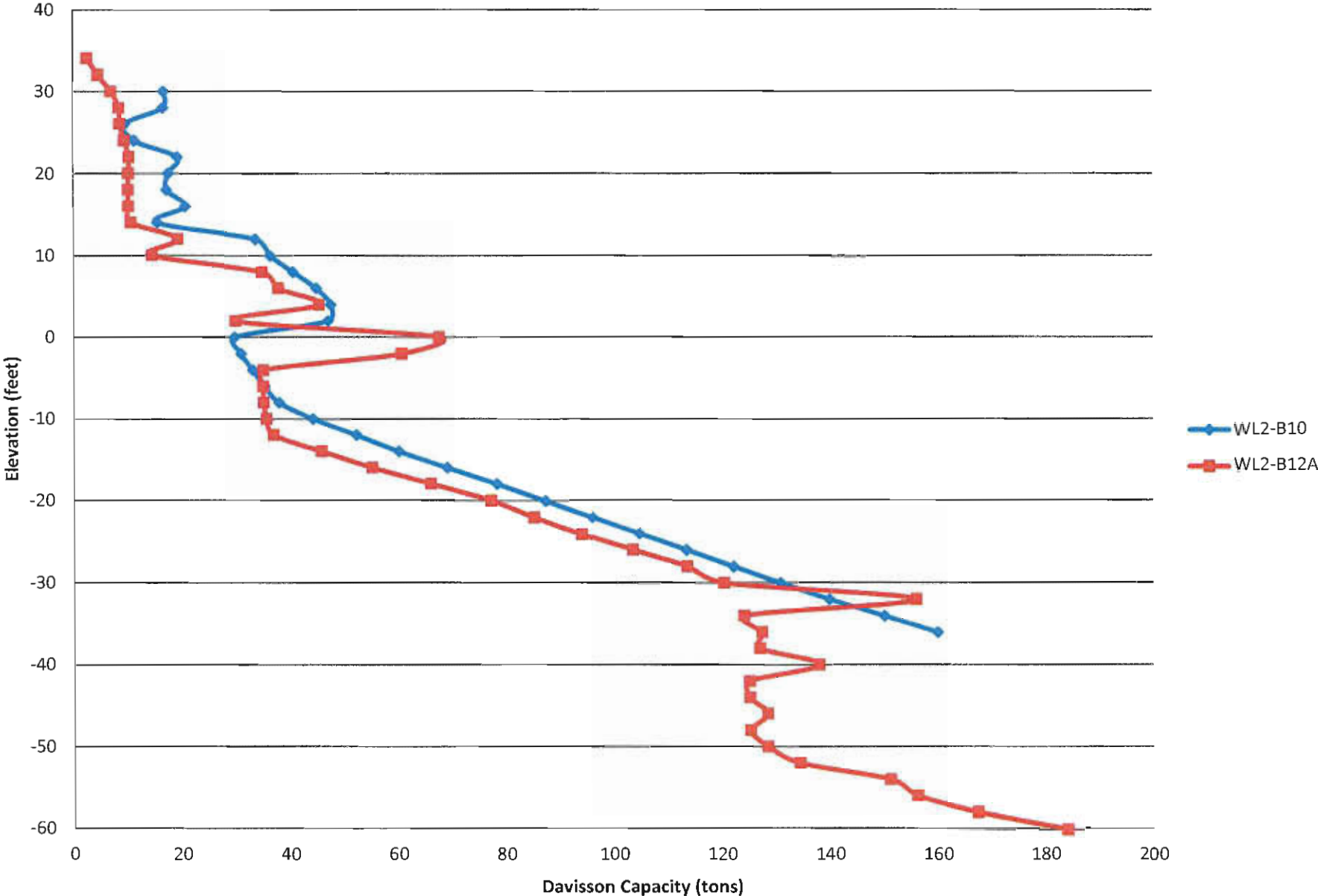
# Bent 6 - 24" PCP



### Bent 6 - 20" Pipe Pile

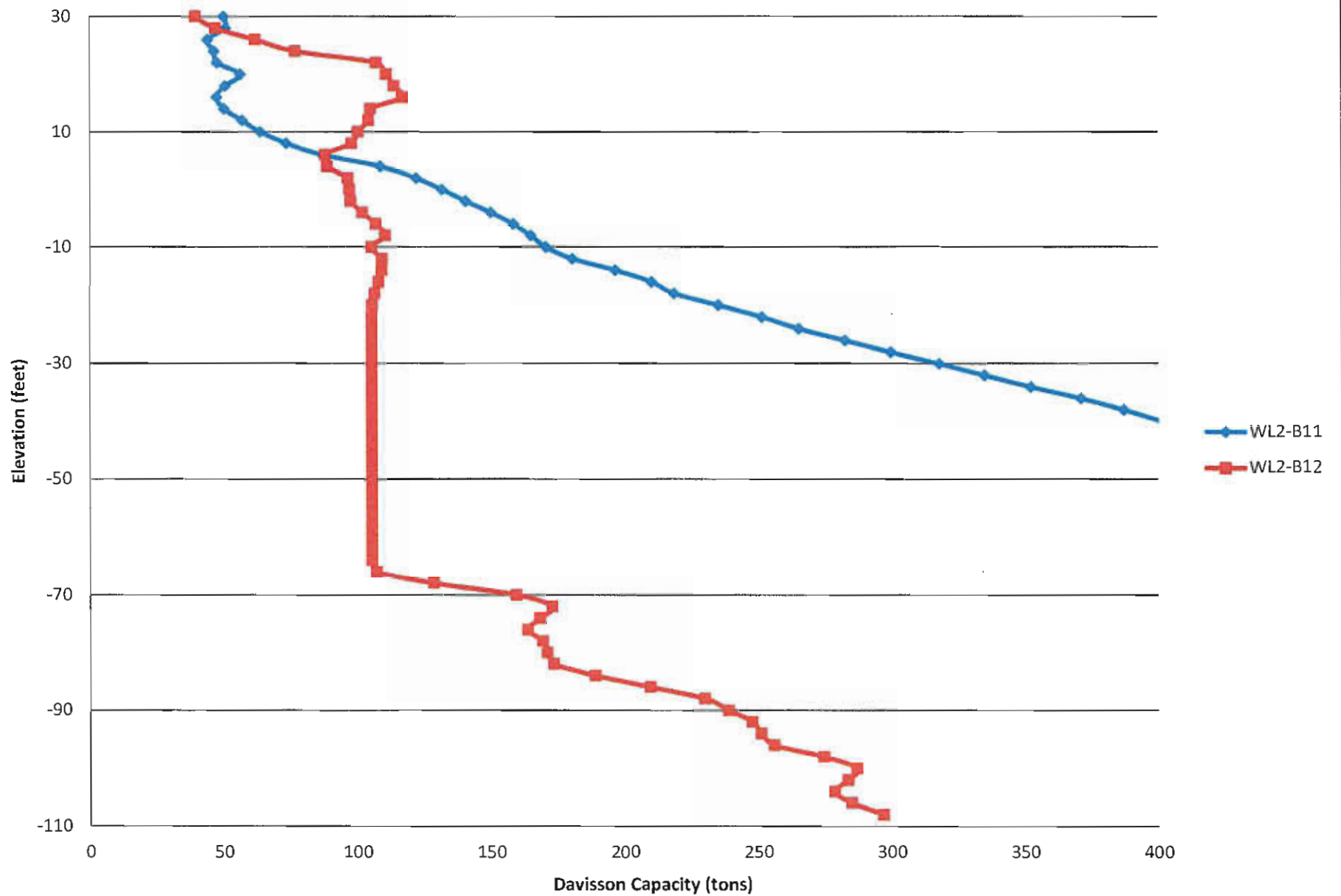


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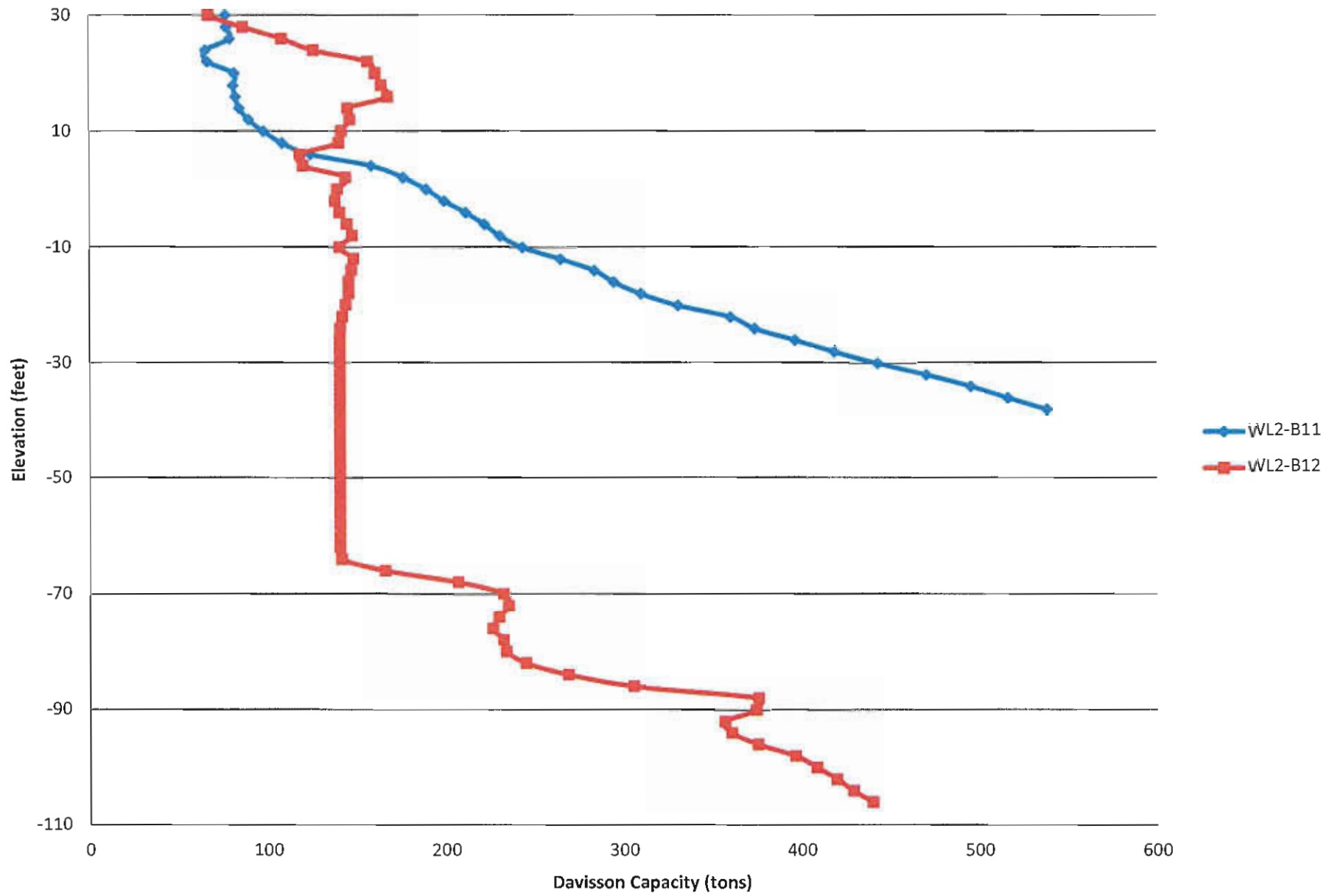




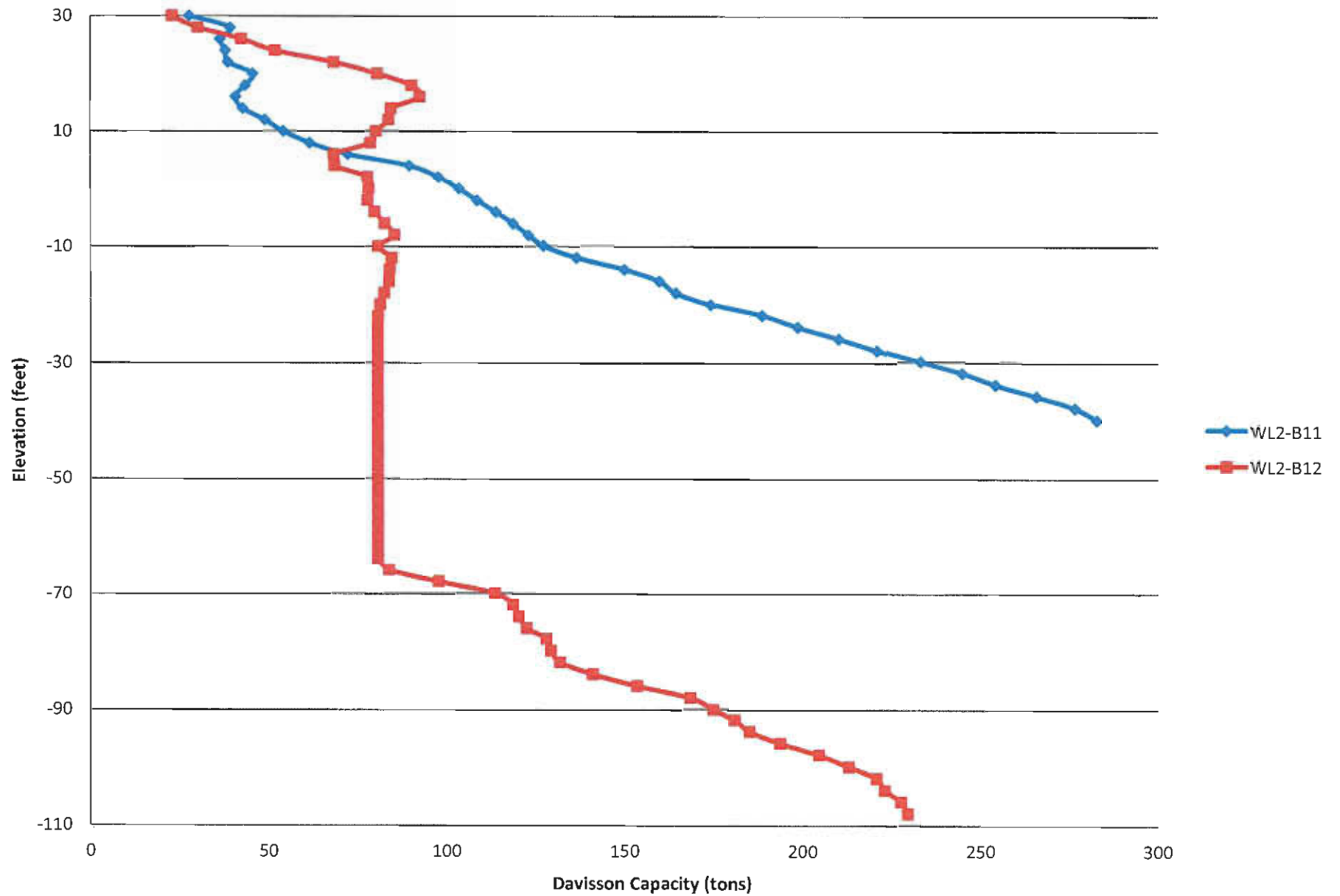
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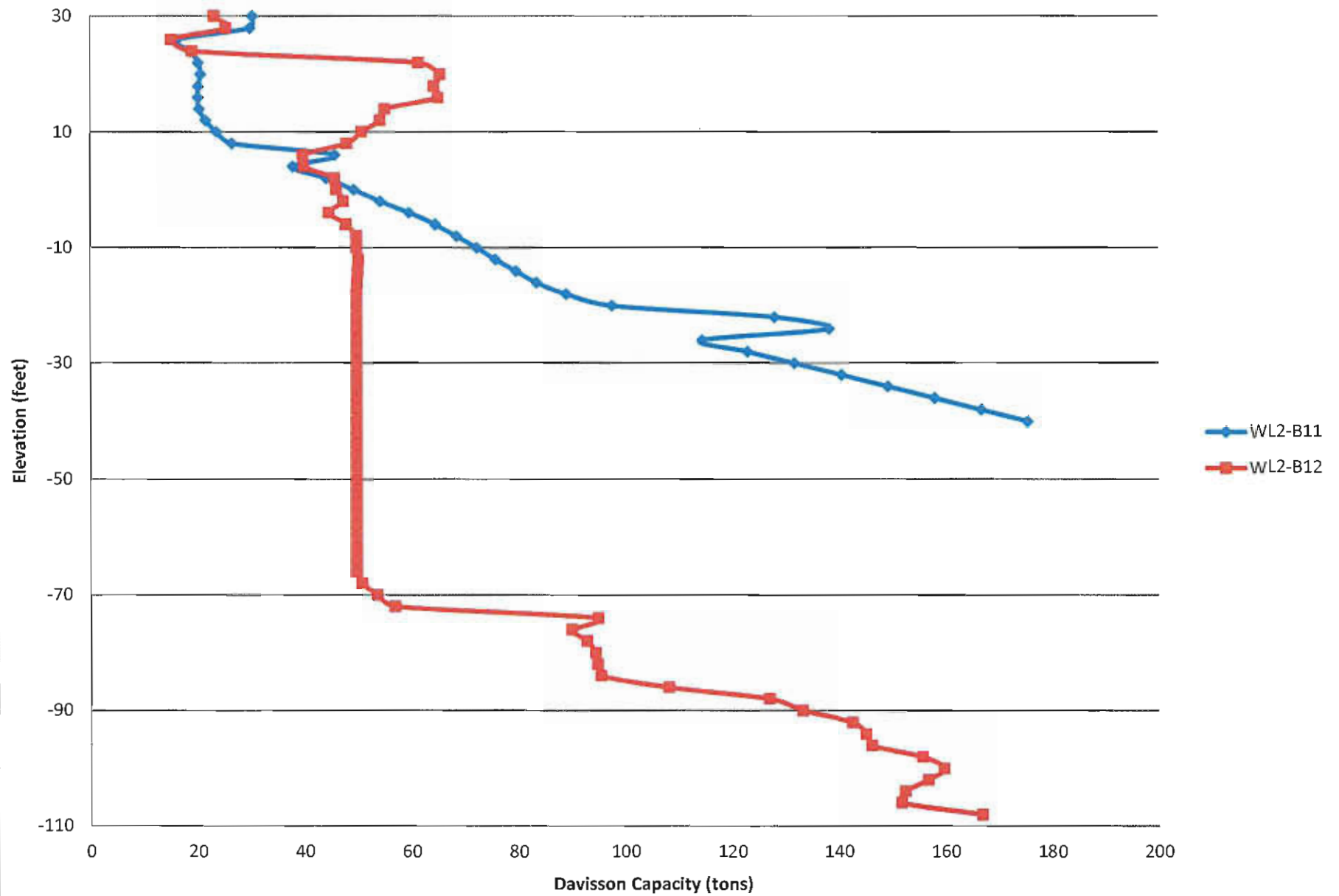
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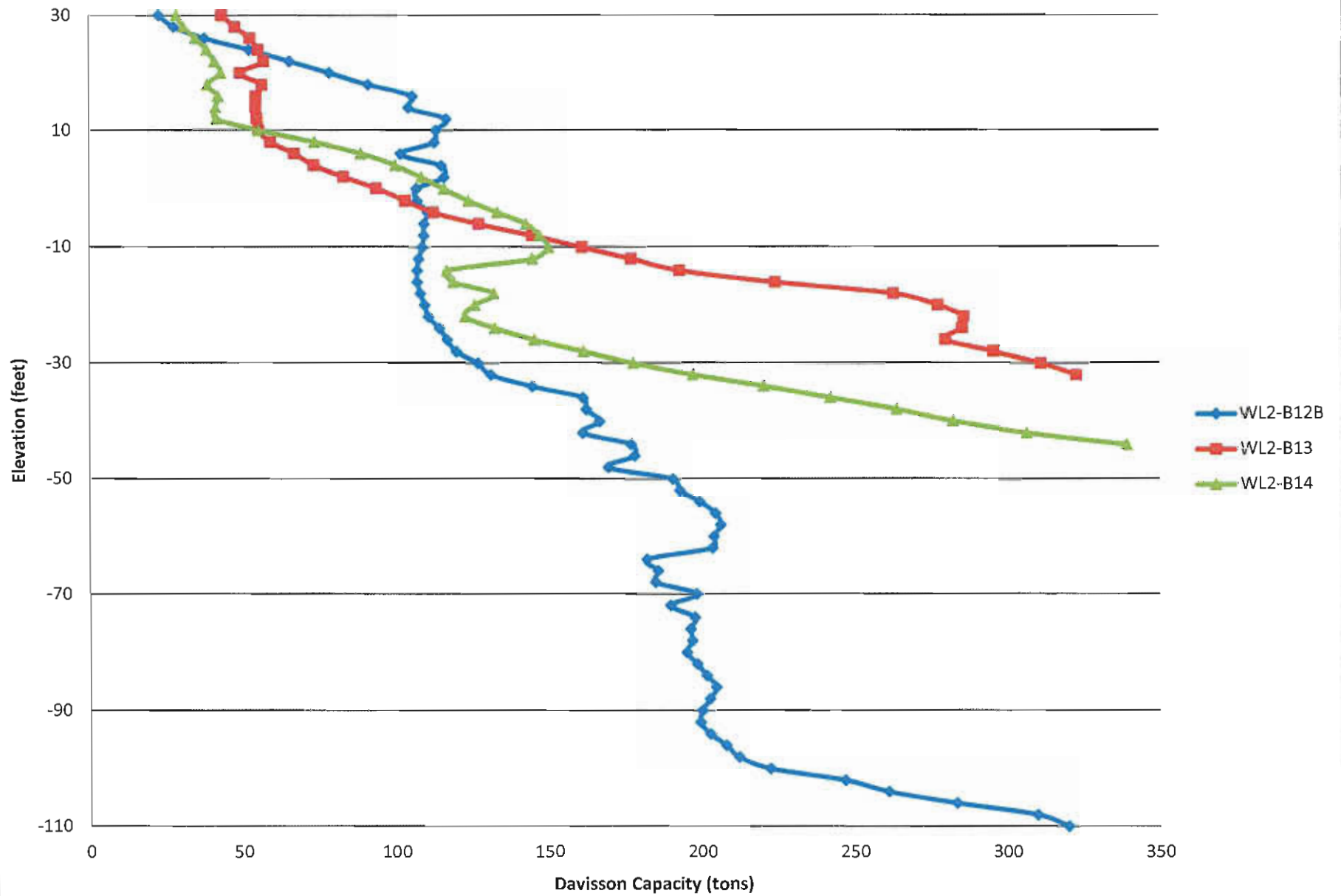
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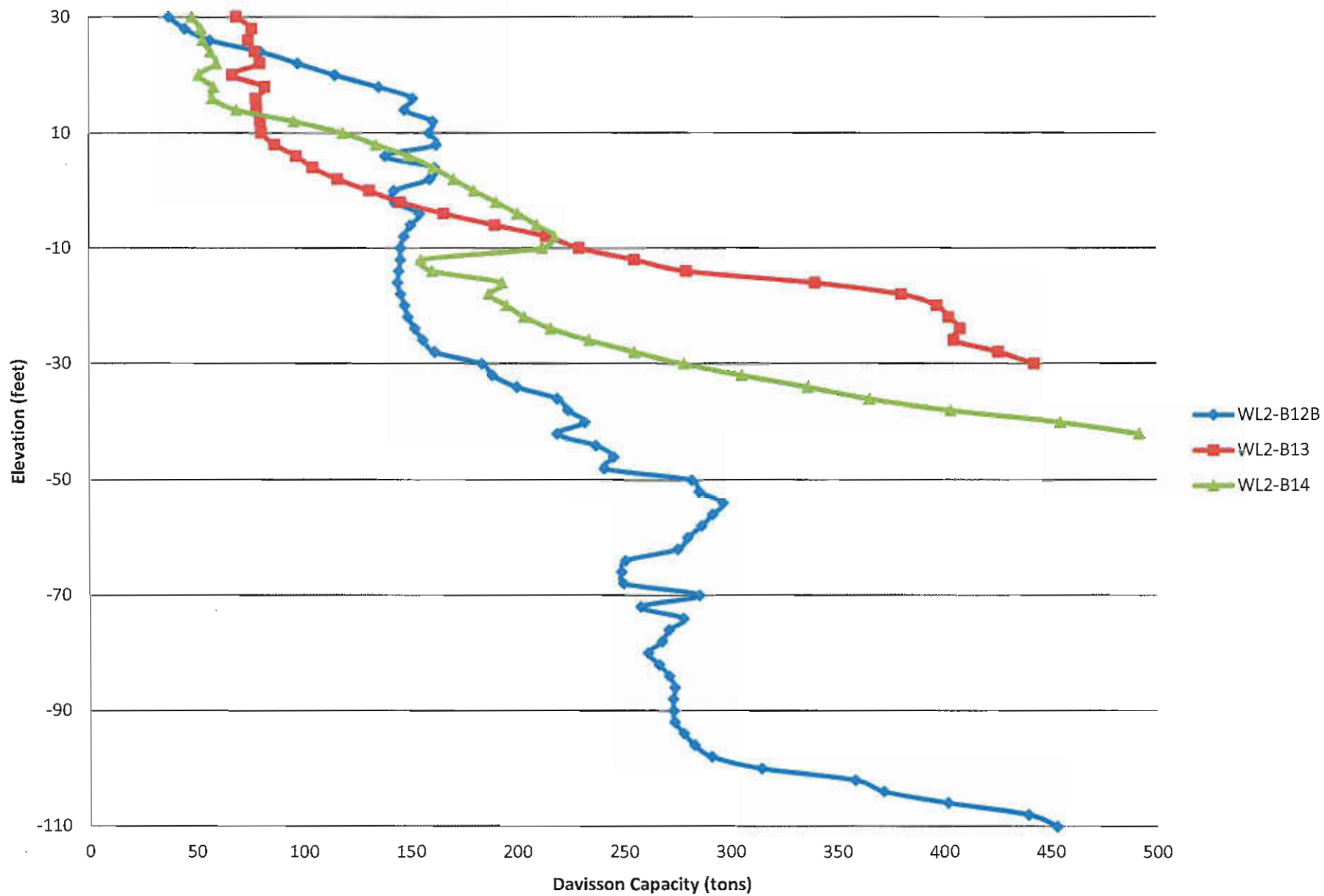
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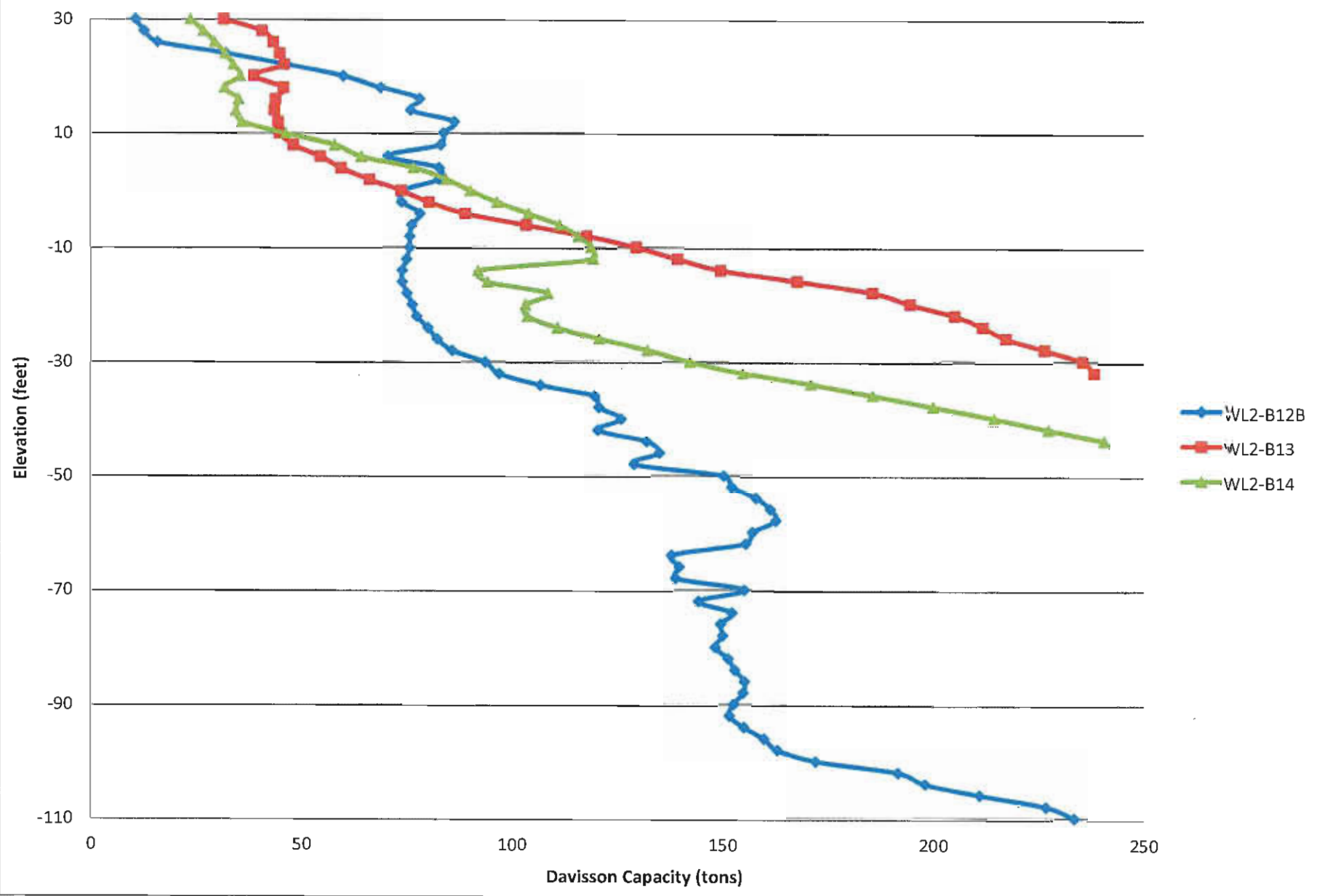
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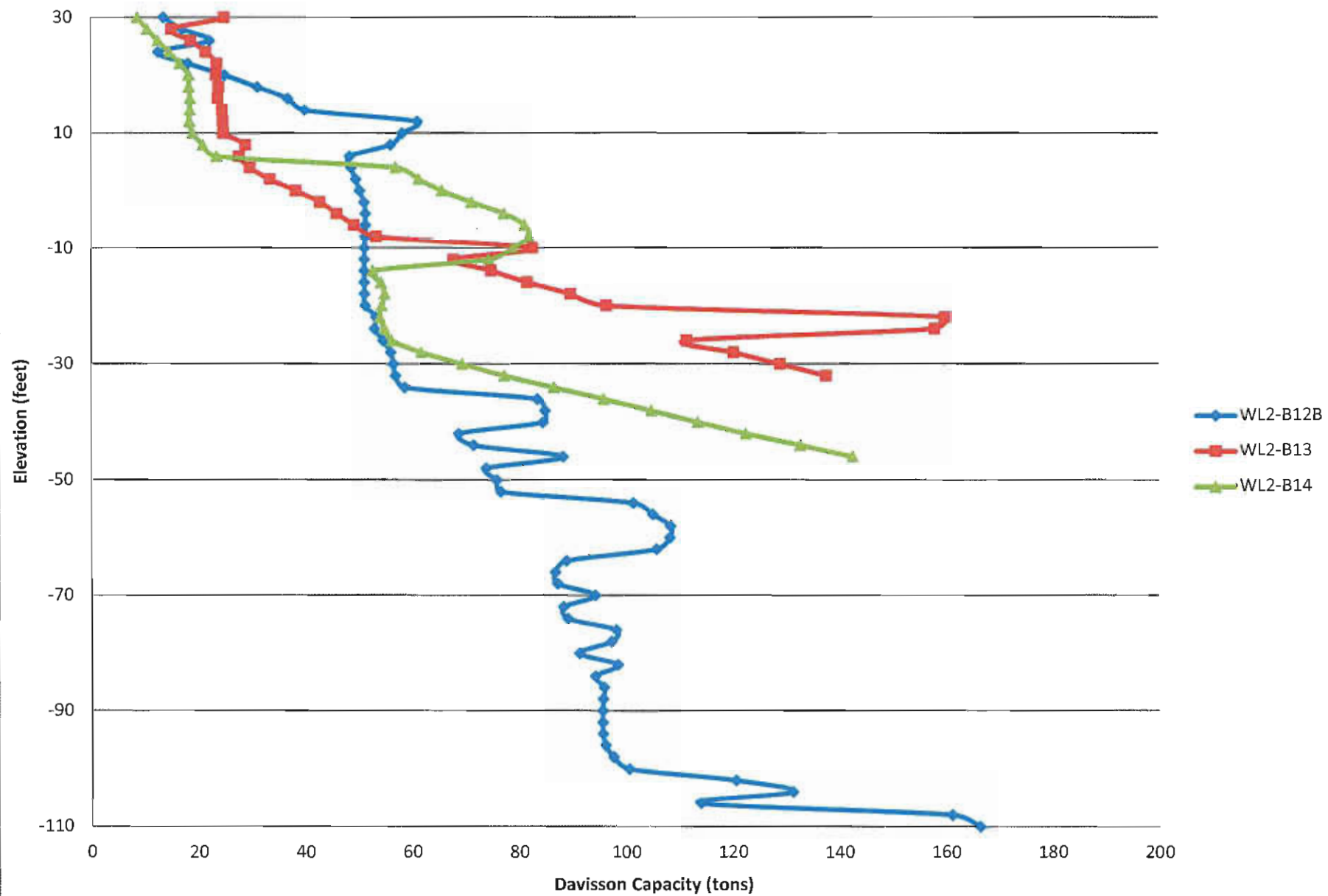
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### Bent 8 - 20" Pipe Pile

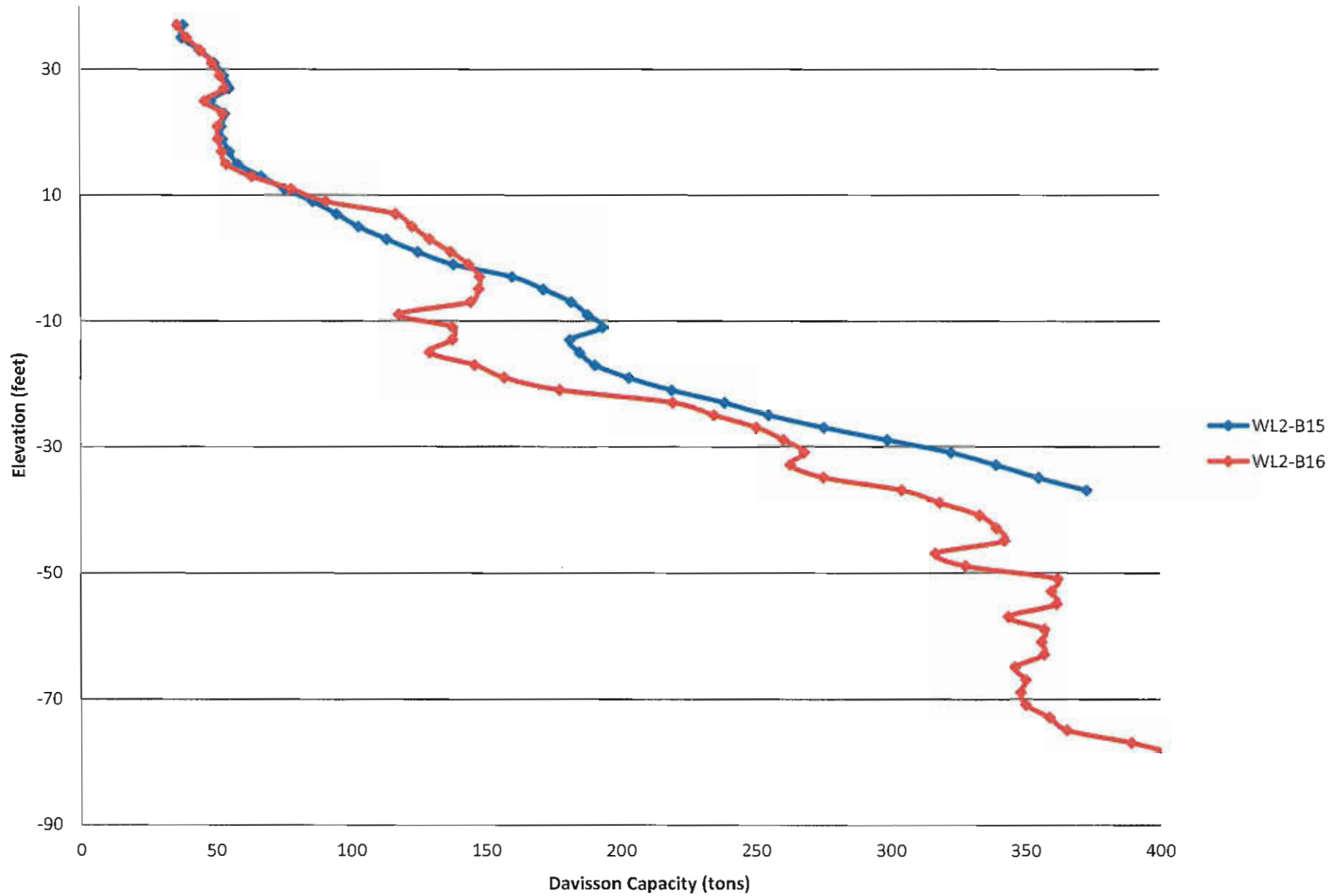


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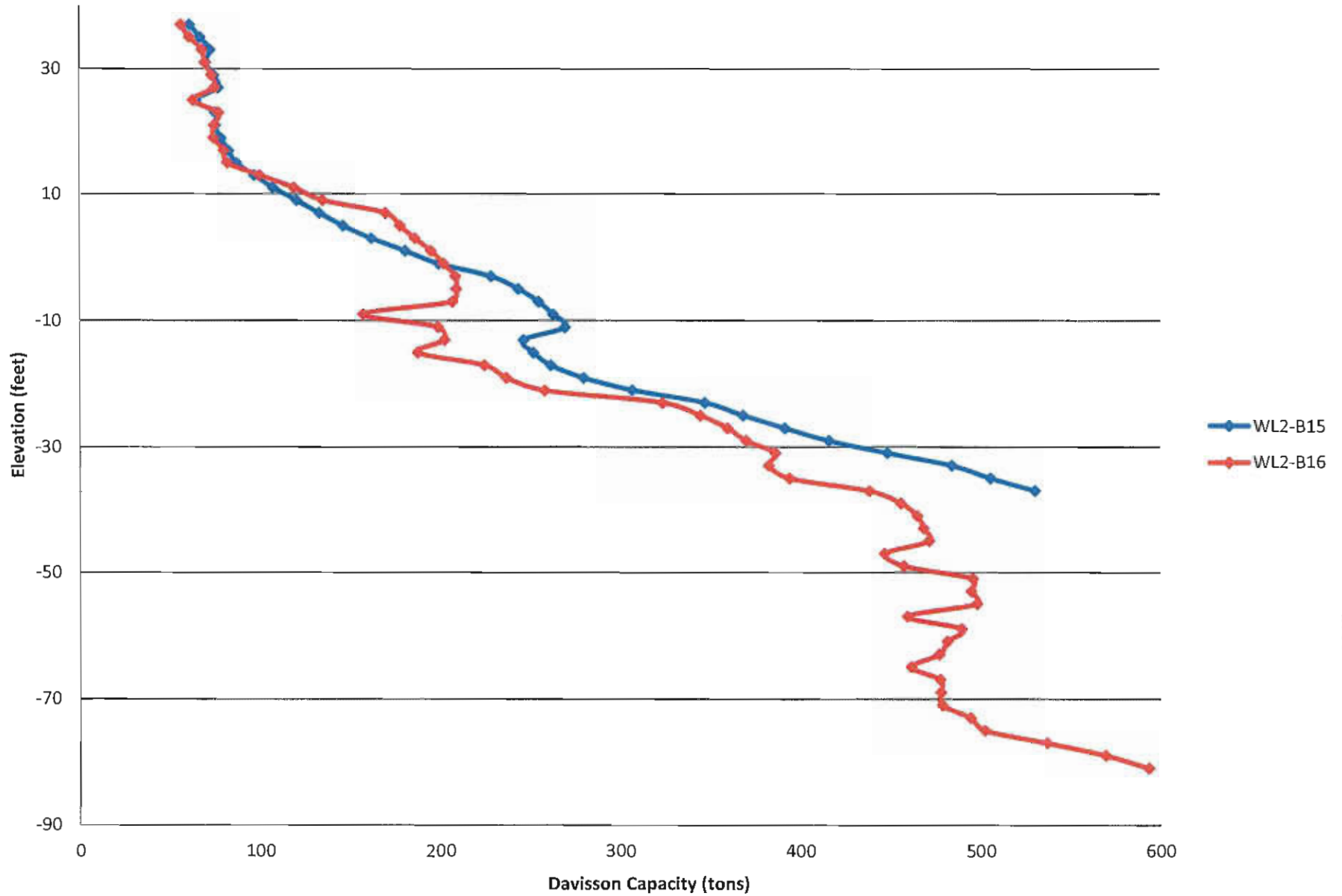




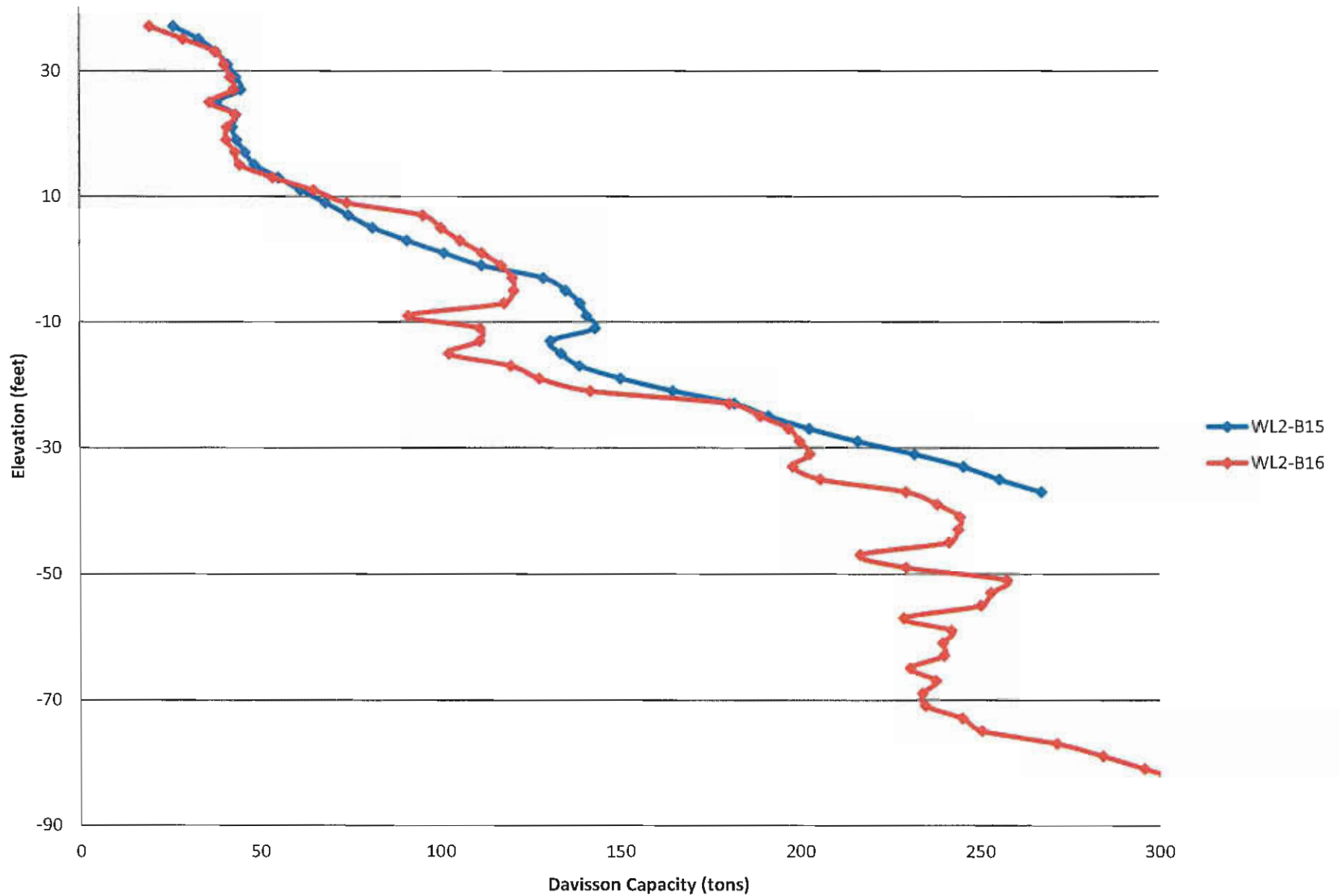
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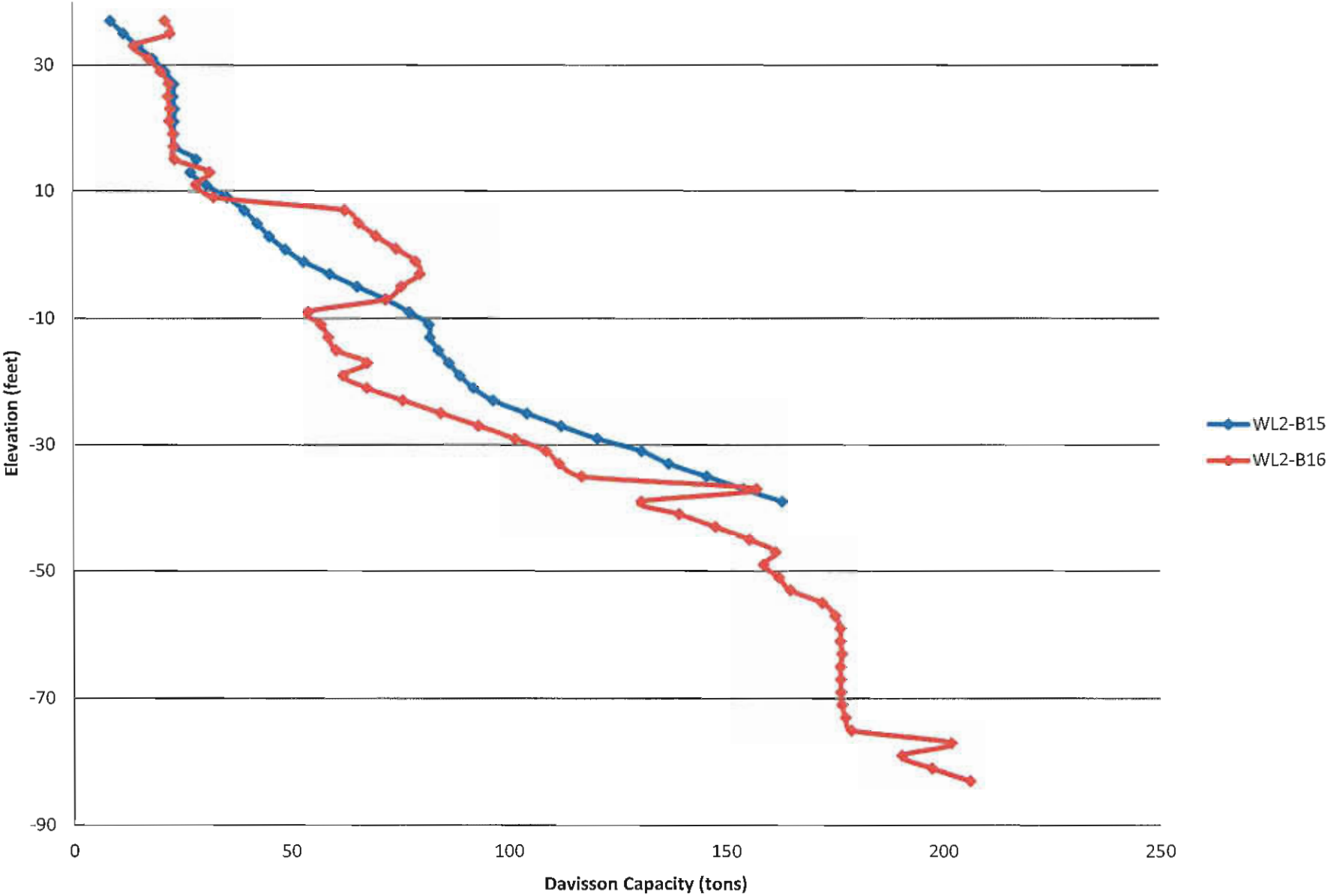
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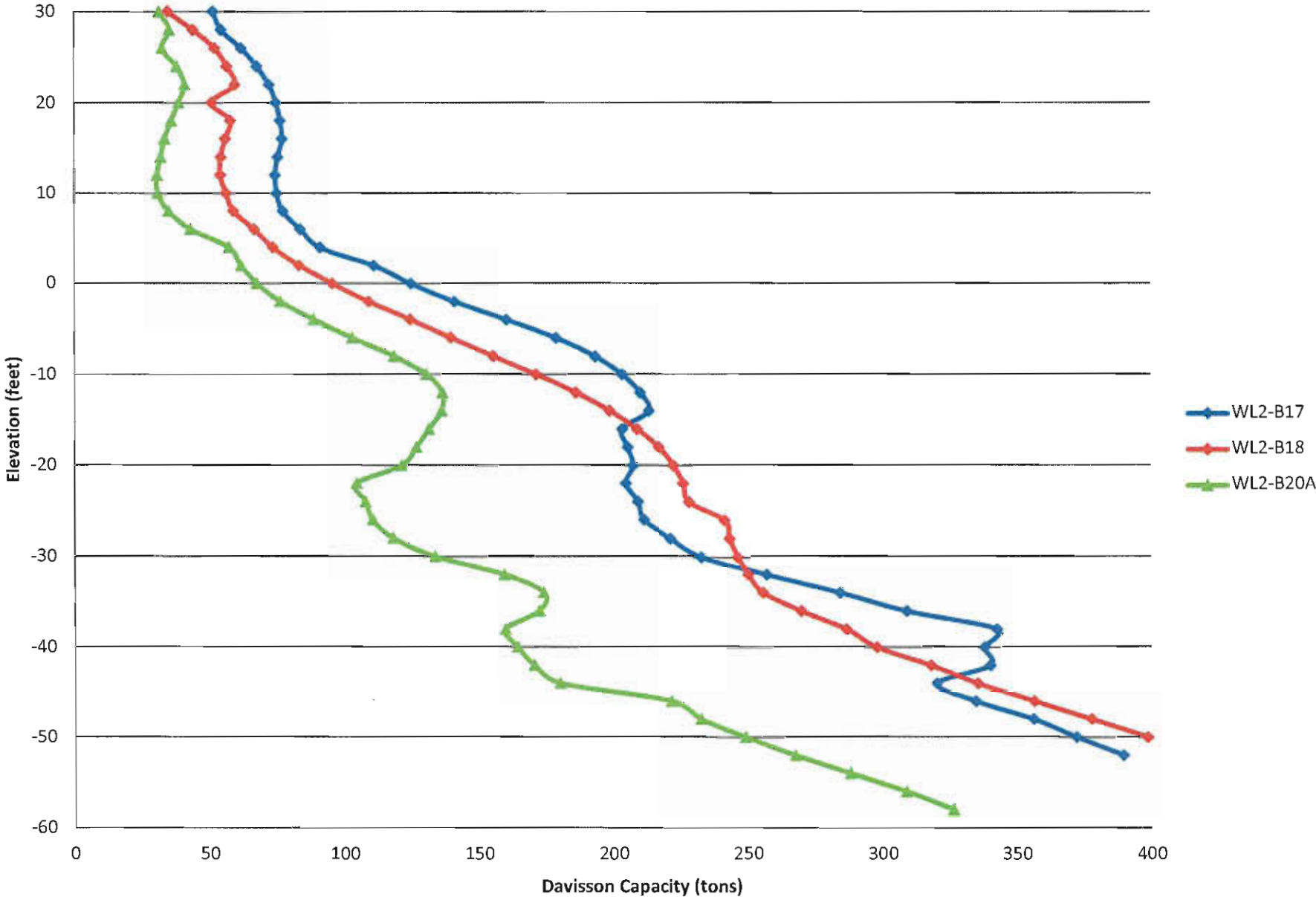
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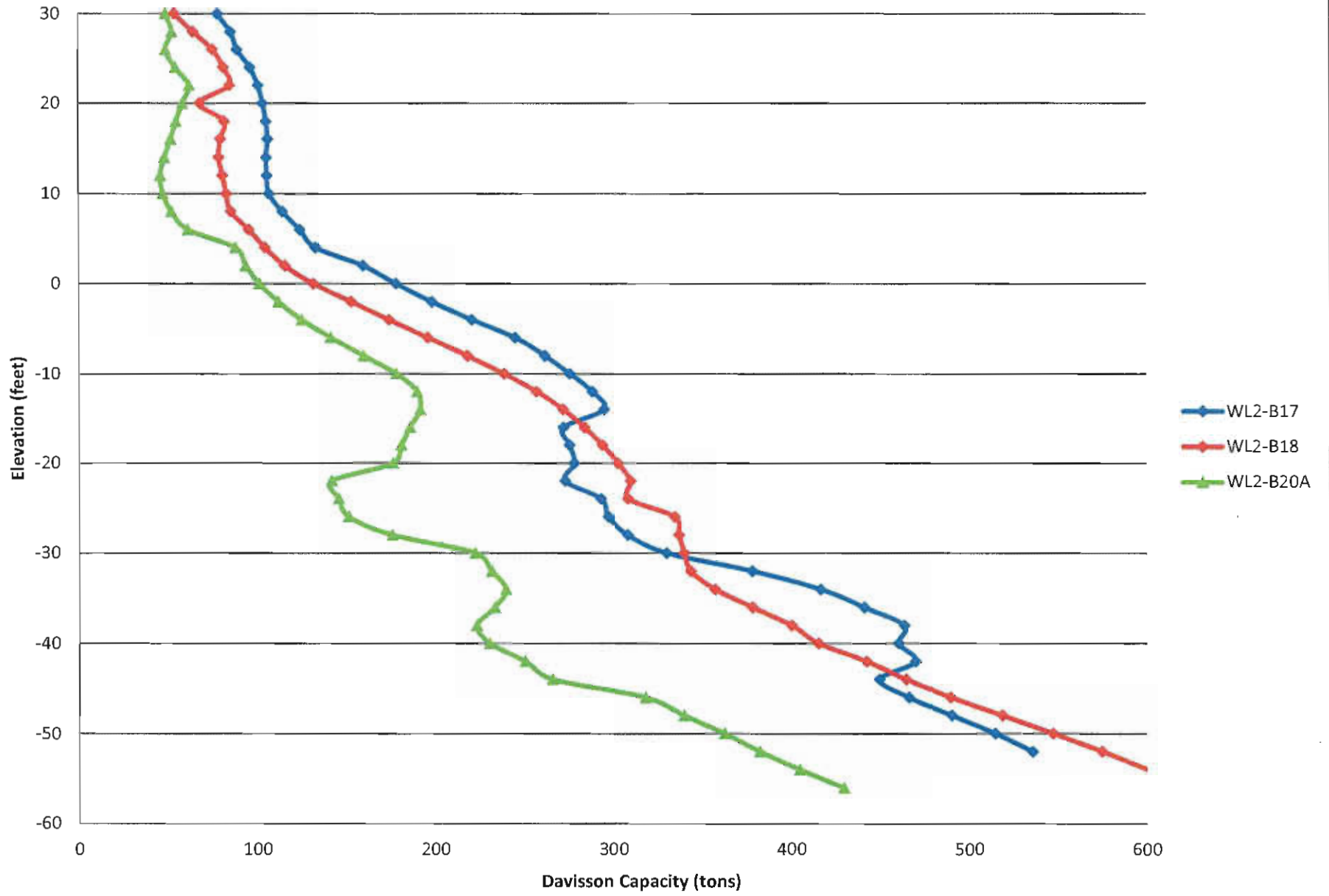
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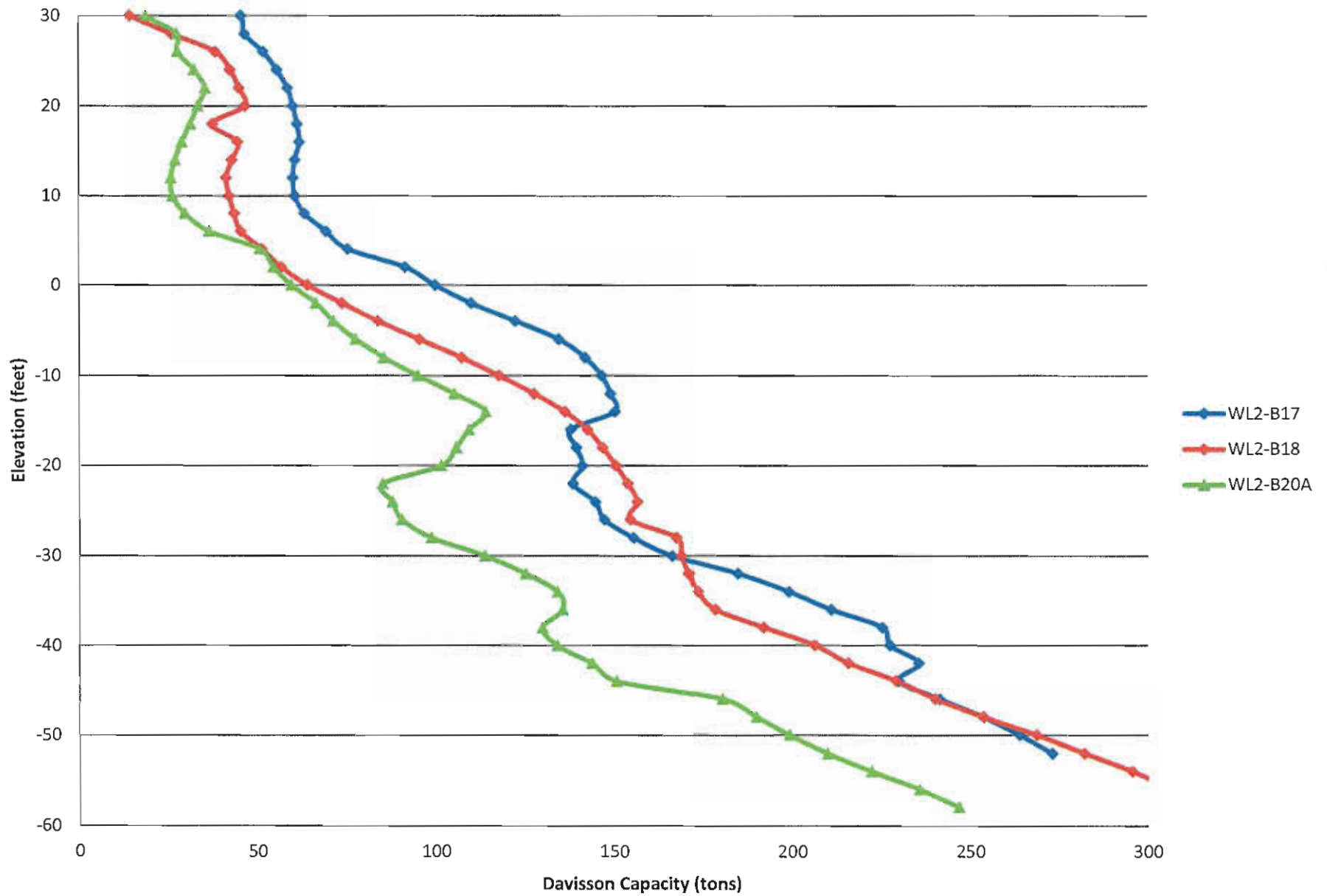
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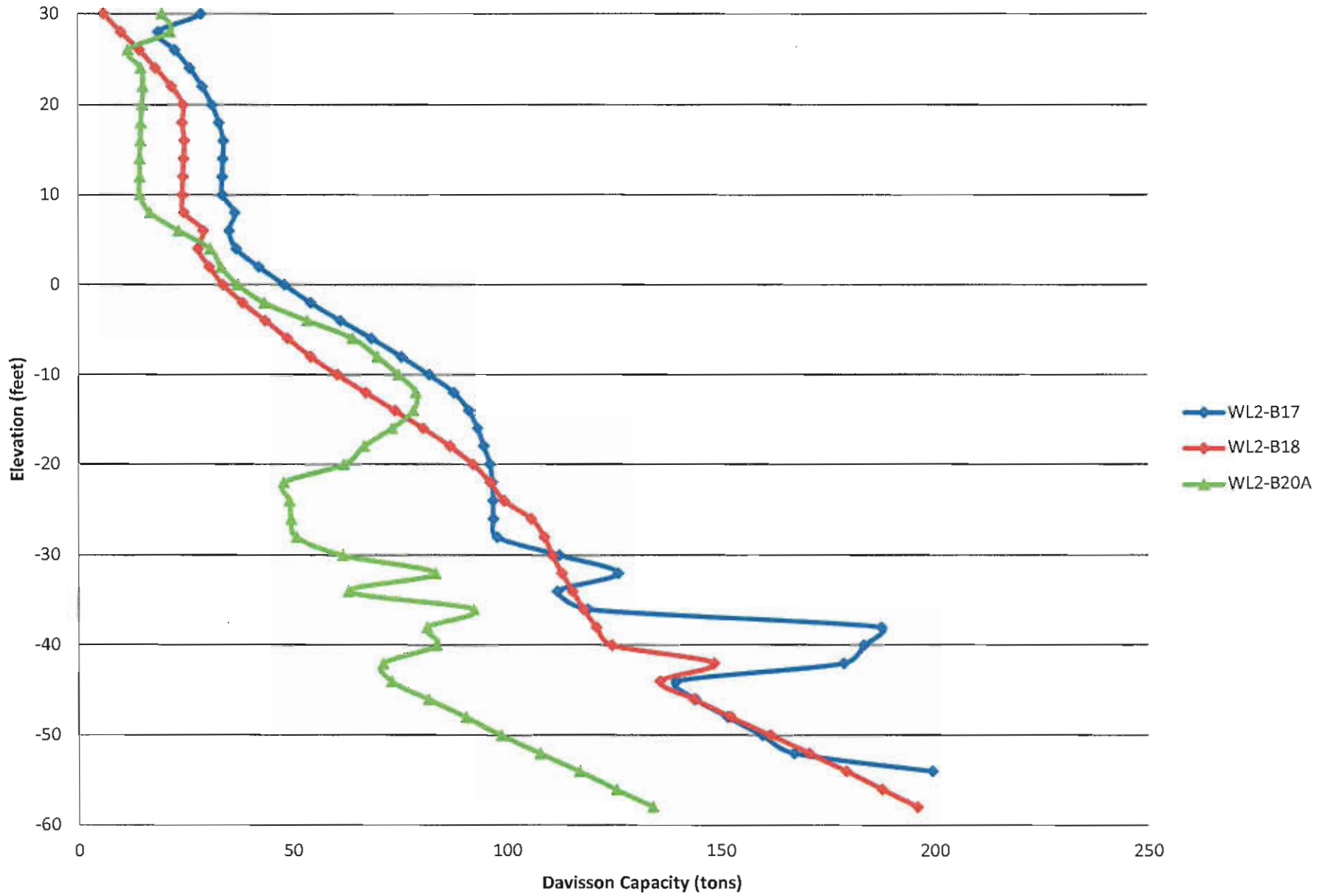
# Bent 10 - 24" PCP



# Bent 10 - 20" Pipe Pile

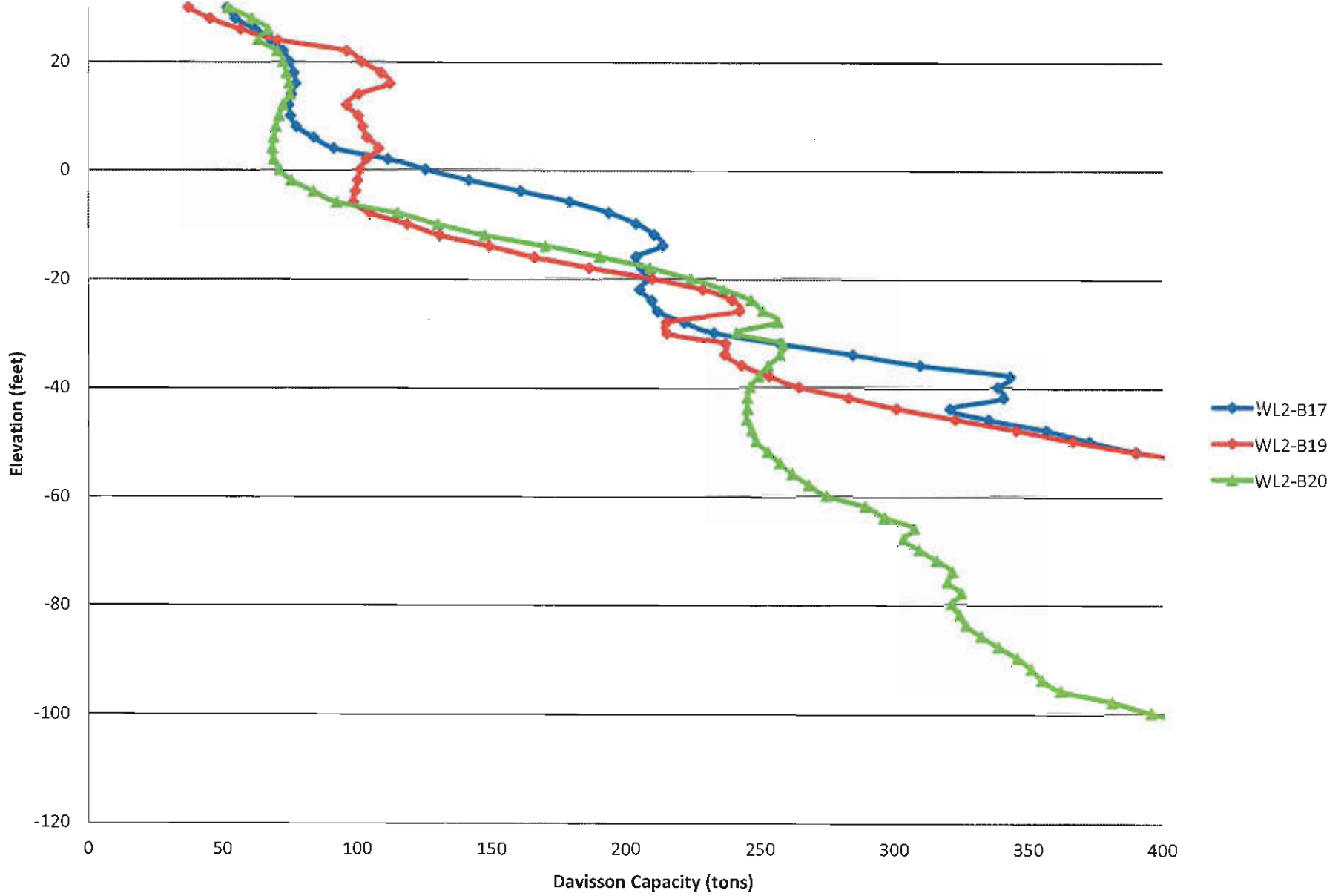


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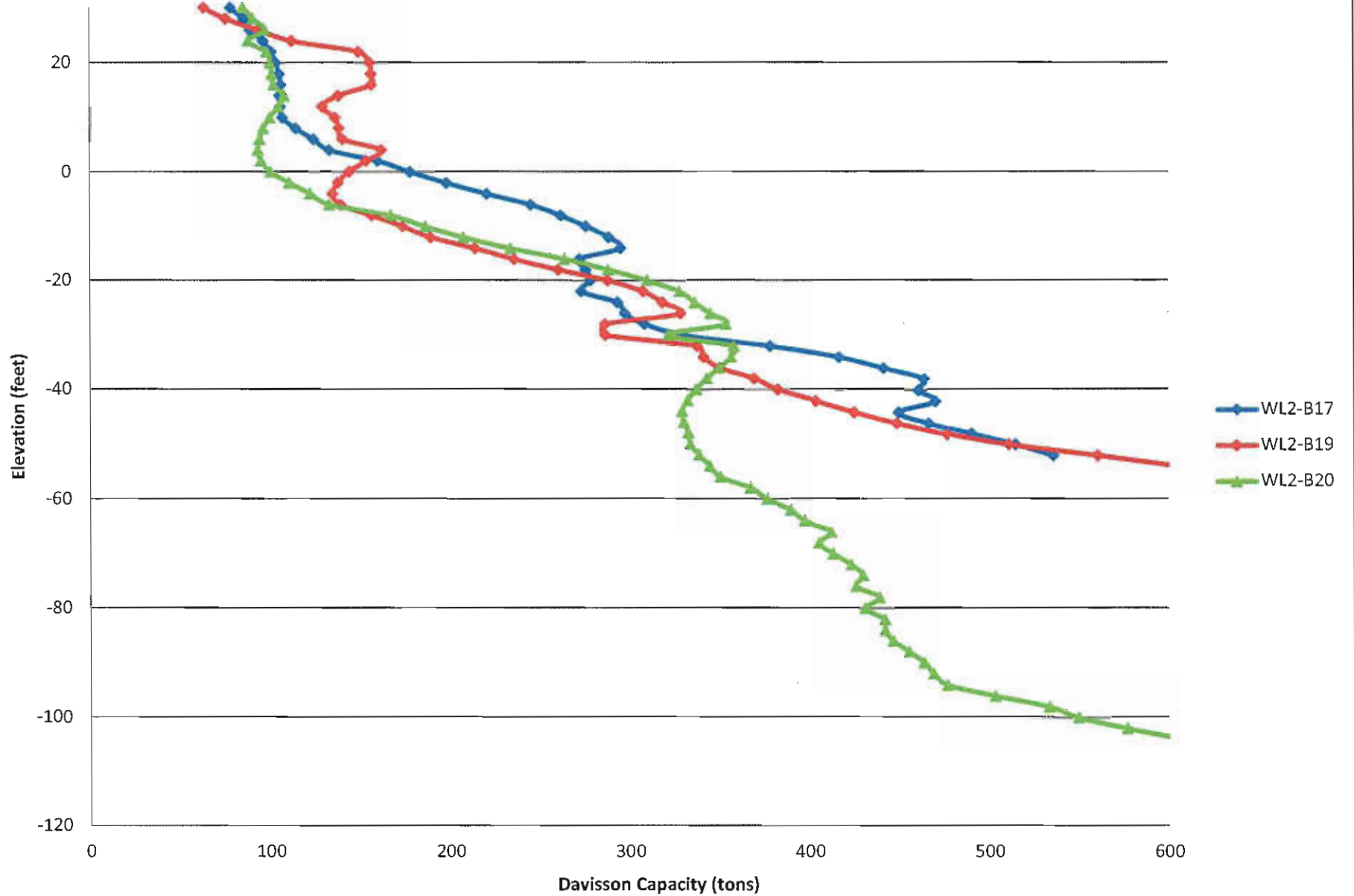




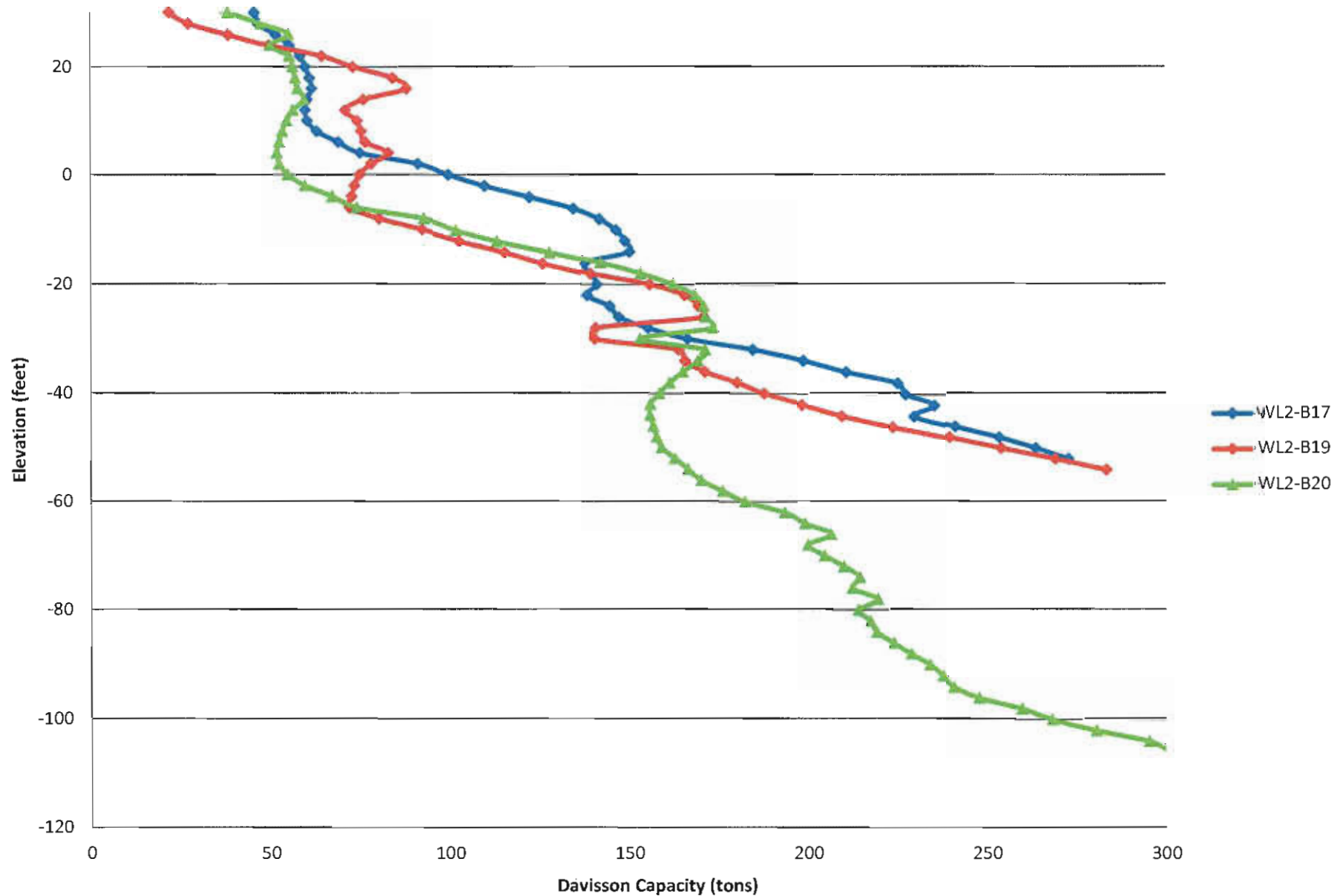
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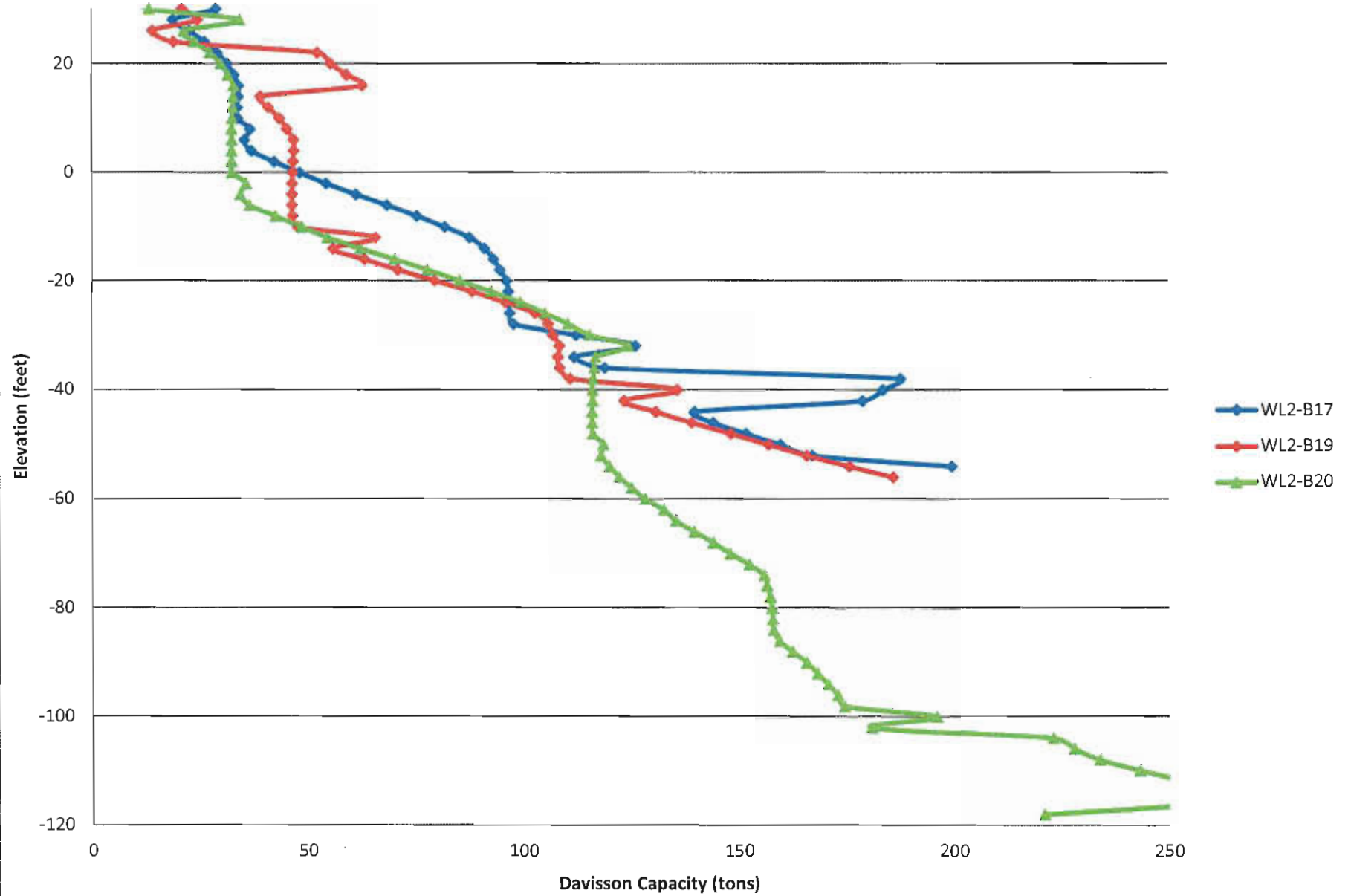
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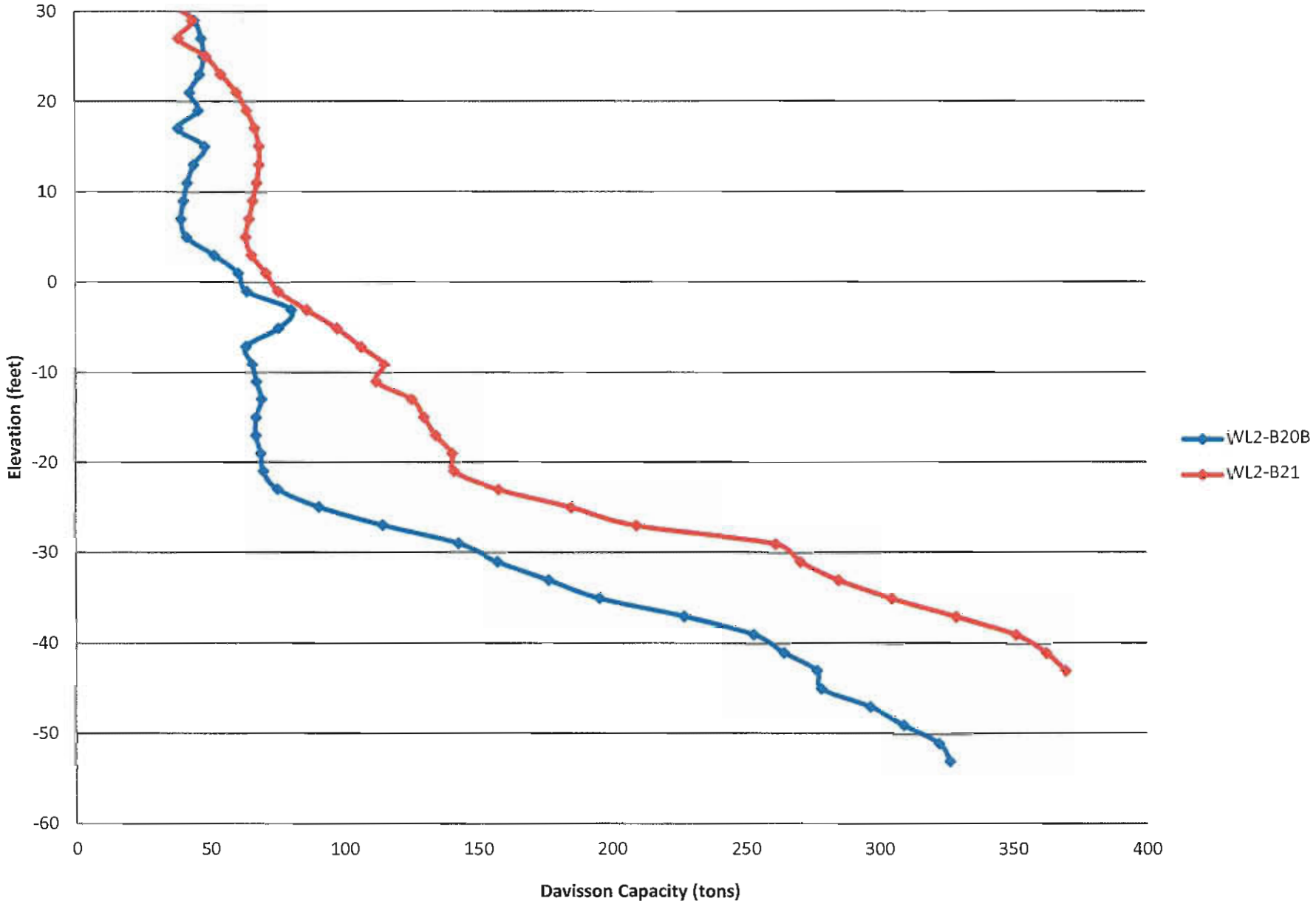
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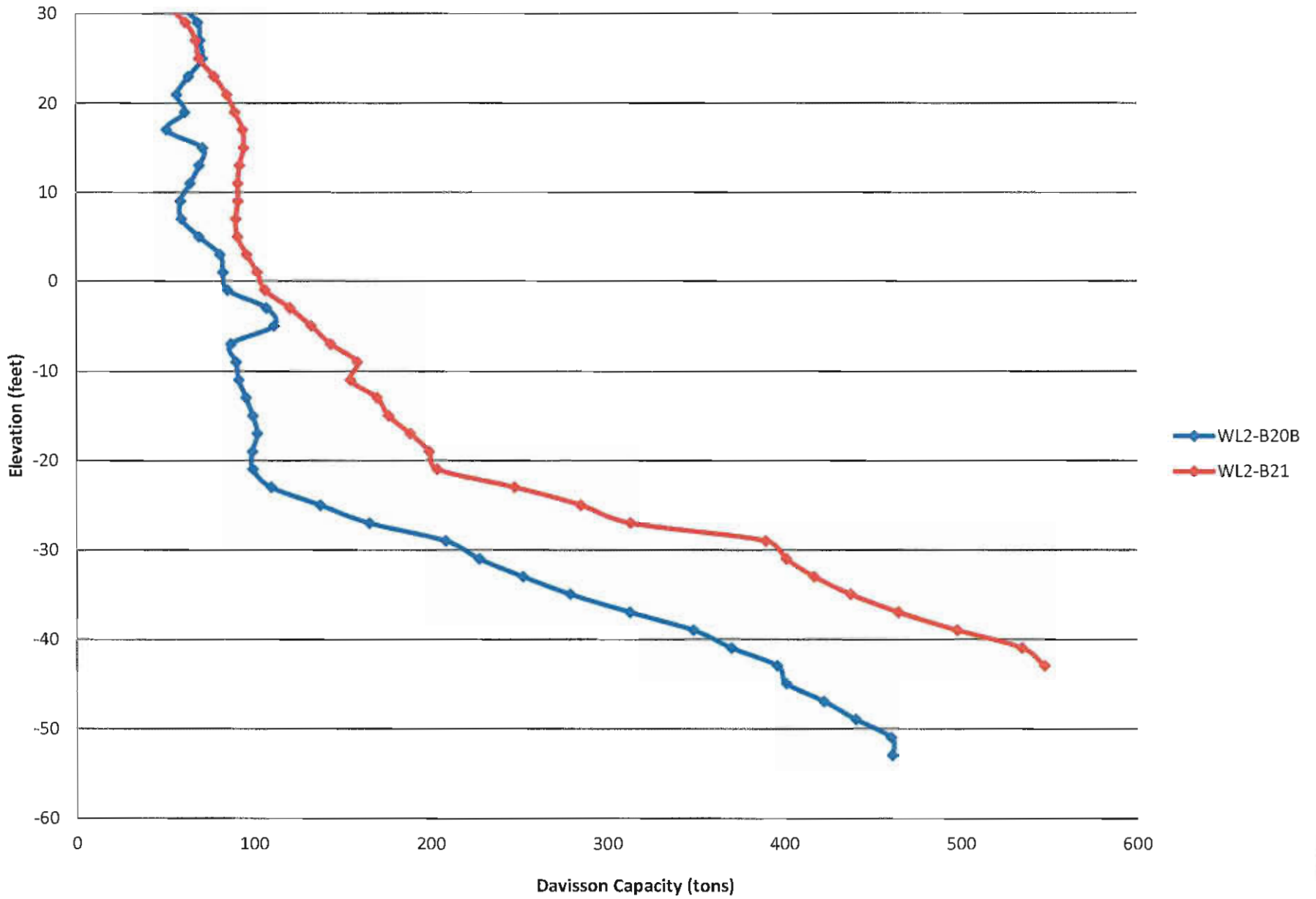
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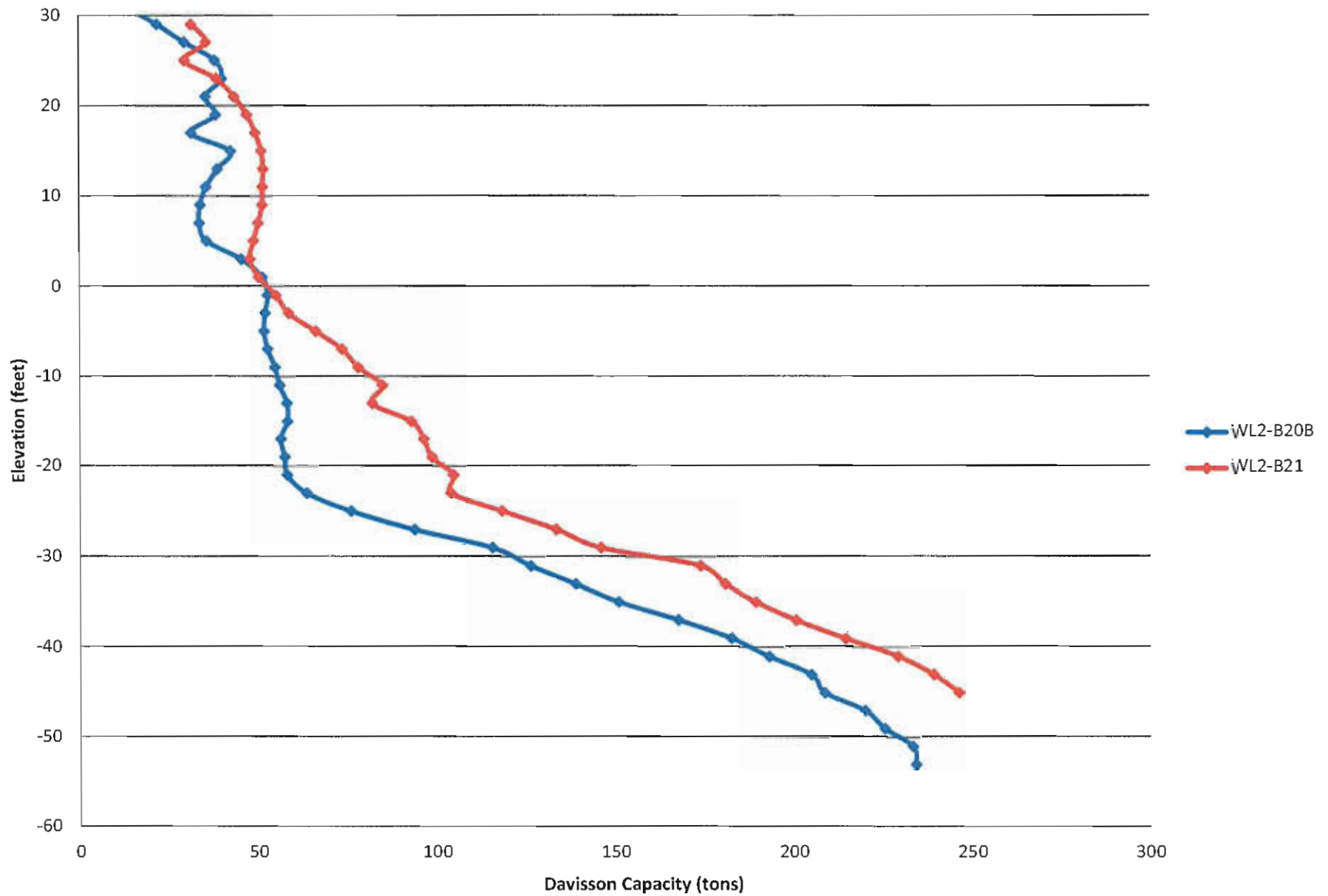
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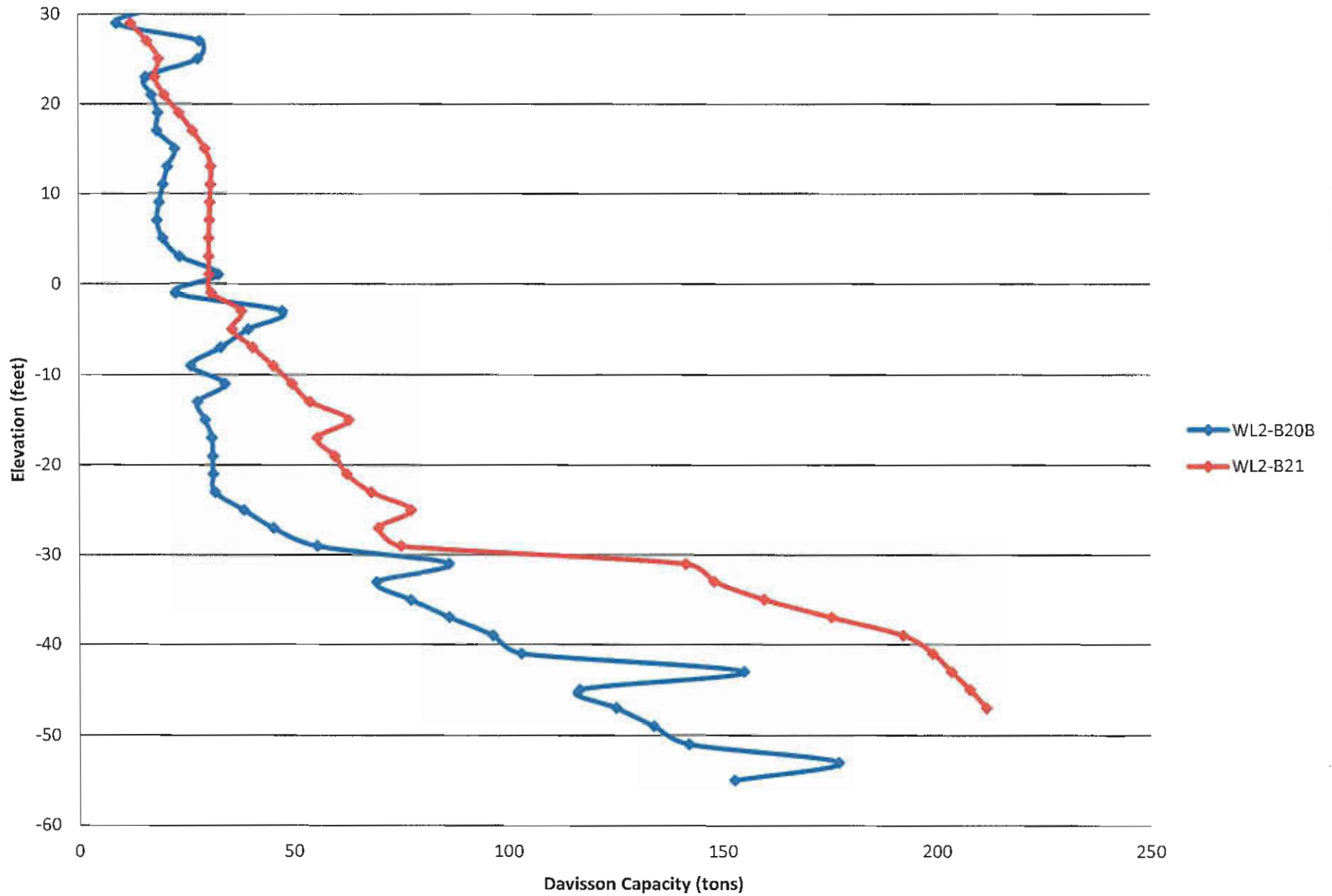
# Bent 12 - 24" PCP



### Bent 12 - 20" Pipe Pile

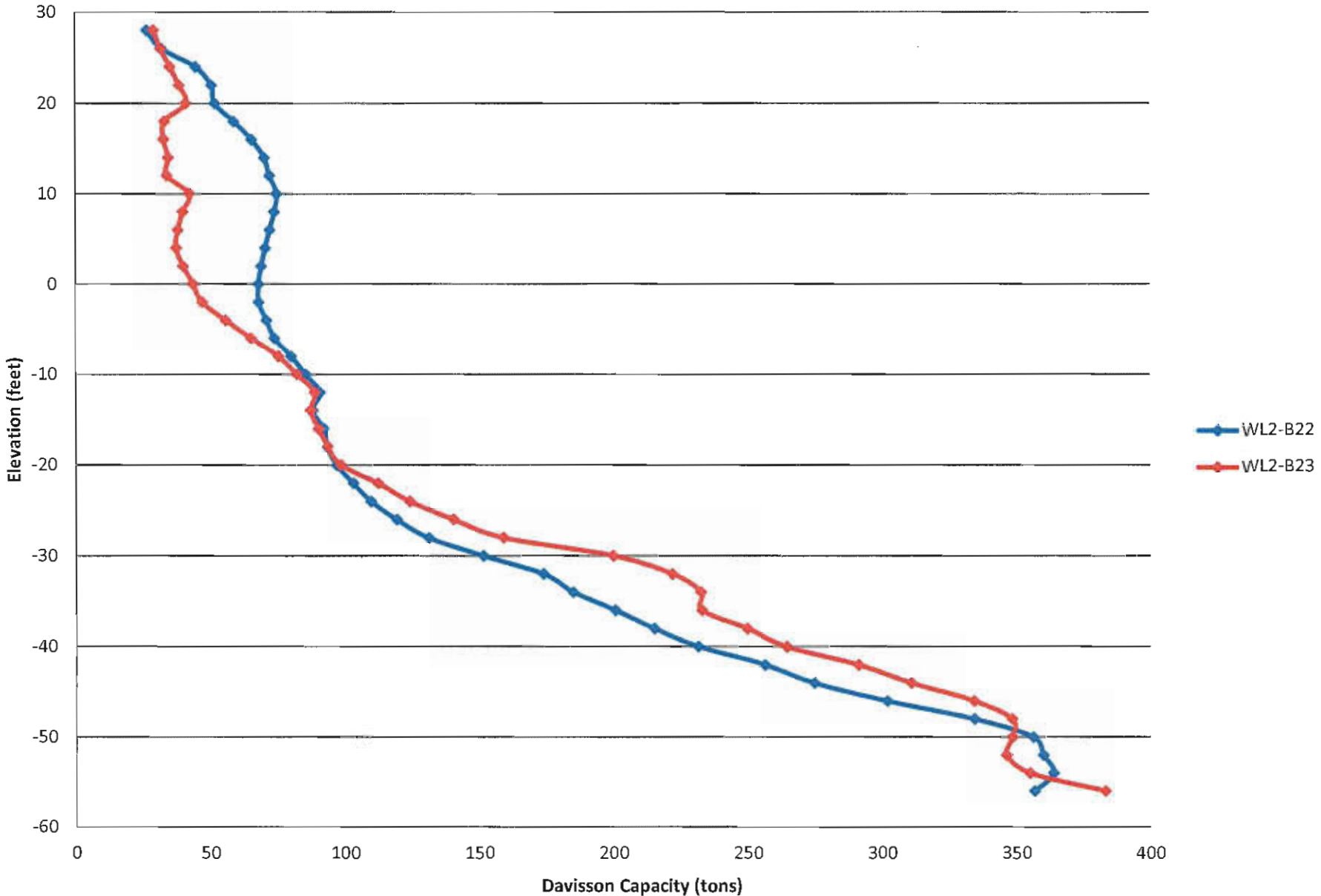


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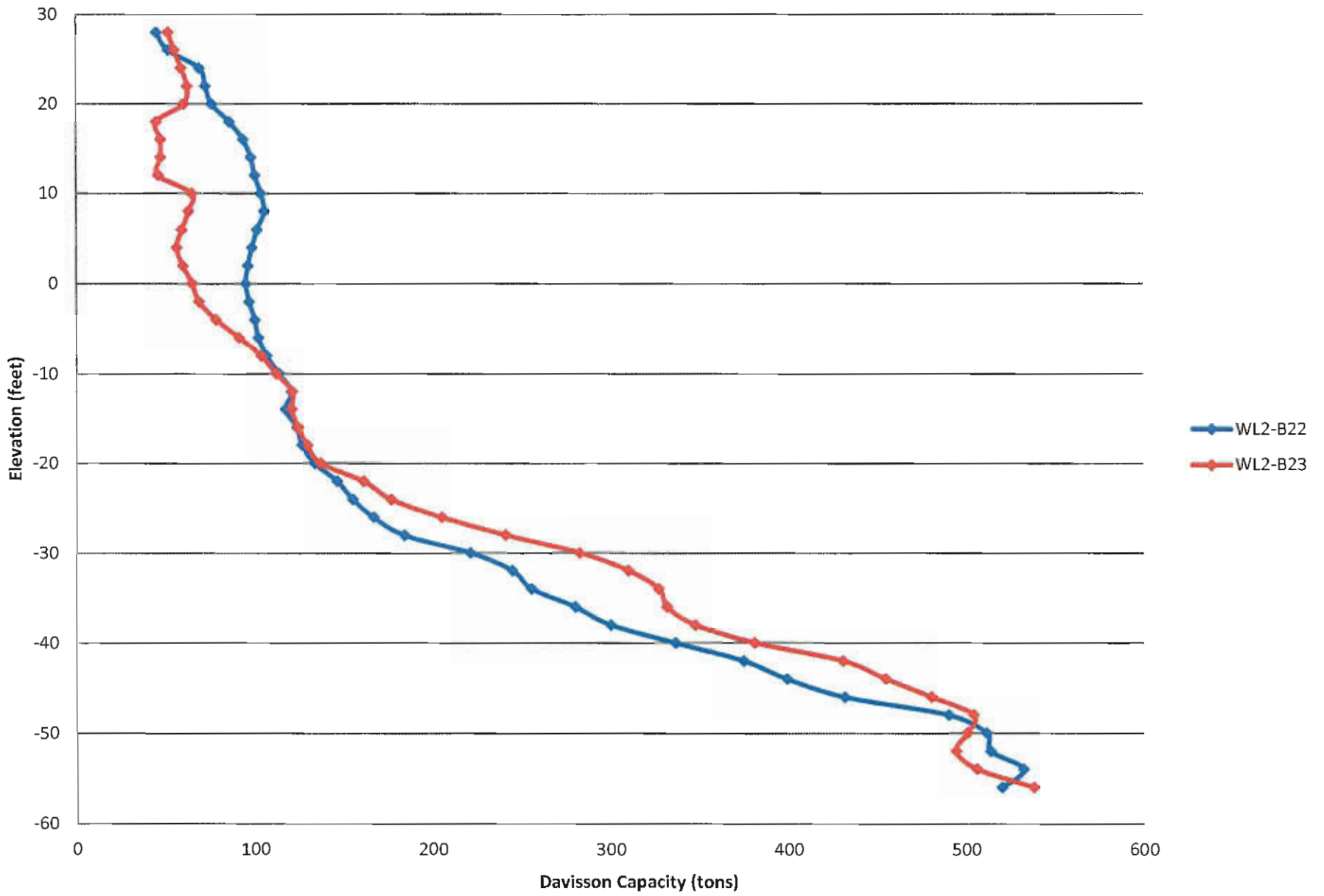




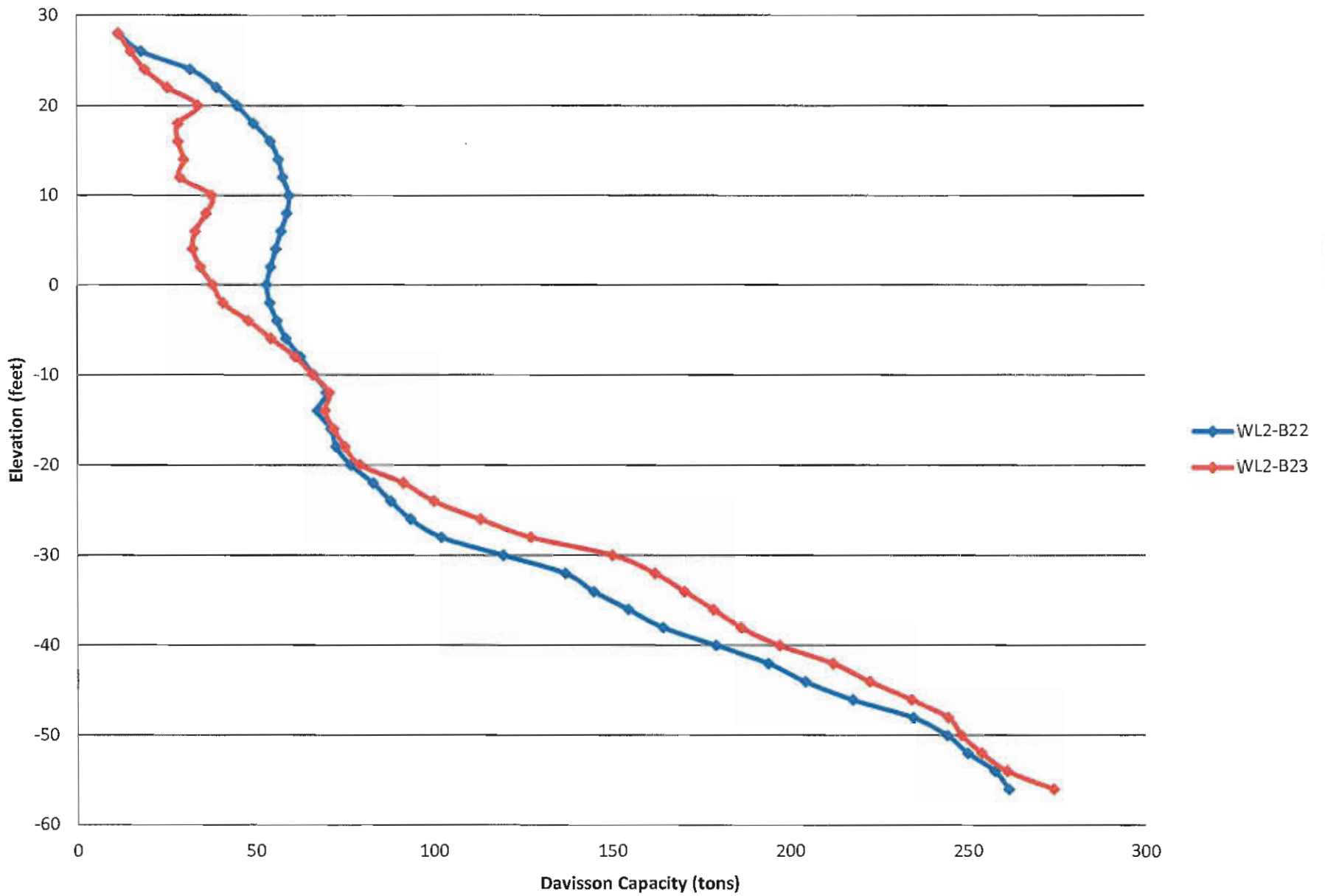
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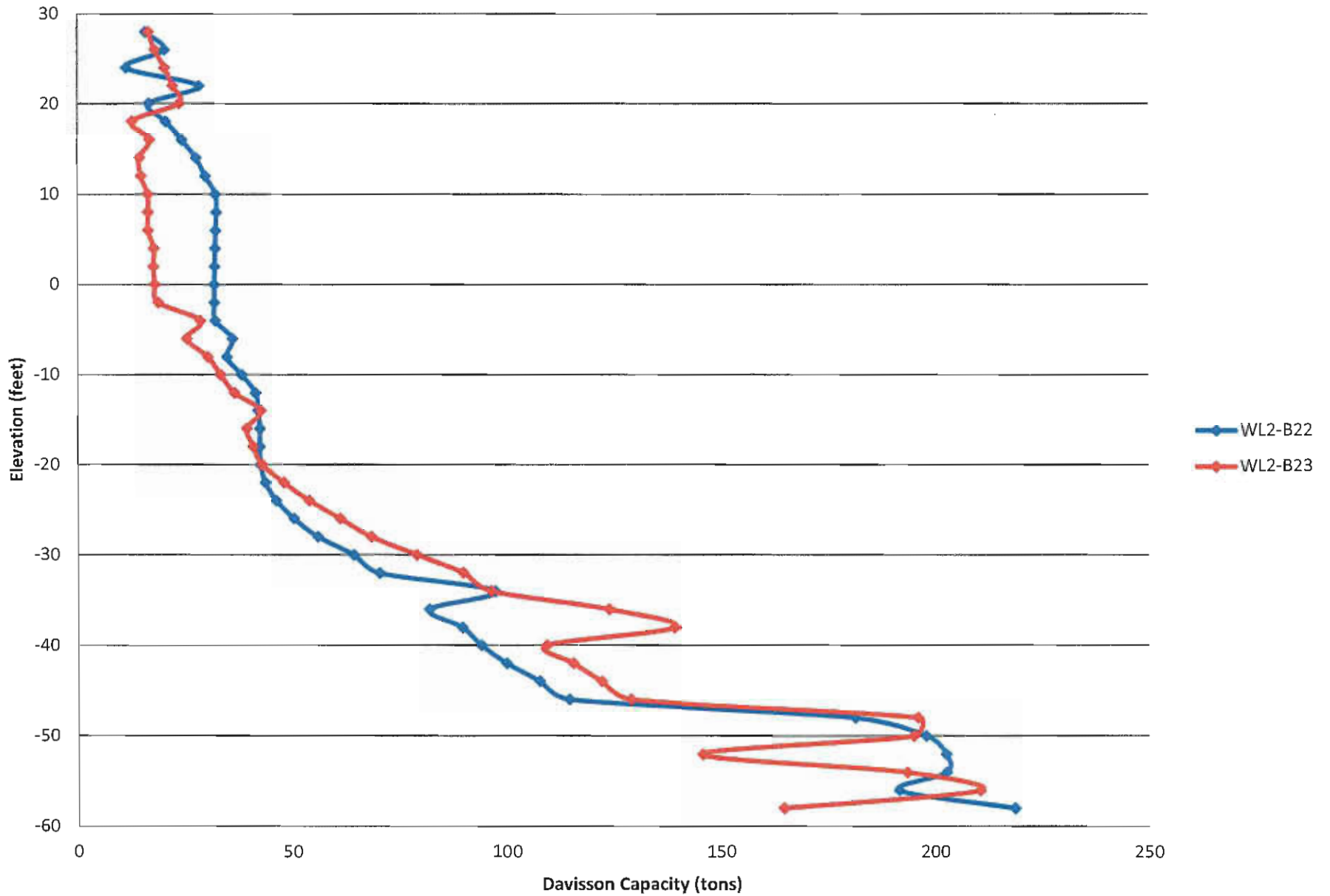
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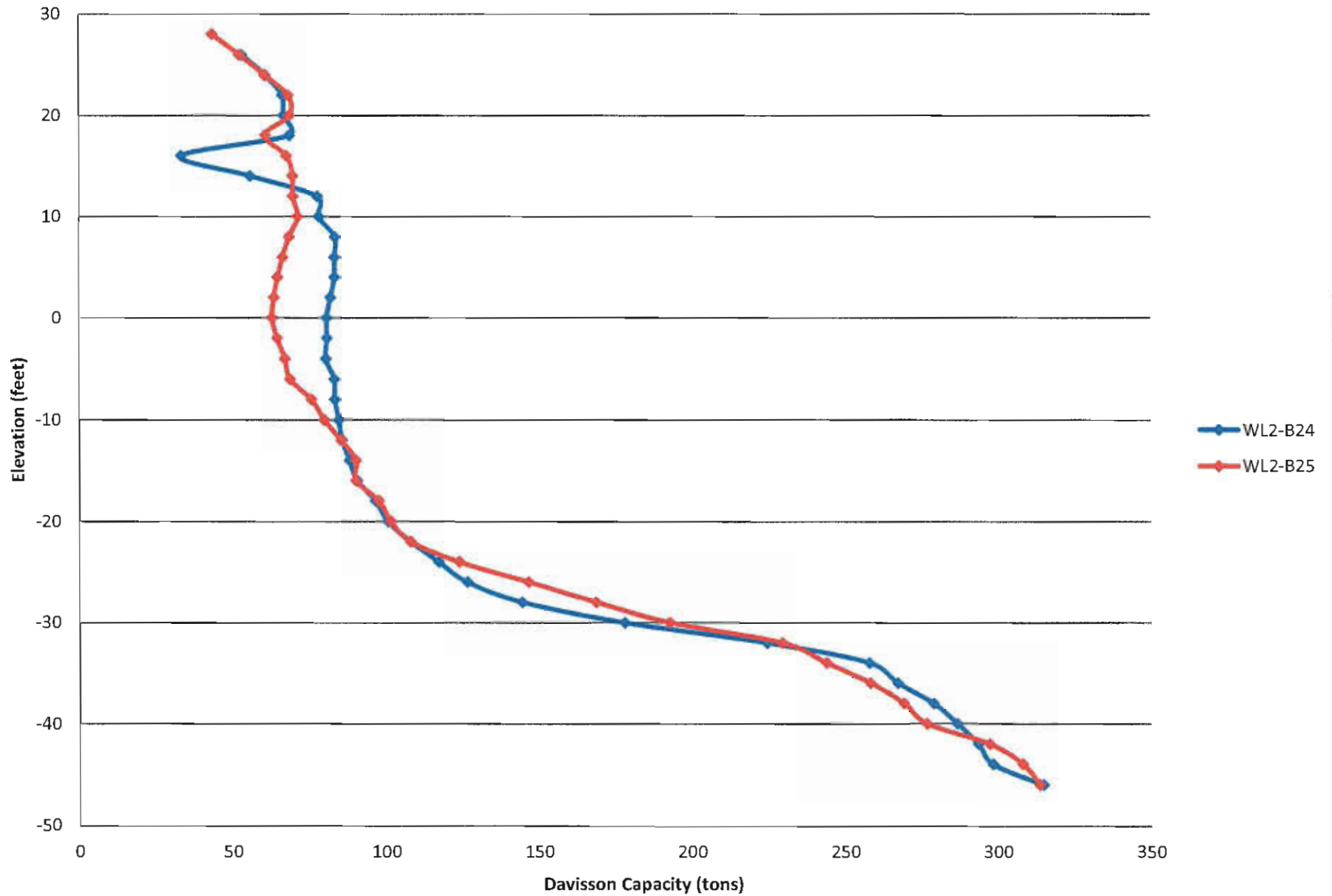
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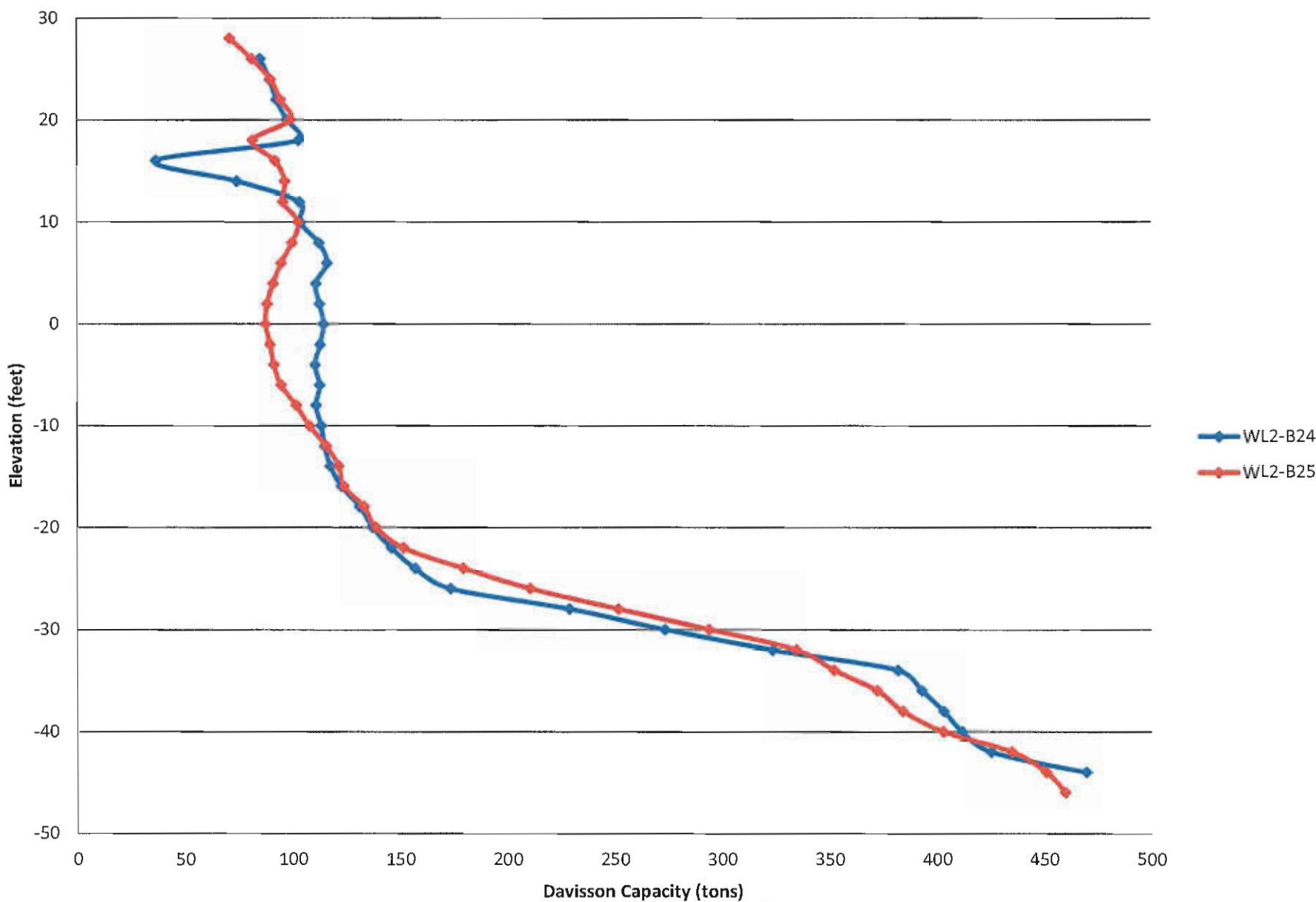
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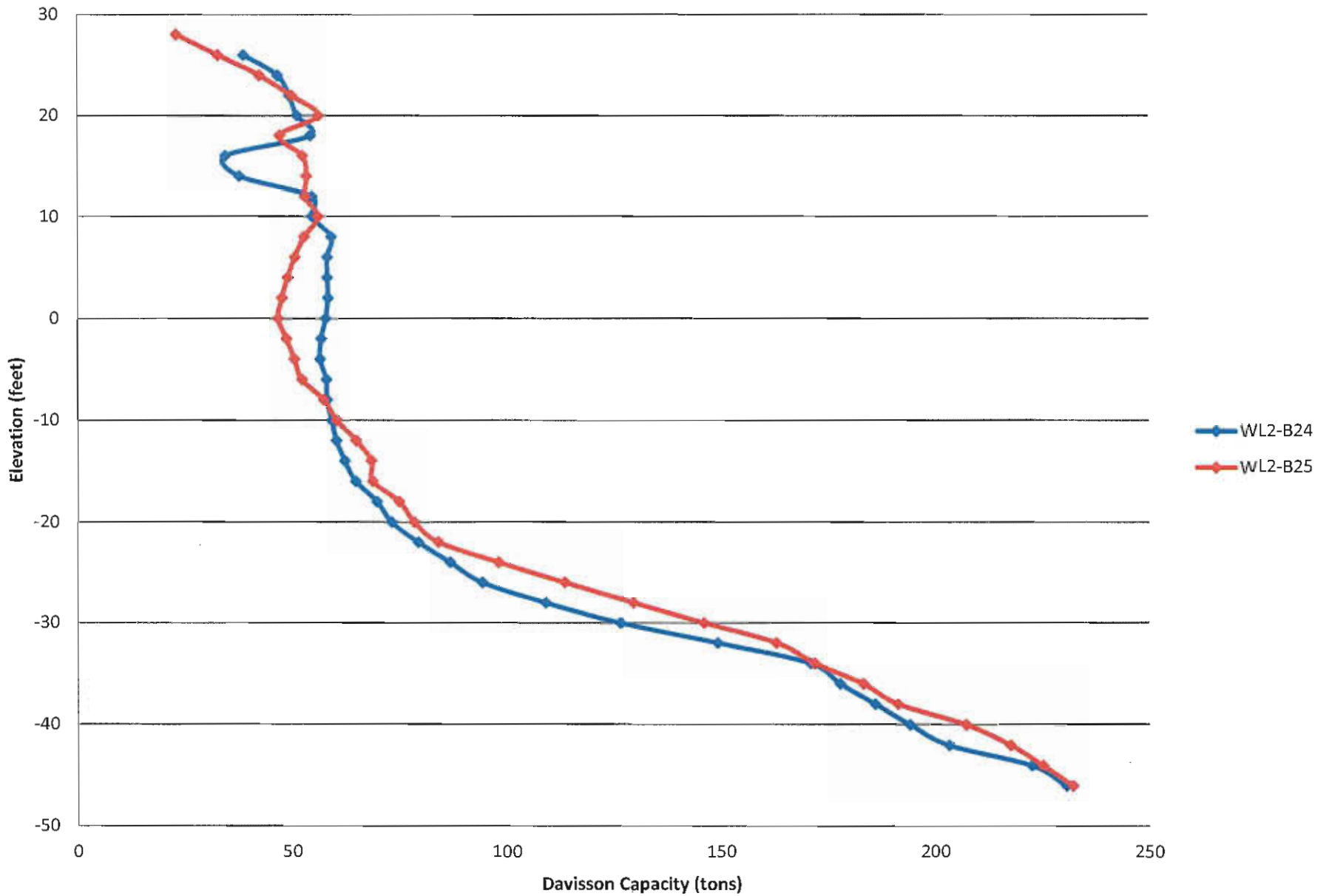
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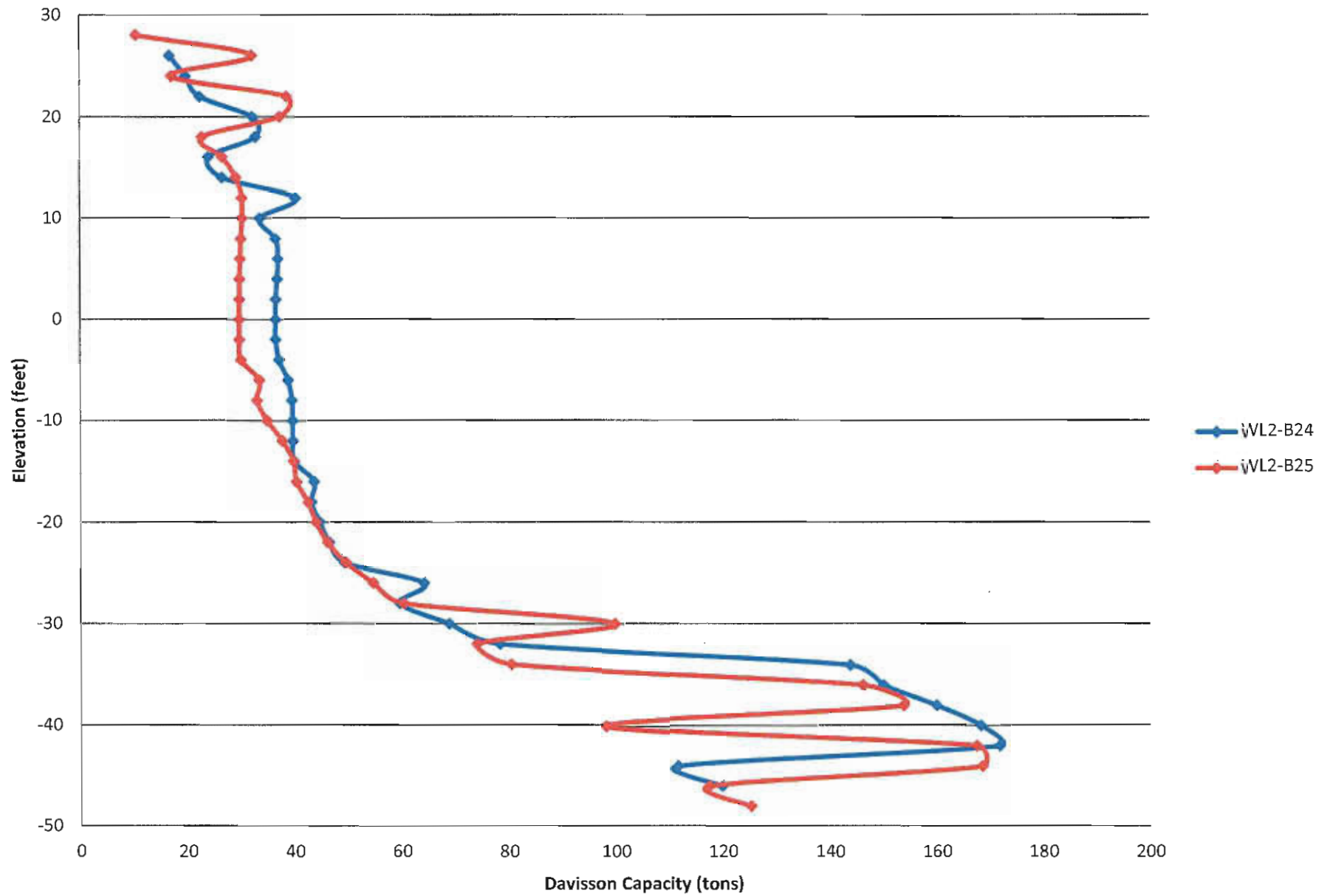
### Bent 14 - 24" PCP



### Bent 14 - 20" Pipe Pile

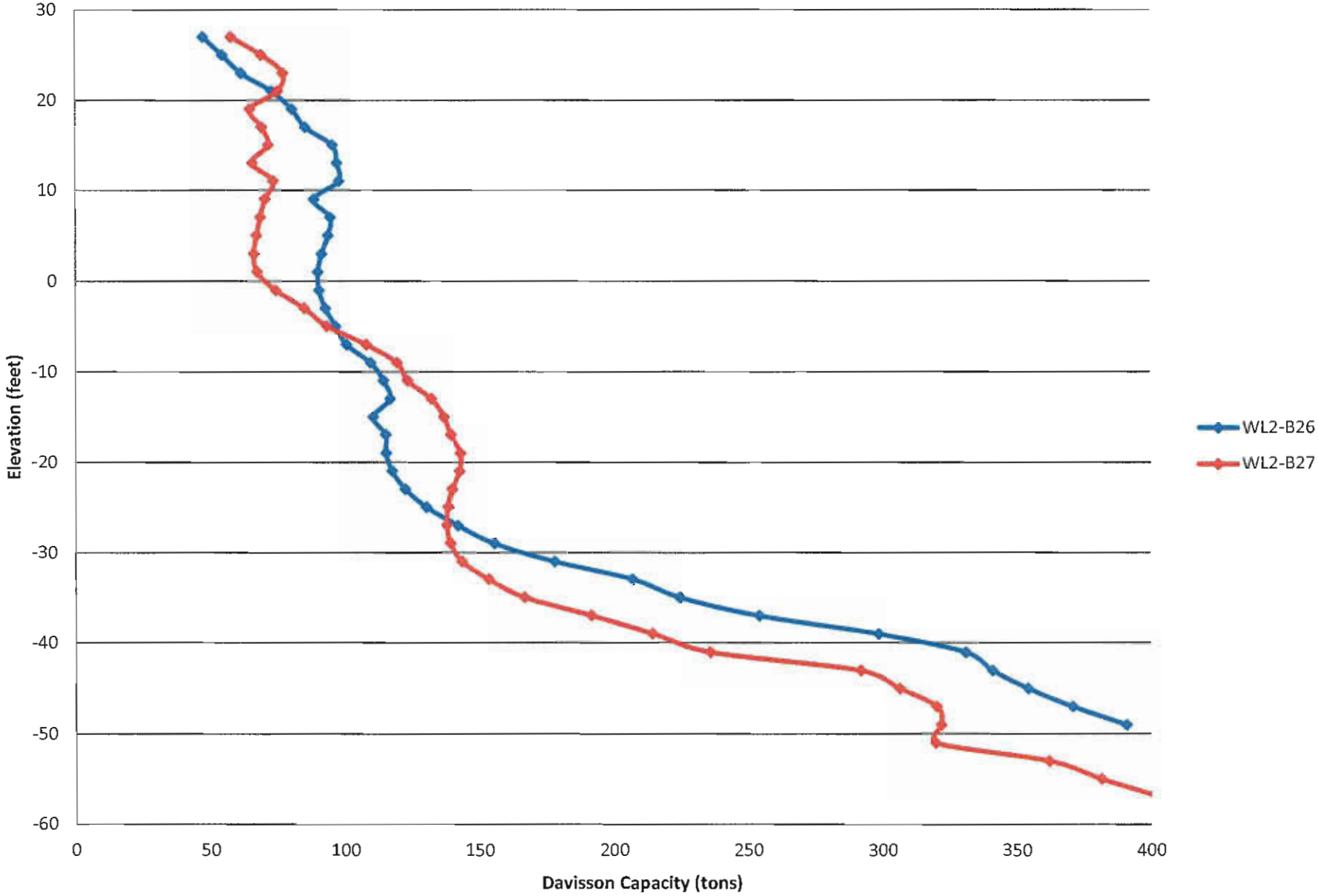


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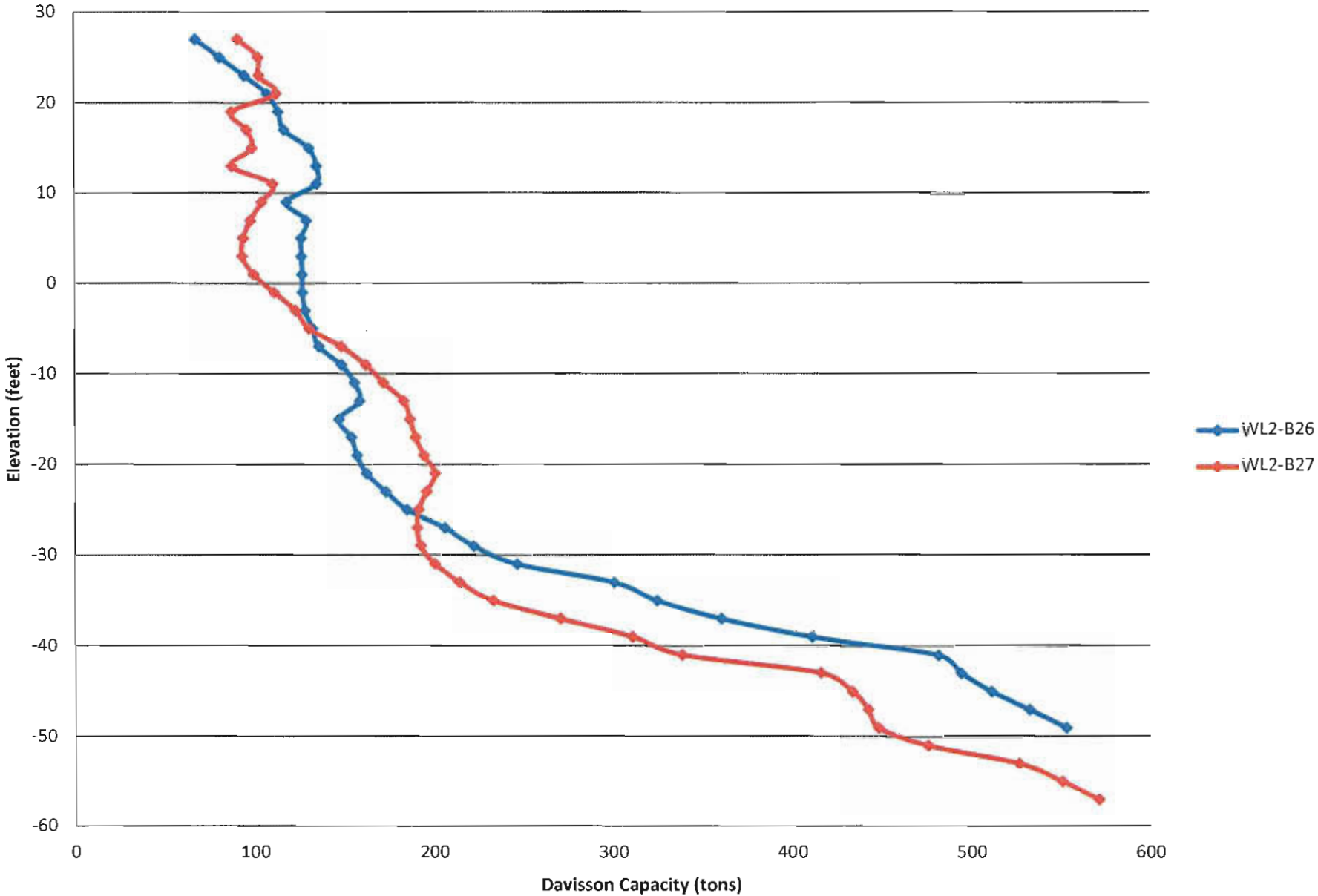




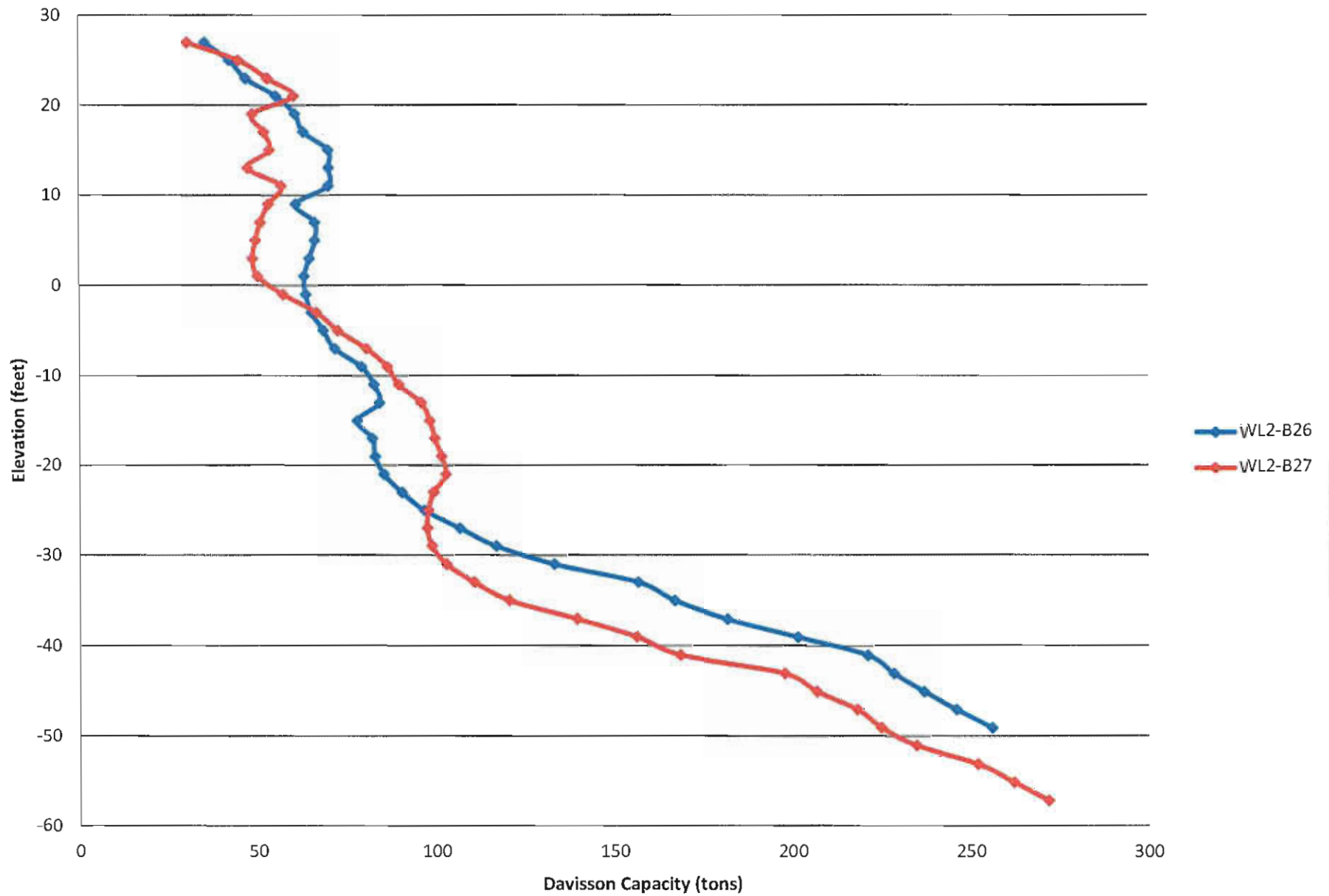
# Bent 15 - 18" PCP



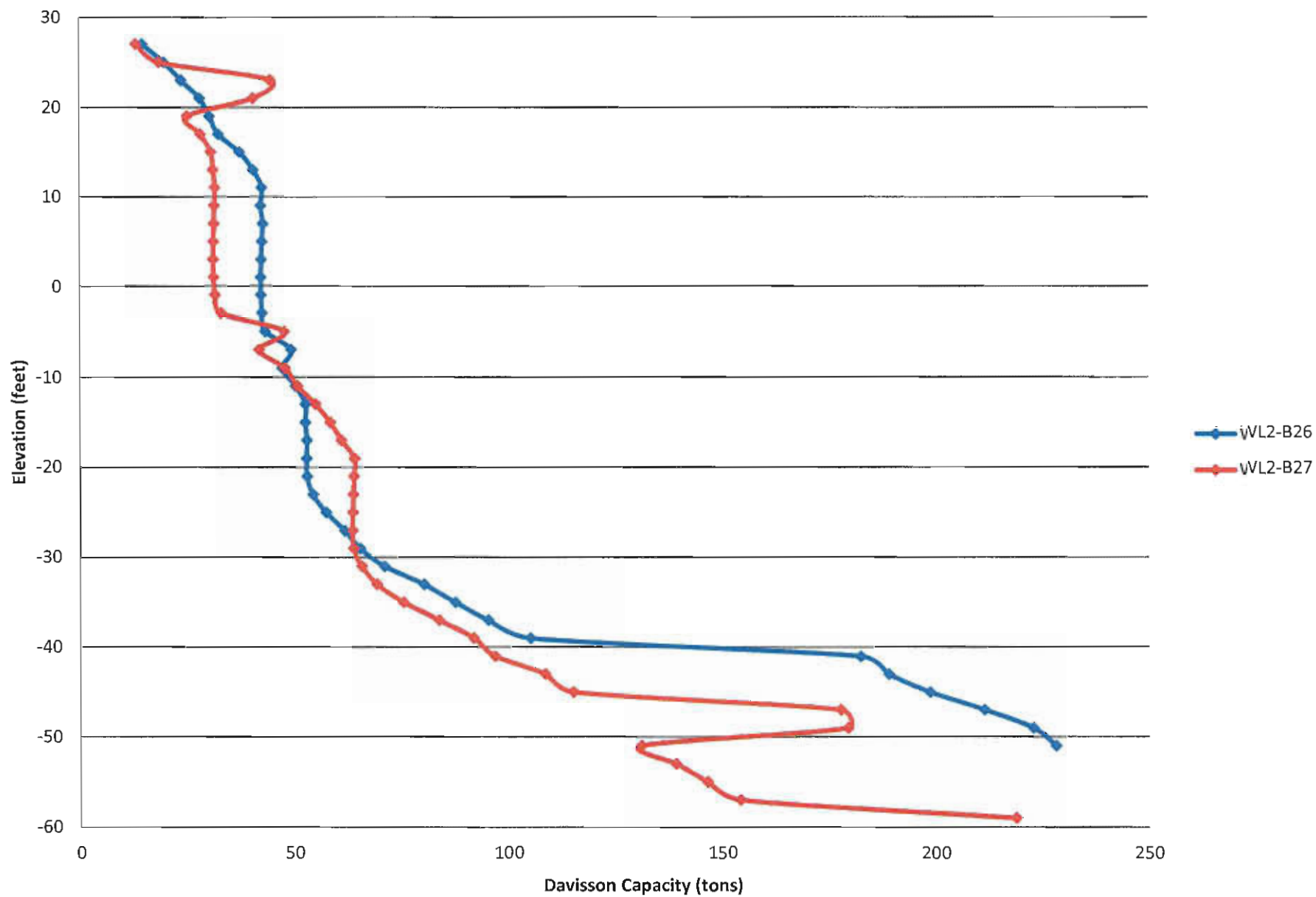
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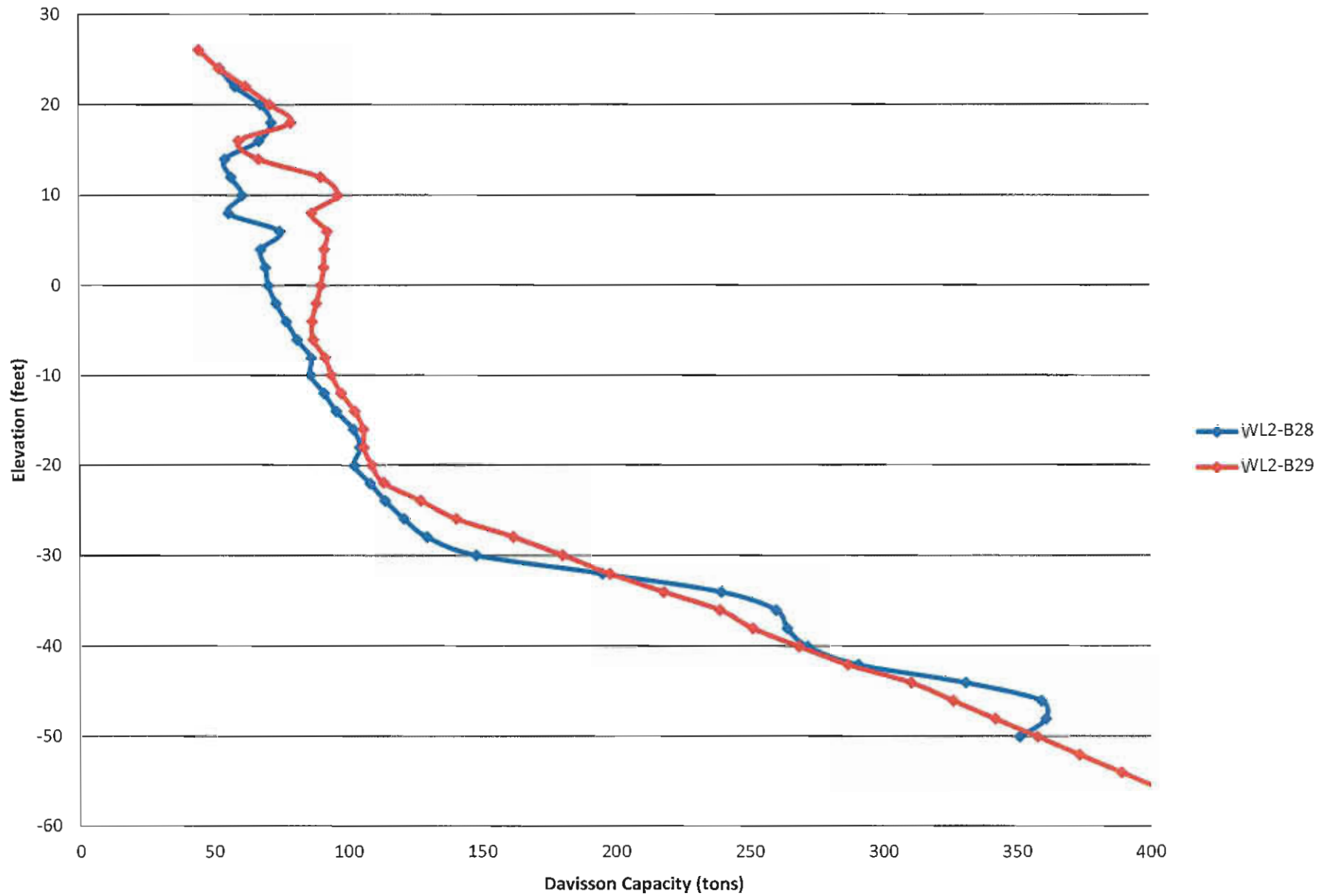
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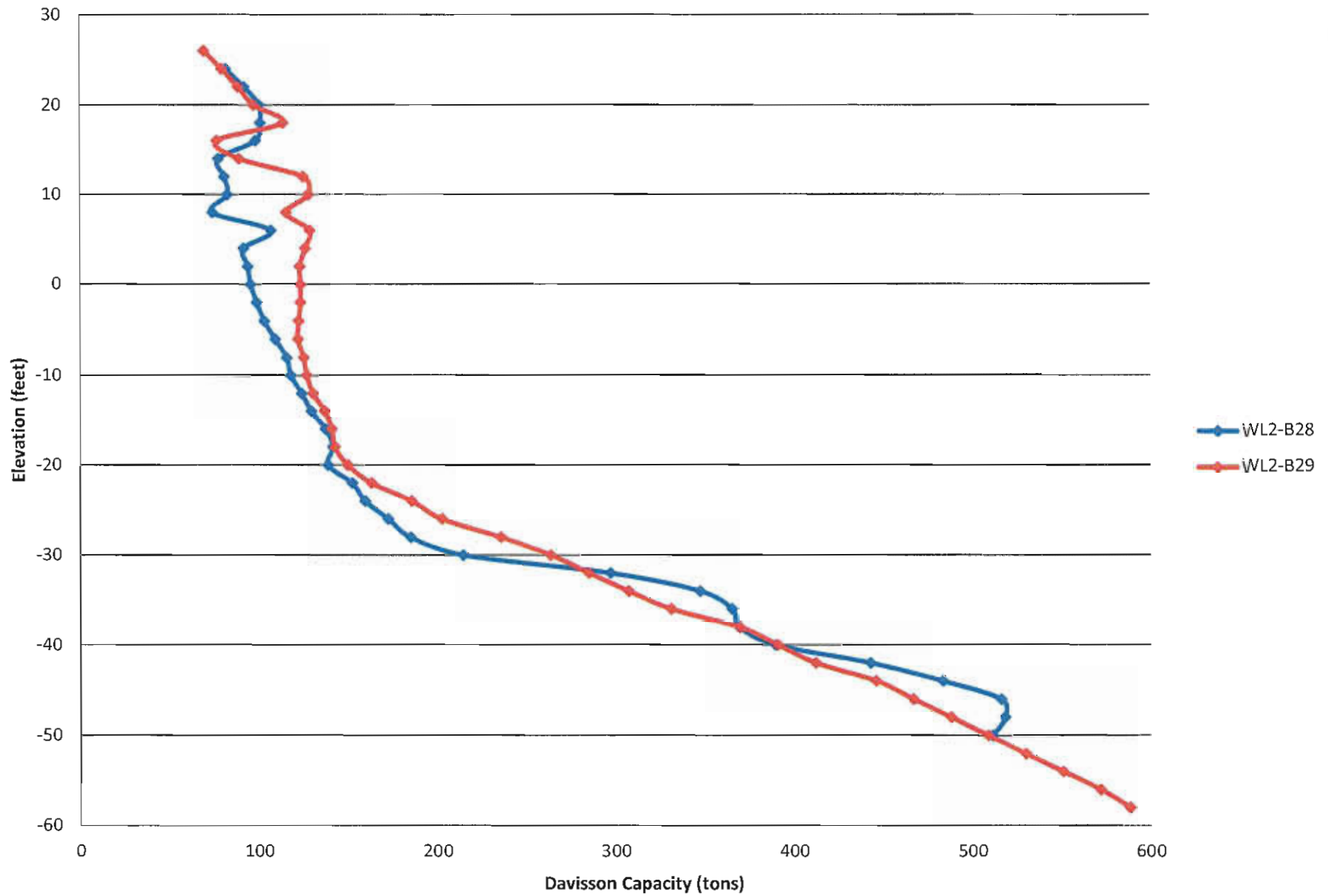
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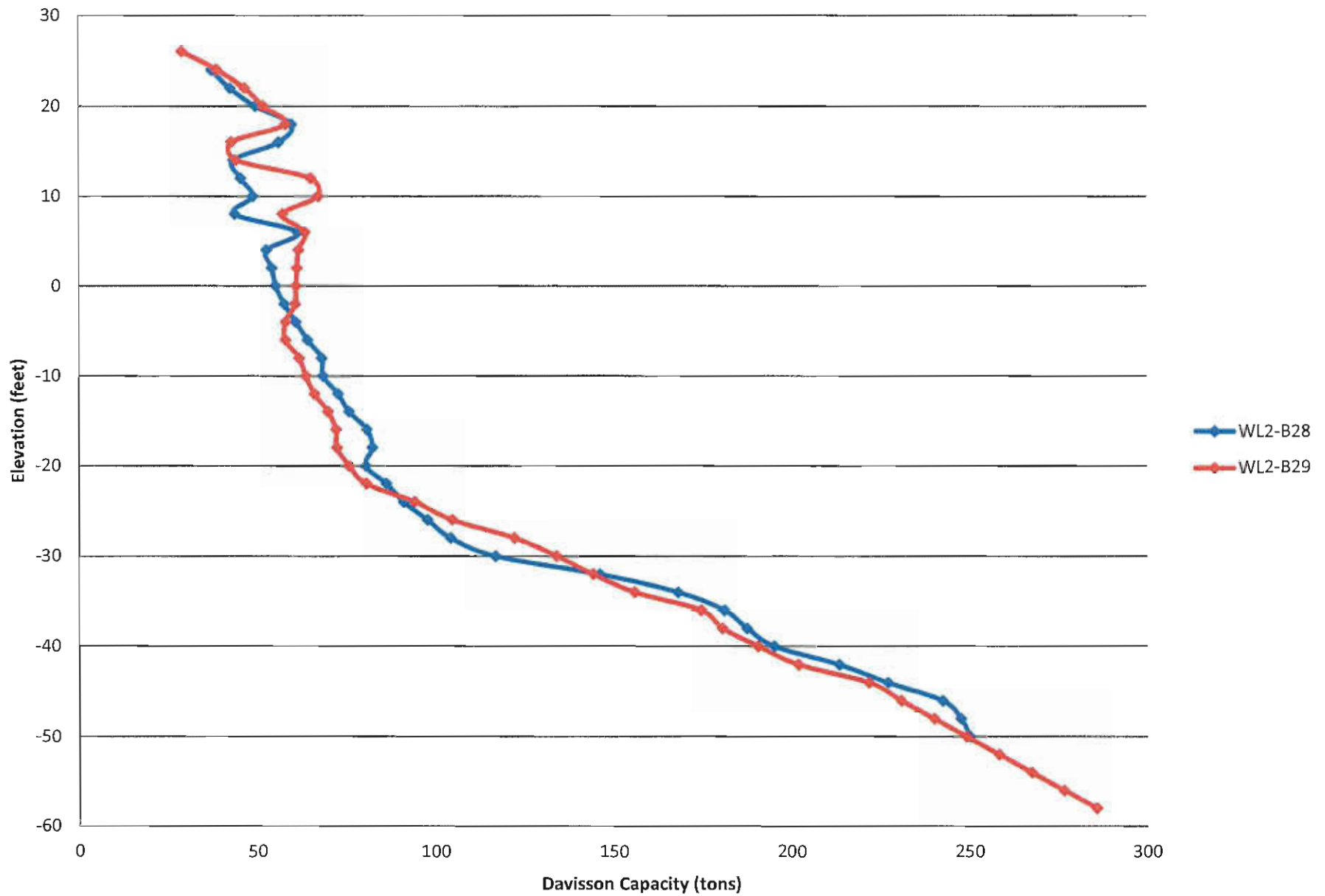
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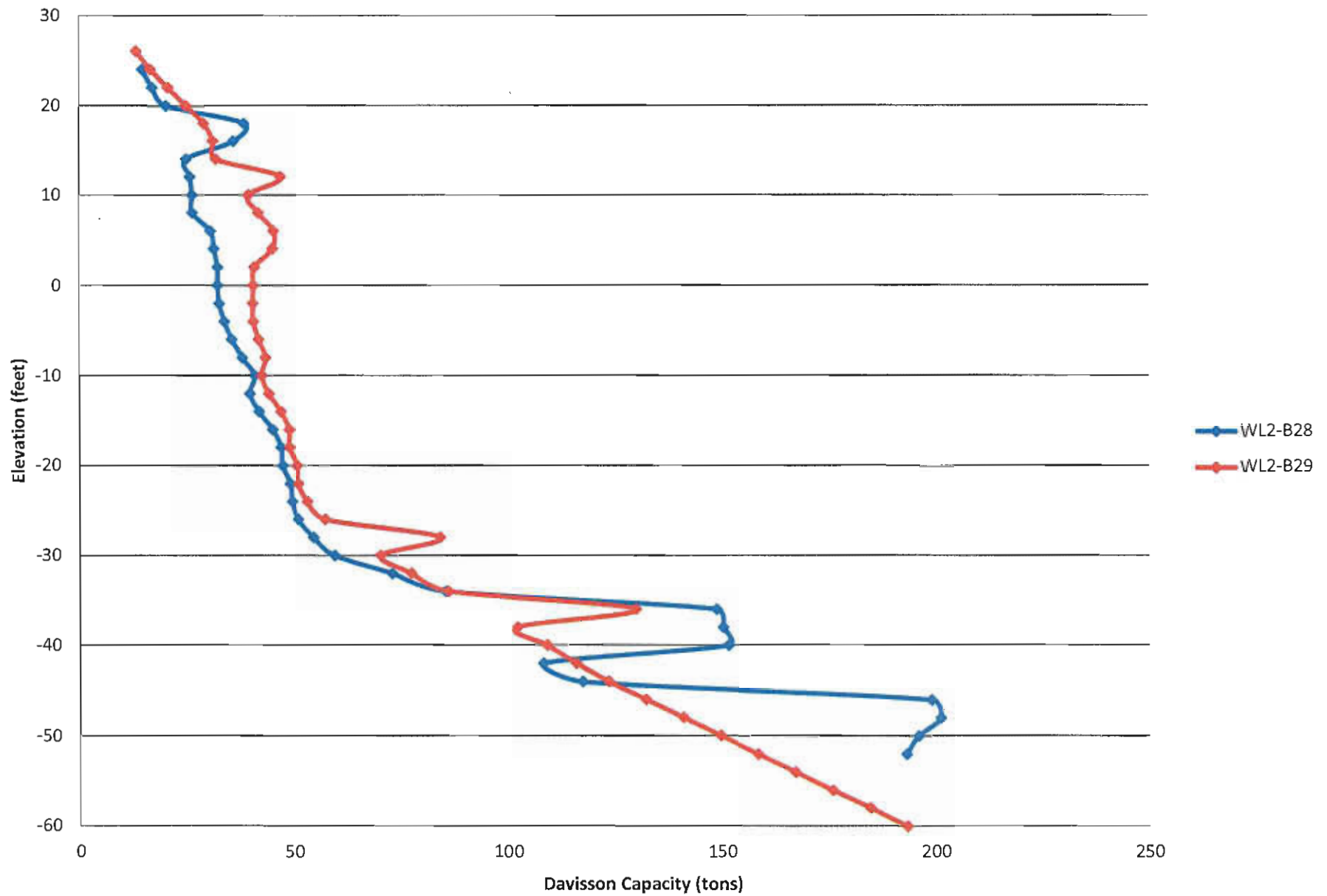
# Bent 16 - 24" PCP



# Bent 16 - 20" Pipe Pile

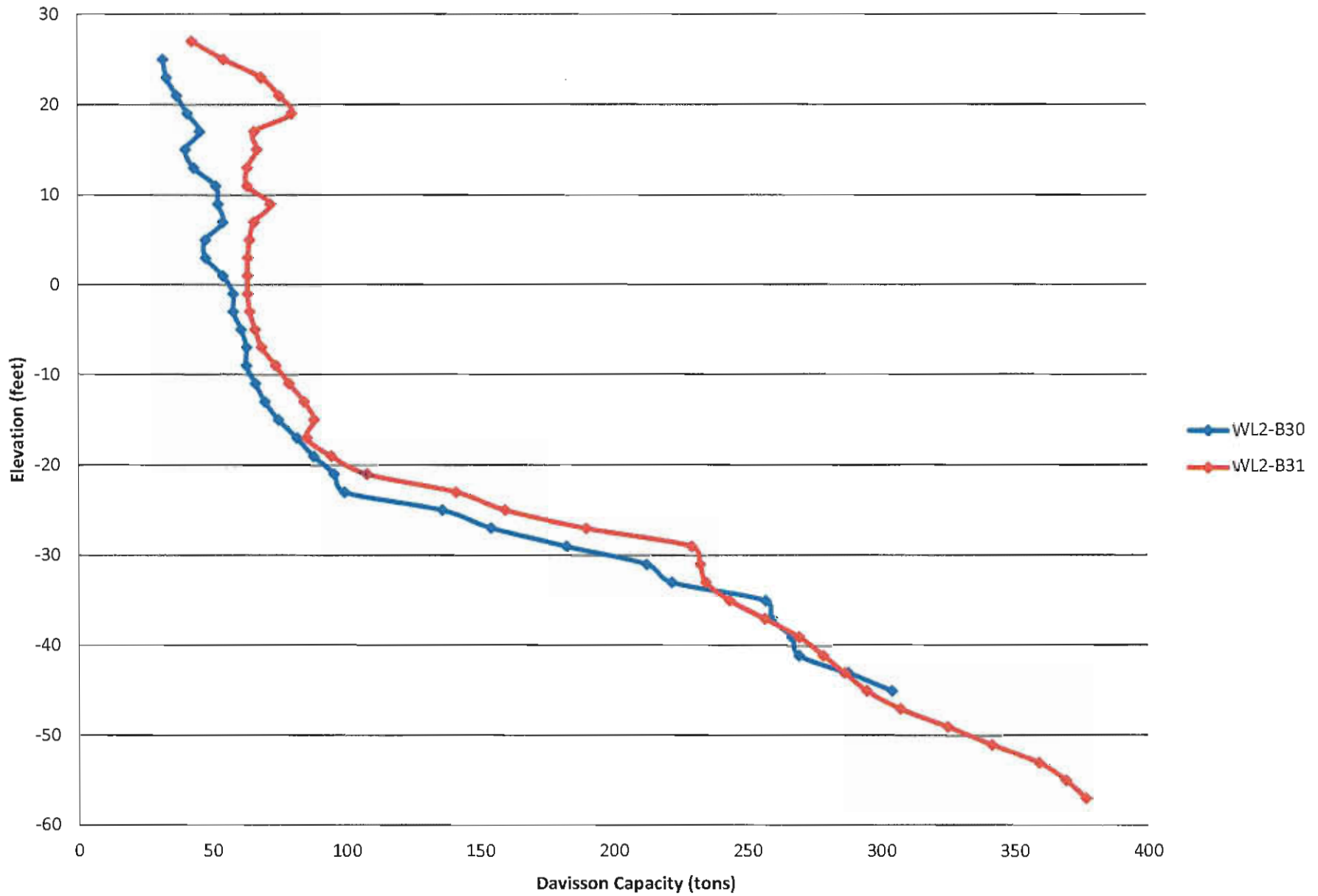


# Bent 16 - HP14x89

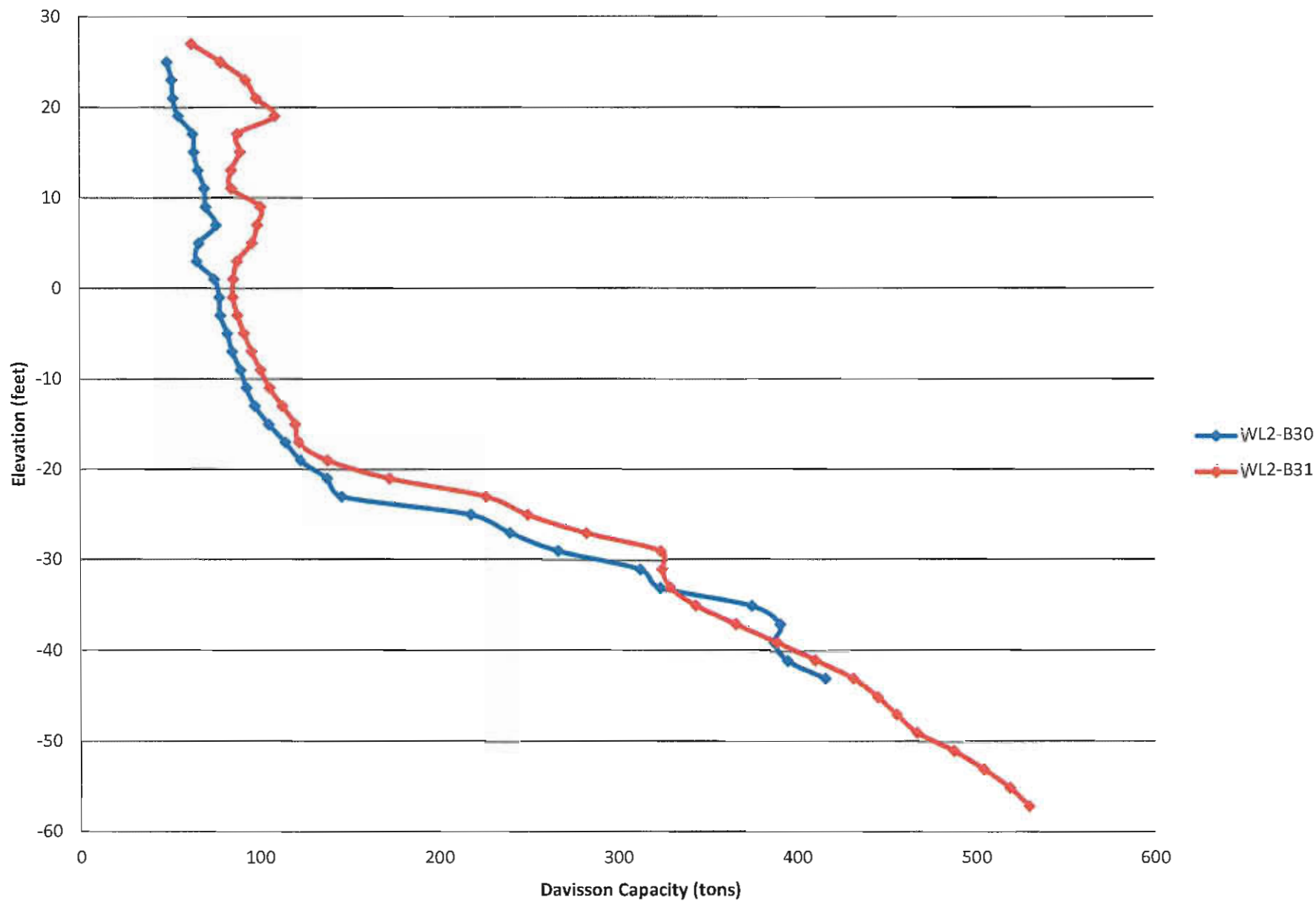




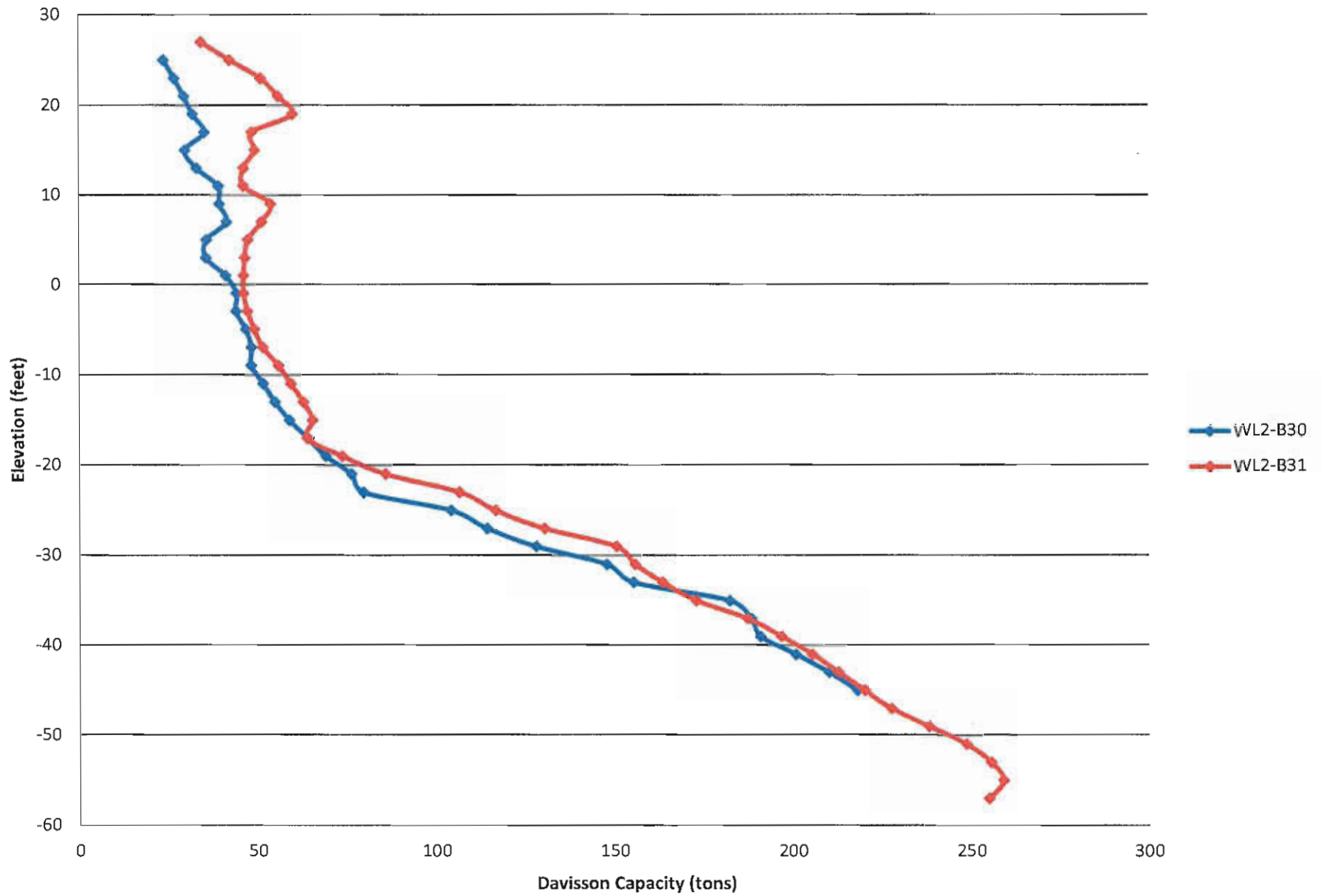
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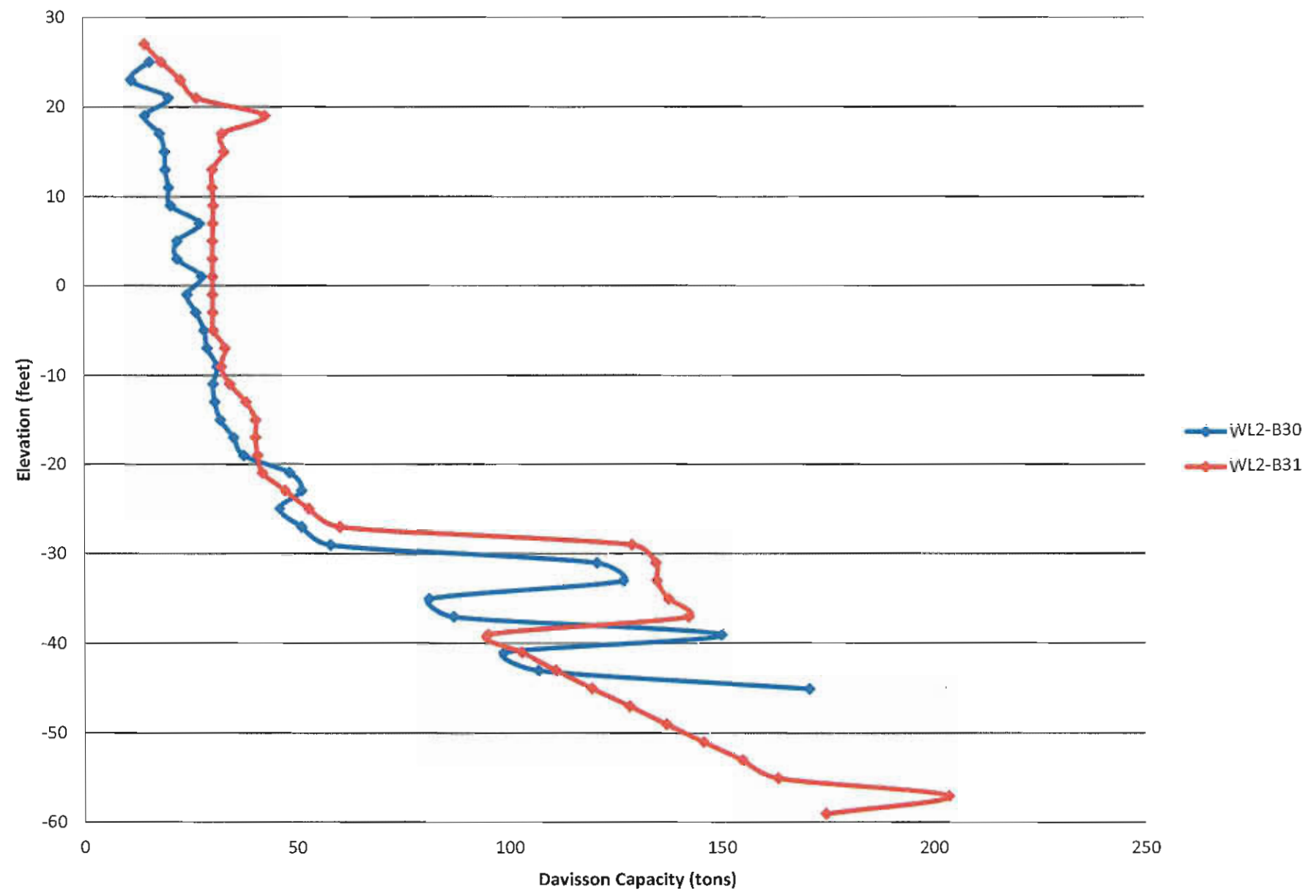
# Bent 17 - 24" PCP



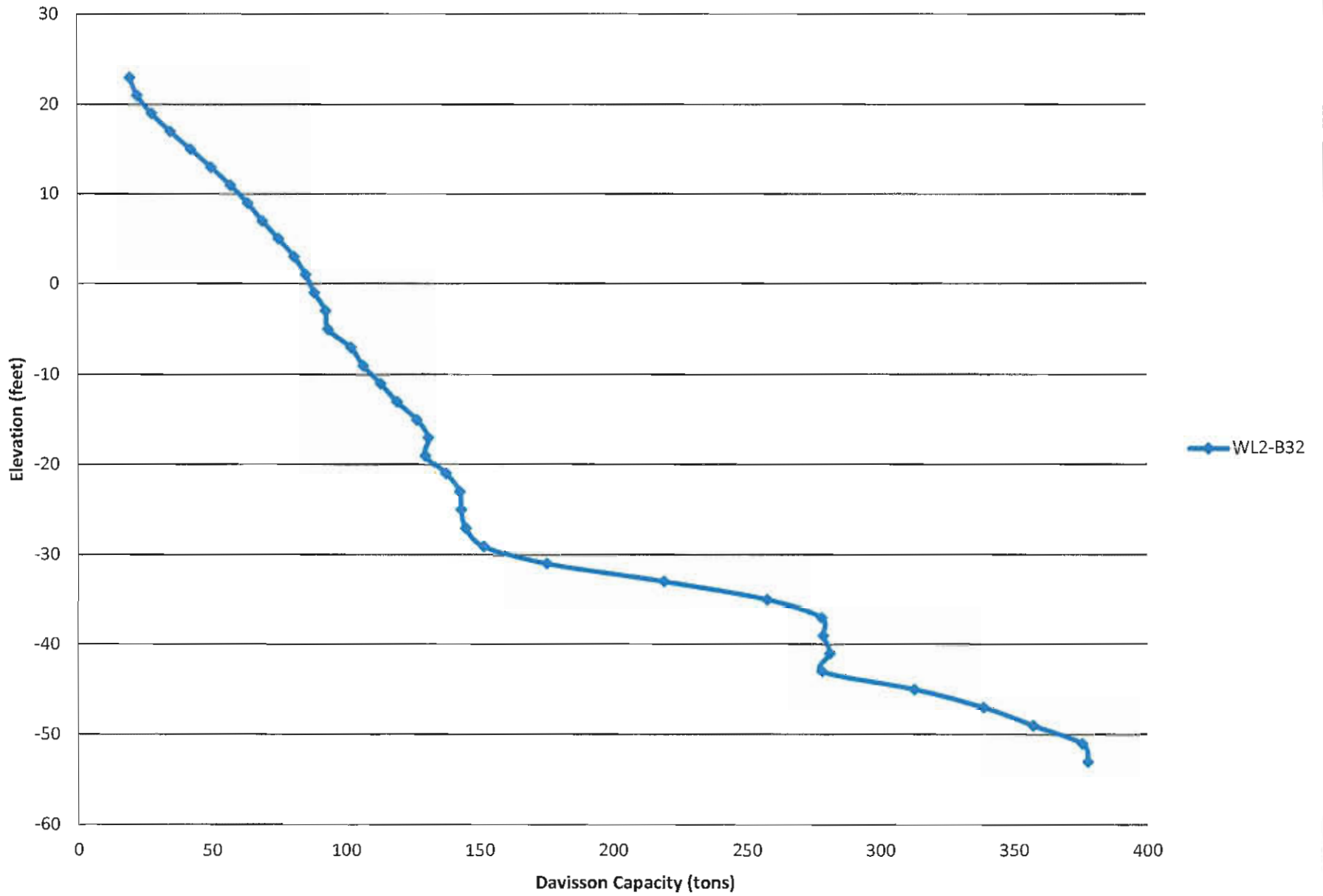
# Bent 17 - 20" Pipe Pile



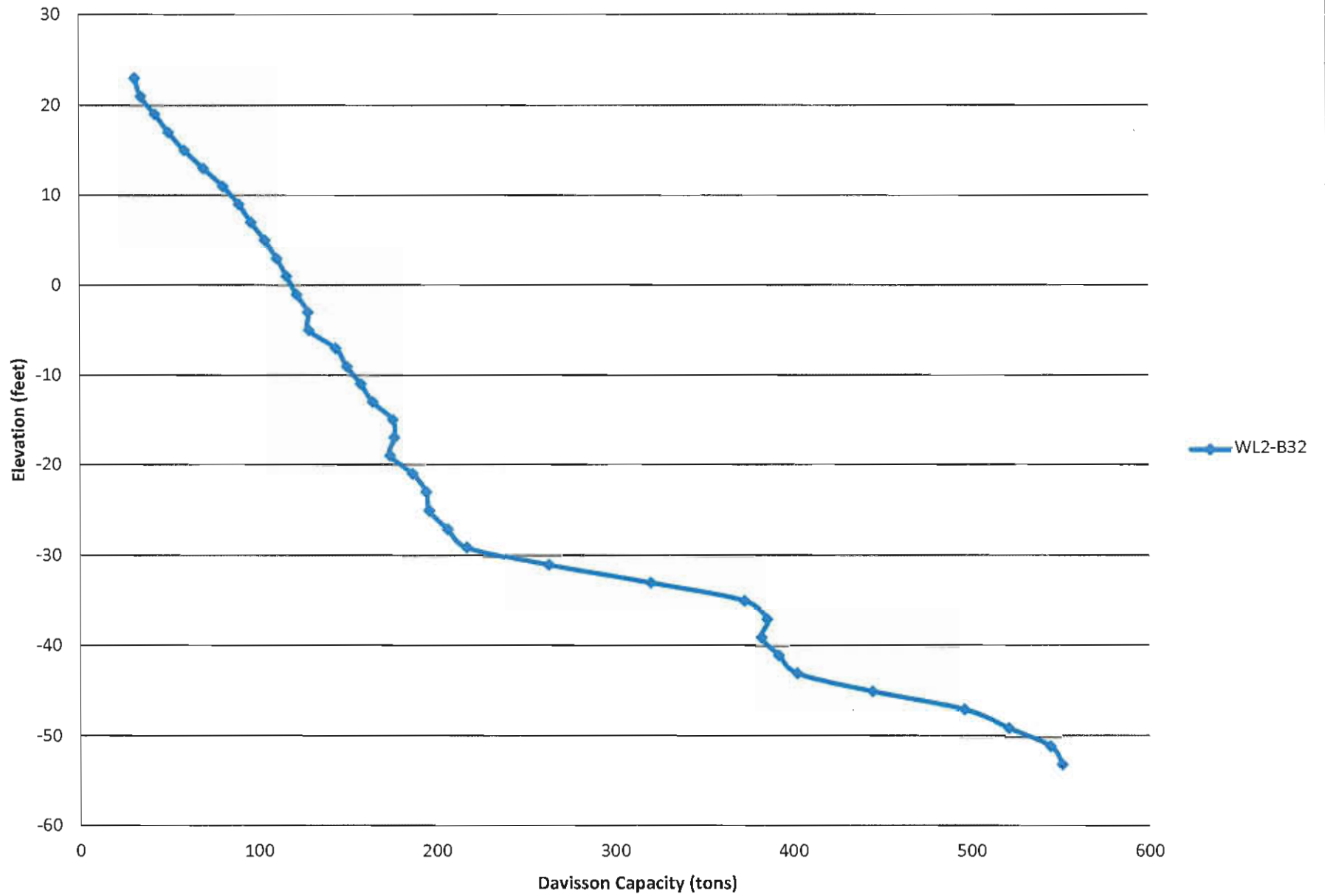
# Bent 17 - HP14x89



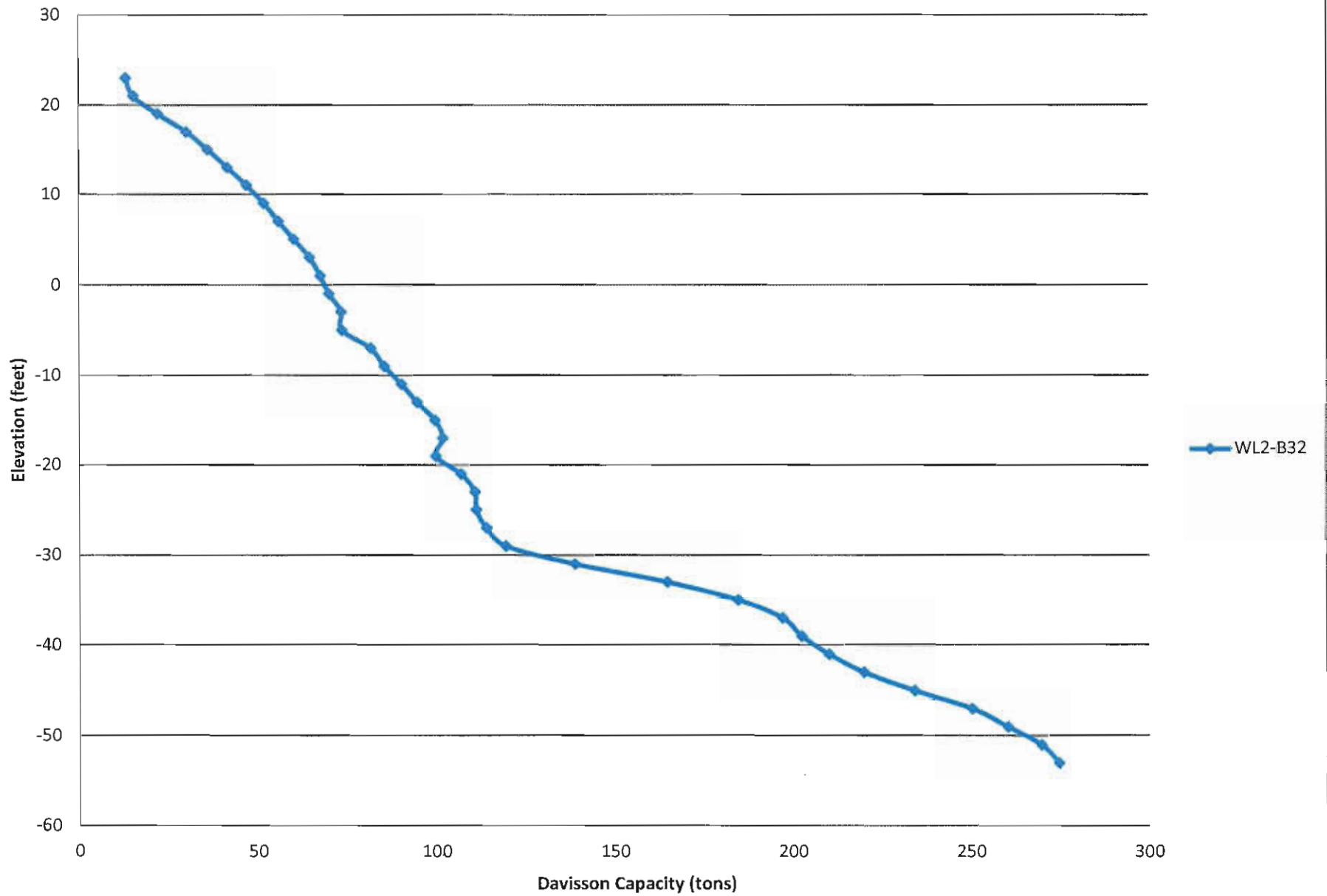
# Bent 18 - 18" PCP



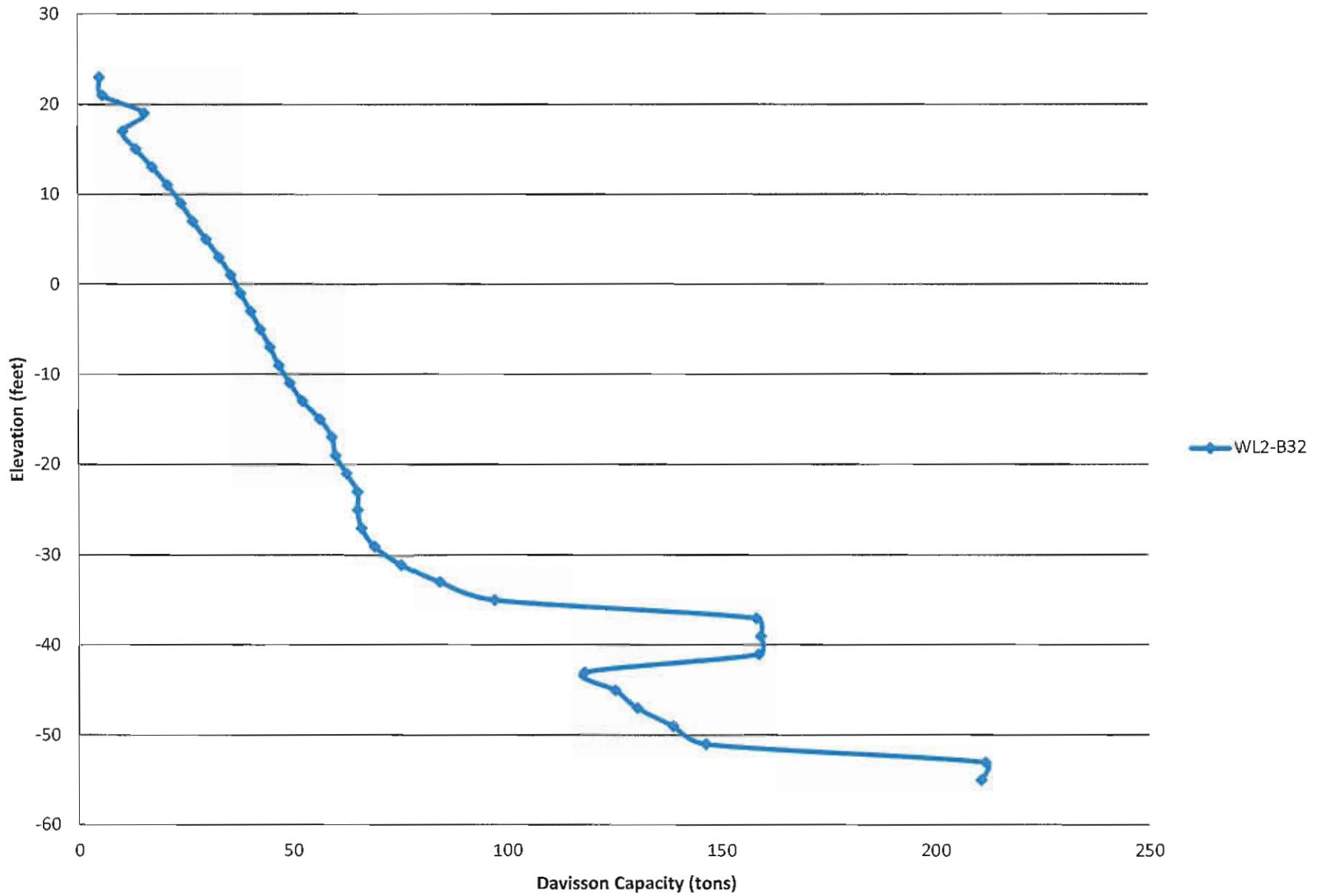
# Bent 18 - 24" PCP



# Bent 18 - 20" Pipe Pile

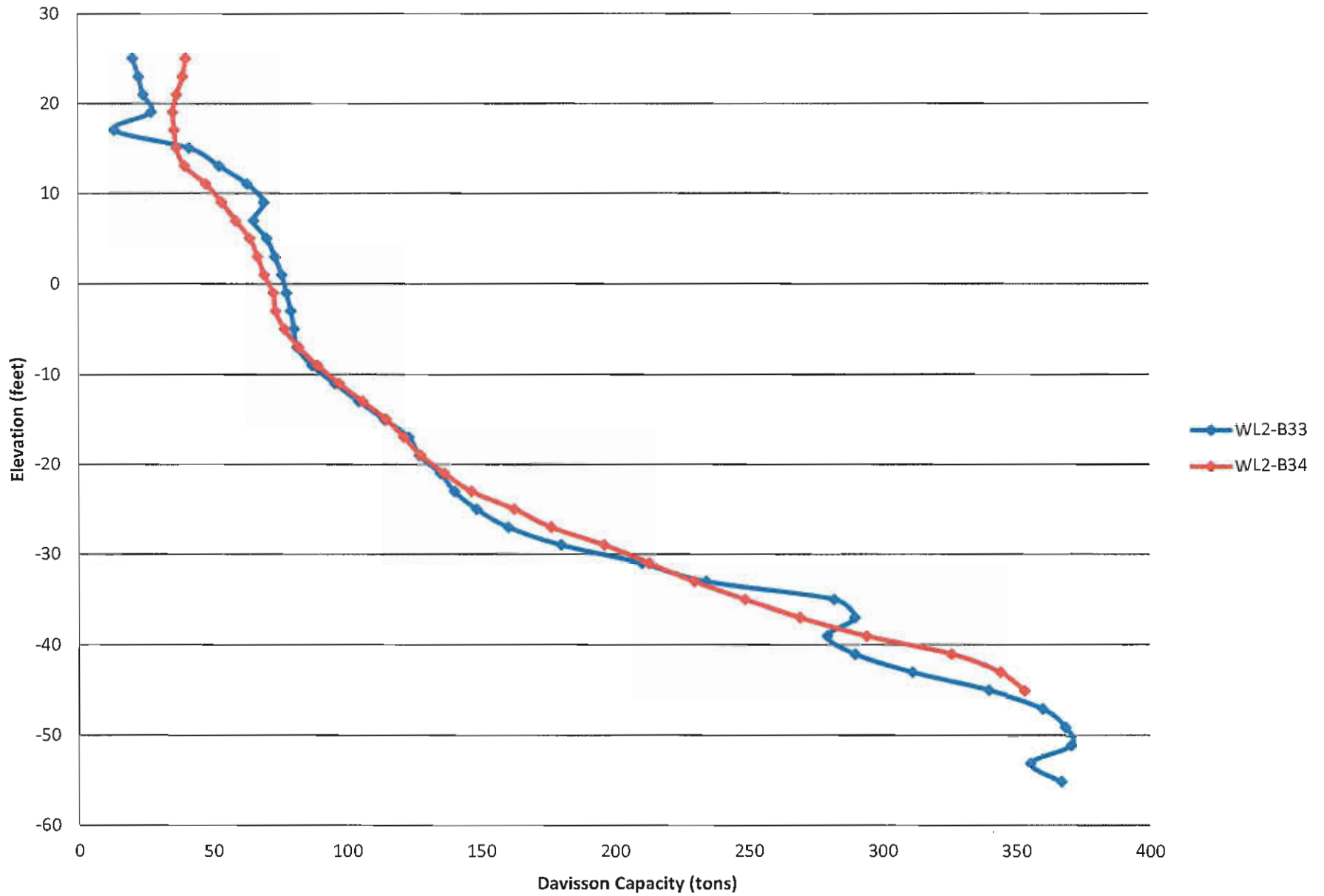


# Bent 18 - HP14x89

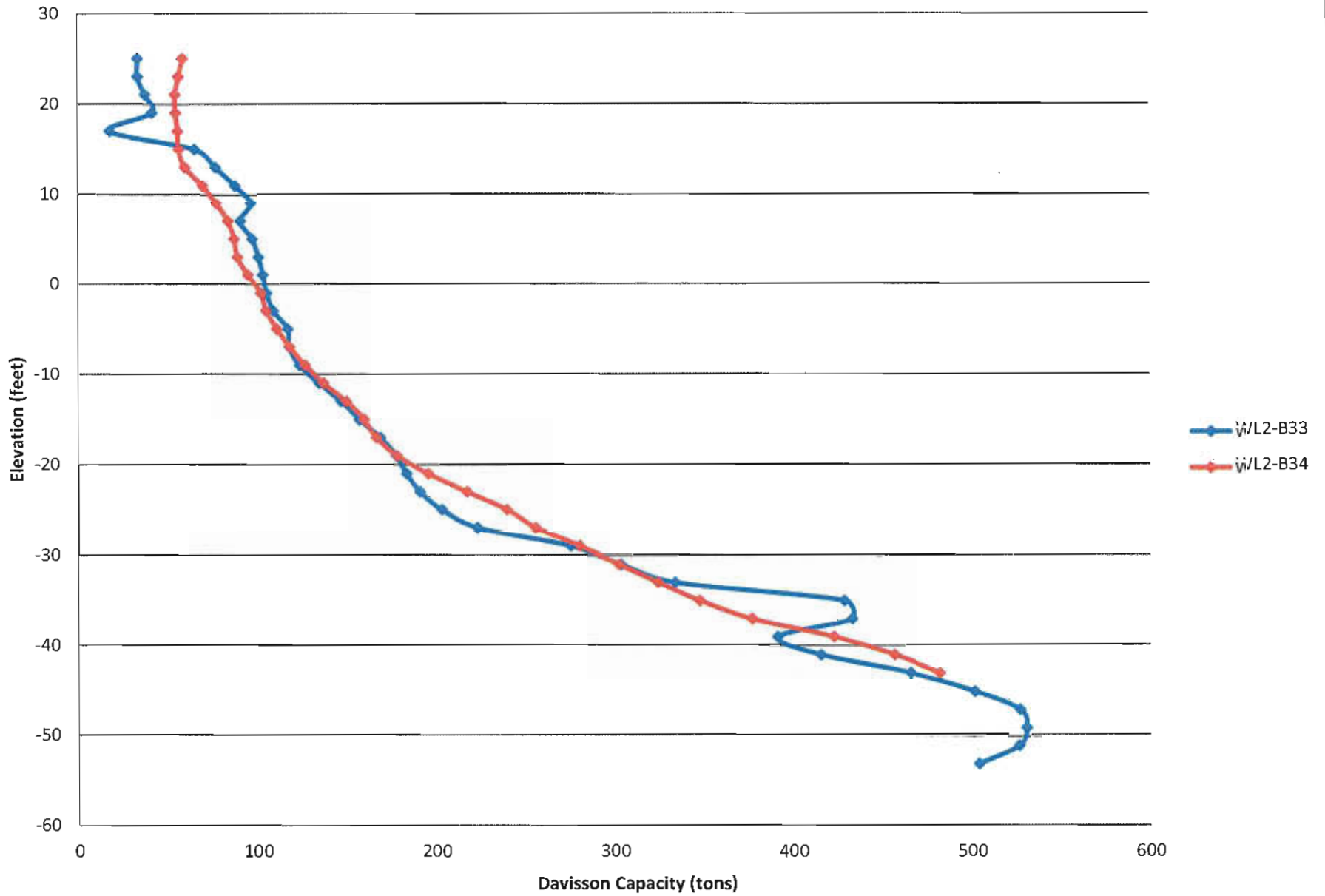




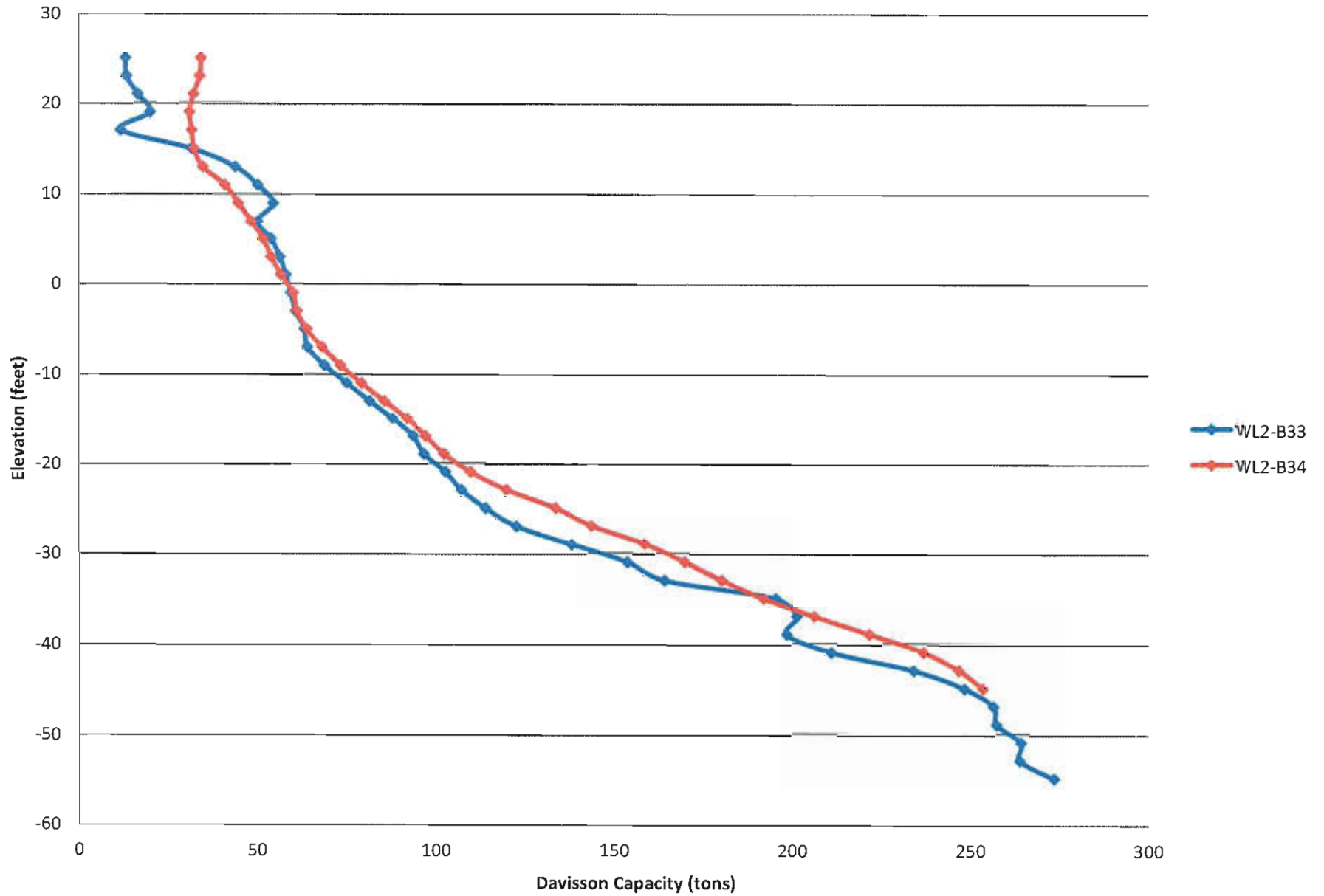
# Bent 19 - 18" PCP



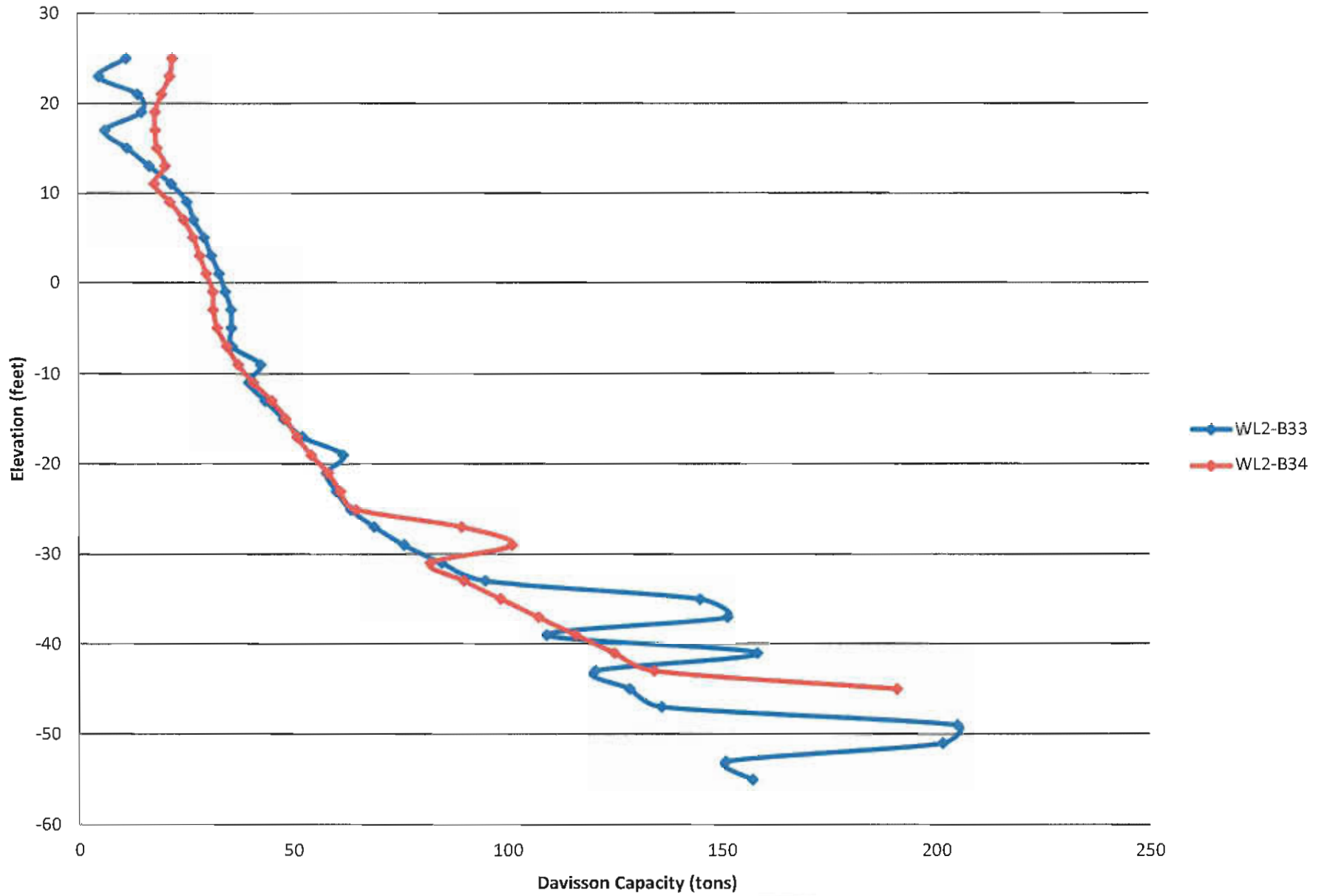
# Bent 19 - 24" PCP



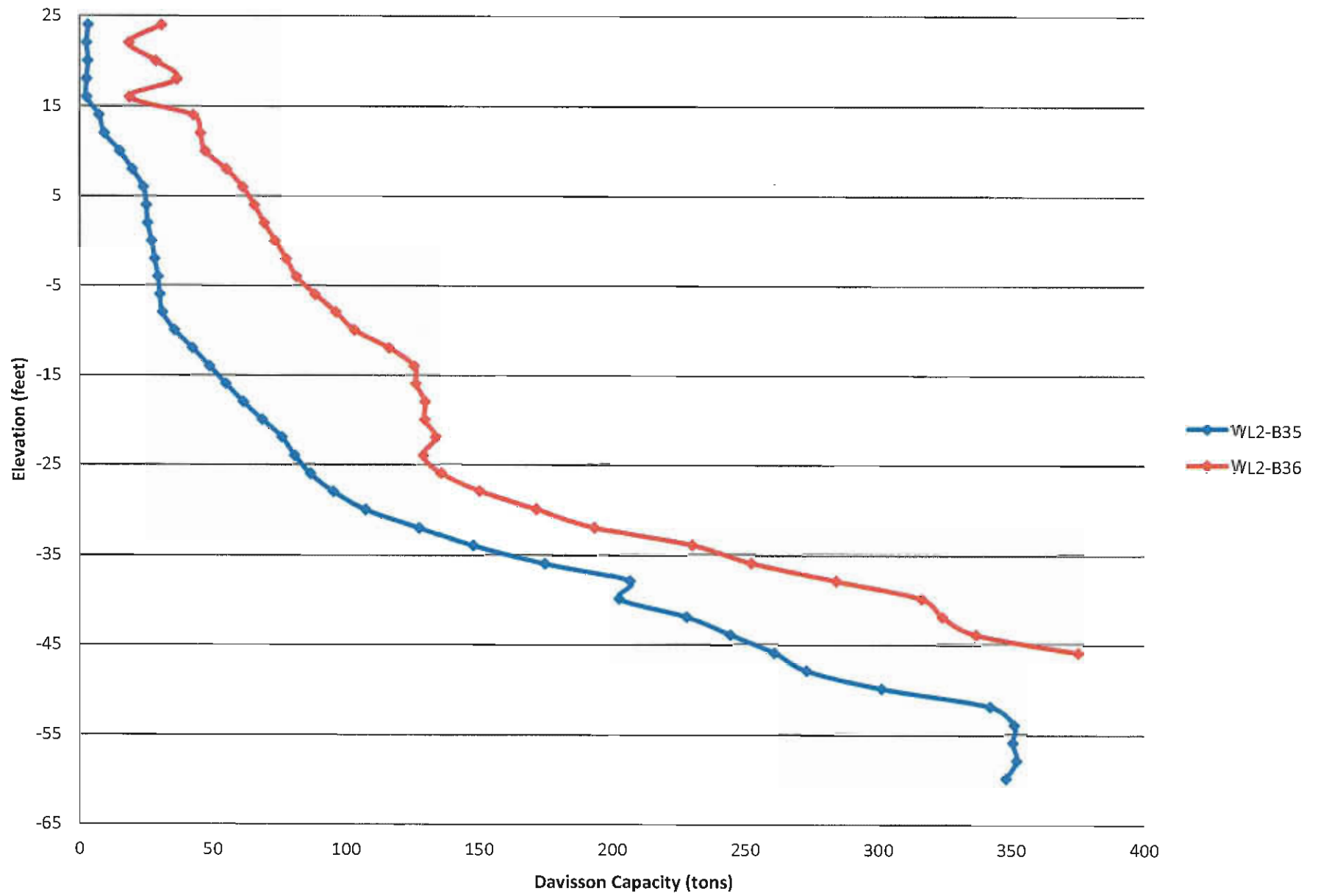
### Bent 19 - 20" Pipe Pile



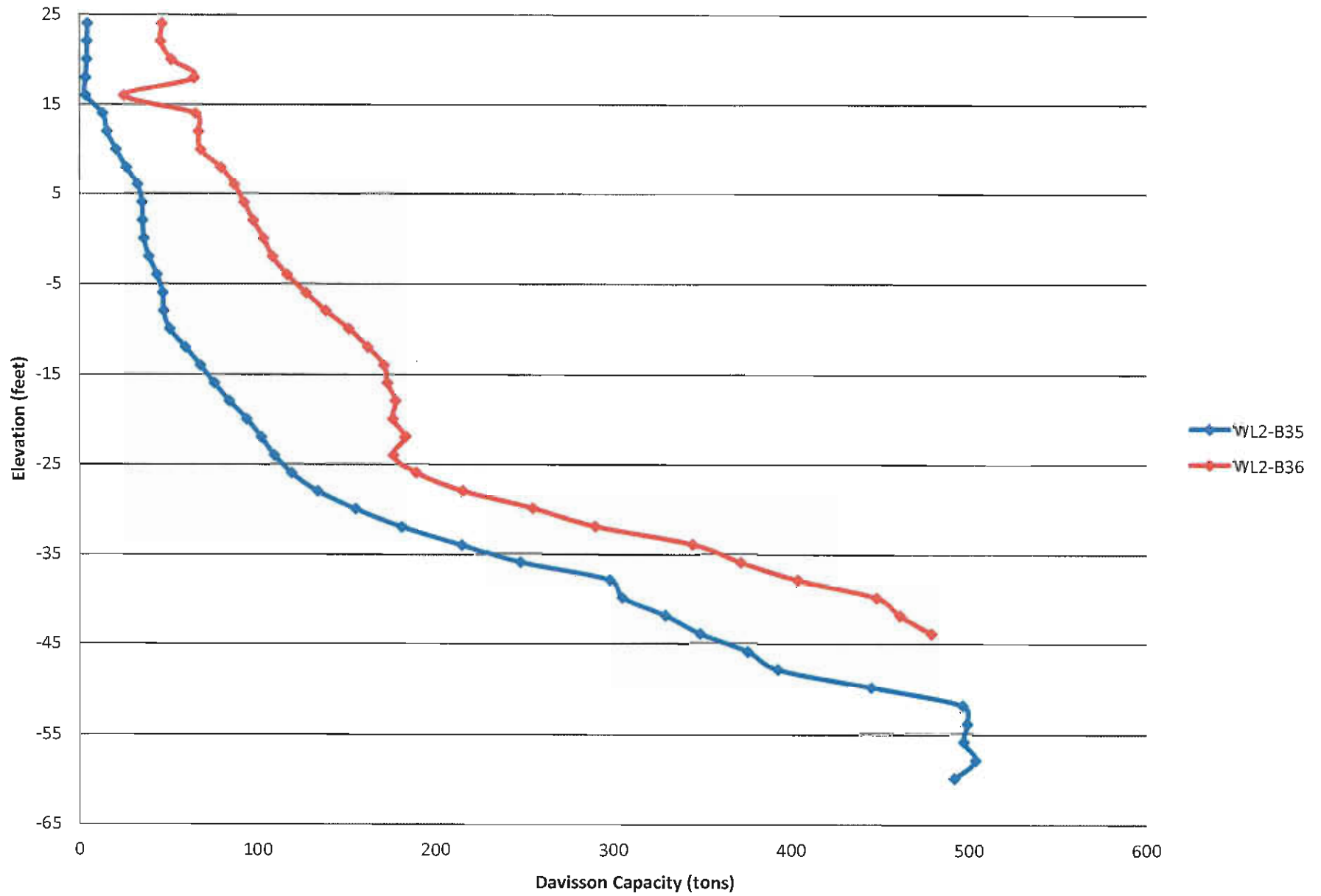
# Bent 19 - HP14x89



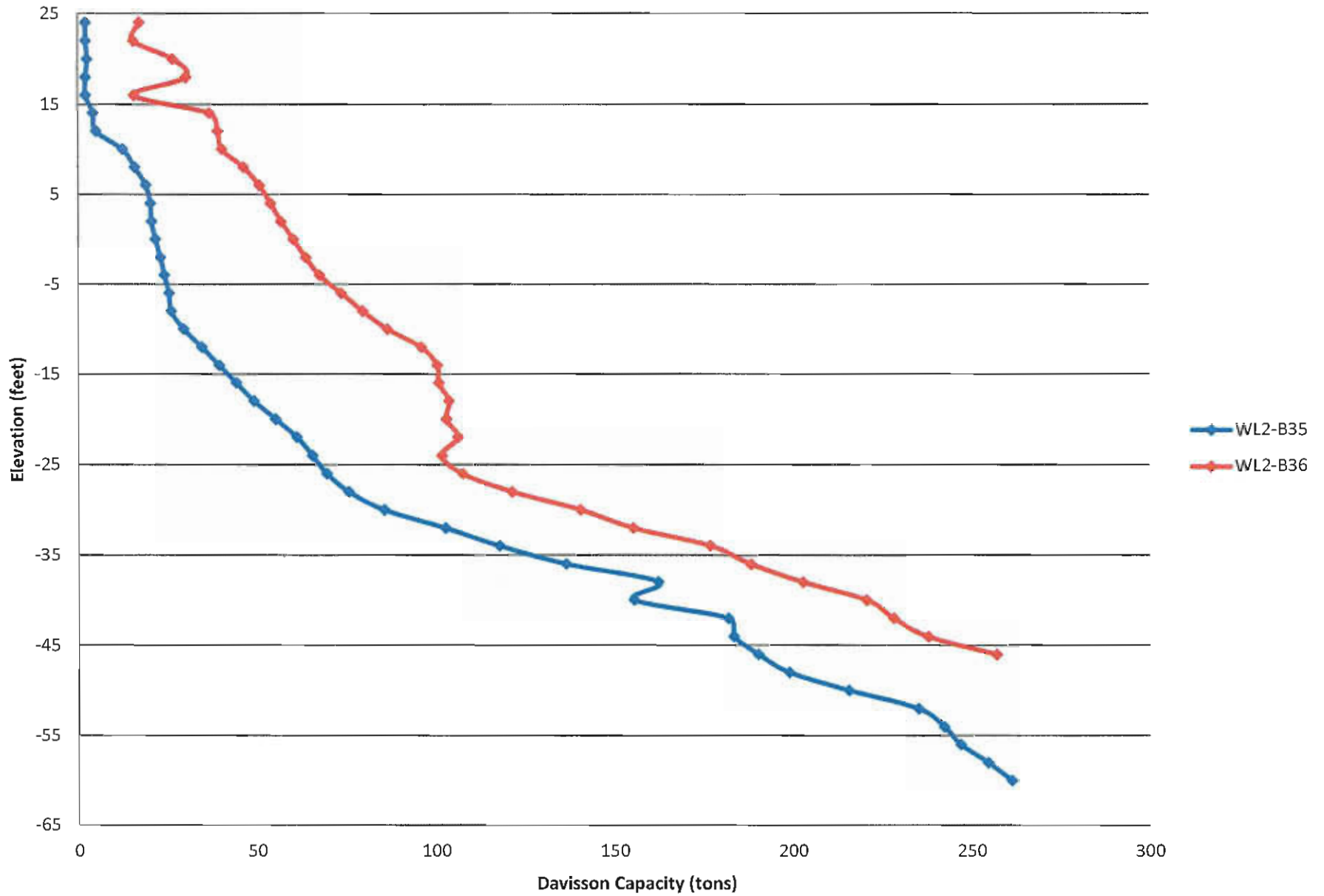
# Bent 20 - 18" PCP



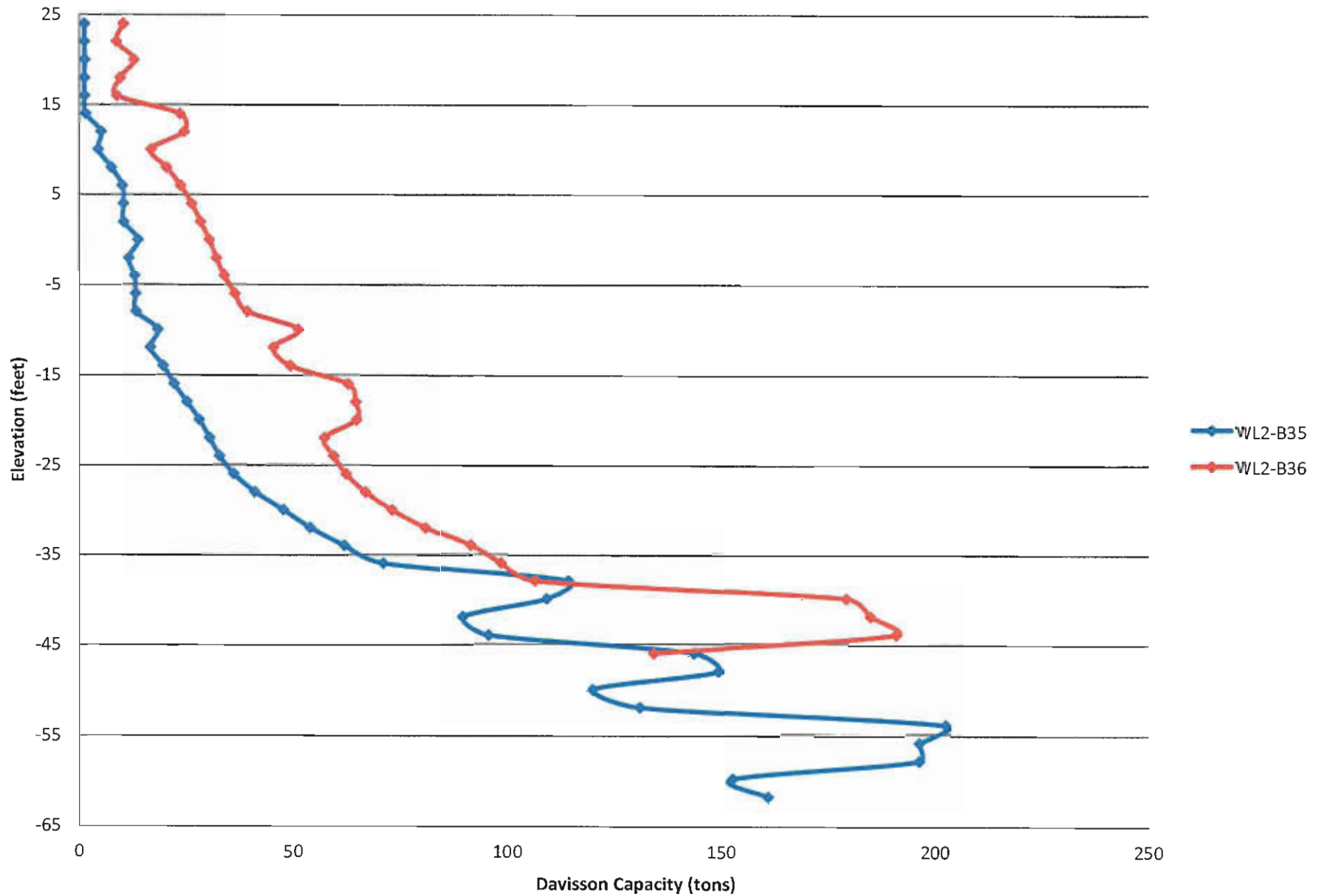
# Bent 20 - 24" PCP



# Bent 20 - 20" Pipe Pile

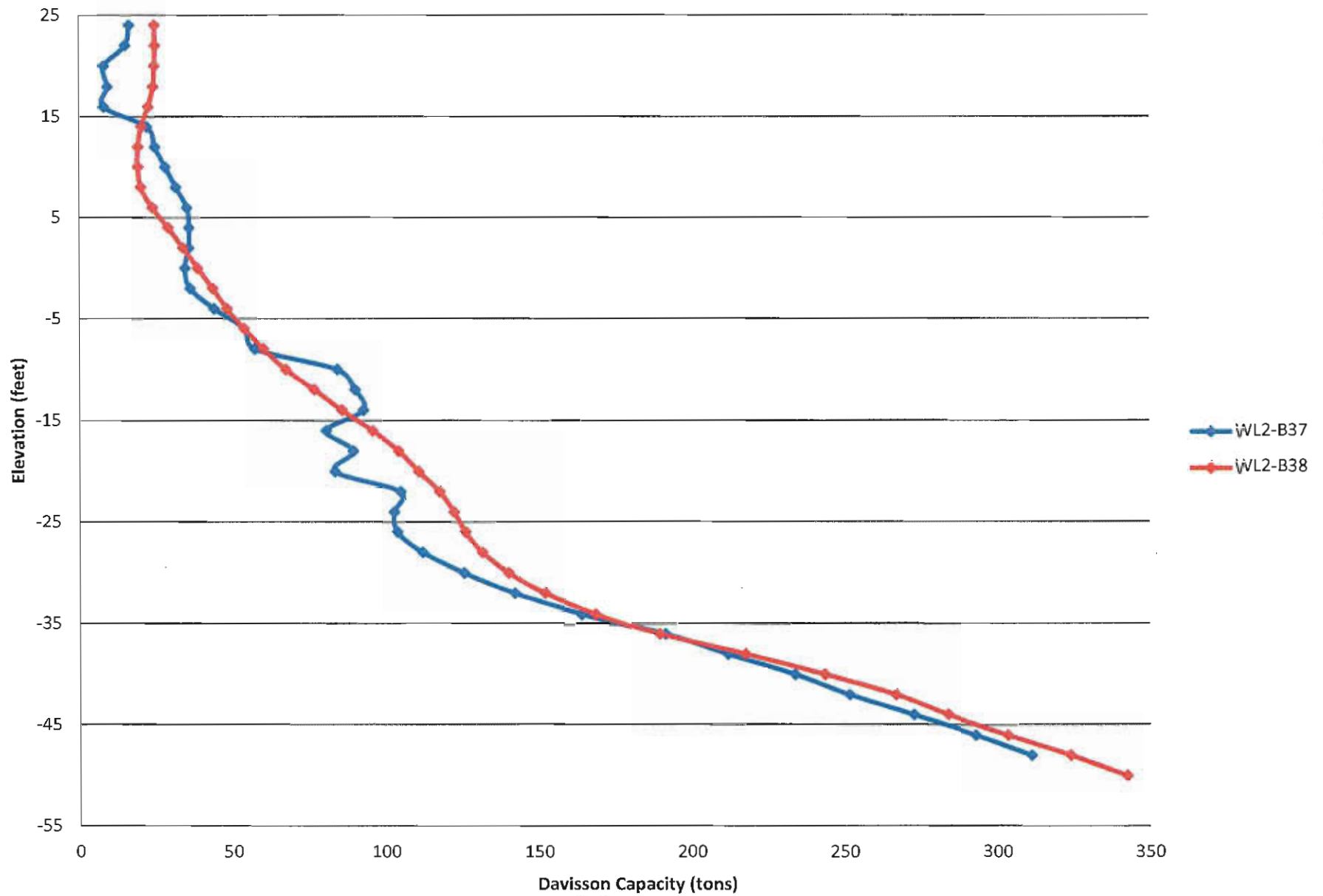


# Bent 20 - HP14x89

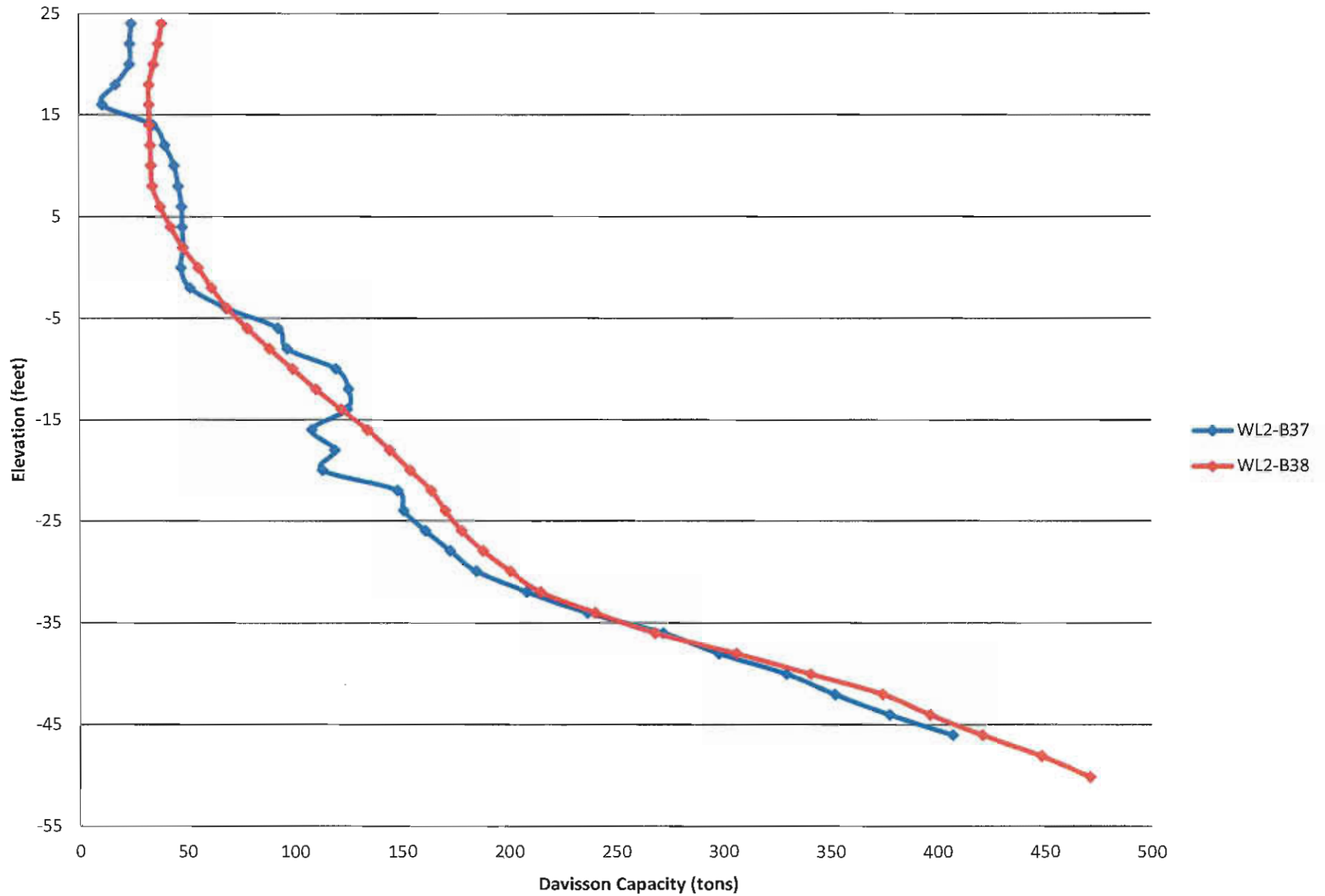




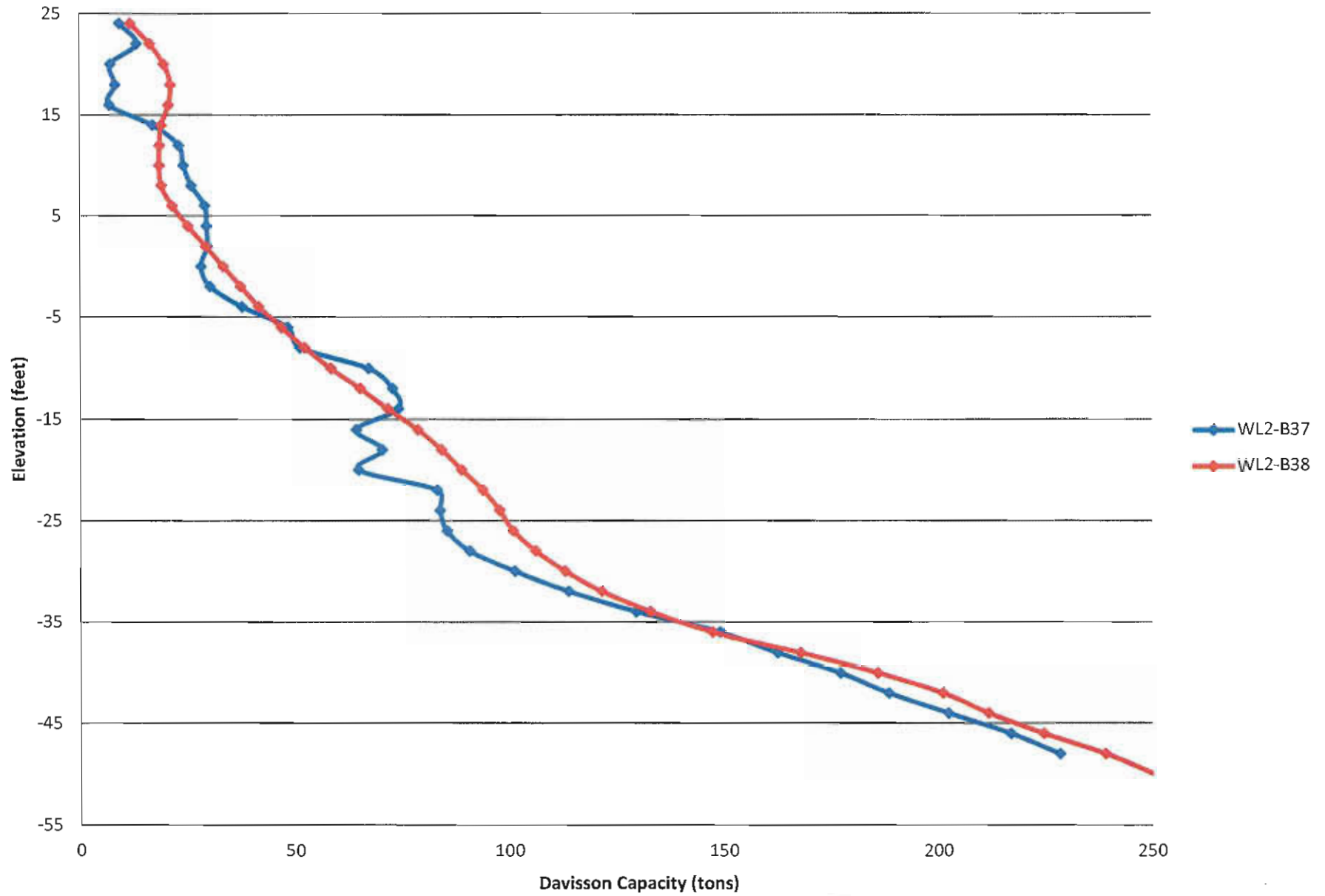
# Bent 21 - 18" PCP



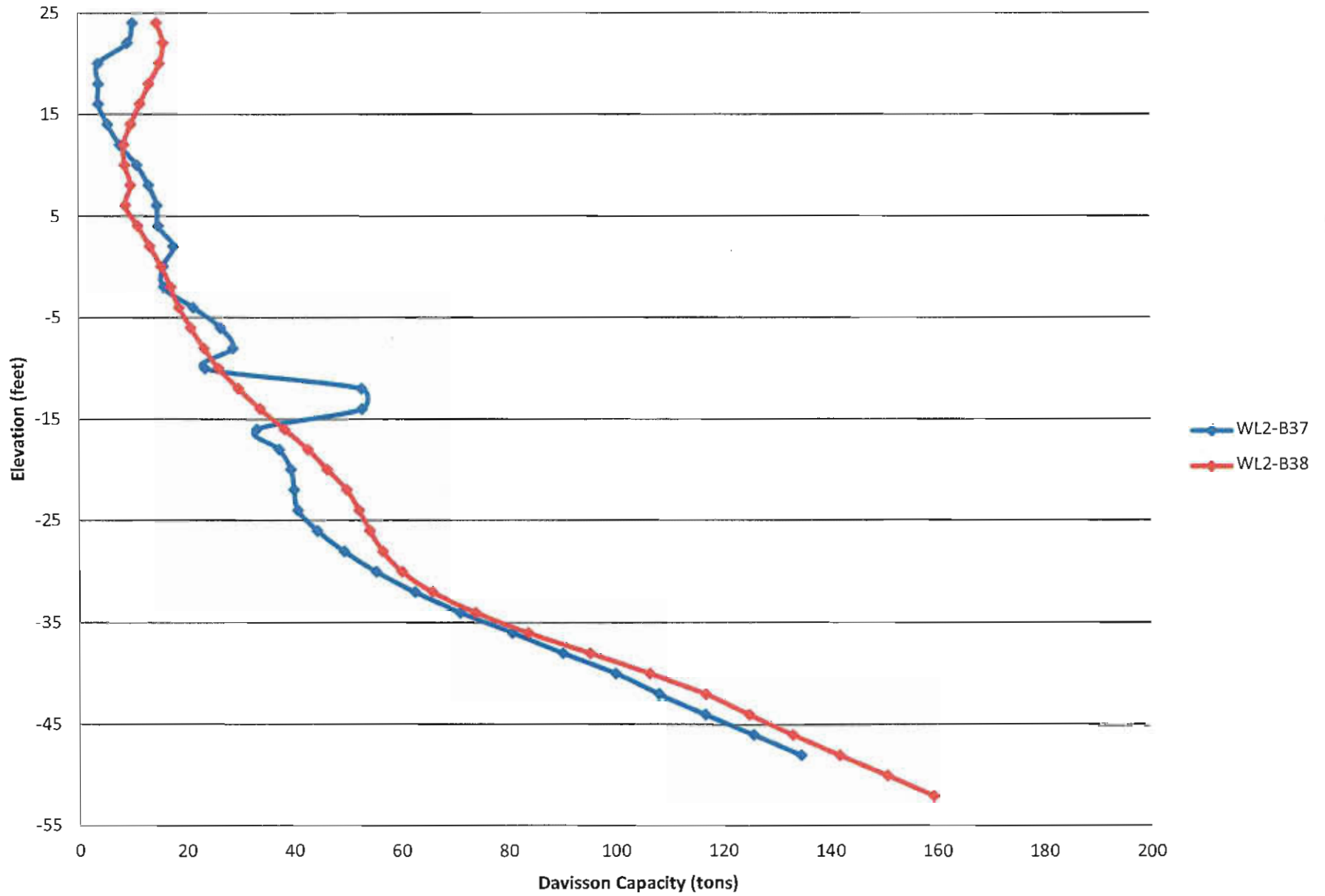
# Bent 21 - 24" PCP



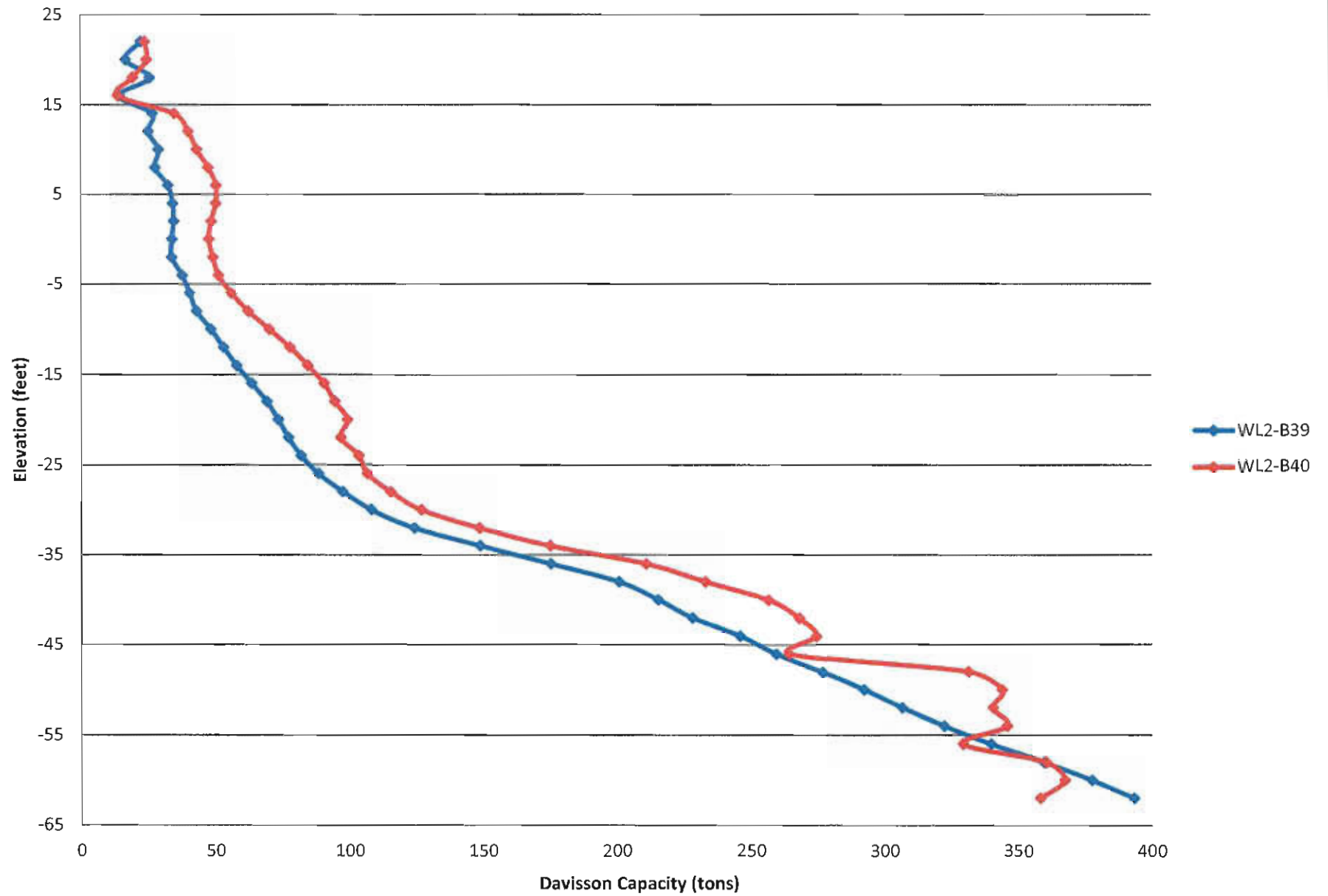
### Bent 21 - 20" Pipe Pile



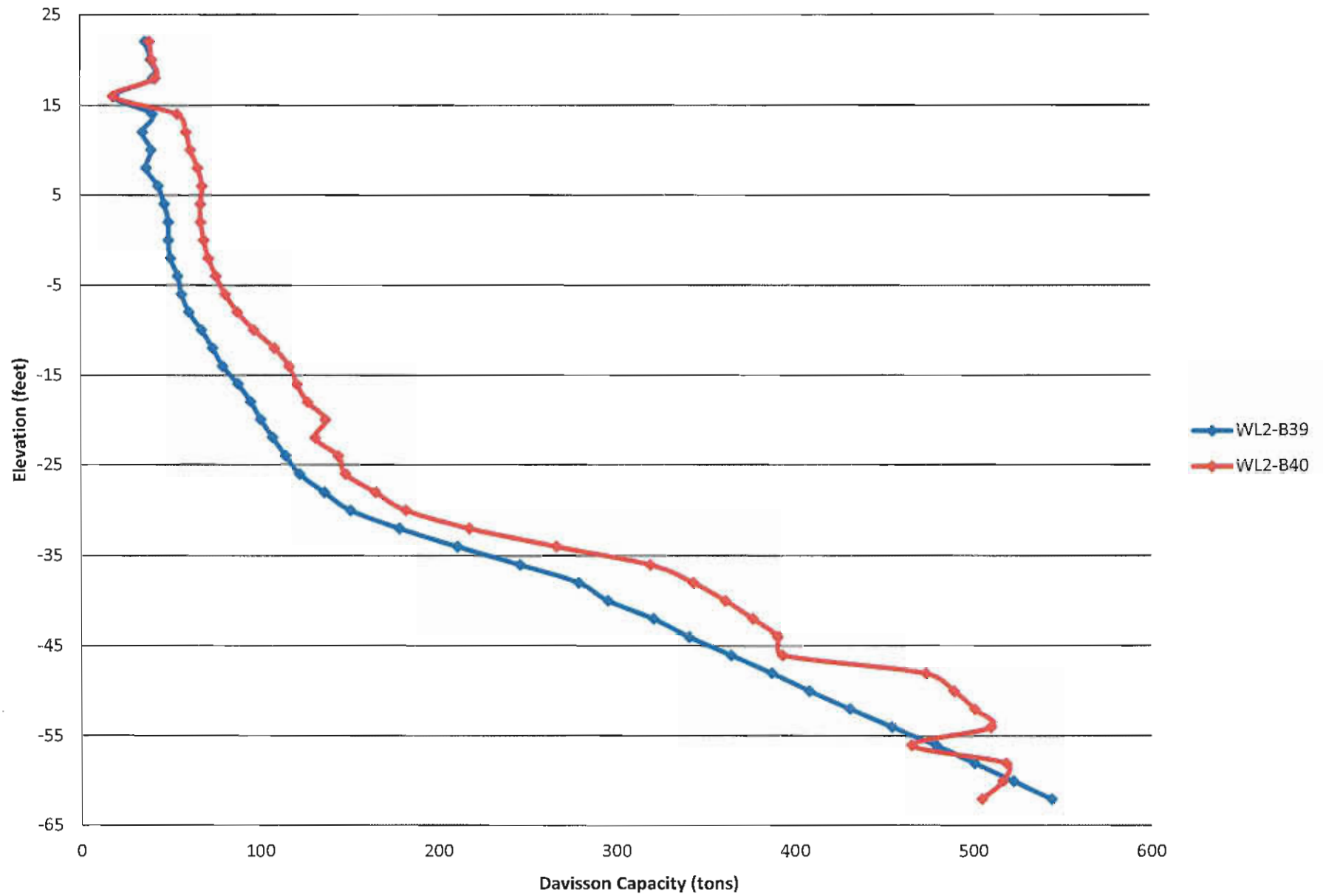
# Bent 21 - HP14x89



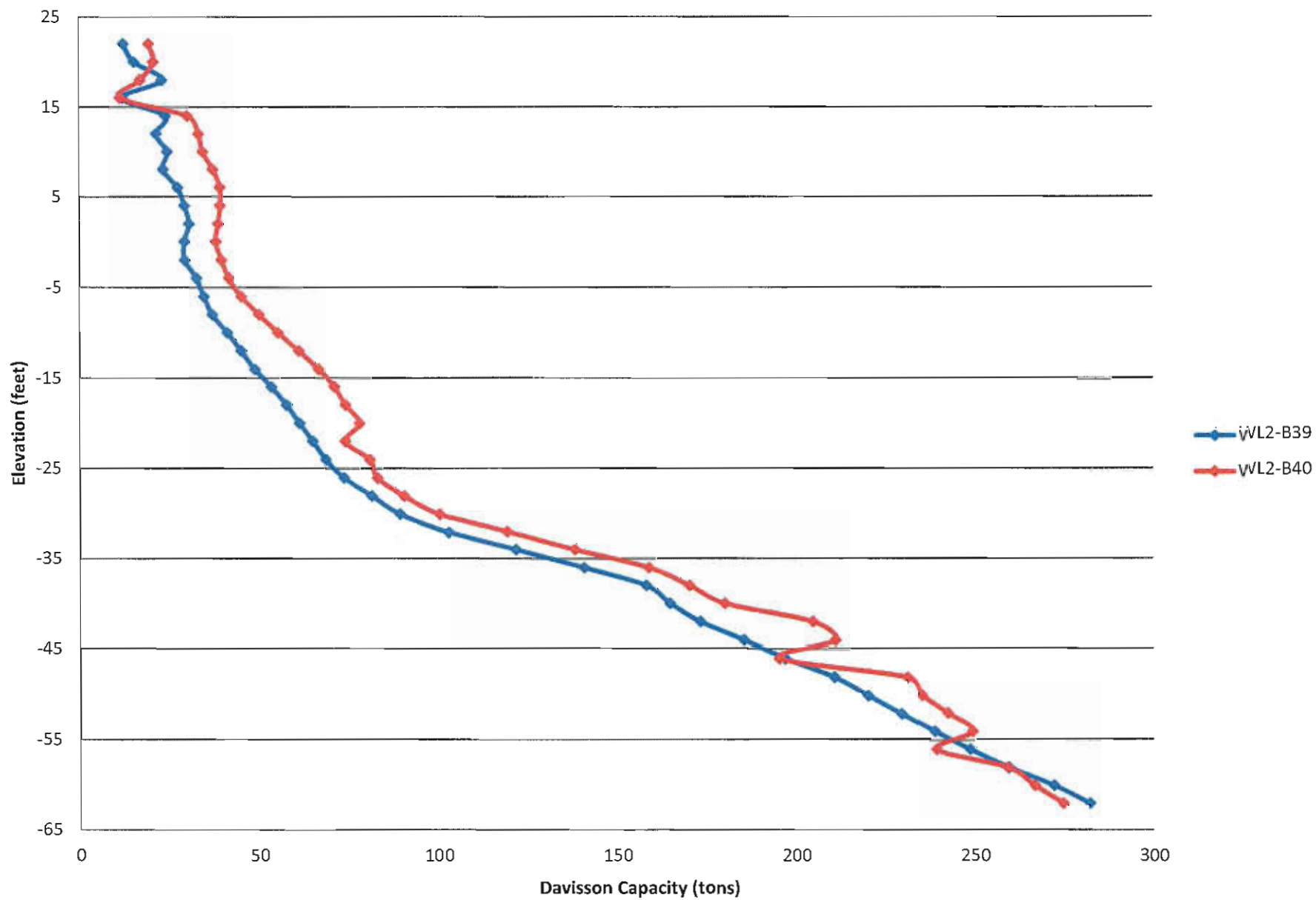
# Bent 22 - 18" PCP



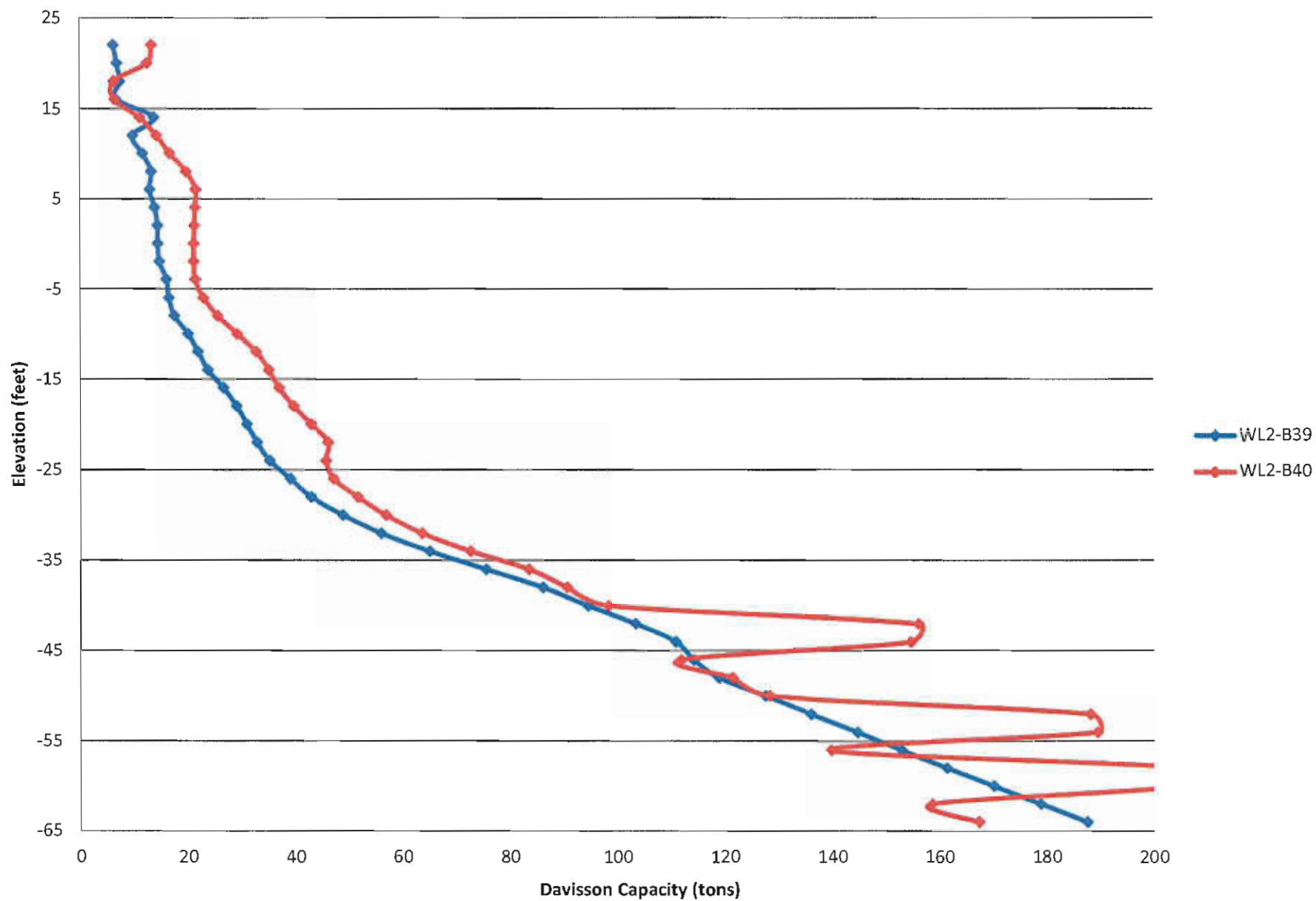
# Bent 22 - 24" PCP



# Bent 22 - 20" Pipe Pile

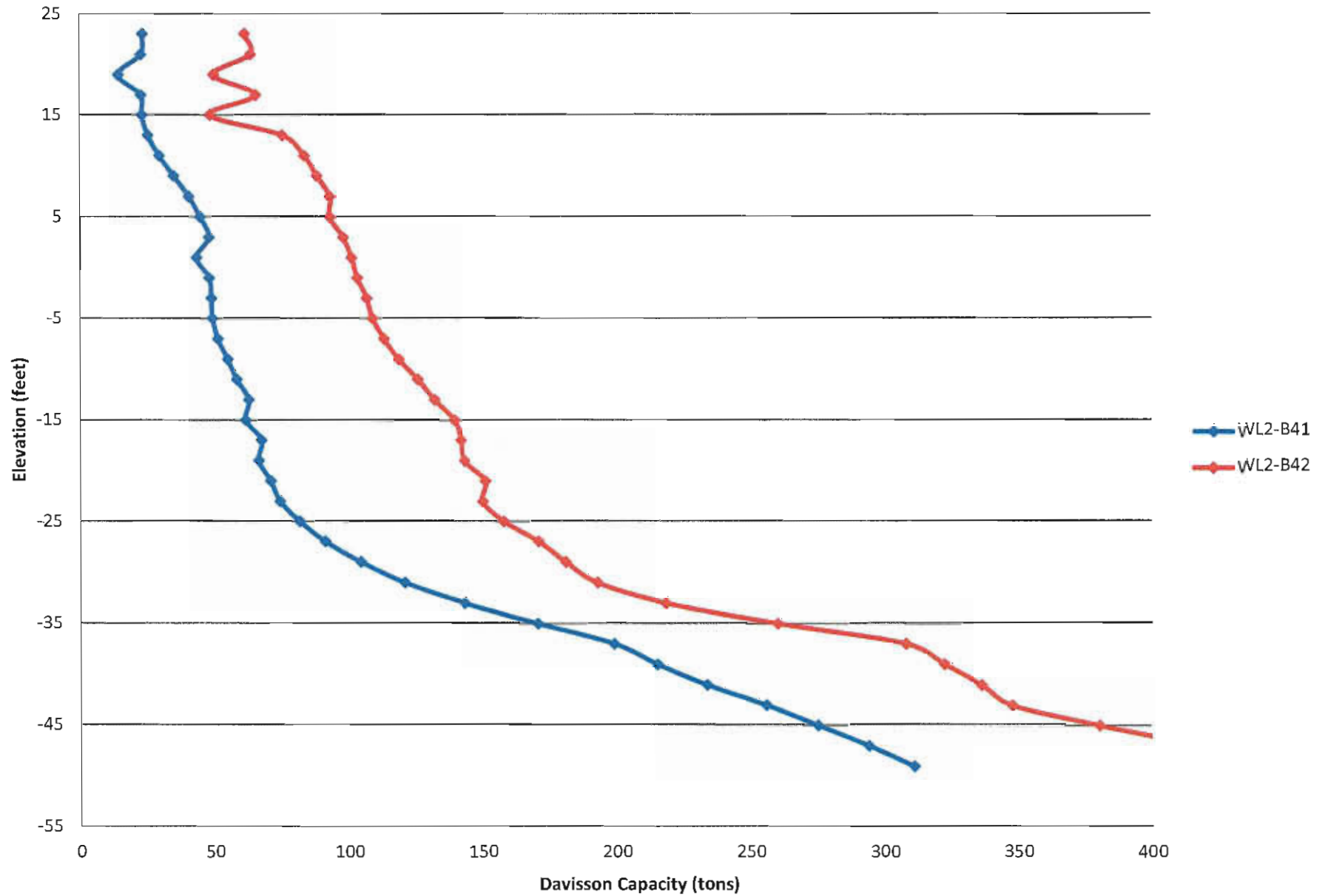


# Bent 22 - HP14x89

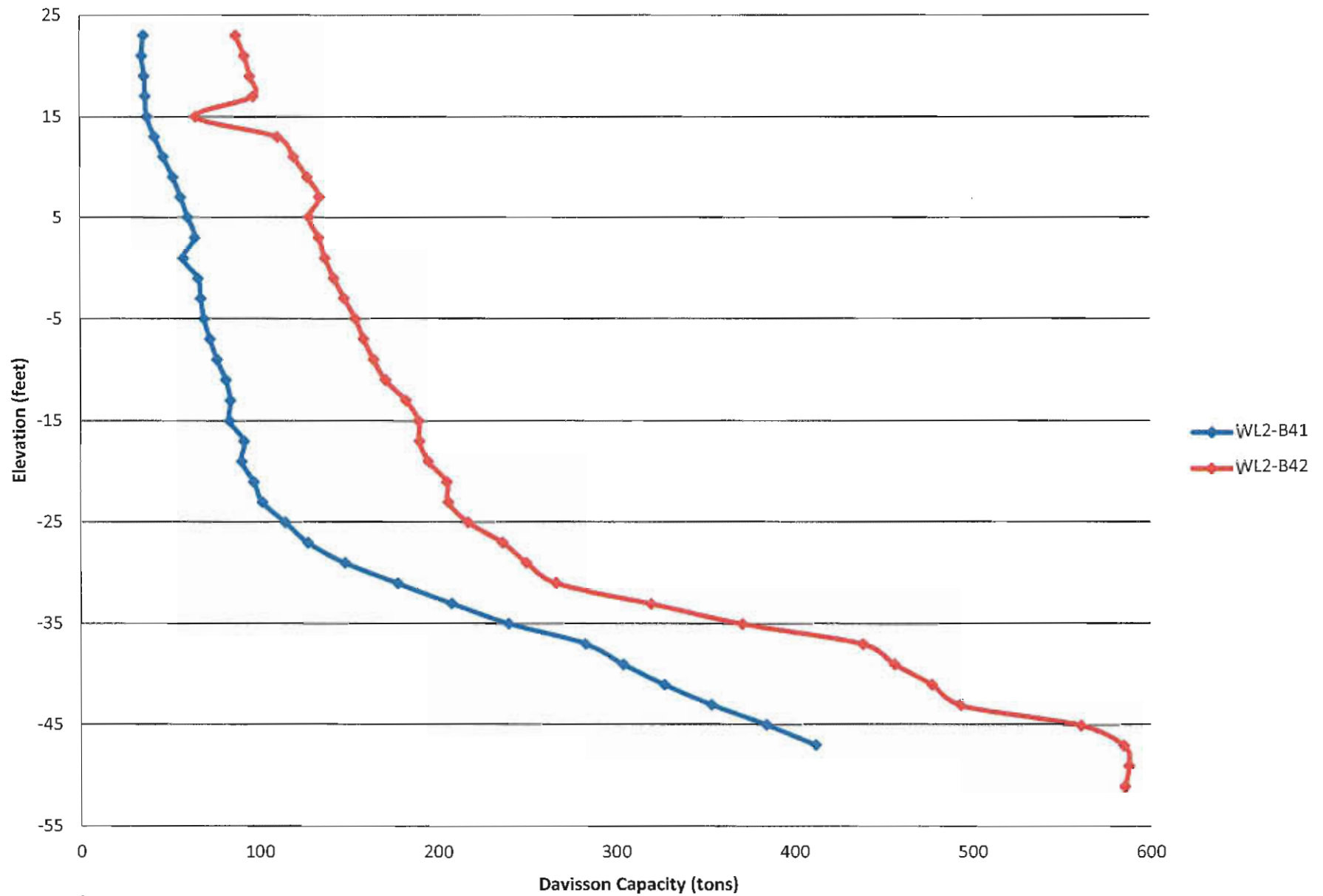




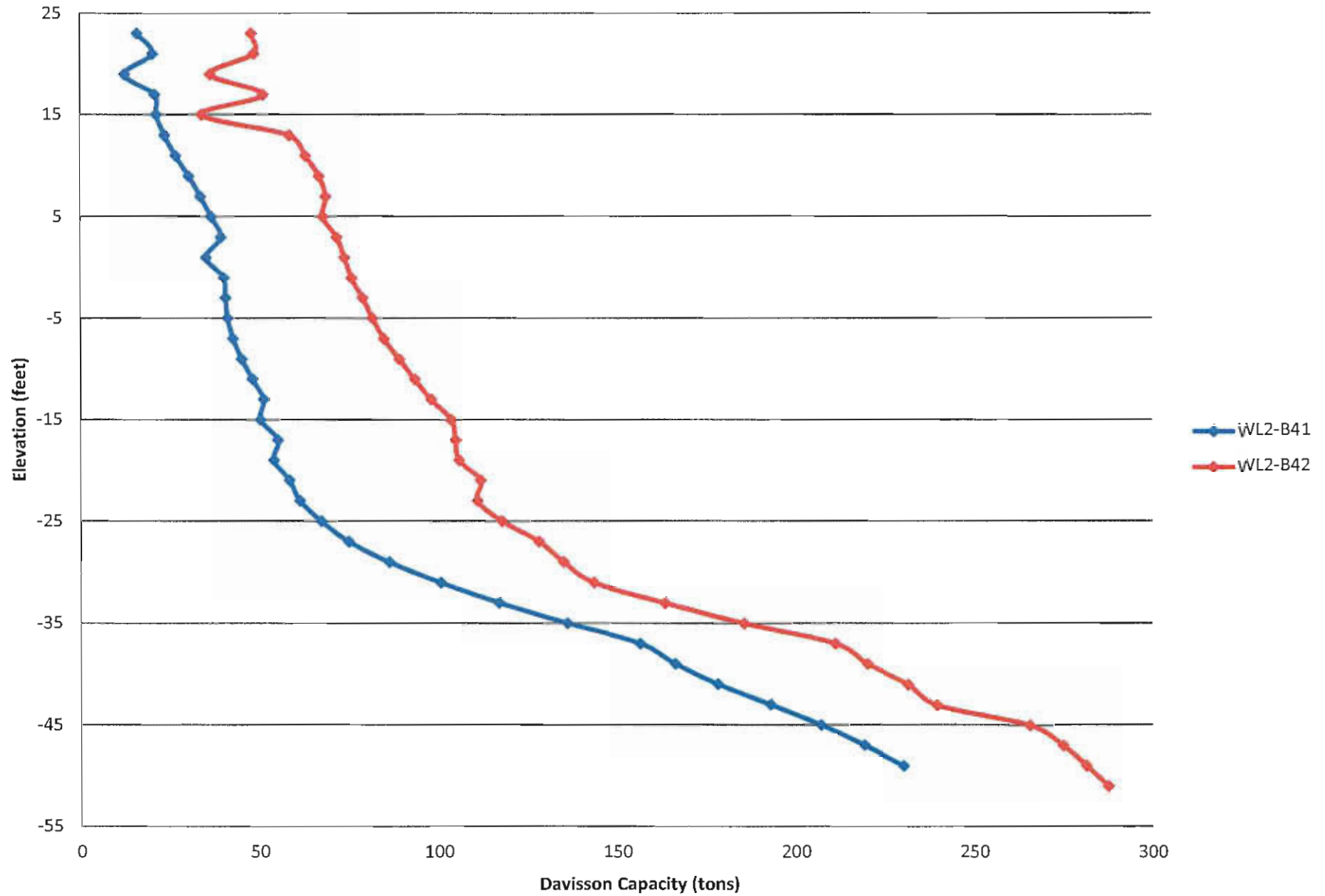
### Bent 23 - 18" PCP



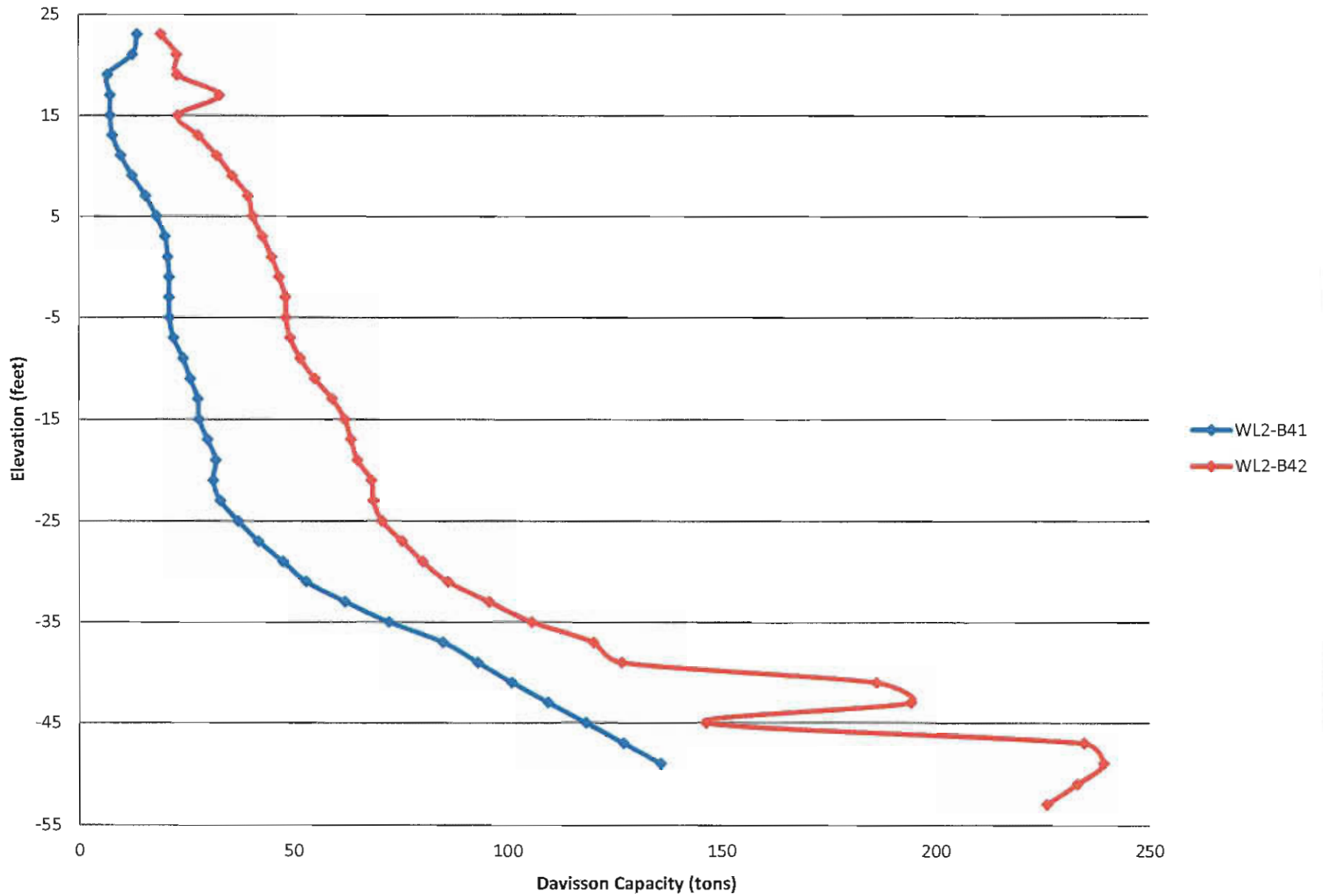
### Bent 23 - 24" PCP



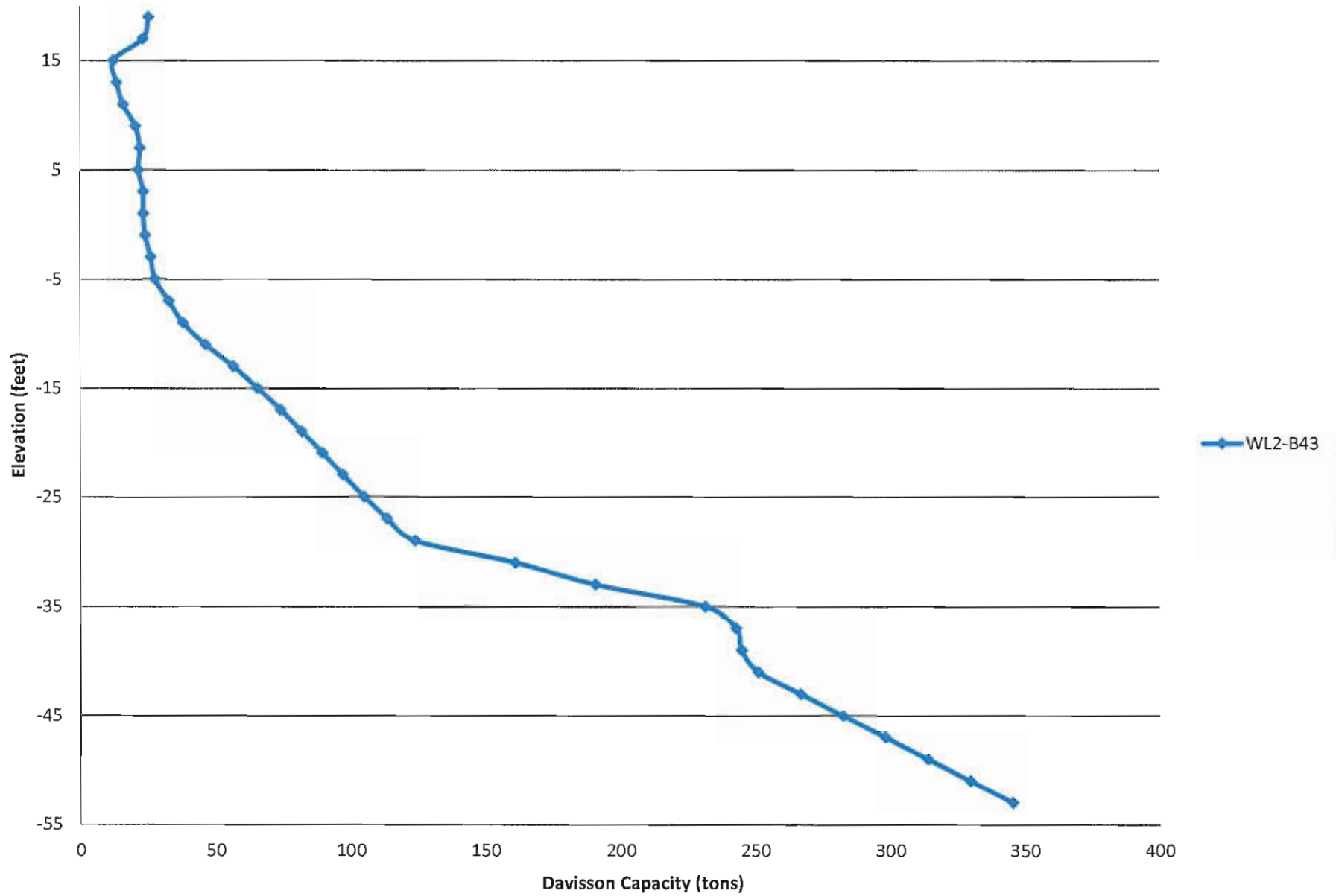
### Bent 23 - 20" Pipe Pile



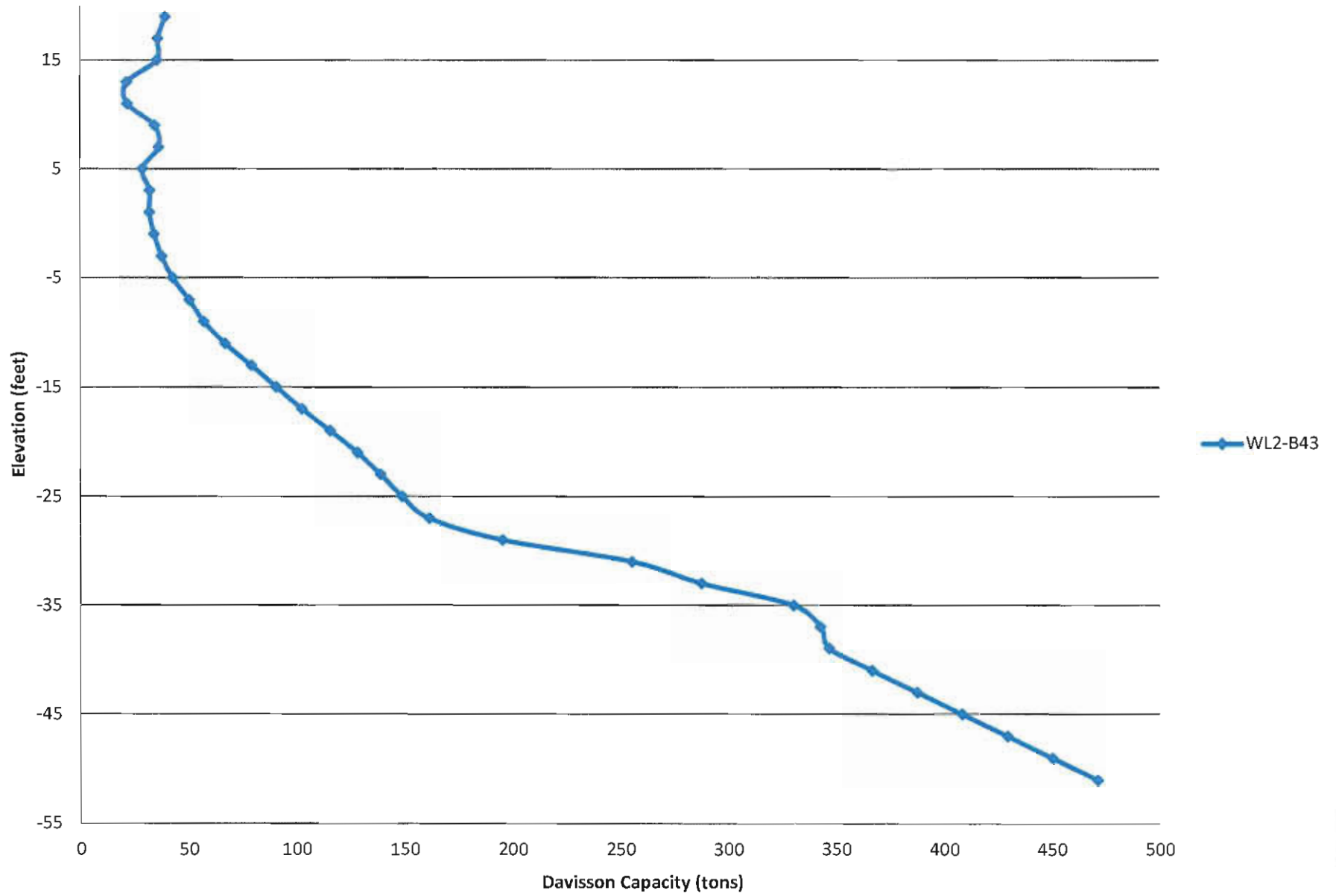
# Bent 23 - HP14x89



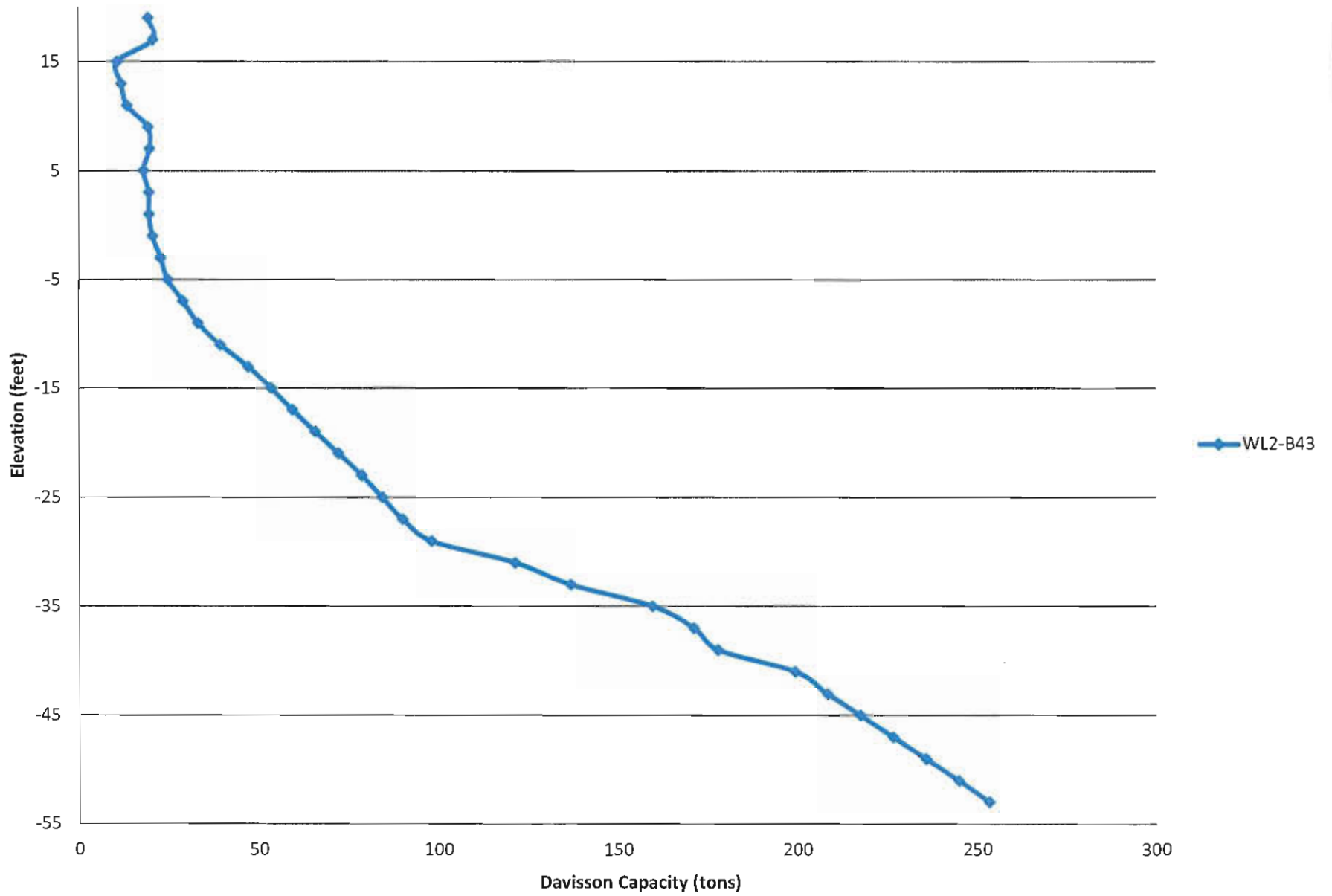
# Bent 24 - 18" PCP



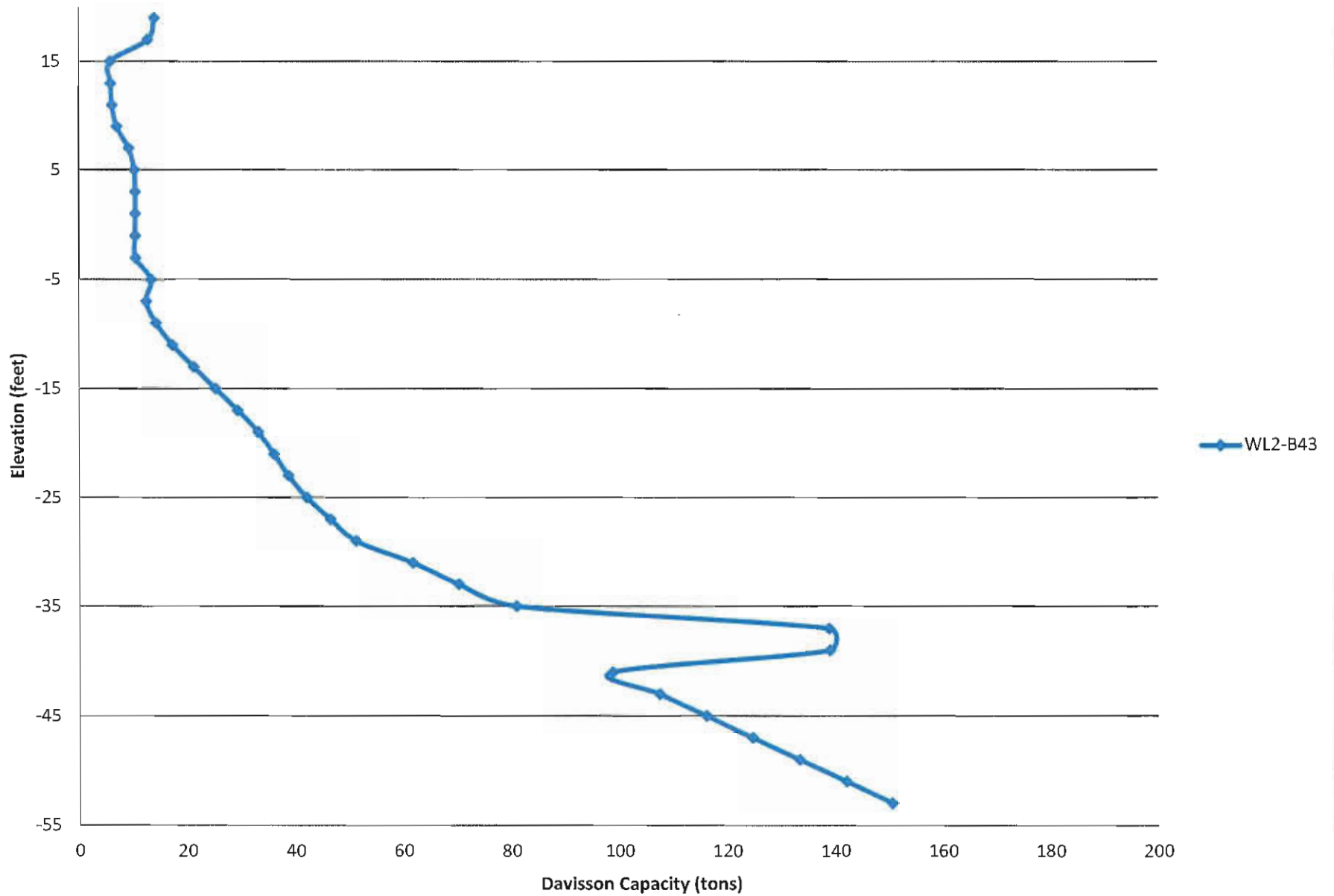
# Bent 24 - 24" PCP



### Bent 24 - 20" Pipe Pile

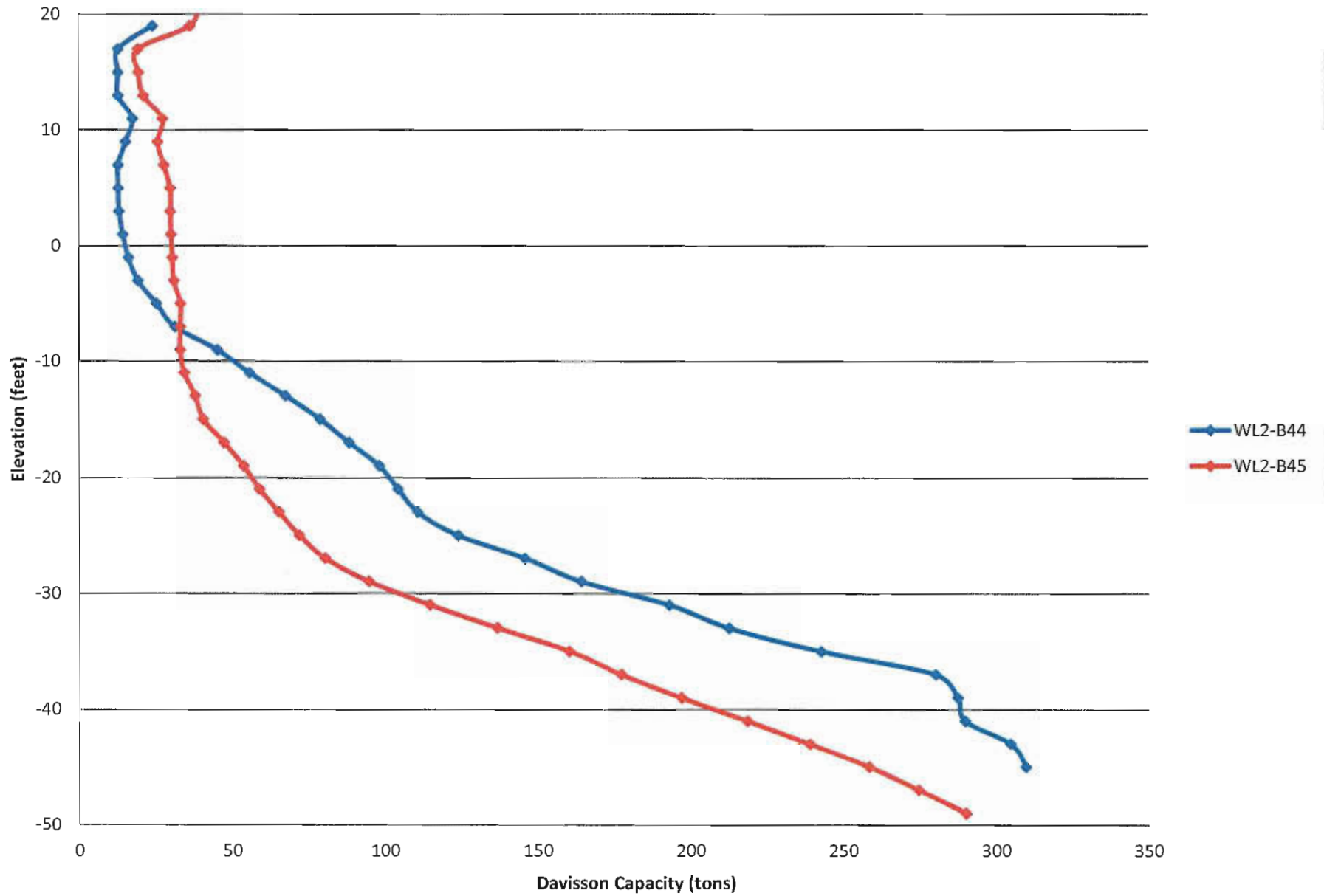


# Bent 24 - HP14x89

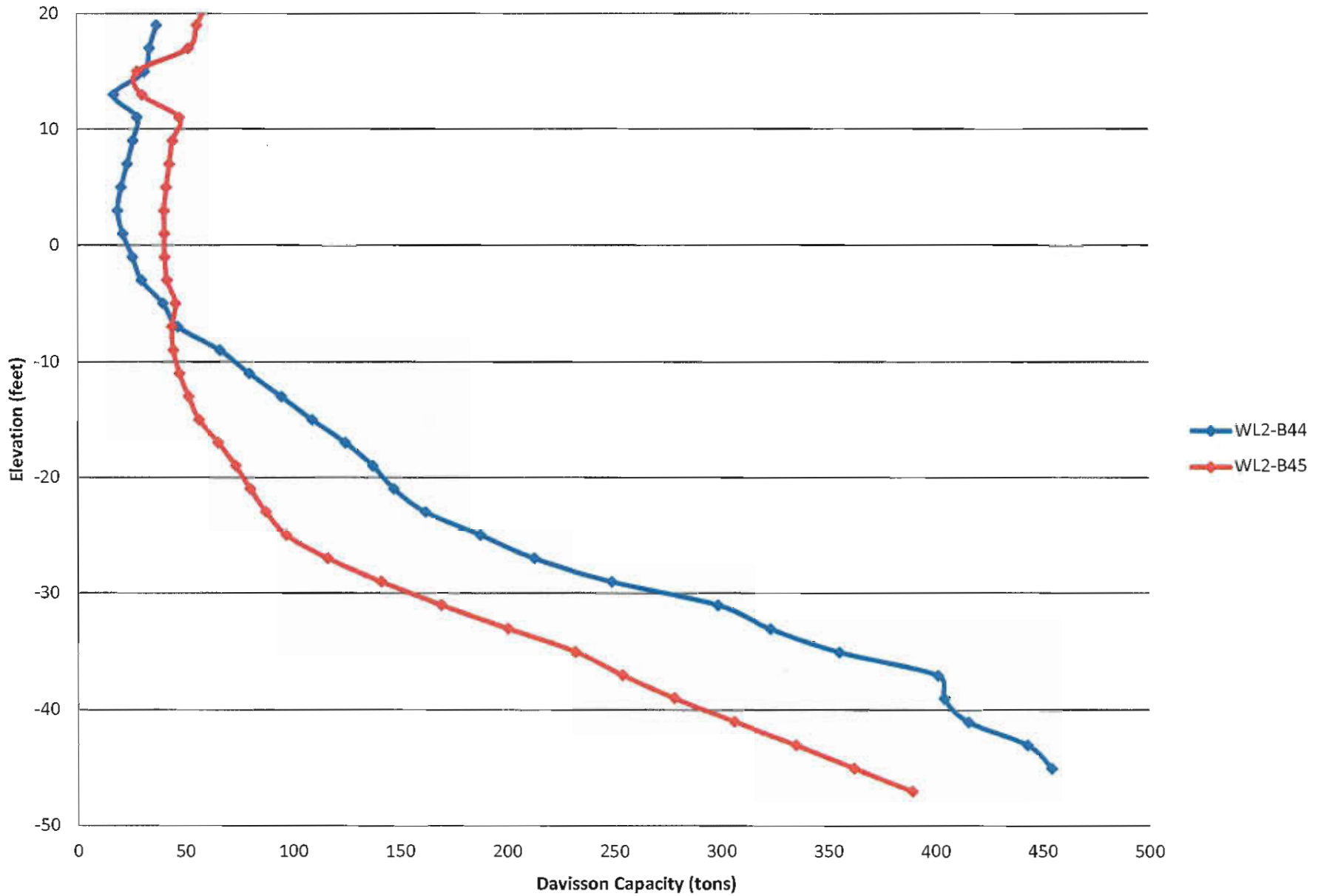




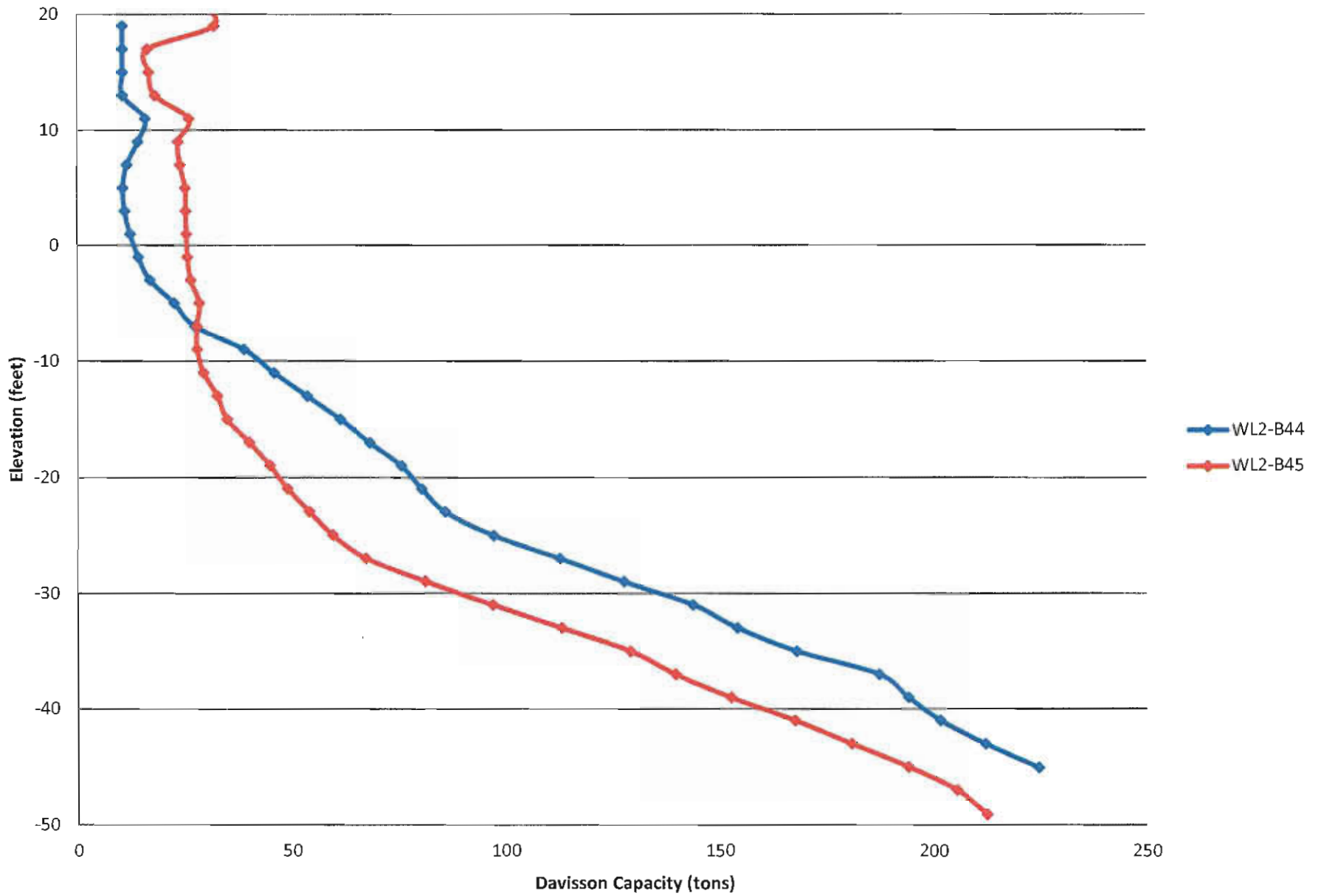
# Bent 25 - 18" PCP



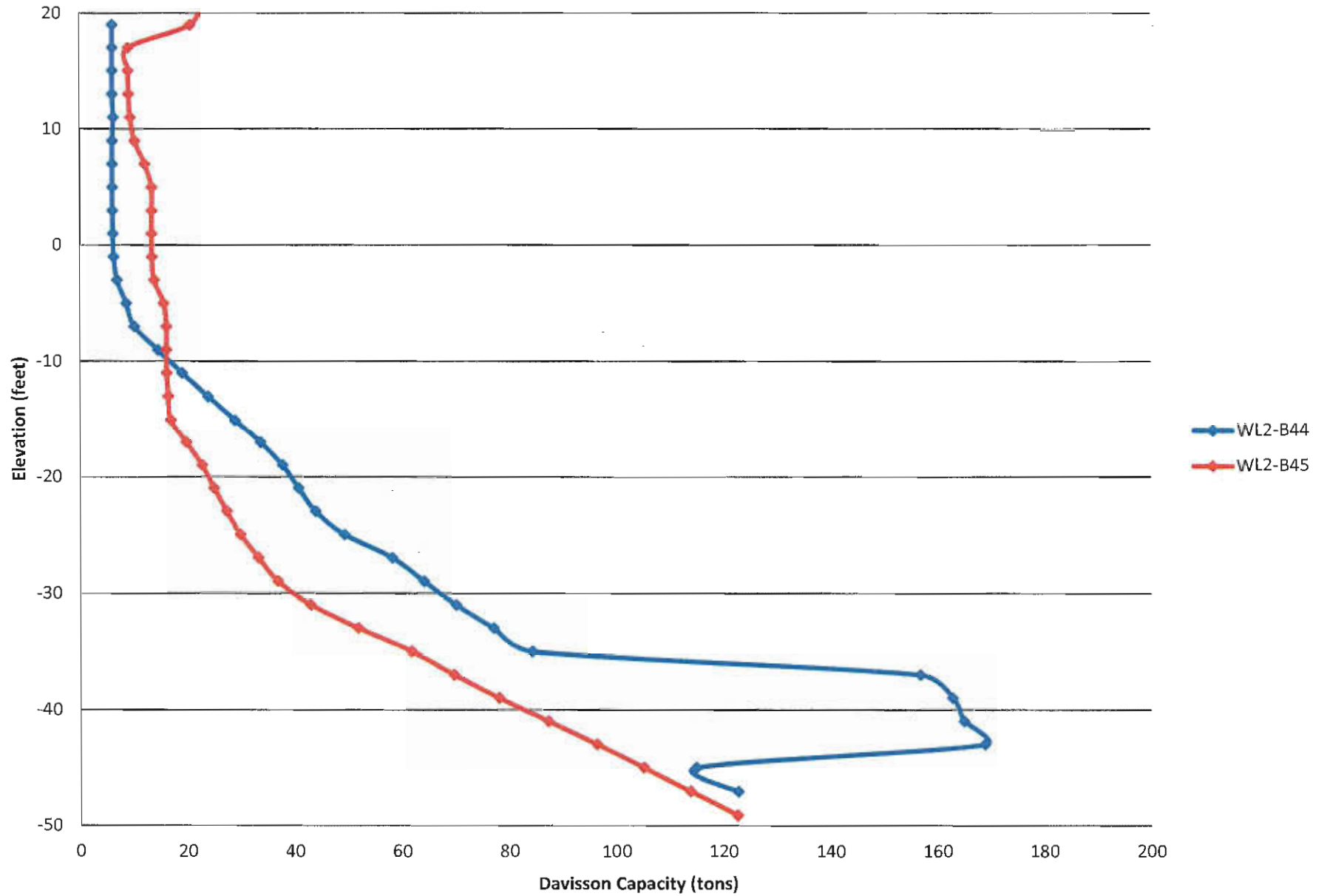
# Bent 25 - 24" PCP



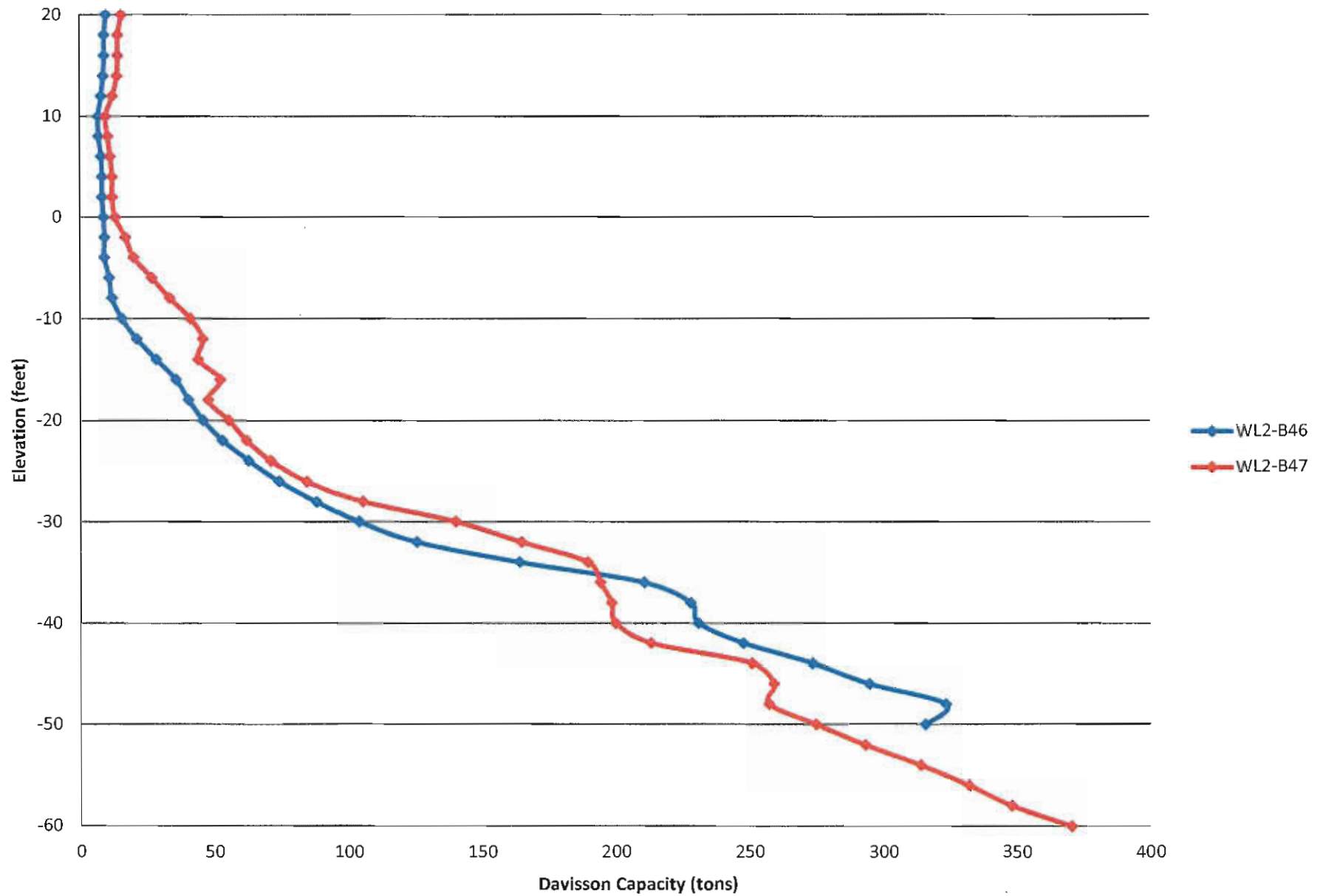
# Bent 25 - 20" Pipe Pile



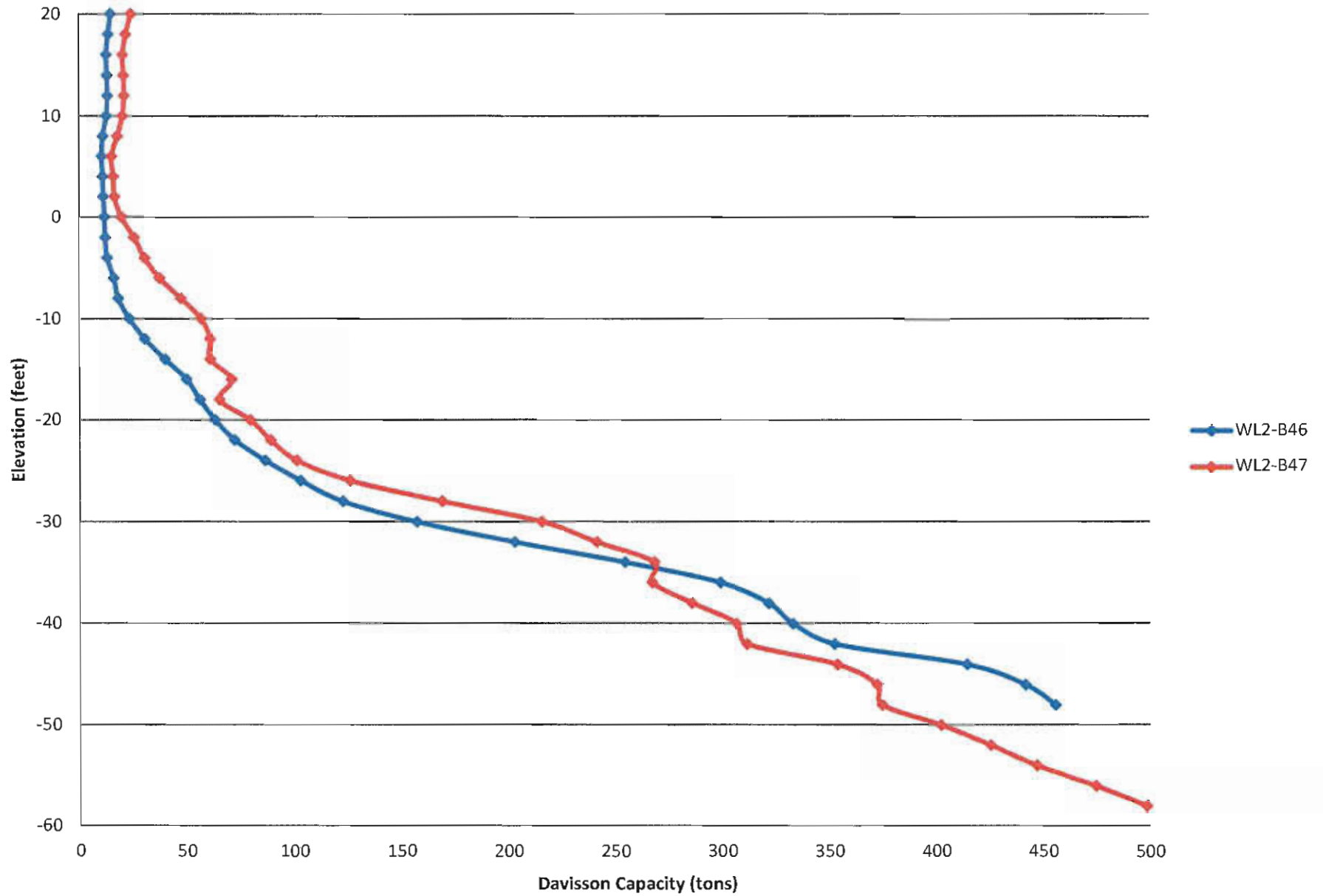
# Bent 25 - HP14x89



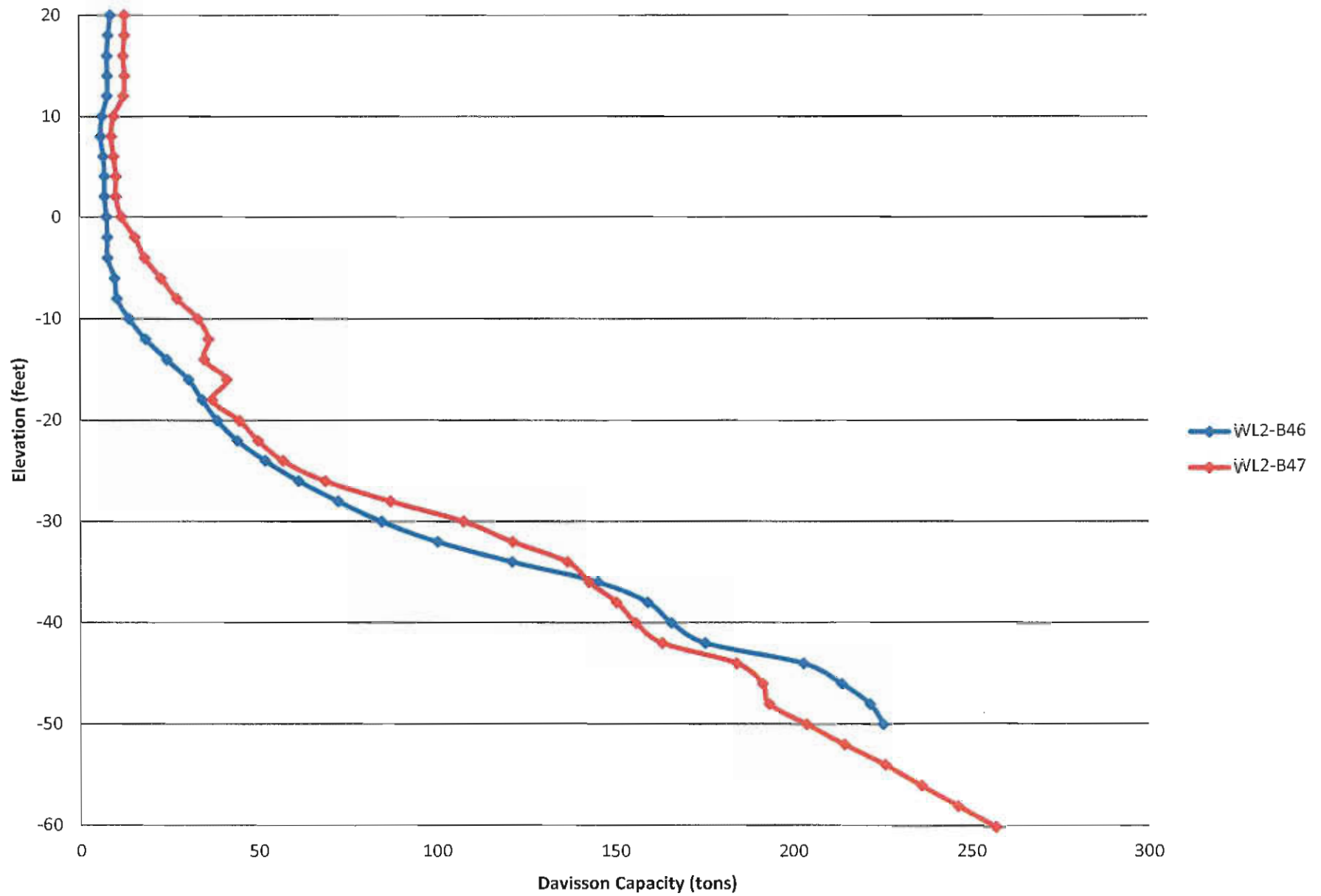
# Bent 26 - 18" PCP



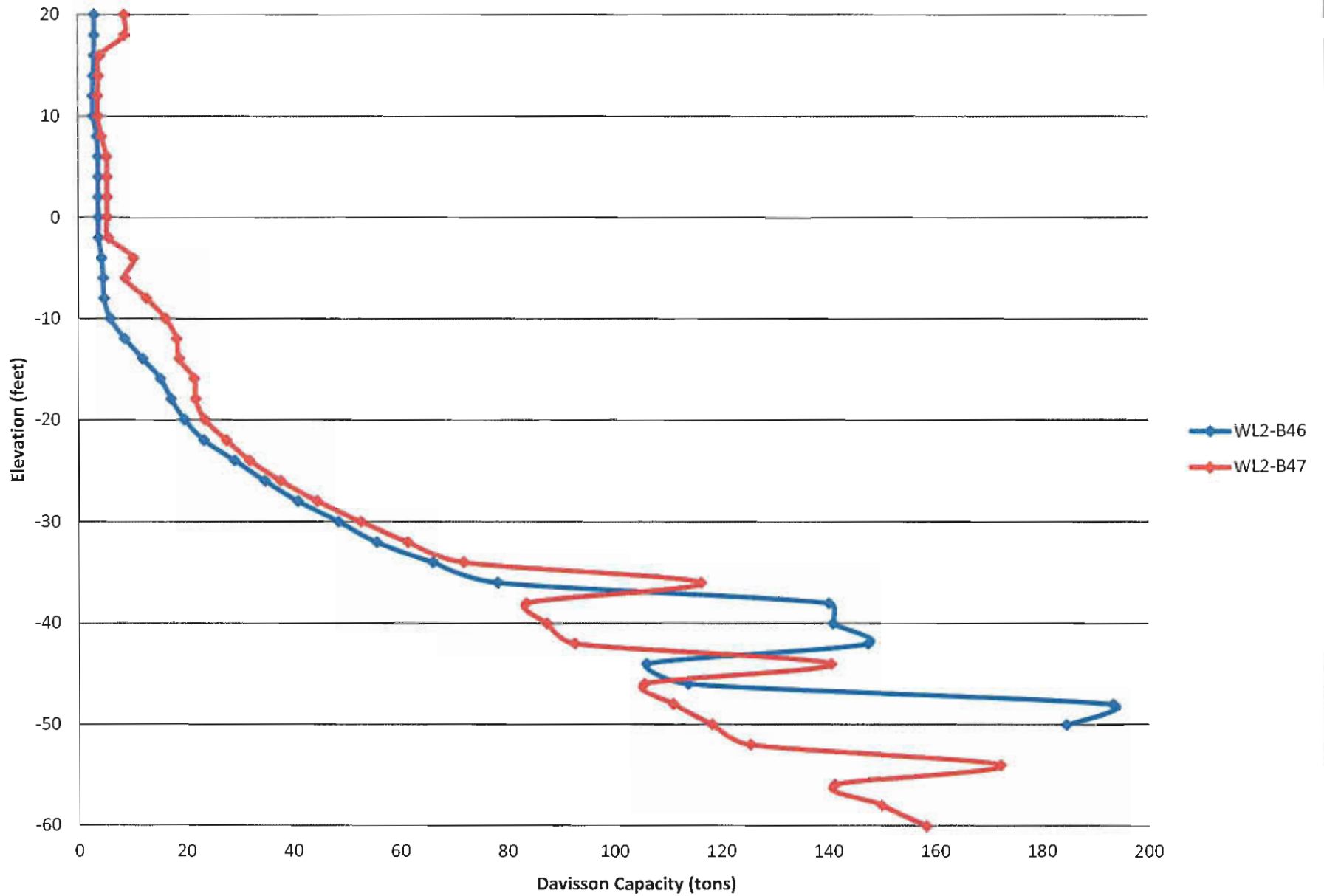
# Bent 26 - 24" PCP



# Bent 26 - 20" Pipe Pile

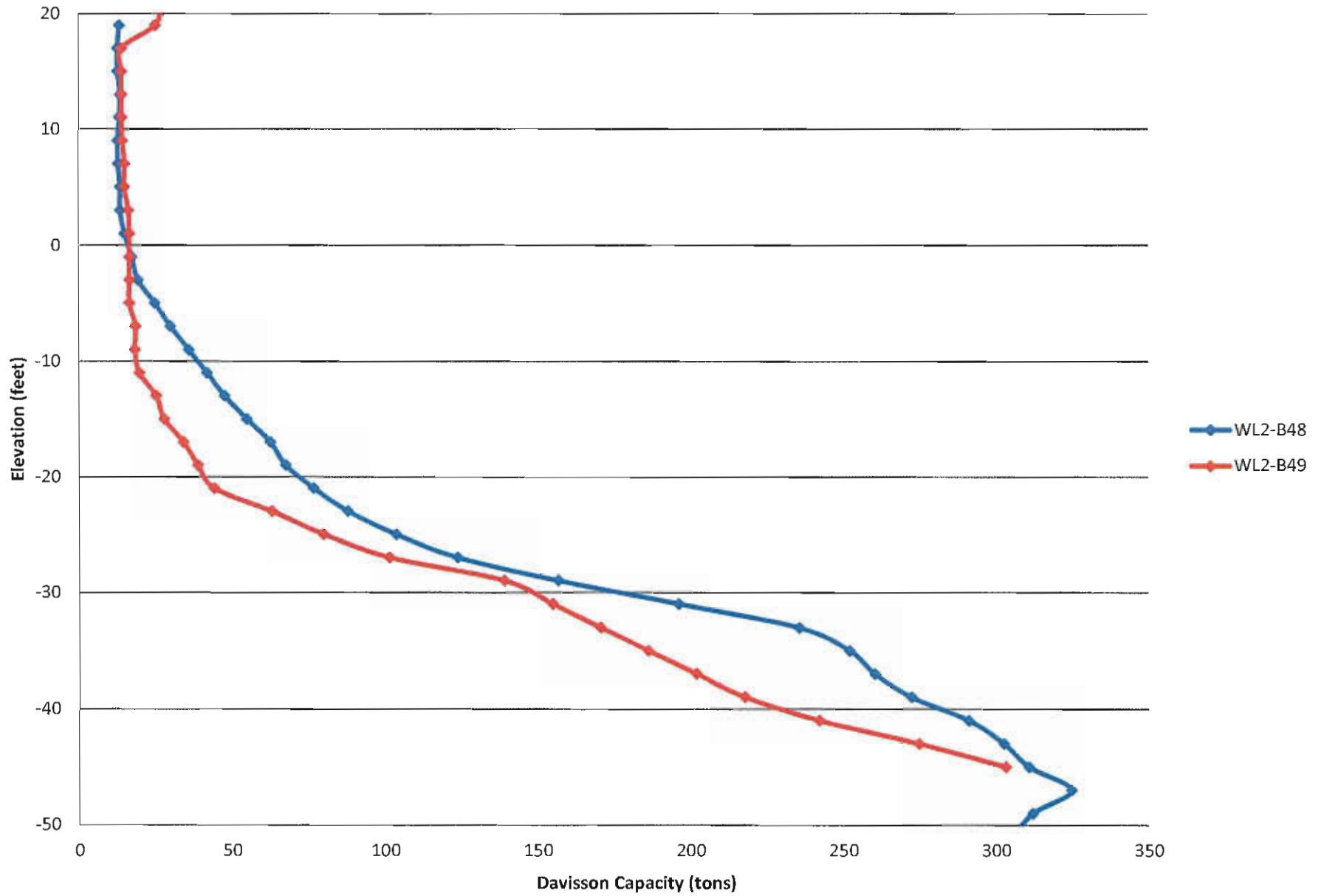


# Bent 26 - HP14x89

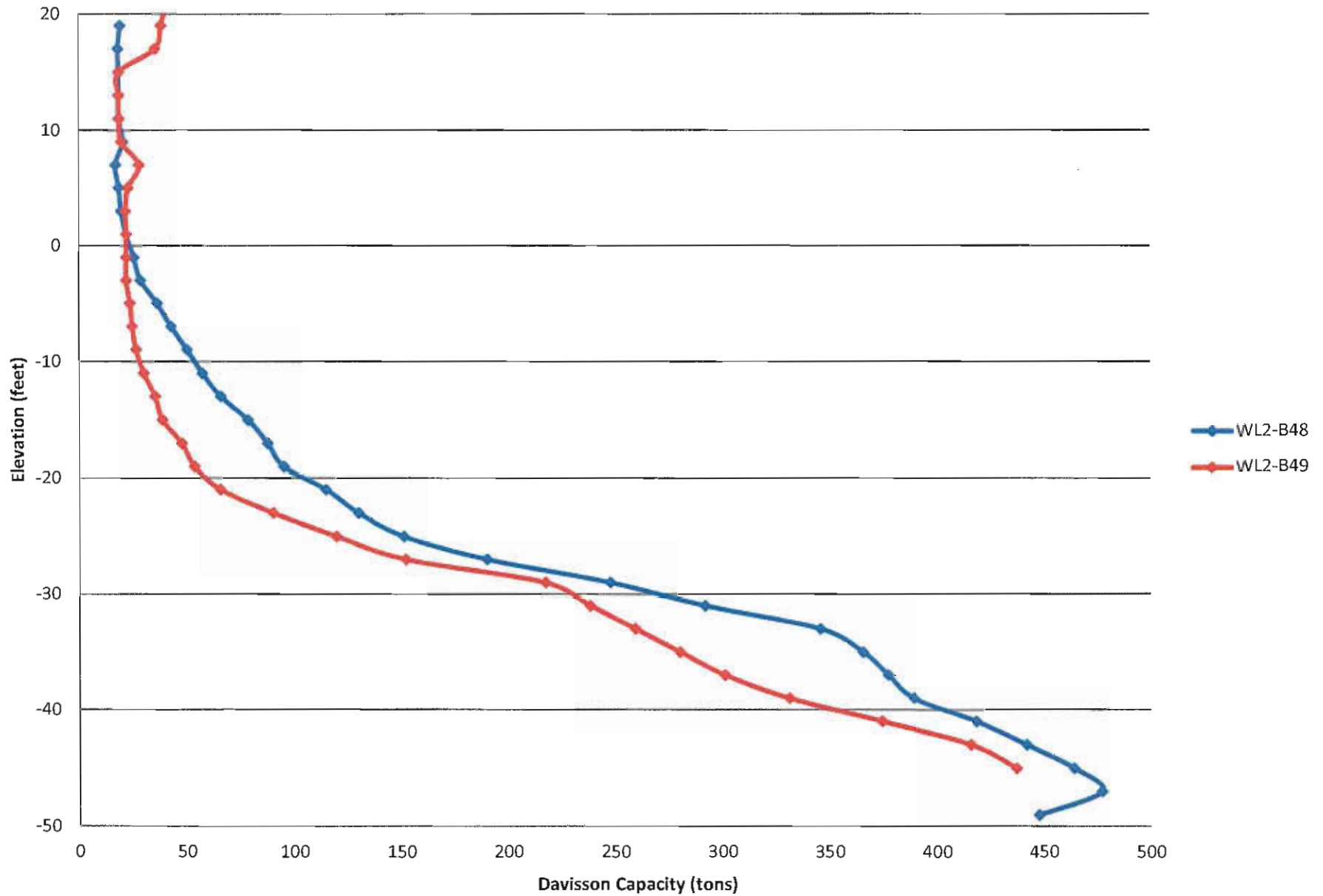




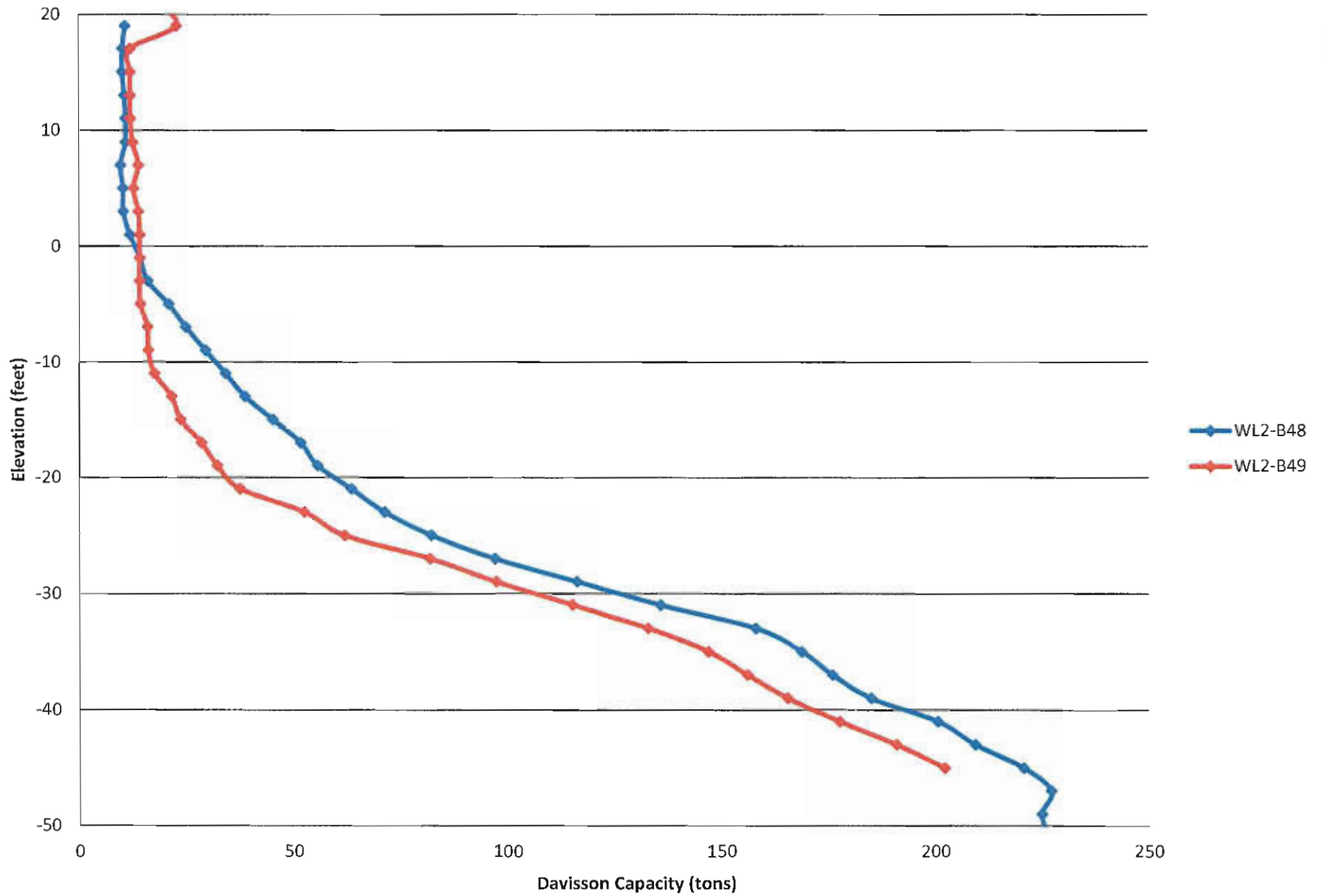
# Bent 27 - 18" PCP



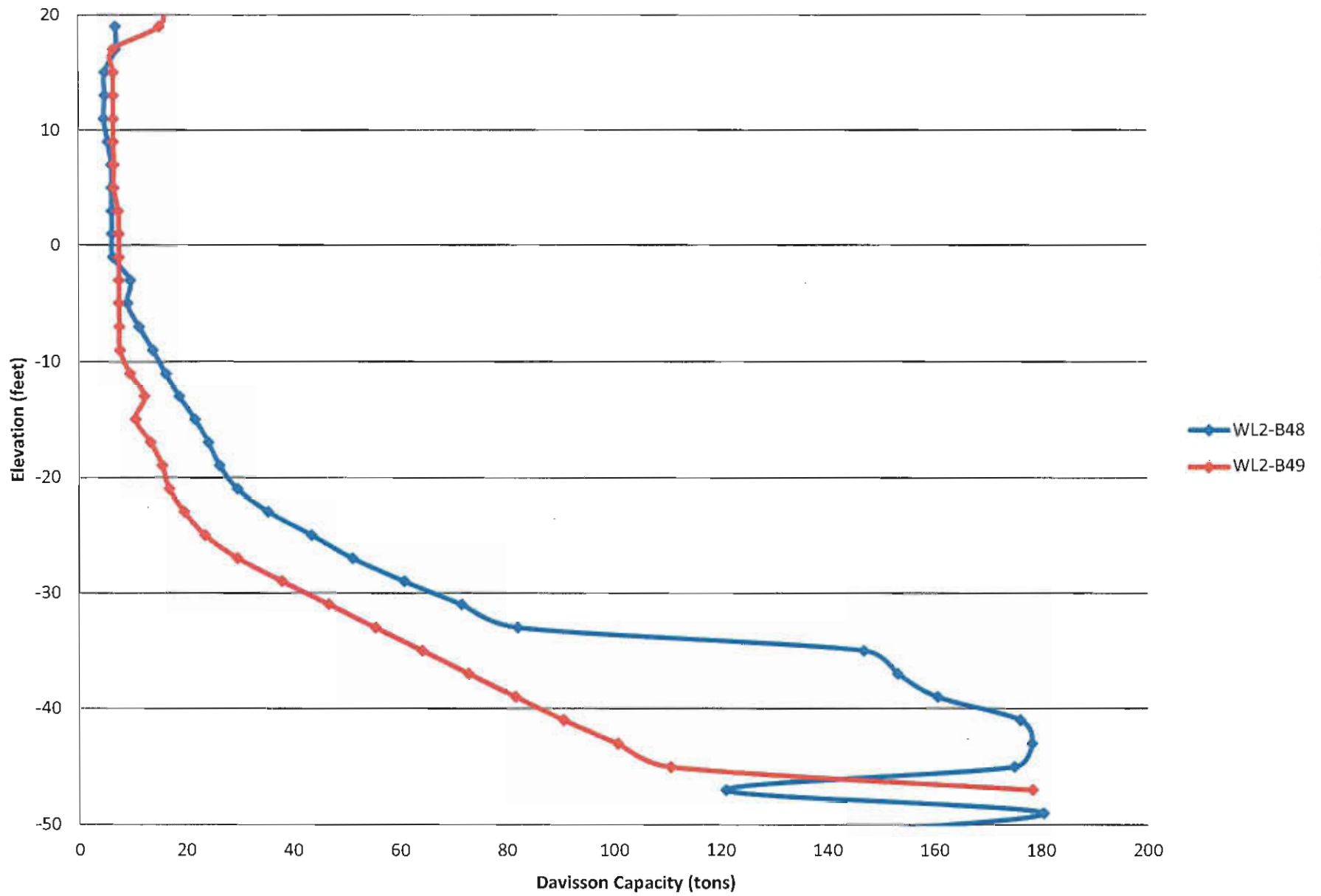
# Bent 27 - 24" PCP



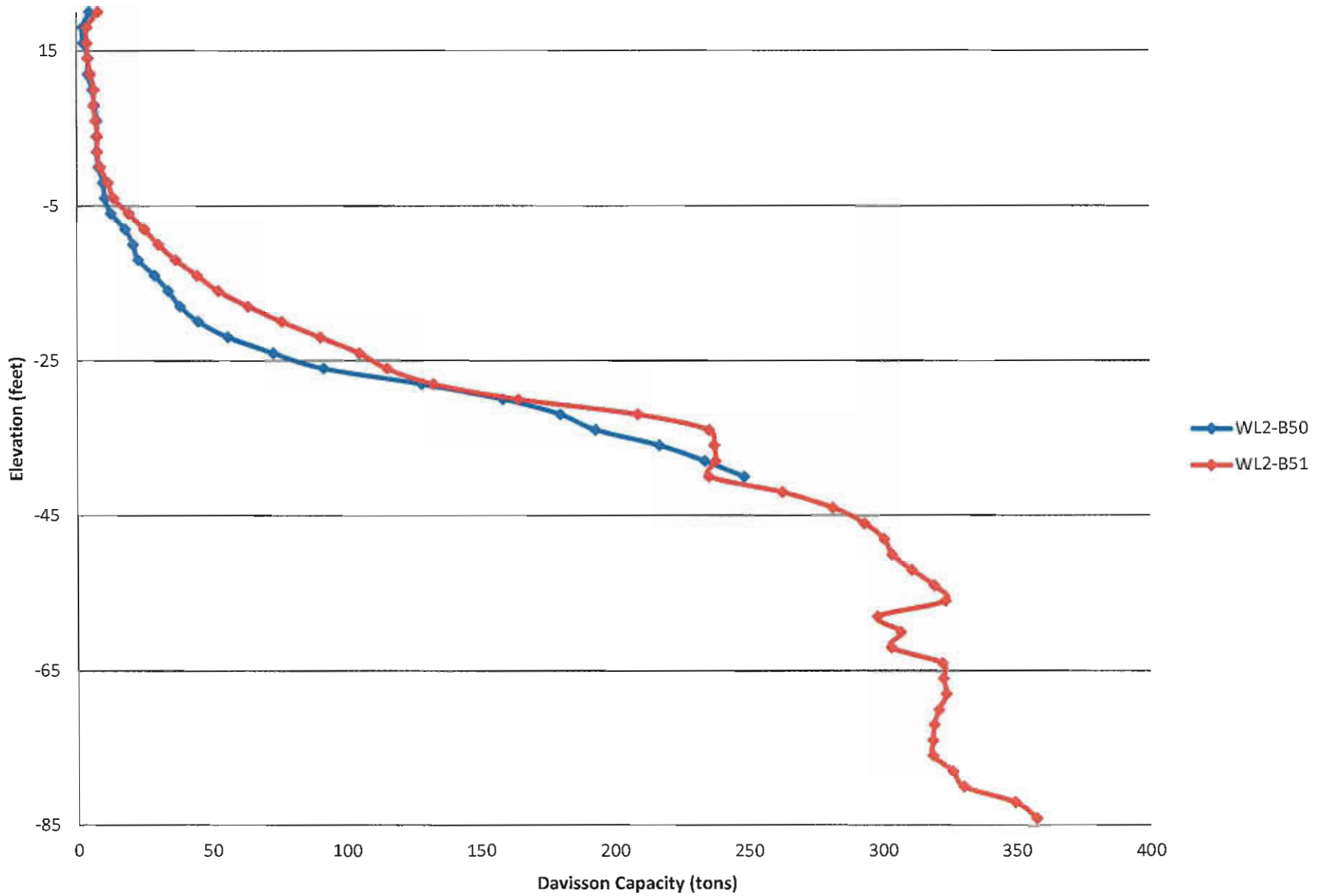
# Bent 27 - 20" Pipe Pile



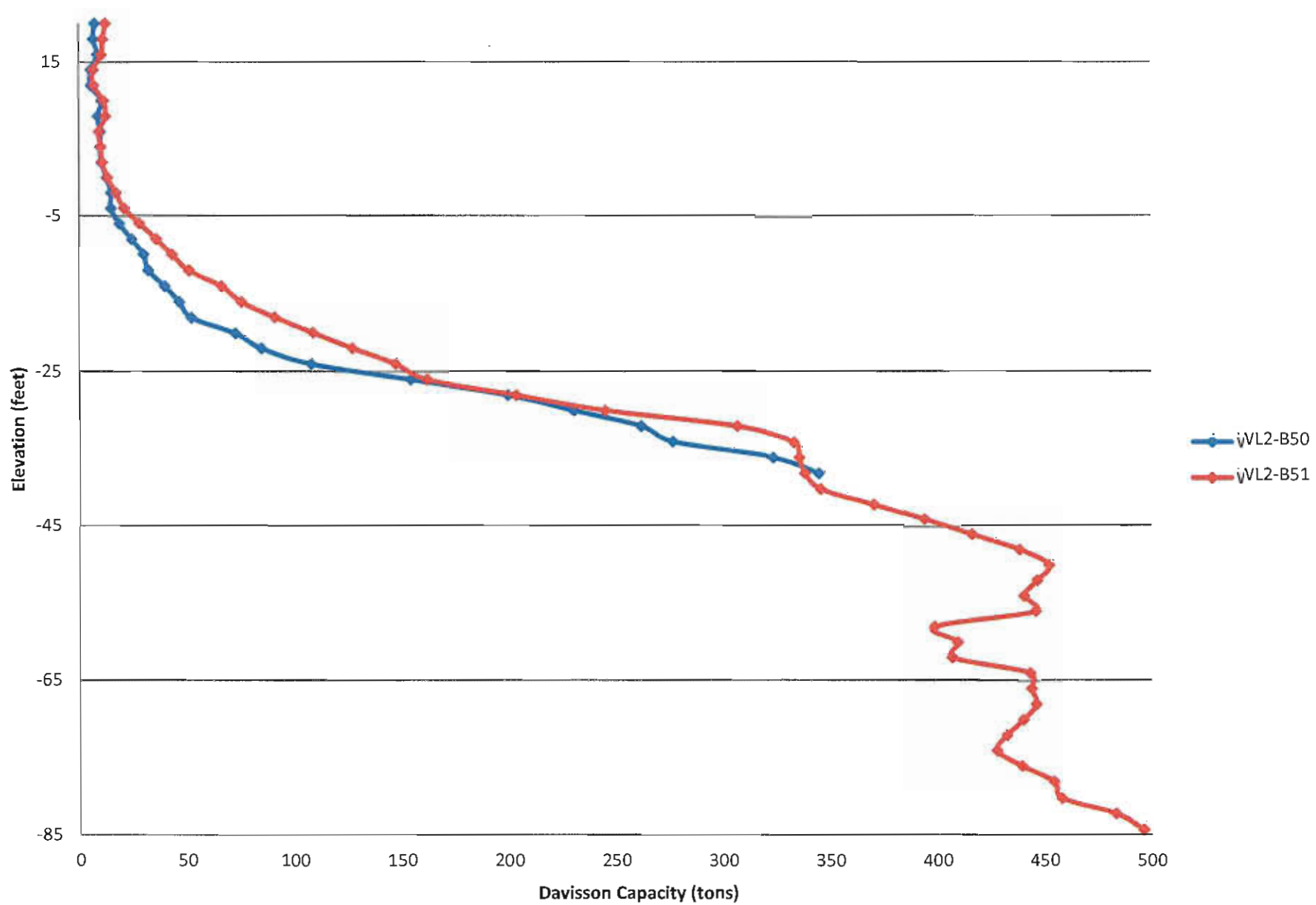
# Bent 27 - HP14x89



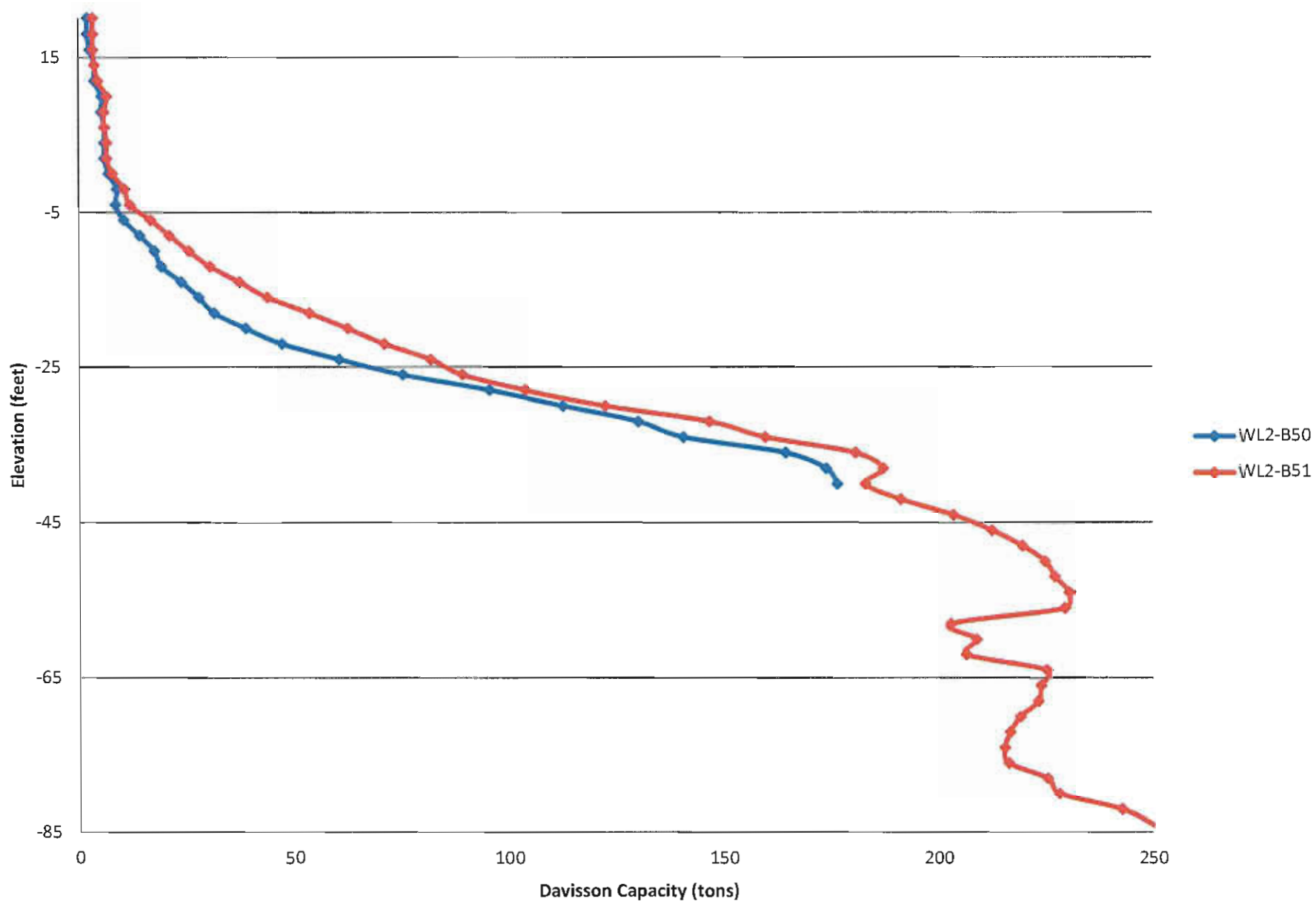
# Bent 28 - 18" PCP



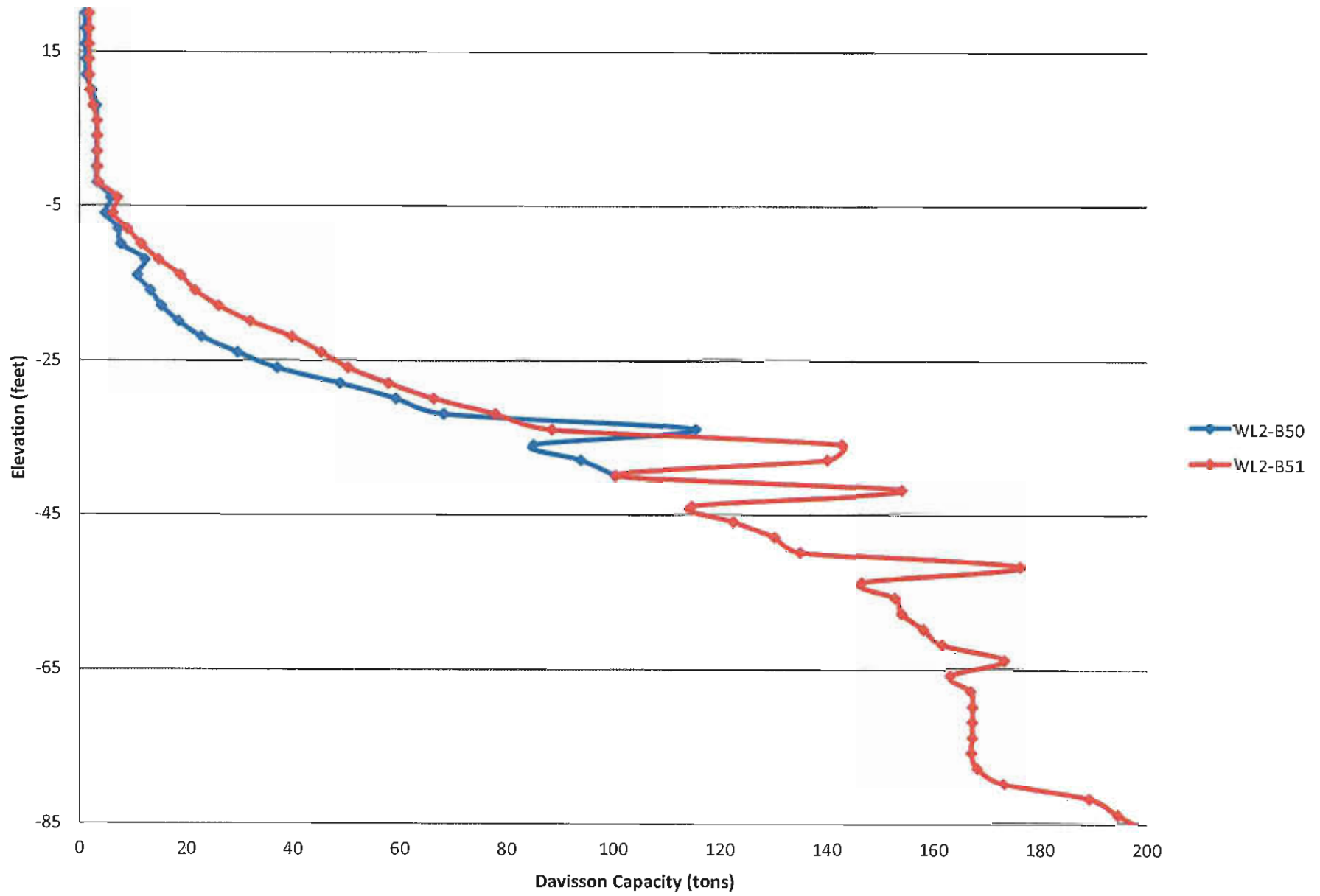
# Bent 28 - 24" PCP



# Bent 28 - 20" Pipe Pile

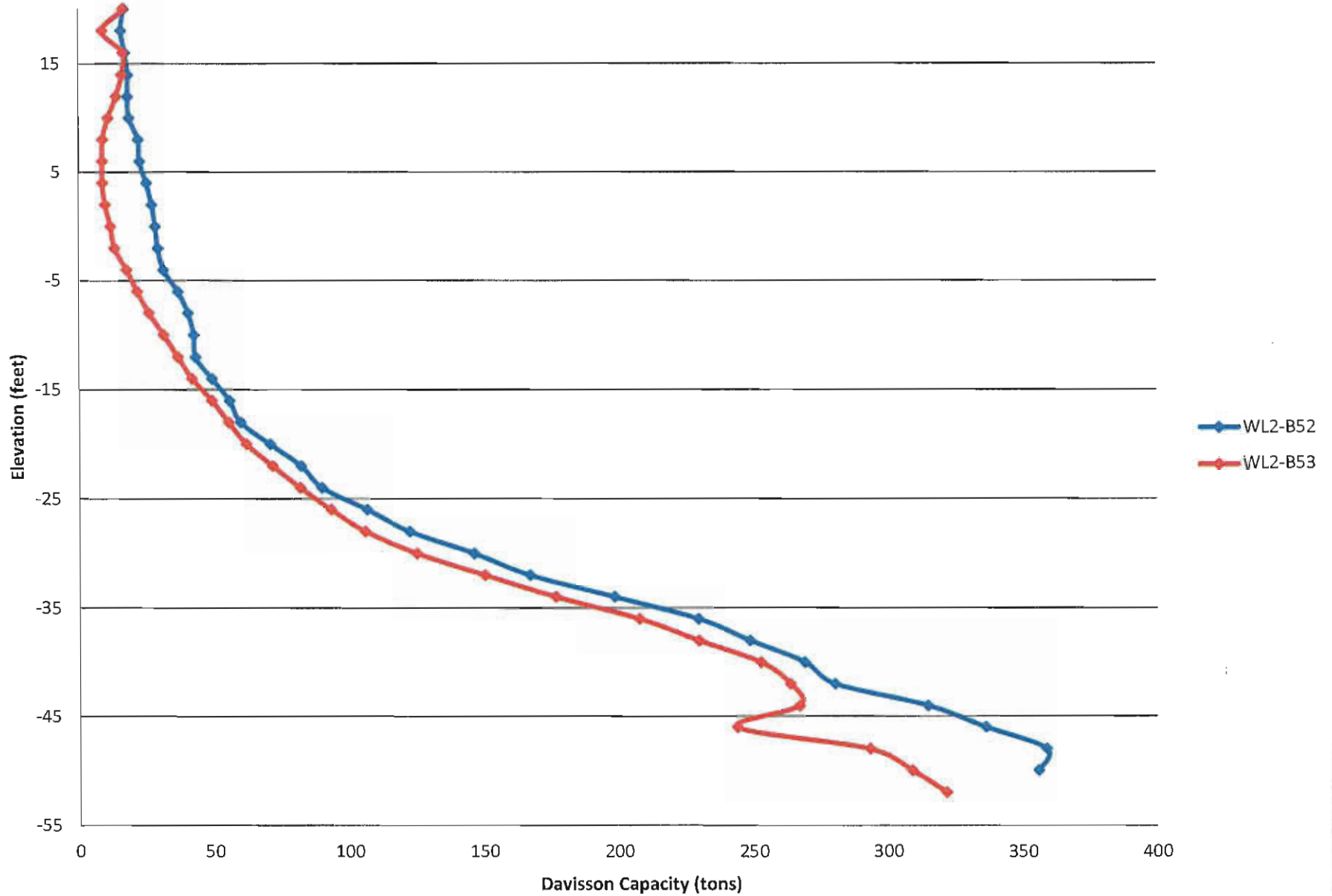


# Bent 28 - HP14x89

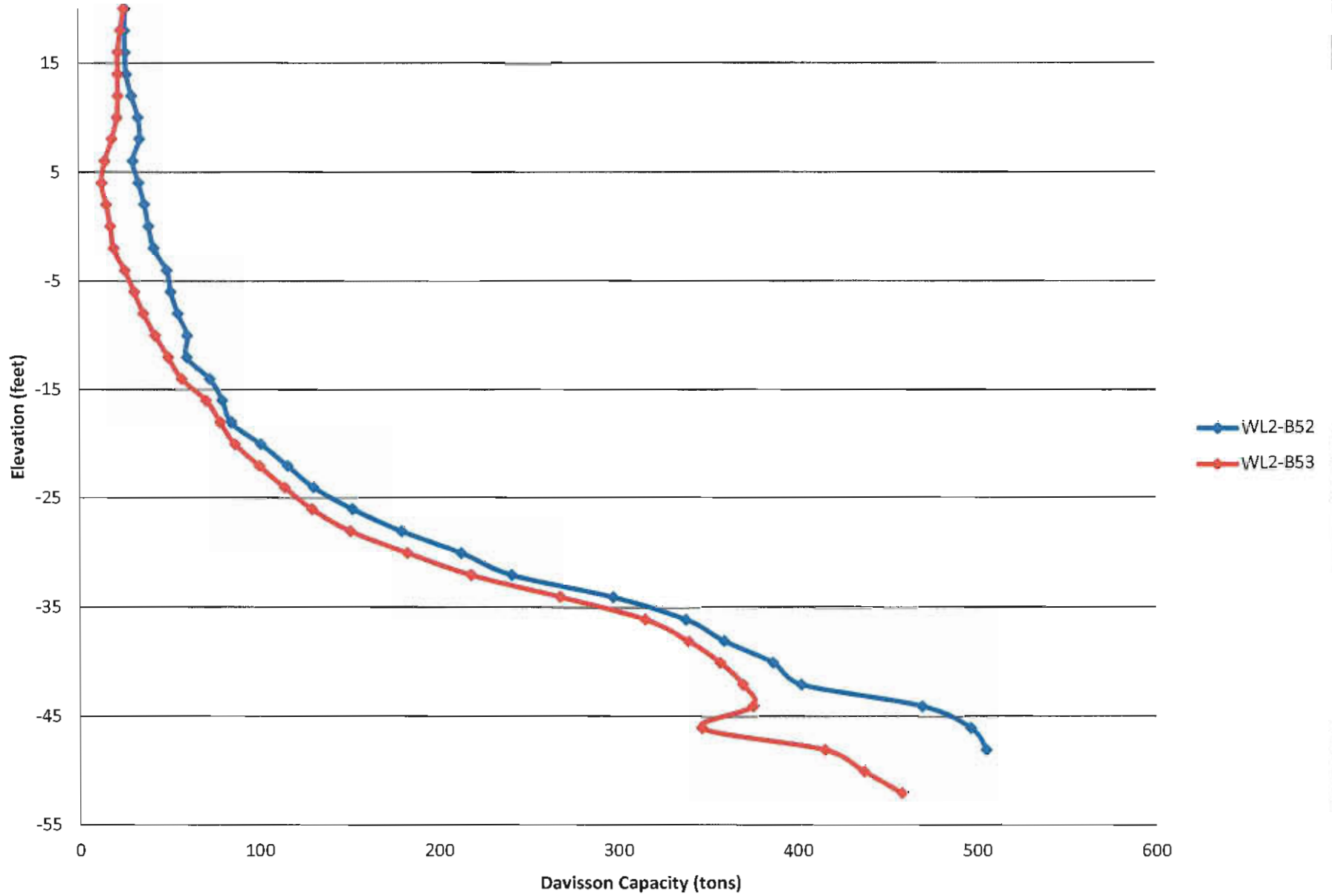




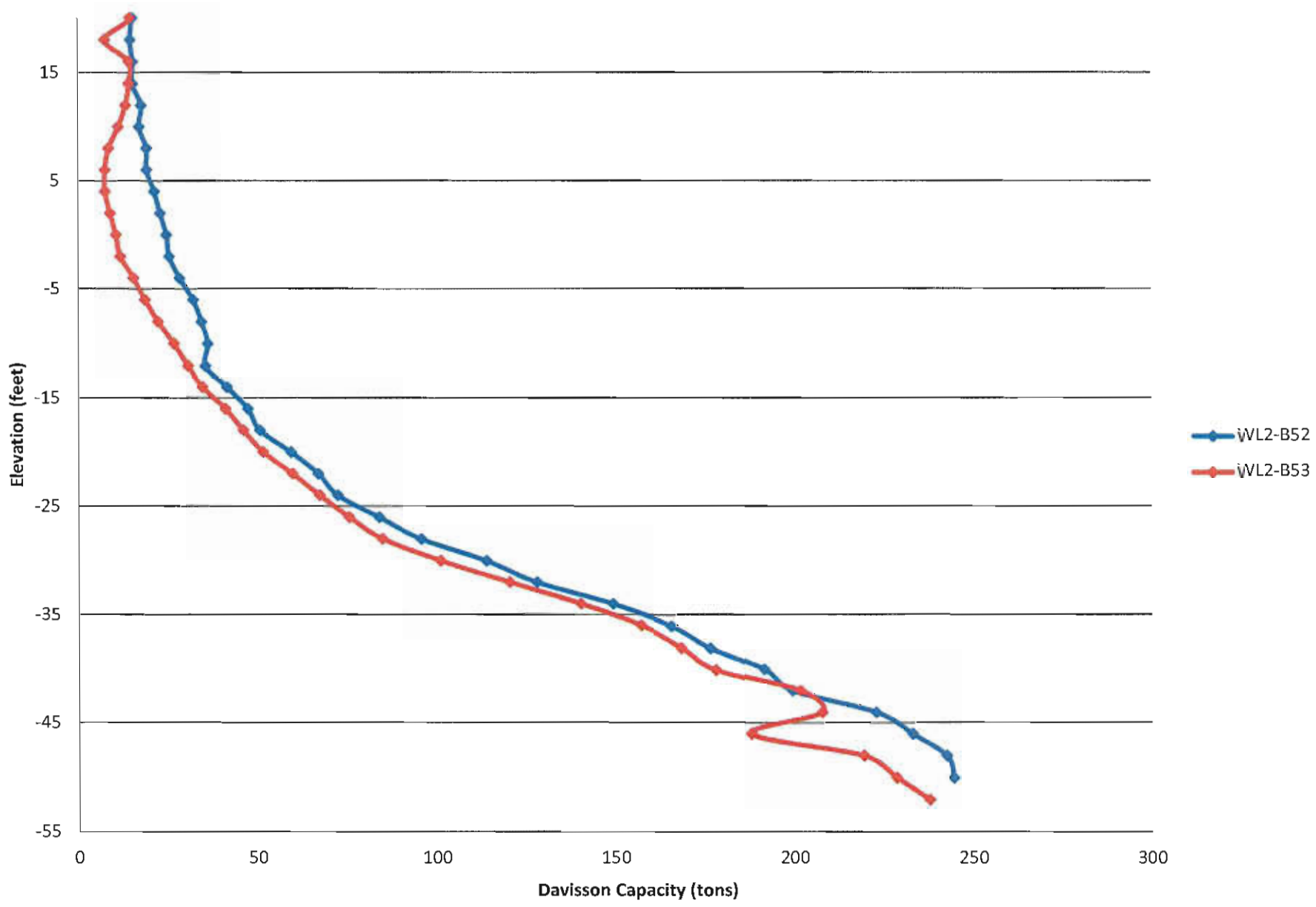
# Bent 29 - 18" PCP



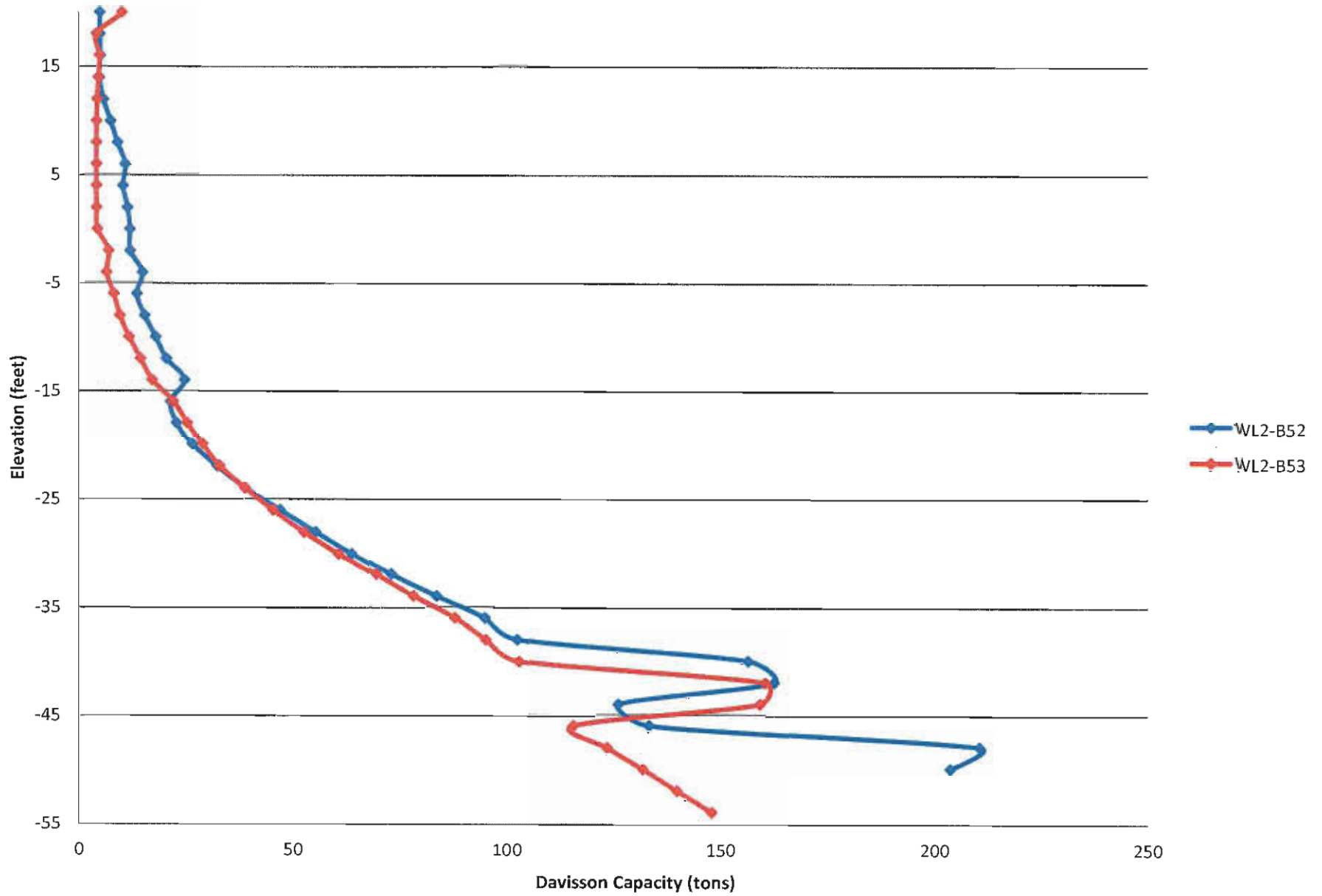
# Bent 29 - 24" PCP



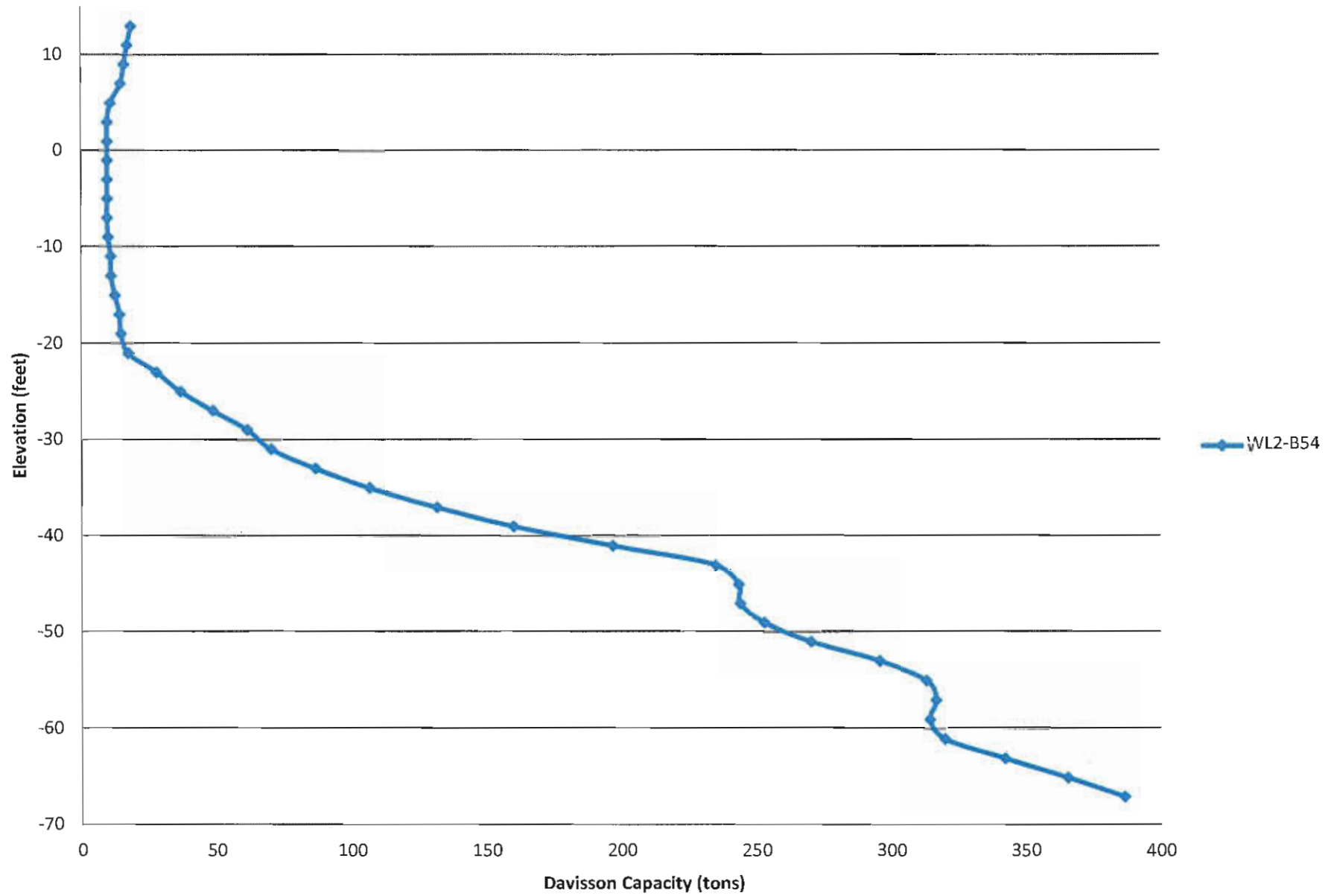
# Bent 29 - 20" Pipe Pile



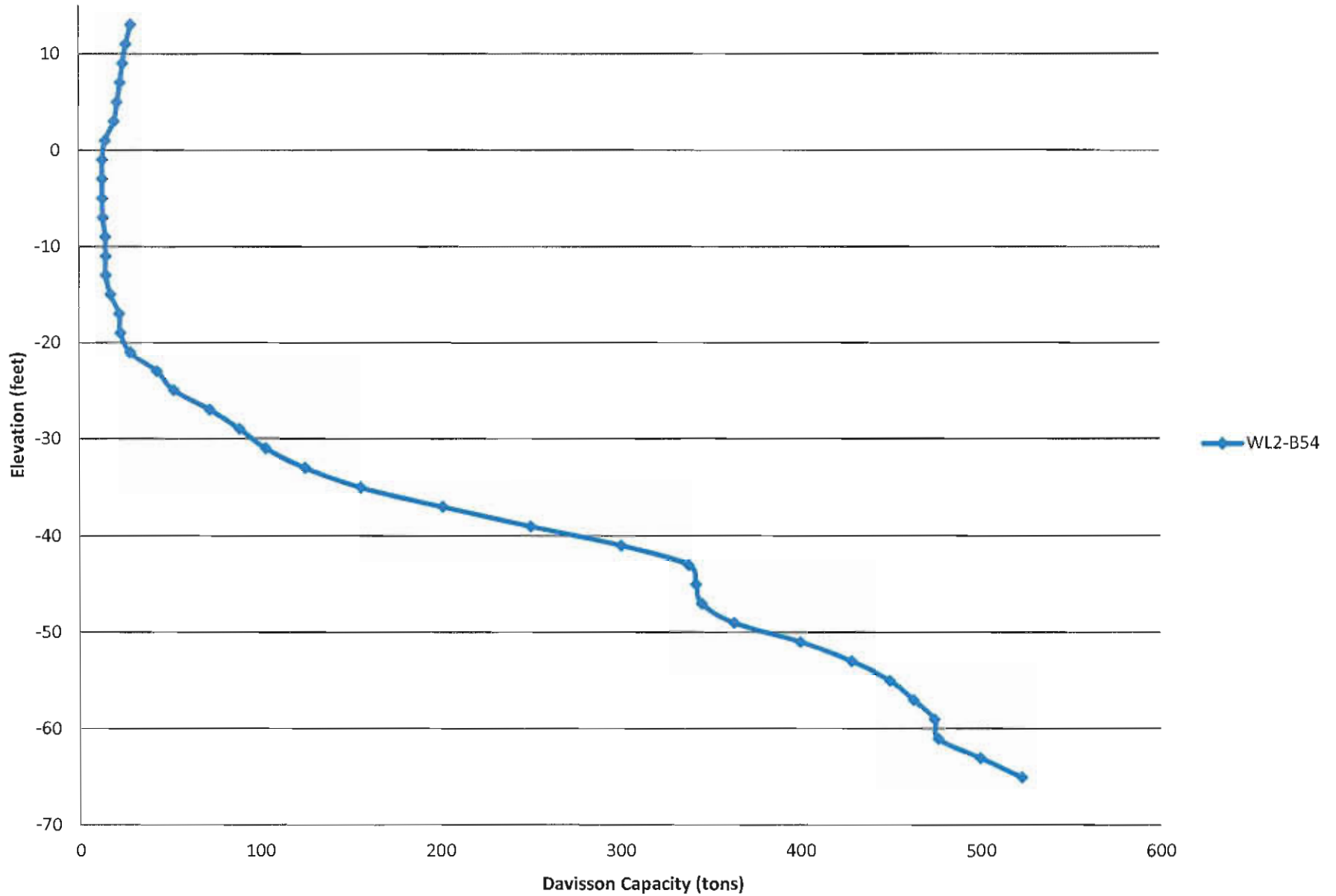
### Bent 29 - HP14x89



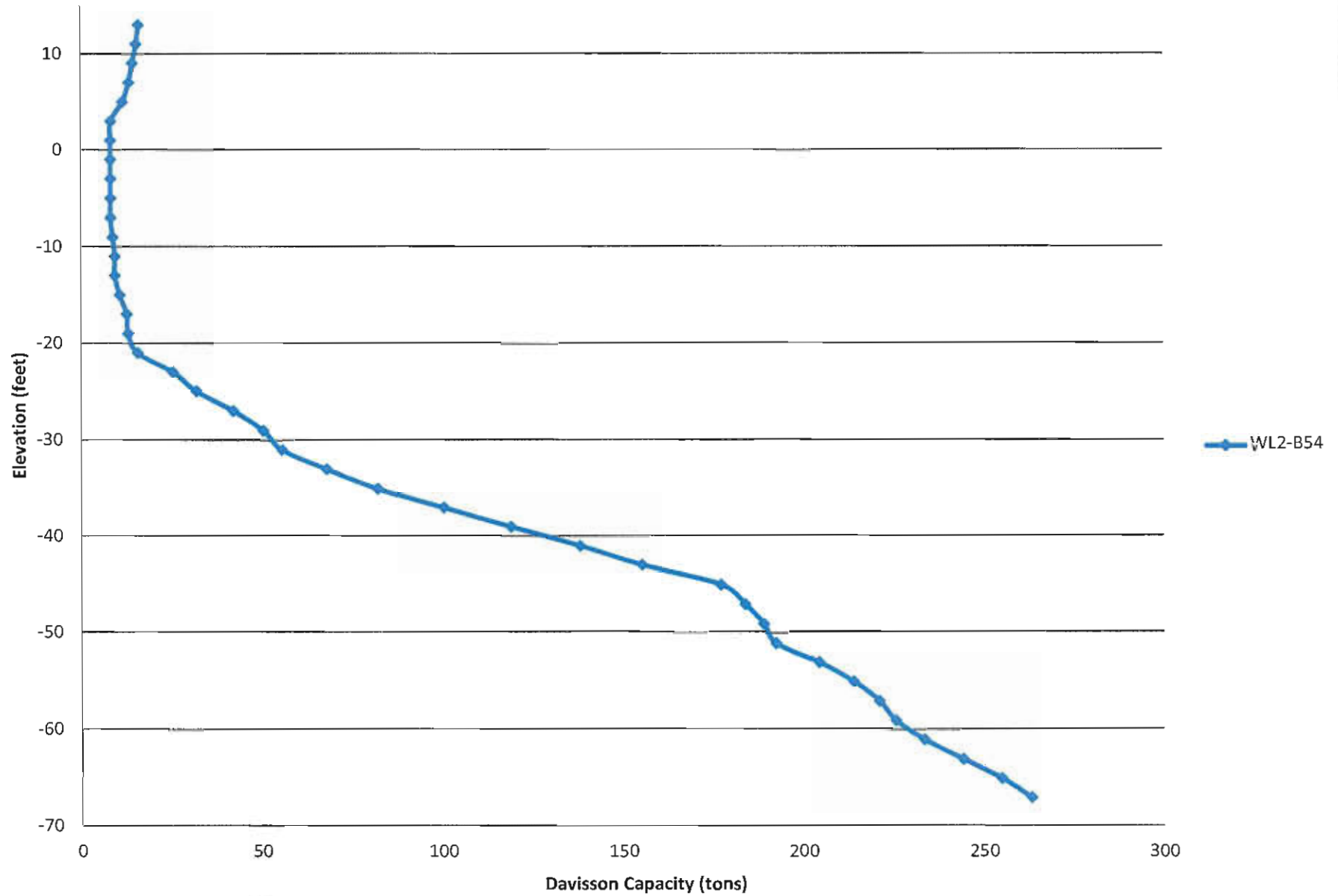
# Bent 30 - 18" PCP



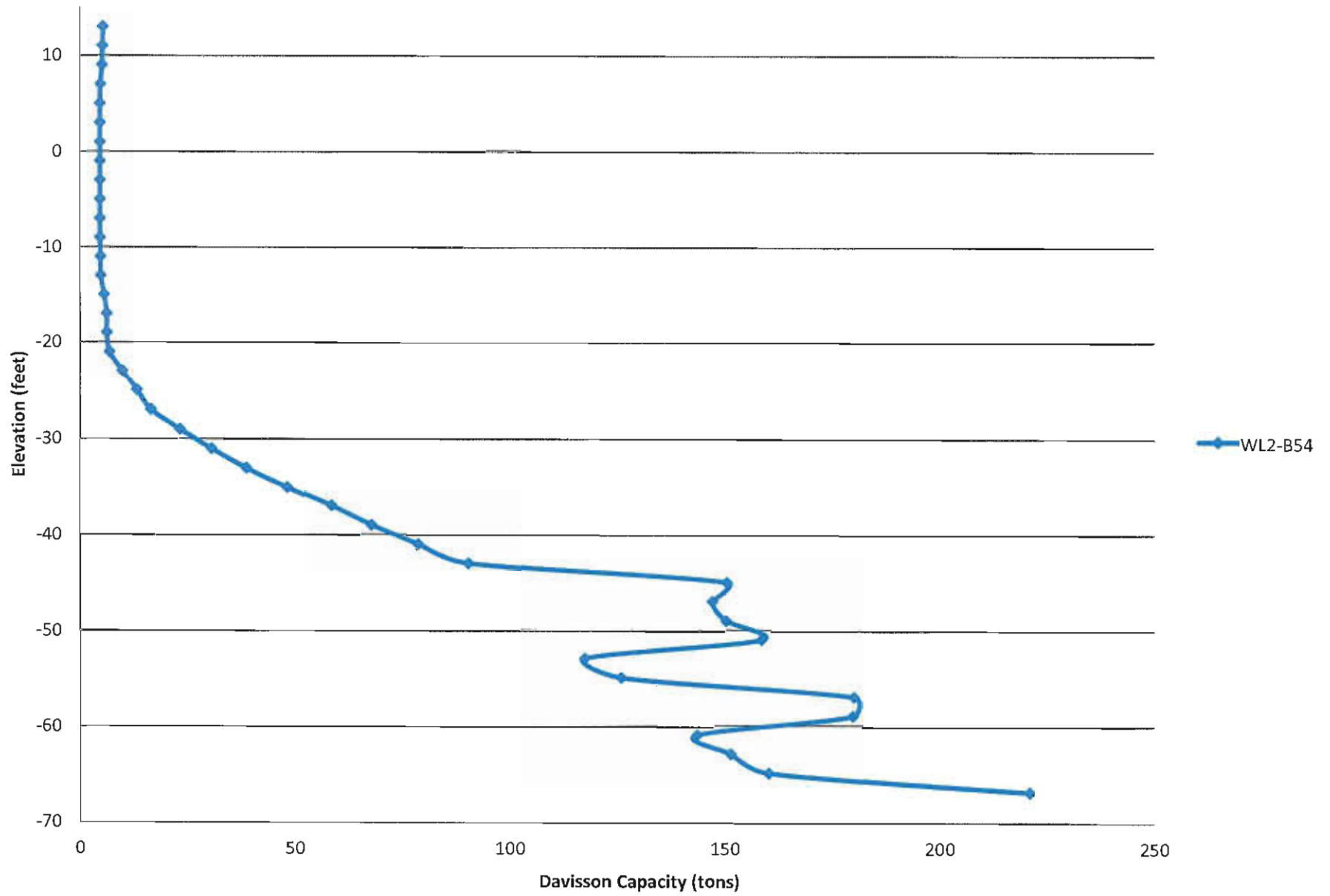
# Bent 30 - 24" PCP



# Bent 30 - 20" Pipe Pile

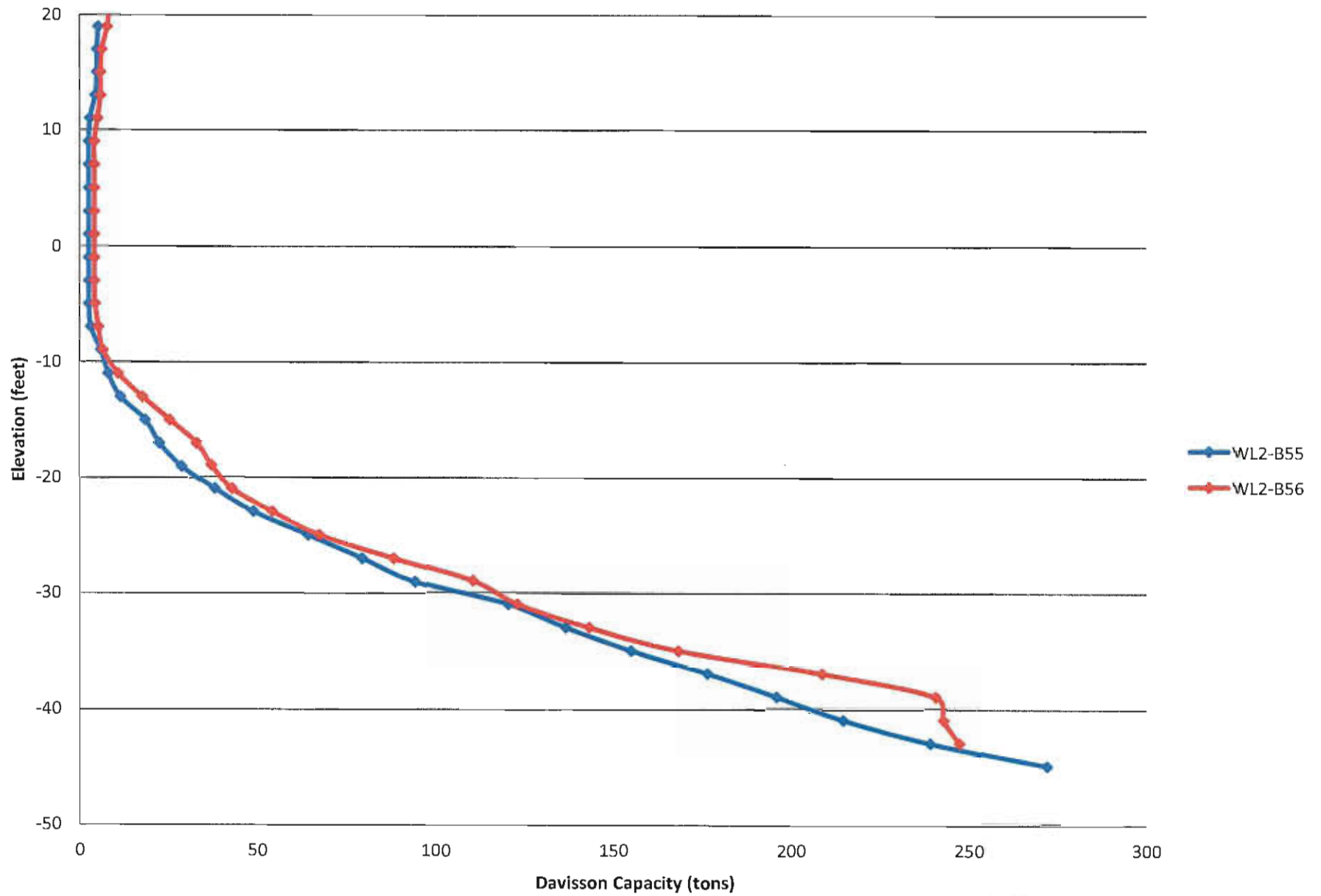


# Bent 30 - HP14x89

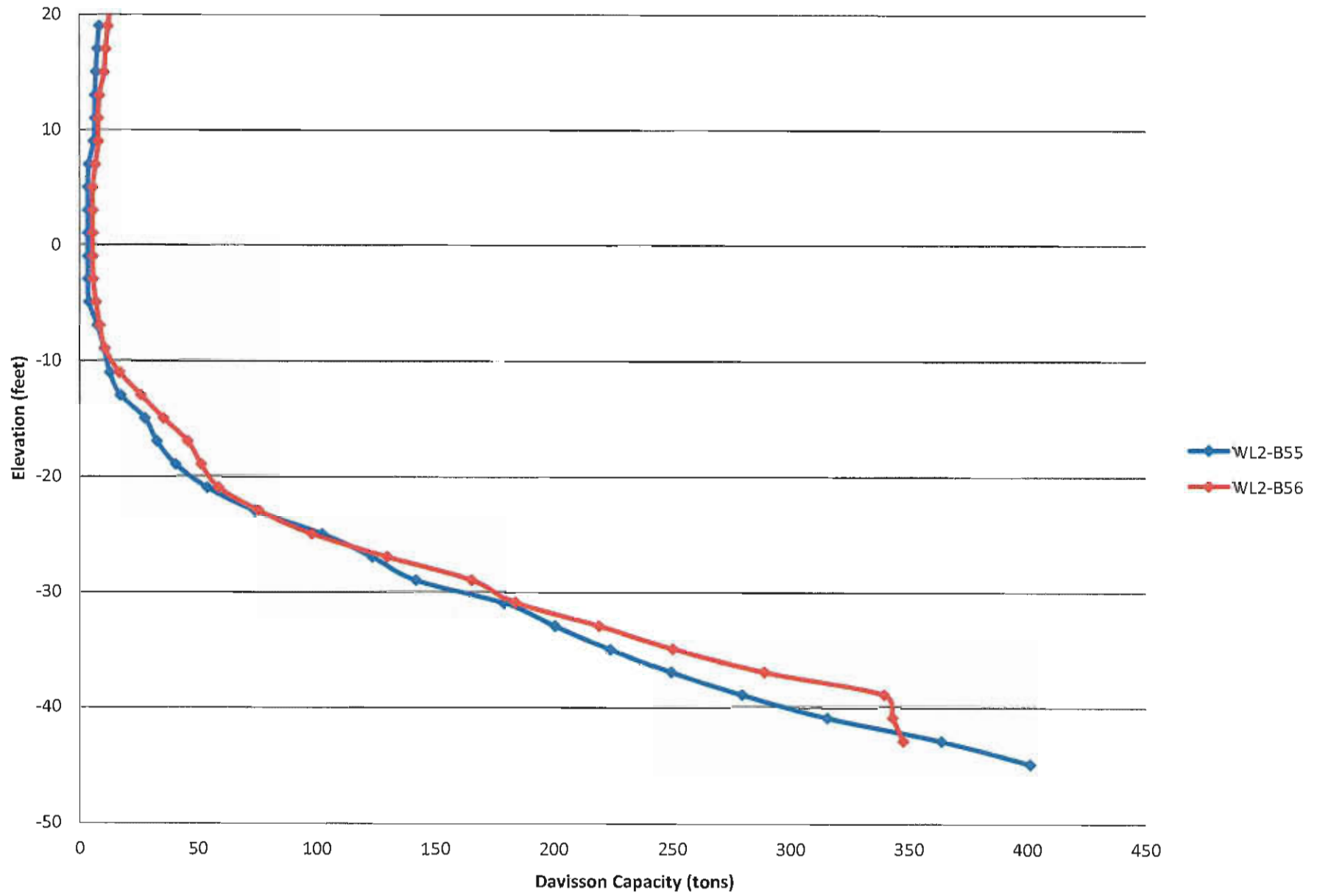




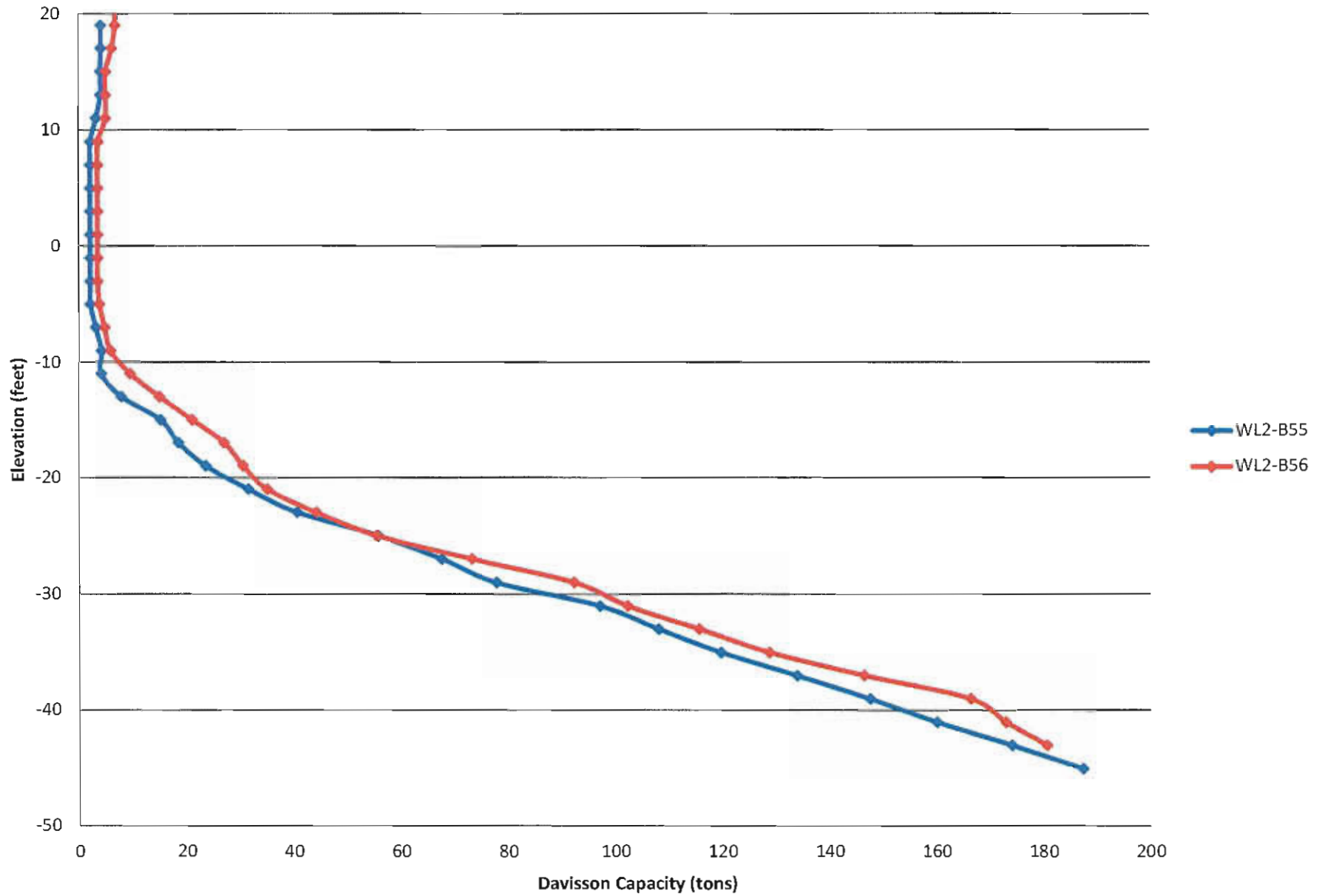
# Bent 31 - 18" PCP



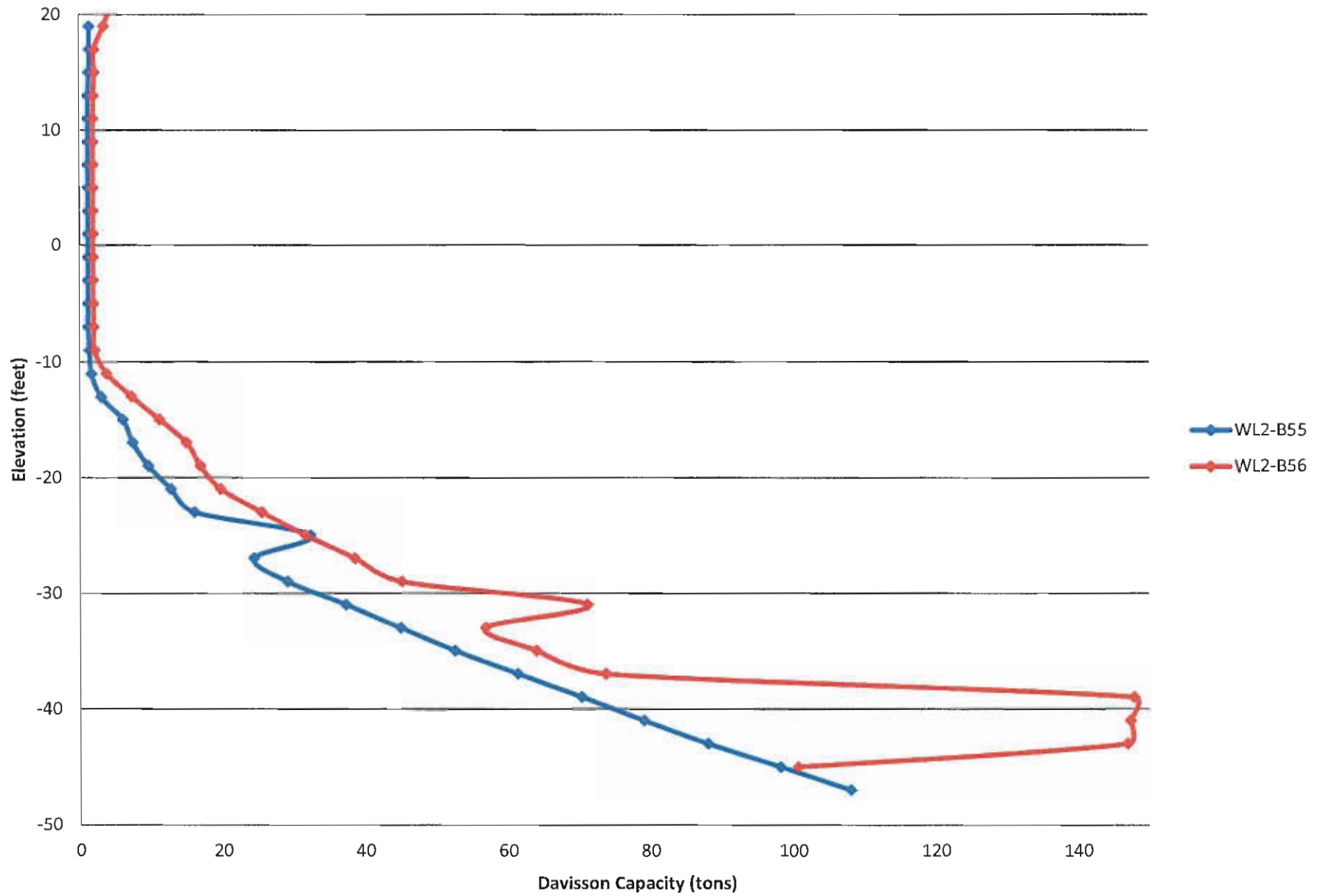
# Bent 31 - 24" PCP



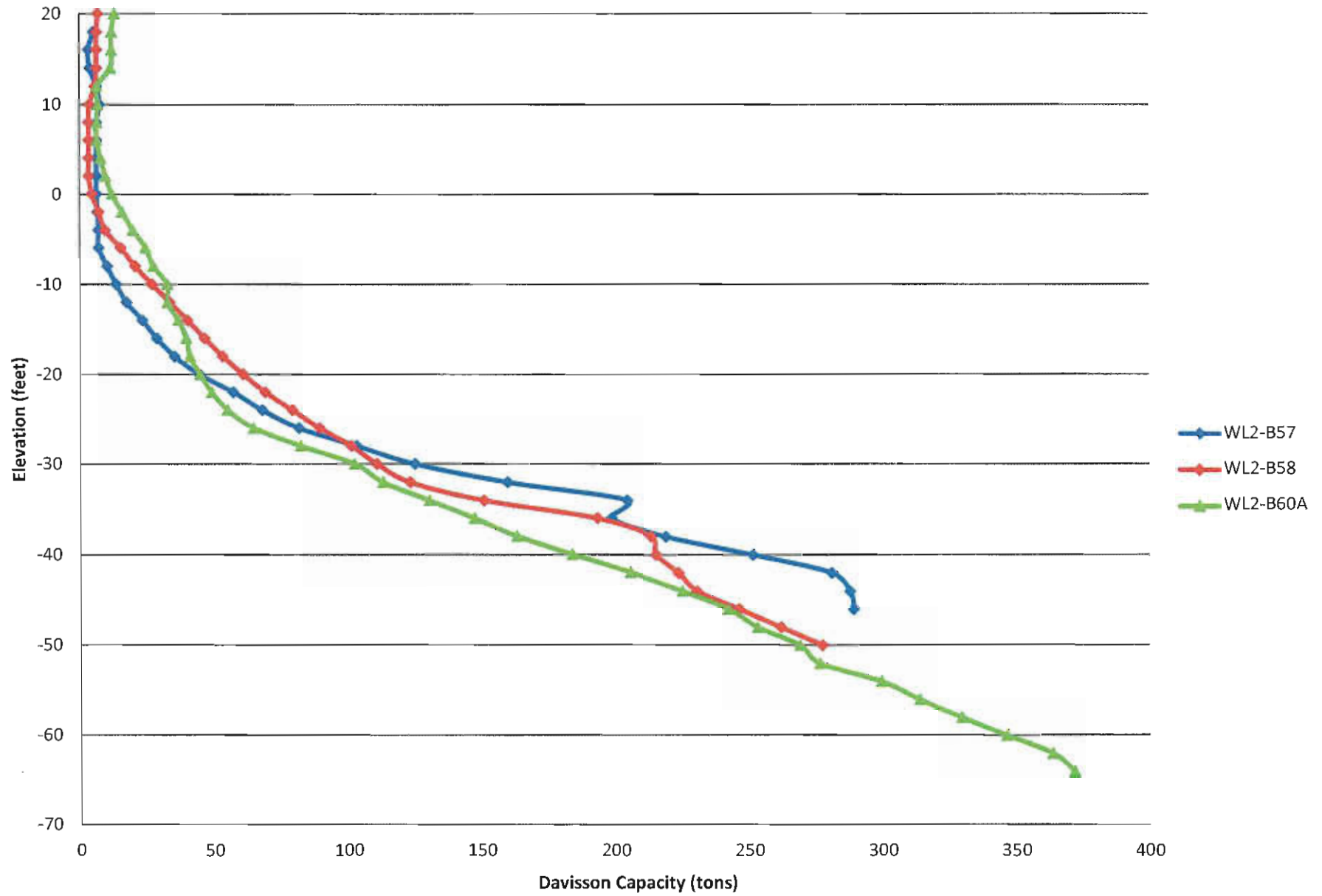
### Bent 31 - 20" Pipe Pile



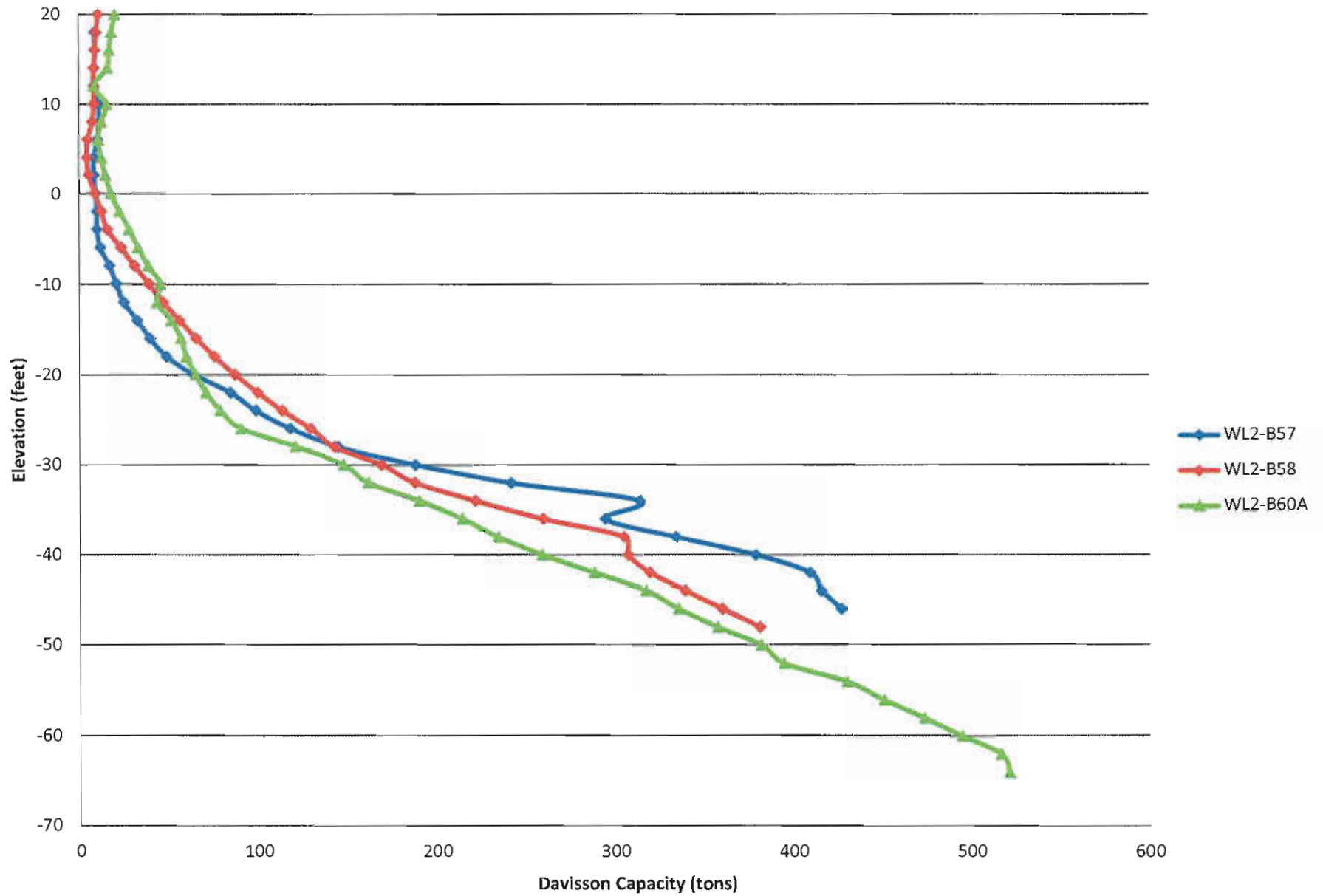
### Bent 31 - HP14x89



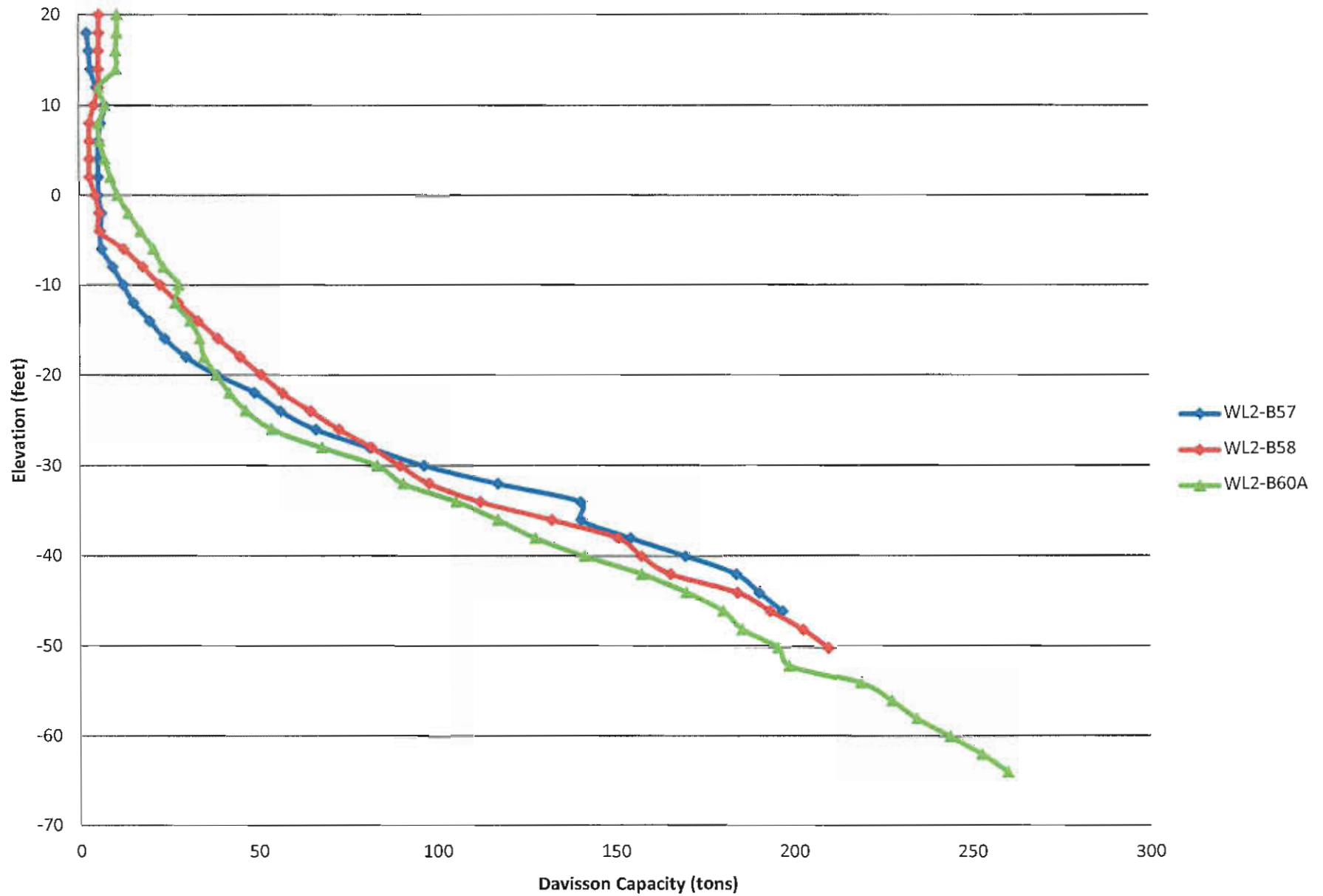
# Bent 32 - 18" PCP



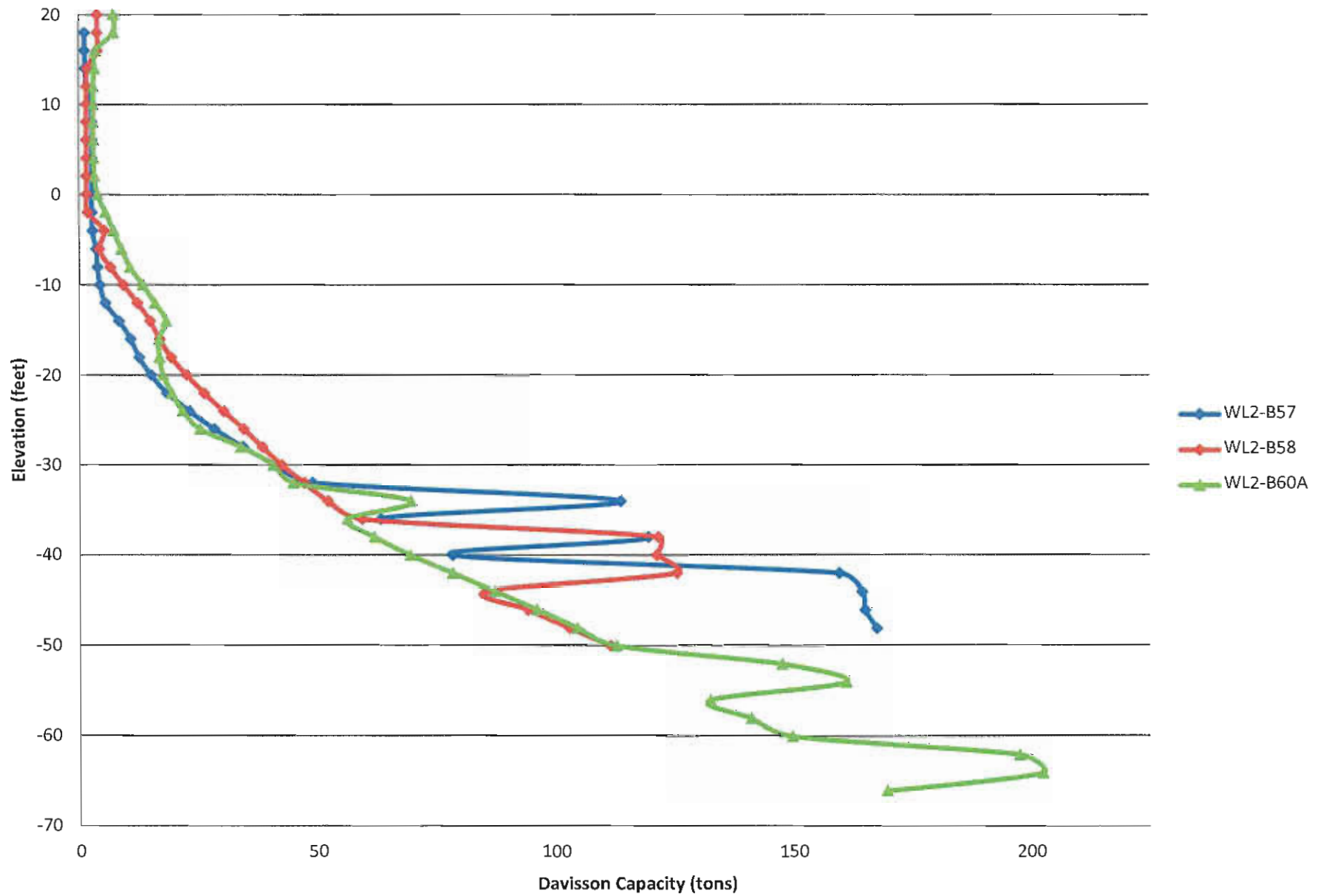
# Bent 32 - 24" PCP



### Bent 32 - 20" Pipe Pile

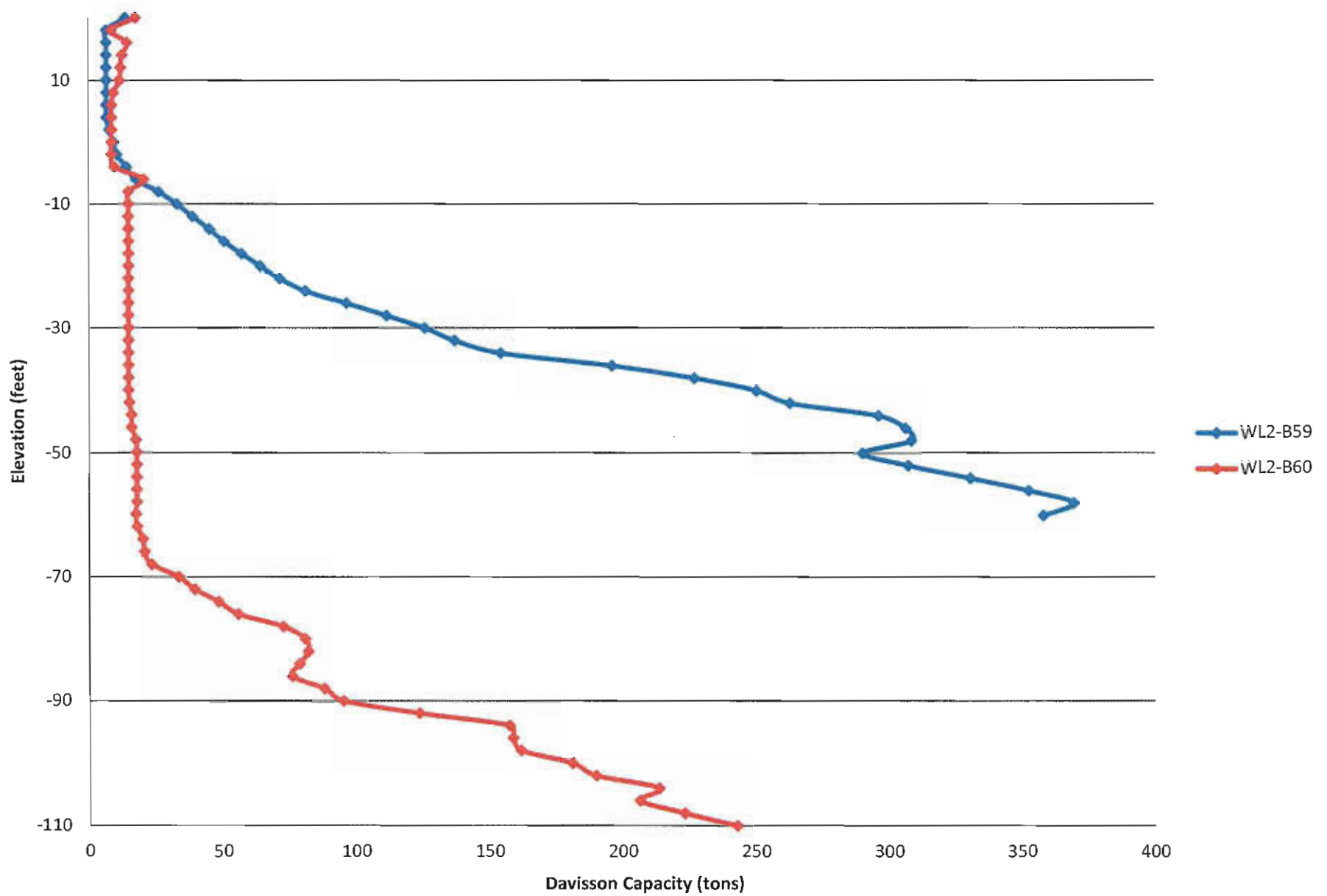


# Bent 32 - HP14x89

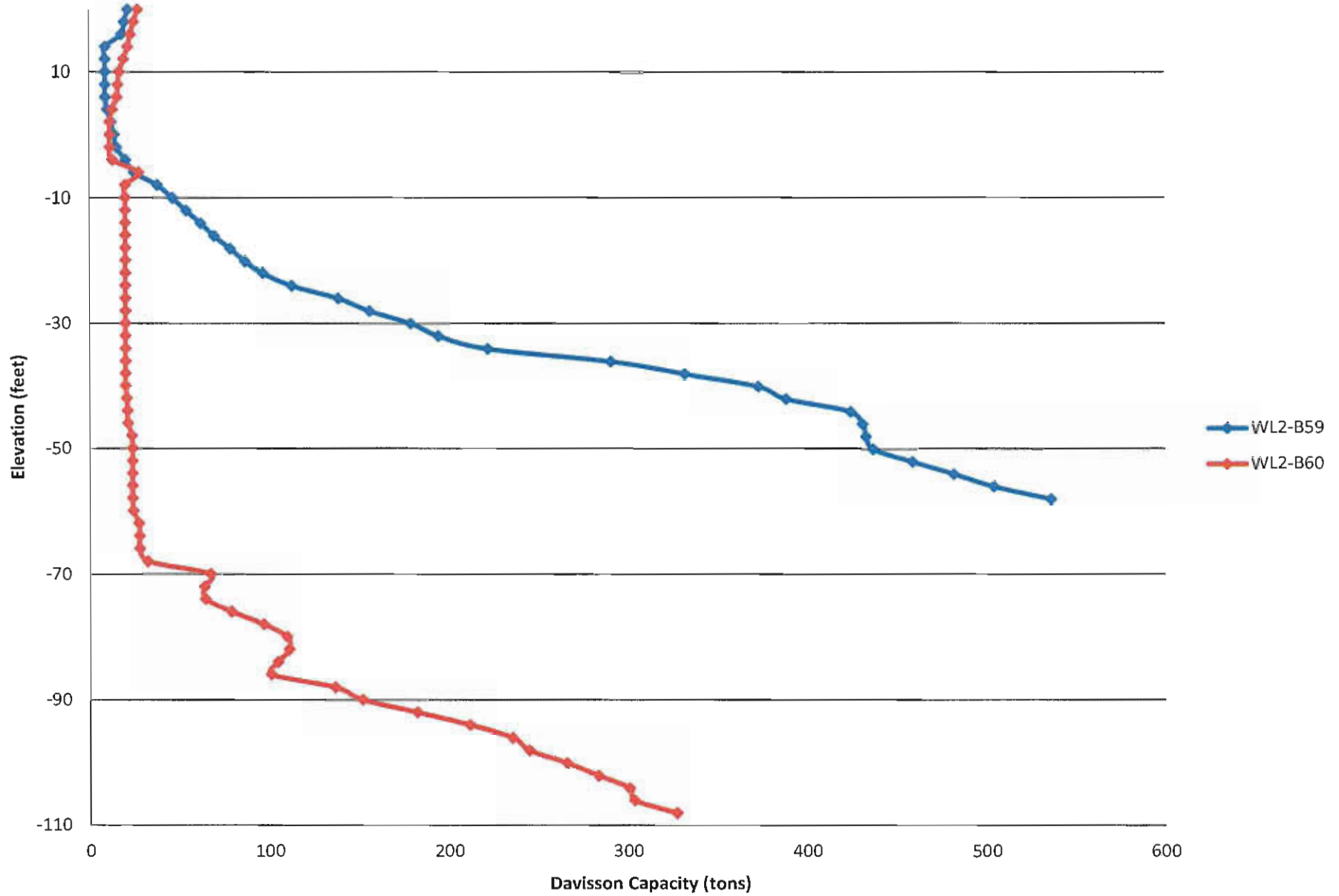




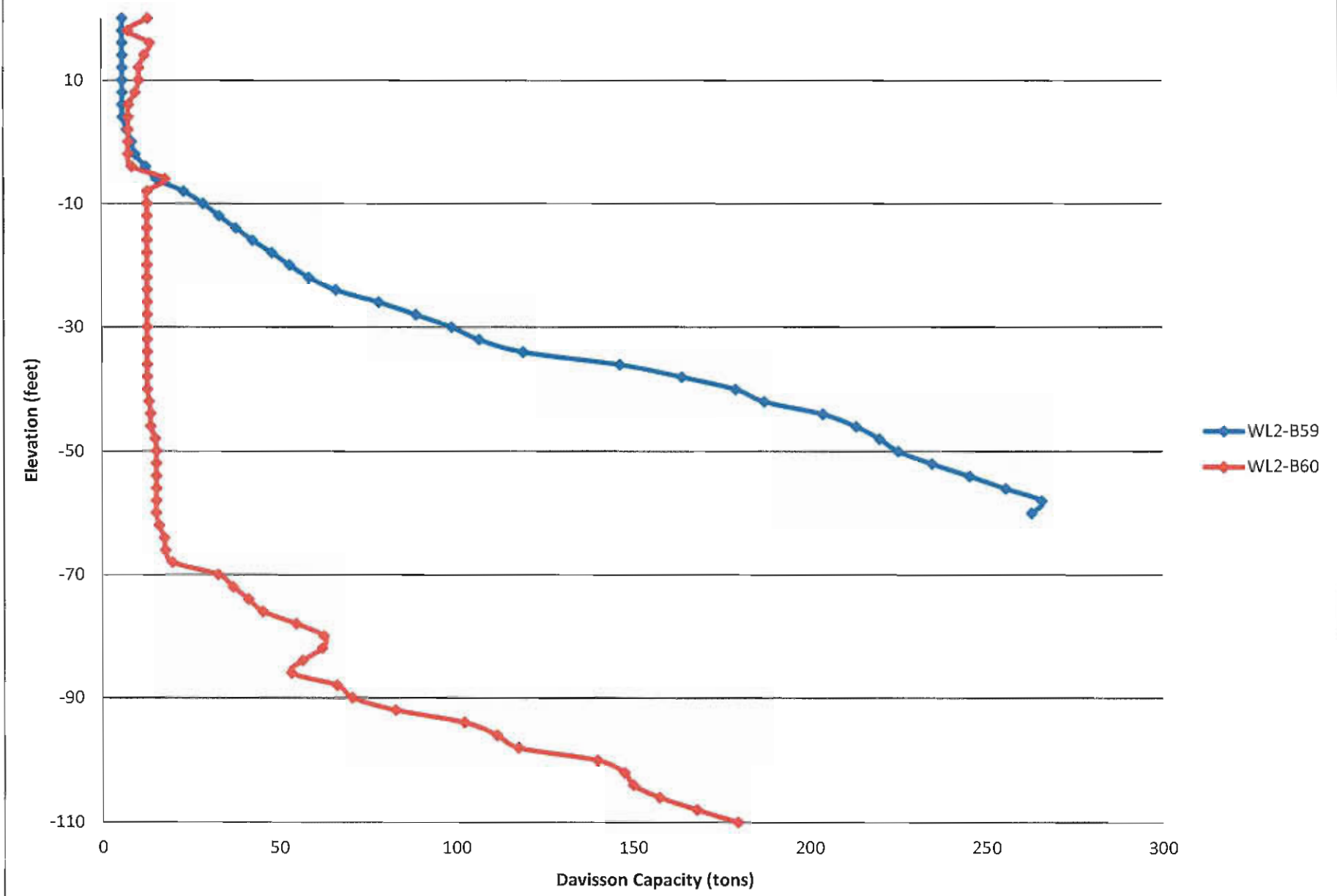
# Bent 33 - 18" PCP



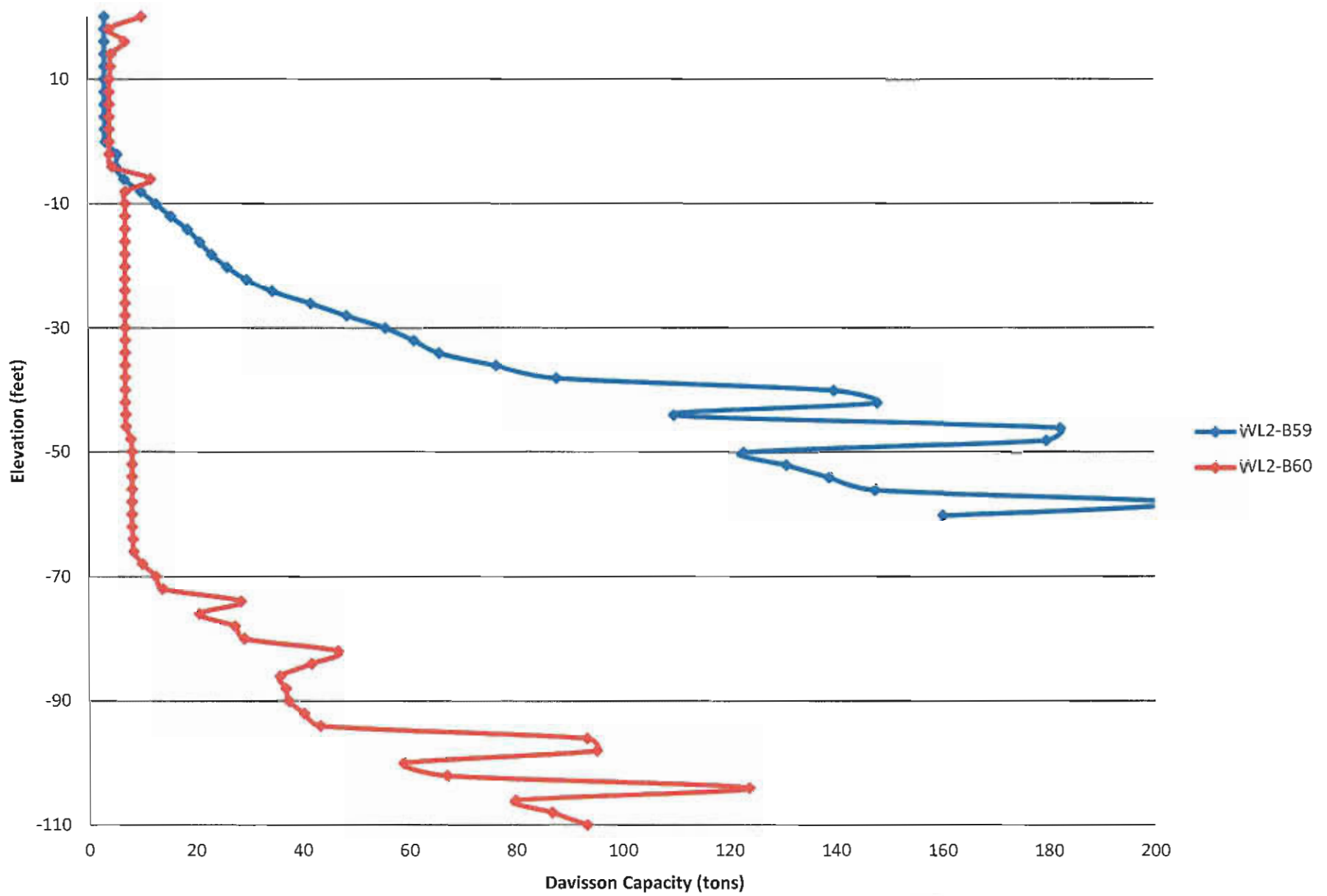
# Bent 33 - 24" PCP



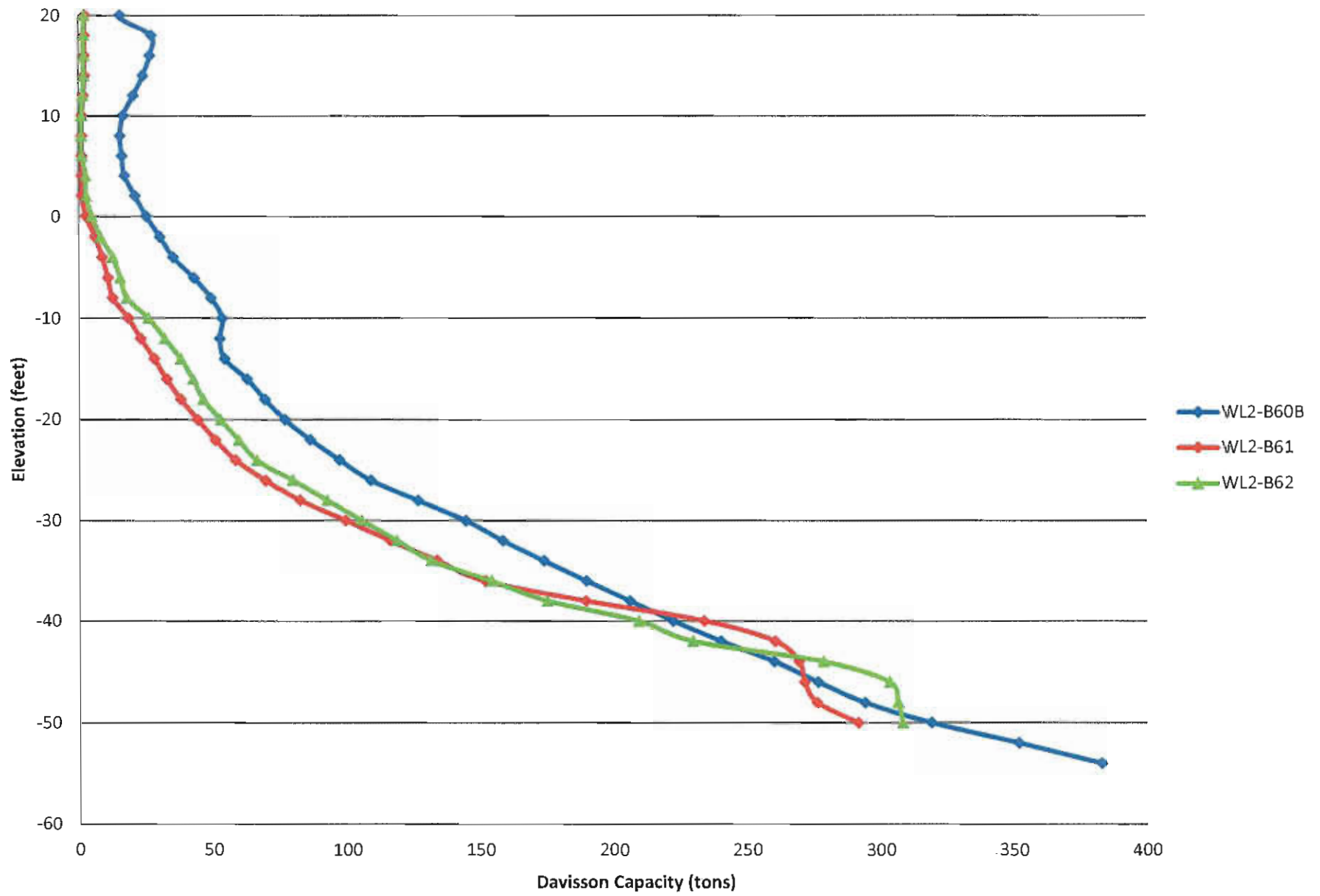
# Bent 33 - 20" Pipe Pile



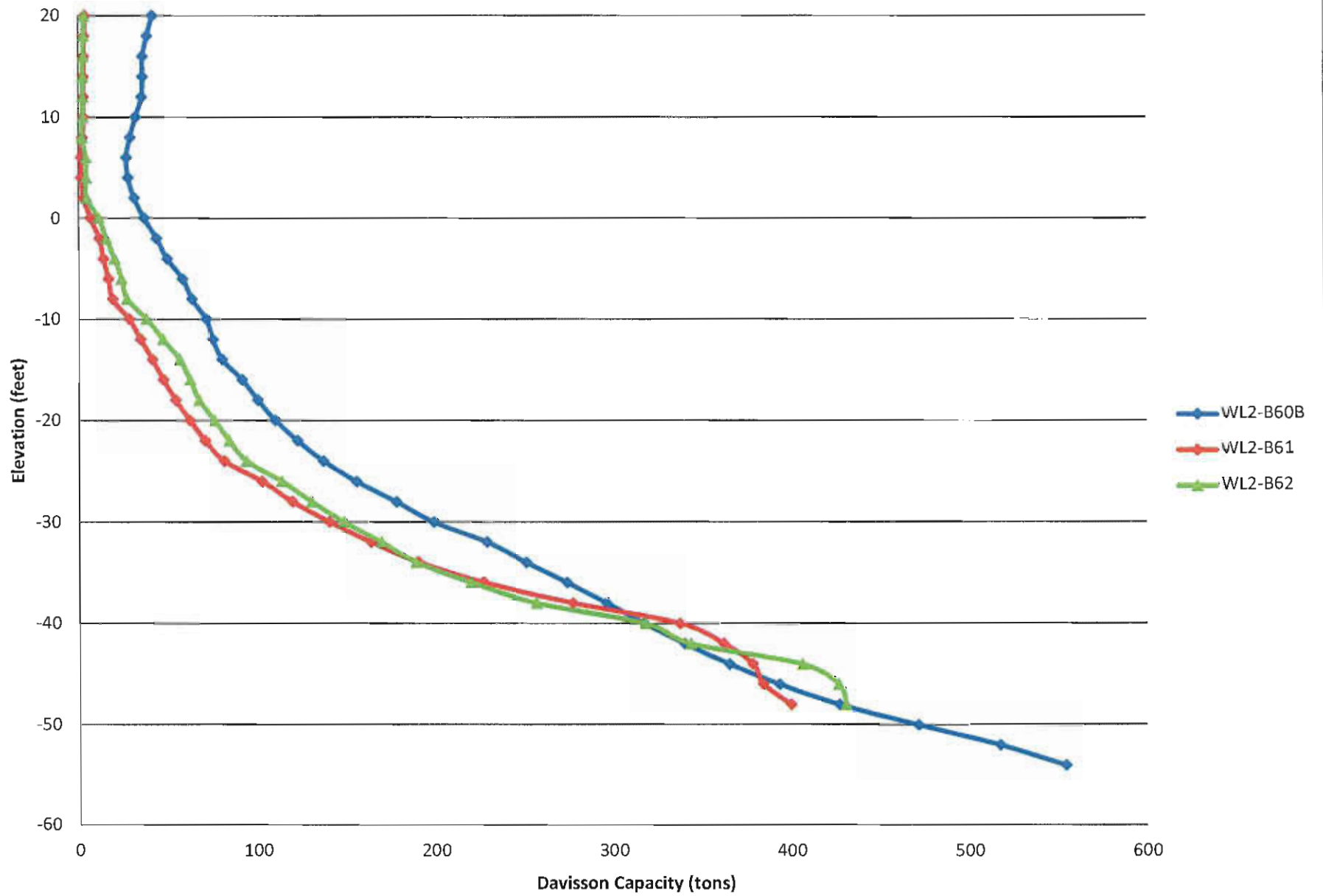
# Bent 33 - HP14x89



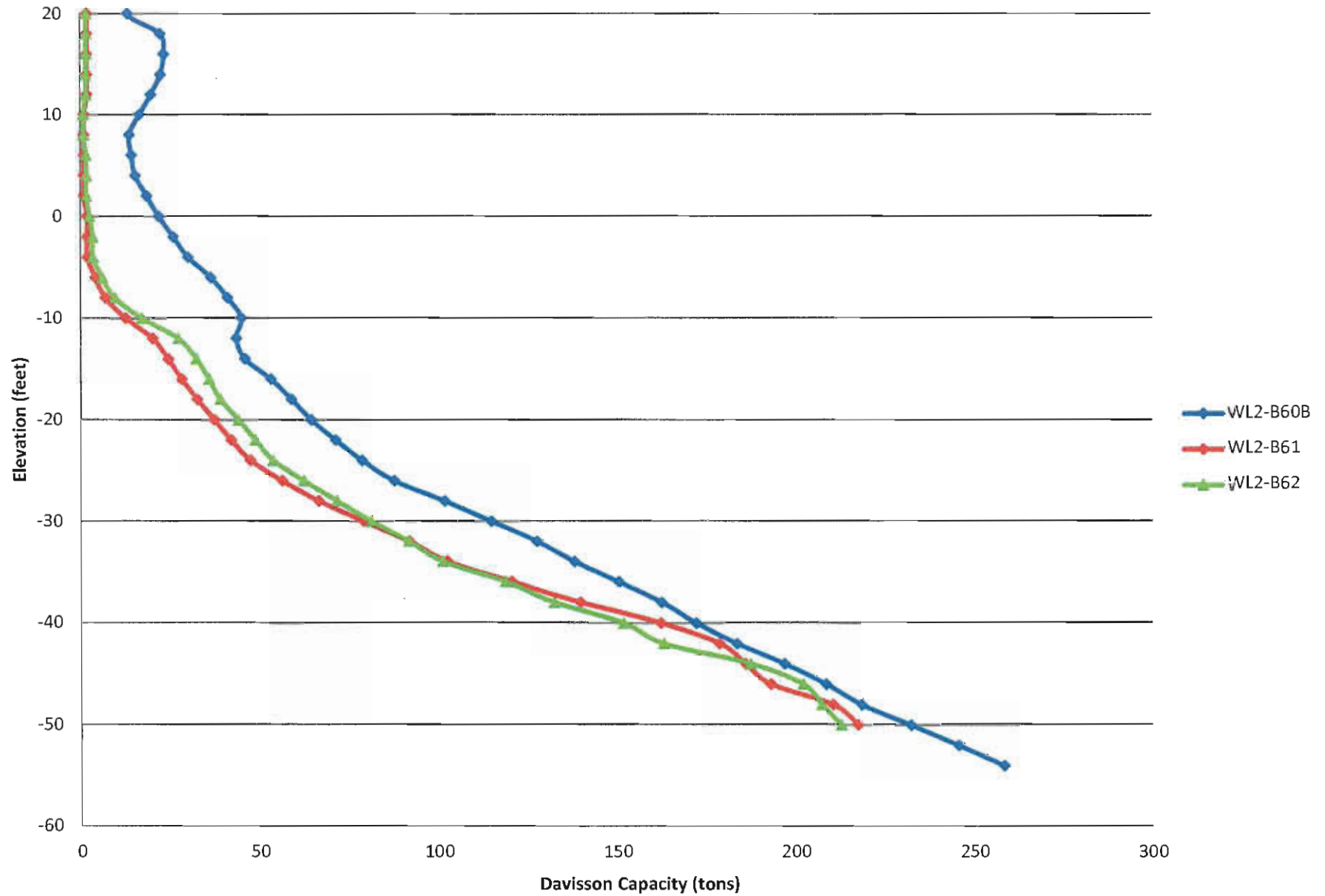
# Bent 34 - 18" PCP



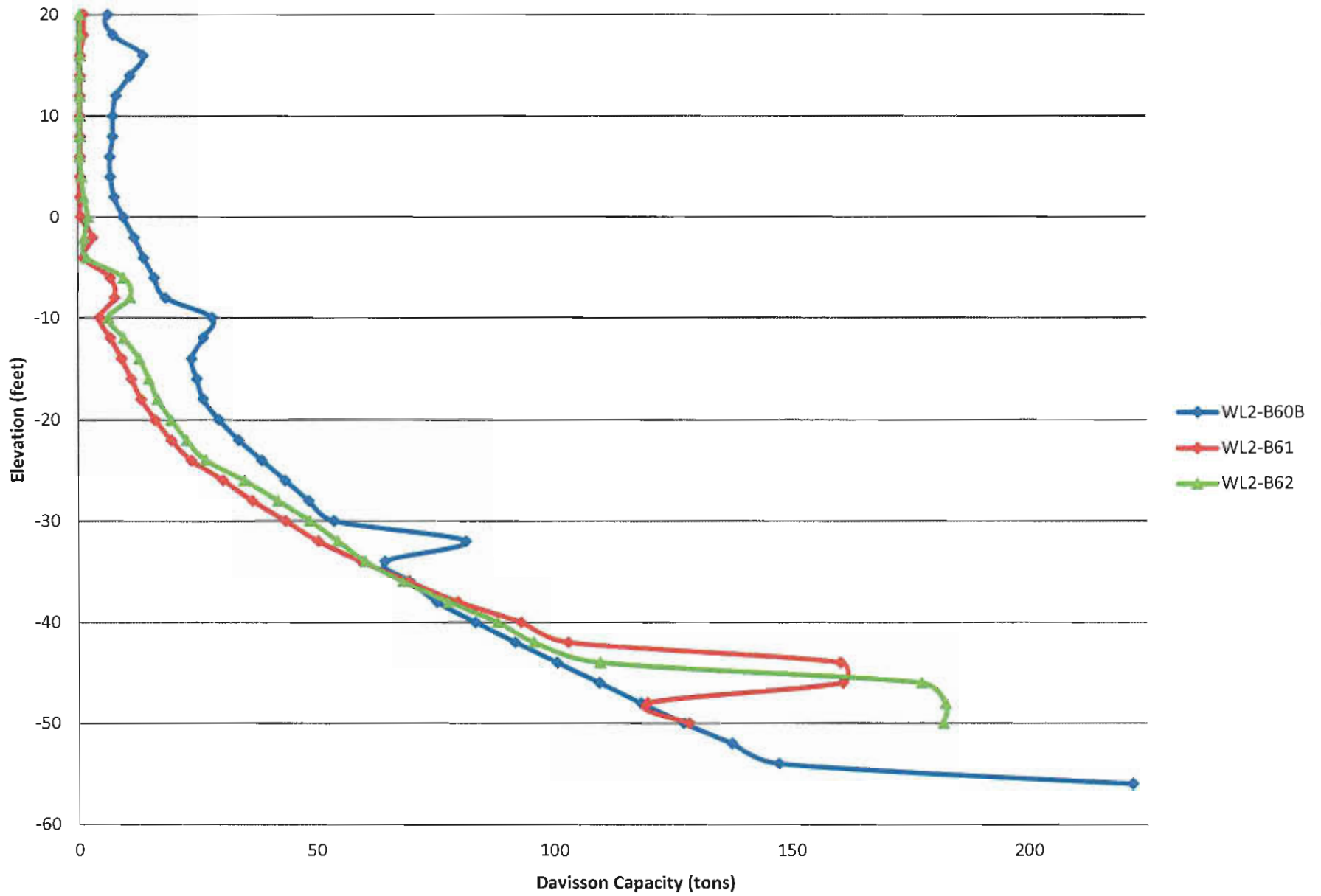
# Bent 34 - 24" PCP



# Bent 34 - 20" Pipe Pile

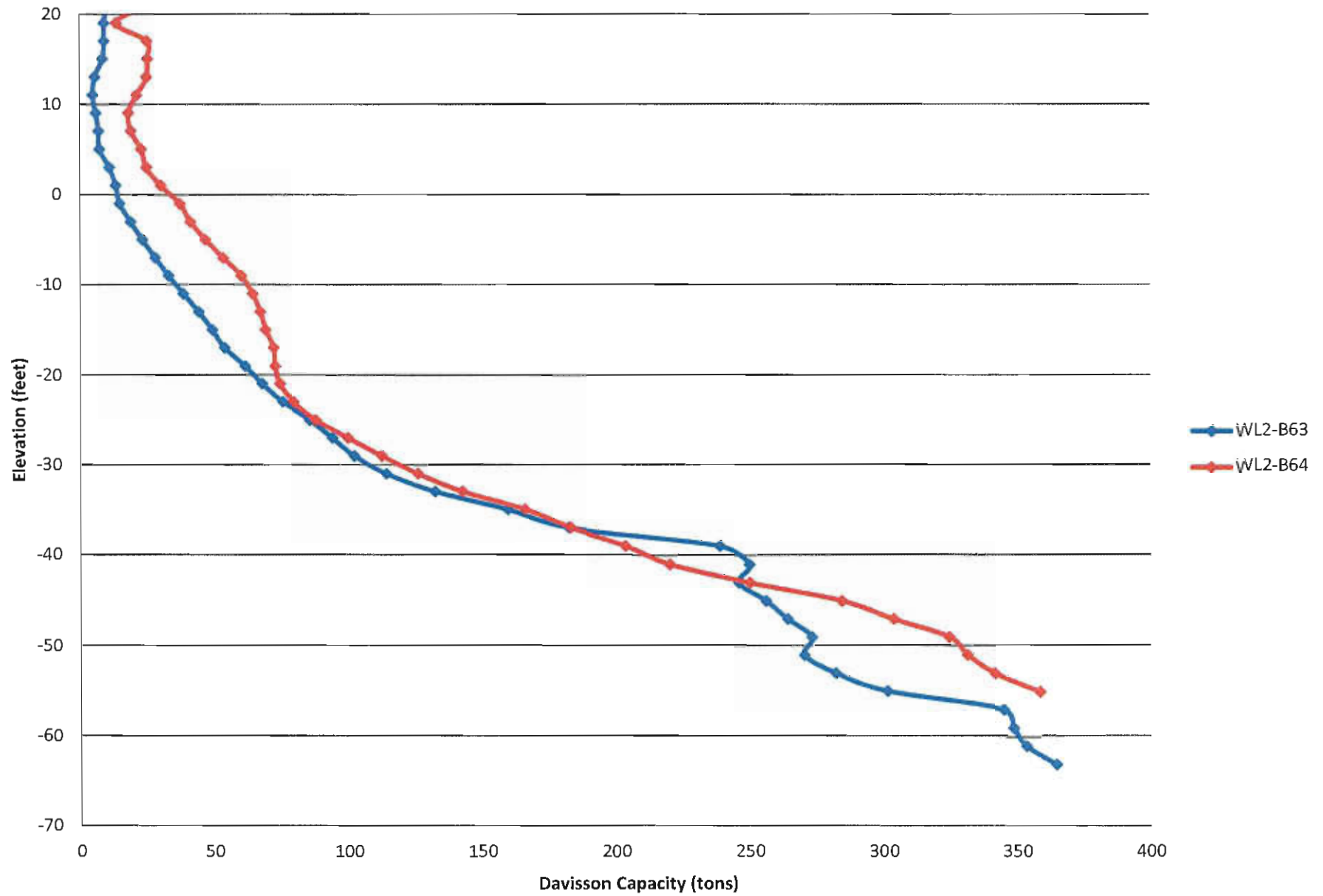


# Bent 34 - HP14x89

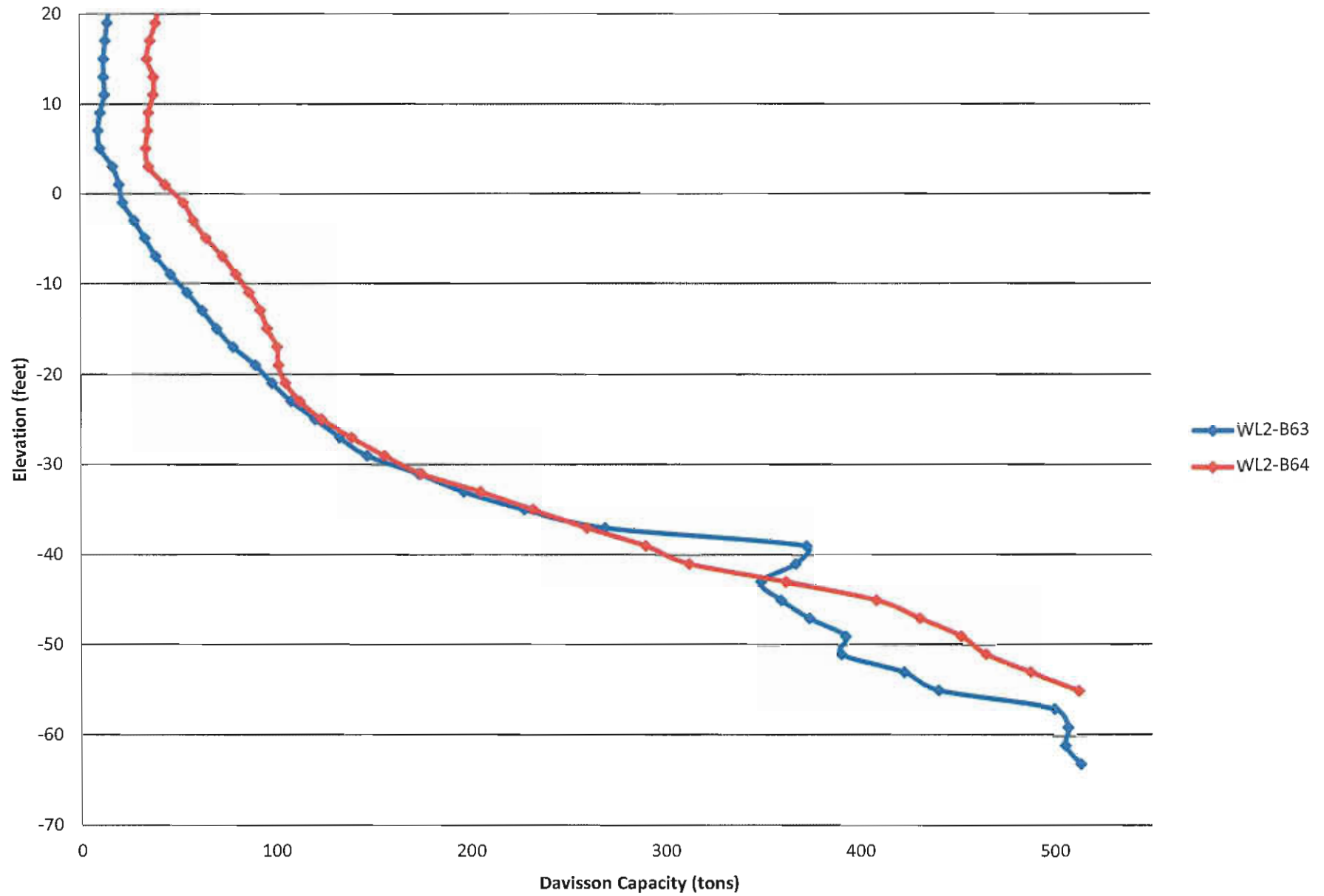




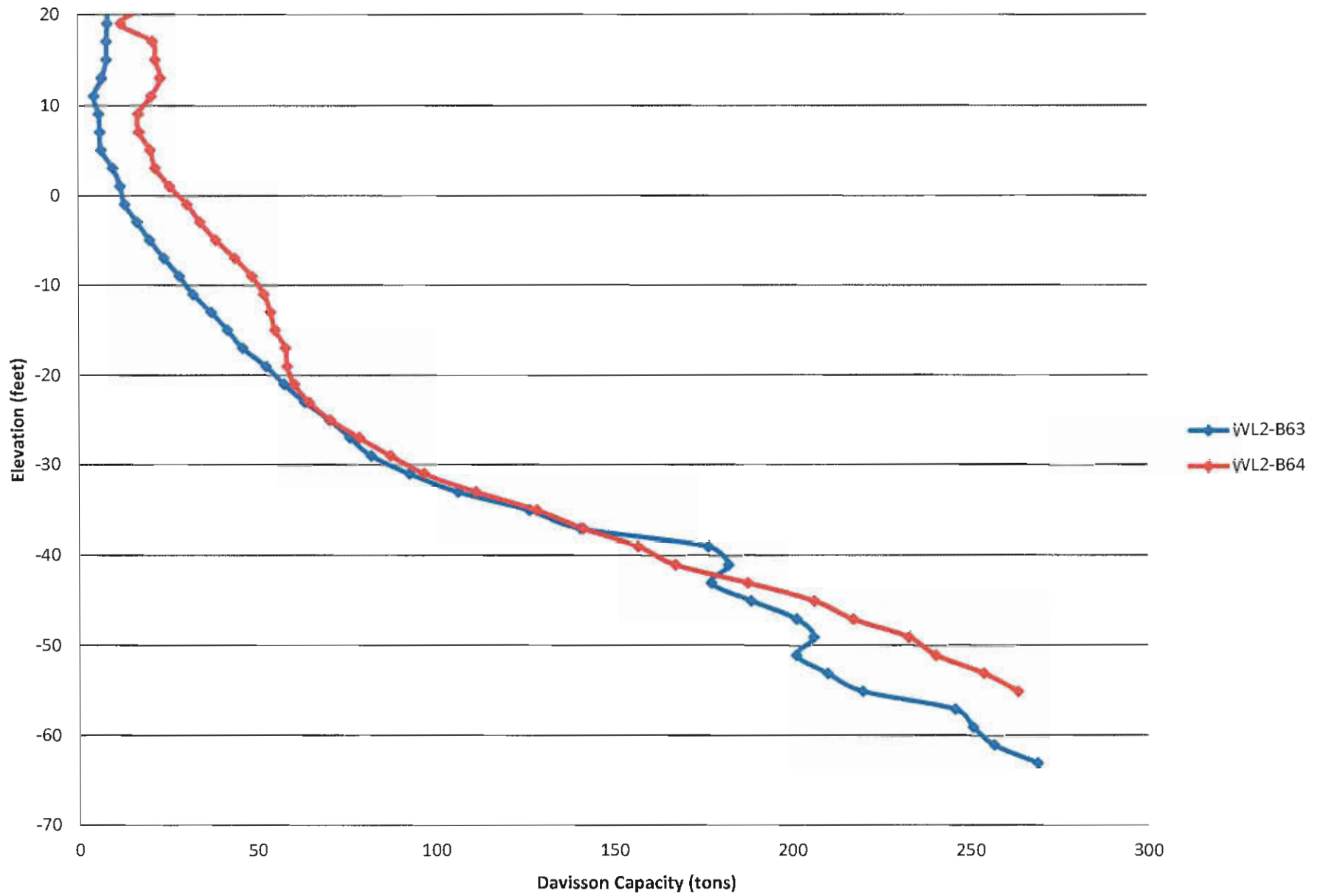
# Bent 35 - 18" PCP



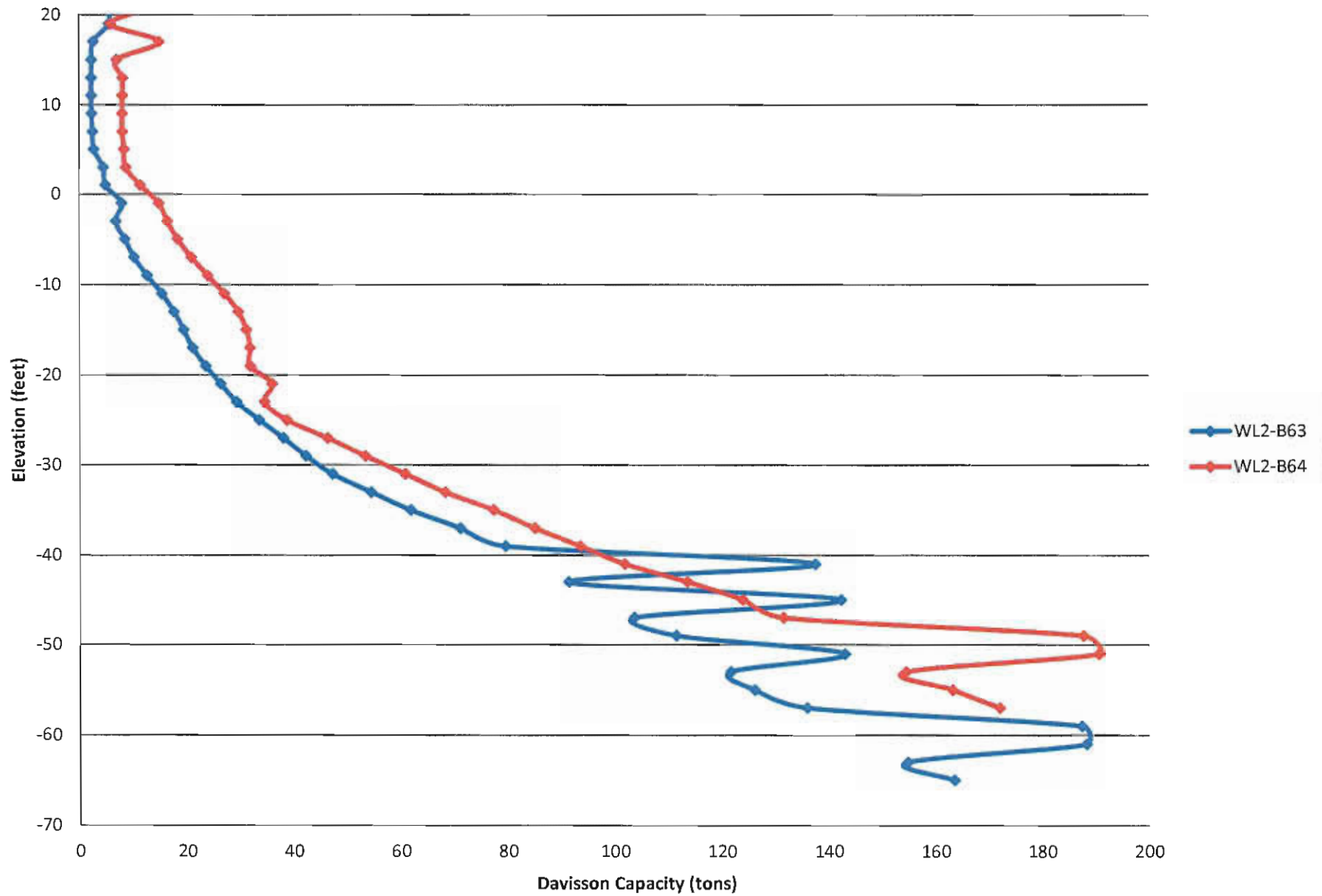
# Bent 35 - 24" PCP



# Bent 35 - 20" Pipe Pile



# Bent 35 - HP14x89



General Information:

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Input file: .....alculations-Analyses\FB-Deep\Wildlife No 2\WL2-B1\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 6-7-13, Boring Number: WL2-B1  
 Station number: 796+51 Offset: 121 LT

Ground Elevation: 38.800(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	5.00	3- Clean sand
2	2.00	5.00	3- Clean sand
3	4.00	10.00	3- Clean sand
4	5.00	3.00	2- Clay and silty sand
5	6.00	3.00	3- Clean sand
6	8.00	2.00	3- Clean sand
7	9.00	2.00	2- Clay and silty sand
8	10.00	8.00	3- Clean sand
9	12.50	5.00	3- Clean sand
10	15.00	5.00	3- Clean sand
11	17.50	4.00	2- Clay and silty sand
12	20.00	4.00	2- Clay and silty sand
13	22.50	3.00	2- Clay and silty sand
14	25.00	12.00	3- Clean sand
15	27.50	13.00	3- Clean sand
16	30.00	10.00	3- Clean sand
17	32.50	7.00	3- Clean sand

WL2-B1\_18-PCP.txt

18	35.00	0.00	2- Clay and silty sand
19	37.50	0.00	2- Clay and silty sand
20	40.00	0.00	2- Clay and silty sand
21	42.50	0.00	2- Clay and silty sand
22	43.75	0.00	3- Clean sand
23	45.00	99.00	2- Clay and silty sand
24	46.25	25.00	3- Clean sand
25	47.50	25.00	2- Clay and silty sand
26	48.75	25.00	3- Clean sand
27	50.00	99.00	2- Clay and silty sand
28	52.50	99.00	2- Clay and silty sand
29	55.00	99.00	2- Clay and silty sand
30	57.50	99.00	2- Clay and silty sand
31	60.00	99.00	2- Clay and silty sand
32	62.50	99.00	2- Clay and silty sand
33	65.00	99.00	2- Clay and silty sand
34	67.50	37.00	2- Clay and silty sand
35	70.00	99.00	2- Clay and silty sand
36	72.50	99.00	2- Clay and silty sand
37	75.00	99.00	2- Clay and silty sand
38	77.50	99.00	2- Clay and silty sand
39	80.00	99.00	2- Clay and silty sand
40	82.50	99.00	2- Clay and silty sand
41	85.00	99.00	2- Clay and silty sand
42	87.50	8.00	4- Lime Stone/Very shelly sand
43	90.00	5.00	4- Lime Stone/Very shelly sand
44	92.50	8.00	4- Lime Stone/Very shelly sand
45	95.00	7.00	4- Lime Stone/Very shelly sand
46	97.50	7.00	4- Lime Stone/Very shelly sand
47	100.00	12.00	4- Lime Stone/Very shelly sand
48	101.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	38.80	33.80	5.00	6.00	3-Clean Sand
2	33.80	32.80	1.00	3.00	2-Clay and Silty Sand
3	32.80	29.80	3.00	2.67	3-Clean Sand
4	29.80	28.80	1.00	2.00	2-Clay and Silty Sand
5	28.80	21.30	7.50	6.00	3-Clean Sand
6	21.30	13.80	7.50	3.67	2-Clay and Silty Sand

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7	13.80	3.80	10.00	10.50	3-Clean Sand
8	3.80	-4.95	8.75	0.00	2-Clay and Silty Sand
9	-4.95	-6.20	1.25	0.00	3-Clean Sand
10	-6.20	-7.45	1.25	99.00	2-Clay and Silty Sand
11	-7.45	-8.70	1.25	25.00	3-Clean Sand
12	-8.70	-9.95	1.25	25.00	2-Clay and Silty Sand
13	-9.95	-11.20	1.25	25.00	3-Clean Sand
14	-11.20	-48.70	37.50	94.87	2-Clay and Silty Sand
15	-48.70	-62.20	13.50	7.37	4-Limestone, Very
Shelly Sand					
16	-62.20	-62.20	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	28.80
18.00	12.00	26.80
18.00	14.00	24.80
18.00	16.00	22.80
18.00	18.00	20.80
18.00	20.00	18.80
18.00	22.00	16.80
18.00	24.00	14.80
18.00	26.00	12.80
18.00	28.00	10.80
18.00	30.00	8.80
18.00	32.00	6.80
18.00	34.00	4.80
18.00	36.00	2.80
18.00	38.00	0.80
18.00	40.00	-1.20
18.00	42.00	-3.20
18.00	44.00	-5.20
18.00	46.00	-7.20
18.00	48.00	-9.20
18.00	50.00	-11.20
18.00	52.00	-13.20
18.00	54.00	-15.20
18.00	56.00	-17.20
18.00	58.00	-19.20
18.00	60.00	-21.20

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18.00	62.00	-23.20
18.00	64.00	-25.20
18.00	66.00	-27.20
18.00	68.00	-29.20
18.00	70.00	-31.20
18.00	72.00	-33.20
18.00	74.00	-35.20
18.00	76.00	-37.20
18.00	78.00	-39.20
18.00	80.00	-41.20
18.00	82.00	-43.20
18.00	84.00	-45.20
18.00	86.00	-47.20
18.00	88.00	-49.20
18.00	90.00	-51.20
18.00	92.00	-53.20
18.00	94.00	-55.20
18.00	96.00	-57.20
18.00	98.00	-59.20
18.00	100.00	-61.20

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
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10.00	18.0	4.81	13.54	18.35	9.18	45.44
12.00	18.0	6.73	11.95	18.68	9.34	42.58
14.00	18.0	8.16	9.11	17.27	8.64	35.49
16.00	18.0	9.44	5.81	15.25	7.63	26.88
18.00	18.0	9.75	0.11	9.86	4.93	10.08
20.00	18.0	9.75	2.18	11.93	5.97	16.28
22.00	18.0	9.75	9.16	18.92	9.46	37.25
24.00	18.0	10.17	18.74	28.91	14.45	66.39
26.00	18.0	13.60	21.58	35.18	17.59	78.34
28.00	18.0	17.19	20.44	37.63	18.81	78.50
30.00	18.0	20.36	17.80	38.16	19.08	73.76
32.00	18.0	22.84	15.00	37.84	18.92	67.83
34.00	18.0	24.40	13.24	37.64	18.82	64.13
36.00	18.0	24.60	0.00	24.60	12.30	24.60
38.00	18.0	24.60	0.00	24.60	12.30	24.60
40.00	18.0	24.60	5.00	29.60	14.80	39.61



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42.00	18.0	24.60	18.67	43.27	21.63	80.60
44.00	18.0	24.78	29.85	54.63	27.32	114.33
46.00	18.0	35.27	35.40	70.67	35.34	141.48
48.00	18.0	45.62	42.99	88.61	44.31	174.60
50.00	18.0	56.17	72.00	128.17	64.09	272.17
52.00	18.0	71.88	72.00	143.88	71.94	287.88
54.00	18.0	87.59	72.00	159.59	79.80	303.59
56.00	18.0	103.30	72.00	175.30	87.65	319.30
58.00	18.0	119.01	72.00	191.01	95.51	335.01
60.00	18.0	134.72	71.98	206.70	103.35	350.66
62.00	18.0	150.43	70.37	220.80	110.40	361.53
64.00	18.0	166.14	68.15	234.29	117.14	370.58
66.00	18.0	181.82	68.15	249.96	124.98	386.26
68.00	18.0	197.30	69.51	266.81	133.40	405.82
70.00	18.0	212.89	70.24	283.12	141.56	423.59
72.00	18.0	228.59	70.24	298.83	149.41	439.30
74.00	18.0	244.30	70.24	314.54	157.27	455.01
76.00	18.0	260.01	70.24	330.25	165.12	470.72
78.00	18.0	275.72	70.38	346.10	173.05	486.85
80.00	18.0	291.43	71.38	362.81	181.41	505.58
82.00	18.0	307.14	67.64	374.78	187.39	510.06
84.00	18.0	322.85	58.50	381.34	190.67	498.34
86.00	18.0	337.11	48.86	385.97	192.98	483.69
88.00	18.0	341.53	22.10	363.63	181.81	407.83
90.00	18.0	342.45	22.16	364.61	182.30	408.93
92.00	18.0	343.34	22.44	365.78	182.89	410.65
94.00	18.0	344.36	23.52	367.88	183.94	414.91
96.00	18.0	*****	Not enough soil data	*****		
98.00	18.0	0.00	0.00	0.00	0.00	0.00
100.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....alculations-Analyses\FB-Deep\Wildlife No 2\WL2-B2\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 6-7-13, Boring Number: WL2-B2  
 Station number: 798+02 Offset: 73 LT

Ground Elevation: 43.700(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	4.00	3- Clean sand
2	2.00	4.00	3- Clean sand
3	3.00	4.00	2- Clay and silty sand
4	4.00	6.00	3- Clean sand
5	5.00	4.00	2- Clay and silty sand
6	6.00	4.00	3- Clean sand
7	7.00	4.00	2- Clay and silty sand
8	8.00	8.00	3- Clean sand
9	10.00	11.00	3- Clean sand
10	12.50	13.00	3- Clean sand
11	15.00	8.00	2- Clay and silty sand
12	17.50	11.00	2- Clay and silty sand
13	20.00	6.00	2- Clay and silty sand
14	22.50	7.00	2- Clay and silty sand
15	23.75	4.00	3- Clean sand
16	25.00	4.00	2- Clay and silty sand
17	27.50	4.00	2- Clay and silty sand

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18	28.75	4.00	3- Clean sand
19	30.00	6.00	2- Clay and silty sand
20	32.50	9.00	2- Clay and silty sand
21	35.00	10.00	2- Clay and silty sand
22	37.50	18.00	2- Clay and silty sand
23	40.00	10.00	2- Clay and silty sand
24	42.50	11.00	2- Clay and silty sand
25	43.75	4.00	3- Clean sand
26	45.00	4.00	2- Clay and silty sand
27	47.50	0.00	1- Plastic Clay
28	48.75	0.00	2- Clay and silty sand
29	50.00	5.00	1- Plastic Clay
30	52.50	2.00	2- Clay and silty sand
31	55.00	0.00	2- Clay and silty sand
32	57.50	2.00	2- Clay and silty sand
33	60.00	0.00	2- Clay and silty sand
34	62.50	2.00	2- Clay and silty sand
35	65.00	1.00	2- Clay and silty sand
36	67.50	2.00	2- Clay and silty sand
37	70.00	0.00	3- Clean sand
38	72.50	0.00	3- Clean sand
39	75.00	1.00	3- Clean sand
40	77.50	0.00	2- Clay and silty sand
41	80.00	0.00	2- Clay and silty sand
42	82.50	1.00	2- Clay and silty sand
43	83.75	1.00	3- Clean sand
44	85.00	99.00	2- Clay and silty sand
45	87.50	99.00	2- Clay and silty sand
46	90.00	99.00	2- Clay and silty sand
47	91.25	1.00	3- Clean sand
48	92.50	1.00	2- Clay and silty sand
49	95.00	4.00	4- Lime Stone/Very shelly sand
50	96.25	4.00	3- Clean sand
51	97.50	10.00	4- Lime Stone/Very shelly sand
52	100.00	12.00	4- Lime Stone/Very shelly sand
53	102.50	14.00	4- Lime Stone/Very shelly sand
54	103.75	14.00	3- Clean sand
55	105.00	99.00	4- Lime Stone/Very shelly sand
56	107.50	99.00	4- Lime Stone/Very shelly sand
57	110.00	99.00	4- Lime Stone/Very shelly sand
58	112.50	99.00	4- Lime Stone/Very shelly sand
59	115.00	48.00	4- Lime Stone/Very shelly sand
60	117.50	55.00	4- Lime Stone/Very shelly sand
61	120.00	73.00	4- Lime Stone/Very shelly sand
62	121.00	0.00	5- Cavity layer

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Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	43.70	40.70	3.00	4.00	3-Clean Sand
2	40.70	39.70	1.00	4.00	2-Clay and Silty Sand
3	39.70	38.70	1.00	6.00	3-Clean Sand
4	38.70	37.70	1.00	4.00	2-Clay and Silty Sand
5	37.70	36.70	1.00	4.00	3-Clean Sand
6	36.70	35.70	1.00	4.00	2-Clay and Silty Sand
7	35.70	28.70	7.00	10.86	3-Clean Sand
8	28.70	19.95	8.75	8.14	2-Clay and Silty Sand
9	19.95	18.70	1.25	4.00	3-Clean Sand
10	18.70	14.95	3.75	4.00	2-Clay and Silty Sand
11	14.95	13.70	1.25	4.00	3-Clean Sand
12	13.70	-0.05	13.75	10.64	2-Clay and Silty Sand
13	-0.05	-1.30	1.25	4.00	3-Clean Sand
14	-1.30	-3.80	2.50	4.00	2-Clay and Silty Sand
15	-3.80	-5.05	1.25	0.00	1-Plastic Clay
16	-5.05	-6.30	1.25	0.00	2-Clay and Silty Sand
17	-6.30	-8.80	2.50	5.00	1-Plastic Clay
18	-8.80	-26.30	17.50	1.29	2-Clay and Silty Sand
19	-26.30	-33.80	7.50	0.33	3-Clean Sand
20	-33.80	-40.05	6.25	0.20	2-Clay and Silty Sand
21	-40.05	-41.30	1.25	1.00	3-Clean Sand
22	-41.30	-47.55	6.25	99.00	2-Clay and Silty Sand
23	-47.55	-48.80	1.25	1.00	3-Clean Sand
24	-48.80	-51.30	2.50	1.00	2-Clay and Silty Sand
25	-51.30	-52.55	1.25	4.00	4-Limestone, Very
Shelly Sand					
26	-52.55	-53.80	1.25	4.00	3-Clean Sand
27	-53.80	-60.05	6.25	11.60	4-Limestone, Very
Shelly Sand					
28	-60.05	-61.30	1.25	14.00	3-Clean Sand
29	-61.30	-77.30	16.00	82.53	4-Limestone, Very
Shelly Sand					
30	-77.30	-77.30	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	33.70
18.00	12.00	31.70
18.00	14.00	29.70
18.00	16.00	27.70
18.00	18.00	25.70
18.00	20.00	23.70
18.00	22.00	21.70
18.00	24.00	19.70
18.00	26.00	17.70
18.00	28.00	15.70
18.00	30.00	13.70
18.00	32.00	11.70
18.00	34.00	9.70
18.00	36.00	7.70
18.00	38.00	5.70
18.00	40.00	3.70
18.00	42.00	1.70
18.00	44.00	-0.30
18.00	46.00	-2.30
18.00	48.00	-4.30
18.00	50.00	-6.30
18.00	52.00	-8.30
18.00	54.00	-10.30
18.00	56.00	-12.30
18.00	58.00	-14.30
18.00	60.00	-16.30
18.00	62.00	-18.30
18.00	64.00	-20.30
18.00	66.00	-22.30
18.00	68.00	-24.30
18.00	70.00	-26.30
18.00	72.00	-28.30
18.00	74.00	-30.30
18.00	76.00	-32.30
18.00	78.00	-34.30
18.00	80.00	-36.30
18.00	82.00	-38.30
18.00	84.00	-40.30
18.00	86.00	-42.30
18.00	88.00	-44.30
18.00	90.00	-46.30
18.00	92.00	-48.30
18.00	94.00	-50.30
18.00	96.00	-52.30

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18.00	98.00	-54.30
18.00	100.00	-56.30
18.00	102.00	-58.30
18.00	104.00	-60.30
18.00	106.00	-62.30
18.00	108.00	-64.30
18.00	110.00	-66.30
18.00	112.00	-68.30
18.00	114.00	-70.30
18.00	116.00	-72.30
18.00	118.00	-74.30
18.00	120.00	-76.30

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	3.98	18.36	22.34	11.17	59.06
12.00	18.0	7.44	17.34	24.78	12.39	59.46
14.00	18.0	11.44	16.54	27.97	13.99	61.05
16.00	18.0	16.65	12.66	29.32	14.66	54.65
18.00	18.0	23.09	12.28	35.37	17.68	59.93
20.00	18.0	28.24	9.62	37.85	18.93	57.09
22.00	18.0	32.48	7.25	39.73	19.86	54.23
24.00	18.0	35.05	0.04	35.09	17.55	35.18
26.00	18.0	35.05	6.52	41.57	20.78	54.60
28.00	18.0	35.05	7.20	42.25	21.13	56.65
30.00	18.0	36.30	8.89	45.19	22.60	62.98
32.00	18.0	40.34	9.50	49.84	24.92	68.85
34.00	18.0	44.69	11.54	56.23	28.12	79.31
36.00	18.0	50.52	13.68	64.20	32.10	91.56
38.00	18.0	59.33	13.85	73.18	36.59	100.88
40.00	18.0	67.10	11.90	79.00	39.50	102.80
42.00	18.0	73.68	10.01	83.69	41.85	103.72
44.00	18.0	81.12	0.02	81.14	40.57	81.17
46.00	18.0	81.12	7.49	88.61	44.30	103.58
48.00	18.0	81.12	6.26	87.38	43.69	99.89
50.00	18.0	82.33	4.16	86.49	43.24	94.81
52.00	18.0	84.64	2.32	86.96	43.48	91.59
54.00	18.0	84.74	0.00	84.74	42.37	84.74
56.00	18.0	84.74	0.00	84.74	42.37	84.74

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58.00	18.0	84.74	0.00	84.74	42.37	84.74
60.00	18.0	84.74	0.00	84.74	42.37	84.74
62.00	18.0	84.74	0.00	84.74	42.37	84.74
64.00	18.0	84.74	0.00	84.74	42.37	84.74
66.00	18.0	84.74	0.00	84.74	42.37	84.74
68.00	18.0	84.74	0.00	84.74	42.37	84.74
70.00	18.0	84.74	0.00	84.74	42.37	84.74
72.00	18.0	84.74	0.00	84.74	42.37	84.74
74.00	18.0	84.74	0.00	84.74	42.37	84.74
76.00	18.0	84.74	0.00	84.74	42.37	84.74
78.00	18.0	84.74	0.00	84.74	42.37	84.74
80.00	18.0	84.74	2.50	87.24	43.62	92.24
82.00	18.0	84.74	14.79	99.52	49.76	129.09
84.00	18.0	84.92	31.74	116.66	58.33	180.13
86.00	18.0	97.50	36.59	134.09	67.04	207.27
88.00	18.0	113.21	28.87	142.08	71.04	199.83
90.00	18.0	128.92	21.16	150.08	75.04	192.40
92.00	18.0	133.83	0.25	134.08	67.04	134.58
94.00	18.0	133.83	22.84	156.67	78.33	202.35
96.00	18.0	133.83	30.91	164.74	82.37	226.57
98.00	18.0	134.67	36.20	170.87	85.44	243.27
100.00	18.0	136.03	38.62	174.66	87.33	251.90
102.00	18.0	136.96	50.47	187.43	93.71	288.37
104.00	18.0	141.16	85.43	226.59	113.29	397.45
106.00	18.0	147.51	98.60	246.11	123.06	443.32
108.00	18.0	153.39	104.60	257.99	128.99	467.18
110.00	18.0	158.93	115.62	274.55	137.27	505.79
112.00	18.0	164.69	130.70	295.39	147.69	556.79
114.00	18.0	170.89	150.04	320.93	160.46	621.02
116.00	18.0	*****	Not enough soil data	*****		
118.00	18.0	0.00	0.00	0.00	0.00	0.00
120.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B2a\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 7-23-14, Boring Number: WL2-B2a  
 Station number: 797+60 Offset: 150 LT

Ground Elevation: 38.000(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	5.00	3- Clean sand
2	2.00	5.00	3- Clean sand
3	4.00	7.00	3- Clean sand
4	6.00	6.00	2- Clay and silty sand
5	7.00	6.00	3- Clean sand
6	8.00	25.00	2- Clay and silty sand
7	10.00	13.00	2- Clay and silty sand
8	12.50	14.00	2- Clay and silty sand
9	15.00	11.00	2- Clay and silty sand
10	17.50	8.00	2- Clay and silty sand
11	20.00	7.00	2- Clay and silty sand
12	21.25	4.00	3- Clean sand
13	22.50	4.00	2- Clay and silty sand
14	25.00	5.00	2- Clay and silty sand
15	27.50	4.00	2- Clay and silty sand
16	30.00	5.00	2- Clay and silty sand
17	32.50	4.00	2- Clay and silty sand



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18	33.75	4.00	3- Clean sand
19	35.00	6.00	2- Clay and silty sand
20	37.50	10.00	2- Clay and silty sand
21	40.00	10.00	2- Clay and silty sand
22	42.50	10.00	2- Clay and silty sand
23	43.75	2.00	3- Clean sand
24	45.00	2.00	2- Clay and silty sand
25	47.50	0.00	2- Clay and silty sand
26	50.00	4.00	2- Clay and silty sand
27	52.50	0.00	2- Clay and silty sand
28	55.00	4.00	2- Clay and silty sand
29	56.25	4.00	3- Clean sand
30	57.50	99.00	2- Clay and silty sand
31	58.75	9.00	3- Clean sand
32	60.00	9.00	2- Clay and silty sand
33	61.25	0.00	3- Clean sand
34	62.50	0.00	2- Clay and silty sand
35	65.00	0.00	2- Clay and silty sand
36	67.50	0.00	2- Clay and silty sand
37	70.00	0.00	2- Clay and silty sand
38	72.50	0.00	2- Clay and silty sand
39	75.00	0.00	2- Clay and silty sand
40	77.50	0.00	2- Clay and silty sand
41	80.00	0.00	2- Clay and silty sand
42	82.50	0.00	2- Clay and silty sand
43	83.75	0.00	3- Clean sand
44	85.00	15.00	2- Clay and silty sand
45	87.50	6.00	2- Clay and silty sand
46	90.00	0.00	4- Lime Stone/Very shelly sand
47	92.50	0.00	4- Lime Stone/Very shelly sand
48	95.00	0.00	4- Lime Stone/Very shelly sand
49	97.50	4.00	4- Lime Stone/Very shelly sand
50	100.00	0.00	4- Lime Stone/Very shelly sand
51	102.50	0.00	4- Lime Stone/Very shelly sand
52	105.00	0.00	4- Lime Stone/Very shelly sand
53	106.25	0.00	3- Clean sand
54	107.50	41.00	4- Lime Stone/Very shelly sand
55	110.00	99.00	4- Lime Stone/Very shelly sand
56	111.25	14.00	3- Clean sand
57	112.50	14.00	4- Lime Stone/Very shelly sand
58	113.75	14.00	3- Clean sand
59	115.00	99.00	4- Lime Stone/Very shelly sand
60	117.50	49.00	4- Lime Stone/Very shelly sand
61	118.75	18.00	3- Clean sand
62	120.00	18.00	4- Lime Stone/Very shelly sand
63	122.50	19.00	4- Lime Stone/Very shelly sand
64	123.75	19.00	3- Clean sand
65	125.00	99.00	4- Lime Stone/Very shelly sand

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66	127.50	99.00	4-	Lime Stone/Very shelly sand
67	130.00	38.00	4-	Lime Stone/Very shelly sand
68	131.25	12.00	3-	Clean sand
69	132.50	12.00	4-	Lime Stone/Very shelly sand
70	135.00	19.00	4-	Lime Stone/Very shelly sand
71	137.50	16.00	4-	Lime Stone/Very shelly sand
72	140.00	30.00	4-	Lime Stone/Very shelly sand
73	142.50	19.00	4-	Lime Stone/Very shelly sand
74	145.00	22.00	4-	Lime Stone/Very shelly sand
75	147.50	22.00	4-	Lime Stone/Very shelly sand
76	148.75	22.00	3-	Clean sand
77	150.00	64.00	4-	Lime Stone/Very shelly sand
78	152.50	99.00	4-	Lime Stone/Very shelly sand
79	155.00	99.00	4-	Lime Stone/Very shelly sand
80	156.00	0.00	5-	Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	38.00	32.00	6.00	5.67	3-Clean Sand
2	32.00	31.00	1.00	6.00	2-Clay and Silty Sand
3	31.00	30.00	1.00	6.00	3-Clean Sand
4	30.00	16.75	13.25	13.11	2-Clay and Silty Sand
5	16.75	15.50	1.25	4.00	3-Clean Sand
6	15.50	4.25	11.25	4.44	2-Clay and Silty Sand
7	4.25	3.00	1.25	4.00	3-Clean Sand
8	3.00	-5.75	8.75	8.86	2-Clay and Silty Sand
9	-5.75	-7.00	1.25	2.00	3-Clean Sand
10	-7.00	-18.25	11.25	1.78	2-Clay and Silty Sand
11	-18.25	-19.50	1.25	4.00	3-Clean Sand
12	-19.50	-20.75	1.25	99.00	2-Clay and Silty Sand
13	-20.75	-22.00	1.25	9.00	3-Clean Sand
14	-22.00	-23.25	1.25	9.00	2-Clay and Silty Sand
15	-23.25	-24.50	1.25	0.00	3-Clean Sand
16	-24.50	-45.75	21.25	0.00	2-Clay and Silty Sand
17	-45.75	-47.00	1.25	0.00	3-Clean Sand
18	-47.00	-52.00	5.00	10.50	2-Clay and Silty Sand
19	-52.00	-68.25	16.25	0.62	4-Limestone, Very Shelly Sand
20	-68.25	-69.50	1.25	0.00	3-Clean Sand
21	-69.50	-73.25	3.75	60.33	4-Limestone, Very Shelly Sand

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Shelly Sand					
22	-73.25	-74.50	1.25	14.00	3-Clean Sand
23	-74.50	-75.75	1.25	14.00	4-Limestone, Very
Shelly Sand					
24	-75.75	-77.00	1.25	14.00	3-Clean Sand
25	-77.00	-80.75	3.75	82.33	4-Limestone, Very
Shelly Sand					
26	-80.75	-82.00	1.25	18.00	3-Clean Sand
27	-82.00	-85.75	3.75	18.33	4-Limestone, Very
Shelly Sand					
28	-85.75	-87.00	1.25	19.00	3-Clean Sand
29	-87.00	-93.25	6.25	86.80	4-Limestone, Very
Shelly Sand					
30	-93.25	-94.50	1.25	12.00	3-Clean Sand
31	-94.50	-110.75	16.25	19.85	4-Limestone, Very
Shelly Sand					
32	-110.75	-112.00	1.25	22.00	3-Clean Sand
33	-112.00	-118.00	6.00	84.42	4-Limestone, Very
Shelly Sand					
34	-118.00	-118.00	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	28.00
18.00	12.00	26.00
18.00	14.00	24.00
18.00	16.00	22.00
18.00	18.00	20.00
18.00	20.00	18.00
18.00	22.00	16.00
18.00	24.00	14.00
18.00	26.00	12.00
18.00	28.00	10.00
18.00	30.00	8.00
18.00	32.00	6.00
18.00	34.00	4.00
18.00	36.00	2.00
18.00	38.00	0.00
18.00	40.00	-2.00
18.00	42.00	-4.00

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18.00	44.00	-6.00
18.00	46.00	-8.00
18.00	48.00	-10.00
18.00	50.00	-12.00
18.00	52.00	-14.00
18.00	54.00	-16.00
18.00	56.00	-18.00
18.00	58.00	-20.00
18.00	60.00	-22.00
18.00	62.00	-24.00
18.00	64.00	-26.00
18.00	66.00	-28.00
18.00	68.00	-30.00
18.00	70.00	-32.00
18.00	72.00	-34.00
18.00	74.00	-36.00
18.00	76.00	-38.00
18.00	78.00	-40.00
18.00	80.00	-42.00
18.00	82.00	-44.00
18.00	84.00	-46.00
18.00	86.00	-48.00
18.00	88.00	-50.00
18.00	90.00	-52.00
18.00	92.00	-54.00
18.00	94.00	-56.00
18.00	96.00	-58.00
18.00	98.00	-60.00
18.00	100.00	-62.00
18.00	102.00	-64.00
18.00	104.00	-66.00
18.00	106.00	-68.00
18.00	108.00	-70.00
18.00	110.00	-72.00
18.00	112.00	-74.00
18.00	114.00	-76.00
18.00	116.00	-78.00
18.00	118.00	-80.00
18.00	120.00	-82.00
18.00	122.00	-84.00
18.00	124.00	-86.00
18.00	126.00	-88.00
18.00	128.00	-90.00
18.00	130.00	-92.00
18.00	132.00	-94.00
18.00	134.00	-96.00
18.00	136.00	-98.00
18.00	138.00	-100.00

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18.00	140.00	-102.00
18.00	142.00	-104.00
18.00	144.00	-106.00
18.00	146.00	-108.00
18.00	148.00	-110.00
18.00	150.00	-112.00
18.00	152.00	-114.00
18.00	154.00	-116.00

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	21.52	19.23	40.76	20.38	79.22
12.00	18.0	29.39	20.40	49.79	24.90	90.60
14.00	18.0	37.71	18.24	55.95	27.98	92.43
16.00	18.0	44.58	15.72	60.29	30.15	91.72
18.00	18.0	50.14	12.52	62.66	31.33	87.70
20.00	18.0	54.98	10.70	65.68	32.84	87.07
22.00	18.0	56.42	1.76	58.19	29.09	61.71
24.00	18.0	57.18	7.30	64.48	32.24	79.08
26.00	18.0	59.88	6.13	66.01	33.00	78.27
28.00	18.0	60.72	4.79	65.51	32.75	75.08
30.00	18.0	62.74	3.99	66.73	33.36	74.71
32.00	18.0	64.76	4.86	69.62	34.81	79.34
34.00	18.0	64.90	7.05	71.95	35.97	86.05
36.00	18.0	68.16	8.62	76.79	38.39	94.03
38.00	18.0	73.33	9.16	82.49	41.24	100.80
40.00	18.0	80.48	8.21	88.69	44.34	105.11
42.00	18.0	86.81	6.24	93.06	46.53	105.55
44.00	18.0	90.38	0.00	90.38	45.19	90.38
46.00	18.0	90.38	4.95	95.33	47.66	105.23
48.00	18.0	90.38	4.31	94.68	47.34	103.30
50.00	18.0	90.38	3.18	93.56	46.78	99.91
52.00	18.0	90.38	4.68	95.06	47.53	104.42
54.00	18.0	90.38	12.01	102.39	51.19	126.41
56.00	18.0	90.38	13.35	103.73	51.87	130.44
58.00	18.0	98.56	9.26	107.81	53.91	126.33
60.00	18.0	103.59	1.59	105.19	52.59	108.37
62.00	18.0	105.40	0.00	105.40	52.70	105.40
64.00	18.0	105.40	5.84	111.24	55.62	122.92

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66.00	18.0	105.40	5.84	111.24	55.62	122.92
68.00	18.0	105.40	5.84	111.24	55.62	122.92
70.00	18.0	105.40	2.66	108.05	54.03	113.36
72.00	18.0	105.40	0.35	105.75	52.87	106.44
74.00	18.0	105.40	0.00	105.40	52.70	105.40
76.00	18.0	105.40	0.00	105.40	52.70	105.40
78.00	18.0	105.40	0.00	105.40	52.70	105.40
80.00	18.0	105.40	1.84	107.24	53.62	110.93
82.00	18.0	105.40	4.82	110.22	55.11	119.86
84.00	18.0	105.51	5.94	111.45	55.72	123.33
86.00	18.0	111.24	10.09	121.33	60.66	141.52
88.00	18.0	117.14	7.86	125.00	62.50	140.72
90.00	18.0	118.74	0.00	118.74	59.37	118.74
92.00	18.0	118.74	0.00	118.74	59.37	118.74
94.00	18.0	118.74	0.00	118.74	59.37	118.74
96.00	18.0	118.74	0.00	118.74	59.37	118.74
98.00	18.0	118.74	0.00	118.74	59.37	118.74
100.00	18.0	118.74	0.00	118.74	59.37	118.74
102.00	18.0	118.74	5.23	123.97	61.98	134.42
104.00	18.0	118.74	32.49	151.23	75.61	216.21
106.00	18.0	118.74	55.92	174.66	87.33	286.50
108.00	18.0	122.20	56.09	178.28	89.14	290.46
110.00	18.0	128.94	57.73	186.67	93.34	302.13
112.00	18.0	133.72	75.90	209.62	104.81	361.42
114.00	18.0	136.75	93.90	230.65	115.33	418.46
116.00	18.0	143.31	91.15	234.46	117.23	416.77
118.00	18.0	150.40	86.24	236.64	118.32	409.13
120.00	18.0	154.97	92.11	247.09	123.54	431.31
122.00	18.0	157.44	94.69	252.13	126.06	441.50
124.00	18.0	161.66	117.32	278.98	139.49	513.62
126.00	18.0	168.51	119.49	288.00	144.00	526.98
128.00	18.0	175.67	98.37	274.04	137.02	470.78
130.00	18.0	181.94	80.94	262.88	131.44	424.76
132.00	18.0	185.86	45.41	231.27	115.64	322.10
134.00	18.0	187.91	80.25	268.16	134.08	428.66
136.00	18.0	190.30	83.15	273.45	136.73	439.75
138.00	18.0	192.94	82.29	275.23	137.62	439.81
140.00	18.0	196.80	75.14	271.94	135.97	422.21
142.00	18.0	200.61	68.22	268.83	134.42	405.27
144.00	18.0	203.58	69.74	273.31	136.66	412.79
146.00	18.0	206.81	86.97	293.78	146.89	467.72
148.00	18.0	210.23	104.96	315.19	157.59	525.11
150.00	18.0	216.42	120.24	336.66	168.33	577.14
152.00	18.0	*****	Not enough soil data	*****		
154.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....alculations-Analyses\FB-Deep\Wildlife No 2\WL2-B3\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 6-13-13, Boring Number: WL2-B3  
 Station number: 797+77 Offset: 67 RT

Ground Elevation: 42.600(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	6.00	3- Clean sand
2	2.00	6.00	3- Clean sand
3	4.00	5.00	3- Clean sand
4	6.00	7.00	3- Clean sand
5	8.00	8.00	3- Clean sand
6	10.00	6.00	3- Clean sand
7	11.25	3.00	2- Clay and silty sand
8	12.50	3.00	3- Clean sand
9	15.00	4.00	3- Clean sand
10	17.50	4.00	3- Clean sand
11	20.00	3.00	3- Clean sand
12	22.50	4.00	3- Clean sand
13	23.75	4.00	2- Clay and silty sand
14	25.00	13.00	3- Clean sand
15	27.50	6.00	3- Clean sand
16	30.00	5.00	3- Clean sand
17	32.50	7.00	3- Clean sand



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18	35.00	20.00	3- Clean sand
19	37.50	21.00	3- Clean sand
20	40.00	6.00	2- Clay and silty sand
21	42.50	7.00	2- Clay and silty sand
22	45.00	11.00	2- Clay and silty sand
23	46.25	11.00	3- Clean sand
24	47.50	99.00	2- Clay and silty sand
25	50.00	99.00	2- Clay and silty sand
26	51.25	13.00	3- Clean sand
27	52.50	13.00	2- Clay and silty sand
28	53.75	13.00	3- Clean sand
29	55.00	47.00	2- Clay and silty sand
30	57.50	57.00	2- Clay and silty sand
31	60.00	67.00	2- Clay and silty sand
32	61.25	30.00	3- Clean sand
33	62.50	30.00	2- Clay and silty sand
34	63.75	30.00	3- Clean sand
35	65.00	99.00	2- Clay and silty sand
36	67.50	52.00	2- Clay and silty sand
37	70.00	99.00	2- Clay and silty sand
38	72.50	99.00	4- Lime Stone/Very shelly sand
39	75.00	99.00	4- Lime Stone/Very shelly sand
40	76.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	42.60	31.35	11.25	6.36	3-Clean Sand
2	31.35	30.10	1.25	3.00	2-Clay and Silty Sand
3	30.10	18.85	11.25	3.56	3-Clean Sand
4	18.85	17.60	1.25	4.00	2-Clay and Silty Sand
5	17.60	2.60	15.00	12.00	3-Clean Sand
6	2.60	-3.65	6.25	7.40	2-Clay and Silty Sand
7	-3.65	-4.90	1.25	11.00	3-Clean Sand
8	-4.90	-8.65	3.75	99.00	2-Clay and Silty Sand
9	-8.65	-9.90	1.25	13.00	3-Clean Sand
10	-9.90	-11.15	1.25	13.00	2-Clay and Silty Sand
11	-11.15	-12.40	1.25	13.00	3-Clean Sand
12	-12.40	-18.65	6.25	55.00	2-Clay and Silty Sand
13	-18.65	-19.90	1.25	30.00	3-Clean Sand
14	-19.90	-21.15	1.25	30.00	2-Clay and Silty Sand

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15	-21.15	-22.40	1.25	30.00	3-Clean Sand
16	-22.40	-29.90	7.50	83.33	2-Clay and Silty Sand
17	-29.90	-33.40	3.50	99.00	4-Limestone, Very
Shelly Sand					
18	-33.40	-33.40	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	32.60
18.00	12.00	30.60
18.00	14.00	28.60
18.00	16.00	26.60
18.00	18.00	24.60
18.00	20.00	22.60
18.00	22.00	20.60
18.00	24.00	18.60
18.00	26.00	16.60
18.00	28.00	14.60
18.00	30.00	12.60
18.00	32.00	10.60
18.00	34.00	8.60
18.00	36.00	6.60
18.00	38.00	4.60
18.00	40.00	2.60
18.00	42.00	0.60
18.00	44.00	-1.40
18.00	46.00	-3.40
18.00	48.00	-5.40
18.00	50.00	-7.40
18.00	52.00	-9.40
18.00	54.00	-11.40
18.00	56.00	-13.40
18.00	58.00	-15.40
18.00	60.00	-17.40
18.00	62.00	-19.40
18.00	64.00	-21.40
18.00	66.00	-23.40
18.00	68.00	-25.40
18.00	70.00	-27.40
18.00	72.00	-29.40

18.00      74.00      -31.40

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	9.05	10.59	19.63	9.82	40.81
12.00	18.0	9.58	0.00	9.58	4.79	9.58
14.00	18.0	9.58	6.91	16.49	8.25	30.32
16.00	18.0	9.58	5.55	15.13	7.56	26.22
18.00	18.0	9.58	4.06	13.64	6.82	21.76
20.00	18.0	9.58	5.40	14.98	7.49	25.78
22.00	18.0	9.58	9.05	18.63	9.31	36.73
24.00	18.0	9.62	11.47	21.09	10.55	44.04
26.00	18.0	12.37	11.74	24.10	12.05	47.57
28.00	18.0	14.12	12.34	26.46	13.23	51.14
30.00	18.0	14.19	15.29	29.48	14.74	60.07
32.00	18.0	14.54	21.68	36.21	18.11	79.57
34.00	18.0	16.11	28.19	44.31	22.15	100.70
36.00	18.0	20.14	28.77	48.91	24.45	106.44
38.00	18.0	25.83	25.19	51.02	25.51	101.39
40.00	18.0	36.37	11.84	48.21	24.11	71.89
42.00	18.0	39.70	13.22	52.91	26.46	79.35
44.00	18.0	42.13	22.56	64.68	32.34	109.79
46.00	18.0	46.40	37.42	83.82	41.91	158.67
48.00	18.0	61.86	41.03	102.89	51.44	184.95
50.00	18.0	77.57	38.07	115.63	57.82	191.77
52.00	18.0	85.48	42.65	128.13	64.07	213.44
54.00	18.0	91.47	52.79	144.26	72.13	249.84
56.00	18.0	104.42	57.79	162.21	81.10	277.79
58.00	18.0	118.78	60.40	179.19	89.59	300.00
60.00	18.0	133.07	64.94	198.01	99.00	327.88
62.00	18.0	147.56	71.73	219.30	109.65	362.76
64.00	18.0	159.14	68.23	227.37	113.68	363.82
66.00	18.0	173.01	70.92	243.93	121.97	385.76
68.00	18.0	185.32	79.86	265.17	132.59	424.89
70.00	18.0	197.07	100.19	297.26	148.63	497.64
72.00	18.0	*****	Not enough soil data	*****		
74.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA,  
AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
  4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE  
ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....alculations-Analyses\FB-Deep\Wildlife No 2\WL2-B4\_18&24PCP.spc  
 Project number: H113S080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 6-14-13, Boring Number: WL2-B4  
 Station number: 799+11 Offset: 98 LT

Ground Elevation: 38.200(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	4.00	3- Clean sand
2	2.00	4.00	3- Clean sand
3	4.00	5.00	3- Clean sand
4	6.00	6.00	2- Clay and silty sand
5	8.00	5.00	2- Clay and silty sand
6	10.00	8.00	2- Clay and silty sand
7	11.25	4.00	3- Clean sand
8	12.50	4.00	2- Clay and silty sand
9	15.00	5.00	2- Clay and silty sand
10	17.50	3.00	3- Clean sand
11	20.00	5.00	2- Clay and silty sand
12	22.50	4.00	2- Clay and silty sand
13	23.75	4.00	3- Clean sand
14	25.00	7.00	2- Clay and silty sand
15	27.50	5.00	2- Clay and silty sand
16	30.00	30.00	3- Clean sand
17	32.50	30.00	3- Clean sand

WL2-B4\_18-PCP.txt

18	35.00	29.00	3- Clean sand
19	36.25	9.00	2- Clay and silty sand
20	37.50	9.00	3- Clean sand
21	40.00	15.00	3- Clean sand
22	42.50	2.00	2- Clay and silty sand
23	45.00	2.00	2- Clay and silty sand
24	47.50	2.00	2- Clay and silty sand
25	48.75	2.00	3- Clean sand
26	50.00	31.00	2- Clay and silty sand
27	51.25	31.00	3- Clean sand
28	52.50	99.00	2- Clay and silty sand
29	55.00	99.00	2- Clay and silty sand
30	57.50	99.00	2- Clay and silty sand
31	60.00	99.00	2- Clay and silty sand
32	62.50	99.00	2- Clay and silty sand
33	65.00	65.00	2- Clay and silty sand
34	67.50	99.00	2- Clay and silty sand
35	70.00	99.00	2- Clay and silty sand
36	72.50	99.00	2- Clay and silty sand
37	75.00	99.00	2- Clay and silty sand
38	76.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	38.20	32.20	6.00	4.33	3-Clean Sand
2	32.20	26.95	5.25	6.10	2-Clay and Silty Sand
3	26.95	25.70	1.25	4.00	3-Clean Sand
4	25.70	20.70	5.00	4.50	2-Clay and Silty Sand
5	20.70	18.20	2.50	3.00	3-Clean Sand
6	18.20	14.45	3.75	4.67	2-Clay and Silty Sand
7	14.45	13.20	1.25	4.00	3-Clean Sand
8	13.20	8.20	5.00	6.00	2-Clay and Silty Sand
9	8.20	1.95	6.25	29.80	3-Clean Sand
10	1.95	0.70	1.25	9.00	2-Clay and Silty Sand
11	0.70	-4.30	5.00	12.00	3-Clean Sand
12	-4.30	-10.55	6.25	2.00	2-Clay and Silty Sand
13	-10.55	-11.80	1.25	2.00	3-Clean Sand
14	-11.80	-13.05	1.25	31.00	2-Clay and Silty Sand
15	-13.05	-14.30	1.25	31.00	3-Clean Sand
16	-14.30	-37.80	23.50	95.38	2-Clay and Silty Sand

17      -37.80      -37.80      0.00      0.00      5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	28.20
18.00	12.00	26.20
18.00	14.00	24.20
18.00	16.00	22.20
18.00	18.00	20.20
18.00	20.00	18.20
18.00	22.00	16.20
18.00	24.00	14.20
18.00	26.00	12.20
18.00	28.00	10.20
18.00	30.00	8.20
18.00	32.00	6.20
18.00	34.00	4.20
18.00	36.00	2.20
18.00	38.00	0.20
18.00	40.00	-1.80
18.00	42.00	-3.80
18.00	44.00	-5.80
18.00	46.00	-7.80
18.00	48.00	-9.80
18.00	50.00	-11.80
18.00	52.00	-13.80
18.00	54.00	-15.80
18.00	56.00	-17.80
18.00	58.00	-19.80
18.00	60.00	-21.80
18.00	62.00	-23.80
18.00	64.00	-25.80
18.00	66.00	-27.80
18.00	68.00	-29.80
18.00	70.00	-31.80
18.00	72.00	-33.80
18.00	74.00	-35.80

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	11.38	5.48	16.86	8.43	27.83
12.00	18.0	13.00	1.76	14.77	7.38	18.29
14.00	18.0	13.73	5.25	18.98	9.49	29.49
16.00	18.0	16.41	5.25	21.66	10.83	32.16
18.00	18.0	17.30	4.32	21.62	10.81	30.27
20.00	18.0	19.32	3.50	22.82	11.41	29.82
22.00	18.0	20.88	3.94	24.82	12.41	32.71
24.00	18.0	21.48	8.91	30.38	15.19	48.19
26.00	18.0	24.43	18.88	43.31	21.65	81.07
28.00	18.0	26.28	29.19	55.47	27.74	113.86
30.00	18.0	35.26	51.04	86.30	43.15	188.38
32.00	18.0	43.74	46.94	90.68	45.34	184.56
34.00	18.0	52.16	43.19	95.34	47.67	181.72
36.00	18.0	59.90	42.43	102.33	51.16	187.18
38.00	18.0	63.93	40.70	104.63	52.31	186.02
40.00	18.0	67.49	35.83	103.33	51.66	175.00
42.00	18.0	70.04	28.25	98.29	49.15	154.79
44.00	18.0	70.14	0.11	70.25	35.13	70.47
46.00	18.0	70.14	6.41	76.55	38.28	89.36
48.00	18.0	70.14	23.74	93.89	46.94	141.38
50.00	18.0	74.65	43.52	118.17	59.08	205.21
52.00	18.0	85.92	45.66	131.58	65.79	222.91
54.00	18.0	101.32	72.00	173.32	86.66	317.32
56.00	18.0	117.03	72.00	189.03	94.51	333.03
58.00	18.0	132.73	72.00	204.73	102.37	348.73
60.00	18.0	148.44	72.00	220.44	110.22	364.44
62.00	18.0	164.15	72.00	236.15	118.08	380.15
64.00	18.0	179.86	72.00	251.86	125.93	395.86
66.00	18.0	195.57	72.00	267.57	133.79	411.57
68.00	18.0	211.28	72.00	283.28	141.64	427.28
70.00	18.0	226.99	71.79	298.78	149.39	442.35
72.00	18.0	*****	Not enough soil data	*****		
74.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA,



WL2-B4\_18-PCP.txt

AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.

3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE  
ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....alculations-Analyses\FB-Deep\Wildlife No 2\WL2-B5\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 6-12-13, Boring Number: WL2-B5  
 Station number: 798+78 Offset: 30 LT

Ground Elevation: 43.000(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	4.00	3- Clean sand
2	2.00	4.00	3- Clean sand
3	3.00	4.00	2- Clay and silty sand
4	4.00	6.00	3- Clean sand
5	6.00	7.00	3- Clean sand
6	8.00	11.00	3- Clean sand
7	10.00	12.00	3- Clean sand
8	12.50	11.00	3- Clean sand
9	15.00	8.00	3- Clean sand
10	17.50	7.00	2- Clay and silty sand
11	18.75	4.00	3- Clean sand
12	20.00	4.00	2- Clay and silty sand
13	22.50	5.00	2- Clay and silty sand
14	25.00	7.00	2- Clay and silty sand
15	26.25	4.00	3- Clean sand
16	27.50	4.00	2- Clay and silty sand
17	30.00	27.00	3- Clean sand

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18	32.50	23.00	3- Clean sand
19	35.00	12.00	3- Clean sand
20	37.50	16.00	3- Clean sand
21	38.75	7.00	2- Clay and silty sand
22	40.00	7.00	3- Clean sand
23	42.50	5.00	2- Clay and silty sand
24	45.00	5.00	2- Clay and silty sand
25	46.25	5.00	3- Clean sand
26	47.50	13.00	2- Clay and silty sand
27	48.75	13.00	3- Clean sand
28	50.00	99.00	2- Clay and silty sand
29	52.50	99.00	4- Lime Stone/Very shelly sand
30	55.00	99.00	4- Lime Stone/Very shelly sand
31	57.50	99.00	4- Lime Stone/Very shelly sand
32	60.00	99.00	4- Lime Stone/Very shelly sand
33	62.50	99.00	2- Clay and silty sand
34	65.00	99.00	2- Clay and silty sand
35	67.50	78.00	2- Clay and silty sand
36	70.00	99.00	4- Lime Stone/Very shelly sand
37	71.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	43.00	40.00	3.00	4.00	3-Clean Sand
2	40.00	39.00	1.00	4.00	2-Clay and Silty Sand
3	39.00	25.50	13.50	9.30	3-Clean Sand
4	25.50	24.25	1.25	7.00	2-Clay and Silty Sand
5	24.25	23.00	1.25	4.00	3-Clean Sand
6	23.00	16.75	6.25	5.00	2-Clay and Silty Sand
7	16.75	15.50	1.25	4.00	3-Clean Sand
8	15.50	13.00	2.50	4.00	2-Clay and Silty Sand
9	13.00	4.25	8.75	20.00	3-Clean Sand
10	4.25	3.00	1.25	7.00	2-Clay and Silty Sand
11	3.00	0.50	2.50	7.00	3-Clean Sand
12	0.50	-3.25	3.75	5.00	2-Clay and Silty Sand
13	-3.25	-4.50	1.25	5.00	3-Clean Sand
14	-4.50	-5.75	1.25	13.00	2-Clay and Silty Sand
15	-5.75	-7.00	1.25	13.00	3-Clean Sand
16	-7.00	-9.50	2.50	99.00	2-Clay and Silty Sand
17	-9.50	-19.50	10.00	99.00	4-Limestone, Very

WL2-B5\_18-PCP.txt

Shelly Sand					
18	-19.50	-27.00	7.50	92.00	2-Clay and Silty Sand
19	-27.00	-28.00	1.00	99.00	4-Limestone, Very
Shelly Sand					
20	-28.00	-28.00	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	33.00
18.00	12.00	31.00
18.00	14.00	29.00
18.00	16.00	27.00
18.00	18.00	25.00
18.00	20.00	23.00
18.00	22.00	21.00
18.00	24.00	19.00
18.00	26.00	17.00
18.00	28.00	15.00
18.00	30.00	13.00
18.00	32.00	11.00
18.00	34.00	9.00
18.00	36.00	7.00
18.00	38.00	5.00
18.00	40.00	3.00
18.00	42.00	1.00
18.00	44.00	-1.00
18.00	46.00	-3.00
18.00	48.00	-5.00
18.00	50.00	-7.00
18.00	52.00	-9.00
18.00	54.00	-11.00
18.00	56.00	-13.00
18.00	58.00	-15.00
18.00	60.00	-17.00
18.00	62.00	-19.00
18.00	64.00	-21.00
18.00	66.00	-23.00
18.00	68.00	-25.00
18.00	70.00	-27.00

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	5.93	20.58	26.51	13.25	67.66
12.00	18.0	9.10	21.15	30.25	15.13	72.56
14.00	18.0	12.14	19.64	31.78	15.89	71.07
16.00	18.0	14.74	16.99	31.73	15.87	65.71
18.00	18.0	20.32	3.58	23.90	11.95	31.05
20.00	18.0	21.21	14.65	35.86	17.93	65.16
22.00	18.0	22.56	11.88	34.43	17.22	58.19
24.00	18.0	26.12	12.84	38.96	19.48	64.63
26.00	18.0	28.09	23.50	51.59	25.79	98.59
28.00	18.0	29.92	32.24	62.16	31.08	126.63
30.00	18.0	34.51	36.85	71.36	35.68	145.06
32.00	18.0	41.69	36.59	78.28	39.14	151.46
34.00	18.0	47.52	34.93	82.46	41.23	152.33
36.00	18.0	51.34	33.32	84.65	42.33	151.29
38.00	18.0	55.61	29.85	85.46	42.73	145.15
40.00	18.0	59.39	10.66	70.05	35.03	91.38
42.00	18.0	61.54	11.15	72.69	36.34	94.99
44.00	18.0	64.91	11.82	76.73	38.36	100.36
46.00	18.0	65.92	20.93	86.85	43.42	128.70
48.00	18.0	72.94	51.90	124.84	62.42	228.63
50.00	18.0	81.04	79.89	160.93	80.46	320.70
52.00	18.0	91.48	85.82	177.30	88.65	348.94
54.00	18.0	100.34	102.44	202.78	101.39	407.65
56.00	18.0	106.32	108.45	214.76	107.38	431.66
58.00	18.0	113.10	111.72	224.82	112.41	448.25
60.00	18.0	120.62	111.35	231.96	115.98	454.66
62.00	18.0	131.44	109.74	241.18	120.59	460.66
64.00	18.0	147.79	73.47	221.26	110.63	368.21
66.00	18.0	*****	Not enough soil data	*****		
68.00	18.0	0.00	0.00	0.00	0.00	0.00
70.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA,

WL2-B5\_18-PCP.txt

AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.

3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE  
ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....alculations-Analyses\FB-Deep\Wildlife No 2\WL2-B6\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 6-13-13, Boring Number: WL2-B6  
 Station number: 799+65 Offset: 70 LT

Ground Elevation: 43.200(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	4.00	3- Clean sand
2	2.00	4.00	3- Clean sand
3	3.00	4.00	2- Clay and silty sand
4	4.00	8.00	3- Clean sand
5	6.00	9.00	3- Clean sand
6	8.00	7.00	3- Clean sand
7	10.00	6.00	3- Clean sand
8	12.50	6.00	3- Clean sand
9	13.75	4.00	2- Clay and silty sand
10	15.00	4.00	3- Clean sand
11	17.50	4.00	3- Clean sand
12	20.00	2.00	3- Clean sand
13	22.50	2.00	3- Clean sand
14	23.75	2.00	2- Clay and silty sand
15	25.00	5.00	3- Clean sand
16	27.50	4.00	3- Clean sand
17	28.75	4.00	2- Clay and silty sand

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18	30.00	16.00	3- Clean sand
19	32.50	15.00	3- Clean sand
20	35.00	17.00	3- Clean sand
21	37.50	14.00	3- Clean sand
22	38.75	5.00	2- Clay and silty sand
23	40.00	5.00	3- Clean sand
24	42.50	5.00	3- Clean sand
25	45.00	2.00	2- Clay and silty sand
26	46.25	2.00	3- Clean sand
27	47.50	5.00	2- Clay and silty sand
28	50.00	6.00	2- Clay and silty sand
29	51.25	6.00	3- Clean sand
30	52.50	99.00	2- Clay and silty sand
31	55.00	99.00	2- Clay and silty sand
32	57.50	99.00	2- Clay and silty sand
33	60.00	99.00	2- Clay and silty sand
34	62.50	99.00	2- Clay and silty sand
35	65.00	99.00	2- Clay and silty sand
36	67.50	99.00	2- Clay and silty sand
37	70.00	50.00	2- Clay and silty sand
38	72.50	43.00	2- Clay and silty sand
39	73.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	43.20	40.20	3.00	4.00	3-Clean Sand
2	40.20	39.20	1.00	4.00	2-Clay and Silty Sand
3	39.20	29.45	9.75	7.23	3-Clean Sand
4	29.45	28.20	1.25	4.00	2-Clay and Silty Sand
5	28.20	19.45	8.75	3.14	3-Clean Sand
6	19.45	18.20	1.25	2.00	2-Clay and Silty Sand
7	18.20	14.45	3.75	4.67	3-Clean Sand
8	14.45	13.20	1.25	4.00	2-Clay and Silty Sand
9	13.20	4.45	8.75	15.71	3-Clean Sand
10	4.45	3.20	1.25	5.00	2-Clay and Silty Sand
11	3.20	-1.80	5.00	5.00	3-Clean Sand
12	-1.80	-3.05	1.25	2.00	2-Clay and Silty Sand
13	-3.05	-4.30	1.25	2.00	3-Clean Sand
14	-4.30	-8.05	3.75	5.33	2-Clay and Silty Sand
15	-8.05	-9.30	1.25	6.00	3-Clean Sand



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16	-9.30	-29.80	20.50	91.66	2-Clay and Silty Sand
17	-29.80	-29.80	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	33.20
18.00	12.00	31.20
18.00	14.00	29.20
18.00	16.00	27.20
18.00	18.00	25.20
18.00	20.00	23.20
18.00	22.00	21.20
18.00	24.00	19.20
18.00	26.00	17.20
18.00	28.00	15.20
18.00	30.00	13.20
18.00	32.00	11.20
18.00	34.00	9.20
18.00	36.00	7.20
18.00	38.00	5.20
18.00	40.00	3.20
18.00	42.00	1.20
18.00	44.00	-0.80
18.00	46.00	-2.80
18.00	48.00	-4.80
18.00	50.00	-6.80
18.00	52.00	-8.80
18.00	54.00	-10.80
18.00	56.00	-12.80
18.00	58.00	-14.80
18.00	60.00	-16.80
18.00	62.00	-18.80
18.00	64.00	-20.80
18.00	66.00	-22.80
18.00	68.00	-24.80
18.00	70.00	-26.80
18.00	72.00	-28.80
18.00	74.00	-30.80

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	7.07	12.75	19.82	9.91	45.33
12.00	18.0	8.76	9.60	18.37	9.18	37.57
14.00	18.0	9.72	0.00	9.72	4.86	9.72
16.00	18.0	9.72	8.03	17.75	8.87	33.81
18.00	18.0	9.72	5.92	15.64	7.82	27.48
20.00	18.0	9.72	5.16	14.88	7.44	25.20
22.00	18.0	9.72	4.96	14.68	7.34	24.61
24.00	18.0	9.74	3.80	13.53	6.77	21.13
26.00	18.0	10.60	11.86	22.46	11.23	46.19
28.00	18.0	10.73	14.37	25.10	12.55	53.84
30.00	18.0	12.46	25.92	38.37	19.19	90.21
32.00	18.0	16.34	26.48	42.83	21.41	95.79
34.00	18.0	20.41	26.87	47.29	23.64	101.03
36.00	18.0	25.66	26.19	51.86	25.93	104.25
38.00	18.0	30.03	23.85	53.88	26.94	101.59
40.00	18.0	32.85	22.98	55.84	27.92	101.80
42.00	18.0	34.27	20.43	54.70	27.35	95.57
44.00	18.0	35.36	16.82	52.18	26.09	85.81
46.00	18.0	35.50	3.99	39.49	19.74	47.46
48.00	18.0	37.33	18.94	56.27	28.13	94.15
50.00	18.0	39.77	23.57	63.34	31.67	110.47
52.00	18.0	44.97	37.38	82.35	41.18	157.12
54.00	18.0	59.35	42.99	102.34	51.17	188.33
56.00	18.0	72.56	47.12	119.68	59.84	213.92
58.00	18.0	85.59	55.38	140.96	70.48	251.72
60.00	18.0	100.80	62.23	163.04	81.52	287.50
62.00	18.0	116.51	67.54	184.05	92.03	319.13
64.00	18.0	132.22	71.77	204.00	102.00	347.55
66.00	18.0	147.93	71.76	219.69	109.85	363.22
68.00	18.0	*****	Not enough soil data	*****		
70.00	18.0	0.00	0.00	0.00	0.00	0.00
72.00	18.0	0.00	0.00	0.00	0.00	0.00
74.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.

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2. DAVISSEON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA,  
AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSEON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE  
ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....alculations-Analyses\FB-Deep\Wildlife No 2\WL2-B7\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 6-17-13, Boring Number: WL2-B7  
 Station number: 800+15 Offset: 87 RT

Ground Elevation: 45.500(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	9.00	3- Clean sand
2	2.00	9.00	3- Clean sand
3	4.00	18.00	3- Clean sand
4	6.00	8.00	3- Clean sand
5	8.00	30.00	3- Clean sand
6	10.00	43.00	3- Clean sand
7	12.50	11.00	3- Clean sand
8	15.00	6.00	3- Clean sand
9	17.50	5.00	2- Clay and silty sand
10	20.00	5.00	2- Clay and silty sand
11	22.50	4.00	3- Clean sand
12	25.00	3.00	3- Clean sand
13	27.50	3.00	3- Clean sand
14	30.00	4.00	3- Clean sand
15	32.50	11.00	3- Clean sand
16	35.00	32.00	3- Clean sand
17	37.50	30.00	3- Clean sand

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18	40.00	12.00	3- Clean sand
19	42.50	13.00	3- Clean sand
20	45.00	4.00	3- Clean sand
21	47.50	2.00	2- Clay and silty sand
22	50.00	3.00	2- Clay and silty sand
23	52.50	2.00	2- Clay and silty sand
24	55.00	99.00	2- Clay and silty sand
25	57.50	99.00	2- Clay and silty sand
26	60.00	99.00	2- Clay and silty sand
27	62.50	26.00	2- Clay and silty sand
28	65.00	99.00	2- Clay and silty sand
29	67.50	99.00	2- Clay and silty sand
30	70.00	99.00	2- Clay and silty sand
31	72.50	99.00	2- Clay and silty sand
32	73.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	45.50	28.00	17.50	17.03	3-Clean Sand
2	28.00	23.00	5.00	5.00	2-Clay and Silty Sand
3	23.00	-2.00	25.00	11.60	3-Clean Sand
4	-2.00	-27.50	25.50	63.41	2-Clay and Silty Sand
5	-27.50	-27.50	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	35.50
18.00	12.00	33.50
18.00	14.00	31.50
18.00	16.00	29.50
18.00	18.00	27.50
18.00	20.00	25.50

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18.00	22.00	23.50
18.00	24.00	21.50
18.00	26.00	19.50
18.00	28.00	17.50
18.00	30.00	15.50
18.00	32.00	13.50
18.00	34.00	11.50
18.00	36.00	9.50
18.00	38.00	7.50
18.00	40.00	5.50
18.00	42.00	3.50
18.00	44.00	1.50
18.00	46.00	-0.50
18.00	48.00	-2.50
18.00	50.00	-4.50
18.00	52.00	-6.50
18.00	54.00	-8.50
18.00	56.00	-10.50
18.00	58.00	-12.50
18.00	60.00	-14.50
18.00	62.00	-16.50
18.00	64.00	-18.50
18.00	66.00	-20.50
18.00	68.00	-22.50
18.00	70.00	-24.50
18.00	72.00	-26.50
18.00	74.00	-28.50

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	20.62	48.34	68.96	34.48	165.65
12.00	18.0	32.00	40.37	72.38	36.19	153.12
14.00	18.0	36.55	36.71	73.26	36.63	146.67
16.00	18.0	38.61	32.60	71.20	35.60	136.39
18.00	18.0	42.19	5.37	47.56	23.78	58.31
20.00	18.0	45.65	4.61	50.26	25.13	59.47
22.00	18.0	47.67	3.09	50.77	25.38	56.96
24.00	18.0	47.76	6.00	53.75	26.88	65.74
26.00	18.0	47.76	4.32	52.08	26.04	60.73

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28.00	18.0	47.76	8.73	56.49	28.24	73.94	
30.00	18.0	47.76	17.34	65.10	32.55	99.78	
32.00	18.0	48.43	29.97	78.40	39.20	138.34	
34.00	18.0	50.91	41.28	92.19	46.09	174.74	
36.00	18.0	56.50	44.52	101.01	50.51	190.05	
38.00	18.0	62.88	41.82	104.70	52.35	188.33	
40.00	18.0	67.57	37.95	105.53	52.76	181.43	
42.00	18.0	71.00	34.00	105.00	52.50	172.99	
44.00	18.0	73.93	29.70	103.63	51.82	163.04	
46.00	18.0	74.91	25.46	100.36	50.18	151.28	
48.00	18.0	82.39	18.86	101.25	50.63	138.98	
50.00	18.0	82.39	20.46	102.85	51.43	143.78	
52.00	18.0	82.39	27.45	109.84	54.92	164.74	
54.00	18.0	85.18	38.79	123.97	61.99	201.56	
56.00	18.0	97.21	42.08	139.29	69.64	223.45	
58.00	18.0	111.41	42.76	154.17	77.08	239.69	
60.00	18.0	126.09	46.82	172.91	86.45	266.54	
62.00	18.0	140.12	54.25	194.37	97.18	302.86	
64.00	18.0	153.48	62.92	216.40	108.20	342.25	
66.00	18.0	168.48	67.93	236.41	118.20	372.27	
68.00	18.0	***** Not enough soil data *****					
70.00	18.0	0.00	0.00	0.00	0.00	0.00	
72.00	18.0	0.00	0.00	0.00	0.00	0.00	
74.00	18.0	0.00	0.00	0.00	0.00	0.00	

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
  4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....alculations-Analyses\FB-Deep\Wildlife No 2\WL2-B8\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 6-18-13, Boring Number: WL2-B8  
 Station number: 801+25 Offset: 130 LT

Ground Elevation: 40.000(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	5.00	3- Clean sand
2	2.00	5.00	3- Clean sand
3	4.00	7.00	3- Clean sand
4	6.00	10.00	3- Clean sand
5	8.00	9.00	2- Clay and silty sand
6	10.00	9.00	2- Clay and silty sand
7	11.25	3.00	3- Clean sand
8	12.50	3.00	2- Clay and silty sand
9	13.75	3.00	3- Clean sand
10	15.00	7.00	2- Clay and silty sand
11	16.25	4.00	3- Clean sand
12	17.50	4.00	2- Clay and silty sand
13	20.00	3.00	2- Clay and silty sand
14	22.50	2.00	2- Clay and silty sand
15	25.00	3.00	2- Clay and silty sand
16	26.25	3.00	3- Clean sand
17	27.50	6.00	2- Clay and silty sand



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18	30.00	16.00	3- Clean sand
19	32.50	21.00	3- Clean sand
20	33.75	4.00	2- Clay and silty sand
21	35.00	4.00	3- Clean sand
22	36.25	4.00	2- Clay and silty sand
23	37.50	9.00	3- Clean sand
24	40.00	14.00	3- Clean sand
25	41.25	4.00	2- Clay and silty sand
26	42.50	4.00	3- Clean sand
27	45.00	5.00	2- Clay and silty sand
28	47.50	9.00	2- Clay and silty sand
29	48.75	9.00	3- Clean sand
30	50.00	99.00	2- Clay and silty sand
31	52.50	99.00	2- Clay and silty sand
32	55.00	99.00	4- Lime Stone/Very shelly sand
33	57.50	99.00	2- Clay and silty sand
34	60.00	99.00	2- Clay and silty sand
35	62.50	99.00	2- Clay and silty sand
36	65.00	51.00	2- Clay and silty sand
37	67.50	65.00	2- Clay and silty sand
38	70.00	99.00	2- Clay and silty sand
39	72.50	99.00	2- Clay and silty sand
40	75.00	99.00	2- Clay and silty sand
41	77.50	99.00	2- Clay and silty sand
42	78.75	14.00	3- Clean sand
43	80.00	14.00	2- Clay and silty sand
44	81.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	40.00	32.00	8.00	6.75	3-Clean Sand
2	32.00	28.75	3.25	9.00	2-Clay and Silty Sand
3	28.75	27.50	1.25	3.00	3-Clean Sand
4	27.50	26.25	1.25	3.00	2-Clay and Silty Sand
5	26.25	25.00	1.25	3.00	3-Clean Sand
6	25.00	23.75	1.25	7.00	2-Clay and Silty Sand
7	23.75	22.50	1.25	4.00	3-Clean Sand
8	22.50	13.75	8.75	3.00	2-Clay and Silty Sand
9	13.75	12.50	1.25	3.00	3-Clean Sand
10	12.50	10.00	2.50	6.00	2-Clay and Silty Sand

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11	10.00	6.25	3.75	17.67	3-Clean Sand
12	6.25	5.00	1.25	4.00	2-Clay and Silty Sand
13	5.00	3.75	1.25	4.00	3-Clean Sand
14	3.75	2.50	1.25	4.00	2-Clay and Silty Sand
15	2.50	-1.25	3.75	10.67	3-Clean Sand
16	-1.25	-2.50	1.25	4.00	2-Clay and Silty Sand
17	-2.50	-5.00	2.50	4.00	3-Clean Sand
18	-5.00	-8.75	3.75	6.33	2-Clay and Silty Sand
19	-8.75	-10.00	1.25	9.00	3-Clean Sand
20	-10.00	-15.00	5.00	99.00	2-Clay and Silty Sand
21	-15.00	-17.50	2.50	99.00	4-Limestone, Very
Shelly Sand					
22	-17.50	-38.75	21.25	89.35	2-Clay and Silty Sand
23	-38.75	-40.00	1.25	14.00	3-Clean Sand
24	-40.00	-41.00	1.00	14.00	2-Clay and Silty Sand
25	-41.00	-41.00	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	30.00
18.00	12.00	28.00
18.00	14.00	26.00
18.00	16.00	24.00
18.00	18.00	22.00
18.00	20.00	20.00
18.00	22.00	18.00
18.00	24.00	16.00
18.00	26.00	14.00
18.00	28.00	12.00
18.00	30.00	10.00
18.00	32.00	8.00
18.00	34.00	6.00
18.00	36.00	4.00
18.00	38.00	2.00
18.00	40.00	0.00
18.00	42.00	-2.00
18.00	44.00	-4.00
18.00	46.00	-6.00
18.00	48.00	-8.00
18.00	50.00	-10.00

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18.00	52.00	-12.00
18.00	54.00	-14.00
18.00	56.00	-16.00
18.00	58.00	-18.00
18.00	60.00	-20.00
18.00	62.00	-22.00
18.00	64.00	-24.00
18.00	66.00	-26.00
18.00	68.00	-28.00
18.00	70.00	-30.00
18.00	72.00	-32.00
18.00	74.00	-34.00
18.00	76.00	-36.00
18.00	78.00	-38.00
18.00	80.00	-40.00

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	15.59	10.94	26.53	13.27	48.41
12.00	18.0	17.40	1.24	18.64	9.32	21.12
14.00	18.0	17.45	8.08	25.54	12.77	41.71
16.00	18.0	20.22	5.93	26.14	13.07	38.00
18.00	18.0	20.27	3.81	24.08	12.04	31.69
20.00	18.0	20.27	2.01	22.28	11.14	26.30
22.00	18.0	20.27	1.23	21.51	10.75	23.97
24.00	18.0	20.27	4.82	25.09	12.55	34.73
26.00	18.0	20.27	13.91	34.18	17.09	61.99
28.00	18.0	22.48	21.62	44.10	22.05	87.34
30.00	18.0	26.85	20.01	46.85	23.43	86.87
32.00	18.0	31.94	15.29	47.22	23.61	77.80
34.00	18.0	35.24	6.93	42.17	21.08	56.02
36.00	18.0	35.24	21.35	56.59	28.30	99.30
38.00	18.0	36.71	21.19	57.90	28.95	100.27
40.00	18.0	40.10	17.85	57.95	28.98	93.66
42.00	18.0	41.34	3.05	44.39	22.20	50.50
44.00	18.0	42.09	15.42	57.51	28.76	88.36
46.00	18.0	44.95	19.75	64.71	32.35	104.22
48.00	18.0	47.79	28.35	76.14	38.07	132.84
50.00	18.0	57.46	57.90	115.37	57.68	231.17

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52.00	18.0	70.99	61.77	132.76	66.38	256.29	
54.00	18.0	83.04	67.53	150.57	75.29	285.64	
56.00	18.0	95.87	70.50	166.37	83.18	307.36	
58.00	18.0	109.66	72.00	181.66	90.83	325.66	
60.00	18.0	125.37	72.00	197.37	98.69	341.37	
62.00	18.0	141.08	72.00	213.08	106.54	357.08	
64.00	18.0	156.79	72.00	228.79	114.40	372.79	
66.00	18.0	172.50	72.00	244.50	122.25	388.50	
68.00	18.0	188.21	72.00	260.21	130.10	404.21	
70.00	18.0	203.92	72.00	275.92	137.96	419.92	
72.00	18.0	219.63	72.00	291.63	145.81	435.63	
74.00	18.0	235.34	68.55	303.89	151.94	440.99	
76.00	18.0	***** Not enough soil data *****					
78.00	18.0	0.00	0.00	0.00	0.00	0.00	
80.00	18.0	0.00	0.00	0.00	0.00	0.00	

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
  4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....alculations-Analyses\FB-Deep\Wildlife No 2\WL2-B9\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 6-18-13, Boring Number: WL2-B9  
 Station number: 801+19 Offset: 65 RT

Ground Elevation: 45.100(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	14.00	3- Clean sand
2	2.00	14.00	3- Clean sand
3	4.00	19.00	3- Clean sand
4	6.00	11.00	3- Clean sand
5	8.00	13.00	3- Clean sand
6	10.00	12.00	3- Clean sand
7	12.50	11.00	2- Clay and silty sand
8	15.00	6.00	3- Clean sand
9	17.50	6.00	3- Clean sand
10	20.00	6.00	3- Clean sand
11	21.25	4.00	2- Clay and silty sand
12	22.50	4.00	3- Clean sand
13	25.00	2.00	3- Clean sand
14	27.50	2.00	2- Clay and silty sand
15	28.75	2.00	3- Clean sand
16	30.00	7.00	2- Clay and silty sand
17	32.50	8.00	2- Clay and silty sand

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18	35.00	36.00	3- Clean sand
19	36.25	18.00	2- Clay and silty sand
20	37.50	18.00	3- Clean sand
21	40.00	16.00	3- Clean sand
22	42.50	18.00	3- Clean sand
23	45.00	0.00	2- Clay and silty sand
24	47.50	0.00	2- Clay and silty sand
25	50.00	0.00	2- Clay and silty sand
26	52.50	1.00	2- Clay and silty sand
27	53.75	1.00	3- Clean sand
28	55.00	99.00	2- Clay and silty sand
29	57.50	99.00	2- Clay and silty sand
30	60.00	99.00	2- Clay and silty sand
31	62.50	99.00	2- Clay and silty sand
32	65.00	99.00	2- Clay and silty sand
33	67.50	70.00	2- Clay and silty sand
34	70.00	99.00	2- Clay and silty sand
35	72.50	99.00	2- Clay and silty sand
36	75.00	99.00	2- Clay and silty sand
37	76.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	45.10	32.60	12.50	13.76	3-Clean Sand
2	32.60	30.10	2.50	11.00	2-Clay and Silty Sand
3	30.10	23.85	6.25	6.00	3-Clean Sand
4	23.85	22.60	1.25	4.00	2-Clay and Silty Sand
5	22.60	17.60	5.00	3.00	3-Clean Sand
6	17.60	16.35	1.25	2.00	2-Clay and Silty Sand
7	16.35	15.10	1.25	2.00	3-Clean Sand
8	15.10	10.10	5.00	7.50	2-Clay and Silty Sand
9	10.10	8.85	1.25	36.00	3-Clean Sand
10	8.85	7.60	1.25	18.00	2-Clay and Silty Sand
11	7.60	0.10	7.50	17.33	3-Clean Sand
12	0.10	-8.65	8.75	0.14	2-Clay and Silty Sand
13	-8.65	-9.90	1.25	1.00	3-Clean Sand
14	-9.90	-30.90	21.00	95.55	2-Clay and Silty Sand
15	-30.90	-30.90	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	35.10
18.00	12.00	33.10
18.00	14.00	31.10
18.00	16.00	29.10
18.00	18.00	27.10
18.00	20.00	25.10
18.00	22.00	23.10
18.00	24.00	21.10
18.00	26.00	19.10
18.00	28.00	17.10
18.00	30.00	15.10
18.00	32.00	13.10
18.00	34.00	11.10
18.00	36.00	9.10
18.00	38.00	7.10
18.00	40.00	5.10
18.00	42.00	3.10
18.00	44.00	1.10
18.00	46.00	-0.90
18.00	48.00	-2.90
18.00	50.00	-4.90
18.00	52.00	-6.90
18.00	54.00	-8.90
18.00	56.00	-10.90
18.00	58.00	-12.90
18.00	60.00	-14.90
18.00	62.00	-16.90
18.00	64.00	-18.90
18.00	66.00	-20.90
18.00	68.00	-22.90
18.00	70.00	-24.90
18.00	72.00	-26.90
18.00	74.00	-28.90

Driven Pile Capacity:

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WL2-B9\_18-PCP.txt

Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	19.79	31.53	51.32	25.66	114.38
12.00	18.0	24.58	28.46	53.04	26.52	109.97
14.00	18.0	30.21	17.31	47.51	23.76	82.13
16.00	18.0	32.42	16.79	49.22	24.61	82.80
18.00	18.0	34.12	13.39	47.51	23.76	74.29
20.00	18.0	35.81	9.99	45.81	22.90	65.79
22.00	18.0	36.34	0.00	36.34	18.17	36.34
24.00	18.0	36.34	6.45	42.79	21.40	55.69
26.00	18.0	36.34	6.82	43.17	21.58	56.81
28.00	18.0	36.34	7.58	43.92	21.96	59.08
30.00	18.0	37.78	21.41	59.20	29.60	102.02
32.00	18.0	41.69	23.58	65.27	32.63	112.44
34.00	18.0	46.22	29.60	75.82	37.91	135.01
36.00	18.0	58.53	33.61	92.14	46.07	159.36
38.00	18.0	65.94	38.54	104.48	52.24	181.56
40.00	18.0	70.71	36.91	107.61	53.81	181.43
42.00	18.0	75.46	31.28	106.73	53.37	169.29
44.00	18.0	79.38	25.93	105.31	52.66	157.17
46.00	18.0	79.89	0.00	79.89	39.95	79.89
48.00	18.0	79.89	0.00	79.89	39.95	79.89
50.00	18.0	79.89	5.00	84.89	42.45	94.89
52.00	18.0	79.89	19.71	99.61	49.80	139.04
54.00	18.0	80.08	36.17	116.25	58.12	188.58
56.00	18.0	92.37	39.94	132.31	66.15	212.18
58.00	18.0	105.65	43.27	148.91	74.46	235.45
60.00	18.0	118.35	50.67	169.02	84.51	270.37
62.00	18.0	132.95	58.87	191.82	95.91	309.57
64.00	18.0	148.66	64.88	213.53	106.77	343.28
66.00	18.0	164.37	70.80	235.17	117.58	376.77
68.00	18.0	180.07	72.00	252.07	126.04	396.07
70.00	18.0	195.78	71.79	267.57	133.78	411.14
72.00	18.0	*****	Not enough soil data	*****		
74.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.



4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE  
ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B10\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 6-17-13, Boring Number: WL2-B10  
 Station number: 802+42 Offset: 128 LT

Ground Elevation: 40.300(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	5.00	3- Clean sand
2	2.00	5.00	3- Clean sand
3	4.00	9.00	3- Clean sand
4	6.00	6.00	3- Clean sand
5	8.00	7.00	3- Clean sand
6	10.00	12.00	3- Clean sand
7	12.50	8.00	2- Clay and silty sand
8	15.00	6.00	2- Clay and silty sand
9	17.50	4.00	3- Clean sand
10	20.00	5.00	3- Clean sand
11	22.50	6.00	2- Clay and silty sand
12	23.75	4.00	3- Clean sand
13	25.00	4.00	2- Clay and silty sand
14	27.50	16.00	3- Clean sand
15	30.00	14.00	3- Clean sand
16	32.50	21.00	3- Clean sand
17	35.00	22.00	3- Clean sand

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18	37.50	13.00	3- Clean sand
19	40.00	8.00	2- Clay and silty sand
20	42.50	2.00	1- Plastic Clay
21	45.00	8.00	2- Clay and silty sand
22	47.50	11.00	2- Clay and silty sand
23	48.75	11.00	3- Clean sand
24	50.00	99.00	2- Clay and silty sand
25	52.50	99.00	2- Clay and silty sand
26	55.00	99.00	2- Clay and silty sand
27	57.50	99.00	2- Clay and silty sand
28	60.00	99.00	2- Clay and silty sand
29	62.50	99.00	2- Clay and silty sand
30	65.00	99.00	2- Clay and silty sand
31	67.50	99.00	2- Clay and silty sand
32	70.00	99.00	2- Clay and silty sand
33	72.50	99.00	2- Clay and silty sand
34	75.00	99.00	2- Clay and silty sand
35	77.50	99.00	4- Lime Stone/Very shelly sand
36	80.00	99.00	4- Lime Stone/Very shelly sand
37	81.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	40.30	27.80	12.50	7.52	3-Clean Sand
2	27.80	22.80	5.00	7.00	2-Clay and Silty Sand
3	22.80	17.80	5.00	4.50	3-Clean Sand
4	17.80	16.55	1.25	6.00	2-Clay and Silty Sand
5	16.55	15.30	1.25	4.00	3-Clean Sand
6	15.30	12.80	2.50	4.00	2-Clay and Silty Sand
7	12.80	0.30	12.50	17.20	3-Clean Sand
8	0.30	-2.20	2.50	8.00	2-Clay and Silty Sand
9	-2.20	-4.70	2.50	2.00	1-Plastic Clay
10	-4.70	-8.45	3.75	9.00	2-Clay and Silty Sand
11	-8.45	-9.70	1.25	11.00	3-Clean Sand
12	-9.70	-37.20	27.50	99.00	2-Clay and Silty Sand
13	-37.20	-40.70	3.50	99.00	4-Limestone, Very
Shelly Sand					
14	-40.70	-40.70	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	30.30
18.00	12.00	28.30
18.00	14.00	26.30
18.00	16.00	24.30
18.00	18.00	22.30
18.00	20.00	20.30
18.00	22.00	18.30
18.00	24.00	16.30
18.00	26.00	14.30
18.00	28.00	12.30
18.00	30.00	10.30
18.00	32.00	8.30
18.00	34.00	6.30
18.00	36.00	4.30
18.00	38.00	2.30
18.00	40.00	0.30
18.00	42.00	-1.70
18.00	44.00	-3.70
18.00	46.00	-5.70
18.00	48.00	-7.70
18.00	50.00	-9.70
18.00	52.00	-11.70
18.00	54.00	-13.70
18.00	56.00	-15.70
18.00	58.00	-17.70
18.00	60.00	-19.70
18.00	62.00	-21.70
18.00	64.00	-23.70
18.00	66.00	-25.70
18.00	68.00	-27.70
18.00	70.00	-29.70
18.00	72.00	-31.70
18.00	74.00	-33.70
18.00	76.00	-35.70
18.00	78.00	-37.70
18.00	80.00	-39.70

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	9.78	18.92	28.69	14.35	66.52
12.00	18.0	13.85	15.20	29.05	14.52	59.45
14.00	18.0	18.57	7.43	26.00	13.00	40.85
16.00	18.0	21.91	7.92	29.83	14.92	45.67
18.00	18.0	23.69	13.01	36.70	18.35	62.72
20.00	18.0	24.53	10.58	35.12	17.56	56.28
22.00	18.0	26.98	11.42	38.40	19.20	61.25
24.00	18.0	29.16	13.26	42.42	21.21	68.93
26.00	18.0	29.55	21.47	51.02	25.51	93.97
28.00	18.0	33.05	29.61	62.65	31.33	121.86
30.00	18.0	36.17	31.20	67.38	33.69	129.79
32.00	18.0	39.51	33.81	73.32	36.66	140.93
34.00	18.0	44.72	34.78	79.50	39.75	149.06
36.00	18.0	51.41	33.29	84.70	42.35	151.27
38.00	18.0	57.54	30.56	88.10	44.05	149.22
40.00	18.0	62.80	6.25	69.05	34.53	81.54
42.00	18.0	65.35	6.84	72.19	36.09	85.87
44.00	18.0	67.19	25.51	92.71	46.35	143.73
46.00	18.0	71.79	29.48	101.28	50.64	160.24
48.00	18.0	76.60	34.04	110.64	55.32	178.71
50.00	18.0	85.86	44.60	130.46	65.23	219.67
52.00	18.0	100.46	45.98	146.44	73.22	238.39
54.00	18.0	113.59	50.95	164.54	82.27	266.44
56.00	18.0	126.97	59.88	186.85	93.42	306.60
58.00	18.0	142.68	64.95	207.63	103.81	337.52
60.00	18.0	158.39	69.60	227.99	113.99	367.18
62.00	18.0	174.10	72.00	246.10	123.05	390.10
64.00	18.0	189.81	72.00	261.81	130.91	405.81
66.00	18.0	205.52	72.00	277.52	138.76	421.52
68.00	18.0	221.23	72.00	293.23	146.61	437.23
70.00	18.0	236.94	72.11	309.05	154.52	453.26
72.00	18.0	252.65	80.68	333.33	166.66	494.68
74.00	18.0	268.36	97.71	366.07	183.04	561.50
76.00	18.0	*****	Not enough soil data	*****		
78.00	18.0	0.00	0.00	0.00	0.00	0.00
80.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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WL2-B10\_18-PCP.txt

1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B11\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 6-20-13, Boring Number: WL2-B11  
 Station number: 803+50 Offset: 62 LT

Ground Elevation: 41.000(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	5.00	3- Clean sand
2	2.00	5.00	3- Clean sand
3	4.00	8.00	3- Clean sand
4	6.00	10.00	3- Clean sand
5	7.00	10.00	2- Clay and silty sand
6	8.00	17.00	3- Clean sand
7	10.00	31.00	3- Clean sand
8	12.50	11.00	2- Clay and silty sand
9	15.00	9.00	2- Clay and silty sand
10	17.50	5.00	2- Clay and silty sand
11	18.75	4.00	3- Clean sand
12	20.00	4.00	2- Clay and silty sand
13	22.50	3.00	2- Clay and silty sand
14	25.00	3.00	2- Clay and silty sand
15	26.25	3.00	3- Clean sand
16	27.50	5.00	2- Clay and silty sand
17	30.00	12.00	2- Clay and silty sand

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18	32.50	16.00	3- Clean sand
19	35.00	23.00	2- Clay and silty sand
20	37.50	29.00	2- Clay and silty sand
21	40.00	16.00	2- Clay and silty sand
22	42.50	23.00	2- Clay and silty sand
23	45.00	20.00	2- Clay and silty sand
24	47.50	14.00	2- Clay and silty sand
25	50.00	13.00	2- Clay and silty sand
26	52.50	10.00	2- Clay and silty sand
27	55.00	11.00	2- Clay and silty sand
28	56.25	11.00	3- Clean sand
29	57.50	99.00	2- Clay and silty sand
30	60.00	99.00	2- Clay and silty sand
31	61.25	16.00	3- Clean sand
32	62.50	16.00	2- Clay and silty sand
33	63.75	16.00	3- Clean sand
34	65.00	99.00	2- Clay and silty sand
35	67.50	99.00	2- Clay and silty sand
36	70.00	99.00	2- Clay and silty sand
37	72.50	56.00	2- Clay and silty sand
38	75.00	99.00	2- Clay and silty sand
39	77.50	99.00	2- Clay and silty sand
40	80.00	99.00	2- Clay and silty sand
41	82.50	99.00	2- Clay and silty sand
42	85.00	19.00	4- Lime Stone/Very shelly sand
43	86.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	41.00	34.00	7.00	6.57	3-Clean Sand
2	34.00	33.00	1.00	10.00	2-Clay and Silty Sand
3	33.00	28.50	4.50	24.78	3-Clean Sand
4	28.50	22.25	6.25	9.00	2-Clay and Silty Sand
5	22.25	21.00	1.25	4.00	3-Clean Sand
6	21.00	14.75	6.25	3.40	2-Clay and Silty Sand
7	14.75	13.50	1.25	3.00	3-Clean Sand
8	13.50	8.50	5.00	8.50	2-Clay and Silty Sand
9	8.50	6.00	2.50	16.00	3-Clean Sand
10	6.00	-15.25	21.25	18.06	2-Clay and Silty Sand
11	-15.25	-16.50	1.25	11.00	3-Clean Sand



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12	-16.50	-20.25	3.75	99.00	2-Clay and Silty Sand
13	-20.25	-21.50	1.25	16.00	3-Clean Sand
14	-21.50	-22.75	1.25	16.00	2-Clay and Silty Sand
15	-22.75	-24.00	1.25	16.00	3-Clean Sand
16	-24.00	-44.00	20.00	93.63	2-Clay and Silty Sand
17	-44.00	-45.00	1.00	19.00	4-Limestone, Very
Shelly Sand					
18	-45.00	-45.00	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	31.00
18.00	12.00	29.00
18.00	14.00	27.00
18.00	16.00	25.00
18.00	18.00	23.00
18.00	20.00	21.00
18.00	22.00	19.00
18.00	24.00	17.00
18.00	26.00	15.00
18.00	28.00	13.00
18.00	30.00	11.00
18.00	32.00	9.00
18.00	34.00	7.00
18.00	36.00	5.00
18.00	38.00	3.00
18.00	40.00	1.00
18.00	42.00	-1.00
18.00	44.00	-3.00
18.00	46.00	-5.00
18.00	48.00	-7.00
18.00	50.00	-9.00
18.00	52.00	-11.00
18.00	54.00	-13.00
18.00	56.00	-15.00
18.00	58.00	-17.00
18.00	60.00	-19.00
18.00	62.00	-21.00
18.00	64.00	-23.00
18.00	66.00	-25.00

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18.00	68.00	-27.00
18.00	70.00	-29.00
18.00	72.00	-31.00
18.00	74.00	-33.00
18.00	76.00	-35.00
18.00	78.00	-37.00
18.00	80.00	-39.00
18.00	82.00	-41.00
18.00	84.00	-43.00

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
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10.00	18.0	17.66	32.78	50.44	25.22	116.00
12.00	18.0	25.67	25.47	51.14	25.57	102.07
14.00	18.0	32.35	11.99	44.34	22.17	68.33
16.00	18.0	38.00	8.82	46.81	23.41	64.45
18.00	18.0	41.74	6.18	47.92	23.96	60.28
20.00	18.0	42.12	14.44	56.56	28.28	85.43
22.00	18.0	42.12	8.77	50.89	25.44	68.43
24.00	18.0	42.12	5.62	47.74	23.87	58.97
26.00	18.0	42.12	8.33	50.45	25.22	67.10
28.00	18.0	44.01	13.27	57.28	28.64	83.82
30.00	18.0	48.09	15.97	64.06	32.03	95.99
32.00	18.0	52.48	21.32	73.80	36.90	116.45
34.00	18.0	62.20	25.05	87.25	43.63	137.36
36.00	18.0	74.06	34.90	108.97	54.48	178.77
38.00	18.0	87.49	34.87	122.36	61.18	192.10
40.00	18.0	98.69	33.27	131.95	65.98	198.49
42.00	18.0	109.18	31.60	140.77	70.39	203.97
44.00	18.0	121.03	29.12	150.15	75.07	208.39
46.00	18.0	131.94	26.72	158.65	79.33	212.09
48.00	18.0	140.94	24.39	165.33	82.66	214.11
50.00	18.0	149.06	21.93	171.00	85.50	214.87
52.00	18.0	156.35	24.53	180.88	90.44	229.95
54.00	18.0	162.85	34.18	197.03	98.52	265.39
56.00	18.0	168.93	41.61	210.53	105.27	293.75
58.00	18.0	179.17	39.77	218.94	109.47	298.49
60.00	18.0	194.74	40.83	235.57	117.79	317.23
62.00	18.0	203.44	48.40	251.84	125.92	348.63

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64.00	18.0	210.58	55.02	265.59	132.80	375.62
66.00	18.0	223.78	59.16	282.95	141.47	401.27
68.00	18.0	237.95	62.14	300.09	150.04	424.36
70.00	18.0	252.68	65.59	318.27	159.13	449.44
72.00	18.0	268.31	66.95	335.26	167.63	469.16
74.00	18.0	284.02	68.57	352.59	176.29	489.73
76.00	18.0	299.73	71.59	371.32	185.66	514.51
78.00	18.0	315.44	71.91	387.35	193.67	531.17
80.00	18.0	331.15	70.61	401.76	200.88	542.98
82.00	18.0	*****	Not enough soil data	*****		
84.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B12\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 6-18-13, Boring Number: WL2-B12  
 Station number: 803+48 Offset: 66 RT

Ground Elevation: 42.400(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	8.00	3- Clean sand
2	2.00	8.00	3- Clean sand
3	4.00	8.00	3- Clean sand
4	6.00	9.00	3- Clean sand
5	8.00	7.00	3- Clean sand
6	10.00	8.00	3- Clean sand
7	12.50	12.00	3- Clean sand
8	15.00	16.00	2- Clay and silty sand
9	17.50	17.00	2- Clay and silty sand
10	20.00	29.00	3- Clean sand
11	22.50	32.00	3- Clean sand
12	25.00	29.00	3- Clean sand
13	26.25	12.00	2- Clay and silty sand
14	27.50	12.00	3- Clean sand
15	30.00	10.00	3- Clean sand
16	32.50	7.00	3- Clean sand
17	35.00	2.00	2- Clay and silty sand

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18	37.50	4.00	2- Clay and silty sand
19	40.00	7.00	3- Clean sand
20	42.50	2.00	2- Clay and silty sand
21	43.75	2.00	3- Clean sand
22	45.00	13.00	2- Clay and silty sand
23	47.50	11.00	2- Clay and silty sand
24	50.00	5.00	2- Clay and silty sand
25	51.25	3.00	3- Clean sand
26	52.50	3.00	2- Clay and silty sand
27	55.00	2.00	2- Clay and silty sand
28	57.50	0.00	2- Clay and silty sand
29	60.00	0.00	2- Clay and silty sand
30	62.50	0.00	2- Clay and silty sand
31	65.00	0.00	2- Clay and silty sand
32	67.50	0.00	2- Clay and silty sand
33	70.00	2.00	2- Clay and silty sand
34	72.50	2.00	2- Clay and silty sand
35	75.00	0.00	2- Clay and silty sand
36	77.50	0.00	2- Clay and silty sand
37	80.00	0.00	2- Clay and silty sand
38	82.50	0.00	2- Clay and silty sand
39	85.00	0.00	2- Clay and silty sand
40	87.50	0.00	2- Clay and silty sand
41	90.00	0.00	2- Clay and silty sand
42	92.50	0.00	2- Clay and silty sand
43	95.00	0.00	2- Clay and silty sand
44	97.50	0.00	2- Clay and silty sand
45	100.00	0.00	2- Clay and silty sand
46	102.50	0.00	2- Clay and silty sand
47	105.00	0.00	2- Clay and silty sand
48	107.50	0.00	2- Clay and silty sand
49	110.00	0.00	2- Clay and silty sand
50	112.50	0.00	2- Clay and silty sand
51	115.00	99.00	4- Lime Stone/Very shelly sand
52	117.50	99.00	4- Lime Stone/Very shelly sand
53	118.75	7.00	3- Clean sand
54	120.00	7.00	4- Lime Stone/Very shelly sand
55	122.50	8.00	4- Lime Stone/Very shelly sand
56	125.00	13.00	4- Lime Stone/Very shelly sand
57	127.50	5.00	4- Lime Stone/Very shelly sand
58	128.75	5.00	3- Clean sand
59	130.00	99.00	4- Lime Stone/Very shelly sand
60	132.50	99.00	4- Lime Stone/Very shelly sand
61	135.00	99.00	4- Lime Stone/Very shelly sand
62	137.50	99.00	4- Lime Stone/Very shelly sand
63	138.75	16.00	3- Clean sand
64	140.00	16.00	4- Lime Stone/Very shelly sand
65	141.25	16.00	3- Clean sand

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66	142.50	34.00	4- Lime Stone/Very shelly sand
67	145.00	37.00	4- Lime Stone/Very shelly sand
68	147.50	26.00	4- Lime Stone/Very shelly sand
69	150.00	26.00	4- Lime Stone/Very shelly sand
70	151.25	26.00	3- Clean sand
71	152.50	99.00	4- Lime Stone/Very shelly sand
72	155.00	99.00	4- Lime Stone/Very shelly sand
73	156.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	42.40	27.40	15.00	8.67	3-Clean Sand
2	27.40	22.40	5.00	16.50	2-Clay and Silty Sand
3	22.40	16.15	6.25	30.20	3-Clean Sand
4	16.15	14.90	1.25	12.00	2-Clay and Silty Sand
5	14.90	7.40	7.50	9.67	3-Clean Sand
6	7.40	2.40	5.00	3.00	2-Clay and Silty Sand
7	2.40	-0.10	2.50	7.00	3-Clean Sand
8	-0.10	-1.35	1.25	2.00	2-Clay and Silty Sand
9	-1.35	-2.60	1.25	2.00	3-Clean Sand
10	-2.60	-8.85	6.25	10.60	2-Clay and Silty Sand
11	-8.85	-10.10	1.25	3.00	3-Clean Sand
12	-10.10	-72.60	62.50	0.36	2-Clay and Silty Sand
13	-72.60	-76.35	3.75	99.00	4-Limestone, Very Shelly Sand
14	-76.35	-77.60	1.25	7.00	3-Clean Sand
15	-77.60	-86.35	8.75	8.71	4-Limestone, Very Shelly Sand
16	-86.35	-87.60	1.25	5.00	3-Clean Sand
17	-87.60	-96.35	8.75	99.00	4-Limestone, Very Shelly Sand
18	-96.35	-97.60	1.25	16.00	3-Clean Sand
19	-97.60	-98.85	1.25	16.00	4-Limestone, Very Shelly Sand
20	-98.85	-100.10	1.25	16.00	3-Clean Sand
21	-100.10	-108.85	8.75	31.43	4-Limestone, Very Shelly Sand
22	-108.85	-110.10	1.25	26.00	3-Clean Sand
23	-110.10	-113.60	3.50	99.00	4-Limestone, Very Shelly Sand

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	32.40
18.00	12.00	30.40
18.00	14.00	28.40
18.00	16.00	26.40
18.00	18.00	24.40
18.00	20.00	22.40
18.00	22.00	20.40
18.00	24.00	18.40
18.00	26.00	16.40
18.00	28.00	14.40
18.00	30.00	12.40
18.00	32.00	10.40
18.00	34.00	8.40
18.00	36.00	6.40
18.00	38.00	4.40
18.00	40.00	2.40
18.00	42.00	0.40
18.00	44.00	-1.60
18.00	46.00	-3.60
18.00	48.00	-5.60
18.00	50.00	-7.60
18.00	52.00	-9.60
18.00	54.00	-11.60
18.00	56.00	-13.60
18.00	58.00	-15.60
18.00	60.00	-17.60
18.00	62.00	-19.60
18.00	64.00	-21.60
18.00	66.00	-23.60
18.00	68.00	-25.60
18.00	70.00	-27.60
18.00	72.00	-29.60
18.00	74.00	-31.60
18.00	76.00	-33.60
18.00	78.00	-35.60
18.00	80.00	-37.60

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18.00	82.00	-39.60
18.00	84.00	-41.60
18.00	86.00	-43.60
18.00	88.00	-45.60
18.00	90.00	-47.60
18.00	92.00	-49.60
18.00	94.00	-51.60
18.00	96.00	-53.60
18.00	98.00	-55.60
18.00	100.00	-57.60
18.00	102.00	-59.60
18.00	104.00	-61.60
18.00	106.00	-63.60
18.00	108.00	-65.60
18.00	110.00	-67.60
18.00	112.00	-69.60
18.00	114.00	-71.60
18.00	116.00	-73.60
18.00	118.00	-75.60
18.00	120.00	-77.60
18.00	122.00	-79.60
18.00	124.00	-81.60
18.00	126.00	-83.60
18.00	128.00	-85.60
18.00	130.00	-87.60
18.00	132.00	-89.60
18.00	134.00	-91.60
18.00	136.00	-93.60
18.00	138.00	-95.60
18.00	140.00	-97.60
18.00	142.00	-99.60
18.00	144.00	-101.60
18.00	146.00	-103.60
18.00	148.00	-105.60
18.00	150.00	-107.60
18.00	152.00	-109.60
18.00	154.00	-111.60

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
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WL2-B12\_18-PCP.txt

10.00	18.0	10.84	26.64	37.48	18.74	90.77
12.00	18.0	13.54	26.28	39.81	19.91	92.36
14.00	18.0	18.17	29.16	47.33	23.67	105.65
16.00	18.0	26.88	35.37	62.26	31.13	133.00
18.00	18.0	33.37	43.85	77.22	38.61	164.93
20.00	18.0	46.07	61.54	107.61	53.80	230.70
22.00	18.0	54.60	56.74	111.35	55.67	224.84
24.00	18.0	63.44	50.81	114.25	57.12	215.87
26.00	18.0	71.56	45.67	117.24	58.62	208.59
28.00	18.0	76.65	28.71	105.36	52.68	162.78
30.00	18.0	79.76	24.87	104.64	52.32	154.38
32.00	18.0	82.25	18.43	100.68	50.34	137.54
34.00	18.0	83.81	14.45	98.26	49.13	127.17
36.00	18.0	84.01	4.34	88.35	44.17	97.03
38.00	18.0	84.05	5.03	89.09	44.54	99.16
40.00	18.0	85.24	11.57	96.81	48.41	119.96
42.00	18.0	86.43	10.96	97.38	48.69	119.30
44.00	18.0	86.58	11.29	97.87	48.93	120.45
46.00	18.0	92.81	9.37	102.18	51.09	120.93
48.00	18.0	99.84	7.40	107.24	53.62	122.03
50.00	18.0	104.62	6.17	110.79	55.40	123.14
52.00	18.0	105.67	0.00	105.67	52.84	105.67
54.00	18.0	105.67	3.84	109.51	54.76	117.19
56.00	18.0	105.67	3.78	109.45	54.72	117.00
58.00	18.0	105.67	2.51	108.18	54.09	113.21
60.00	18.0	105.67	1.11	106.78	53.39	109.00
62.00	18.0	105.67	0.19	105.86	52.93	106.25
64.00	18.0	105.67	0.00	105.67	52.84	105.67
66.00	18.0	105.67	0.00	105.67	52.84	105.67
68.00	18.0	105.67	0.00	105.67	52.84	105.67
70.00	18.0	105.67	0.00	105.67	52.84	105.67
72.00	18.0	105.67	0.00	105.67	52.84	105.67
74.00	18.0	105.67	0.00	105.67	52.84	105.67
76.00	18.0	105.67	0.00	105.67	52.84	105.67
78.00	18.0	105.67	0.00	105.67	52.84	105.67
80.00	18.0	105.67	0.00	105.67	52.84	105.67
82.00	18.0	105.67	0.00	105.67	52.84	105.67
84.00	18.0	105.67	0.00	105.67	52.84	105.67
86.00	18.0	105.67	0.00	105.67	52.84	105.67
88.00	18.0	105.67	0.00	105.67	52.84	105.67
90.00	18.0	105.67	0.00	105.67	52.84	105.67
92.00	18.0	105.67	0.00	105.67	52.84	105.67
94.00	18.0	105.67	0.00	105.67	52.84	105.67
96.00	18.0	105.67	0.00	105.67	52.84	105.67
98.00	18.0	105.67	0.00	105.67	52.84	105.67
100.00	18.0	105.67	0.00	105.67	52.84	105.67
102.00	18.0	105.67	0.00	105.67	52.84	105.67

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104.00	18.0	105.67	0.00	105.67	52.84	105.67
106.00	18.0	105.67	0.00	105.67	52.84	105.67
108.00	18.0	105.67	1.74	107.41	53.70	110.88
110.00	18.0	105.67	23.14	128.81	64.41	175.10
112.00	18.0	105.67	54.00	159.67	79.84	267.67
114.00	18.0	107.29	65.85	173.14	86.57	304.84
116.00	18.0	113.77	54.74	168.51	84.25	277.98
118.00	18.0	120.71	43.32	164.03	82.01	250.66
120.00	18.0	122.98	46.58	169.56	84.78	262.72
122.00	18.0	124.02	47.27	171.29	85.64	265.82
124.00	18.0	125.28	48.47	173.74	86.87	270.67
126.00	18.0	126.21	63.05	189.26	94.63	315.37
128.00	18.0	126.86	83.02	209.88	104.94	375.91
130.00	18.0	131.37	98.97	230.34	115.17	428.29
132.00	18.0	137.96	101.28	239.24	119.62	441.80
134.00	18.0	144.78	103.24	248.02	124.01	454.51
136.00	18.0	152.97	98.41	251.38	125.69	448.20
138.00	18.0	160.04	96.25	256.29	128.14	448.78
140.00	18.0	164.19	110.64	274.84	137.42	496.13
142.00	18.0	168.10	119.08	287.18	143.59	525.35
144.00	18.0	173.24	110.59	283.82	141.91	505.00
146.00	18.0	178.54	100.32	278.86	139.43	479.50
148.00	18.0	182.77	102.43	285.20	142.60	490.05
150.00	18.0	186.64	110.45	297.09	148.55	517.99
152.00	18.0	*****	Not enough soil data	*****		
154.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
  4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....ulations-Analyses\FB-Deep\Wildlife No 2\WL2-B412a\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 7-21-14, Boring Number: WL2-B12a  
 Station number: 802+35 Offset: 65 RT

Ground Elevation: 44.000(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	4.00	3- Clean sand
2	2.00	4.00	3- Clean sand
3	3.00	4.00	2- Clay and silty sand
4	4.00	6.00	3- Clean sand
5	6.00	6.00	3- Clean sand
6	7.00	4.00	2- Clay and silty sand
7	8.00	4.00	3- Clean sand
8	10.00	5.00	2- Clay and silty sand
9	12.50	9.00	2- Clay and silty sand
10	15.00	6.00	2- Clay and silty sand
11	16.25	4.00	3- Clean sand
12	17.50	4.00	2- Clay and silty sand
13	20.00	5.00	2- Clay and silty sand
14	22.50	3.00	2- Clay and silty sand
15	25.00	3.00	2- Clay and silty sand
16	27.50	3.00	2- Clay and silty sand
17	30.00	4.00	2- Clay and silty sand

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18	31.25	4.00	3- Clean sand
19	32.50	10.00	2- Clay and silty sand
20	35.00	17.00	3- Clean sand
21	37.50	18.00	3- Clean sand
22	40.00	18.00	3- Clean sand
23	41.25	18.00	2- Clay and silty sand
24	42.50	41.00	3- Clean sand
25	45.00	37.00	3- Clean sand
26	47.50	3.00	2- Clay and silty sand
27	50.00	1.00	2- Clay and silty sand
28	52.50	1.00	2- Clay and silty sand
29	55.00	4.00	2- Clay and silty sand
30	57.50	99.00	1- Plastic Clay
31	60.00	99.00	1- Plastic Clay
32	62.50	99.00	2- Clay and silty sand
33	65.00	99.00	2- Clay and silty sand
34	67.50	99.00	2- Clay and silty sand
35	70.00	99.00	2- Clay and silty sand
36	72.50	99.00	2- Clay and silty sand
37	75.00	99.00	4- Lime Stone/Very shelly sand
38	77.50	8.00	2- Clay and silty sand
39	78.75	0.00	3- Clean sand
40	80.00	0.00	2- Clay and silty sand
41	82.50	7.00	4- Lime Stone/Very shelly sand
42	85.00	0.00	2- Clay and silty sand
43	87.50	0.00	2- Clay and silty sand
44	90.00	5.00	4- Lime Stone/Very shelly sand
45	91.25	1.00	3- Clean sand
46	92.50	1.00	4- Lime Stone/Very shelly sand
47	95.00	0.00	4- Lime Stone/Very shelly sand
48	96.25	0.00	3- Clean sand
49	97.50	16.00	4- Lime Stone/Very shelly sand
50	100.00	22.00	4- Lime Stone/Very shelly sand
51	102.50	32.00	4- Lime Stone/Very shelly sand
52	103.75	32.00	3- Clean sand
53	105.00	99.00	4- Lime Stone/Very shelly sand
54	106.25	25.00	3- Clean sand
55	107.50	25.00	4- Lime Stone/Very shelly sand
56	108.75	25.00	3- Clean sand
57	110.00	99.00	4- Lime Stone/Very shelly sand
58	111.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

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Layer	Starting	Bottom	Thickness	Average	Soil Type
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Num.	Elevation (ft)	Elevation (ft)	(ft)	Blowcount (Blows/ft)	
1	44.00	41.00	3.00	4.00	3-Clean Sand
2	41.00	40.00	1.00	4.00	2-Clay and Silty Sand
3	40.00	37.00	3.00	6.00	3-Clean Sand
4	37.00	36.00	1.00	4.00	2-Clay and Silty Sand
5	36.00	34.00	2.00	4.00	3-Clean Sand
6	34.00	27.75	6.25	6.80	2-Clay and Silty Sand
7	27.75	26.50	1.25	4.00	3-Clean Sand
8	26.50	12.75	13.75	3.64	2-Clay and Silty Sand
9	12.75	11.50	1.25	4.00	3-Clean Sand
10	11.50	9.00	2.50	10.00	2-Clay and Silty Sand
11	9.00	2.75	6.25	17.60	3-Clean Sand
12	2.75	1.50	1.25	18.00	2-Clay and Silty Sand
13	1.50	-3.50	5.00	39.00	3-Clean Sand
14	-3.50	-13.50	10.00	2.25	2-Clay and Silty Sand
15	-13.50	-18.50	5.00	99.00	1-Plastic Clay
16	-18.50	-31.00	12.50	99.00	2-Clay and Silty Sand
17	-31.00	-33.50	2.50	99.00	4-Limestone, Very
Shelly Sand					
18	-33.50	-34.75	1.25	8.00	2-Clay and Silty Sand
19	-34.75	-36.00	1.25	0.00	3-Clean Sand
20	-36.00	-38.50	2.50	0.00	2-Clay and Silty Sand
21	-38.50	-41.00	2.50	7.00	4-Limestone, Very
Shelly Sand					
22	-41.00	-46.00	5.00	0.00	2-Clay and Silty Sand
23	-46.00	-47.25	1.25	5.00	4-Limestone, Very
Shelly Sand					
24	-47.25	-48.50	1.25	1.00	3-Clean Sand
25	-48.50	-52.25	3.75	0.67	4-Limestone, Very
Shelly Sand					
26	-52.25	-53.50	1.25	0.00	3-Clean Sand
27	-53.50	-59.75	6.25	21.60	4-Limestone, Very
Shelly Sand					
28	-59.75	-61.00	1.25	32.00	3-Clean Sand
29	-61.00	-62.25	1.25	99.00	4-Limestone, Very
Shelly Sand					
30	-62.25	-63.50	1.25	25.00	3-Clean Sand
31	-63.50	-64.75	1.25	25.00	4-Limestone, Very
Shelly Sand					
32	-64.75	-66.00	1.25	25.00	3-Clean Sand
33	-66.00	-67.00	1.00	99.00	4-Limestone, Very
Shelly Sand					
34	-67.00	-67.00	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	34.00
18.00	12.00	32.00
18.00	14.00	30.00
18.00	16.00	28.00
18.00	18.00	26.00
18.00	20.00	24.00
18.00	22.00	22.00
18.00	24.00	20.00
18.00	26.00	18.00
18.00	28.00	16.00
18.00	30.00	14.00
18.00	32.00	12.00
18.00	34.00	10.00
18.00	36.00	8.00
18.00	38.00	6.00
18.00	40.00	4.00
18.00	42.00	2.00
18.00	44.00	0.00
18.00	46.00	-2.00
18.00	48.00	-4.00
18.00	50.00	-6.00
18.00	52.00	-8.00
18.00	54.00	-10.00
18.00	56.00	-12.00
18.00	58.00	-14.00
18.00	60.00	-16.00
18.00	62.00	-18.00
18.00	64.00	-20.00
18.00	66.00	-22.00
18.00	68.00	-24.00
18.00	70.00	-26.00
18.00	72.00	-28.00
18.00	74.00	-30.00
18.00	76.00	-32.00
18.00	78.00	-34.00
18.00	80.00	-36.00
18.00	82.00	-38.00
18.00	84.00	-40.00
18.00	86.00	-42.00

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18.00	88.00	-44.00
18.00	90.00	-46.00
18.00	92.00	-48.00
18.00	94.00	-50.00
18.00	96.00	-52.00
18.00	98.00	-54.00
18.00	100.00	-56.00
18.00	102.00	-58.00
18.00	104.00	-60.00
18.00	106.00	-62.00
18.00	108.00	-64.00
18.00	110.00	-66.00

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	4.23	8.38	12.61	6.30	29.37
12.00	18.0	8.56	7.16	15.72	7.86	30.04
14.00	18.0	13.88	6.28	20.16	10.08	32.72
16.00	18.0	17.25	6.21	23.46	11.73	35.89
18.00	18.0	17.39	4.91	22.30	11.15	32.13
20.00	18.0	19.41	4.06	23.47	11.74	31.60
22.00	18.0	21.43	3.27	24.70	12.35	31.25
24.00	18.0	21.51	2.44	23.95	11.98	28.82
26.00	18.0	21.51	1.42	22.93	11.47	25.76
28.00	18.0	21.51	3.12	24.63	12.31	30.86
30.00	18.0	21.51	10.65	32.16	16.08	53.46
32.00	18.0	22.11	16.90	39.01	19.51	72.82
34.00	18.0	27.15	23.45	50.60	25.30	97.49
36.00	18.0	32.83	30.22	63.05	31.53	123.50
38.00	18.0	35.96	32.96	68.93	34.46	134.86
40.00	18.0	38.05	40.68	78.73	39.37	160.10
42.00	18.0	51.79	64.14	115.93	57.97	244.21
44.00	18.0	63.06	51.86	114.92	57.46	218.63
46.00	18.0	72.59	39.26	111.85	55.93	190.38
48.00	18.0	74.94	0.00	74.94	37.47	74.94
50.00	18.0	74.94	0.02	74.96	37.48	74.99
52.00	18.0	74.94	2.28	77.22	38.61	81.78
54.00	18.0	74.94	9.00	83.94	41.97	101.94
56.00	18.0	76.11	15.98	92.08	46.04	124.03

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58.00	18.0	90.52	27.01	117.53	58.77	171.55
60.00	18.0	105.28	34.56	139.84	69.92	208.95
62.00	18.0	121.70	44.70	166.40	83.20	255.81
64.00	18.0	140.56	47.44	187.99	94.00	282.87
66.00	18.0	153.58	52.44	206.02	103.01	310.89
68.00	18.0	166.55	62.08	228.63	114.32	352.79
70.00	18.0	181.47	79.19	260.66	130.33	419.05
72.00	18.0	197.18	85.42	282.59	141.30	453.43
74.00	18.0	211.12	72.73	283.85	141.93	429.31
76.00	18.0	225.95	52.73	278.68	139.34	384.13
78.00	18.0	231.21	8.16	239.37	119.68	255.68
80.00	18.0	231.92	40.64	272.56	136.28	353.83
82.00	18.0	232.34	33.63	265.97	132.99	333.23
84.00	18.0	233.12	26.72	259.85	129.92	313.29
86.00	18.0	233.23	2.99	236.22	118.11	242.19
88.00	18.0	233.25	3.05	236.29	118.15	242.39
90.00	18.0	233.69	4.42	238.11	119.06	246.96
92.00	18.0	233.92	0.40	234.33	117.16	235.14
94.00	18.0	233.92	9.53	243.46	121.73	262.52
96.00	18.0	233.92	16.52	250.44	125.22	283.47
98.00	18.0	235.24	42.08	277.32	138.66	361.49
100.00	18.0	237.22	47.43	284.65	142.33	379.51
102.00	18.0	239.86	55.71	295.57	147.79	406.99
104.00	18.0	248.63	72.91	321.54	160.77	467.35
106.00	18.0	*****	Not enough soil data	*****		
108.00	18.0	0.00	0.00	0.00	0.00	0.00
110.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.



General Information:

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Input file: .....culations-Analyses\FB-Deep\Wildlife No 2\WL2-B12b\_18&24PCP.spc  
Project number: H1135080  
Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
Engineer: EJ  
Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 7-22-14, Boring Number: WL2-B12b  
Station number: 804+60 Offset: 65 RT

Ground Elevation: 41.000(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	4.00	5- Cavity layer
2	2.00	4.00	5- Cavity layer
3	4.00	8.00	3- Clean sand
4	6.00	8.00	3- Clean sand
5	8.00	6.00	3- Clean sand
6	10.00	8.00	3- Clean sand
7	12.50	5.00	3- Clean sand
8	15.00	17.00	2- Clay and silty sand
9	17.50	29.00	2- Clay and silty sand
10	20.00	32.00	2- Clay and silty sand
11	22.50	25.00	2- Clay and silty sand
12	25.00	6.00	1- Plastic Clay
13	27.50	17.00	3- Clean sand
14	30.00	10.00	3- Clean sand
15	32.50	17.00	2- Clay and silty sand
16	33.75	4.00	3- Clean sand
17	35.00	4.00	2- Clay and silty sand

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18	37.50	5.00	2- Clay and silty sand
19	38.75	5.00	3- Clean sand
20	40.00	11.00	2- Clay and silty sand
21	41.25	2.00	3- Clean sand
22	42.50	2.00	2- Clay and silty sand
23	45.00	2.00	2- Clay and silty sand
24	47.50	2.00	2- Clay and silty sand
25	50.00	1.00	2- Clay and silty sand
26	52.50	2.00	2- Clay and silty sand
27	55.00	1.00	2- Clay and silty sand
28	57.50	1.00	2- Clay and silty sand
29	60.00	1.00	2- Clay and silty sand
30	61.25	1.00	3- Clean sand
31	62.50	5.00	2- Clay and silty sand
32	65.00	5.00	2- Clay and silty sand
33	67.50	5.00	2- Clay and silty sand
34	68.75	3.00	3- Clean sand
35	70.00	3.00	2- Clay and silty sand
36	72.50	4.00	2- Clay and silty sand
37	75.00	17.00	3- Clean sand
38	77.50	28.00	3- Clean sand
39	80.00	20.00	3- Clean sand
40	81.25	6.00	2- Clay and silty sand
41	82.50	6.00	3- Clean sand
42	83.75	6.00	2- Clay and silty sand
43	85.00	19.00	3- Clean sand
44	87.50	8.00	2- Clay and silty sand
45	88.75	0.00	3- Clean sand
46	90.00	0.00	2- Clay and silty sand
47	92.50	16.00	4- Lime Stone/Very shelly sand
48	95.00	18.00	4- Lime Stone/Very shelly sand
49	97.50	20.00	4- Lime Stone/Very shelly sand
50	100.00	23.00	4- Lime Stone/Very shelly sand
51	102.50	10.00	2- Clay and silty sand
52	103.75	5.00	3- Clean sand
53	105.00	5.00	2- Clay and silty sand
54	107.50	4.00	2- Clay and silty sand
55	110.00	8.00	3- Clean sand
56	111.25	0.00	2- Clay and silty sand
57	112.50	0.00	3- Clean sand
58	113.75	0.00	2- Clay and silty sand
59	115.00	11.00	3- Clean sand
60	117.50	10.00	3- Clean sand
61	120.00	3.00	2- Clay and silty sand
62	121.25	3.00	3- Clean sand
63	122.50	8.00	2- Clay and silty sand
64	125.00	8.00	2- Clay and silty sand
65	126.25	0.00	3- Clean sand

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66	127.50	0.00	2- Clay and silty sand
67	130.00	3.00	2- Clay and silty sand
68	132.50	2.00	2- Clay and silty sand
69	135.00	4.00	2- Clay and silty sand
70	136.25	4.00	3- Clean sand
71	137.50	7.00	2- Clay and silty sand
72	138.75	7.00	3- Clean sand
73	140.00	26.00	2- Clay and silty sand
74	141.25	9.00	3- Clean sand
75	142.50	9.00	2- Clay and silty sand
76	143.75	9.00	3- Clean sand
77	145.00	32.00	2- Clay and silty sand
78	147.50	37.00	3- Clean sand
79	150.00	35.00	3- Clean sand
80	152.50	38.00	3- Clean sand
81	155.00	42.00	3- Clean sand
82	157.50	49.00	3- Clean sand
83	158.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	41.00	37.00	4.00	4.00	5-Void
2	37.00	26.00	11.00	6.95	3-Clean Sand
3	26.00	16.00	10.00	25.75	2-Clay and Silty Sand
4	16.00	13.50	2.50	6.00	1-Plastic Clay
5	13.50	8.50	5.00	13.50	3-Clean Sand
6	8.50	7.25	1.25	17.00	2-Clay and Silty Sand
7	7.25	6.00	1.25	4.00	3-Clean Sand
8	6.00	2.25	3.75	4.33	2-Clay and Silty Sand
9	2.25	1.00	1.25	5.00	3-Clean Sand
10	1.00	-0.25	1.25	11.00	2-Clay and Silty Sand
11	-0.25	-1.50	1.25	2.00	3-Clean Sand
12	-1.50	-20.25	18.75	1.53	2-Clay and Silty Sand
13	-20.25	-21.50	1.25	1.00	3-Clean Sand
14	-21.50	-27.75	6.25	5.00	2-Clay and Silty Sand
15	-27.75	-29.00	1.25	3.00	3-Clean Sand
16	-29.00	-34.00	5.00	3.50	2-Clay and Silty Sand
17	-34.00	-40.25	6.25	22.00	3-Clean Sand
18	-40.25	-41.50	1.25	6.00	2-Clay and Silty Sand
19	-41.50	-42.75	1.25	6.00	3-Clean Sand

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20	-42.75	-44.00	1.25	6.00	2-Clay and Silty Sand
21	-44.00	-46.50	2.50	19.00	3-Clean Sand
22	-46.50	-47.75	1.25	8.00	2-Clay and Silty Sand
23	-47.75	-49.00	1.25	0.00	3-Clean Sand
24	-49.00	-51.50	2.50	0.00	2-Clay and Silty Sand
25	-51.50	-61.50	10.00	19.25	4-Limestone, Very
Shelly Sand					
26	-61.50	-62.75	1.25	10.00	2-Clay and Silty Sand
27	-62.75	-64.00	1.25	5.00	3-Clean Sand
28	-64.00	-69.00	5.00	4.50	2-Clay and Silty Sand
29	-69.00	-70.25	1.25	8.00	3-Clean Sand
30	-70.25	-71.50	1.25	0.00	2-Clay and Silty Sand
31	-71.50	-72.75	1.25	0.00	3-Clean Sand
32	-72.75	-74.00	1.25	0.00	2-Clay and Silty Sand
33	-74.00	-79.00	5.00	10.50	3-Clean Sand
34	-79.00	-80.25	1.25	3.00	2-Clay and Silty Sand
35	-80.25	-81.50	1.25	3.00	3-Clean Sand
36	-81.50	-85.25	3.75	8.00	2-Clay and Silty Sand
37	-85.25	-86.50	1.25	0.00	3-Clean Sand
38	-86.50	-95.25	8.75	2.00	2-Clay and Silty Sand
39	-95.25	-96.50	1.25	4.00	3-Clean Sand
40	-96.50	-97.75	1.25	7.00	2-Clay and Silty Sand
41	-97.75	-99.00	1.25	7.00	3-Clean Sand
42	-99.00	-100.25	1.25	26.00	2-Clay and Silty Sand
43	-100.25	-101.50	1.25	9.00	3-Clean Sand
44	-101.50	-102.75	1.25	9.00	2-Clay and Silty Sand
45	-102.75	-104.00	1.25	9.00	3-Clean Sand
46	-104.00	-106.50	2.50	32.00	2-Clay and Silty Sand
47	-106.50	-117.00	10.50	38.52	3-Clean Sand
48	-117.00	-117.00	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	31.00
18.00	12.00	29.00
18.00	14.00	27.00
18.00	16.00	25.00
18.00	18.00	23.00
18.00	20.00	21.00
18.00	22.00	19.00

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18.00	24.00	17.00
18.00	26.00	15.00
18.00	28.00	13.00
18.00	30.00	11.00
18.00	32.00	9.00
18.00	34.00	7.00
18.00	36.00	5.00
18.00	38.00	3.00
18.00	40.00	1.00
18.00	42.00	-1.00
18.00	44.00	-3.00
18.00	46.00	-5.00
18.00	48.00	-7.00
18.00	50.00	-9.00
18.00	52.00	-11.00
18.00	54.00	-13.00
18.00	56.00	-15.00
18.00	58.00	-17.00
18.00	60.00	-19.00
18.00	62.00	-21.00
18.00	64.00	-23.00
18.00	66.00	-25.00
18.00	68.00	-27.00
18.00	70.00	-29.00
18.00	72.00	-31.00
18.00	74.00	-33.00
18.00	76.00	-35.00
18.00	78.00	-37.00
18.00	80.00	-39.00
18.00	82.00	-41.00
18.00	84.00	-43.00
18.00	86.00	-45.00
18.00	88.00	-47.00
18.00	90.00	-49.00
18.00	92.00	-51.00
18.00	94.00	-53.00
18.00	96.00	-55.00
18.00	98.00	-57.00
18.00	100.00	-59.00
18.00	102.00	-61.00
18.00	104.00	-63.00
18.00	106.00	-65.00
18.00	108.00	-67.00
18.00	110.00	-69.00
18.00	112.00	-71.00
18.00	114.00	-73.00
18.00	116.00	-75.00
18.00	118.00	-77.00

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18.00	120.00	-79.00
18.00	122.00	-81.00
18.00	124.00	-83.00
18.00	126.00	-85.00
18.00	128.00	-87.00
18.00	130.00	-89.00
18.00	132.00	-91.00
18.00	134.00	-93.00
18.00	136.00	-95.00
18.00	138.00	-97.00
18.00	140.00	-99.00
18.00	142.00	-101.00
18.00	144.00	-103.00
18.00	146.00	-105.00
18.00	148.00	-107.00
18.00	150.00	-109.00
18.00	152.00	-111.00
18.00	154.00	-113.00
18.00	156.00	-115.00
18.00	158.00	-117.00
18.00	160.00	-119.00

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	6.43	16.44	22.88	11.44	55.76
12.00	18.0	7.75	20.03	27.79	13.89	67.86
14.00	18.0	10.40	27.40	37.80	18.90	92.60
16.00	18.0	21.69	30.71	52.40	26.20	113.82
18.00	18.0	33.86	31.78	65.64	32.82	129.20
20.00	18.0	49.36	29.28	78.63	39.32	137.19
22.00	18.0	63.26	28.07	91.33	45.67	147.48
24.00	18.0	74.27	31.54	105.81	52.91	168.90
26.00	18.0	79.69	24.82	104.51	52.26	154.16
28.00	18.0	84.39	32.57	116.96	58.48	182.11
30.00	18.0	88.01	25.47	113.48	56.74	164.42
32.00	18.0	93.63	19.36	112.99	56.50	151.72
34.00	18.0	98.98	2.94	101.92	50.96	107.79
36.00	18.0	99.32	15.96	115.27	57.64	147.19
38.00	18.0	101.83	14.31	116.14	58.07	144.76

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40.00	18.0	105.17	1.95	107.12	53.56	111.02
42.00	18.0	107.32	0.00	107.32	53.66	107.32
44.00	18.0	107.32	3.40	110.73	55.36	117.53
46.00	18.0	107.32	2.21	109.53	54.77	113.95
48.00	18.0	107.32	2.15	109.47	54.73	113.76
50.00	18.0	107.32	1.64	108.96	54.48	112.23
52.00	18.0	107.32	0.43	107.75	53.87	108.60
54.00	18.0	107.32	0.00	107.32	53.66	107.32
56.00	18.0	107.32	0.00	107.32	53.66	107.32
58.00	18.0	107.32	0.97	108.30	54.15	110.25
60.00	18.0	107.32	2.39	109.71	54.86	114.50
62.00	18.0	107.66	3.31	110.97	55.49	117.60
64.00	18.0	110.90	3.58	114.49	57.24	121.65
66.00	18.0	114.27	2.78	117.06	58.53	122.63
68.00	18.0	117.47	2.57	120.04	60.02	125.18
70.00	18.0	117.85	9.20	127.06	63.53	145.47
72.00	18.0	117.85	13.46	131.31	65.65	158.22
74.00	18.0	118.40	26.48	144.88	72.44	197.83
76.00	18.0	123.57	37.88	161.45	80.72	237.20
78.00	18.0	130.73	31.86	162.59	81.30	226.31
80.00	18.0	137.29	29.57	166.86	83.43	226.01
82.00	18.0	141.55	19.87	161.42	80.71	201.16
84.00	18.0	144.38	32.80	177.18	88.59	242.78
86.00	18.0	149.46	28.88	178.34	89.17	236.11
88.00	18.0	154.44	15.29	169.73	84.86	200.31
90.00	18.0	155.02	35.88	190.90	95.45	262.67
92.00	18.0	155.89	37.24	193.13	96.57	267.61
94.00	18.0	158.19	41.58	199.77	99.89	282.94
96.00	18.0	160.34	44.57	204.91	102.46	294.05
98.00	18.0	163.53	43.10	206.63	103.32	292.84
100.00	18.0	167.21	37.16	204.37	102.18	278.69
102.00	18.0	171.79	32.17	203.96	101.98	268.31
104.00	18.0	175.85	6.58	182.43	91.22	195.58
106.00	18.0	178.57	7.55	186.12	93.06	201.21
108.00	18.0	179.38	5.89	185.27	92.64	197.04
110.00	18.0	180.74	17.99	198.74	99.37	234.72
112.00	18.0	181.45	8.68	190.13	95.06	207.48
114.00	18.0	181.49	16.61	198.10	99.05	231.32
116.00	18.0	183.95	12.80	196.74	98.37	222.33
118.00	18.0	186.77	10.49	197.26	98.63	218.24
120.00	18.0	187.90	7.60	195.49	97.75	210.69
122.00	18.0	188.48	10.39	198.87	99.43	219.64
124.00	18.0	193.42	8.55	201.98	100.99	219.08
126.00	18.0	197.58	7.50	205.08	102.54	220.08
128.00	18.0	197.65	5.33	202.97	101.49	213.62
130.00	18.0	197.65	2.85	200.50	100.25	206.20
132.00	18.0	197.65	2.26	199.90	99.95	204.42
134.00	18.0	197.65	5.39	203.04	101.52	213.82

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136.00	18.0	197.65	10.73	208.37	104.19	229.82	
138.00	18.0	200.07	12.46	212.53	106.27	237.46	
140.00	18.0	205.86	16.95	222.82	111.41	256.72	
142.00	18.0	212.08	35.20	247.28	123.64	317.67	
144.00	18.0	216.41	45.15	261.56	130.78	351.87	
146.00	18.0	227.51	56.31	283.81	141.91	396.42	
148.00	18.0	239.50	70.73	310.24	155.12	451.71	
150.00	18.0	247.79	72.57	320.36	160.18	465.51	
152.00	18.0	254.59	77.09	331.68	165.84	485.87	
154.00	18.0	***** Not enough soil data *****					
156.00	18.0	0.00	0.00	0.00	0.00	0.00	
158.00	18.0	0.00	0.00	0.00	0.00	0.00	
160.00	18.0	0.00	0.00	0.00	0.00	0.00	

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.



General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B13\_18&24PCP.spc  
Project number: H1135080  
Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
Engineer: EJ  
Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 6-21-13, Boring Number: WL2-B13  
Station number: 804+67 Offset: 134 LT

Ground Elevation: 42.800(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	6.00	3- Clean sand
2	2.00	6.00	3- Clean sand
3	4.00	9.00	3- Clean sand
4	6.00	13.00	3- Clean sand
5	8.00	15.00	3- Clean sand
6	10.00	10.00	3- Clean sand
7	12.50	16.00	2- Clay and silty sand
8	15.00	13.00	2- Clay and silty sand
9	17.50	10.00	2- Clay and silty sand
10	20.00	6.00	2- Clay and silty sand
11	21.25	4.00	3- Clean sand
12	22.50	4.00	2- Clay and silty sand
13	25.00	4.00	2- Clay and silty sand
14	26.25	4.00	3- Clean sand
15	27.50	6.00	2- Clay and silty sand
16	28.75	4.00	3- Clean sand
17	30.00	4.00	2- Clay and silty sand

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18	32.50	3.00	2- Clay and silty sand
19	33.75	3.00	3- Clean sand
20	35.00	11.00	2- Clay and silty sand
21	37.50	8.00	2- Clay and silty sand
22	40.00	20.00	2- Clay and silty sand
23	42.50	20.00	2- Clay and silty sand
24	45.00	9.00	2- Clay and silty sand
25	47.50	8.00	2- Clay and silty sand
26	50.00	12.00	2- Clay and silty sand
27	51.25	12.00	3- Clean sand
28	52.50	99.00	2- Clay and silty sand
29	55.00	99.00	2- Clay and silty sand
30	56.25	25.00	3- Clean sand
31	57.50	25.00	2- Clay and silty sand
32	58.75	25.00	3- Clean sand
33	60.00	99.00	2- Clay and silty sand
34	62.50	99.00	4- Lime Stone/Very shelly sand
35	65.00	99.00	4- Lime Stone/Very shelly sand
36	67.50	99.00	2- Clay and silty sand
37	70.00	73.00	2- Clay and silty sand
38	72.50	99.00	2- Clay and silty sand
39	75.00	99.00	2- Clay and silty sand
40	77.50	72.00	2- Clay and silty sand
41	80.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	42.80	30.30	12.50	9.84	3-Clean Sand
2	30.30	21.55	8.75	12.00	2-Clay and Silty Sand
3	21.55	20.30	1.25	4.00	3-Clean Sand
4	20.30	16.55	3.75	4.00	2-Clay and Silty Sand
5	16.55	15.30	1.25	4.00	3-Clean Sand
6	15.30	14.05	1.25	6.00	2-Clay and Silty Sand
7	14.05	12.80	1.25	4.00	3-Clean Sand
8	12.80	9.05	3.75	3.67	2-Clay and Silty Sand
9	9.05	7.80	1.25	3.00	3-Clean Sand
10	7.80	-8.45	16.25	12.62	2-Clay and Silty Sand
11	-8.45	-9.70	1.25	12.00	3-Clean Sand
12	-9.70	-13.45	3.75	99.00	2-Clay and Silty Sand
13	-13.45	-14.70	1.25	25.00	3-Clean Sand

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14	-14.70	-15.95	1.25	25.00	2-Clay and Silty Sand
15	-15.95	-17.20	1.25	25.00	3-Clean Sand
16	-17.20	-19.70	2.50	99.00	2-Clay and Silty Sand
17	-19.70	-24.70	5.00	99.00	4-Limestone, Very
Shelly Sand					
18	-24.70	-37.20	12.50	88.40	2-Clay and Silty Sand
19	-37.20	-37.20	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	32.80
18.00	12.00	30.80
18.00	14.00	28.80
18.00	16.00	26.80
18.00	18.00	24.80
18.00	20.00	22.80
18.00	22.00	20.80
18.00	24.00	18.80
18.00	26.00	16.80
18.00	28.00	14.80
18.00	30.00	12.80
18.00	32.00	10.80
18.00	34.00	8.80
18.00	36.00	6.80
18.00	38.00	4.80
18.00	40.00	2.80
18.00	42.00	0.80
18.00	44.00	-1.20
18.00	46.00	-3.20
18.00	48.00	-5.20
18.00	50.00	-7.20
18.00	52.00	-9.20
18.00	54.00	-11.20
18.00	56.00	-13.20
18.00	58.00	-15.20
18.00	60.00	-17.20
18.00	62.00	-19.20
18.00	64.00	-21.20
18.00	66.00	-23.20
18.00	68.00	-25.20

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18.00	70.00	-27.20
18.00	72.00	-29.20
18.00	74.00	-31.20
18.00	76.00	-33.20
18.00	78.00	-35.20
18.00	80.00	-37.20

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	12.89	25.96	38.85	19.42	90.77
12.00	18.0	18.81	24.68	43.49	21.75	92.85
14.00	18.0	28.66	19.18	47.84	23.92	86.20
16.00	18.0	36.65	16.02	52.67	26.34	84.72
18.00	18.0	43.29	12.13	55.41	27.71	79.67
20.00	18.0	48.22	8.96	57.18	28.59	75.11
22.00	18.0	49.47	0.07	49.53	24.77	49.67
24.00	18.0	49.47	7.07	56.54	28.27	70.69
26.00	18.0	49.47	5.16	54.63	27.31	64.95
28.00	18.0	51.52	3.06	54.57	27.29	60.69
30.00	18.0	51.96	3.00	54.96	27.48	60.96
32.00	18.0	51.96	3.58	55.55	27.77	62.71
34.00	18.0	52.04	7.29	59.33	29.67	73.90
36.00	18.0	56.88	10.26	67.14	33.57	87.66
38.00	18.0	60.55	12.96	73.51	36.76	99.43
40.00	18.0	67.64	15.56	83.21	41.60	114.33
42.00	18.0	78.10	15.83	93.92	46.96	125.58
44.00	18.0	87.76	15.65	103.41	51.70	134.71
46.00	18.0	94.25	18.44	112.69	56.35	149.57
48.00	18.0	99.88	27.61	127.50	63.75	182.73
50.00	18.0	106.51	38.56	145.07	72.53	222.19
52.00	18.0	116.89	44.46	161.35	80.67	250.27
54.00	18.0	131.71	45.66	177.37	88.68	268.68
56.00	18.0	143.28	49.96	193.24	96.62	293.17
58.00	18.0	155.93	68.60	224.53	112.26	361.73
60.00	18.0	166.58	96.61	263.18	131.59	456.39
62.00	18.0	177.97	99.75	277.72	138.86	477.21
64.00	18.0	186.30	99.88	286.18	143.09	485.95
66.00	18.0	194.35	91.36	285.70	142.85	468.42
68.00	18.0	208.14	72.00	280.14	140.07	424.14

WL2-B13_18-PCP.txt							
70.00	18.0	223.85	72.00	295.85	147.92	439.85	
72.00	18.0	239.56	72.00	311.56	155.78	455.56	
74.00	18.0	255.27	67.80	323.07	161.53	458.67	
76.00	18.0	***** Not enough soil data *****					
78.00	18.0	0.00	0.00	0.00	0.00	0.00	
80.00	18.0	0.00	0.00	0.00	0.00	0.00	

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSEON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSEON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B14\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 6-24-13, Boring Number: WL2-B14  
 Station number: 804+66 Offset: 23 LT

Ground Elevation: 40.300(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	6.00	3- Clean sand
2	2.00	6.00	3- Clean sand
3	4.00	6.00	3- Clean sand
4	6.00	7.00	2- Clay and silty sand
5	8.00	9.00	2- Clay and silty sand
6	10.00	6.00	2- Clay and silty sand
7	12.50	6.00	2- Clay and silty sand
8	15.00	7.00	2- Clay and silty sand
9	17.50	7.00	2- Clay and silty sand
10	20.00	5.00	2- Clay and silty sand
11	21.25	4.00	3- Clean sand
12	22.50	4.00	2- Clay and silty sand
13	25.00	3.00	2- Clay and silty sand
14	27.50	1.00	2- Clay and silty sand
15	30.00	3.00	2- Clay and silty sand
16	32.50	4.00	2- Clay and silty sand
17	35.00	37.00	3- Clean sand

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18	37.50	30.00	3-	Clean sand
19	40.00	23.00	3-	Clean sand
20	42.50	24.00	3-	Clean sand
21	45.00	27.00	3-	Clean sand
22	47.50	25.00	3-	Clean sand
23	50.00	23.00	3-	Clean sand
24	52.50	6.00	2-	Clay and silty sand
25	55.00	7.00	2-	Clay and silty sand
26	56.25	0.00	3-	Clean sand
27	57.50	0.00	2-	Clay and silty sand
28	60.00	2.00	2-	Clay and silty sand
29	62.50	0.00	2-	Clay and silty sand
30	65.00	2.00	2-	Clay and silty sand
31	66.25	2.00	3-	Clean sand
32	67.50	99.00	2-	Clay and silty sand
33	70.00	99.00	2-	Clay and silty sand
34	72.50	69.00	2-	Clay and silty sand
35	75.00	99.00	2-	Clay and silty sand
36	77.50	65.00	2-	Clay and silty sand
37	80.00	99.00	2-	Clay and silty sand
38	82.50	99.00	2-	Clay and silty sand
39	85.00	99.00	2-	Clay and silty sand
40	87.50	99.00	4-	Lime Stone/Very shelly sand
41	90.00	99.00	4-	Lime Stone/Very shelly sand
42	91.00	0.00	5-	Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	40.30	34.30	6.00	6.00	3-Clean Sand
2	34.30	19.05	15.25	6.77	2-Clay and Silty Sand
3	19.05	17.80	1.25	4.00	3-Clean Sand
4	17.80	5.30	12.50	3.00	2-Clay and Silty Sand
5	5.30	-12.20	17.50	27.00	3-Clean Sand
6	-12.20	-15.95	3.75	6.33	2-Clay and Silty Sand
7	-15.95	-17.20	1.25	0.00	3-Clean Sand
8	-17.20	-25.95	8.75	0.86	2-Clay and Silty Sand
9	-25.95	-27.20	1.25	2.00	3-Clean Sand
10	-27.20	-47.20	20.00	91.00	2-Clay and Silty Sand
11	-47.20	-50.70	3.50	99.00	4-Limestone, Very

Shelly Sand

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	30.30
18.00	12.00	28.30
18.00	14.00	26.30
18.00	16.00	24.30
18.00	18.00	22.30
18.00	20.00	20.30
18.00	22.00	18.30
18.00	24.00	16.30
18.00	26.00	14.30
18.00	28.00	12.30
18.00	30.00	10.30
18.00	32.00	8.30
18.00	34.00	6.30
18.00	36.00	4.30
18.00	38.00	2.30
18.00	40.00	0.30
18.00	42.00	-1.70
18.00	44.00	-3.70
18.00	46.00	-5.70
18.00	48.00	-7.70
18.00	50.00	-9.70
18.00	52.00	-11.70
18.00	54.00	-13.70
18.00	56.00	-15.70
18.00	58.00	-17.70
18.00	60.00	-19.70
18.00	62.00	-21.70
18.00	64.00	-23.70
18.00	66.00	-25.70
18.00	68.00	-27.70
18.00	70.00	-29.70
18.00	72.00	-31.70
18.00	74.00	-33.70
18.00	76.00	-35.70
18.00	78.00	-37.70
18.00	80.00	-39.70



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18.00	82.00	-41.70
18.00	84.00	-43.70
18.00	86.00	-45.70
18.00	88.00	-47.70
18.00	90.00	-49.70

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
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10.00	18.0	16.62	11.97	28.59	14.29	52.52
12.00	18.0	20.62	10.29	30.91	15.45	51.49
14.00	18.0	24.75	10.16	34.91	17.46	55.24
16.00	18.0	29.29	9.21	38.50	19.25	56.92
18.00	18.0	33.87	7.24	41.11	20.55	55.59
20.00	18.0	37.73	5.33	43.06	21.53	53.71
22.00	18.0	38.78	0.00	38.78	19.39	38.78
24.00	18.0	38.78	3.40	42.19	21.09	48.99
26.00	18.0	38.78	2.63	41.41	20.71	46.67
28.00	18.0	38.78	2.95	41.74	20.87	47.65
30.00	18.0	38.78	16.62	55.40	27.70	88.64
32.00	18.0	38.78	34.89	73.67	36.84	143.45
34.00	18.0	41.03	47.86	88.88	44.44	184.59
36.00	18.0	50.26	49.93	100.20	50.10	200.07
38.00	18.0	58.17	50.64	108.81	54.40	210.08
40.00	18.0	63.21	52.96	116.17	58.08	222.09
42.00	18.0	67.11	57.02	124.13	62.07	238.18
44.00	18.0	71.56	62.05	133.60	66.80	257.70
46.00	18.0	77.76	65.25	143.01	71.51	273.51
48.00	18.0	88.47	58.87	147.35	73.67	265.09
50.00	18.0	101.51	48.83	150.34	75.17	247.99
52.00	18.0	107.01	38.04	145.05	72.53	221.14
54.00	18.0	111.02	5.95	116.97	58.49	128.88
56.00	18.0	114.83	4.37	119.20	59.60	127.95
58.00	18.0	114.89	17.51	132.40	66.20	167.42
60.00	18.0	114.89	11.21	126.10	63.05	148.52
62.00	18.0	114.89	8.05	122.94	61.47	139.04
64.00	18.0	114.89	17.87	132.76	66.38	168.51
66.00	18.0	114.89	30.69	145.58	72.79	206.97
68.00	18.0	123.59	38.09	161.68	80.84	237.86
70.00	18.0	136.90	41.06	177.95	88.98	260.07

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72.00	18.0	149.38	48.02	197.40	98.70	293.45
74.00	18.0	163.30	57.38	220.68	110.34	335.43
76.00	18.0	179.01	63.37	242.39	121.19	369.14
78.00	18.0	194.72	69.38	264.10	132.05	402.85
80.00	18.0	210.43	72.11	282.54	141.27	426.75
82.00	18.0	226.14	80.68	306.82	153.41	468.18
84.00	18.0	241.85	97.71	339.56	169.78	534.99
86.00	18.0	***** Not enough soil data *****				
88.00	18.0	0.00	0.00	0.00	0.00	0.00
90.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B15\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 8-19-13, Boring Number: WL2-B15  
 Station number: 805+66 Offset: 42 LT

Ground Elevation: 47.400(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	6.00	3- Clean sand
2	2.00	6.00	3- Clean sand
3	4.00	13.00	3- Clean sand
4	6.00	14.00	3- Clean sand
5	8.00	10.00	3- Clean sand
6	10.00	9.00	2- Clay and silty sand
7	12.50	11.00	2- Clay and silty sand
8	15.00	12.00	2- Clay and silty sand
9	17.50	10.00	2- Clay and silty sand
10	20.00	5.00	2- Clay and silty sand
11	21.25	2.00	3- Clean sand
12	22.50	2.00	2- Clay and silty sand
13	25.00	2.00	2- Clay and silty sand
14	27.50	2.00	2- Clay and silty sand
15	30.00	3.00	2- Clay and silty sand
16	31.25	3.00	3- Clean sand
17	32.50	10.00	2- Clay and silty sand

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18	35.00	15.00	2- Clay and silty sand
19	37.50	19.00	2- Clay and silty sand
20	40.00	10.00	2- Clay and silty sand
21	42.50	7.00	2- Clay and silty sand
22	45.00	11.00	2- Clay and silty sand
23	47.50	15.00	2- Clay and silty sand
24	48.75	15.00	3- Clean sand
25	50.00	26.00	2- Clay and silty sand
26	52.50	34.00	2- Clay and silty sand
27	55.00	25.00	2- Clay and silty sand
28	57.50	19.00	2- Clay and silty sand
29	58.75	5.00	3- Clean sand
30	60.00	5.00	2- Clay and silty sand
31	62.50	8.00	2- Clay and silty sand
32	65.00	7.00	2- Clay and silty sand
33	67.50	6.00	2- Clay and silty sand
34	68.75	6.00	3- Clean sand
35	70.00	99.00	2- Clay and silty sand
36	72.50	99.00	2- Clay and silty sand
37	75.00	99.00	2- Clay and silty sand
38	76.25	38.00	3- Clean sand
39	77.50	38.00	2- Clay and silty sand
40	78.75	38.00	3- Clean sand
41	80.00	99.00	2- Clay and silty sand
42	82.50	99.00	2- Clay and silty sand
43	85.00	52.00	2- Clay and silty sand
44	87.50	99.00	2- Clay and silty sand
45	90.00	99.00	4- Lime Stone/Very shelly sand
46	91.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	47.40	37.40	10.00	9.80	3-Clean Sand
2	37.40	26.15	11.25	9.89	2-Clay and Silty Sand
3	26.15	24.90	1.25	2.00	3-Clean Sand
4	24.90	16.15	8.75	2.14	2-Clay and Silty Sand
5	16.15	14.90	1.25	3.00	3-Clean Sand
6	14.90	-1.35	16.25	12.23	2-Clay and Silty Sand
7	-1.35	-2.60	1.25	15.00	3-Clean Sand
8	-2.60	-11.35	8.75	27.00	2-Clay and Silty Sand

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9	-11.35	-12.60	1.25	5.00	3-Clean Sand
10	-12.60	-21.35	8.75	6.57	2-Clay and Silty Sand
11	-21.35	-22.60	1.25	6.00	3-Clean Sand
12	-22.60	-28.85	6.25	99.00	2-Clay and Silty Sand
13	-28.85	-30.10	1.25	38.00	3-Clean Sand
14	-30.10	-31.35	1.25	38.00	2-Clay and Silty Sand
15	-31.35	-32.60	1.25	38.00	3-Clean Sand
16	-32.60	-42.60	10.00	87.25	2-Clay and Silty Sand
17	-42.60	-43.60	1.00	99.00	4-Limestone, Very
Shelly Sand					
18	-43.60	-43.60	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	37.40
18.00	12.00	35.40
18.00	14.00	33.40
18.00	16.00	31.40
18.00	18.00	29.40
18.00	20.00	27.40
18.00	22.00	25.40
18.00	24.00	23.40
18.00	26.00	21.40
18.00	28.00	19.40
18.00	30.00	17.40
18.00	32.00	15.40
18.00	34.00	13.40
18.00	36.00	11.40
18.00	38.00	9.40
18.00	40.00	7.40
18.00	42.00	5.40
18.00	44.00	3.40
18.00	46.00	1.40
18.00	48.00	-0.60
18.00	50.00	-2.60
18.00	52.00	-4.60
18.00	54.00	-6.60
18.00	56.00	-8.60
18.00	58.00	-10.60
18.00	60.00	-12.60

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18.00	62.00	-14.60
18.00	64.00	-16.60
18.00	66.00	-18.60
18.00	68.00	-20.60
18.00	70.00	-22.60
18.00	72.00	-24.60
18.00	74.00	-26.60
18.00	76.00	-28.60
18.00	78.00	-30.60
18.00	80.00	-32.60
18.00	82.00	-34.60
18.00	84.00	-36.60
18.00	86.00	-38.60
18.00	88.00	-40.60
18.00	90.00	-42.60

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
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10.00	18.0	15.89	22.40	38.29	19.15	83.09
12.00	18.0	22.11	15.67	37.78	18.89	69.12
14.00	18.0	29.09	15.42	44.50	22.25	75.34
16.00	18.0	36.34	13.46	49.79	24.90	76.71
18.00	18.0	42.84	10.42	53.27	26.63	74.12
20.00	18.0	47.40	7.88	55.28	27.64	71.05
22.00	18.0	48.45	0.00	48.45	24.23	48.45
24.00	18.0	48.45	5.18	53.63	26.82	63.99
26.00	18.0	48.45	3.79	52.24	26.12	59.83
28.00	18.0	48.45	4.37	52.82	26.41	61.56
30.00	18.0	48.45	6.91	55.37	27.68	69.20
32.00	18.0	49.07	9.34	58.41	29.21	77.09
34.00	18.0	55.13	12.02	67.15	33.57	91.19
36.00	18.0	62.92	12.91	75.83	37.91	101.64
38.00	18.0	73.12	13.06	86.18	43.09	112.30
40.00	18.0	81.25	13.80	95.05	47.53	122.66
42.00	18.0	87.01	16.09	103.09	51.55	135.26
44.00	18.0	92.26	21.25	113.51	56.76	156.02
46.00	18.0	99.13	26.03	125.16	62.58	177.23
48.00	18.0	107.33	30.96	138.28	69.14	200.20
50.00	18.0	116.23	43.91	160.14	80.07	247.96

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52.00	18.0	130.10	41.64	171.74	85.87	255.02	
54.00	18.0	144.54	37.48	182.02	91.01	256.99	
56.00	18.0	157.37	30.73	188.10	94.05	249.57	
58.00	18.0	168.05	25.56	193.62	96.81	244.75	
60.00	18.0	171.12	10.41	181.53	90.77	202.36	
62.00	18.0	175.22	9.90	185.13	92.56	204.93	
64.00	18.0	179.69	11.11	190.79	95.40	213.01	
66.00	18.0	181.22	22.04	203.26	101.63	247.33	
68.00	18.0	185.35	33.82	219.17	109.59	286.81	
70.00	18.0	195.20	43.48	238.68	119.34	325.65	
72.00	18.0	208.67	46.46	255.14	127.57	348.06	
74.00	18.0	220.72	54.83	275.56	137.78	385.22	
76.00	18.0	233.57	65.55	299.12	149.56	430.23	
78.00	18.0	254.51	68.16	322.67	161.33	458.98	
80.00	18.0	267.41	72.00	339.41	169.71	483.41	
82.00	18.0	283.12	72.00	355.12	177.56	499.12	
84.00	18.0	297.41	75.50	372.91	186.45	523.91	
86.00	18.0	***** Not enough soil data *****					
88.00	18.0	0.00	0.00	0.00	0.00	0.00	
90.00	18.0	0.00	0.00	0.00	0.00	0.00	

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B16\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No, 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 8-12-13, Boring Number: WL2-B16  
 Station number: 805+94 Offset: 63 RT

Ground Elevation: 42.200(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	7.00	3- Clean sand
2	2.00	7.00	3- Clean sand
3	4.00	8.00	3- Clean sand
4	6.00	6.00	3- Clean sand
5	8.00	7.00	3- Clean sand
6	9.00	7.00	2- Clay and silty sand
7	10.00	16.00	3- Clean sand
8	12.50	15.00	2- Clay and silty sand
9	15.00	12.00	2- Clay and silty sand
10	17.50	10.00	2- Clay and silty sand
11	20.00	5.00	2- Clay and silty sand
12	21.25	2.00	3- Clean sand
13	22.50	2.00	2- Clay and silty sand
14	25.00	2.00	2- Clay and silty sand
15	26.25	2.00	3- Clean sand
16	27.50	6.00	2- Clay and silty sand
17	28.75	3.00	3- Clean sand



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18	30.00	3.00	2- Clay and silty sand
19	32.50	3.00	2- Clay and silty sand
20	33.75	3.00	3- Clean sand
21	35.00	19.00	2- Clay and silty sand
22	37.50	20.00	2- Clay and silty sand
23	40.00	22.00	3- Clean sand
24	42.50	20.00	3- Clean sand
25	45.00	23.00	3- Clean sand
26	47.50	17.00	3- Clean sand
27	50.00	22.00	3- Clean sand
28	52.50	13.00	3- Clean sand
29	55.00	3.00	2- Clay and silty sand
30	56.25	3.00	3- Clean sand
31	57.50	11.00	2- Clay and silty sand
32	60.00	5.00	2- Clay and silty sand
33	61.25	2.00	3- Clean sand
34	62.50	2.00	2- Clay and silty sand
35	63.75	2.00	3- Clean sand
36	65.00	8.00	2- Clay and silty sand
37	66.25	8.00	3- Clean sand
38	67.50	31.00	2- Clay and silty sand
39	68.75	31.00	3- Clean sand
40	70.00	99.00	2- Clay and silty sand
41	72.50	99.00	2- Clay and silty sand
42	75.00	99.00	2- Clay and silty sand
43	77.50	45.00	2- Clay and silty sand
44	78.75	27.00	3- Clean sand
45	80.00	27.00	2- Clay and silty sand
46	82.50	17.00	2- Clay and silty sand
47	83.75	17.00	3- Clean sand
48	85.00	99.00	2- Clay and silty sand
49	87.50	99.00	2- Clay and silty sand
50	90.00	99.00	2- Clay and silty sand
51	92.50	99.00	2- Clay and silty sand
52	93.75	8.00	3- Clean sand
53	95.00	8.00	2- Clay and silty sand
54	96.25	0.00	3- Clean sand
55	97.50	0.00	2- Clay and silty sand
56	98.75	0.00	3- Clean sand
57	100.00	99.00	2- Clay and silty sand
58	102.50	99.00	2- Clay and silty sand
59	103.75	1.00	3- Clean sand
60	105.00	1.00	2- Clay and silty sand
61	107.50	1.00	2- Clay and silty sand
62	108.75	1.00	3- Clean sand
63	110.00	6.00	2- Clay and silty sand
64	111.25	0.00	3- Clean sand
65	112.50	0.00	2- Clay and silty sand

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66	115.00	0.00	2- Clay and silty sand
67	117.50	0.00	2- Clay and silty sand
68	118.75	0.00	3- Clean sand
69	120.00	6.00	2- Clay and silty sand
70	122.50	6.00	2- Clay and silty sand
71	123.75	6.00	3- Clean sand
72	125.00	99.00	2- Clay and silty sand
73	127.50	99.00	2- Clay and silty sand
74	130.00	99.00	2- Clay and silty sand
75	132.50	99.00	4- Lime Stone/Very shelly sand
76	135.00	24.00	2- Clay and silty sand
77	136.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	42.20	33.20	9.00	7.00	3-Clean Sand
2	33.20	32.20	1.00	7.00	2-Clay and Silty Sand
3	32.20	29.70	2.50	16.00	3-Clean Sand
4	29.70	20.95	8.75	11.29	2-Clay and Silty Sand
5	20.95	19.70	1.25	2.00	3-Clean Sand
6	19.70	15.95	3.75	2.00	2-Clay and Silty Sand
7	15.95	14.70	1.25	2.00	3-Clean Sand
8	14.70	13.45	1.25	6.00	2-Clay and Silty Sand
9	13.45	12.20	1.25	3.00	3-Clean Sand
10	12.20	8.45	3.75	3.00	2-Clay and Silty Sand
11	8.45	7.20	1.25	3.00	3-Clean Sand
12	7.20	2.20	5.00	19.50	2-Clay and Silty Sand
13	2.20	-12.80	15.00	19.50	3-Clean Sand
14	-12.80	-14.05	1.25	3.00	2-Clay and Silty Sand
15	-14.05	-15.30	1.25	3.00	3-Clean Sand
16	-15.30	-19.05	3.75	9.00	2-Clay and Silty Sand
17	-19.05	-20.30	1.25	2.00	3-Clean Sand
18	-20.30	-21.55	1.25	2.00	2-Clay and Silty Sand
19	-21.55	-22.80	1.25	2.00	3-Clean Sand
20	-22.80	-24.05	1.25	8.00	2-Clay and Silty Sand
21	-24.05	-25.30	1.25	8.00	3-Clean Sand
22	-25.30	-26.55	1.25	31.00	2-Clay and Silty Sand
23	-26.55	-27.80	1.25	31.00	3-Clean Sand
24	-27.80	-36.55	8.75	91.29	2-Clay and Silty Sand
25	-36.55	-37.80	1.25	27.00	3-Clean Sand

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26	-37.80	-41.55	3.75	23.67	2-Clay and Silty Sand
27	-41.55	-42.80	1.25	17.00	3-Clean Sand
28	-42.80	-51.55	8.75	99.00	2-Clay and Silty Sand
29	-51.55	-52.80	1.25	8.00	3-Clean Sand
30	-52.80	-54.05	1.25	8.00	2-Clay and Silty Sand
31	-54.05	-55.30	1.25	0.00	3-Clean Sand
32	-55.30	-56.55	1.25	0.00	2-Clay and Silty Sand
33	-56.55	-57.80	1.25	0.00	3-Clean Sand
34	-57.80	-61.55	3.75	99.00	2-Clay and Silty Sand
35	-61.55	-62.80	1.25	1.00	3-Clean Sand
36	-62.80	-66.55	3.75	1.00	2-Clay and Silty Sand
37	-66.55	-67.80	1.25	1.00	3-Clean Sand
38	-67.80	-69.05	1.25	6.00	2-Clay and Silty Sand
39	-69.05	-70.30	1.25	0.00	3-Clean Sand
40	-70.30	-76.55	6.25	0.00	2-Clay and Silty Sand
41	-76.55	-77.80	1.25	0.00	3-Clean Sand
42	-77.80	-81.55	3.75	6.00	2-Clay and Silty Sand
43	-81.55	-82.80	1.25	6.00	3-Clean Sand
44	-82.80	-90.30	7.50	99.00	2-Clay and Silty Sand
45	-90.30	-92.80	2.50	99.00	4-Limestone, Very
Shelly Sand					
46	-92.80	-93.80	1.00	24.00	2-Clay and Silty Sand
47	-93.80	-93.80	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	32.20
18.00	12.00	30.20
18.00	14.00	28.20
18.00	16.00	26.20
18.00	18.00	24.20
18.00	20.00	22.20
18.00	22.00	20.20
18.00	24.00	18.20
18.00	26.00	16.20
18.00	28.00	14.20
18.00	30.00	12.20
18.00	32.00	10.20
18.00	34.00	8.20
18.00	36.00	6.20

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18.00	38.00	4.20
18.00	40.00	2.20
18.00	42.00	0.20
18.00	44.00	-1.80
18.00	46.00	-3.80
18.00	48.00	-5.80
18.00	50.00	-7.80
18.00	52.00	-9.80
18.00	54.00	-11.80
18.00	56.00	-13.80
18.00	58.00	-15.80
18.00	60.00	-17.80
18.00	62.00	-19.80
18.00	64.00	-21.80
18.00	66.00	-23.80
18.00	68.00	-25.80
18.00	70.00	-27.80
18.00	72.00	-29.80
18.00	74.00	-31.80
18.00	76.00	-33.80
18.00	78.00	-35.80
18.00	80.00	-37.80
18.00	82.00	-39.80
18.00	84.00	-41.80
18.00	86.00	-43.80
18.00	88.00	-45.80
18.00	90.00	-47.80
18.00	92.00	-49.80
18.00	94.00	-51.80
18.00	96.00	-53.80
18.00	98.00	-55.80
18.00	100.00	-57.80
18.00	102.00	-59.80
18.00	104.00	-61.80
18.00	106.00	-63.80
18.00	108.00	-65.80
18.00	110.00	-67.80
18.00	112.00	-69.80
18.00	114.00	-71.80
18.00	116.00	-73.80
18.00	118.00	-75.80
18.00	120.00	-77.80
18.00	122.00	-79.80
18.00	124.00	-81.80
18.00	126.00	-83.80
18.00	128.00	-85.80
18.00	130.00	-87.80
18.00	132.00	-89.80

18.00      134.00      -91.80

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	11.84	24.09	35.94	17.97	84.13
12.00	18.0	18.12	21.43	39.55	19.78	82.42
14.00	18.0	26.53	18.09	44.62	22.31	80.80
16.00	18.0	34.03	14.99	49.02	24.51	79.01
18.00	18.0	40.53	11.35	51.89	25.94	74.60
20.00	18.0	45.09	8.38	53.47	26.74	70.23
22.00	18.0	46.14	0.07	46.21	23.11	46.35
24.00	18.0	46.14	6.73	52.88	26.44	66.35
26.00	18.0	46.14	4.91	51.05	25.52	60.86
28.00	18.0	48.19	2.91	51.11	25.55	56.94
30.00	18.0	48.64	3.88	52.53	26.26	60.30
32.00	18.0	48.64	5.44	54.08	27.04	64.95
34.00	18.0	48.77	14.86	63.63	31.81	93.35
36.00	18.0	56.47	21.75	78.23	39.11	121.74
38.00	18.0	63.57	27.45	91.02	45.51	145.91
40.00	18.0	76.36	40.53	116.88	58.44	197.93
42.00	18.0	81.80	41.19	122.99	61.49	205.37
44.00	18.0	86.47	43.02	129.49	64.75	215.53
46.00	18.0	91.07	46.24	137.31	68.65	229.78
48.00	18.0	95.74	48.12	143.86	71.93	240.09
50.00	18.0	102.93	45.09	148.02	74.01	238.20
52.00	18.0	110.54	37.18	147.72	73.86	222.08
54.00	18.0	113.45	31.20	144.65	72.32	207.05
56.00	18.0	113.82	4.25	118.07	59.03	126.57
58.00	18.0	117.60	20.27	137.87	68.94	178.41
60.00	18.0	122.38	15.53	137.91	68.95	168.96
62.00	18.0	123.43	5.95	129.38	64.69	141.29
64.00	18.0	123.49	22.64	146.13	73.06	191.40
66.00	18.0	126.80	30.31	157.11	78.55	217.73
68.00	18.0	135.77	41.95	177.73	88.86	261.64
70.00	18.0	147.48	71.99	219.47	109.73	363.45
72.00	18.0	163.19	71.51	234.70	117.35	377.73
74.00	18.0	178.90	71.61	250.51	125.26	393.74
76.00	18.0	194.62	65.98	260.60	130.30	392.56
78.00	18.0	210.02	58.30	268.32	134.16	384.93

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80.00	18.0	220.38	42.65	263.03	131.51	348.32
82.00	18.0	231.71	43.64	275.35	137.67	362.63
84.00	18.0	240.21	64.08	304.28	152.14	432.44
86.00	18.0	253.74	64.79	318.53	159.26	448.11
88.00	18.0	269.45	63.80	333.25	166.62	460.85
90.00	18.0	285.16	54.33	339.48	169.74	448.14
92.00	18.0	300.86	41.54	342.41	171.20	425.50
94.00	18.0	310.54	6.24	316.79	158.39	329.27
96.00	18.0	314.03	13.92	327.96	163.98	355.81
98.00	18.0	314.36	47.75	362.12	181.06	457.62
100.00	18.0	319.27	40.54	359.81	179.91	440.89
102.00	18.0	334.98	26.82	361.81	180.90	415.45
104.00	18.0	343.82	0.04	343.86	171.93	343.95
106.00	18.0	343.82	13.32	357.14	178.57	383.77
108.00	18.0	343.82	12.33	356.14	178.07	380.79
110.00	18.0	345.07	12.01	357.08	178.54	381.11
112.00	18.0	346.32	0.00	346.32	173.16	346.32
114.00	18.0	346.32	3.93	350.24	175.12	358.09
116.00	18.0	346.32	2.06	348.37	174.19	352.49
118.00	18.0	346.32	3.95	350.27	175.13	358.17
120.00	18.0	347.56	11.48	359.04	179.52	382.01
122.00	18.0	349.82	15.66	365.48	182.74	396.79
124.00	18.0	354.71	34.66	389.37	194.68	458.68
126.00	18.0	366.76	41.24	407.99	204.00	490.46
128.00	18.0	376.63	52.65	429.28	214.64	534.57
130.00	18.0	389.08	66.17	455.25	227.63	587.58
132.00	18.0	*****	Not enough soil data	*****		
134.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B17\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 8-22-13, Boring Number: WL2-B17  
 Station number: 807+42 Offset: 116 LT

Ground Elevation: 37.100(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	8.00	2- Clay and silty sand
2	2.00	8.00	2- Clay and silty sand
3	4.00	19.00	3- Clean sand
4	6.00	5.00	2- Clay and silty sand
5	8.00	8.00	2- Clay and silty sand
6	10.00	16.00	3- Clean sand
7	12.50	11.00	2- Clay and silty sand
8	15.00	14.00	2- Clay and silty sand
9	17.50	12.00	2- Clay and silty sand
10	20.00	9.00	2- Clay and silty sand
11	22.50	6.00	2- Clay and silty sand
12	25.00	5.00	2- Clay and silty sand
13	26.25	4.00	3- Clean sand
14	27.50	4.00	2- Clay and silty sand
15	30.00	2.00	2- Clay and silty sand
16	32.50	2.00	2- Clay and silty sand
17	33.75	2.00	3- Clean sand

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18	35.00	5.00	2- Clay and silty sand
19	37.50	8.00	2- Clay and silty sand
20	38.75	8.00	3- Clean sand
21	40.00	27.00	2- Clay and silty sand
22	42.50	34.00	2- Clay and silty sand
23	45.00	31.00	2- Clay and silty sand
24	47.50	34.00	2- Clay and silty sand
25	50.00	32.00	2- Clay and silty sand
26	52.50	35.00	2- Clay and silty sand
27	55.00	15.00	2- Clay and silty sand
28	56.25	5.00	3- Clean sand
29	57.50	5.00	2- Clay and silty sand
30	60.00	5.00	2- Clay and silty sand
31	62.50	5.00	2- Clay and silty sand
32	63.75	3.00	3- Clean sand
33	65.00	3.00	2- Clay and silty sand
34	67.50	0.00	2- Clay and silty sand
35	70.00	2.00	2- Clay and silty sand
36	71.25	2.00	3- Clean sand
37	72.50	21.00	2- Clay and silty sand
38	73.75	21.00	3- Clean sand
39	75.00	47.00	2- Clay and silty sand
40	77.50	99.00	2- Clay and silty sand
41	80.00	99.00	4- Lime Stone/Very shelly sand
42	82.50	99.00	4- Lime Stone/Very shelly sand
43	85.00	20.00	2- Clay and silty sand
44	87.50	19.00	2- Clay and silty sand
45	88.75	19.00	3- Clean sand
46	90.00	99.00	2- Clay and silty sand
47	92.50	99.00	2- Clay and silty sand
48	95.00	5.00	4- Lime Stone/Very shelly sand
49	96.25	5.00	3- Clean sand
50	97.50	99.00	4- Lime Stone/Very shelly sand
51	100.00	99.00	2- Clay and silty sand
52	101.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	37.10	33.10	4.00	8.00	2-Clay and Silty Sand
2	33.10	31.10	2.00	19.00	3-Clean Sand



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3	31.10	27.10	4.00	6.50	2-Clay and Silty Sand
4	27.10	24.60	2.50	16.00	3-Clean Sand
5	24.60	10.85	13.75	9.91	2-Clay and Silty Sand
6	10.85	9.60	1.25	4.00	3-Clean Sand
7	9.60	3.35	6.25	2.80	2-Clay and Silty Sand
8	3.35	2.10	1.25	2.00	3-Clean Sand
9	2.10	-1.65	3.75	6.00	2-Clay and Silty Sand
10	-1.65	-2.90	1.25	8.00	3-Clean Sand
11	-2.90	-19.15	16.25	30.85	2-Clay and Silty Sand
12	-19.15	-20.40	1.25	5.00	3-Clean Sand
13	-20.40	-26.65	6.25	5.00	2-Clay and Silty Sand
14	-26.65	-27.90	1.25	3.00	3-Clean Sand
15	-27.90	-34.15	6.25	1.60	2-Clay and Silty Sand
16	-34.15	-35.40	1.25	2.00	3-Clean Sand
17	-35.40	-36.65	1.25	21.00	2-Clay and Silty Sand
18	-36.65	-37.90	1.25	21.00	3-Clean Sand
19	-37.90	-42.90	5.00	73.00	2-Clay and Silty Sand
20	-42.90	-47.90	5.00	99.00	4-Limestone, Very
Shelly Sand					
21	-47.90	-51.65	3.75	19.67	2-Clay and Silty Sand
22	-51.65	-52.90	1.25	19.00	3-Clean Sand
23	-52.90	-57.90	5.00	99.00	2-Clay and Silty Sand
24	-57.90	-59.15	1.25	5.00	4-Limestone, Very
Shelly Sand					
25	-59.15	-60.40	1.25	5.00	3-Clean Sand
26	-60.40	-62.90	2.50	99.00	4-Limestone, Very
Shelly Sand					
27	-62.90	-63.90	1.00	99.00	2-Clay and Silty Sand
28	-63.90	-63.90	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	27.10
18.00	12.00	25.10
18.00	14.00	23.10
18.00	16.00	21.10
18.00	18.00	19.10
18.00	20.00	17.10
18.00	22.00	15.10
18.00	24.00	13.10

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18.00	26.00	11.10
18.00	28.00	9.10
18.00	30.00	7.10
18.00	32.00	5.10
18.00	34.00	3.10
18.00	36.00	1.10
18.00	38.00	-0.90
18.00	40.00	-2.90
18.00	42.00	-4.90
18.00	44.00	-6.90
18.00	46.00	-8.90
18.00	48.00	-10.90
18.00	50.00	-12.90
18.00	52.00	-14.90
18.00	54.00	-16.90
18.00	56.00	-18.90
18.00	58.00	-20.90
18.00	60.00	-22.90
18.00	62.00	-24.90
18.00	64.00	-26.90
18.00	66.00	-28.90
18.00	68.00	-30.90
18.00	70.00	-32.90
18.00	72.00	-34.90
18.00	74.00	-36.90
18.00	76.00	-38.90
18.00	78.00	-40.90
18.00	80.00	-42.90
18.00	82.00	-44.90
18.00	84.00	-46.90
18.00	86.00	-48.90
18.00	88.00	-50.90
18.00	90.00	-52.90
18.00	92.00	-54.90
18.00	94.00	-56.90
18.00	96.00	-58.90
18.00	98.00	-60.90
18.00	100.00	-62.90

Driven Pile Capacity:

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Test Pile Length	Pile Width	Ultimate Side Friction	Mobilized End Bearing	Estimated Davisson Capacity	Allowable Pile Capacity	Ultimate Pile Capacity
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WL2-B17_18-PCP.txt						
(ft)	(in)	(tons)	(tons)	(tons)	(tons)	(tons)
10.00	18.0	24.00	24.29	48.29	24.15	96.88
12.00	18.0	29.47	22.26	51.72	25.86	96.24
14.00	18.0	36.64	18.07	54.71	27.36	90.86
16.00	18.0	44.80	17.39	62.20	31.10	96.98
18.00	18.0	52.40	15.58	67.99	33.99	99.16
20.00	18.0	58.83	13.69	72.52	36.26	99.91
22.00	18.0	63.90	11.11	75.00	37.50	97.22
24.00	18.0	67.79	8.77	76.56	38.28	94.10
26.00	18.0	70.55	6.69	77.25	38.62	90.63
28.00	18.0	70.60	5.01	75.60	37.80	85.62
30.00	18.0	70.60	4.10	74.69	37.35	82.89
32.00	18.0	70.60	4.68	75.27	37.64	84.62
34.00	18.0	70.63	6.84	77.47	38.74	91.15
36.00	18.0	73.10	10.82	83.92	41.96	105.55
38.00	18.0	75.65	15.70	91.34	45.67	122.74
40.00	18.0	84.23	27.22	111.46	55.73	165.90
42.00	18.0	96.63	28.71	125.33	62.67	182.75
44.00	18.0	108.45	32.98	141.43	70.71	207.38
46.00	18.0	120.66	40.04	160.70	80.35	240.79
48.00	18.0	135.45	43.67	179.12	89.56	266.47
50.00	18.0	150.19	43.46	193.64	96.82	280.56
52.00	18.0	164.99	38.70	203.69	101.84	281.09
54.00	18.0	178.77	31.59	210.36	105.18	273.54
56.00	18.0	187.19	26.34	213.53	106.77	266.22
58.00	18.0	196.37	7.28	203.65	101.83	218.22
60.00	18.0	199.74	5.93	205.68	102.84	217.55
62.00	18.0	203.11	4.52	207.63	103.82	216.67
64.00	18.0	205.01	0.00	205.01	102.50	205.01
66.00	18.0	205.01	4.47	209.48	104.74	218.42
68.00	18.0	205.01	6.70	211.71	105.85	225.10
70.00	18.0	205.01	16.51	221.52	110.76	254.53
72.00	18.0	206.12	26.85	232.97	116.48	286.68
74.00	18.0	214.84	42.63	257.48	128.74	342.75
76.00	18.0	227.44	57.32	284.76	142.38	399.39
78.00	18.0	237.64	71.95	309.59	154.79	453.48
80.00	18.0	254.81	88.39	343.20	171.60	519.98
82.00	18.0	262.01	76.56	338.57	169.28	491.69
84.00	18.0	270.08	70.66	340.74	170.37	482.06
86.00	18.0	280.72	40.11	320.82	160.41	401.03
88.00	18.0	289.94	45.17	335.11	167.55	425.45
90.00	18.0	300.40	56.20	356.61	178.30	469.01
92.00	18.0	315.51	57.10	372.61	186.31	486.82
94.00	18.0	324.83	65.20	390.03	195.02	520.43
96.00	18.0	*****	Not enough soil data	*****		
98.00	18.0	0.00	0.00	0.00	0.00	0.00
100.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
  4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B18\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 8-21-13, Boring Number: WL2-B18  
 Station number: 806+83 Offset: 16 LT

Ground Elevation: 40.100(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	4.00	3- Clean sand
2	2.00	4.00	3- Clean sand
3	3.00	4.00	2- Clay and silty sand
4	4.00	6.00	3- Clean sand
5	6.00	7.00	3- Clean sand
6	8.00	7.00	3- Clean sand
7	10.00	13.00	2- Clay and silty sand
8	12.50	16.00	2- Clay and silty sand
9	15.00	13.00	2- Clay and silty sand
10	17.50	15.00	2- Clay and silty sand
11	20.00	7.00	2- Clay and silty sand
12	21.25	4.00	3- Clean sand
13	22.50	4.00	2- Clay and silty sand
14	25.00	3.00	2- Clay and silty sand
15	27.50	3.00	2- Clay and silty sand
16	30.00	3.00	2- Clay and silty sand
17	32.50	4.00	2- Clay and silty sand

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18	33.75	4.00	3- Clean sand
19	35.00	13.00	2- Clay and silty sand
20	37.50	11.00	2- Clay and silty sand
21	40.00	13.00	2- Clay and silty sand
22	42.50	21.00	2- Clay and silty sand
23	45.00	18.00	2- Clay and silty sand
24	47.50	19.00	2- Clay and silty sand
25	50.00	29.00	2- Clay and silty sand
26	52.50	32.00	2- Clay and silty sand
27	55.00	31.00	2- Clay and silty sand
28	57.50	29.00	2- Clay and silty sand
29	60.00	22.00	2- Clay and silty sand
30	62.50	10.00	2- Clay and silty sand
31	65.00	11.00	1- Plastic Clay
32	67.50	6.00	2- Clay and silty sand
33	70.00	7.00	2- Clay and silty sand
34	72.50	8.00	2- Clay and silty sand
35	75.00	8.00	2- Clay and silty sand
36	77.50	9.00	2- Clay and silty sand
37	80.00	7.00	2- Clay and silty sand
38	81.25	7.00	3- Clean sand
39	82.50	66.00	2- Clay and silty sand
40	85.00	70.00	2- Clay and silty sand
41	87.50	99.00	2- Clay and silty sand
42	90.00	99.00	2- Clay and silty sand
43	92.50	99.00	2- Clay and silty sand
44	95.00	54.00	2- Clay and silty sand
45	97.50	52.00	2- Clay and silty sand
46	100.00	99.00	2- Clay and silty sand
47	102.50	99.00	2- Clay and silty sand
48	103.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	40.10	37.10	3.00	4.00	3-Clean Sand
2	37.10	36.10	1.00	4.00	2-Clay and Silty Sand
3	36.10	30.10	6.00	6.67	3-Clean Sand
4	30.10	18.85	11.25	13.44	2-Clay and Silty Sand
5	18.85	17.60	1.25	4.00	3-Clean Sand
6	17.60	6.35	11.25	3.33	2-Clay and Silty Sand

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7	6.35	5.10	1.25	4.00	3-Clean Sand
8	5.10	-24.90	30.00	20.67	2-Clay and Silty Sand
9	-24.90	-27.40	2.50	11.00	1-Plastic Clay
10	-27.40	-41.15	13.75	7.55	2-Clay and Silty Sand
11	-41.15	-42.40	1.25	7.00	3-Clean Sand
12	-42.40	-62.90	20.50	80.22	2-Clay and Silty Sand
13	-62.90	-62.90	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	30.10
18.00	12.00	28.10
18.00	14.00	26.10
18.00	16.00	24.10
18.00	18.00	22.10
18.00	20.00	20.10
18.00	22.00	18.10
18.00	24.00	16.10
18.00	26.00	14.10
18.00	28.00	12.10
18.00	30.00	10.10
18.00	32.00	8.10
18.00	34.00	6.10
18.00	36.00	4.10
18.00	38.00	2.10
18.00	40.00	0.10
18.00	42.00	-1.90
18.00	44.00	-3.90
18.00	46.00	-5.90
18.00	48.00	-7.90
18.00	50.00	-9.90
18.00	52.00	-11.90
18.00	54.00	-13.90
18.00	56.00	-15.90
18.00	58.00	-17.90
18.00	60.00	-19.90
18.00	62.00	-21.90
18.00	64.00	-23.90
18.00	66.00	-25.90
18.00	68.00	-27.90

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18.00	70.00	-29.90
18.00	72.00	-31.90
18.00	74.00	-33.90
18.00	76.00	-35.90
18.00	78.00	-37.90
18.00	80.00	-39.90
18.00	82.00	-41.90
18.00	84.00	-43.90
18.00	86.00	-45.90
18.00	88.00	-47.90
18.00	90.00	-49.90
18.00	92.00	-51.90
18.00	94.00	-53.90
18.00	96.00	-55.90
18.00	98.00	-57.90
18.00	100.00	-59.90
18.00	102.00	-61.90
18.00	104.00	-63.90

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	9.19	17.21	26.40	13.20	60.83
12.00	18.0	16.35	18.56	34.90	17.45	72.02
14.00	18.0	24.65	19.65	44.30	22.15	83.60
16.00	18.0	34.15	18.23	52.38	26.19	88.84
18.00	18.0	42.72	14.17	56.89	28.45	85.23
20.00	18.0	49.09	10.66	59.75	29.87	81.08
22.00	18.0	51.20	0.00	51.20	25.60	51.20
24.00	18.0	51.20	6.88	58.08	29.04	71.85
26.00	18.0	51.20	4.99	56.19	28.10	66.17
28.00	18.0	51.20	3.32	54.52	27.26	61.15
30.00	18.0	51.20	3.14	54.35	27.17	60.64
32.00	18.0	51.20	5.28	56.49	28.24	67.05
34.00	18.0	51.30	7.88	59.18	29.59	74.94
36.00	18.0	57.15	9.68	66.83	33.41	86.18
38.00	18.0	61.87	11.93	73.80	36.90	97.66
40.00	18.0	67.15	16.41	83.55	41.78	116.37
42.00	18.0	75.48	20.46	95.93	47.97	136.84
44.00	18.0	86.04	23.50	109.53	54.77	156.53



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46.00	18.0	96.20	28.74	124.94	62.47	182.42
48.00	18.0	106.66	33.36	140.02	70.01	206.74
50.00	18.0	118.94	36.82	155.76	77.88	229.40
52.00	18.0	132.75	38.99	171.74	85.87	249.73
54.00	18.0	146.95	39.55	186.50	93.25	265.59
56.00	18.0	161.06	37.94	199.00	99.50	274.88
58.00	18.0	174.86	34.27	209.13	104.57	277.68
60.00	18.0	187.44	29.78	217.22	108.61	276.77
62.00	18.0	197.16	25.47	222.63	111.32	273.57
64.00	18.0	204.22	22.05	226.27	113.13	270.37
66.00	18.0	219.88	8.54	228.42	114.21	245.51
68.00	18.0	224.76	16.74	241.50	120.75	274.98
70.00	18.0	229.12	14.33	243.45	121.72	272.10
72.00	18.0	233.97	12.48	246.44	123.22	271.40
74.00	18.0	239.15	11.45	250.60	125.30	273.50
76.00	18.0	244.41	11.66	256.07	128.03	279.39
78.00	18.0	250.02	20.26	270.29	135.14	310.82
80.00	18.0	255.10	32.02	287.12	143.56	351.16
82.00	18.0	259.26	39.19	298.45	149.22	376.82
84.00	18.0	273.64	44.92	318.56	159.28	408.41
86.00	18.0	286.92	49.11	336.03	168.02	434.26
88.00	18.0	300.29	56.63	356.92	178.46	470.18
90.00	18.0	315.58	62.70	378.28	189.14	503.68
92.00	18.0	331.29	67.73	399.02	199.51	534.49
94.00	18.0	347.00	71.79	418.79	209.39	562.36
96.00	18.0	362.71	72.00	434.71	217.36	578.71
98.00	18.0	*****	Not enough soil data	*****		
100.00	18.0	0.00	0.00	0.00	0.00	0.00
102.00	18.0	0.00	0.00	0.00	0.00	0.00
104.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
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EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B19\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 8-23-13, Boring Number: WL2-B19  
 Station number: 808+07 Offset: 58 LT

Ground Elevation: 38.300(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	6.00	3- Clean sand
2	2.00	6.00	3- Clean sand
3	4.00	13.00	3- Clean sand
4	6.00	6.00	3- Clean sand
5	8.00	8.00	3- Clean sand
6	10.00	7.00	3- Clean sand
7	12.50	7.00	3- Clean sand
8	15.00	15.00	2- Clay and silty sand
9	17.50	27.00	2- Clay and silty sand
10	20.00	17.00	3- Clean sand
11	22.50	24.00	3- Clean sand
12	25.00	31.00	3- Clean sand
13	27.50	31.00	2- Clay and silty sand
14	28.75	10.00	3- Clean sand
15	30.00	10.00	2- Clay and silty sand
16	32.50	6.00	2- Clay and silty sand
17	35.00	7.00	2- Clay and silty sand

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18	36.25	4.00	3- Clean sand
19	37.50	4.00	2- Clay and silty sand
20	40.00	1.00	2- Clay and silty sand
21	42.50	1.00	2- Clay and silty sand
22	45.00	2.00	2- Clay and silty sand
23	47.50	2.00	2- Clay and silty sand
24	50.00	2.00	2- Clay and silty sand
25	52.50	4.00	2- Clay and silty sand
26	53.75	4.00	3- Clean sand
27	55.00	52.00	2- Clay and silty sand
28	57.50	57.00	2- Clay and silty sand
29	60.00	47.00	2- Clay and silty sand
30	62.50	48.00	2- Clay and silty sand
31	65.00	56.00	2- Clay and silty sand
32	67.50	57.00	2- Clay and silty sand
33	68.75	15.00	3- Clean sand
34	70.00	15.00	2- Clay and silty sand
35	71.25	2.00	3- Clean sand
36	72.50	2.00	2- Clay and silty sand
37	75.00	2.00	2- Clay and silty sand
38	77.50	4.00	2- Clay and silty sand
39	78.75	4.00	3- Clean sand
40	80.00	17.00	2- Clay and silty sand
41	81.25	17.00	3- Clean sand
42	82.50	99.00	2- Clay and silty sand
43	85.00	52.00	2- Clay and silty sand
44	87.50	54.00	2- Clay and silty sand
45	90.00	99.00	2- Clay and silty sand
46	92.50	99.00	2- Clay and silty sand
47	95.00	99.00	2- Clay and silty sand
48	97.50	58.00	2- Clay and silty sand
49	100.00	99.00	4- Lime Stone/Very shelly sand
50	102.50	99.00	4- Lime Stone/Very shelly sand
51	103.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	38.30	23.30	15.00	7.53	3-Clean Sand
2	23.30	18.30	5.00	21.00	2-Clay and Silty Sand
3	18.30	10.80	7.50	24.00	3-Clean Sand

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4	10.80	9.55	1.25	31.00	2-Clay and Silty Sand
5	9.55	8.30	1.25	10.00	3-Clean Sand
6	8.30	2.05	6.25	7.80	2-Clay and Silty Sand
7	2.05	0.80	1.25	4.00	3-Clean Sand
8	0.80	-15.45	16.25	2.15	2-Clay and Silty Sand
9	-15.45	-16.70	1.25	4.00	3-Clean Sand
10	-16.70	-30.45	13.75	52.45	2-Clay and Silty Sand
11	-30.45	-31.70	1.25	15.00	3-Clean Sand
12	-31.70	-32.95	1.25	15.00	2-Clay and Silty Sand
13	-32.95	-34.20	1.25	2.00	3-Clean Sand
14	-34.20	-40.45	6.25	2.40	2-Clay and Silty Sand
15	-40.45	-41.70	1.25	4.00	3-Clean Sand
16	-41.70	-42.95	1.25	17.00	2-Clay and Silty Sand
17	-42.95	-44.20	1.25	17.00	3-Clean Sand
18	-44.20	-61.70	17.50	80.00	2-Clay and Silty Sand
19	-61.70	-64.70	3.00	99.00	4-Limestone, Very
Shelly Sand					
20	-64.70	-64.70	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	28.30
18.00	12.00	26.30
18.00	14.00	24.30
18.00	16.00	22.30
18.00	18.00	20.30
18.00	20.00	18.30
18.00	22.00	16.30
18.00	24.00	14.30
18.00	26.00	12.30
18.00	28.00	10.30
18.00	30.00	8.30
18.00	32.00	6.30
18.00	34.00	4.30
18.00	36.00	2.30
18.00	38.00	0.30
18.00	40.00	-1.70
18.00	42.00	-3.70
18.00	44.00	-5.70
18.00	46.00	-7.70

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18.00	48.00	-9.70
18.00	50.00	-11.70
18.00	52.00	-13.70
18.00	54.00	-15.70
18.00	56.00	-17.70
18.00	58.00	-19.70
18.00	60.00	-21.70
18.00	62.00	-23.70
18.00	64.00	-25.70
18.00	66.00	-27.70
18.00	68.00	-29.70
18.00	70.00	-31.70
18.00	72.00	-33.70
18.00	74.00	-35.70
18.00	76.00	-37.70
18.00	78.00	-39.70
18.00	80.00	-41.70
18.00	82.00	-43.70
18.00	84.00	-45.70
18.00	86.00	-47.70
18.00	88.00	-49.70
18.00	90.00	-51.70
18.00	92.00	-53.70
18.00	94.00	-55.70
18.00	96.00	-57.70
18.00	98.00	-59.70
18.00	100.00	-61.70
18.00	102.00	-63.70
18.00	104.00	-65.70

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	11.17	22.41	33.57	16.79	78.38
12.00	18.0	13.15	24.17	37.31	18.66	85.64
14.00	18.0	16.68	28.65	45.33	22.67	102.63
16.00	18.0	25.00	31.68	56.67	28.34	120.03
18.00	18.0	34.52	36.03	70.55	35.28	142.61
20.00	18.0	45.78	50.41	96.19	48.10	197.02
22.00	18.0	50.90	50.97	101.87	50.93	203.81

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24.00	18.0	58.10	50.88	108.98	54.49	210.75
26.00	18.0	67.69	44.57	112.26	56.13	201.41
28.00	18.0	79.32	21.25	100.56	50.28	143.06
30.00	18.0	85.47	10.72	96.19	48.10	117.63
32.00	18.0	90.87	9.63	100.50	50.25	119.75
34.00	18.0	95.06	7.06	102.12	51.06	116.25
36.00	18.0	98.69	5.04	103.73	51.86	113.81
38.00	18.0	98.74	9.41	108.15	54.07	126.96
40.00	18.0	98.74	4.76	103.51	51.75	113.04
42.00	18.0	98.74	2.52	101.26	50.63	106.30
44.00	18.0	98.74	1.48	100.22	50.11	103.17
46.00	18.0	98.74	0.69	99.44	49.72	100.82
48.00	18.0	98.74	0.01	98.75	49.38	98.78
50.00	18.0	98.74	6.00	104.74	52.37	116.74
52.00	18.0	98.74	19.71	118.46	59.23	157.89
54.00	18.0	98.93	31.65	130.58	65.29	193.87
56.00	18.0	111.00	38.06	149.06	74.53	225.17
58.00	18.0	123.89	41.93	165.83	82.91	249.70
60.00	18.0	136.49	49.92	186.41	93.20	286.24
62.00	18.0	151.12	58.54	209.66	104.83	326.75
64.00	18.0	166.85	61.45	228.30	114.15	351.20
66.00	18.0	182.56	57.07	239.63	119.82	353.77
68.00	18.0	197.74	44.70	242.44	121.22	331.84
70.00	18.0	212.30	2.66	214.96	107.48	220.27
72.00	18.0	215.08	0.00	215.08	107.54	215.08
74.00	18.0	215.08	22.06	237.14	118.57	281.26
76.00	18.0	215.08	21.88	236.96	118.48	280.72
78.00	18.0	215.08	28.15	243.23	121.62	299.54
80.00	18.0	218.15	35.31	253.46	126.73	324.07
82.00	18.0	225.61	38.93	264.54	132.27	342.39
84.00	18.0	239.96	43.11	283.07	141.53	369.28
86.00	18.0	252.79	48.04	300.83	150.42	396.91
88.00	18.0	265.79	56.97	322.76	161.38	436.70
90.00	18.0	281.03	64.33	345.36	172.68	474.01
92.00	18.0	296.74	69.67	366.41	183.20	505.75
94.00	18.0	312.45	77.16	389.61	194.81	543.93
96.00	18.0	328.16	93.43	421.59	210.79	608.44
98.00	18.0	*****	Not enough soil data	*****		
100.00	18.0	0.00	0.00	0.00	0.00	0.00
102.00	18.0	0.00	0.00	0.00	0.00	0.00
104.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.

3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE  
ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B20\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 9-27-13, Boring Number: WL2-B20  
 Station number: 808+20 Offset: 57 RT

Ground Elevation: 39.900(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	9.00	3- Clean sand
2	2.00	9.00	3- Clean sand
3	4.00	10.00	3- Clean sand
4	6.00	9.00	3- Clean sand
5	8.00	12.00	3- Clean sand
6	10.00	13.00	2- Clay and silty sand
7	12.50	13.00	2- Clay and silty sand
8	13.75	13.00	3- Clean sand
9	15.00	30.00	2- Clay and silty sand
10	16.25	15.00	3- Clean sand
11	17.50	15.00	2- Clay and silty sand
12	20.00	11.00	2- Clay and silty sand
13	22.50	6.00	2- Clay and silty sand
14	25.00	6.00	2- Clay and silty sand
15	26.25	2.00	3- Clean sand
16	27.50	2.00	2- Clay and silty sand
17	30.00	2.00	2- Clay and silty sand



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18	32.50	2.00	2- Clay and silty sand
19	35.00	3.00	2- Clay and silty sand
20	37.50	0.00	2- Clay and silty sand
21	40.00	2.00	2- Clay and silty sand
22	42.50	4.00	2- Clay and silty sand
23	43.75	4.00	3- Clean sand
24	45.00	5.00	2- Clay and silty sand
25	47.50	11.00	2- Clay and silty sand
26	48.75	11.00	3- Clean sand
27	50.00	34.00	2- Clay and silty sand
28	52.50	31.00	2- Clay and silty sand
29	55.00	40.00	2- Clay and silty sand
30	57.50	44.00	2- Clay and silty sand
31	60.00	39.00	2- Clay and silty sand
32	62.50	43.00	2- Clay and silty sand
33	65.00	36.00	2- Clay and silty sand
34	67.50	27.00	2- Clay and silty sand
35	70.00	25.00	2- Clay and silty sand
36	71.25	2.00	3- Clean sand
37	72.50	2.00	2- Clay and silty sand
38	73.75	2.00	3- Clean sand
39	75.00	15.00	2- Clay and silty sand
40	76.25	2.00	3- Clean sand
41	77.50	2.00	2- Clay and silty sand
42	80.00	0.00	2- Clay and silty sand
43	82.50	0.00	2- Clay and silty sand
44	85.00	0.00	2- Clay and silty sand
45	87.50	1.00	2- Clay and silty sand
46	90.00	4.00	2- Clay and silty sand
47	91.25	4.00	3- Clean sand
48	92.50	5.00	2- Clay and silty sand
49	95.00	7.00	2- Clay and silty sand
50	97.50	7.00	2- Clay and silty sand
51	100.00	6.00	1- Plastic Clay
52	102.50	10.00	1- Plastic Clay
53	105.00	6.00	2- Clay and silty sand
54	106.25	6.00	3- Clean sand
55	107.50	45.00	2- Clay and silty sand
56	110.00	8.00	1- Plastic Clay
57	112.50	11.00	1- Plastic Clay
58	115.00	9.00	1- Plastic Clay
59	117.50	1.00	2- Clay and silty sand
60	118.75	1.00	3- Clean sand
61	120.00	6.00	2- Clay and silty sand
62	121.25	3.00	3- Clean sand
63	122.50	3.00	2- Clay and silty sand
64	125.00	2.00	2- Clay and silty sand
65	126.25	2.00	3- Clean sand

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66	127.50	6.00	2- Clay and silty sand
67	130.00	14.00	2- Clay and silty sand
68	132.50	8.00	2- Clay and silty sand
69	135.00	8.00	2- Clay and silty sand
70	137.50	8.00	2- Clay and silty sand
71	138.75	3.00	3- Clean sand
72	140.00	3.00	2- Clay and silty sand
73	141.25	3.00	3- Clean sand
74	142.50	10.00	2- Clay and silty sand
75	145.00	45.00	3- Clean sand
76	147.50	30.00	3- Clean sand
77	150.00	39.00	3- Clean sand
78	152.50	22.00	3- Clean sand
79	155.00	50.00	3- Clean sand
80	157.50	44.00	3- Clean sand
81	160.00	32.00	2- Clay and silty sand
82	161.25	10.00	3- Clean sand
83	162.50	10.00	2- Clay and silty sand
84	165.00	35.00	4- Lime Stone/Very shelly sand
85	166.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	39.90	29.90	10.00	9.80	3-Clean Sand
2	29.90	26.15	3.75	13.00	2-Clay and Silty Sand
3	26.15	24.90	1.25	13.00	3-Clean Sand
4	24.90	23.65	1.25	30.00	2-Clay and Silty Sand
5	23.65	22.40	1.25	15.00	3-Clean Sand
6	22.40	13.65	8.75	10.00	2-Clay and Silty Sand
7	13.65	12.40	1.25	2.00	3-Clean Sand
8	12.40	-3.85	16.25	2.00	2-Clay and Silty Sand
9	-3.85	-5.10	1.25	4.00	3-Clean Sand
10	-5.10	-8.85	3.75	7.00	2-Clay and Silty Sand
11	-8.85	-10.10	1.25	11.00	3-Clean Sand
12	-10.10	-31.35	21.25	36.06	2-Clay and Silty Sand
13	-31.35	-32.60	1.25	2.00	3-Clean Sand
14	-32.60	-33.85	1.25	2.00	2-Clay and Silty Sand
15	-33.85	-35.10	1.25	2.00	3-Clean Sand
16	-35.10	-36.35	1.25	15.00	2-Clay and Silty Sand
17	-36.35	-37.60	1.25	2.00	3-Clean Sand

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18	-37.60	-51.35	13.75	0.91	2-Clay and Silty Sand
19	-51.35	-52.60	1.25	4.00	3-Clean Sand
20	-52.60	-60.10	7.50	6.33	2-Clay and Silty Sand
21	-60.10	-65.10	5.00	8.00	1-Plastic Clay
22	-65.10	-66.35	1.25	6.00	2-Clay and Silty Sand
23	-66.35	-67.60	1.25	6.00	3-Clean Sand
24	-67.60	-70.10	2.50	45.00	2-Clay and Silty Sand
25	-70.10	-77.60	7.50	9.33	1-Plastic Clay
26	-77.60	-78.85	1.25	1.00	2-Clay and Silty Sand
27	-78.85	-80.10	1.25	1.00	3-Clean Sand
28	-80.10	-81.35	1.25	6.00	2-Clay and Silty Sand
29	-81.35	-82.60	1.25	3.00	3-Clean Sand
30	-82.60	-86.35	3.75	2.67	2-Clay and Silty Sand
31	-86.35	-87.60	1.25	2.00	3-Clean Sand
32	-87.60	-98.85	11.25	8.89	2-Clay and Silty Sand
33	-98.85	-100.10	1.25	3.00	3-Clean Sand
34	-100.10	-101.35	1.25	3.00	2-Clay and Silty Sand
35	-101.35	-102.60	1.25	3.00	3-Clean Sand
36	-102.60	-105.10	2.50	10.00	2-Clay and Silty Sand
37	-105.10	-120.10	15.00	38.33	3-Clean Sand
38	-120.10	-121.35	1.25	32.00	2-Clay and Silty Sand
39	-121.35	-122.60	1.25	10.00	3-Clean Sand
40	-122.60	-125.10	2.50	10.00	2-Clay and Silty Sand
41	-125.10	-126.10	1.00	35.00	4-Limestone, Very
Shelly Sand					
42	-126.10	-126.10	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	29.90
18.00	12.00	27.90
18.00	14.00	25.90
18.00	16.00	23.90
18.00	18.00	21.90
18.00	20.00	19.90
18.00	22.00	17.90
18.00	24.00	15.90
18.00	26.00	13.90
18.00	28.00	11.90
18.00	30.00	9.90

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18.00	32.00	7.90
18.00	34.00	5.90
18.00	36.00	3.90
18.00	38.00	1.90
18.00	40.00	-0.10
18.00	42.00	-2.10
18.00	44.00	-4.10
18.00	46.00	-6.10
18.00	48.00	-8.10
18.00	50.00	-10.10
18.00	52.00	-12.10
18.00	54.00	-14.10
18.00	56.00	-16.10
18.00	58.00	-18.10
18.00	60.00	-20.10
18.00	62.00	-22.10
18.00	64.00	-24.10
18.00	66.00	-26.10
18.00	68.00	-28.10
18.00	70.00	-30.10
18.00	72.00	-32.10
18.00	74.00	-34.10
18.00	76.00	-36.10
18.00	78.00	-38.10
18.00	80.00	-40.10
18.00	82.00	-42.10
18.00	84.00	-44.10
18.00	86.00	-46.10
18.00	88.00	-48.10
18.00	90.00	-50.10
18.00	92.00	-52.10
18.00	94.00	-54.10
18.00	96.00	-56.10
18.00	98.00	-58.10
18.00	100.00	-60.10
18.00	102.00	-62.10
18.00	104.00	-64.10
18.00	106.00	-66.10
18.00	108.00	-68.10
18.00	110.00	-70.10
18.00	112.00	-72.10
18.00	114.00	-74.10
18.00	116.00	-76.10
18.00	118.00	-78.10
18.00	120.00	-80.10
18.00	122.00	-82.10
18.00	124.00	-84.10
18.00	126.00	-86.10

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18.00	128.00	-88.10
18.00	130.00	-90.10
18.00	132.00	-92.10
18.00	134.00	-94.10
18.00	136.00	-96.10
18.00	138.00	-98.10
18.00	140.00	-100.10
18.00	142.00	-102.10
18.00	144.00	-104.10
18.00	146.00	-106.10
18.00	148.00	-108.10
18.00	150.00	-110.10
18.00	152.00	-112.10
18.00	154.00	-114.10
18.00	156.00	-116.10
18.00	158.00	-118.10
18.00	160.00	-120.10
18.00	162.00	-122.10
18.00	164.00	-124.10
18.00	166.00	-126.10
18.00	168.00	-128.10
18.00	170.00	-130.10

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
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10.00	18.0	16.54	28.29	44.84	22.42	101.42
12.00	18.0	24.47	27.72	52.19	26.10	107.64
14.00	18.0	30.66	30.24	60.91	30.45	121.39
16.00	18.0	40.76	26.19	66.95	33.47	119.33
18.00	18.0	47.41	15.86	63.27	31.64	95.00
20.00	18.0	55.38	15.00	70.38	35.19	100.38
22.00	18.0	61.11	11.47	72.58	36.29	95.51
24.00	18.0	65.18	8.56	73.74	36.87	90.87
26.00	18.0	68.38	6.35	74.73	37.36	87.44
28.00	18.0	68.43	6.70	75.13	37.56	88.54
30.00	18.0	68.43	4.04	72.47	36.23	80.55
32.00	18.0	68.43	2.48	70.91	35.45	75.87
34.00	18.0	68.43	1.36	69.79	34.89	72.52
36.00	18.0	68.43	0.60	69.03	34.51	70.24

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38.00	18.0	68.43	0.01	68.43	34.22	68.45
40.00	18.0	68.43	0.63	69.06	34.53	70.32
42.00	18.0	68.43	2.90	71.32	35.66	77.12
44.00	18.0	68.46	7.05	75.51	37.75	89.60
46.00	18.0	71.03	12.81	83.84	41.92	109.46
48.00	18.0	74.50	17.93	92.43	46.21	128.28
50.00	18.0	84.66	30.40	115.06	57.53	175.86
52.00	18.0	97.20	32.62	129.82	64.91	195.07
54.00	18.0	108.10	39.35	147.45	73.72	226.15
56.00	18.0	121.19	48.83	170.02	85.01	267.68
58.00	18.0	136.88	53.31	190.19	95.09	296.80
60.00	18.0	152.52	56.30	208.83	104.41	321.43
62.00	18.0	168.18	55.72	223.90	111.95	335.33
64.00	18.0	183.85	52.56	236.41	118.20	341.52
66.00	18.0	199.02	47.65	246.67	123.33	341.96
68.00	18.0	212.94	38.13	251.07	125.53	327.33
70.00	18.0	226.12	30.50	256.61	128.31	317.60
72.00	18.0	238.62	2.66	241.27	120.64	246.59
74.00	18.0	238.73	19.95	258.68	129.34	298.58
76.00	18.0	244.07	13.39	257.46	128.73	284.25
78.00	18.0	244.18	8.92	253.10	126.55	270.95
80.00	18.0	244.18	5.33	249.51	124.76	260.17
82.00	18.0	244.18	2.13	246.31	123.16	250.57
84.00	18.0	244.18	1.16	245.34	122.67	247.67
86.00	18.0	244.18	1.14	245.32	122.66	247.60
88.00	18.0	244.18	1.03	245.21	122.61	247.27
90.00	18.0	244.18	2.82	247.00	123.50	252.63
92.00	18.0	244.51	4.11	248.62	124.31	256.84
94.00	18.0	247.84	5.15	252.99	126.50	263.29
96.00	18.0	252.27	5.19	257.46	128.73	267.84
98.00	18.0	256.71	5.35	262.07	131.03	272.78
100.00	18.0	261.71	6.62	268.33	134.17	281.58
102.00	18.0	266.14	8.72	274.86	137.43	292.31
104.00	18.0	271.27	17.99	289.26	144.63	325.24
106.00	18.0	277.66	18.83	296.49	148.25	334.15
108.00	18.0	285.45	21.93	307.38	153.69	351.25
110.00	18.0	297.00	6.31	303.31	151.65	315.93
112.00	18.0	303.72	5.57	309.28	154.64	320.42
114.00	18.0	311.26	4.57	315.82	157.91	324.96
116.00	18.0	317.33	4.35	321.68	160.84	330.38
118.00	18.0	318.82	1.06	319.88	159.94	322.00
120.00	18.0	320.06	4.88	324.95	162.47	334.72
122.00	18.0	321.31	0.07	321.38	160.69	321.51
124.00	18.0	321.31	3.13	324.44	162.22	330.70
126.00	18.0	321.31	5.41	326.72	163.36	337.53
128.00	18.0	323.65	8.63	332.28	166.14	349.55
130.00	18.0	329.89	8.89	338.78	169.39	356.55
132.00	18.0	336.63	9.24	345.87	172.94	364.35

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134.00	18.0	342.12	8.91	351.03	175.51	368.84	
136.00	18.0	347.34	7.63	354.97	177.49	370.24	
138.00	18.0	352.30	9.64	361.94	180.97	381.23	
140.00	18.0	353.46	27.57	381.03	190.51	436.16	
142.00	18.0	354.08	41.44	395.52	197.76	478.40	
144.00	18.0	360.80	53.21	414.01	207.00	520.43	
146.00	18.0	373.08	64.53	437.61	218.81	566.68	
148.00	18.0	381.67	65.32	446.99	223.49	577.63	
150.00	18.0	388.40	68.88	457.29	228.64	595.05	
152.00	18.0	392.67	76.82	469.49	234.75	623.13	
154.00	18.0	397.16	85.83	482.99	241.49	654.64	
156.00	18.0	409.47	85.11	494.58	247.29	664.80	
158.00	18.0	427.37	75.08	502.45	251.22	652.61	
160.00	18.0	449.24	50.85	500.09	250.05	601.79	
162.00	18.0	***** Not enough soil data *****					
164.00	18.0	0.00	0.00	0.00	0.00	0.00	
166.00	18.0	0.00	0.00	0.00	0.00	0.00	
168.00	18.0	0.00	0.00	0.00	0.00	0.00	
170.00	18.0	0.00	0.00	0.00	0.00	0.00	

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....culations-Analyses\FB-Deep\Wildlife No 2\WL2-B20a\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 7-29-14, Boring Number: WL2-B20a  
 Station number: 806+90 Offset: 65 RT

Ground Elevation: 42.000(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	4.00	3- Clean sand
2	2.00	4.00	3- Clean sand
3	3.00	4.00	2- Clay and silty sand
4	4.00	10.00	3- Clean sand
5	6.00	14.00	3- Clean sand
6	8.00	8.00	3- Clean sand
7	10.00	10.00	3- Clean sand
8	12.50	12.00	3- Clean sand
9	15.00	10.00	2- Clay and silty sand
10	17.50	12.00	2- Clay and silty sand
11	18.75	4.00	3- Clean sand
12	20.00	4.00	2- Clay and silty sand
13	22.50	3.00	2- Clay and silty sand
14	25.00	2.00	2- Clay and silty sand
15	27.50	1.00	2- Clay and silty sand
16	30.00	2.00	3- Clean sand
17	32.50	0.00	3- Clean sand



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18	35.00	2.00	3- Clean sand
19	36.25	2.00	2- Clay and silty sand
20	37.50	14.00	3- Clean sand
21	40.00	16.00	3- Clean sand
22	42.50	17.00	3- Clean sand
23	45.00	18.00	3- Clean sand
24	47.50	23.00	3- Clean sand
25	50.00	30.00	3- Clean sand
26	52.50	24.00	3- Clean sand
27	55.00	27.00	3- Clean sand
28	57.50	24.00	3- Clean sand
29	60.00	10.00	3- Clean sand
30	62.50	4.00	2- Clay and silty sand
31	65.00	5.00	2- Clay and silty sand
32	67.50	4.00	2- Clay and silty sand
33	70.00	5.00	2- Clay and silty sand
34	71.25	5.00	3- Clean sand
35	72.50	9.00	2- Clay and silty sand
36	73.75	9.00	3- Clean sand
37	75.00	28.00	2- Clay and silty sand
38	77.50	99.00	4- Lime Stone/Very shelly sand
39	78.75	16.00	3- Clean sand
40	80.00	16.00	4- Lime Stone/Very shelly sand
41	82.50	10.00	2- Clay and silty sand
42	85.00	6.00	2- Clay and silty sand
43	86.25	6.00	3- Clean sand
44	87.50	99.00	2- Clay and silty sand
45	90.00	99.00	2- Clay and silty sand
46	92.50	99.00	2- Clay and silty sand
47	95.00	99.00	2- Clay and silty sand
48	97.50	55.00	2- Clay and silty sand
49	100.00	99.00	2- Clay and silty sand
50	102.50	99.00	2- Clay and silty sand
51	105.00	99.00	2- Clay and silty sand
52	106.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	42.00	39.00	3.00	4.00	3-Clean Sand
2	39.00	38.00	1.00	4.00	2-Clay and Silty Sand

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3	38.00	27.00	11.00	10.82	3-Clean Sand
4	27.00	23.25	3.75	10.67	2-Clay and Silty Sand
5	23.25	22.00	1.25	4.00	3-Clean Sand
6	22.00	12.00	10.00	2.50	2-Clay and Silty Sand
7	12.00	5.75	6.25	1.20	3-Clean Sand
8	5.75	4.50	1.25	2.00	2-Clay and Silty Sand
9	4.50	-20.50	25.00	20.30	3-Clean Sand
10	-20.50	-29.25	8.75	4.43	2-Clay and Silty Sand
11	-29.25	-30.50	1.25	5.00	3-Clean Sand
12	-30.50	-31.75	1.25	9.00	2-Clay and Silty Sand
13	-31.75	-33.00	1.25	9.00	3-Clean Sand
14	-33.00	-35.50	2.50	28.00	2-Clay and Silty Sand
15	-35.50	-36.75	1.25	99.00	4-Limestone, Very
Shelly Sand					
16	-36.75	-38.00	1.25	16.00	3-Clean Sand
17	-38.00	-40.50	2.50	16.00	4-Limestone, Very
Shelly Sand					
18	-40.50	-44.25	3.75	8.67	2-Clay and Silty Sand
19	-44.25	-45.50	1.25	6.00	3-Clean Sand
20	-45.50	-64.00	18.50	93.05	2-Clay and Silty Sand
21	-64.00	-64.00	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	32.00
18.00	12.00	30.00
18.00	14.00	28.00
18.00	16.00	26.00
18.00	18.00	24.00
18.00	20.00	22.00
18.00	22.00	20.00
18.00	24.00	18.00
18.00	26.00	16.00
18.00	28.00	14.00
18.00	30.00	12.00
18.00	32.00	10.00
18.00	34.00	8.00
18.00	36.00	6.00
18.00	38.00	4.00
18.00	40.00	2.00

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18.00	42.00	0.00
18.00	44.00	-2.00
18.00	46.00	-4.00
18.00	48.00	-6.00
18.00	50.00	-8.00
18.00	52.00	-10.00
18.00	54.00	-12.00
18.00	56.00	-14.00
18.00	58.00	-16.00
18.00	60.00	-18.00
18.00	62.00	-20.00
18.00	64.00	-22.00
18.00	66.00	-24.00
18.00	68.00	-26.00
18.00	70.00	-28.00
18.00	72.00	-30.00
18.00	74.00	-32.00
18.00	76.00	-34.00
18.00	78.00	-36.00
18.00	80.00	-38.00
18.00	82.00	-40.00
18.00	84.00	-42.00
18.00	86.00	-44.00
18.00	88.00	-46.00
18.00	90.00	-48.00
18.00	92.00	-50.00
18.00	94.00	-52.00
18.00	96.00	-54.00
18.00	98.00	-56.00
18.00	100.00	-58.00
18.00	102.00	-60.00
18.00	104.00	-62.00

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	7.89	20.84	28.72	14.36	70.40
12.00	18.0	11.12	20.59	31.71	15.85	72.89
14.00	18.0	15.55	19.90	35.45	17.73	75.25
16.00	18.0	22.65	10.14	32.79	16.39	53.06

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18.00	18.0	29.80	8.39	38.19	19.10	54.98
20.00	18.0	30.63	10.45	41.08	20.54	61.97
22.00	18.0	30.63	8.22	38.85	19.42	55.28
24.00	18.0	30.63	5.54	36.17	18.08	47.24
26.00	18.0	30.63	2.96	33.60	16.80	39.52
28.00	18.0	30.63	1.53	32.16	16.08	35.21
30.00	18.0	30.63	0.17	30.80	15.40	31.13
32.00	18.0	30.63	0.48	31.11	15.56	32.08
34.00	18.0	30.63	4.44	35.07	17.53	43.94
36.00	18.0	30.63	12.63	43.26	21.63	68.53
38.00	18.0	32.82	24.66	57.48	28.74	106.81
40.00	18.0	36.16	25.82	61.98	30.99	113.62
42.00	18.0	38.96	28.91	67.87	33.94	125.70
44.00	18.0	41.41	35.04	76.45	38.22	146.52
46.00	18.0	44.12	44.78	88.90	44.45	178.47
48.00	18.0	48.25	55.13	103.38	51.69	213.64
50.00	18.0	54.17	64.77	118.94	59.47	248.48
52.00	18.0	61.11	69.87	130.97	65.49	270.71
54.00	18.0	67.79	69.07	136.86	68.43	275.00
56.00	18.0	74.89	61.61	136.51	68.25	259.74
58.00	18.0	81.60	50.26	131.86	65.93	232.38
60.00	18.0	86.35	40.79	127.14	63.57	208.72
62.00	18.0	88.81	32.84	121.65	60.82	187.33
64.00	18.0	101.89	3.00	104.90	52.45	110.90
66.00	18.0	103.99	4.23	108.22	54.11	116.69
68.00	18.0	104.32	6.56	110.88	55.44	123.99
70.00	18.0	106.08	12.47	118.55	59.27	143.49
72.00	18.0	109.73	24.32	134.05	67.02	182.69
74.00	18.0	114.25	45.62	159.87	79.93	251.12
76.00	18.0	125.02	49.33	174.35	87.17	273.00
78.00	18.0	133.59	39.20	172.79	86.39	251.19
80.00	18.0	137.74	22.43	160.18	80.09	205.04
82.00	18.0	140.99	23.70	164.69	82.35	212.09
84.00	18.0	146.93	23.85	170.78	85.39	218.48
86.00	18.0	148.99	31.45	180.45	90.22	243.35
88.00	18.0	160.79	61.30	222.10	111.05	344.71
90.00	18.0	176.50	56.54	233.04	116.52	346.12
92.00	18.0	192.21	57.34	249.56	124.78	364.24
94.00	18.0	207.92	60.17	268.09	134.05	388.43
96.00	18.0	223.63	64.96	288.59	144.30	418.51
98.00	18.0	239.34	70.02	309.36	154.68	449.39
100.00	18.0	255.05	71.79	326.84	163.42	470.41
102.00	18.0	*****	Not enough soil data	*****		
104.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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 1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.

2. DAVISSEON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA,  
AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSEON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE  
ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....culations-Analyses\FB-Deep\Wildlife No 2\WL2-B20b\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 8-6-14, Boring Number: WL2-B20b  
 Station number: 809+15 Offset: 65 RT

Ground Elevation: 41.000(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	6.00	3- Clean sand
2	2.00	6.00	3- Clean sand
3	4.00	7.00	3- Clean sand
4	6.00	6.00	3- Clean sand
5	8.00	8.00	3- Clean sand
6	10.00	7.00	3- Clean sand
7	11.25	7.00	2- Clay and silty sand
8	12.50	16.00	3- Clean sand
9	15.00	18.00	3- Clean sand
10	17.50	14.00	2- Clay and silty sand
11	18.75	7.00	3- Clean sand
12	20.00	7.00	2- Clay and silty sand
13	22.50	6.00	3- Clean sand
14	23.75	2.00	2- Clay and silty sand
15	25.00	2.00	3- Clean sand
16	27.50	1.00	3- Clean sand
17	30.00	2.00	3- Clean sand

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18	32.50	0.00	3-	Clean sand
19	35.00	2.00	3-	Clean sand
20	37.50	1.00	3-	Clean sand
21	38.75	1.00	2-	Clay and silty sand
22	40.00	7.00	3-	Clean sand
23	41.25	7.00	2-	Clay and silty sand
24	42.50	26.00	3-	Clean sand
25	45.00	12.00	3-	Clean sand
26	46.25	2.00	2-	Clay and silty sand
27	47.50	2.00	3-	Clean sand
28	50.00	1.00	2-	Clay and silty sand
29	51.25	1.00	3-	Clean sand
30	52.50	6.00	2-	Clay and silty sand
31	55.00	7.00	2-	Clay and silty sand
32	57.50	5.00	2-	Clay and silty sand
33	58.75	0.00	3-	Clean sand
34	60.00	0.00	2-	Clay and silty sand
35	62.50	2.00	1-	Plastic Clay
36	63.75	2.00	2-	Clay and silty sand
37	65.00	28.00	1-	Plastic Clay
38	67.50	18.00	1-	Plastic Clay
39	70.00	27.00	2-	Clay and silty sand
40	71.25	27.00	3-	Clean sand
41	72.50	99.00	2-	Clay and silty sand
42	75.00	99.00	2-	Clay and silty sand
43	77.50	99.00	2-	Clay and silty sand
44	80.00	99.00	2-	Clay and silty sand
45	82.50	99.00	4-	Lime Stone/Very shelly sand
46	85.00	40.00	2-	Clay and silty sand
47	87.50	99.00	2-	Clay and silty sand
48	90.00	99.00	2-	Clay and silty sand
49	92.50	99.00	2-	Clay and silty sand
50	93.75	21.00	3-	Clean sand
51	95.00	21.00	2-	Clay and silty sand
52	96.25	21.00	3-	Clean sand
53	97.50	43.00	2-	Clay and silty sand
54	100.00	46.00	2-	Clay and silty sand
55	101.00	0.00	5-	Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
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1	41.00	29.75	11.25	6.64	3-Clean Sand
2	29.75	28.50	1.25	7.00	2-Clay and Silty Sand
3	28.50	23.50	5.00	17.00	3-Clean Sand
4	23.50	22.25	1.25	14.00	2-Clay and Silty Sand
5	22.25	21.00	1.25	7.00	3-Clean Sand
6	21.00	18.50	2.50	7.00	2-Clay and Silty Sand
7	18.50	17.25	1.25	6.00	3-Clean Sand
8	17.25	16.00	1.25	2.00	2-Clay and Silty Sand
9	16.00	2.25	13.75	1.36	3-Clean Sand
10	2.25	1.00	1.25	1.00	2-Clay and Silty Sand
11	1.00	-0.25	1.25	7.00	3-Clean Sand
12	-0.25	-1.50	1.25	7.00	2-Clay and Silty Sand
13	-1.50	-5.25	3.75	21.33	3-Clean Sand
14	-5.25	-6.50	1.25	2.00	2-Clay and Silty Sand
15	-6.50	-9.00	2.50	2.00	3-Clean Sand
16	-9.00	-10.25	1.25	1.00	2-Clay and Silty Sand
17	-10.25	-11.50	1.25	1.00	3-Clean Sand
18	-11.50	-17.75	6.25	6.20	2-Clay and Silty Sand
19	-17.75	-19.00	1.25	0.00	3-Clean Sand
20	-19.00	-21.50	2.50	0.00	2-Clay and Silty Sand
21	-21.50	-22.75	1.25	2.00	1-Plastic Clay
22	-22.75	-24.00	1.25	2.00	2-Clay and Silty Sand
23	-24.00	-29.00	5.00	23.00	1-Plastic Clay
24	-29.00	-30.25	1.25	27.00	2-Clay and Silty Sand
25	-30.25	-31.50	1.25	27.00	3-Clean Sand
26	-31.50	-41.50	10.00	99.00	2-Clay and Silty Sand
27	-41.50	-44.00	2.50	99.00	4-Limestone, Very
Shelly Sand					
28	-44.00	-52.75	8.75	82.14	2-Clay and Silty Sand
29	-52.75	-54.00	1.25	21.00	3-Clean Sand
30	-54.00	-55.25	1.25	21.00	2-Clay and Silty Sand
31	-55.25	-56.50	1.25	21.00	3-Clean Sand
32	-56.50	-60.00	3.50	43.86	2-Clay and Silty Sand
33	-60.00	-60.00	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	31.00
18.00	12.00	29.00



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18.00	14.00	27.00
18.00	16.00	25.00
18.00	18.00	23.00
18.00	20.00	21.00
18.00	22.00	19.00
18.00	24.00	17.00
18.00	26.00	15.00
18.00	28.00	13.00
18.00	30.00	11.00
18.00	32.00	9.00
18.00	34.00	7.00
18.00	36.00	5.00
18.00	38.00	3.00
18.00	40.00	1.00
18.00	42.00	-1.00
18.00	44.00	-3.00
18.00	46.00	-5.00
18.00	48.00	-7.00
18.00	50.00	-9.00
18.00	52.00	-11.00
18.00	54.00	-13.00
18.00	56.00	-15.00
18.00	58.00	-17.00
18.00	60.00	-19.00
18.00	62.00	-21.00
18.00	64.00	-23.00
18.00	66.00	-25.00
18.00	68.00	-27.00
18.00	70.00	-29.00
18.00	72.00	-31.00
18.00	74.00	-33.00
18.00	76.00	-35.00
18.00	78.00	-37.00
18.00	80.00	-39.00
18.00	82.00	-41.00
18.00	84.00	-43.00
18.00	86.00	-45.00
18.00	88.00	-47.00
18.00	90.00	-49.00
18.00	92.00	-51.00
18.00	94.00	-53.00
18.00	96.00	-55.00
18.00	98.00	-57.00
18.00	100.00	-59.00

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	8.37	28.57	36.93	18.47	94.06
12.00	18.0	13.22	31.55	44.77	22.39	107.88
14.00	18.0	17.90	29.45	47.35	23.68	106.25
16.00	18.0	23.27	24.94	48.21	24.10	98.09
18.00	18.0	30.44	16.33	46.77	23.39	79.43
20.00	18.0	34.14	8.86	43.00	21.50	60.71
22.00	18.0	37.58	8.57	46.16	23.08	63.30
24.00	18.0	38.61	0.00	38.61	19.30	38.61
26.00	18.0	38.61	9.89	48.50	24.25	68.29
28.00	18.0	38.61	5.75	44.36	22.18	55.87
30.00	18.0	38.61	3.40	42.01	21.01	48.82
32.00	18.0	38.61	1.94	40.55	20.27	44.42
34.00	18.0	38.61	1.02	39.63	19.81	41.67
36.00	18.0	38.61	3.10	41.71	20.85	47.91
38.00	18.0	38.61	13.41	52.02	26.01	78.83
40.00	18.0	39.23	21.86	61.08	30.54	104.80
42.00	18.0	43.32	20.94	64.27	32.13	106.16
44.00	18.0	48.79	32.02	80.81	40.40	144.85
46.00	18.0	52.75	23.34	76.09	38.05	122.78
48.00	18.0	52.80	11.23	64.03	32.01	86.49
50.00	18.0	52.80	13.54	66.34	33.17	93.42
52.00	18.0	53.25	14.57	67.82	33.91	96.96
54.00	18.0	57.18	12.50	69.68	34.84	94.69
56.00	18.0	61.60	6.05	67.65	33.82	79.74
58.00	18.0	65.08	2.49	67.57	33.78	72.55
60.00	18.0	65.46	3.88	69.33	34.67	77.08
62.00	18.0	65.46	4.83	70.28	35.14	79.94
64.00	18.0	65.64	9.90	75.54	37.77	95.33
66.00	18.0	76.13	14.82	90.95	45.47	120.58
68.00	18.0	84.83	29.92	114.75	57.37	174.59
70.00	18.0	103.17	39.91	143.08	71.54	222.89
72.00	18.0	113.36	44.46	157.82	78.91	246.73
74.00	18.0	127.94	48.97	176.91	88.46	274.85
76.00	18.0	140.34	55.52	195.86	97.93	306.90
78.00	18.0	150.98	76.59	227.58	113.79	380.76
80.00	18.0	166.02	87.67	253.69	126.84	429.02
82.00	18.0	178.78	86.22	265.00	132.50	437.44
84.00	18.0	197.58	79.70	277.29	138.64	436.69
86.00	18.0	212.42	66.47	278.90	139.45	411.84
88.00	18.0	228.09	69.11	297.20	148.60	435.42

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90.00	18.0	243.84	65.99	309.83	154.91	441.80
92.00	18.0	259.55	63.49	323.04	161.52	450.01
94.00	18.0	271.02	56.08	327.10	163.55	439.25
96.00	18.0	***** Not enough soil data *****				
98.00	18.0	0.00	0.00	0.00	0.00	0.00
100.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B21\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 8-26-13, Boring Number: WL2-B21  
 Station number: 809+15 Offset: 137 LT

Ground Elevation: 36.900(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	3.00	3- Clean sand
2	2.00	3.00	3- Clean sand
3	3.00	3.00	2- Clay and silty sand
4	4.00	9.00	3- Clean sand
5	6.00	12.00	2- Clay and silty sand
6	8.00	13.00	2- Clay and silty sand
7	10.00	18.00	2- Clay and silty sand
8	12.50	10.00	2- Clay and silty sand
9	13.75	2.00	3- Clean sand
10	15.00	2.00	2- Clay and silty sand
11	16.25	2.00	3- Clean sand
12	17.50	13.00	2- Clay and silty sand
13	20.00	11.00	2- Clay and silty sand
14	22.50	12.00	2- Clay and silty sand
15	25.00	5.00	2- Clay and silty sand
16	26.25	3.00	3- Clean sand
17	27.50	3.00	2- Clay and silty sand

WL2-B21\_18-PCP.txt

18	30.00	2.00	2- Clay and silty sand
19	32.50	0.00	2- Clay and silty sand
20	35.00	2.00	2- Clay and silty sand
21	37.50	0.00	2- Clay and silty sand
22	40.00	4.00	2- Clay and silty sand
23	41.25	4.00	3- Clean sand
24	42.50	13.00	2- Clay and silty sand
25	45.00	23.00	2- Clay and silty sand
26	47.50	15.00	2- Clay and silty sand
27	50.00	18.00	2- Clay and silty sand
28	51.25	2.00	3- Clean sand
29	52.50	2.00	2- Clay and silty sand
30	53.75	2.00	3- Clean sand
31	55.00	13.00	2- Clay and silty sand
32	57.50	18.00	2- Clay and silty sand
33	60.00	6.00	2- Clay and silty sand
34	61.25	2.00	3- Clean sand
35	62.50	2.00	2- Clay and silty sand
36	63.75	2.00	3- Clean sand
37	65.00	28.00	2- Clay and silty sand
38	67.50	25.00	2- Clay and silty sand
39	70.00	99.00	4- Lime Stone/Very shelly sand
40	72.50	99.00	4- Lime Stone/Very shelly sand
41	75.00	99.00	4- Lime Stone/Very shelly sand
42	77.50	99.00	4- Lime Stone/Very shelly sand
43	80.00	99.00	4- Lime Stone/Very shelly sand
44	82.50	99.00	4- Lime Stone/Very shelly sand
45	85.00	99.00	4- Lime Stone/Very shelly sand
46	87.50	99.00	4- Lime Stone/Very shelly sand
47	90.00	99.00	4- Lime Stone/Very shelly sand
48	91.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	36.90	33.90	3.00	3.00	3-Clean Sand
2	33.90	32.90	1.00	3.00	2-Clay and Silty Sand
3	32.90	30.90	2.00	9.00	3-Clean Sand
4	30.90	23.15	7.75	13.87	2-Clay and Silty Sand
5	23.15	21.90	1.25	2.00	3-Clean Sand
6	21.90	20.65	1.25	2.00	2-Clay and Silty Sand

WL2-B21_18-PCP.txt					
7	20.65	19.40	1.25	2.00	3-Clean Sand
8	19.40	10.65	8.75	11.00	2-Clay and Silty Sand
9	10.65	9.40	1.25	3.00	3-Clean Sand
10	9.40	-4.35	13.75	1.64	2-Clay and Silty Sand
11	-4.35	-5.60	1.25	4.00	3-Clean Sand
12	-5.60	-14.35	8.75	17.14	2-Clay and Silty Sand
13	-14.35	-15.60	1.25	2.00	3-Clean Sand
14	-15.60	-16.85	1.25	2.00	2-Clay and Silty Sand
15	-16.85	-18.10	1.25	2.00	3-Clean Sand
16	-18.10	-24.35	6.25	13.60	2-Clay and Silty Sand
17	-24.35	-25.60	1.25	2.00	3-Clean Sand
18	-25.60	-26.85	1.25	2.00	2-Clay and Silty Sand
19	-26.85	-28.10	1.25	2.00	3-Clean Sand
20	-28.10	-33.10	5.00	26.50	2-Clay and Silty Sand
21	-33.10	-54.10	21.00	99.00	4-Limestone, Very
Shelly Sand					
22	-54.10	-54.10	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	26.90
18.00	12.00	24.90
18.00	14.00	22.90
18.00	16.00	20.90
18.00	18.00	18.90
18.00	20.00	16.90
18.00	22.00	14.90
18.00	24.00	12.90
18.00	26.00	10.90
18.00	28.00	8.90
18.00	30.00	6.90
18.00	32.00	4.90
18.00	34.00	2.90
18.00	36.00	0.90
18.00	38.00	-1.10
18.00	40.00	-3.10
18.00	42.00	-5.10
18.00	44.00	-7.10
18.00	46.00	-9.10
18.00	48.00	-11.10

WL2-B21\_18-PCP.txt

18.00	50.00	-13.10
18.00	52.00	-15.10
18.00	54.00	-17.10
18.00	56.00	-19.10
18.00	58.00	-21.10
18.00	60.00	-23.10
18.00	62.00	-25.10
18.00	64.00	-27.10
18.00	66.00	-29.10
18.00	68.00	-31.10
18.00	70.00	-33.10
18.00	72.00	-35.10
18.00	74.00	-37.10
18.00	76.00	-39.10
18.00	78.00	-41.10
18.00	80.00	-43.10
18.00	82.00	-45.10
18.00	84.00	-47.10
18.00	86.00	-49.10
18.00	88.00	-51.10
18.00	90.00	-53.10

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
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10.00	18.0	22.37	12.91	35.28	17.64	61.11
12.00	18.0	31.05	13.00	44.05	22.03	70.06
14.00	18.0	34.71	4.20	38.92	19.46	47.32
16.00	18.0	34.71	14.42	49.13	24.57	77.96
18.00	18.0	39.15	15.51	54.66	27.33	85.68
20.00	18.0	46.45	14.09	60.53	30.27	88.71
22.00	18.0	53.54	10.63	64.17	32.09	85.44
24.00	18.0	60.03	7.14	67.17	33.58	81.45
26.00	18.0	63.13	5.67	68.80	34.40	80.13
28.00	18.0	63.17	5.66	68.83	34.41	80.14
30.00	18.0	63.17	4.76	67.93	33.96	77.44
32.00	18.0	63.17	3.29	66.46	33.23	73.05
34.00	18.0	63.17	1.88	65.05	32.53	68.81
36.00	18.0	63.17	0.59	63.76	31.88	64.94
38.00	18.0	63.17	2.70	65.87	32.94	71.27

WL2-B21\_18-PCP.txt

40.00	18.0	63.17	8.33	71.50	35.75	88.16
42.00	18.0	63.96	12.04	76.00	38.00	100.08
44.00	18.0	71.96	14.53	86.49	43.24	115.55
46.00	18.0	82.64	15.09	97.73	48.86	127.90
48.00	18.0	93.63	13.07	106.70	53.35	132.84
50.00	18.0	103.34	12.01	115.35	57.68	139.38
52.00	18.0	106.54	6.01	112.56	56.28	124.59
54.00	18.0	106.64	19.12	125.77	62.88	164.01
56.00	18.0	113.22	17.16	130.38	65.19	164.71
58.00	18.0	122.78	11.89	134.68	67.34	158.46
60.00	18.0	129.28	11.55	140.83	70.41	163.92
62.00	18.0	130.53	10.98	141.51	70.75	163.46
64.00	18.0	130.69	27.58	158.27	79.13	213.43
66.00	18.0	140.11	45.25	185.36	92.68	275.85
68.00	18.0	147.51	62.19	209.70	104.85	334.09
70.00	18.0	163.89	98.14	262.03	131.01	458.31
72.00	18.0	170.39	100.84	271.23	135.61	472.91
74.00	18.0	175.99	109.44	285.43	142.71	504.31
76.00	18.0	181.40	124.06	305.47	152.73	553.59
78.00	18.0	187.32	142.27	329.58	164.79	614.12
80.00	18.0	194.09	157.84	351.93	175.96	667.61
82.00	18.0	201.29	162.00	363.29	181.64	687.29
84.00	18.0	208.49	162.00	370.49	185.24	694.49
86.00	18.0	*****	Not enough soil data	*****		
88.00	18.0	0.00	0.00	0.00	0.00	0.00
90.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.



General Information:

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Input file: .....culations-Analyses\FB-Deep\Wildlife No 2\WL2-B22\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 8-29-13, Boring Number: WL2-B22  
 Station number: 810+30 Offset: 60 LT

Ground Elevation: 37.900(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	3.00	3- Clean sand
2	2.00	3.00	3- Clean sand
3	3.00	3.00	2- Clay and silty sand
4	4.00	8.00	3- Clean sand
5	6.00	11.00	3- Clean sand
6	8.00	8.00	3- Clean sand
7	10.00	16.00	3- Clean sand
8	12.50	9.00	2- Clay and silty sand
9	15.00	14.00	3- Clean sand
10	17.50	14.00	2- Clay and silty sand
11	20.00	14.00	2- Clay and silty sand
12	22.50	13.00	2- Clay and silty sand
13	25.00	7.00	2- Clay and silty sand
14	27.50	10.00	2- Clay and silty sand
15	28.75	3.00	3- Clean sand
16	30.00	3.00	2- Clay and silty sand
17	32.50	2.00	2- Clay and silty sand

WL2-B22\_18-PCP.txt

18	35.00	2.00	2- Clay and silty sand
19	37.50	2.00	2- Clay and silty sand
20	40.00	2.00	2- Clay and silty sand
21	42.50	3.00	2- Clay and silty sand
22	43.75	3.00	3- Clean sand
23	45.00	9.00	2- Clay and silty sand
24	47.50	12.00	2- Clay and silty sand
25	50.00	11.00	2- Clay and silty sand
26	51.25	2.00	3- Clean sand
27	52.50	2.00	2- Clay and silty sand
28	55.00	0.00	2- Clay and silty sand
29	57.50	0.00	2- Clay and silty sand
30	58.75	0.00	3- Clean sand
31	60.00	8.00	2- Clay and silty sand
32	62.50	15.00	2- Clay and silty sand
33	65.00	23.00	2- Clay and silty sand
34	67.50	18.00	1- Plastic Clay
35	70.00	10.00	2- Clay and silty sand
36	71.25	10.00	3- Clean sand
37	72.50	99.00	2- Clay and silty sand
38	75.00	75.00	2- Clay and silty sand
39	76.25	19.00	3- Clean sand
40	77.50	19.00	2- Clay and silty sand
41	78.75	19.00	3- Clean sand
42	80.00	99.00	2- Clay and silty sand
43	82.50	50.00	2- Clay and silty sand
44	85.00	38.00	4- Lime Stone/Very shelly sand
45	86.25	38.00	3- Clean sand
46	87.50	99.00	4- Lime Stone/Very shelly sand
47	90.00	99.00	4- Lime Stone/Very shelly sand
48	92.50	99.00	4- Lime Stone/Very shelly sand
49	93.75	27.00	3- Clean sand
50	95.00	27.00	4- Lime Stone/Very shelly sand
51	96.25	27.00	3- Clean sand
52	97.50	99.00	4- Lime Stone/Very shelly sand
53	100.00	76.00	4- Lime Stone/Very shelly sand
54	101.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
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WL2-B22\_18-PCP.txt

1	37.90	34.90	3.00	3.00	3-Clean Sand
2	34.90	33.90	1.00	3.00	2-Clay and Silty Sand
3	33.90	25.40	8.50	11.06	3-Clean Sand
4	25.40	22.90	2.50	9.00	2-Clay and Silty Sand
5	22.90	20.40	2.50	14.00	3-Clean Sand
6	20.40	9.15	11.25	11.78	2-Clay and Silty Sand
7	9.15	7.90	1.25	3.00	3-Clean Sand
8	7.90	-5.85	13.75	2.27	2-Clay and Silty Sand
9	-5.85	-7.10	1.25	3.00	3-Clean Sand
10	-7.10	-13.35	6.25	10.60	2-Clay and Silty Sand
11	-13.35	-14.60	1.25	2.00	3-Clean Sand
12	-14.60	-20.85	6.25	0.80	2-Clay and Silty Sand
13	-20.85	-22.10	1.25	0.00	3-Clean Sand
14	-22.10	-29.60	7.50	15.33	2-Clay and Silty Sand
15	-29.60	-32.10	2.50	18.00	1-Plastic Clay
16	-32.10	-33.35	1.25	10.00	2-Clay and Silty Sand
17	-33.35	-34.60	1.25	10.00	3-Clean Sand
18	-34.60	-38.35	3.75	91.00	2-Clay and Silty Sand
19	-38.35	-39.60	1.25	19.00	3-Clean Sand
20	-39.60	-40.85	1.25	19.00	2-Clay and Silty Sand
21	-40.85	-42.10	1.25	19.00	3-Clean Sand
22	-42.10	-47.10	5.00	74.50	2-Clay and Silty Sand
23	-47.10	-48.35	1.25	38.00	4-Limestone, Very
Shelly Sand					
24	-48.35	-49.60	1.25	38.00	3-Clean Sand
25	-49.60	-55.85	6.25	99.00	4-Limestone, Very
Shelly Sand					
26	-55.85	-57.10	1.25	27.00	3-Clean Sand
27	-57.10	-58.35	1.25	27.00	4-Limestone, Very
Shelly Sand					
28	-58.35	-59.60	1.25	27.00	3-Clean Sand
29	-59.60	-63.10	3.50	92.43	4-Limestone, Very
Shelly Sand					
30	-63.10	-63.10	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	27.90
18.00	12.00	25.90
18.00	14.00	23.90

WL2-B22\_18-PCP.txt

18.00	16.00	21.90
18.00	18.00	19.90
18.00	20.00	17.90
18.00	22.00	15.90
18.00	24.00	13.90
18.00	26.00	11.90
18.00	28.00	9.90
18.00	30.00	7.90
18.00	32.00	5.90
18.00	34.00	3.90
18.00	36.00	1.90
18.00	38.00	-0.10
18.00	40.00	-2.10
18.00	42.00	-4.10
18.00	44.00	-6.10
18.00	46.00	-8.10
18.00	48.00	-10.10
18.00	50.00	-12.10
18.00	52.00	-14.10
18.00	54.00	-16.10
18.00	56.00	-18.10
18.00	58.00	-20.10
18.00	60.00	-22.10
18.00	62.00	-24.10
18.00	64.00	-26.10
18.00	66.00	-28.10
18.00	68.00	-30.10
18.00	70.00	-32.10
18.00	72.00	-34.10
18.00	74.00	-36.10
18.00	76.00	-38.10
18.00	78.00	-40.10
18.00	80.00	-42.10
18.00	82.00	-44.10
18.00	84.00	-46.10
18.00	86.00	-48.10
18.00	88.00	-50.10
18.00	90.00	-52.10
18.00	92.00	-54.10
18.00	94.00	-56.10
18.00	96.00	-58.10
18.00	98.00	-60.10
18.00	100.00	-62.10

Driven Pile Capacity:

WL2-B22\_18-PCP.txt

Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	6.94	19.81	26.75	13.38	66.38
12.00	18.0	10.78	21.49	32.28	16.14	75.26
14.00	18.0	19.69	25.28	44.97	22.48	95.52
16.00	18.0	24.28	26.56	50.84	25.42	103.96
18.00	18.0	31.69	20.39	52.08	26.04	92.86
20.00	18.0	40.11	19.00	59.11	29.55	97.10
22.00	18.0	48.34	17.42	65.75	32.88	100.59
24.00	18.0	55.53	14.85	70.38	35.19	100.08
26.00	18.0	60.64	11.69	72.33	36.16	95.71
28.00	18.0	66.27	8.75	75.02	37.51	92.52
30.00	18.0	66.98	7.08	74.06	37.03	88.23
32.00	18.0	66.98	5.35	72.33	36.16	83.02
34.00	18.0	66.98	3.66	70.64	35.32	77.96
36.00	18.0	66.98	2.21	69.19	34.60	73.62
38.00	18.0	66.98	1.23	68.22	34.11	70.68
40.00	18.0	66.98	1.26	68.24	34.12	70.76
42.00	18.0	66.98	4.10	71.08	35.54	79.27
44.00	18.0	67.05	7.01	74.06	37.03	88.09
46.00	18.0	71.84	8.35	80.19	40.09	96.89
48.00	18.0	78.87	6.55	85.42	42.71	98.52
50.00	18.0	85.96	4.73	90.70	45.35	100.16
52.00	18.0	88.11	0.00	88.11	44.06	88.11
54.00	18.0	88.11	4.21	92.33	46.16	100.75
56.00	18.0	88.11	5.60	93.71	46.86	104.91
58.00	18.0	88.11	9.28	97.40	48.70	115.96
60.00	18.0	89.74	13.74	103.48	51.74	130.97
62.00	18.0	95.96	14.16	110.11	55.06	138.43
64.00	18.0	105.50	14.15	119.65	59.83	147.95
66.00	18.0	116.81	14.74	131.55	65.78	161.03
68.00	18.0	129.45	22.47	151.92	75.96	196.85
70.00	18.0	137.94	36.35	174.29	87.14	246.99
72.00	18.0	143.25	42.10	185.36	92.68	269.56
74.00	18.0	158.31	42.70	201.01	100.51	286.42
76.00	18.0	170.39	45.10	215.49	107.75	305.69
78.00	18.0	180.13	51.81	231.94	115.97	335.56
80.00	18.0	189.43	67.42	256.85	128.42	391.68
82.00	18.0	202.74	72.45	275.19	137.60	420.08
84.00	18.0	212.03	90.28	302.31	151.16	482.88
86.00	18.0	226.08	108.75	334.83	167.41	552.34
88.00	18.0	234.94	121.81	356.75	178.38	600.37
90.00	18.0	242.15	118.31	360.46	180.23	597.09

WL2-B22_18-PCP.txt						
92.00	18.0	249.35	114.90	364.25	182.13	594.06
94.00	18.0	256.69	100.49	357.19	178.59	558.18
96.00	18.0	***** Not enough soil data *****				
98.00	18.0	0.00	0.00	0.00	0.00	0.00
100.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B23\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 10-7-13, Boring Number: WL2-B23  
 Station number: 810+29 Offset: 48 RT

Ground Elevation: 38.300(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	6.00	3- Clean sand
2	2.00	6.00	3- Clean sand
3	4.00	8.00	3- Clean sand
4	6.00	8.00	3- Clean sand
5	7.00	4.00	2- Clay and silty sand
6	8.00	4.00	3- Clean sand
7	9.00	4.00	2- Clay and silty sand
8	10.00	8.00	3- Clean sand
9	12.50	9.00	3- Clean sand
10	15.00	13.00	3- Clean sand
11	17.50	16.00	3- Clean sand
12	20.00	9.00	2- Clay and silty sand
13	21.25	5.00	3- Clean sand
14	22.50	5.00	2- Clay and silty sand
15	25.00	4.00	2- Clay and silty sand
16	26.25	4.00	3- Clean sand
17	27.50	8.00	2- Clay and silty sand

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18	28.75	4.00	3- Clean sand
19	30.00	4.00	2- Clay and silty sand
20	32.50	2.00	2- Clay and silty sand
21	33.75	2.00	3- Clean sand
22	35.00	7.00	2- Clay and silty sand
23	36.25	2.00	3- Clean sand
24	37.50	2.00	2- Clay and silty sand
25	40.00	5.00	2- Clay and silty sand
26	41.25	5.00	3- Clean sand
27	42.50	15.00	2- Clay and silty sand
28	45.00	20.00	2- Clay and silty sand
29	47.50	8.00	2- Clay and silty sand
30	50.00	13.00	2- Clay and silty sand
31	51.25	5.00	3- Clean sand
32	52.50	5.00	2- Clay and silty sand
33	55.00	5.00	2- Clay and silty sand
34	57.50	7.00	2- Clay and silty sand
35	60.00	15.00	1- Plastic Clay
36	62.50	20.00	1- Plastic Clay
37	65.00	23.00	2- Clay and silty sand
38	67.50	29.00	1- Plastic Clay
39	70.00	99.00	2- Clay and silty sand
40	72.50	99.00	4- Lime Stone/Very shelly sand
41	73.75	12.00	3- Clean sand
42	75.00	12.00	4- Lime Stone/Very shelly sand
43	77.50	99.00	2- Clay and silty sand
44	78.75	35.00	3- Clean sand
45	80.00	35.00	2- Clay and silty sand
46	82.50	37.00	2- Clay and silty sand
47	85.00	99.00	4- Lime Stone/Very shelly sand
48	87.50	99.00	4- Lime Stone/Very shelly sand
49	90.00	99.00	2- Clay and silty sand
50	91.25	33.00	3- Clean sand
51	92.50	33.00	2- Clay and silty sand
52	93.75	33.00	3- Clean sand
53	95.00	99.00	2- Clay and silty sand
54	97.50	99.00	2- Clay and silty sand
55	100.00	65.00	2- Clay and silty sand
56	101.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
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1	38.30	31.30	7.00	6.86	3-Clean Sand
2	31.30	30.30	1.00	4.00	2-Clay and Silty Sand
3	30.30	29.30	1.00	4.00	3-Clean Sand
4	29.30	28.30	1.00	4.00	2-Clay and Silty Sand
5	28.30	18.30	10.00	11.50	3-Clean Sand
6	18.30	17.05	1.25	9.00	2-Clay and Silty Sand
7	17.05	15.80	1.25	5.00	3-Clean Sand
8	15.80	12.05	3.75	4.67	2-Clay and Silty Sand
9	12.05	10.80	1.25	4.00	3-Clean Sand
10	10.80	9.55	1.25	8.00	2-Clay and Silty Sand
11	9.55	8.30	1.25	4.00	3-Clean Sand
12	8.30	4.55	3.75	3.33	2-Clay and Silty Sand
13	4.55	3.30	1.25	2.00	3-Clean Sand
14	3.30	2.05	1.25	7.00	2-Clay and Silty Sand
15	2.05	0.80	1.25	2.00	3-Clean Sand
16	0.80	-2.95	3.75	3.00	2-Clay and Silty Sand
17	-2.95	-4.20	1.25	5.00	3-Clean Sand
18	-4.20	-12.95	8.75	14.14	2-Clay and Silty Sand
19	-12.95	-14.20	1.25	5.00	3-Clean Sand
20	-14.20	-21.70	7.50	5.67	2-Clay and Silty Sand
21	-21.70	-26.70	5.00	17.50	1-Plastic Clay
22	-26.70	-29.20	2.50	23.00	2-Clay and Silty Sand
23	-29.20	-31.70	2.50	29.00	1-Plastic Clay
24	-31.70	-34.20	2.50	99.00	2-Clay and Silty Sand
25	-34.20	-35.45	1.25	99.00	4-Limestone, Very
Shelly Sand					
26	-35.45	-36.70	1.25	12.00	3-Clean Sand
27	-36.70	-39.20	2.50	12.00	4-Limestone, Very
Shelly Sand					
28	-39.20	-40.45	1.25	99.00	2-Clay and Silty Sand
29	-40.45	-41.70	1.25	35.00	3-Clean Sand
30	-41.70	-46.70	5.00	36.00	2-Clay and Silty Sand
31	-46.70	-51.70	5.00	99.00	4-Limestone, Very
Shelly Sand					
32	-51.70	-52.95	1.25	99.00	2-Clay and Silty Sand
33	-52.95	-54.20	1.25	33.00	3-Clean Sand
34	-54.20	-55.45	1.25	33.00	2-Clay and Silty Sand
35	-55.45	-56.70	1.25	33.00	3-Clean Sand
36	-56.70	-62.70	6.00	93.33	2-Clay and Silty Sand
37	-62.70	-62.70	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	28.30
18.00	12.00	26.30
18.00	14.00	24.30
18.00	16.00	22.30
18.00	18.00	20.30
18.00	20.00	18.30
18.00	22.00	16.30
18.00	24.00	14.30
18.00	26.00	12.30
18.00	28.00	10.30
18.00	30.00	8.30
18.00	32.00	6.30
18.00	34.00	4.30
18.00	36.00	2.30
18.00	38.00	0.30
18.00	40.00	-1.70
18.00	42.00	-3.70
18.00	44.00	-5.70
18.00	46.00	-7.70
18.00	48.00	-9.70
18.00	50.00	-11.70
18.00	52.00	-13.70
18.00	54.00	-15.70
18.00	56.00	-17.70
18.00	58.00	-19.70
18.00	60.00	-21.70
18.00	62.00	-23.70
18.00	64.00	-25.70
18.00	66.00	-27.70
18.00	68.00	-29.70
18.00	70.00	-31.70
18.00	72.00	-33.70
18.00	74.00	-35.70
18.00	76.00	-37.70
18.00	78.00	-39.70
18.00	80.00	-41.70
18.00	82.00	-43.70
18.00	84.00	-45.70
18.00	86.00	-47.70
18.00	88.00	-49.70
18.00	90.00	-51.70
18.00	92.00	-53.70
18.00	94.00	-55.70

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18.00	96.00	-57.70
18.00	98.00	-59.70
18.00	100.00	-61.70

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	7.07	22.19	29.26	14.63	73.63
12.00	18.0	9.09	22.83	31.91	15.96	77.56
14.00	18.0	11.21	24.18	35.39	17.70	83.76
16.00	18.0	14.86	23.92	38.78	19.39	86.61
18.00	18.0	20.25	21.07	41.32	20.66	83.47
20.00	18.0	25.52	7.79	33.32	16.66	48.90
22.00	18.0	28.20	4.79	32.98	16.49	42.55
24.00	18.0	30.86	3.81	34.67	17.34	42.30
26.00	18.0	31.37	2.75	34.11	17.06	39.61
28.00	18.0	34.03	8.45	42.49	21.24	59.40
30.00	18.0	34.62	5.43	40.04	20.02	50.89
32.00	18.0	34.62	3.57	38.18	19.09	45.31
34.00	18.0	34.68	2.85	37.53	18.76	43.24
36.00	18.0	37.21	2.94	40.16	20.08	46.04
38.00	18.0	37.57	6.22	43.79	21.90	56.24
40.00	18.0	38.83	8.36	47.18	23.59	63.90
42.00	18.0	42.42	13.44	55.86	27.93	82.74
44.00	18.0	51.42	13.97	65.39	32.69	93.33
46.00	18.0	61.27	14.26	75.53	37.76	104.05
48.00	18.0	68.17	14.09	82.26	41.13	110.45
50.00	18.0	75.04	13.75	88.79	44.40	116.29
52.00	18.0	78.71	8.73	87.44	43.72	104.91
54.00	18.0	82.11	8.25	90.36	45.18	106.86
56.00	18.0	85.34	8.60	93.94	46.97	111.15
58.00	18.0	89.11	9.83	98.94	49.47	118.60
60.00	18.0	98.02	14.73	112.74	56.37	142.20
62.00	18.0	108.11	16.40	124.51	62.25	157.30
64.00	18.0	120.01	20.76	140.77	70.38	182.29
66.00	18.0	132.92	26.45	159.37	79.69	212.28
68.00	18.0	149.07	51.21	200.28	100.14	302.71
70.00	18.0	165.17	57.12	222.29	111.14	336.53
72.00	18.0	177.47	55.40	232.87	116.44	343.66
74.00	18.0	183.20	50.04	233.24	116.62	333.32

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76.00	18.0	186.65	63.52	250.17	125.09	377.22
78.00	18.0	198.94	66.03	264.97	132.48	397.02
80.00	18.0	211.17	80.49	291.67	145.83	452.65
82.00	18.0	223.80	87.47	311.26	155.63	486.19
84.00	18.0	234.88	99.86	334.74	167.37	534.47
86.00	18.0	247.99	100.86	348.85	174.43	550.58
88.00	18.0	255.40	93.54	348.94	174.47	536.02
90.00	18.0	267.71	79.03	346.74	173.37	504.79
92.00	18.0	279.49	76.03	355.53	177.76	507.59
94.00	18.0	291.86	91.61	383.47	191.73	566.68
96.00	18.0	*****	Not enough soil data	*****		
98.00	18.0	0.00	0.00	0.00	0.00	0.00
100.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B24\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 9-5-13, Boring Number: WL2-B24  
 Station number: 811+47 Offset: 134 LT

Ground Elevation: 35.500(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	4.00	3- Clean sand
2	2.00	4.00	3- Clean sand
3	4.00	23.00	2- Clay and silty sand
4	6.00	42.00	2- Clay and silty sand
5	7.00	7.00	3- Clean sand
6	8.00	7.00	2- Clay and silty sand
7	10.00	13.00	2- Clay and silty sand
8	12.50	9.00	2- Clay and silty sand
9	15.00	22.00	3- Clean sand
10	16.25	3.00	2- Clay and silty sand
11	17.50	3.00	3- Clean sand
12	20.00	4.00	5- Cavity layer
13	22.50	28.00	2- Clay and silty sand
14	23.75	8.00	3- Clean sand
15	25.00	8.00	2- Clay and silty sand
16	27.50	12.00	2- Clay and silty sand
17	28.75	2.00	3- Clean sand

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18	30.00	2.00	2- Clay and silty sand
19	32.50	0.00	2- Clay and silty sand
20	35.00	0.00	2- Clay and silty sand
21	37.50	0.00	2- Clay and silty sand
22	38.75	0.00	3- Clean sand
23	40.00	6.00	2- Clay and silty sand
24	42.50	5.00	2- Clay and silty sand
25	43.75	4.00	3- Clean sand
26	45.00	4.00	2- Clay and silty sand
27	47.50	3.00	2- Clay and silty sand
28	50.00	0.00	2- Clay and silty sand
29	51.25	0.00	3- Clean sand
30	52.50	11.00	2- Clay and silty sand
31	55.00	6.00	2- Clay and silty sand
32	57.50	6.00	2- Clay and silty sand
33	60.00	9.00	2- Clay and silty sand
34	61.25	9.00	3- Clean sand
35	62.50	26.00	2- Clay and silty sand
36	65.00	33.00	1- Plastic Clay
37	67.50	18.00	1- Plastic Clay
38	70.00	99.00	4- Lime Stone/Very shelly sand
39	72.50	99.00	4- Lime Stone/Very shelly sand
40	75.00	99.00	4- Lime Stone/Very shelly sand
41	77.50	99.00	4- Lime Stone/Very shelly sand
42	80.00	99.00	2- Clay and silty sand
43	82.50	99.00	2- Clay and silty sand
44	85.00	99.00	4- Lime Stone/Very shelly sand
45	87.50	99.00	4- Lime Stone/Very shelly sand
46	88.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	35.50	31.50	4.00	4.00	3-Clean Sand
2	31.50	28.50	3.00	29.33	2-Clay and Silty Sand
3	28.50	27.50	1.00	7.00	3-Clean Sand
4	27.50	20.50	7.00	9.86	2-Clay and Silty Sand
5	20.50	19.25	1.25	22.00	3-Clean Sand
6	19.25	18.00	1.25	3.00	2-Clay and Silty Sand
7	18.00	15.50	2.50	3.00	3-Clean Sand
8	15.50	13.00	2.50	4.00	5-Void

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9	13.00	11.75	1.25	28.00	2-Clay and Silty Sand
10	11.75	10.50	1.25	8.00	3-Clean Sand
11	10.50	6.75	3.75	9.33	2-Clay and Silty Sand
12	6.75	5.50	1.25	2.00	3-Clean Sand
13	5.50	-3.25	8.75	0.57	2-Clay and Silty Sand
14	-3.25	-4.50	1.25	0.00	3-Clean Sand
15	-4.50	-8.25	3.75	5.67	2-Clay and Silty Sand
16	-8.25	-9.50	1.25	4.00	3-Clean Sand
17	-9.50	-15.75	6.25	2.80	2-Clay and Silty Sand
18	-15.75	-17.00	1.25	0.00	3-Clean Sand
19	-17.00	-25.75	8.75	7.86	2-Clay and Silty Sand
20	-25.75	-27.00	1.25	9.00	3-Clean Sand
21	-27.00	-29.50	2.50	26.00	2-Clay and Silty Sand
22	-29.50	-34.50	5.00	25.50	1-Plastic Clay
23	-34.50	-44.50	10.00	99.00	4-Limestone, Very
Shelly Sand					
24	-44.50	-49.50	5.00	99.00	2-Clay and Silty Sand
25	-49.50	-52.50	3.00	99.00	4-Limestone, Very
Shelly Sand					
26	-52.50	-52.50	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	25.50
18.00	12.00	23.50
18.00	14.00	21.50
18.00	16.00	19.50
18.00	18.00	17.50
18.00	20.00	15.50
18.00	22.00	13.50
18.00	24.00	11.50
18.00	26.00	9.50
18.00	28.00	7.50
18.00	30.00	5.50
18.00	32.00	3.50
18.00	34.00	1.50
18.00	36.00	-0.50
18.00	38.00	-2.50
18.00	40.00	-4.50
18.00	42.00	-6.50

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18.00	44.00	-8.50
18.00	46.00	-10.50
18.00	48.00	-12.50
18.00	50.00	-14.50
18.00	52.00	-16.50
18.00	54.00	-18.50
18.00	56.00	-20.50
18.00	58.00	-22.50
18.00	60.00	-24.50
18.00	62.00	-26.50
18.00	64.00	-28.50
18.00	66.00	-30.50
18.00	68.00	-32.50
18.00	70.00	-34.50
18.00	72.00	-36.50
18.00	74.00	-38.50
18.00	76.00	-40.50
18.00	78.00	-42.50
18.00	80.00	-44.50
18.00	82.00	-46.50
18.00	84.00	-48.50
18.00	86.00	-50.50
18.00	88.00	-52.50
18.00	90.00	-54.50

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	31.28	21.87	53.15	26.58	96.89
12.00	18.0	37.87	22.97	60.84	30.42	106.78
14.00	18.0	44.65	21.74	66.39	33.20	109.87
16.00	18.0	50.35	16.50	66.85	33.42	99.85
18.00	18.0	50.42	18.31	68.73	34.37	105.34
20.00	18.0	50.42	-17.11	33.31	16.66	-0.91
22.00	18.0	55.90	0.00	55.90	27.95	55.90
24.00	18.0	64.21	13.58	77.78	38.89	104.93
26.00	18.0	68.93	9.33	78.26	39.13	96.91
28.00	18.0	75.66	7.77	83.43	41.72	98.98
30.00	18.0	76.49	6.82	83.31	41.66	96.95
32.00	18.0	76.49	6.82	83.31	41.66	96.95



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34.00	18.0	76.49	5.52	82.01	41.00	93.04
36.00	18.0	76.49	4.26	80.75	40.38	89.27
38.00	18.0	76.49	4.32	80.81	40.41	89.46
40.00	18.0	77.74	2.79	80.53	40.27	86.11
42.00	18.0	81.49	1.73	83.22	41.61	86.68
44.00	18.0	83.40	0.00	83.40	41.70	83.40
46.00	18.0	83.40	1.28	84.68	42.34	87.23
48.00	18.0	83.40	2.31	85.71	42.85	90.33
50.00	18.0	83.40	4.78	88.17	44.09	97.73
52.00	18.0	84.14	6.52	90.67	45.33	103.71
54.00	18.0	90.06	6.53	96.59	48.29	109.64
56.00	18.0	93.02	7.69	100.71	50.36	116.09
58.00	18.0	94.74	13.34	108.08	54.04	134.76
60.00	18.0	99.42	17.79	117.21	58.60	152.78
62.00	18.0	108.19	18.39	126.58	63.29	163.35
64.00	18.0	118.69	25.81	144.51	72.25	196.13
66.00	18.0	135.89	42.07	177.96	88.98	262.10
68.00	18.0	144.98	79.44	224.43	112.21	383.31
70.00	18.0	159.47	98.63	258.10	129.05	455.36
72.00	18.0	165.95	101.41	267.36	133.68	470.19
74.00	18.0	172.08	106.98	279.06	139.53	493.02
76.00	18.0	179.36	107.47	286.83	143.42	501.77
78.00	18.0	187.14	106.60	293.74	146.87	506.94
80.00	18.0	200.79	97.71	298.50	149.25	493.93
82.00	18.0	215.95	99.14	315.09	157.54	513.38
84.00	18.0	*****	Not enough soil data	*****		
86.00	18.0	0.00	0.00	0.00	0.00	0.00
88.00	18.0	0.00	0.00	0.00	0.00	0.00
90.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 X THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 X THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B25\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: Ejl  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 9-4-13, Boring Number: WL2-B25  
 Station number: 811+43 Offset: 21 LT

Ground Elevation: 38.000(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	4.00	3- Clean sand
2	2.00	4.00	3- Clean sand
3	3.00	4.00	2- Clay and silty sand
4	4.00	6.00	3- Clean sand
5	6.00	7.00	3- Clean sand
6	8.00	17.00	2- Clay and silty sand
7	9.00	17.00	3- Clean sand
8	10.00	34.00	2- Clay and silty sand
9	11.25	12.00	3- Clean sand
10	12.50	12.00	2- Clay and silty sand
11	15.00	17.00	3- Clean sand
12	17.50	10.00	3- Clean sand
13	20.00	15.00	2- Clay and silty sand
14	22.50	11.00	2- Clay and silty sand
15	25.00	5.00	2- Clay and silty sand
16	26.25	2.00	3- Clean sand
17	27.50	2.00	2- Clay and silty sand

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18	30.00	3.00	2- Clay and silty sand
19	32.50	2.00	2- Clay and silty sand
20	35.00	3.00	2- Clay and silty sand
21	37.50	2.00	2- Clay and silty sand
22	40.00	4.00	2- Clay and silty sand
23	42.50	2.00	2- Clay and silty sand
24	43.75	2.00	3- Clean sand
25	45.00	13.00	2- Clay and silty sand
26	47.50	5.00	2- Clay and silty sand
27	50.00	11.00	2- Clay and silty sand
28	52.50	2.00	1- Plastic Clay
29	55.00	7.00	2- Clay and silty sand
30	57.50	5.00	2- Clay and silty sand
31	60.00	9.00	2- Clay and silty sand
32	62.50	11.00	2- Clay and silty sand
33	65.00	19.00	2- Clay and silty sand
34	67.50	32.00	4- Lime Stone/Very shelly sand
35	70.00	51.00	2- Clay and silty sand
36	72.50	99.00	4- Lime Stone/Very shelly sand
37	75.00	99.00	4- Lime Stone/Very shelly sand
38	77.50	99.00	2- Clay and silty sand
39	80.00	99.00	4- Lime Stone/Very shelly sand
40	82.50	99.00	2- Clay and silty sand
41	85.00	99.00	2- Clay and silty sand
42	87.50	99.00	4- Lime Stone/Very shelly sand
43	90.00	99.00	4- Lime Stone/Very shelly sand
44	91.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	38.00	35.00	3.00	4.00	3-Clean Sand
2	35.00	34.00	1.00	4.00	2-Clay and Silty Sand
3	34.00	30.00	4.00	6.50	3-Clean Sand
4	30.00	29.00	1.00	17.00	2-Clay and Silty Sand
5	29.00	28.00	1.00	17.00	3-Clean Sand
6	28.00	26.75	1.25	34.00	2-Clay and Silty Sand
7	26.75	25.50	1.25	12.00	3-Clean Sand
8	25.50	23.00	2.50	12.00	2-Clay and Silty Sand
9	23.00	18.00	5.00	13.50	3-Clean Sand
10	18.00	11.75	6.25	11.40	2-Clay and Silty Sand

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11	11.75	10.50	1.25	2.00	3-Clean Sand
12	10.50	-5.75	16.25	2.62	2-Clay and Silty Sand
13	-5.75	-7.00	1.25	2.00	3-Clean Sand
14	-7.00	-14.50	7.50	9.67	2-Clay and Silty Sand
15	-14.50	-17.00	2.50	2.00	1-Plastic Clay
16	-17.00	-29.50	12.50	10.20	2-Clay and Silty Sand
17	-29.50	-32.00	2.50	32.00	4-Limestone, Very
Shelly Sand					
18	-32.00	-34.50	2.50	51.00	2-Clay and Silty Sand
19	-34.50	-39.50	5.00	99.00	4-Limestone, Very
Shelly Sand					
20	-39.50	-42.00	2.50	99.00	2-Clay and Silty Sand
21	-42.00	-44.50	2.50	99.00	4-Limestone, Very
Shelly Sand					
22	-44.50	-49.50	5.00	99.00	2-Clay and Silty Sand
23	-49.50	-53.00	3.50	99.00	4-Limestone, Very
Shelly Sand					
24	-53.00	-53.00	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	28.00
18.00	12.00	26.00
18.00	14.00	24.00
18.00	16.00	22.00
18.00	18.00	20.00
18.00	20.00	18.00
18.00	22.00	16.00
18.00	24.00	14.00
18.00	26.00	12.00
18.00	28.00	10.00
18.00	30.00	8.00
18.00	32.00	6.00
18.00	34.00	4.00
18.00	36.00	2.00
18.00	38.00	0.00
18.00	40.00	-2.00
18.00	42.00	-4.00
18.00	44.00	-6.00
18.00	46.00	-8.00

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18.00	48.00	-10.00
18.00	50.00	-12.00
18.00	52.00	-14.00
18.00	54.00	-16.00
18.00	56.00	-18.00
18.00	58.00	-20.00
18.00	60.00	-22.00
18.00	62.00	-24.00
18.00	64.00	-26.00
18.00	66.00	-28.00
18.00	68.00	-30.00
18.00	70.00	-32.00
18.00	72.00	-34.00
18.00	74.00	-36.00
18.00	76.00	-38.00
18.00	78.00	-40.00
18.00	80.00	-42.00
18.00	82.00	-44.00
18.00	84.00	-46.00
18.00	86.00	-48.00
18.00	88.00	-50.00
18.00	90.00	-52.00

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	16.76	26.77	43.53	21.76	97.06
12.00	18.0	23.97	28.45	52.42	26.21	109.32
14.00	18.0	30.63	30.05	60.68	30.34	120.78
16.00	18.0	35.46	32.91	68.37	34.19	134.19
18.00	18.0	39.14	29.66	68.80	34.40	128.11
20.00	18.0	45.61	15.20	60.81	30.41	91.21
22.00	18.0	53.71	14.05	67.76	33.88	95.87
24.00	18.0	59.85	9.93	69.78	34.89	89.65
26.00	18.0	62.90	6.90	69.80	34.90	83.60
28.00	18.0	62.94	8.41	71.35	35.68	88.18
30.00	18.0	62.94	5.56	68.50	34.25	79.61
32.00	18.0	62.94	3.45	66.39	33.19	73.29
34.00	18.0	62.94	1.79	64.73	32.36	68.30
36.00	18.0	62.94	0.58	63.52	31.76	64.68

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38.00	18.0	62.94	0.01	62.95	31.47	62.96
40.00	18.0	62.94	1.60	64.54	32.27	67.73
42.00	18.0	62.94	4.15	67.09	33.54	75.39
44.00	18.0	63.04	5.79	68.83	34.41	80.42
46.00	18.0	68.84	6.93	75.77	37.88	89.62
48.00	18.0	73.41	6.57	79.98	39.99	93.12
50.00	18.0	78.88	6.57	85.46	42.73	98.60
52.00	18.0	83.01	7.22	90.23	45.12	104.67
54.00	18.0	84.22	6.07	90.29	45.15	102.43
56.00	18.0	88.08	9.60	97.68	48.84	116.88
58.00	18.0	91.21	10.41	101.62	50.81	122.44
60.00	18.0	94.71	13.33	108.04	54.02	134.69
62.00	18.0	99.58	24.37	123.95	61.97	172.68
64.00	18.0	106.83	39.78	146.61	73.31	226.17
66.00	18.0	115.99	52.57	168.56	84.28	273.71
68.00	18.0	126.65	66.04	192.69	96.34	324.76
70.00	18.0	138.08	91.35	229.43	114.72	412.14
72.00	18.0	149.39	94.62	244.01	122.00	433.25
74.00	18.0	157.72	100.66	258.38	129.19	459.69
76.00	18.0	164.80	104.58	269.38	134.69	478.54
78.00	18.0	179.43	97.50	276.93	138.46	471.93
80.00	18.0	190.03	107.43	297.46	148.73	512.32
82.00	18.0	200.50	107.79	308.29	154.14	523.86
84.00	18.0	216.13	97.71	313.85	156.92	509.28
86.00	18.0	*****	Not enough soil data	*****		
88.00	18.0	0.00	0.00	0.00	0.00	0.00
90.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B26\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJL  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 9-16-13, Boring Number: WL2-B26  
 Station number: 812+55 Offset: 53 LT

Ground Elevation: 36.900(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	4.00	3- Clean sand
2	2.00	4.00	3- Clean sand
3	4.00	11.00	2- Clay and silty sand
4	6.00	16.00	2- Clay and silty sand
5	8.00	16.00	2- Clay and silty sand
6	10.00	21.00	2- Clay and silty sand
7	12.50	14.00	2- Clay and silty sand
8	15.00	23.00	2- Clay and silty sand
9	16.25	3.00	3- Clean sand
10	17.50	3.00	2- Clay and silty sand
11	18.75	3.00	3- Clean sand
12	20.00	23.00	2- Clay and silty sand
13	22.50	14.00	2- Clay and silty sand
14	25.00	8.00	2- Clay and silty sand
15	27.50	3.00	3- Clean sand
16	30.00	3.00	2- Clay and silty sand
17	32.50	2.00	2- Clay and silty sand

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18	35.00	2.00	2- Clay and silty sand
19	37.50	3.00	2- Clay and silty sand
20	40.00	4.00	2- Clay and silty sand
21	42.50	5.00	2- Clay and silty sand
22	43.75	5.00	3- Clean sand
23	45.00	8.00	2- Clay and silty sand
24	47.50	12.00	2- Clay and silty sand
25	50.00	6.00	2- Clay and silty sand
26	51.25	3.00	3- Clean sand
27	52.50	3.00	2- Clay and silty sand
28	55.00	4.00	1- Plastic Clay
29	57.50	0.00	1- Plastic Clay
30	58.75	0.00	2- Clay and silty sand
31	60.00	8.00	1- Plastic Clay
32	62.50	12.00	2- Clay and silty sand
33	65.00	18.00	2- Clay and silty sand
34	67.50	24.00	2- Clay and silty sand
35	68.75	24.00	3- Clean sand
36	70.00	41.00	2- Clay and silty sand
37	72.50	99.00	2- Clay and silty sand
38	75.00	99.00	2- Clay and silty sand
39	77.50	99.00	4- Lime Stone/Very shelly sand
40	80.00	99.00	4- Lime Stone/Very shelly sand
41	82.50	99.00	4- Lime Stone/Very shelly sand
42	85.00	99.00	4- Lime Stone/Very shelly sand
43	87.50	99.00	4- Lime Stone/Very shelly sand
44	90.00	99.00	4- Lime Stone/Very shelly sand
45	92.50	99.00	4- Lime Stone/Very shelly sand
46	93.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	36.90	32.90	4.00	4.00	3-Clean Sand
2	32.90	20.65	12.25	16.51	2-Clay and Silty Sand
3	20.65	19.40	1.25	3.00	3-Clean Sand
4	19.40	18.15	1.25	3.00	2-Clay and Silty Sand
5	18.15	16.90	1.25	3.00	3-Clean Sand
6	16.90	9.40	7.50	15.00	2-Clay and Silty Sand
7	9.40	6.90	2.50	3.00	3-Clean Sand
8	6.90	-6.85	13.75	3.00	2-Clay and Silty Sand



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9	-6.85	-8.10	1.25	5.00	3-Clean Sand
10	-8.10	-14.35	6.25	9.20	2-Clay and Silty Sand
11	-14.35	-15.60	1.25	3.00	3-Clean Sand
12	-15.60	-18.10	2.50	3.00	2-Clay and Silty Sand
13	-18.10	-21.85	3.75	2.67	1-Plastic Clay
14	-21.85	-23.10	1.25	0.00	2-Clay and Silty Sand
15	-23.10	-25.60	2.50	8.00	1-Plastic Clay
16	-25.60	-31.85	6.25	16.80	2-Clay and Silty Sand
17	-31.85	-33.10	1.25	24.00	3-Clean Sand
18	-33.10	-40.60	7.50	79.67	2-Clay and Silty Sand
19	-40.60	-56.10	15.50	99.00	4-Limestone, Very
Shelly Sand					
20	-56.10	-56.10	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	26.90
18.00	12.00	24.90
18.00	14.00	22.90
18.00	16.00	20.90
18.00	18.00	18.90
18.00	20.00	16.90
18.00	22.00	14.90
18.00	24.00	12.90
18.00	26.00	10.90
18.00	28.00	8.90
18.00	30.00	6.90
18.00	32.00	4.90
18.00	34.00	2.90
18.00	36.00	0.90
18.00	38.00	-1.10
18.00	40.00	-3.10
18.00	42.00	-5.10
18.00	44.00	-7.10
18.00	46.00	-9.10
18.00	48.00	-11.10
18.00	50.00	-13.10
18.00	52.00	-15.10
18.00	54.00	-17.10
18.00	56.00	-19.10

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18.00	58.00	-21.10
18.00	60.00	-23.10
18.00	62.00	-25.10
18.00	64.00	-27.10
18.00	66.00	-29.10
18.00	68.00	-31.10
18.00	70.00	-33.10
18.00	72.00	-35.10
18.00	74.00	-37.10
18.00	76.00	-39.10
18.00	78.00	-41.10
18.00	80.00	-43.10
18.00	82.00	-45.10
18.00	84.00	-47.10
18.00	86.00	-49.10
18.00	88.00	-51.10
18.00	90.00	-53.10
18.00	92.00	-55.10
18.00	94.00	-57.10

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	26.18	21.45	47.63	23.82	90.53
12.00	18.0	36.29	18.52	54.81	27.41	91.86
14.00	18.0	45.65	16.27	61.92	30.96	94.45
16.00	18.0	55.02	18.18	73.21	36.60	109.57
18.00	18.0	60.43	20.34	80.77	40.38	121.45
20.00	18.0	64.23	21.44	85.67	42.84	128.56
22.00	18.0	74.90	20.79	95.69	47.85	137.27
24.00	18.0	82.69	14.73	97.42	48.71	126.87
26.00	18.0	87.69	10.45	98.14	49.07	119.04
28.00	18.0	88.86	0.00	88.86	44.43	88.86
30.00	18.0	88.86	6.08	94.95	47.47	107.11
32.00	18.0	88.86	5.19	94.06	47.03	104.44
34.00	18.0	88.86	2.79	91.65	45.82	97.22
36.00	18.0	88.86	1.41	90.27	45.14	93.10
38.00	18.0	88.86	1.80	90.66	45.33	94.26
40.00	18.0	88.86	4.10	92.96	46.48	101.16
42.00	18.0	90.21	6.61	96.83	48.41	110.05

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44.00	18.0	92.69	8.28	100.96	50.48	117.52	
46.00	18.0	97.35	12.56	109.91	54.96	135.04	
48.00	18.0	104.18	10.53	114.70	57.35	135.76	
50.00	18.0	109.54	7.60	117.14	58.57	132.34	
52.00	18.0	110.79	0.00	110.79	55.39	110.79	
54.00	18.0	110.79	4.65	115.44	57.72	124.73	
56.00	18.0	110.79	4.82	115.61	57.81	125.26	
58.00	18.0	110.79	7.06	117.85	58.92	131.97	
60.00	18.0	112.65	10.12	122.77	61.38	143.00	
62.00	18.0	117.99	12.66	130.65	65.32	155.96	
64.00	18.0	125.48	16.86	142.34	71.17	176.06	
66.00	18.0	131.36	24.63	155.98	77.99	205.23	
68.00	18.0	139.48	38.85	178.33	89.17	256.03	
70.00	18.0	159.32	47.95	207.28	103.64	303.19	
72.00	18.0	171.91	53.00	224.91	112.46	330.92	
74.00	18.0	181.59	72.86	254.44	127.22	400.16	
76.00	18.0	192.96	105.86	298.82	149.41	510.53	
78.00	18.0	214.70	116.69	331.39	165.69	564.76	
80.00	18.0	221.15	120.23	341.37	170.69	581.83	
82.00	18.0	227.25	127.26	354.51	177.26	609.03	
84.00	18.0	233.32	137.84	371.16	185.58	646.85	
86.00	18.0	239.65	151.51	391.15	195.58	694.16	
88.00	18.0	***** Not enough soil data *****					
90.00	18.0	0.00	0.00	0.00	0.00	0.00	
92.00	18.0	0.00	0.00	0.00	0.00	0.00	
94.00	18.0	0.00	0.00	0.00	0.00	0.00	

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B27\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 10-8-13, Boring Number: WL2-B27  
 Station number: 812+45 Offset: 47 RT

Ground Elevation: 37.900(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	6.00	3- Clean sand
2	6.00	6.00	3- Clean sand
3	8.00	17.00	2- Clay and silty sand
4	10.00	35.00	2- Clay and silty sand
5	12.50	21.00	3- Clean sand
6	15.00	12.00	3- Clean sand
7	17.50	12.00	2- Clay and silty sand
8	20.00	10.00	2- Clay and silty sand
9	22.50	7.00	2- Clay and silty sand
10	23.75	3.00	3- Clean sand
11	25.00	3.00	2- Clay and silty sand
12	27.50	2.00	2- Clay and silty sand
13	30.00	1.00	2- Clay and silty sand
14	32.50	0.00	2- Clay and silty sand
15	35.00	0.00	2- Clay and silty sand
16	37.50	1.00	2- Clay and silty sand
17	38.75	1.00	3- Clean sand

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18	40.00	5.00	2- Clay and silty sand
19	41.25	5.00	3- Clean sand
20	42.50	30.00	2- Clay and silty sand
21	45.00	37.00	2- Clay and silty sand
22	46.25	15.00	3- Clean sand
23	47.50	15.00	2- Clay and silty sand
24	50.00	15.00	2- Clay and silty sand
25	52.50	8.00	2- Clay and silty sand
26	55.00	16.00	2- Clay and silty sand
27	56.25	2.00	3- Clean sand
28	57.50	2.00	2- Clay and silty sand
29	60.00	1.00	1- Plastic Clay
30	62.50	1.00	1- Plastic Clay
31	65.00	3.00	1- Plastic Clay
32	67.50	5.00	1- Plastic Clay
33	68.75	5.00	2- Clay and silty sand
34	70.00	17.00	1- Plastic Clay
35	72.50	25.00	1- Plastic Clay
36	75.00	20.00	2- Clay and silty sand
37	77.50	30.00	2- Clay and silty sand
38	78.75	30.00	3- Clean sand
39	80.00	99.00	2- Clay and silty sand
40	82.50	99.00	4- Lime Stone/Very shelly sand
41	85.00	99.00	4- Lime Stone/Very shelly sand
42	87.50	99.00	2- Clay and silty sand
43	88.75	35.00	3- Clean sand
44	90.00	35.00	2- Clay and silty sand
45	92.50	57.00	2- Clay and silty sand
46	95.00	99.00	4- Lime Stone/Very shelly sand
47	97.50	99.00	4- Lime Stone/Very shelly sand
48	100.00	30.00	2- Clay and silty sand
49	101.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	37.90	29.90	8.00	6.00	3-Clean Sand
2	29.90	25.40	4.50	27.00	2-Clay and Silty Sand
3	25.40	20.40	5.00	16.50	3-Clean Sand
4	20.40	14.15	6.25	10.20	2-Clay and Silty Sand
5	14.15	12.90	1.25	3.00	3-Clean Sand

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6	12.90	-0.85	13.75	1.18	2-Clay and Silty Sand
7	-0.85	-2.10	1.25	1.00	3-Clean Sand
8	-2.10	-3.35	1.25	5.00	2-Clay and Silty Sand
9	-3.35	-4.60	1.25	5.00	3-Clean Sand
10	-4.60	-8.35	3.75	32.33	2-Clay and Silty Sand
11	-8.35	-9.60	1.25	15.00	3-Clean Sand
12	-9.60	-18.35	8.75	13.14	2-Clay and Silty Sand
13	-18.35	-19.60	1.25	2.00	3-Clean Sand
14	-19.60	-22.10	2.50	2.00	2-Clay and Silty Sand
15	-22.10	-30.85	8.75	2.14	1-Plastic Clay
16	-30.85	-32.10	1.25	5.00	2-Clay and Silty Sand
17	-32.10	-37.10	5.00	21.00	1-Plastic Clay
18	-37.10	-40.85	3.75	23.33	2-Clay and Silty Sand
19	-40.85	-42.10	1.25	30.00	3-Clean Sand
20	-42.10	-44.60	2.50	99.00	2-Clay and Silty Sand
21	-44.60	-49.60	5.00	99.00	4-Limestone, Very
Shelly Sand					
22	-49.60	-50.85	1.25	99.00	2-Clay and Silty Sand
23	-50.85	-52.10	1.25	35.00	3-Clean Sand
24	-52.10	-57.10	5.00	46.00	2-Clay and Silty Sand
25	-57.10	-62.10	5.00	99.00	4-Limestone, Very
Shelly Sand					
26	-62.10	-63.10	1.00	30.00	2-Clay and Silty Sand
27	-63.10	-63.10	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	27.90
18.00	12.00	25.90
18.00	14.00	23.90
18.00	16.00	21.90
18.00	18.00	19.90
18.00	20.00	17.90
18.00	22.00	15.90
18.00	24.00	13.90
18.00	26.00	11.90
18.00	28.00	9.90
18.00	30.00	7.90
18.00	32.00	5.90
18.00	34.00	3.90

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18.00	36.00	1.90
18.00	38.00	-0.10
18.00	40.00	-2.10
18.00	42.00	-4.10
18.00	44.00	-6.10
18.00	46.00	-8.10
18.00	48.00	-10.10
18.00	50.00	-12.10
18.00	52.00	-14.10
18.00	54.00	-16.10
18.00	56.00	-18.10
18.00	58.00	-20.10
18.00	60.00	-22.10
18.00	62.00	-24.10
18.00	64.00	-26.10
18.00	66.00	-28.10
18.00	68.00	-30.10
18.00	70.00	-32.10
18.00	72.00	-34.10
18.00	74.00	-36.10
18.00	76.00	-38.10
18.00	78.00	-40.10
18.00	80.00	-42.10
18.00	82.00	-44.10
18.00	84.00	-46.10
18.00	86.00	-48.10
18.00	88.00	-50.10
18.00	90.00	-52.10
18.00	92.00	-54.10
18.00	94.00	-56.10
18.00	96.00	-58.10
18.00	98.00	-60.10
18.00	100.00	-62.10

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
-----	-----	-----	-----	-----	-----	-----
10.00	18.0	22.50	35.57	58.07	29.03	129.20
12.00	18.0	34.71	34.67	69.39	34.69	138.73
14.00	18.0	40.07	37.35	77.42	38.71	152.12

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16.00	18.0	44.42	30.98	75.40	37.70	137.36
18.00	18.0	50.77	14.36	65.13	32.56	93.84
20.00	18.0	57.67	11.82	69.48	34.74	93.11
22.00	18.0	63.31	8.59	71.91	35.95	89.09
24.00	18.0	65.95	0.00	65.95	32.97	65.95
26.00	18.0	65.95	7.79	73.74	36.87	89.33
28.00	18.0	65.95	4.74	70.69	35.35	80.18
30.00	18.0	65.95	2.93	68.87	34.44	74.73
32.00	18.0	65.95	1.59	67.53	33.77	70.71
34.00	18.0	65.95	0.57	66.51	33.26	67.65
36.00	18.0	65.95	1.77	67.72	33.86	71.26
38.00	18.0	65.95	8.61	74.56	37.28	91.79
40.00	18.0	67.00	18.22	85.22	42.61	121.66
42.00	18.0	70.35	23.21	93.56	46.78	139.98
44.00	18.0	84.28	24.00	108.27	54.14	156.26
46.00	18.0	97.33	22.37	119.70	59.85	164.45
48.00	18.0	104.22	19.46	123.68	61.84	162.61
50.00	18.0	112.96	19.63	132.59	66.29	171.85
52.00	18.0	120.65	16.52	137.17	68.59	170.21
54.00	18.0	126.88	12.83	139.71	69.85	165.36
56.00	18.0	133.96	9.32	143.28	71.64	161.92
58.00	18.0	134.08	8.81	142.88	71.44	160.50
60.00	18.0	134.08	6.13	140.20	70.10	152.45
62.00	18.0	134.08	4.58	138.65	69.33	147.80
64.00	18.0	134.08	4.16	138.24	69.12	146.56
66.00	18.0	134.46	5.08	139.54	69.77	149.69
68.00	18.0	137.42	6.38	143.81	71.90	156.58
70.00	18.0	143.30	10.39	153.70	76.85	174.48
72.00	18.0	152.94	14.18	167.12	83.56	195.47
74.00	18.0	164.84	27.12	191.95	95.98	246.19
76.00	18.0	180.41	34.28	214.69	107.34	283.25
78.00	18.0	187.68	48.58	236.26	118.13	333.43
80.00	18.0	205.99	86.24	292.23	146.12	464.71
82.00	18.0	217.23	89.58	306.81	153.41	485.98
84.00	18.0	225.71	94.84	320.55	160.27	510.22
86.00	18.0	233.76	88.47	322.24	161.12	499.19
88.00	18.0	247.11	73.04	320.15	160.08	466.23
90.00	18.0	259.45	102.96	362.42	181.21	568.34
92.00	18.0	272.93	108.91	381.84	190.92	599.67
94.00	18.0	285.05	118.32	403.37	201.68	640.00
96.00	18.0	*****	Not enough soil data	*****		
98.00	18.0	0.00	0.00	0.00	0.00	0.00
100.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.



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2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B28\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 10-10-13, Boring Number: WL2-B28  
 Station number: 813+66 Offset: 133 LT

Ground Elevation: 33.900(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	6.00	3- Clean sand
2	2.00	6.00	3- Clean sand
3	3.00	6.00	2- Clay and silty sand
4	4.00	27.00	3- Clean sand
5	6.00	16.00	2- Clay and silty sand
6	8.00	12.00	2- Clay and silty sand
7	10.00	6.00	2- Clay and silty sand
8	12.50	9.00	2- Clay and silty sand
9	15.00	16.00	3- Clean sand
10	17.50	17.00	3- Clean sand
11	20.00	6.00	2- Clay and silty sand
12	22.50	2.00	1- Plastic Clay
13	25.00	2.00	5- Cavity layer
14	27.50	17.00	2- Clay and silty sand
15	28.75	5.00	3- Clean sand
16	30.00	5.00	2- Clay and silty sand
17	32.50	4.00	2- Clay and silty sand

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18	35.00	4.00	2- Clay and silty sand
19	37.50	5.00	2- Clay and silty sand
20	38.75	5.00	3- Clean sand
21	40.00	7.00	2- Clay and silty sand
22	42.50	10.00	2- Clay and silty sand
23	43.75	2.00	3- Clean sand
24	45.00	2.00	2- Clay and silty sand
25	46.25	2.00	3- Clean sand
26	47.50	12.00	2- Clay and silty sand
27	50.00	11.00	2- Clay and silty sand
28	52.50	2.00	1- Plastic Clay
29	55.00	8.00	2- Clay and silty sand
30	56.25	4.00	3- Clean sand
31	57.50	4.00	2- Clay and silty sand
32	58.75	4.00	3- Clean sand
33	60.00	10.00	2- Clay and silty sand
34	62.50	22.00	2- Clay and silty sand
35	65.00	35.00	1- Plastic Clay
36	67.50	99.00	2- Clay and silty sand
37	70.00	99.00	4- Lime Stone/Very shelly sand
38	72.50	99.00	4- Lime Stone/Very shelly sand
39	75.00	99.00	2- Clay and silty sand
40	76.25	30.00	3- Clean sand
41	77.50	30.00	2- Clay and silty sand
42	80.00	99.00	4- Lime Stone/Very shelly sand
43	82.50	99.00	4- Lime Stone/Very shelly sand
44	85.00	99.00	4- Lime Stone/Very shelly sand
45	87.50	99.00	2- Clay and silty sand
46	90.00	99.00	2- Clay and silty sand
47	91.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	33.90	30.90	3.00	6.00	3-Clean Sand
2	30.90	29.90	1.00	6.00	2-Clay and Silty Sand
3	29.90	27.90	2.00	27.00	3-Clean Sand
4	27.90	18.90	9.00	10.39	2-Clay and Silty Sand
5	18.90	13.90	5.00	16.50	3-Clean Sand
6	13.90	11.40	2.50	6.00	2-Clay and Silty Sand
7	11.40	8.90	2.50	2.00	1-Plastic Clay

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8	8.90	6.40	2.50	2.00	5-Void
9	6.40	5.15	1.25	17.00	2-Clay and Silty Sand
10	5.15	3.90	1.25	5.00	3-Clean Sand
11	3.90	-4.85	8.75	4.43	2-Clay and Silty Sand
12	-4.85	-6.10	1.25	5.00	3-Clean Sand
13	-6.10	-9.85	3.75	8.00	2-Clay and Silty Sand
14	-9.85	-11.10	1.25	2.00	3-Clean Sand
15	-11.10	-12.35	1.25	2.00	2-Clay and Silty Sand
16	-12.35	-13.60	1.25	2.00	3-Clean Sand
17	-13.60	-18.60	5.00	11.50	2-Clay and Silty Sand
18	-18.60	-21.10	2.50	2.00	1-Plastic Clay
19	-21.10	-22.35	1.25	8.00	2-Clay and Silty Sand
20	-22.35	-23.60	1.25	4.00	3-Clean Sand
21	-23.60	-24.85	1.25	4.00	2-Clay and Silty Sand
22	-24.85	-26.10	1.25	4.00	3-Clean Sand
23	-26.10	-31.10	5.00	16.00	2-Clay and Silty Sand
24	-31.10	-33.60	2.50	35.00	1-Plastic Clay
25	-33.60	-36.10	2.50	99.00	2-Clay and Silty Sand
26	-36.10	-41.10	5.00	99.00	4-Limestone, Very
Shelly Sand					
27	-41.10	-42.35	1.25	99.00	2-Clay and Silty Sand
28	-42.35	-43.60	1.25	30.00	3-Clean Sand
29	-43.60	-46.10	2.50	30.00	2-Clay and Silty Sand
30	-46.10	-53.60	7.50	99.00	4-Limestone, Very
Shelly Sand					
31	-53.60	-57.10	3.50	99.00	2-Clay and Silty Sand
32	-57.10	-57.10	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	23.90
18.00	12.00	21.90
18.00	14.00	19.90
18.00	16.00	17.90
18.00	18.00	15.90
18.00	20.00	13.90
18.00	22.00	11.90
18.00	24.00	9.90
18.00	26.00	7.90
18.00	28.00	5.90

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18.00	30.00	3.90
18.00	32.00	1.90
18.00	34.00	-0.10
18.00	36.00	-2.10
18.00	38.00	-4.10
18.00	40.00	-6.10
18.00	42.00	-8.10
18.00	44.00	-10.10
18.00	46.00	-12.10
18.00	48.00	-14.10
18.00	50.00	-16.10
18.00	52.00	-18.10
18.00	54.00	-20.10
18.00	56.00	-22.10
18.00	58.00	-24.10
18.00	60.00	-26.10
18.00	62.00	-28.10
18.00	64.00	-30.10
18.00	66.00	-32.10
18.00	68.00	-34.10
18.00	70.00	-36.10
18.00	72.00	-38.10
18.00	74.00	-40.10
18.00	76.00	-42.10
18.00	78.00	-44.10
18.00	80.00	-46.10
18.00	82.00	-48.10
18.00	84.00	-50.10
18.00	86.00	-52.10
18.00	88.00	-54.10
18.00	90.00	-56.10

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
-----	-----	-----	-----	-----	-----	-----
10.00	18.0	28.55	24.32	52.87	26.44	101.51
12.00	18.0	32.73	25.86	58.59	29.29	110.30
14.00	18.0	38.20	29.82	68.01	34.01	127.64
16.00	18.0	43.45	28.52	71.98	35.99	129.02
18.00	18.0	48.18	19.21	67.39	33.69	105.81

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20.00	18.0	52.50	2.19	54.68	27.34	59.05
22.00	18.0	53.74	3.18	56.92	28.46	63.27
24.00	18.0	54.99	6.04	61.03	30.52	73.12
26.00	18.0	55.97	0.00	55.97	27.99	55.97
28.00	18.0	63.16	11.97	75.13	37.57	99.08
30.00	18.0	66.13	1.79	67.92	33.96	71.50
32.00	18.0	67.48	2.19	69.67	34.83	74.04
34.00	18.0	67.46	3.29	70.75	35.37	77.33
36.00	18.0	67.73	5.85	73.58	36.79	85.28
38.00	18.0	69.80	7.61	77.40	38.70	92.62
40.00	18.0	73.72	7.79	81.51	40.76	97.10
42.00	18.0	78.72	7.98	86.70	43.35	102.66
44.00	18.0	82.54	3.95	86.49	43.25	94.40
46.00	18.0	82.54	9.02	91.56	45.78	109.60
48.00	18.0	86.70	9.41	96.11	48.05	114.93
50.00	18.0	93.79	8.63	102.42	51.21	119.67
52.00	18.0	97.92	6.97	104.89	52.45	118.84
54.00	18.0	99.26	3.54	102.80	51.40	109.89
56.00	18.0	102.62	6.06	108.69	54.34	120.81
58.00	18.0	102.96	11.47	114.44	57.22	137.39
60.00	18.0	104.94	16.46	121.41	60.70	154.33
62.00	18.0	111.75	18.21	129.97	64.98	166.40
64.00	18.0	118.53	29.88	148.40	74.20	208.16
66.00	18.0	141.48	54.16	195.64	97.82	303.95
68.00	18.0	158.66	81.37	240.03	120.01	402.77
70.00	18.0	169.46	91.07	260.52	130.26	442.66
72.00	18.0	176.66	87.97	264.63	132.31	440.56
74.00	18.0	185.77	86.40	272.17	136.09	444.98
76.00	18.0	199.10	92.28	291.38	145.69	475.94
78.00	18.0	210.65	120.78	331.42	165.71	572.98
80.00	18.0	220.78	138.91	359.68	179.84	637.49
82.00	18.0	227.98	133.33	361.31	180.66	627.98
84.00	18.0	235.18	116.30	351.48	175.74	584.07
86.00	18.0	*****	Not enough soil data	*****		
88.00	18.0	0.00	0.00	0.00	0.00	0.00
90.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
  4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.

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EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE  
ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B29\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 9-17-13, Boring Number: WL2-B29  
 Station number: 813+74 Offset: 19 LT

Ground Elevation: 36.700(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	2.00	3- Clean sand
2	2.00	2.00	3- Clean sand
3	4.00	4.00	2- Clay and silty sand
4	5.00	4.00	3- Clean sand
5	6.00	42.00	2- Clay and silty sand
6	8.00	28.00	2- Clay and silty sand
7	9.00	9.00	3- Clean sand
8	10.00	9.00	2- Clay and silty sand
9	12.50	17.00	2- Clay and silty sand
10	15.00	15.00	2- Clay and silty sand
11	17.50	20.00	2- Clay and silty sand
12	20.00	2.00	5- Cavity layer
13	22.50	6.00	2- Clay and silty sand
14	23.75	6.00	3- Clean sand
15	25.00	31.00	2- Clay and silty sand
16	27.50	5.00	3- Clean sand
17	28.75	2.00	2- Clay and silty sand



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18	30.00	2.00	3- Clean sand
19	32.50	2.00	2- Clay and silty sand
20	35.00	2.00	2- Clay and silty sand
21	37.50	3.00	2- Clay and silty sand
22	40.00	3.00	2- Clay and silty sand
23	41.25	3.00	3- Clean sand
24	42.50	9.00	2- Clay and silty sand
25	43.75	2.00	3- Clean sand
26	45.00	2.00	2- Clay and silty sand
27	46.25	2.00	3- Clean sand
28	47.50	8.00	2- Clay and silty sand
29	50.00	11.00	2- Clay and silty sand
30	52.50	0.00	1- Plastic Clay
31	53.75	0.00	2- Clay and silty sand
32	55.00	7.00	1- Plastic Clay
33	56.25	4.00	2- Clay and silty sand
34	57.50	4.00	1- Plastic Clay
35	58.75	4.00	2- Clay and silty sand
36	60.00	10.00	1- Plastic Clay
37	62.50	18.00	2- Clay and silty sand
38	63.75	18.00	3- Clean sand
39	65.00	43.00	2- Clay and silty sand
40	67.50	99.00	2- Clay and silty sand
41	70.00	99.00	2- Clay and silty sand
42	71.25	38.00	3- Clean sand
43	72.50	38.00	2- Clay and silty sand
44	75.00	38.00	2- Clay and silty sand
45	77.50	31.00	2- Clay and silty sand
46	78.75	31.00	3- Clean sand
47	80.00	99.00	2- Clay and silty sand
48	82.50	99.00	2- Clay and silty sand
49	85.00	99.00	2- Clay and silty sand
50	87.50	64.00	2- Clay and silty sand
51	90.00	99.00	2- Clay and silty sand
52	92.50	99.00	2- Clay and silty sand
53	95.00	99.00	2- Clay and silty sand
54	97.50	99.00	2- Clay and silty sand
55	100.00	99.00	2- Clay and silty sand
56	101.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
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1	36.70	32.70	4.00	2.00	3-Clean Sand
2	32.70	31.70	1.00	4.00	2-Clay and Silty Sand
3	31.70	30.70	1.00	4.00	3-Clean Sand
4	30.70	27.70	3.00	37.33	2-Clay and Silty Sand
5	27.70	26.70	1.00	9.00	3-Clean Sand
6	26.70	16.70	10.00	15.25	2-Clay and Silty Sand
7	16.70	14.20	2.50	2.00	5-Void
8	14.20	12.95	1.25	6.00	2-Clay and Silty Sand
9	12.95	11.70	1.25	6.00	3-Clean Sand
10	11.70	9.20	2.50	31.00	2-Clay and Silty Sand
11	9.20	7.95	1.25	5.00	3-Clean Sand
12	7.95	6.70	1.25	2.00	2-Clay and Silty Sand
13	6.70	4.20	2.50	2.00	3-Clean Sand
14	4.20	-4.55	8.75	2.43	2-Clay and Silty Sand
15	-4.55	-5.80	1.25	3.00	3-Clean Sand
16	-5.80	-7.05	1.25	9.00	2-Clay and Silty Sand
17	-7.05	-8.30	1.25	2.00	3-Clean Sand
18	-8.30	-9.55	1.25	2.00	2-Clay and Silty Sand
19	-9.55	-10.80	1.25	2.00	3-Clean Sand
20	-10.80	-15.80	5.00	9.50	2-Clay and Silty Sand
21	-15.80	-17.05	1.25	0.00	1-Plastic Clay
22	-17.05	-18.30	1.25	0.00	2-Clay and Silty Sand
23	-18.30	-19.55	1.25	7.00	1-Plastic Clay
24	-19.55	-20.80	1.25	4.00	2-Clay and Silty Sand
25	-20.80	-22.05	1.25	4.00	1-Plastic Clay
26	-22.05	-23.30	1.25	4.00	2-Clay and Silty Sand
27	-23.30	-25.80	2.50	10.00	1-Plastic Clay
28	-25.80	-27.05	1.25	18.00	2-Clay and Silty Sand
29	-27.05	-28.30	1.25	18.00	3-Clean Sand
30	-28.30	-34.55	6.25	76.60	2-Clay and Silty Sand
31	-34.55	-35.80	1.25	38.00	3-Clean Sand
32	-35.80	-42.05	6.25	36.60	2-Clay and Silty Sand
33	-42.05	-43.30	1.25	31.00	3-Clean Sand
34	-43.30	-64.30	21.00	94.83	2-Clay and Silty Sand
35	-64.30	-64.30	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
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18.00	10.00	26.70
18.00	12.00	24.70
18.00	14.00	22.70
18.00	16.00	20.70
18.00	18.00	18.70
18.00	20.00	16.70
18.00	22.00	14.70
18.00	24.00	12.70
18.00	26.00	10.70
18.00	28.00	8.70
18.00	30.00	6.70
18.00	32.00	4.70
18.00	34.00	2.70
18.00	36.00	0.70
18.00	38.00	-1.30
18.00	40.00	-3.30
18.00	42.00	-5.30
18.00	44.00	-7.30
18.00	46.00	-9.30
18.00	48.00	-11.30
18.00	50.00	-13.30
18.00	52.00	-15.30
18.00	54.00	-17.30
18.00	56.00	-19.30
18.00	58.00	-21.30
18.00	60.00	-23.30
18.00	62.00	-25.30
18.00	64.00	-27.30
18.00	66.00	-29.30
18.00	68.00	-31.30
18.00	70.00	-33.30
18.00	72.00	-35.30
18.00	74.00	-37.30
18.00	76.00	-39.30
18.00	78.00	-41.30
18.00	80.00	-43.30
18.00	82.00	-45.30
18.00	84.00	-47.30
18.00	86.00	-49.30
18.00	88.00	-51.30
18.00	90.00	-53.30
18.00	92.00	-55.30
18.00	94.00	-57.30
18.00	96.00	-59.30
18.00	98.00	-61.30
18.00	100.00	-63.30

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	24.83	20.30	45.13	22.56	85.73
12.00	18.0	31.81	20.78	52.59	26.30	94.15
14.00	18.0	40.38	22.13	62.52	31.26	106.79
16.00	18.0	50.42	21.13	71.56	35.78	113.82
18.00	18.0	60.70	18.53	79.23	39.61	116.28
20.00	18.0	65.66	-5.89	59.77	29.89	47.99
22.00	18.0	67.26	0.00	67.26	33.63	67.26
24.00	18.0	70.31	20.09	90.40	45.20	130.57
26.00	18.0	79.09	17.63	96.72	48.36	131.98
28.00	18.0	84.94	2.02	86.97	43.48	91.01
30.00	18.0	85.30	7.39	92.69	46.34	107.46
32.00	18.0	85.30	6.39	91.69	45.85	104.48
34.00	18.0	85.30	6.10	91.40	45.70	103.59
36.00	18.0	85.30	5.02	90.32	45.16	100.35
38.00	18.0	85.30	3.37	88.67	44.34	95.41
40.00	18.0	85.30	1.73	87.03	43.52	90.50
42.00	18.0	85.86	1.64	87.51	43.75	90.80
44.00	18.0	88.91	2.95	91.86	45.93	97.77
46.00	18.0	88.91	5.32	94.23	47.12	104.88
48.00	18.0	91.88	5.99	97.87	48.93	109.85
50.00	18.0	98.09	4.80	102.88	51.44	112.48
52.00	18.0	102.21	3.92	106.13	53.07	113.97
54.00	18.0	102.45	3.81	106.26	53.13	113.87
56.00	18.0	105.35	4.03	109.38	54.69	117.43
58.00	18.0	105.68	8.22	113.90	56.95	130.35
60.00	18.0	107.94	19.75	127.70	63.85	167.20
62.00	18.0	114.48	26.53	141.01	70.50	194.07
64.00	18.0	124.43	37.79	162.22	81.11	237.81
66.00	18.0	137.25	43.39	180.64	90.32	267.41
68.00	18.0	149.92	48.48	198.39	99.20	295.34
70.00	18.0	163.53	55.03	218.56	109.28	328.62
72.00	18.0	182.39	57.10	239.49	119.74	353.69
74.00	18.0	196.87	54.92	251.79	125.90	361.63
76.00	18.0	210.64	58.34	268.98	134.49	385.67
78.00	18.0	223.66	63.79	287.45	143.72	415.02
80.00	18.0	239.01	72.00	311.01	155.50	455.01
82.00	18.0	254.72	72.00	326.72	163.36	470.72
84.00	18.0	270.43	72.00	342.43	171.21	486.43

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86.00	18.0	286.14	72.00	358.14	179.07	502.14	
88.00	18.0	301.84	72.00	373.84	186.92	517.84	
90.00	18.0	317.55	72.00	389.55	194.78	533.55	
92.00	18.0	333.26	72.00	405.26	202.63	549.26	
94.00	18.0	348.97	72.00	420.97	210.49	564.97	
96.00	18.0	***** Not enough soil data *****					
98.00	18.0	0.00	0.00	0.00	0.00	0.00	
100.00	18.0	0.00	0.00	0.00	0.00	0.00	

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 X THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 X THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B30\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJI  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 10-14-13, Boring Number: WL2-B30  
 Station number: 814+84 Offset: 56 LT

Ground Elevation: 34.900(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	2.00	3- Clean sand
2	2.00	2.00	3- Clean sand
3	4.00	5.00	2- Clay and silty sand
4	5.00	5.00	3- Clean sand
5	6.00	22.00	2- Clay and silty sand
6	8.00	16.00	2- Clay and silty sand
7	10.00	4.00	3- Clean sand
8	11.25	4.00	2- Clay and silty sand
9	12.50	6.00	3- Clean sand
10	15.00	6.00	2- Clay and silty sand
11	17.50	17.00	2- Clay and silty sand
12	20.00	2.00	1- Plastic Clay
13	22.50	0.00	1- Plastic Clay
14	25.00	0.00	1- Plastic Clay
15	27.50	17.00	3- Clean sand
16	30.00	4.00	2- Clay and silty sand
17	32.50	3.00	2- Clay and silty sand

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18	33.75	3.00	3- Clean sand
19	35.00	6.00	2- Clay and silty sand
20	37.50	6.00	1- Plastic Clay
21	40.00	5.00	2- Clay and silty sand
22	42.50	4.00	2- Clay and silty sand
23	43.75	4.00	3- Clean sand
24	45.00	6.00	2- Clay and silty sand
25	46.25	3.00	3- Clean sand
26	47.50	3.00	2- Clay and silty sand
27	48.75	3.00	3- Clean sand
28	50.00	11.00	2- Clay and silty sand
29	52.50	12.00	2- Clay and silty sand
30	55.00	5.00	4- Lime Stone/Very shelly sand
31	57.50	6.00	4- Lime Stone/Very shelly sand
32	60.00	25.00	2- Clay and silty sand
33	62.50	33.00	2- Clay and silty sand
34	65.00	99.00	4- Lime Stone/Very shelly sand
35	67.50	99.00	4- Lime Stone/Very shelly sand
36	70.00	99.00	2- Clay and silty sand
37	72.50	99.00	4- Lime Stone/Very shelly sand
38	75.00	99.00	2- Clay and silty sand
39	77.50	99.00	2- Clay and silty sand
40	80.00	99.00	4- Lime Stone/Very shelly sand
41	82.50	99.00	2- Clay and silty sand
42	85.00	99.00	2- Clay and silty sand
43	86.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	34.90	30.90	4.00	2.00	3-Clean Sand
2	30.90	29.90	1.00	5.00	2-Clay and Silty Sand
3	29.90	28.90	1.00	5.00	3-Clean Sand
4	28.90	24.90	4.00	19.00	2-Clay and Silty Sand
5	24.90	23.65	1.25	4.00	3-Clean Sand
6	23.65	22.40	1.25	4.00	2-Clay and Silty Sand
7	22.40	19.90	2.50	6.00	3-Clean Sand
8	19.90	14.90	5.00	11.50	2-Clay and Silty Sand
9	14.90	7.40	7.50	0.67	1-Plastic Clay
10	7.40	4.90	2.50	17.00	3-Clean Sand
11	4.90	1.15	3.75	3.67	2-Clay and Silty Sand

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12	1.15	-0.10	1.25	3.00	3-Clean Sand
13	-0.10	-2.60	2.50	6.00	2-Clay and Silty Sand
14	-2.60	-5.10	2.50	6.00	1-Plastic Clay
15	-5.10	-8.85	3.75	4.67	2-Clay and Silty Sand
16	-8.85	-10.10	1.25	4.00	3-Clean Sand
17	-10.10	-11.35	1.25	6.00	2-Clay and Silty Sand
18	-11.35	-12.60	1.25	3.00	3-Clean Sand
19	-12.60	-13.85	1.25	3.00	2-Clay and Silty Sand
20	-13.85	-15.10	1.25	3.00	3-Clean Sand
21	-15.10	-20.10	5.00	11.50	2-Clay and Silty Sand
22	-20.10	-25.10	5.00	5.50	4-Limestone, Very
Shelly Sand					
23	-25.10	-30.10	5.00	29.00	2-Clay and Silty Sand
24	-30.10	-35.10	5.00	99.00	4-Limestone, Very
Shelly Sand					
25	-35.10	-37.60	2.50	99.00	2-Clay and Silty Sand
26	-37.60	-40.10	2.50	99.00	4-Limestone, Very
Shelly Sand					
27	-40.10	-45.10	5.00	99.00	2-Clay and Silty Sand
28	-45.10	-47.60	2.50	99.00	4-Limestone, Very
Shelly Sand					
29	-47.60	-51.10	3.50	99.00	2-Clay and Silty Sand
30	-51.10	-51.10	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	24.90
18.00	12.00	22.90
18.00	14.00	20.90
18.00	16.00	18.90
18.00	18.00	16.90
18.00	20.00	14.90
18.00	22.00	12.90
18.00	24.00	10.90
18.00	26.00	8.90
18.00	28.00	6.90
18.00	30.00	4.90
18.00	32.00	2.90
18.00	34.00	0.90
18.00	36.00	-1.10



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18.00	38.00	-3.10
18.00	40.00	-5.10
18.00	42.00	-7.10
18.00	44.00	-9.10
18.00	46.00	-11.10
18.00	48.00	-13.10
18.00	50.00	-15.10
18.00	52.00	-17.10
18.00	54.00	-19.10
18.00	56.00	-21.10
18.00	58.00	-23.10
18.00	60.00	-25.10
18.00	62.00	-27.10
18.00	64.00	-29.10
18.00	66.00	-31.10
18.00	68.00	-33.10
18.00	70.00	-35.10
18.00	72.00	-37.10
18.00	74.00	-39.10
18.00	76.00	-41.10
18.00	78.00	-43.10
18.00	80.00	-45.10
18.00	82.00	-47.10
18.00	84.00	-49.10

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	21.46	10.62	32.08	16.04	53.33
12.00	18.0	21.64	11.80	33.44	16.72	57.05
14.00	18.0	23.67	13.57	37.25	18.62	64.39
16.00	18.0	28.13	13.10	41.23	20.61	67.42
18.00	18.0	36.39	9.39	45.78	22.89	64.57
20.00	18.0	40.32	0.12	40.44	20.22	40.68
22.00	18.0	40.32	3.29	43.61	21.80	50.19
24.00	18.0	40.32	11.50	51.82	25.91	74.83
26.00	18.0	40.68	11.93	52.60	26.30	76.46
28.00	18.0	44.40	10.03	54.43	27.22	74.49
30.00	18.0	46.33	1.48	47.80	23.90	50.75
32.00	18.0	46.33	1.64	47.96	23.98	51.24

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34.00	18.0	46.37	8.04	54.42	27.21	70.50
36.00	18.0	49.61	8.56	58.17	29.09	75.30
38.00	18.0	54.04	4.16	58.20	29.10	66.53
40.00	18.0	57.89	3.22	61.11	30.55	67.54
42.00	18.0	59.86	3.25	63.11	31.55	69.62
44.00	18.0	60.05	2.98	63.03	31.51	69.00
46.00	18.0	62.17	4.23	66.40	33.20	74.85
48.00	18.0	62.49	7.47	69.96	34.98	84.89
50.00	18.0	64.64	10.38	75.02	37.51	95.77
52.00	18.0	71.13	10.77	81.90	40.95	103.45
54.00	18.0	75.34	12.88	88.21	44.11	113.97
56.00	18.0	79.01	16.91	95.91	47.96	129.73
58.00	18.0	79.72	20.11	99.83	49.91	140.04
60.00	18.0	88.27	48.18	136.45	68.22	232.80
62.00	18.0	97.92	56.82	154.74	77.37	268.38
64.00	18.0	106.63	76.29	182.93	91.46	335.51
66.00	18.0	122.89	90.08	212.97	106.48	393.12
68.00	18.0	129.49	92.97	222.47	111.23	408.41
70.00	18.0	142.61	114.86	257.46	128.73	487.18
72.00	18.0	154.91	104.57	259.48	129.74	468.63
74.00	18.0	164.12	103.08	267.20	133.60	473.35
76.00	18.0	179.10	90.75	269.85	134.92	451.35
78.00	18.0	194.60	93.75	288.35	144.17	475.85
80.00	18.0	205.20	99.56	304.76	152.38	503.89
82.00	18.0	*****	Not enough soil data	*****		
84.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B31\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 9-20-13, Boring Number: WL2-B31  
 Station number: 814+98 Offset: 65 RT

Ground Elevation: 36.600(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	2.00	3- Clean sand
2	6.00	10.00	2- Clay and silty sand
3	8.00	20.00	2- Clay and silty sand
4	10.00	14.00	2- Clay and silty sand
5	12.50	11.00	2- Clay and silty sand
6	15.00	13.00	2- Clay and silty sand
7	17.50	32.00	3- Clean sand
8	18.75	5.00	2- Clay and silty sand
9	20.00	5.00	3- Clean sand
10	22.50	4.00	5- Cavity layer
11	25.00	8.00	5- Cavity layer
12	27.50	4.00	2- Clay and silty sand
13	30.00	3.00	2- Clay and silty sand
14	32.50	2.00	2- Clay and silty sand
15	35.00	4.00	2- Clay and silty sand
16	37.50	4.00	2- Clay and silty sand
17	40.00	3.00	2- Clay and silty sand

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18	42.50	2.00	2- Clay and silty sand
19	43.75	2.00	3- Clean sand
20	45.00	6.00	2- Clay and silty sand
21	47.50	8.00	2- Clay and silty sand
22	50.00	14.00	2- Clay and silty sand
23	52.50	0.00	1- Plastic Clay
24	55.00	4.00	1- Plastic Clay
25	57.50	2.00	1- Plastic Clay
26	60.00	27.00	2- Clay and silty sand
27	62.50	46.00	2- Clay and silty sand
28	65.00	99.00	4- Lime Stone/Very shelly sand
29	67.50	99.00	4- Lime Stone/Very shelly sand
30	70.00	99.00	4- Lime Stone/Very shelly sand
31	72.50	21.00	2- Clay and silty sand
32	73.75	21.00	3- Clean sand
33	75.00	58.00	2- Clay and silty sand
34	77.50	99.00	2- Clay and silty sand
35	80.00	99.00	2- Clay and silty sand
36	82.50	99.00	2- Clay and silty sand
37	85.00	99.00	2- Clay and silty sand
38	87.50	99.00	2- Clay and silty sand
39	90.00	99.00	2- Clay and silty sand
40	92.50	99.00	2- Clay and silty sand
41	93.75	36.00	3- Clean sand
42	95.00	36.00	2- Clay and silty sand
43	97.50	21.00	2- Clay and silty sand
44	98.75	21.00	3- Clean sand
45	100.00	99.00	2- Clay and silty sand
46	101.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	36.60	30.60	6.00	2.00	3-Clean Sand
2	30.60	19.10	11.50	13.48	2-Clay and Silty Sand
3	19.10	17.85	1.25	32.00	3-Clean Sand
4	17.85	16.60	1.25	5.00	2-Clay and Silty Sand
5	16.60	14.10	2.50	5.00	3-Clean Sand
6	14.10	9.10	5.00	6.00	5-Void
7	9.10	-7.15	16.25	3.23	2-Clay and Silty Sand
8	-7.15	-8.40	1.25	2.00	3-Clean Sand

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9	-8.40	-15.90	7.50	9.33	2-Clay and Silty Sand
10	-15.90	-23.40	7.50	2.00	1-Plastic Clay
11	-23.40	-28.40	5.00	36.50	2-Clay and Silty Sand
12	-28.40	-35.90	7.50	99.00	4-Limestone, Very
Shelly Sand					
13	-35.90	-37.15	1.25	21.00	2-Clay and Silty Sand
14	-37.15	-38.40	1.25	21.00	3-Clean Sand
15	-38.40	-57.15	18.75	93.53	2-Clay and Silty Sand
16	-57.15	-58.40	1.25	36.00	3-Clean Sand
17	-58.40	-62.15	3.75	31.00	2-Clay and Silty Sand
18	-62.15	-63.40	1.25	21.00	3-Clean Sand
19	-63.40	-64.40	1.00	99.00	2-Clay and Silty Sand
20	-64.40	-64.40	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	26.60
18.00	12.00	24.60
18.00	14.00	22.60
18.00	16.00	20.60
18.00	18.00	18.60
18.00	20.00	16.60
18.00	22.00	14.60
18.00	24.00	12.60
18.00	26.00	10.60
18.00	28.00	8.60
18.00	30.00	6.60
18.00	32.00	4.60
18.00	34.00	2.60
18.00	36.00	0.60
18.00	38.00	-1.40
18.00	40.00	-3.40
18.00	42.00	-5.40
18.00	44.00	-7.40
18.00	46.00	-9.40
18.00	48.00	-11.40
18.00	50.00	-13.40
18.00	52.00	-15.40
18.00	54.00	-17.40
18.00	56.00	-19.40

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18.00	58.00	-21.40
18.00	60.00	-23.40
18.00	62.00	-25.40
18.00	64.00	-27.40
18.00	66.00	-29.40
18.00	68.00	-31.40
18.00	70.00	-33.40
18.00	72.00	-35.40
18.00	74.00	-37.40
18.00	76.00	-39.40
18.00	78.00	-41.40
18.00	80.00	-43.40
18.00	82.00	-45.40
18.00	84.00	-47.40
18.00	86.00	-49.40
18.00	88.00	-51.40
18.00	90.00	-53.40
18.00	92.00	-55.40
18.00	94.00	-57.40
18.00	96.00	-59.40
18.00	98.00	-61.40
18.00	100.00	-63.40

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	27.13	15.86	42.99	21.49	74.71
12.00	18.0	30.93	23.93	54.86	27.43	102.72
14.00	18.0	38.31	30.60	68.91	34.45	130.11
16.00	18.0	46.29	29.36	75.64	37.82	134.36
18.00	18.0	59.35	20.86	80.22	40.11	121.95
20.00	18.0	62.75	3.54	66.29	33.15	73.38
22.00	18.0	63.43	3.76	67.20	33.60	74.72
24.00	18.0	63.63	0.00	63.63	31.82	63.63
26.00	18.0	63.63	0.00	63.63	31.82	63.63
28.00	18.0	63.63	8.56	72.19	36.10	89.31
30.00	18.0	63.63	2.41	66.05	33.02	70.87
32.00	18.0	63.63	0.78	64.41	32.20	65.96
34.00	18.0	63.63	0.03	63.67	31.83	63.73
36.00	18.0	63.63	0.00	63.63	31.82	63.63

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38.00	18.0	63.63	0.00	63.63	31.82	63.63	
40.00	18.0	63.63	0.75	64.38	32.19	65.88	
42.00	18.0	63.63	2.73	66.37	33.18	71.83	
44.00	18.0	63.68	5.11	68.79	34.39	79.00	
46.00	18.0	66.79	7.23	74.01	37.01	88.47	
48.00	18.0	71.81	7.22	79.03	39.51	93.46	
50.00	18.0	79.14	5.50	84.64	42.32	95.65	
52.00	18.0	84.20	4.16	88.36	44.18	96.68	
54.00	18.0	84.41	1.22	85.63	42.81	88.06	
56.00	18.0	84.41	10.41	94.81	47.41	115.63	
58.00	18.0	84.65	23.60	108.25	54.12	155.44	
60.00	18.0	92.79	48.84	141.63	70.81	239.31	
62.00	18.0	103.23	56.81	160.04	80.02	273.65	
64.00	18.0	112.06	78.31	190.36	95.18	346.98	
66.00	18.0	128.95	100.93	229.88	114.94	431.74	
68.00	18.0	136.25	96.77	233.01	116.51	426.55	
70.00	18.0	143.45	91.72	235.17	117.59	418.62	
72.00	18.0	152.35	91.68	244.02	122.01	427.38	
74.00	18.0	161.40	95.70	257.10	128.55	448.51	
76.00	18.0	175.15	94.73	269.88	134.94	459.34	
78.00	18.0	190.86	88.01	278.87	139.44	454.89	
80.00	18.0	206.57	80.51	287.08	143.54	448.10	
82.00	18.0	222.28	73.01	295.29	147.65	441.31	
84.00	18.0	237.99	69.87	307.86	153.93	447.59	
86.00	18.0	253.70	71.84	325.54	162.77	469.23	
88.00	18.0	269.41	72.75	342.16	171.08	487.67	
90.00	18.0	285.12	74.62	359.74	179.87	508.98	
92.00	18.0	300.83	68.98	369.81	184.91	507.78	
94.00	18.0	314.18	63.11	377.29	188.65	503.52	
96.00	18.0	***** Not enough soil data *****					
98.00	18.0	0.00	0.00	0.00	0.00	0.00	
100.00	18.0	0.00	0.00	0.00	0.00	0.00	

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
  4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B32\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 10-16-13, Boring Number: WL2-B32  
 Station number: 815+97 Offset: 136 LT

Ground Elevation: 33.300(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	2.00	2- Clay and silty sand
2	2.00	2.00	2- Clay and silty sand
3	3.00	2.00	3- Clean sand
4	4.00	13.00	2- Clay and silty sand
5	6.00	6.00	2- Clay and silty sand
6	7.00	4.00	3- Clean sand
7	8.00	4.00	2- Clay and silty sand
8	10.00	4.00	2- Clay and silty sand
9	12.50	13.00	3- Clean sand
10	15.00	8.00	2- Clay and silty sand
11	17.50	11.00	2- Clay and silty sand
12	20.00	14.00	2- Clay and silty sand
13	22.50	11.00	2- Clay and silty sand
14	25.00	8.00	2- Clay and silty sand
15	27.50	11.00	2- Clay and silty sand
16	30.00	10.00	2- Clay and silty sand
17	32.50	8.00	2- Clay and silty sand



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18	35.00	8.00	2- Clay and silty sand
19	37.50	5.00	1- Plastic Clay
20	40.00	5.00	2- Clay and silty sand
21	42.50	10.00	2- Clay and silty sand
22	45.00	9.00	2- Clay and silty sand
23	47.50	19.00	2- Clay and silty sand
24	50.00	0.00	1- Plastic Clay
25	52.50	7.00	2- Clay and silty sand
26	55.00	12.00	2- Clay and silty sand
27	56.25	3.00	3- Clean sand
28	57.50	3.00	2- Clay and silty sand
29	58.75	3.00	3- Clean sand
30	60.00	9.00	2- Clay and silty sand
31	62.50	12.00	1- Plastic Clay
32	65.00	22.00	1- Plastic Clay
33	67.50	99.00	2- Clay and silty sand
34	70.00	99.00	4- Lime Stone/Very shelly sand
35	72.50	99.00	4- Lime Stone/Very shelly sand
36	75.00	99.00	2- Clay and silty sand
37	76.25	21.00	3- Clean sand
38	77.50	21.00	2- Clay and silty sand
39	78.75	21.00	3- Clean sand
40	80.00	99.00	2- Clay and silty sand
41	82.50	99.00	2- Clay and silty sand
42	85.00	99.00	4- Lime Stone/Very shelly sand
43	87.50	99.00	4- Lime Stone/Very shelly sand
44	90.00	99.00	2- Clay and silty sand
45	92.50	99.00	2- Clay and silty sand
46	93.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	33.30	30.30	3.00	2.00	2-Clay and Silty Sand
2	30.30	29.30	1.00	2.00	3-Clean Sand
3	29.30	26.30	3.00	10.67	2-Clay and Silty Sand
4	26.30	25.30	1.00	4.00	3-Clean Sand
5	25.30	20.80	4.50	4.00	2-Clay and Silty Sand
6	20.80	18.30	2.50	13.00	3-Clean Sand
7	18.30	-4.20	22.50	9.89	2-Clay and Silty Sand
8	-4.20	-6.70	2.50	5.00	1-Plastic Clay

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9	-6.70	-16.70	10.00	10.75	2-Clay and Silty Sand
10	-16.70	-19.20	2.50	0.00	1-Plastic Clay
11	-19.20	-22.95	3.75	8.67	2-Clay and Silty Sand
12	-22.95	-24.20	1.25	3.00	3-Clean Sand
13	-24.20	-25.45	1.25	3.00	2-Clay and Silty Sand
14	-25.45	-26.70	1.25	3.00	3-Clean Sand
15	-26.70	-29.20	2.50	9.00	2-Clay and Silty Sand
16	-29.20	-34.20	5.00	17.00	1-Plastic Clay
17	-34.20	-36.70	2.50	99.00	2-Clay and Silty Sand
18	-36.70	-41.70	5.00	99.00	4-Limestone, Very
Shelly Sand					
19	-41.70	-42.95	1.25	99.00	2-Clay and Silty Sand
20	-42.95	-44.20	1.25	21.00	3-Clean Sand
21	-44.20	-45.45	1.25	21.00	2-Clay and Silty Sand
22	-45.45	-46.70	1.25	21.00	3-Clean Sand
23	-46.70	-51.70	5.00	99.00	2-Clay and Silty Sand
24	-51.70	-56.70	5.00	99.00	4-Limestone, Very
Shelly Sand					
25	-56.70	-59.70	3.00	99.00	2-Clay and Silty Sand
26	-59.70	-59.70	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	23.30
18.00	12.00	21.30
18.00	14.00	19.30
18.00	16.00	17.30
18.00	18.00	15.30
18.00	20.00	13.30
18.00	22.00	11.30
18.00	24.00	9.30
18.00	26.00	7.30
18.00	28.00	5.30
18.00	30.00	3.30
18.00	32.00	1.30
18.00	34.00	-0.70
18.00	36.00	-2.70
18.00	38.00	-4.70
18.00	40.00	-6.70
18.00	42.00	-8.70

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18.00	44.00	-10.70
18.00	46.00	-12.70
18.00	48.00	-14.70
18.00	50.00	-16.70
18.00	52.00	-18.70
18.00	54.00	-20.70
18.00	56.00	-22.70
18.00	58.00	-24.70
18.00	60.00	-26.70
18.00	62.00	-28.70
18.00	64.00	-30.70
18.00	66.00	-32.70
18.00	68.00	-34.70
18.00	70.00	-36.70
18.00	72.00	-38.70
18.00	74.00	-40.70
18.00	76.00	-42.70
18.00	78.00	-44.70
18.00	80.00	-46.70
18.00	82.00	-48.70
18.00	84.00	-50.70
18.00	86.00	-52.70
18.00	88.00	-54.70
18.00	90.00	-56.70
18.00	92.00	-58.70
18.00	94.00	-60.70

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
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10.00	18.0	8.94	10.83	19.77	9.89	41.44
12.00	18.0	10.13	12.39	22.52	11.26	47.30
14.00	18.0	14.31	13.58	27.89	13.94	55.05
16.00	18.0	19.55	15.32	34.87	17.44	65.51
18.00	18.0	26.09	16.47	42.56	21.28	75.50
20.00	18.0	33.90	16.27	50.17	25.08	82.70
22.00	18.0	41.70	15.71	57.42	28.71	88.85
24.00	18.0	48.25	15.61	63.85	31.93	95.07
26.00	18.0	53.78	15.57	69.35	34.68	100.50
28.00	18.0	60.27	15.08	75.36	37.68	105.52

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30.00	18.0	66.83	14.39	81.22	40.61	110.01	
32.00	18.0	72.71	12.78	85.49	42.75	111.06	
34.00	18.0	77.94	10.79	88.72	44.36	110.30	
36.00	18.0	83.00	9.91	92.91	46.45	112.73	
38.00	18.0	87.15	6.64	93.79	46.89	107.06	
40.00	18.0	90.71	11.63	102.34	51.17	125.60	
42.00	18.0	94.82	12.15	106.97	53.48	131.27	
44.00	18.0	100.10	13.36	113.47	56.73	140.20	
46.00	18.0	107.30	12.24	119.54	59.77	144.01	
48.00	18.0	116.53	10.48	127.01	63.50	147.96	
50.00	18.0	121.29	9.98	131.26	65.63	151.22	
52.00	18.0	123.13	6.96	130.09	65.04	144.00	
54.00	18.0	128.25	9.49	137.74	68.87	156.73	
56.00	18.0	133.90	8.94	142.84	71.42	160.73	
58.00	18.0	133.99	9.33	143.33	71.66	161.99	
60.00	18.0	135.80	9.34	145.14	72.57	163.82	
62.00	18.0	140.40	11.37	151.77	75.88	174.50	
64.00	18.0	149.76	25.80	175.56	87.78	227.17	
66.00	18.0	159.66	59.79	219.45	109.72	339.02	
68.00	18.0	180.24	77.83	258.06	129.03	413.72	
70.00	18.0	191.04	87.41	278.45	139.22	453.27	
72.00	18.0	198.24	80.78	279.02	139.51	440.58	
74.00	18.0	207.35	74.13	281.48	140.74	429.73	
76.00	18.0	219.78	58.70	278.48	139.24	395.88	
78.00	18.0	229.07	84.04	313.11	156.55	481.19	
80.00	18.0	238.75	100.31	339.06	169.53	539.67	
82.00	18.0	253.00	104.52	357.52	178.76	566.56	
84.00	18.0	265.72	110.22	375.94	187.97	596.37	
86.00	18.0	276.31	101.65	377.95	188.98	581.25	
88.00	18.0	***** Not enough soil data *****					
90.00	18.0	0.00	0.00	0.00	0.00	0.00	
92.00	18.0	0.00	0.00	0.00	0.00	0.00	
94.00	18.0	0.00	0.00	0.00	0.00	0.00	

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
  4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B33\_18&24PCP.spc  
 Project number: H135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJL  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 10-15-13, Boring Number: WL2-B33  
 Station number: 817+08 Offset: 68 LT

Ground Elevation: 33.300(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	3.00	3- Clean sand
2	2.00	3.00	3- Clean sand
3	3.00	3.00	2- Clay and silty sand
4	4.00	10.00	3- Clean sand
5	6.00	6.00	3- Clean sand
6	8.00	6.00	2- Clay and silty sand
7	10.00	2.00	3- Clean sand
8	11.25	2.00	2- Clay and silty sand
9	12.50	6.00	3- Clean sand
10	15.00	11.00	3- Clean sand
11	17.50	2.00	5- Cavity layer
12	20.00	22.00	2- Clay and silty sand
13	22.50	19.00	2- Clay and silty sand
14	25.00	16.00	2- Clay and silty sand
15	26.25	10.00	3- Clean sand
16	27.50	10.00	2- Clay and silty sand
17	30.00	6.00	2- Clay and silty sand

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18	32.50	6.00	2- Clay and silty sand
19	35.00	5.00	2- Clay and silty sand
20	37.50	5.00	2- Clay and silty sand
21	38.75	2.00	3- Clean sand
22	40.00	2.00	2- Clay and silty sand
23	42.50	4.00	2- Clay and silty sand
24	43.75	4.00	3- Clean sand
25	45.00	14.00	2- Clay and silty sand
26	47.50	16.00	2- Clay and silty sand
27	50.00	16.00	2- Clay and silty sand
28	52.50	16.00	2- Clay and silty sand
29	53.75	5.00	3- Clean sand
30	55.00	5.00	2- Clay and silty sand
31	57.50	8.00	2- Clay and silty sand
32	60.00	14.00	2- Clay and silty sand
33	62.50	20.00	1- Plastic Clay
34	63.75	20.00	2- Clay and silty sand
35	65.00	99.00	1- Plastic Clay
36	66.25	24.00	2- Clay and silty sand
37	67.50	24.00	1- Plastic Clay
38	70.00	99.00	4- Lime Stone/Very shelly sand
39	72.50	8.00	2- Clay and silty sand
40	75.00	99.00	4- Lime Stone/Very shelly sand
41	77.50	44.00	2- Clay and silty sand
42	80.00	99.00	2- Clay and silty sand
43	82.50	99.00	4- Lime Stone/Very shelly sand
44	85.00	99.00	4- Lime Stone/Very shelly sand
45	87.50	37.00	2- Clay and silty sand
46	88.75	37.00	3- Clean sand
47	90.00	99.00	2- Clay and silty sand
48	92.50	99.00	2- Clay and silty sand
49	95.00	99.00	2- Clay and silty sand
50	96.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	33.30	30.30	3.00	3.00	3-Clean Sand
2	30.30	29.30	1.00	3.00	2-Clay and Silty Sand
3	29.30	25.30	4.00	8.00	3-Clean Sand
4	25.30	23.30	2.00	6.00	2-Clay and Silty Sand

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5	23.30	22.05	1.25	2.00	3-Clean Sand
6	22.05	20.80	1.25	2.00	2-Clay and Silty Sand
7	20.80	15.80	5.00	8.50	3-Clean Sand
8	15.80	13.30	2.50	2.00	5-Void
9	13.30	7.05	6.25	19.60	2-Clay and Silty Sand
10	7.05	5.80	1.25	10.00	3-Clean Sand
11	5.80	-5.45	11.25	6.56	2-Clay and Silty Sand
12	-5.45	-6.70	1.25	2.00	3-Clean Sand
13	-6.70	-10.45	3.75	2.67	2-Clay and Silty Sand
14	-10.45	-11.70	1.25	4.00	3-Clean Sand
15	-11.70	-20.45	8.75	15.43	2-Clay and Silty Sand
16	-20.45	-21.70	1.25	5.00	3-Clean Sand
17	-21.70	-29.20	7.50	9.00	2-Clay and Silty Sand
18	-29.20	-30.45	1.25	20.00	1-Plastic Clay
19	-30.45	-31.70	1.25	20.00	2-Clay and Silty Sand
20	-31.70	-32.95	1.25	99.00	1-Plastic Clay
21	-32.95	-34.20	1.25	24.00	2-Clay and Silty Sand
22	-34.20	-36.70	2.50	24.00	1-Plastic Clay
23	-36.70	-39.20	2.50	99.00	4-Limestone, Very
Shelly Sand					
24	-39.20	-41.70	2.50	8.00	2-Clay and Silty Sand
25	-41.70	-44.20	2.50	99.00	4-Limestone, Very
Shelly Sand					
26	-44.20	-49.20	5.00	71.50	2-Clay and Silty Sand
27	-49.20	-54.20	5.00	99.00	4-Limestone, Very
Shelly Sand					
28	-54.20	-55.45	1.25	37.00	2-Clay and Silty Sand
29	-55.45	-56.70	1.25	37.00	3-Clean Sand
30	-56.70	-62.70	6.00	99.00	2-Clay and Silty Sand
31	-62.70	-62.70	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	23.30
18.00	12.00	21.30
18.00	14.00	19.30
18.00	16.00	17.30
18.00	18.00	15.30
18.00	20.00	13.30
18.00	22.00	11.30

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18.00	24.00	9.30
18.00	26.00	7.30
18.00	28.00	5.30
18.00	30.00	3.30
18.00	32.00	1.30
18.00	34.00	-0.70
18.00	36.00	-2.70
18.00	38.00	-4.70
18.00	40.00	-6.70
18.00	42.00	-8.70
18.00	44.00	-10.70
18.00	46.00	-12.70
18.00	48.00	-14.70
18.00	50.00	-16.70
18.00	52.00	-18.70
18.00	54.00	-20.70
18.00	56.00	-22.70
18.00	58.00	-24.70
18.00	60.00	-26.70
18.00	62.00	-28.70
18.00	64.00	-30.70
18.00	66.00	-32.70
18.00	68.00	-34.70
18.00	70.00	-36.70
18.00	72.00	-38.70
18.00	74.00	-40.70
18.00	76.00	-42.70
18.00	78.00	-44.70
18.00	80.00	-46.70
18.00	82.00	-48.70
18.00	84.00	-50.70
18.00	86.00	-52.70
18.00	88.00	-54.70
18.00	90.00	-56.70
18.00	92.00	-58.70
18.00	94.00	-60.70

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
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WL2-B33\_18-PCP.txt

10.00	18.0	7.81	12.74	20.55	10.27	46.02
12.00	18.0	8.00	14.74	22.74	11.37	52.21
14.00	18.0	9.93	14.53	24.45	12.23	53.51
16.00	18.0	12.14	15.38	27.51	13.76	58.27
18.00	18.0	13.59	0.00	13.59	6.79	13.59
20.00	18.0	20.68	20.93	41.60	20.80	83.45
22.00	18.0	31.52	21.32	52.84	26.42	95.49
24.00	18.0	42.02	21.33	63.35	31.68	106.02
26.00	18.0	50.62	18.88	69.50	34.75	107.26
28.00	18.0	55.24	10.48	65.72	32.86	86.69
30.00	18.0	60.38	10.20	70.58	35.29	90.99
32.00	18.0	64.37	9.26	73.63	36.82	92.15
34.00	18.0	68.23	7.94	76.16	38.08	92.04
36.00	18.0	71.66	6.21	77.87	38.94	90.29
38.00	18.0	74.86	4.64	79.50	39.75	88.79
40.00	18.0	75.24	5.43	80.67	40.34	91.54
42.00	18.0	75.24	6.54	81.78	40.89	94.85
44.00	18.0	75.34	12.07	87.41	43.71	111.55
46.00	18.0	81.97	13.86	95.83	47.91	123.55
48.00	18.0	90.05	14.73	104.78	52.39	134.24
50.00	18.0	99.65	14.70	114.36	57.18	143.77
52.00	18.0	109.43	14.12	123.55	61.78	151.80
54.00	18.0	115.95	11.47	127.42	63.71	150.36
56.00	18.0	119.01	16.32	135.33	67.66	167.97
58.00	18.0	123.51	16.98	140.49	70.25	174.46
60.00	18.0	129.65	19.14	148.79	74.39	187.07
62.00	18.0	138.87	21.74	160.61	80.31	204.10
64.00	18.0	153.10	27.21	180.31	90.15	234.74
66.00	18.0	167.52	43.08	210.61	105.30	296.78
68.00	18.0	182.04	52.59	234.63	117.31	339.80
70.00	18.0	192.14	90.30	282.44	141.22	463.03
72.00	18.0	198.07	92.09	290.16	145.08	474.34
74.00	18.0	204.04	75.82	279.86	139.93	431.51
76.00	18.0	212.06	78.17	290.23	145.12	446.56
78.00	18.0	225.99	85.71	311.70	155.85	483.12
80.00	18.0	240.51	99.65	340.15	170.08	539.44
82.00	18.0	251.03	109.05	360.08	180.04	578.19
84.00	18.0	261.47	106.92	368.39	184.20	582.23
86.00	18.0	269.49	101.12	370.61	185.31	572.85
88.00	18.0	282.81	72.84	355.65	177.82	501.34
90.00	18.0	295.46	71.57	367.03	183.52	510.18
92.00	18.0	*****	Not enough soil data	*****		
94.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.

WL2-B33\_18-PCP.txt

2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B34\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 9-24-13, Boring Number: WL2-B34  
 Station number: 817+11 Offset: 68 RT

Ground Elevation: 35.500(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	9.00	3- Clean sand
2	6.00	9.00	2- Clay and silty sand
3	8.00	8.00	2- Clay and silty sand
4	10.00	8.00	3- Clean sand
5	12.50	6.00	3- Clean sand
6	15.00	6.00	3- Clean sand
7	16.25	4.00	2- Clay and silty sand
8	17.50	4.00	3- Clean sand
9	20.00	4.00	3- Clean sand
10	22.50	9.00	2- Clay and silty sand
11	25.00	14.00	2- Clay and silty sand
12	27.50	10.00	2- Clay and silty sand
13	30.00	5.00	2- Clay and silty sand
14	32.50	5.00	2- Clay and silty sand
15	35.00	7.00	2- Clay and silty sand
16	36.25	4.00	3- Clean sand
17	37.50	4.00	2- Clay and silty sand

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18	38.75	4.00	3- Clean sand
19	40.00	7.00	2- Clay and silty sand
20	42.50	10.00	2- Clay and silty sand
21	45.00	12.00	2- Clay and silty sand
22	47.50	18.00	2- Clay and silty sand
23	50.00	6.00	2- Clay and silty sand
24	52.50	10.00	2- Clay and silty sand
25	55.00	16.00	2- Clay and silty sand
26	57.50	6.00	2- Clay and silty sand
27	60.00	11.00	2- Clay and silty sand
28	61.25	11.00	3- Clean sand
29	62.50	25.00	2- Clay and silty sand
30	63.75	25.00	3- Clean sand
31	65.00	50.00	2- Clay and silty sand
32	67.50	99.00	2- Clay and silty sand
33	70.00	99.00	2- Clay and silty sand
34	72.50	99.00	2- Clay and silty sand
35	75.00	41.00	2- Clay and silty sand
36	77.50	99.00	2- Clay and silty sand
37	80.00	99.00	4- Lime Stone/Very shelly sand
38	82.50	99.00	2- Clay and silty sand
39	85.00	51.00	2- Clay and silty sand
40	86.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	35.50	29.50	6.00	9.00	3-Clean Sand
2	29.50	25.50	4.00	8.50	2-Clay and Silty Sand
3	25.50	19.25	6.25	6.80	3-Clean Sand
4	19.25	18.00	1.25	4.00	2-Clay and Silty Sand
5	18.00	13.00	5.00	4.00	3-Clean Sand
6	13.00	-0.75	13.75	8.45	2-Clay and Silty Sand
7	-0.75	-2.00	1.25	4.00	3-Clean Sand
8	-2.00	-3.25	1.25	4.00	2-Clay and Silty Sand
9	-3.25	-4.50	1.25	4.00	3-Clean Sand
10	-4.50	-25.75	21.25	10.65	2-Clay and Silty Sand
11	-25.75	-27.00	1.25	11.00	3-Clean Sand
12	-27.00	-28.25	1.25	25.00	2-Clay and Silty Sand
13	-28.25	-29.50	1.25	25.00	3-Clean Sand
14	-29.50	-44.50	15.00	81.17	2-Clay and Silty Sand

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15	-44.50	-47.00	2.50	99.00	4-Limestone, Very
Shelly Sand					
16	-47.00	-50.50	3.50	85.29	2-Clay and Silty Sand
17	-50.50	-50.50	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	25.50
18.00	12.00	23.50
18.00	14.00	21.50
18.00	16.00	19.50
18.00	18.00	17.50
18.00	20.00	15.50
18.00	22.00	13.50
18.00	24.00	11.50
18.00	26.00	9.50
18.00	28.00	7.50
18.00	30.00	5.50
18.00	32.00	3.50
18.00	34.00	1.50
18.00	36.00	-0.50
18.00	38.00	-2.50
18.00	40.00	-4.50
18.00	42.00	-6.50
18.00	44.00	-8.50
18.00	46.00	-10.50
18.00	48.00	-12.50
18.00	50.00	-14.50
18.00	52.00	-16.50
18.00	54.00	-18.50
18.00	56.00	-20.50
18.00	58.00	-22.50
18.00	60.00	-24.50
18.00	62.00	-26.50
18.00	64.00	-28.50
18.00	66.00	-30.50
18.00	68.00	-32.50
18.00	70.00	-34.50
18.00	72.00	-36.50
18.00	74.00	-38.50

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18.00	76.00	-40.50
18.00	78.00	-42.50
18.00	80.00	-44.50
18.00	82.00	-46.50
18.00	84.00	-48.50

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
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10.00	18.0	21.70	18.67	40.37	20.18	77.71
12.00	18.0	23.73	15.54	39.28	19.64	70.36
14.00	18.0	25.44	11.57	37.01	18.51	60.15
16.00	18.0	26.80	8.76	35.56	17.78	53.09
18.00	18.0	26.82	9.27	36.10	18.05	54.64
20.00	18.0	26.82	10.05	36.88	18.44	56.98
22.00	18.0	28.59	11.36	39.95	19.98	62.68
24.00	18.0	35.36	12.52	47.88	23.94	72.93
26.00	18.0	43.31	10.43	53.74	26.87	74.60
28.00	18.0	50.04	8.97	59.01	29.51	76.96
30.00	18.0	54.60	9.62	64.22	32.11	83.47
32.00	18.0	57.97	9.22	67.19	33.59	85.63
34.00	18.0	61.62	8.01	69.62	34.81	85.63
36.00	18.0	65.18	7.81	72.99	36.49	88.61
38.00	18.0	65.23	8.59	73.83	36.91	91.02
40.00	18.0	66.67	10.46	77.13	38.57	98.05
42.00	18.0	71.24	11.15	82.39	41.20	104.69
44.00	18.0	76.38	13.03	89.41	44.71	115.47
46.00	18.0	83.78	13.73	97.51	48.75	124.97
48.00	18.0	92.97	13.20	106.17	53.09	132.58
50.00	18.0	99.52	15.47	114.99	57.49	145.92
52.00	18.0	104.58	17.10	121.68	60.84	155.89
54.00	18.0	111.53	16.44	127.97	63.98	160.86
56.00	18.0	119.97	16.87	136.85	68.42	170.60
58.00	18.0	125.32	21.62	146.94	73.47	190.17
60.00	18.0	131.08	31.77	162.86	81.43	226.40
62.00	18.0	138.67	37.91	176.58	88.29	252.41
64.00	18.0	148.76	47.63	196.40	98.20	291.66
66.00	18.0	162.45	50.90	213.35	106.68	315.15
68.00	18.0	176.50	53.69	230.19	115.10	337.57
70.00	18.0	190.44	58.74	249.17	124.59	366.65

WL2-B34_18-PCP.txt						
72.00	18.0	205.48	64.21	269.69	134.85	398.12
74.00	18.0	221.20	73.37	294.57	147.28	441.32
76.00	18.0	236.94	89.38	326.32	163.16	505.08
78.00	18.0	252.45	92.04	344.49	172.25	528.58
80.00	18.0	267.45	86.04	353.50	176.75	525.58
82.00	18.0	***** Not enough soil data *****				
84.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
  4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B35\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 10-17-13, Boring Number: WL2-B35  
 Station number: 818+32 Offset: 131 LT

Ground Elevation: 32.200(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	2.00	3- Clean sand
2	2.00	2.00	3- Clean sand
3	4.00	4.00	3- Clean sand
4	6.00	3.00	2- Clay and silty sand
5	7.00	3.00	3- Clean sand
6	8.00	5.00	2- Clay and silty sand
7	10.00	4.00	3- Clean sand
8	12.50	3.00	2- Clay and silty sand
9	15.00	2.00	5- Cavity layer
10	17.50	11.00	5- Cavity layer
11	20.00	4.00	2- Clay and silty sand
12	21.25	4.00	3- Clean sand
13	22.50	8.00	2- Clay and silty sand
14	25.00	10.00	2- Clay and silty sand
15	27.50	9.00	2- Clay and silty sand
16	28.75	4.00	3- Clean sand
17	30.00	4.00	2- Clay and silty sand



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18	32.50	3.00	2- Clay and silty sand
19	33.75	3.00	3- Clean sand
20	35.00	5.00	2- Clay and silty sand
21	37.50	5.00	2- Clay and silty sand
22	38.75	1.00	3- Clean sand
23	40.00	1.00	2- Clay and silty sand
24	42.50	4.00	2- Clay and silty sand
25	43.75	4.00	3- Clean sand
26	45.00	12.00	2- Clay and silty sand
27	47.50	10.00	2- Clay and silty sand
28	50.00	9.00	2- Clay and silty sand
29	52.50	10.00	2- Clay and silty sand
30	55.00	7.00	2- Clay and silty sand
31	57.50	7.00	2- Clay and silty sand
32	60.00	15.00	2- Clay and silty sand
33	62.50	16.00	1- Plastic Clay
34	65.00	15.00	1- Plastic Clay
35	67.50	19.00	1- Plastic Clay
36	70.00	44.00	2- Clay and silty sand
37	71.25	27.00	3- Clean sand
38	72.50	27.00	2- Clay and silty sand
39	73.75	27.00	3- Clean sand
40	75.00	99.00	2- Clay and silty sand
41	77.50	26.00	2- Clay and silty sand
42	80.00	99.00	4- Lime Stone/Very shelly sand
43	82.50	50.00	1- Plastic Clay
44	85.00	99.00	2- Clay and silty sand
45	87.50	99.00	4- Lime Stone/Very shelly sand
46	90.00	99.00	4- Lime Stone/Very shelly sand
47	92.50	99.00	2- Clay and silty sand
48	95.00	51.00	2- Clay and silty sand
49	97.50	99.00	2- Clay and silty sand
50	100.00	99.00	2- Clay and silty sand
51	101.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	32.20	26.20	6.00	2.67	3-Clean Sand
2	26.20	25.20	1.00	3.00	2-Clay and Silty Sand
3	25.20	24.20	1.00	3.00	3-Clean Sand

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4	24.20	22.20	2.00	5.00	2-Clay and Silty Sand
5	22.20	19.70	2.50	4.00	3-Clean Sand
6	19.70	17.20	2.50	3.00	2-Clay and Silty Sand
7	17.20	12.20	5.00	6.50	5-Void
8	12.20	10.95	1.25	4.00	2-Clay and Silty Sand
9	10.95	9.70	1.25	4.00	3-Clean Sand
10	9.70	3.45	6.25	9.00	2-Clay and Silty Sand
11	3.45	2.20	1.25	4.00	3-Clean Sand
12	2.20	-1.55	3.75	3.67	2-Clay and Silty Sand
13	-1.55	-2.80	1.25	3.00	3-Clean Sand
14	-2.80	-6.55	3.75	5.00	2-Clay and Silty Sand
15	-6.55	-7.80	1.25	1.00	3-Clean Sand
16	-7.80	-11.55	3.75	2.00	2-Clay and Silty Sand
17	-11.55	-12.80	1.25	4.00	3-Clean Sand
18	-12.80	-30.30	17.50	10.00	2-Clay and Silty Sand
19	-30.30	-37.80	7.50	16.67	1-Plastic Clay
20	-37.80	-39.05	1.25	44.00	2-Clay and Silty Sand
21	-39.05	-40.30	1.25	27.00	3-Clean Sand
22	-40.30	-41.55	1.25	27.00	2-Clay and Silty Sand
23	-41.55	-42.80	1.25	27.00	3-Clean Sand
24	-42.80	-47.80	5.00	62.50	2-Clay and Silty Sand
25	-47.80	-50.30	2.50	99.00	4-Limestone, Very
Shelly Sand					
26	-50.30	-52.80	2.50	50.00	1-Plastic Clay
27	-52.80	-55.30	2.50	99.00	2-Clay and Silty Sand
28	-55.30	-60.30	5.00	99.00	4-Limestone, Very
Shelly Sand					
29	-60.30	-68.80	8.50	84.88	2-Clay and Silty Sand
30	-68.80	-68.80	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	22.20
18.00	12.00	20.20
18.00	14.00	18.20
18.00	16.00	16.20
18.00	18.00	14.20
18.00	20.00	12.20
18.00	22.00	10.20
18.00	24.00	8.20

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18.00	26.00	6.20
18.00	28.00	4.20
18.00	30.00	2.20
18.00	32.00	0.20
18.00	34.00	-1.80
18.00	36.00	-3.80
18.00	38.00	-5.80
18.00	40.00	-7.80
18.00	42.00	-9.80
18.00	44.00	-11.80
18.00	46.00	-13.80
18.00	48.00	-15.80
18.00	50.00	-17.80
18.00	52.00	-19.80
18.00	54.00	-21.80
18.00	56.00	-23.80
18.00	58.00	-25.80
18.00	60.00	-27.80
18.00	62.00	-29.80
18.00	64.00	-31.80
18.00	66.00	-33.80
18.00	68.00	-35.80
18.00	70.00	-37.80
18.00	72.00	-39.80
18.00	74.00	-41.80
18.00	76.00	-43.80
18.00	78.00	-45.80
18.00	80.00	-47.80
18.00	82.00	-49.80
18.00	84.00	-51.80
18.00	86.00	-53.80
18.00	88.00	-55.80
18.00	90.00	-57.80
18.00	92.00	-59.80
18.00	94.00	-61.80
18.00	96.00	-63.80
18.00	98.00	-65.80
18.00	100.00	-67.80

Driven Pile Capacity:

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Test Pile Length	Pile Width	Ultimate Side Friction	Mobilized End Bearing	Estimated Davisson Capacity	Allowable Pile Capacity	Ultimate Pile Capacity
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(ft)	(in)	(tons)	(tons)	(tons)	(tons)	(tons)
10.00	18.0	2.53	0.56	3.09	1.54	4.20
12.00	18.0	2.53	0.00	2.53	1.26	2.53
14.00	18.0	2.53	0.47	2.99	1.50	3.92
16.00	18.0	2.53	0.00	2.53	1.26	2.53
18.00	18.0	2.53	0.00	2.53	1.26	2.53
20.00	18.0	2.53	4.56	7.09	3.54	16.21
22.00	18.0	3.05	6.07	9.12	4.56	21.25
24.00	18.0	8.31	6.63	14.94	7.47	28.21
26.00	18.0	14.47	5.09	19.56	9.78	29.73
28.00	18.0	20.09	3.69	23.78	11.89	31.15
30.00	18.0	20.74	4.15	24.88	12.44	33.18
32.00	18.0	20.74	4.62	25.36	12.68	34.59
34.00	18.0	20.78	6.06	26.84	13.42	38.97
36.00	18.0	23.48	4.43	27.90	13.95	36.75
38.00	18.0	26.68	2.47	29.14	14.57	34.07
40.00	18.0	27.06	2.77	29.83	14.91	35.37
42.00	18.0	27.06	3.77	30.83	15.41	38.37
44.00	18.0	27.15	8.19	35.34	17.67	51.72
46.00	18.0	32.84	9.28	42.11	21.06	60.66
48.00	18.0	38.81	9.70	48.51	24.25	67.90
50.00	18.0	44.51	10.15	54.66	27.33	74.96
52.00	18.0	50.35	10.75	61.10	30.55	82.61
54.00	18.0	56.30	11.95	68.25	34.12	92.15
56.00	18.0	61.13	14.54	75.66	37.83	104.74
58.00	18.0	65.88	14.55	80.43	40.22	109.54
60.00	18.0	73.03	13.28	86.31	43.15	112.87
62.00	18.0	82.57	12.34	94.91	47.46	119.60
64.00	18.0	93.14	13.95	107.08	53.54	134.97
66.00	18.0	101.15	26.05	127.20	63.60	179.30
68.00	18.0	112.82	34.64	147.46	73.73	216.75
70.00	18.0	130.98	43.20	174.18	87.09	260.57
72.00	18.0	141.81	64.57	206.37	103.19	335.50
74.00	18.0	152.49	49.79	202.29	101.14	301.88
76.00	18.0	165.57	62.15	227.72	113.86	352.03
78.00	18.0	177.31	66.84	244.16	122.08	377.84
80.00	18.0	189.49	71.12	260.62	130.31	402.87
82.00	18.0	200.10	72.64	272.75	136.37	418.03
84.00	18.0	218.19	82.77	300.96	150.48	466.50
86.00	18.0	232.99	108.81	341.80	170.90	559.43
88.00	18.0	242.39	108.38	350.78	175.39	567.54
90.00	18.0	249.59	100.64	350.23	175.11	551.50
92.00	18.0	260.20	91.46	351.66	175.83	534.58
94.00	18.0	275.69	72.00	347.69	173.85	491.69
96.00	18.0	*****	Not enough soil data	*****		
98.00	18.0	0.00	0.00	0.00	0.00	0.00
100.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSEON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSEON PILE CAPACITY.
  4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B36\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 10-15-13, Boring Number: WL2-B36  
 Station number: 818+26 Offset: 13 LT

Ground Elevation: 33.400(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	10.00	3- Clean sand
2	2.00	10.00	3- Clean sand
3	4.00	14.00	3- Clean sand
4	6.00	7.00	2- Clay and silty sand
5	8.00	6.00	2- Clay and silty sand
6	10.00	7.00	3- Clean sand
7	11.25	2.00	2- Clay and silty sand
8	12.50	2.00	3- Clean sand
9	15.00	2.00	2- Clay and silty sand
10	17.50	2.00	5- Cavity layer
11	20.00	26.00	3- Clean sand
12	22.50	5.00	2- Clay and silty sand
13	25.00	13.00	2- Clay and silty sand
14	27.50	11.00	2- Clay and silty sand
15	30.00	7.00	2- Clay and silty sand
16	32.50	7.00	2- Clay and silty sand
17	35.00	5.00	2- Clay and silty sand

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18	37.50	6.00	2- Clay and silty sand
19	40.00	9.00	2- Clay and silty sand
20	42.50	7.00	2- Clay and silty sand
21	43.75	7.00	3- Clean sand
22	45.00	20.00	2- Clay and silty sand
23	47.50	15.00	2- Clay and silty sand
24	50.00	20.00	3- Clean sand
25	52.50	0.00	2- Clay and silty sand
26	53.75	0.00	3- Clean sand
27	55.00	12.00	2- Clay and silty sand
28	57.50	6.00	1- Plastic Clay
29	60.00	8.00	1- Plastic Clay
30	62.50	13.00	1- Plastic Clay
31	63.75	13.00	2- Clay and silty sand
32	65.00	23.00	1- Plastic Clay
33	67.50	99.00	2- Clay and silty sand
34	70.00	99.00	2- Clay and silty sand
35	72.50	99.00	4- Lime Stone/Very shelly sand
36	75.00	99.00	4- Lime Stone/Very shelly sand
37	77.50	99.00	4- Lime Stone/Very shelly sand
38	80.00	99.00	2- Clay and silty sand
39	82.50	99.00	4- Lime Stone/Very shelly sand
40	85.00	99.00	4- Lime Stone/Very shelly sand
41	86.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	33.40	27.40	6.00	11.33	3-Clean Sand
2	27.40	23.40	4.00	6.50	2-Clay and Silty Sand
3	23.40	22.15	1.25	7.00	3-Clean Sand
4	22.15	20.90	1.25	2.00	2-Clay and Silty Sand
5	20.90	18.40	2.50	2.00	3-Clean Sand
6	18.40	15.90	2.50	2.00	2-Clay and Silty Sand
7	15.90	13.40	2.50	2.00	5-Void
8	13.40	10.90	2.50	26.00	3-Clean Sand
9	10.90	-10.35	21.25	7.82	2-Clay and Silty Sand
10	-10.35	-11.60	1.25	7.00	3-Clean Sand
11	-11.60	-16.60	5.00	17.50	2-Clay and Silty Sand
12	-16.60	-19.10	2.50	20.00	3-Clean Sand
13	-19.10	-20.35	1.25	0.00	2-Clay and Silty Sand

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14	-20.35	-21.60	1.25	0.00	3-Clean Sand
15	-21.60	-24.10	2.50	12.00	2-Clay and Silty Sand
16	-24.10	-30.35	6.25	8.20	1-Plastic Clay
17	-30.35	-31.60	1.25	13.00	2-Clay and Silty Sand
18	-31.60	-34.10	2.50	23.00	1-Plastic Clay
19	-34.10	-39.10	5.00	99.00	2-Clay and Silty Sand
20	-39.10	-46.60	7.50	99.00	4-Limestone, Very
Shelly Sand					
21	-46.60	-49.10	2.50	99.00	2-Clay and Silty Sand
22	-49.10	-52.60	3.50	99.00	4-Limestone, Very
Shelly Sand					
23	-52.60	-52.60	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	23.40
18.00	12.00	21.40
18.00	14.00	19.40
18.00	16.00	17.40
18.00	18.00	15.40
18.00	20.00	13.40
18.00	22.00	11.40
18.00	24.00	9.40
18.00	26.00	7.40
18.00	28.00	5.40
18.00	30.00	3.40
18.00	32.00	1.40
18.00	34.00	-0.60
18.00	36.00	-2.60
18.00	38.00	-4.60
18.00	40.00	-6.60
18.00	42.00	-8.60
18.00	44.00	-10.60
18.00	46.00	-12.60
18.00	48.00	-14.60
18.00	50.00	-16.60
18.00	52.00	-18.60
18.00	54.00	-20.60
18.00	56.00	-22.60
18.00	58.00	-24.60



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18.00	60.00	-26.60
18.00	62.00	-28.60
18.00	64.00	-30.60
18.00	66.00	-32.60
18.00	68.00	-34.60
18.00	70.00	-36.60
18.00	72.00	-38.60
18.00	74.00	-40.60
18.00	76.00	-42.60
18.00	78.00	-44.60
18.00	80.00	-46.60
18.00	82.00	-48.60
18.00	84.00	-50.60

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	17.79	12.85	30.64	15.32	56.33
12.00	18.0	18.41	0.00	18.41	9.20	18.41
14.00	18.0	18.41	10.11	28.52	14.26	48.75
16.00	18.0	18.41	17.97	36.38	18.19	72.31
18.00	18.0	18.59	0.00	18.59	9.30	18.59
20.00	18.0	23.00	19.56	42.56	21.28	81.67
22.00	18.0	28.76	16.42	45.18	22.59	78.03
24.00	18.0	33.25	13.75	47.01	23.50	74.51
26.00	18.0	40.62	14.36	54.97	27.49	83.69
28.00	18.0	47.68	13.45	61.13	30.56	88.02
30.00	18.0	53.20	12.22	65.42	32.71	89.87
32.00	18.0	57.80	11.33	69.13	34.57	91.79
34.00	18.0	62.13	11.07	73.20	36.60	95.33
36.00	18.0	65.68	11.67	77.36	38.68	100.71
38.00	18.0	69.58	11.55	81.13	40.57	104.23
40.00	18.0	74.65	13.50	88.15	44.07	115.15
42.00	18.0	79.95	16.09	96.04	48.02	128.22
44.00	18.0	83.54	19.33	102.87	51.44	141.54
46.00	18.0	92.19	23.74	115.93	57.96	163.41
48.00	18.0	101.66	23.65	125.31	62.65	172.61
50.00	18.0	108.85	17.11	125.96	62.98	160.19
52.00	18.0	111.58	17.79	129.37	64.68	164.95
54.00	18.0	112.47	16.79	129.26	64.63	162.83

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56.00	18.0	118.12	15.22	133.33	66.67	163.77
58.00	18.0	123.36	5.38	128.74	64.37	139.49
60.00	18.0	127.73	7.67	135.40	67.70	150.74
62.00	18.0	134.33	15.51	149.83	74.92	180.84
64.00	18.0	144.47	26.53	170.99	85.50	224.04
66.00	18.0	156.28	36.39	192.66	96.33	265.44
68.00	18.0	172.39	57.44	229.83	114.92	344.71
70.00	18.0	183.30	68.67	251.97	125.99	389.32
72.00	18.0	191.72	92.19	283.91	141.96	468.30
74.00	18.0	207.95	108.08	316.03	158.02	532.20
76.00	18.0	215.03	108.67	323.70	161.85	541.05
78.00	18.0	221.29	115.10	336.39	168.20	566.60
80.00	18.0	235.07	139.61	374.67	187.34	653.89
82.00	18.0	***** Not enough soil data *****				
84.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

- 
1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
  4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B37\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJI  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 10-18-13, Boring Number: WL2-B37  
 Station number: 819+38 Offset: 61 LT

Ground Elevation: 32.100(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	2.00	3- Clean sand
2	2.00	2.00	3- Clean sand
3	4.00	4.00	3- Clean sand
4	5.00	4.00	2- Clay and silty sand
5	6.00	5.00	3- Clean sand
6	8.00	9.00	3- Clean sand
7	10.00	14.00	3- Clean sand
8	12.50	4.00	2- Clay and silty sand
9	15.00	0.00	2- Clay and silty sand
10	17.50	3.00	5- Cavity layer
11	20.00	5.00	2- Clay and silty sand
12	22.50	12.00	2- Clay and silty sand
13	25.00	7.00	2- Clay and silty sand
14	27.50	5.00	2- Clay and silty sand
15	28.75	3.00	3- Clean sand
16	30.00	3.00	2- Clay and silty sand
17	31.25	3.00	3- Clean sand

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18	32.50	5.00	2- Clay and silty sand
19	35.00	4.00	2- Clay and silty sand
20	37.50	3.00	3- Clean sand
21	38.75	3.00	2- Clay and silty sand
22	40.00	6.00	3- Clean sand
23	42.50	14.00	3- Clean sand
24	43.75	14.00	2- Clay and silty sand
25	45.00	27.00	3- Clean sand
26	47.50	30.00	3- Clean sand
27	50.00	16.00	2- Clay and silty sand
28	52.50	14.00	2- Clay and silty sand
29	53.75	4.00	3- Clean sand
30	55.00	4.00	2- Clay and silty sand
31	56.25	4.00	3- Clean sand
32	57.50	7.00	2- Clay and silty sand
33	60.00	12.00	1- Plastic Clay
34	62.50	13.00	1- Plastic Clay
35	65.00	19.00	1- Plastic Clay
36	66.25	19.00	2- Clay and silty sand
37	67.50	34.00	1- Plastic Clay
38	68.75	34.00	2- Clay and silty sand
39	70.00	99.00	1- Plastic Clay
40	72.50	99.00	2- Clay and silty sand
41	75.00	99.00	2- Clay and silty sand
42	77.50	99.00	2- Clay and silty sand
43	80.00	99.00	2- Clay and silty sand
44	82.50	99.00	2- Clay and silty sand
45	85.00	99.00	2- Clay and silty sand
46	87.50	99.00	2- Clay and silty sand
47	88.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	32.10	27.10	5.00	2.40	3-Clean Sand
2	27.10	26.10	1.00	4.00	2-Clay and Silty Sand
3	26.10	19.60	6.50	9.69	3-Clean Sand
4	19.60	14.60	5.00	2.00	2-Clay and Silty Sand
5	14.60	12.10	2.50	3.00	5-Void
6	12.10	3.35	8.75	7.57	2-Clay and Silty Sand
7	3.35	2.10	1.25	3.00	3-Clean Sand

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8	2.10	0.85	1.25	3.00	2-Clay and Silty Sand
9	0.85	-0.40	1.25	3.00	3-Clean Sand
10	-0.40	-5.40	5.00	4.50	2-Clay and Silty Sand
11	-5.40	-6.65	1.25	3.00	3-Clean Sand
12	-6.65	-7.90	1.25	3.00	2-Clay and Silty Sand
13	-7.90	-11.65	3.75	8.67	3-Clean Sand
14	-11.65	-12.90	1.25	14.00	2-Clay and Silty Sand
15	-12.90	-17.90	5.00	28.50	3-Clean Sand
16	-17.90	-21.65	3.75	15.33	2-Clay and Silty Sand
17	-21.65	-22.90	1.25	4.00	3-Clean Sand
18	-22.90	-24.15	1.25	4.00	2-Clay and Silty Sand
19	-24.15	-25.40	1.25	4.00	3-Clean Sand
20	-25.40	-27.90	2.50	7.00	2-Clay and Silty Sand
21	-27.90	-34.15	6.25	13.80	1-Plastic Clay
22	-34.15	-35.40	1.25	19.00	2-Clay and Silty Sand
23	-35.40	-36.65	1.25	34.00	1-Plastic Clay
24	-36.65	-37.90	1.25	34.00	2-Clay and Silty Sand
25	-37.90	-40.40	2.50	99.00	1-Plastic Clay
26	-40.40	-55.90	15.50	99.00	2-Clay and Silty Sand
27	-55.90	-55.90	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	22.10
18.00	12.00	20.10
18.00	14.00	18.10
18.00	16.00	16.10
18.00	18.00	14.10
18.00	20.00	12.10
18.00	22.00	10.10
18.00	24.00	8.10
18.00	26.00	6.10
18.00	28.00	4.10
18.00	30.00	2.10
18.00	32.00	0.10
18.00	34.00	-1.90
18.00	36.00	-3.90
18.00	38.00	-5.90
18.00	40.00	-7.90
18.00	42.00	-9.90

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18.00	44.00	-11.90
18.00	46.00	-13.90
18.00	48.00	-15.90
18.00	50.00	-17.90
18.00	52.00	-19.90
18.00	54.00	-21.90
18.00	56.00	-23.90
18.00	58.00	-25.90
18.00	60.00	-27.90
18.00	62.00	-29.90
18.00	64.00	-31.90
18.00	66.00	-33.90
18.00	68.00	-35.90
18.00	70.00	-37.90
18.00	72.00	-39.90
18.00	74.00	-41.90
18.00	76.00	-43.90
18.00	78.00	-45.90
18.00	80.00	-47.90
18.00	82.00	-49.90
18.00	84.00	-51.90
18.00	86.00	-53.90
18.00	88.00	-55.90
18.00	90.00	-57.90

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
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10.00	18.0	5.58	10.84	16.42	8.21	38.10
12.00	18.0	7.96	7.18	15.14	7.57	29.50
14.00	18.0	8.06	0.12	8.18	4.09	8.42
16.00	18.0	8.06	1.22	9.28	4.64	11.72
18.00	18.0	8.14	0.00	8.14	4.07	8.14
20.00	18.0	10.16	12.03	22.19	11.10	46.26
22.00	18.0	15.15	9.64	24.79	12.39	44.06
24.00	18.0	21.83	6.47	28.30	14.15	41.24
26.00	18.0	26.59	5.22	31.81	15.91	42.25
28.00	18.0	30.07	5.29	35.36	17.68	45.93
30.00	18.0	30.45	5.61	36.06	18.03	47.29
32.00	18.0	30.83	5.15	35.98	17.99	46.29

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34.00	18.0	32.66	2.06	34.72	17.36	38.84
36.00	18.0	32.62	3.79	36.41	18.20	43.98
38.00	18.0	33.61	10.68	44.29	22.14	65.64
40.00	18.0	34.14	19.87	54.01	27.00	93.74
42.00	18.0	35.78	21.82	57.60	28.80	101.23
44.00	18.0	42.57	41.94	84.51	42.25	168.38
46.00	18.0	50.46	39.89	90.35	45.18	170.14
48.00	18.0	58.77	34.27	93.04	46.52	161.57
50.00	18.0	67.79	13.11	80.89	40.45	107.11
52.00	18.0	76.32	13.39	89.71	44.86	116.49
54.00	18.0	81.54	2.20	83.74	41.87	88.15
56.00	18.0	81.54	23.69	105.22	52.61	152.60
58.00	18.0	84.22	18.92	103.15	51.57	140.99
60.00	18.0	91.15	13.00	104.16	52.08	130.17
62.00	18.0	99.86	12.52	112.38	56.19	137.42
64.00	18.0	109.21	16.73	125.94	62.97	159.41
66.00	18.0	120.75	21.74	142.50	71.25	185.98
68.00	18.0	135.09	29.22	164.31	82.15	222.75
70.00	18.0	151.57	40.25	191.82	95.91	272.32
72.00	18.0	166.77	45.50	212.27	106.13	303.26
74.00	18.0	183.63	50.56	234.19	117.10	335.31
76.00	18.0	197.06	54.94	251.99	126.00	361.87
78.00	18.0	210.68	62.35	273.03	136.51	397.73
80.00	18.0	226.08	67.34	293.43	146.71	428.11
82.00	18.0	241.79	69.89	311.68	155.84	451.47
84.00	18.0	*****	Not enough soil data	*****		
86.00	18.0	0.00	0.00	0.00	0.00	0.00
88.00	18.0	0.00	0.00	0.00	0.00	0.00
90.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B38\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 9-25-13, Boring Number: WL2-B38  
 Station number: 819+28 Offset: 69 RT

Ground Elevation: 34.200(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	2.00	3- Clean sand
2	3.00	2.00	2- Clay and silty sand
3	6.00	10.00	3- Clean sand
4	8.00	8.00	3- Clean sand
5	10.00	10.00	3- Clean sand
6	12.50	7.00	3- Clean sand
7	15.00	6.00	3- Clean sand
8	16.25	4.00	2- Clay and silty sand
9	17.50	4.00	3- Clean sand
10	20.00	0.00	3- Clean sand
11	25.00	3.00	3- Clean sand
12	27.50	8.00	2- Clay and silty sand
13	30.00	8.00	2- Clay and silty sand
14	32.50	7.00	2- Clay and silty sand
15	35.00	5.00	2- Clay and silty sand
16	37.50	5.00	2- Clay and silty sand
17	40.00	8.00	2- Clay and silty sand



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18	42.50	7.00	2- Clay and silty sand
19	45.00	12.00	2- Clay and silty sand
20	47.50	14.00	2- Clay and silty sand
21	50.00	18.00	2- Clay and silty sand
22	52.50	12.00	2- Clay and silty sand
23	55.00	14.00	2- Clay and silty sand
24	57.50	6.00	2- Clay and silty sand
25	60.00	7.00	2- Clay and silty sand
26	62.50	9.00	2- Clay and silty sand
27	65.00	14.00	1- Plastic Clay
28	66.25	14.00	2- Clay and silty sand
29	67.50	40.00	1- Plastic Clay
30	70.00	99.00	1- Plastic Clay
31	72.50	99.00	1- Plastic Clay
32	75.00	99.00	2- Clay and silty sand
33	77.50	99.00	2- Clay and silty sand
34	80.00	50.00	2- Clay and silty sand
35	82.50	99.00	2- Clay and silty sand
36	85.00	99.00	2- Clay and silty sand
37	87.50	99.00	2- Clay and silty sand
38	90.00	42.00	2- Clay and silty sand
39	91.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	34.20	31.20	3.00	2.00	3-Clean Sand
2	31.20	28.20	3.00	2.00	2-Clay and Silty Sand
3	28.20	17.95	10.25	8.39	3-Clean Sand
4	17.95	16.70	1.25	4.00	2-Clay and Silty Sand
5	16.70	6.70	10.00	1.75	3-Clean Sand
6	6.70	-30.80	37.50	9.33	2-Clay and Silty Sand
7	-30.80	-32.05	1.25	14.00	1-Plastic Clay
8	-32.05	-33.30	1.25	14.00	2-Clay and Silty Sand
9	-33.30	-40.80	7.50	79.33	1-Plastic Clay
10	-40.80	-56.80	16.00	87.78	2-Clay and Silty Sand
11	-56.80	-56.80	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	24.20
18.00	12.00	22.20
18.00	14.00	20.20
18.00	16.00	18.20
18.00	18.00	16.20
18.00	20.00	14.20
18.00	22.00	12.20
18.00	24.00	10.20
18.00	26.00	8.20
18.00	28.00	6.20
18.00	30.00	4.20
18.00	32.00	2.20
18.00	34.00	0.20
18.00	36.00	-1.80
18.00	38.00	-3.80
18.00	40.00	-5.80
18.00	42.00	-7.80
18.00	44.00	-9.80
18.00	46.00	-11.80
18.00	48.00	-13.80
18.00	50.00	-15.80
18.00	52.00	-17.80
18.00	54.00	-19.80
18.00	56.00	-21.80
18.00	58.00	-23.80
18.00	60.00	-25.80
18.00	62.00	-27.80
18.00	64.00	-29.80
18.00	66.00	-31.80
18.00	68.00	-33.80
18.00	70.00	-35.80
18.00	72.00	-37.80
18.00	74.00	-39.80
18.00	76.00	-41.80
18.00	78.00	-43.80
18.00	80.00	-45.80
18.00	82.00	-47.80
18.00	84.00	-49.80
18.00	86.00	-51.80
18.00	88.00	-53.80
18.00	90.00	-55.80

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	6.91	17.82	24.73	12.37	60.38
12.00	18.0	9.70	15.21	24.91	12.45	55.33
14.00	18.0	11.63	13.03	24.66	12.33	50.71
16.00	18.0	13.02	11.26	24.28	12.14	46.79
18.00	18.0	13.04	9.58	22.62	11.31	41.78
20.00	18.0	13.04	7.36	20.40	10.20	35.12
22.00	18.0	13.04	6.26	19.30	9.65	31.83
24.00	18.0	13.04	6.33	19.37	9.69	32.04
26.00	18.0	13.56	6.73	20.29	10.15	33.75
28.00	18.0	17.59	6.52	24.11	12.06	37.16
30.00	18.0	22.56	6.65	29.21	14.61	42.50
32.00	18.0	27.24	6.90	34.14	17.07	47.94
34.00	18.0	31.22	7.65	38.87	19.44	54.18
36.00	18.0	34.77	9.00	43.77	21.88	61.77
38.00	18.0	38.22	10.20	48.42	24.21	68.82
40.00	18.0	42.69	11.32	54.00	27.00	76.64
42.00	18.0	47.63	12.80	60.43	30.22	86.03
44.00	18.0	52.87	14.87	67.73	33.87	97.47
46.00	18.0	60.04	16.96	77.01	38.50	110.93
48.00	18.0	68.22	17.84	86.06	43.03	121.74
50.00	18.0	77.67	18.38	96.05	48.02	132.80
52.00	18.0	86.73	17.88	104.61	52.31	140.37
54.00	18.0	94.42	16.73	111.15	55.57	144.61
56.00	18.0	102.27	15.70	117.97	58.99	149.38
58.00	18.0	107.29	15.42	122.71	61.36	153.55
60.00	18.0	111.67	14.69	126.36	63.18	155.74
62.00	18.0	116.75	15.13	131.89	65.94	162.15
64.00	18.0	123.36	17.14	140.50	70.25	174.78
66.00	18.0	133.16	19.27	152.42	76.21	190.96
68.00	18.0	147.08	21.84	168.92	84.46	212.61
70.00	18.0	161.64	28.42	190.06	95.03	246.91
72.00	18.0	178.78	39.28	218.06	109.03	296.63
74.00	18.0	196.28	47.68	243.96	121.98	339.32
76.00	18.0	216.21	50.99	267.20	133.60	369.18
78.00	18.0	229.97	54.33	284.31	142.15	392.97
80.00	18.0	243.71	60.19	303.91	151.95	424.29

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82.00	18.0	258.75	65.67	324.43	162.21	455.77
84.00	18.0	274.46	68.49	342.96	171.48	479.94
86.00	18.0	***** Not enough soil data *****				
88.00	18.0	0.00	0.00	0.00	0.00	0.00
90.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 X THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 X THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B39\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 10-24-13, Boring Number: WL2-B39  
 Station number: 820+58 Offset: 130 LT

Ground Elevation: 30.500(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	5.00	3- Clean sand
2	2.00	5.00	3- Clean sand
3	4.00	8.00	3- Clean sand
4	5.00	8.00	2- Clay and silty sand
5	6.00	16.00	3- Clean sand
6	7.00	5.00	2- Clay and silty sand
7	8.00	5.00	3- Clean sand
8	10.00	5.00	2- Clay and silty sand
9	11.25	2.00	3- Clean sand
10	12.50	2.00	2- Clay and silty sand
11	15.00	0.00	5- Cavity layer
12	17.50	9.00	3- Clean sand
13	20.00	6.00	2- Clay and silty sand
14	22.50	6.00	2- Clay and silty sand
15	23.75	4.00	3- Clean sand
16	25.00	4.00	2- Clay and silty sand
17	27.50	5.00	2- Clay and silty sand

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18	30.00	3.00	2- Clay and silty sand
19	32.50	3.00	2- Clay and silty sand
20	35.00	5.00	2- Clay and silty sand
21	37.50	2.00	2- Clay and silty sand
22	38.75	2.00	3- Clean sand
23	40.00	9.00	2- Clay and silty sand
24	42.50	8.00	2- Clay and silty sand
25	45.00	5.00	2- Clay and silty sand
26	47.50	11.00	2- Clay and silty sand
27	50.00	6.00	2- Clay and silty sand
28	52.50	6.00	2- Clay and silty sand
29	55.00	7.00	2- Clay and silty sand
30	57.50	8.00	1- Plastic Clay
31	58.75	8.00	2- Clay and silty sand
32	60.00	15.00	1- Plastic Clay
33	62.50	17.00	1- Plastic Clay
34	65.00	23.00	1- Plastic Clay
35	67.50	31.00	1- Plastic Clay
36	70.00	99.00	2- Clay and silty sand
37	72.50	99.00	2- Clay and silty sand
38	75.00	99.00	2- Clay and silty sand
39	76.25	12.00	3- Clean sand
40	77.50	12.00	2- Clay and silty sand
41	78.75	12.00	3- Clean sand
42	80.00	99.00	2- Clay and silty sand
43	82.50	99.00	2- Clay and silty sand
44	85.00	99.00	2- Clay and silty sand
45	87.50	39.00	2- Clay and silty sand
46	90.00	99.00	2- Clay and silty sand
47	92.50	99.00	2- Clay and silty sand
48	95.00	99.00	2- Clay and silty sand
49	97.50	99.00	2- Clay and silty sand
50	100.00	99.00	2- Clay and silty sand
51	101.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	30.50	25.50	5.00	5.60	3-Clean Sand
2	25.50	24.50	1.00	8.00	2-Clay and Silty Sand
3	24.50	23.50	1.00	16.00	3-Clean Sand

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4	23.50	22.50	1.00	5.00	2-Clay and Silty Sand
5	22.50	20.50	2.00	5.00	3-Clean Sand
6	20.50	19.25	1.25	5.00	2-Clay and Silty Sand
7	19.25	18.00	1.25	2.00	3-Clean Sand
8	18.00	15.50	2.50	2.00	2-Clay and Silty Sand
9	15.50	13.00	2.50	0.00	5-Void
10	13.00	10.50	2.50	9.00	3-Clean Sand
11	10.50	6.75	3.75	6.00	2-Clay and Silty Sand
12	6.75	5.50	1.25	4.00	3-Clean Sand
13	5.50	-8.25	13.75	3.82	2-Clay and Silty Sand
14	-8.25	-9.50	1.25	2.00	3-Clean Sand
15	-9.50	-27.00	17.50	7.43	2-Clay and Silty Sand
16	-27.00	-28.25	1.25	8.00	1-Plastic Clay
17	-28.25	-29.50	1.25	8.00	2-Clay and Silty Sand
18	-29.50	-39.50	10.00	21.50	1-Plastic Clay
19	-39.50	-45.75	6.25	99.00	2-Clay and Silty Sand
20	-45.75	-47.00	1.25	12.00	3-Clean Sand
21	-47.00	-48.25	1.25	12.00	2-Clay and Silty Sand
22	-48.25	-49.50	1.25	12.00	3-Clean Sand
23	-49.50	-70.50	21.00	91.86	2-Clay and Silty Sand
24	-70.50	-70.50	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	20.50
18.00	12.00	18.50
18.00	14.00	16.50
18.00	16.00	14.50
18.00	18.00	12.50
18.00	20.00	10.50
18.00	22.00	8.50
18.00	24.00	6.50
18.00	26.00	4.50
18.00	28.00	2.50
18.00	30.00	0.50
18.00	32.00	-1.50
18.00	34.00	-3.50
18.00	36.00	-5.50
18.00	38.00	-7.50
18.00	40.00	-9.50

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18.00	42.00	-11.50
18.00	44.00	-13.50
18.00	46.00	-15.50
18.00	48.00	-17.50
18.00	50.00	-19.50
18.00	52.00	-21.50
18.00	54.00	-23.50
18.00	56.00	-25.50
18.00	58.00	-27.50
18.00	60.00	-29.50
18.00	62.00	-31.50
18.00	64.00	-33.50
18.00	66.00	-35.50
18.00	68.00	-37.50
18.00	70.00	-39.50
18.00	72.00	-41.50
18.00	74.00	-43.50
18.00	76.00	-45.50
18.00	78.00	-47.50
18.00	80.00	-49.50
18.00	82.00	-51.50
18.00	84.00	-53.50
18.00	86.00	-55.50
18.00	88.00	-57.50
18.00	90.00	-59.50
18.00	92.00	-61.50
18.00	94.00	-63.50
18.00	96.00	-65.50
18.00	98.00	-67.50
18.00	100.00	-69.50

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
-----	-----	-----	-----	-----	-----	-----
10.00	18.0	13.11	9.33	22.44	11.22	41.09
12.00	18.0	14.16	2.58	16.74	8.37	21.91
14.00	18.0	14.16	11.54	25.70	12.85	48.77
16.00	18.0	14.42	0.00	14.42	7.21	14.42
18.00	18.0	16.42	10.28	26.71	13.35	47.28
20.00	18.0	19.84	5.33	25.17	12.59	35.83



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22.00	18.0	23.40	5.60	29.00	14.50	40.20
24.00	18.0	26.08	1.69	27.77	13.89	31.16
26.00	18.0	26.42	6.11	32.53	16.26	44.75
28.00	18.0	28.95	5.37	34.31	17.16	45.05
30.00	18.0	30.29	4.33	34.63	17.31	43.29
32.00	18.0	30.29	3.70	33.99	17.00	41.39
34.00	18.0	31.05	2.91	33.97	16.98	39.79
36.00	18.0	33.75	4.08	37.83	18.91	45.98
38.00	18.0	34.51	6.10	40.61	20.30	52.80
40.00	18.0	36.31	6.87	43.19	21.59	56.93
42.00	18.0	41.46	7.09	48.55	24.27	62.73
44.00	18.0	45.02	8.31	53.32	26.66	69.94
46.00	18.0	48.47	9.72	58.20	29.10	77.65
48.00	18.0	54.35	9.43	63.78	31.89	82.63
50.00	18.0	59.50	9.90	69.40	34.70	89.20
52.00	18.0	63.57	10.08	73.66	36.83	93.83
54.00	18.0	67.75	9.72	77.48	38.74	96.92
56.00	18.0	72.44	9.71	82.15	41.07	101.57
58.00	18.0	80.15	8.58	88.73	44.37	105.90
60.00	18.0	86.99	10.70	97.68	48.84	119.08
62.00	18.0	96.85	11.53	108.38	54.19	131.44
64.00	18.0	107.68	16.79	124.47	62.23	158.05
66.00	18.0	121.44	27.56	149.00	74.50	204.12
68.00	18.0	137.18	38.29	175.47	87.73	252.04
70.00	18.0	155.20	45.86	201.06	100.53	292.78
72.00	18.0	170.91	44.78	215.69	107.84	305.24
74.00	18.0	186.62	41.91	228.53	114.26	312.35
76.00	18.0	199.36	46.92	246.28	123.14	340.11
78.00	18.0	205.40	54.18	259.58	129.79	367.93
80.00	18.0	213.17	63.66	276.82	138.41	404.14
82.00	18.0	228.80	63.79	292.58	146.29	420.16
84.00	18.0	244.59	62.22	306.81	153.40	431.26
86.00	18.0	260.28	62.22	322.51	161.25	446.96
88.00	18.0	275.92	63.95	339.87	169.93	467.77
90.00	18.0	291.59	68.30	359.89	179.94	496.48
92.00	18.0	307.30	70.55	377.84	188.92	518.93
94.00	18.0	323.01	70.55	393.55	196.78	534.64
96.00	18.0	*****	Not enough soil data	*****		
98.00	18.0	0.00	0.00	0.00	0.00	0.00
100.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.

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3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE  
ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B40\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJL  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 10-21-13, Boring Number: WL2-B40  
 Station number: 820+56 Offset: 14 LT

Ground Elevation: 31.800(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	6.00	3- Clean sand
2	2.00	6.00	3- Clean sand
3	4.00	8.00	3- Clean sand
4	6.00	9.00	3- Clean sand
5	7.00	9.00	2- Clay and silty sand
6	8.00	14.00	3- Clean sand
7	9.00	4.00	2- Clay and silty sand
8	10.00	5.00	3- Clean sand
9	12.50	2.00	2- Clay and silty sand
10	15.00	2.00	5- Cavity layer
11	17.50	18.00	2- Clay and silty sand
12	20.00	6.00	2- Clay and silty sand
13	22.50	12.00	2- Clay and silty sand
14	25.00	7.00	2- Clay and silty sand
15	26.25	4.00	3- Clean sand
16	27.50	4.00	2- Clay and silty sand
17	30.00	3.00	2- Clay and silty sand

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18	32.50	3.00	2- Clay and silty sand
19	35.00	2.00	2- Clay and silty sand
20	36.25	2.00	3- Clean sand
21	37.50	8.00	2- Clay and silty sand
22	40.00	12.00	2- Clay and silty sand
23	42.50	14.00	2- Clay and silty sand
24	45.00	6.00	2- Clay and silty sand
25	47.50	5.00	2- Clay and silty sand
26	50.00	12.00	2- Clay and silty sand
27	52.50	13.00	2- Clay and silty sand
28	53.75	4.00	3- Clean sand
29	55.00	4.00	2- Clay and silty sand
30	56.25	4.00	3- Clean sand
31	57.50	7.00	2- Clay and silty sand
32	60.00	15.00	1- Plastic Clay
33	62.50	13.00	1- Plastic Clay
34	65.00	23.00	1- Plastic Clay
35	67.50	99.00	2- Clay and silty sand
36	70.00	99.00	2- Clay and silty sand
37	72.50	99.00	4- Lime Stone/Very shelly sand
38	75.00	99.00	4- Lime Stone/Very shelly sand
39	77.50	13.00	2- Clay and silty sand
40	78.75	13.00	3- Clean sand
41	80.00	99.00	2- Clay and silty sand
42	82.50	99.00	4- Lime Stone/Very shelly sand
43	85.00	99.00	4- Lime Stone/Very shelly sand
44	87.50	24.00	2- Clay and silty sand
45	90.00	99.00	4- Lime Stone/Very shelly sand
46	92.50	99.00	2- Clay and silty sand
47	95.00	99.00	2- Clay and silty sand
48	97.50	99.00	2- Clay and silty sand
49	100.00	99.00	2- Clay and silty sand
50	101.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	31.80	24.80	7.00	7.00	3-Clean Sand
2	24.80	23.80	1.00	9.00	2-Clay and Silty Sand
3	23.80	22.80	1.00	14.00	3-Clean Sand
4	22.80	21.80	1.00	4.00	2-Clay and Silty Sand

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5	21.80	19.30	2.50	5.00	3-Clean Sand
6	19.30	16.80	2.50	2.00	2-Clay and Silty Sand
7	16.80	14.30	2.50	2.00	5-Void
8	14.30	5.55	8.75	11.29	2-Clay and Silty Sand
9	5.55	4.30	1.25	4.00	3-Clean Sand
10	4.30	-4.45	8.75	3.14	2-Clay and Silty Sand
11	-4.45	-5.70	1.25	2.00	3-Clean Sand
12	-5.70	-21.95	16.25	9.77	2-Clay and Silty Sand
13	-21.95	-23.20	1.25	4.00	3-Clean Sand
14	-23.20	-24.45	1.25	4.00	2-Clay and Silty Sand
15	-24.45	-25.70	1.25	4.00	3-Clean Sand
16	-25.70	-28.20	2.50	7.00	2-Clay and Silty Sand
17	-28.20	-35.70	7.50	17.00	1-Plastic Clay
18	-35.70	-40.70	5.00	99.00	2-Clay and Silty Sand
19	-40.70	-45.70	5.00	99.00	4-Limestone, Very
Shelly Sand					
20	-45.70	-46.95	1.25	13.00	2-Clay and Silty Sand
21	-46.95	-48.20	1.25	13.00	3-Clean Sand
22	-48.20	-50.70	2.50	99.00	2-Clay and Silty Sand
23	-50.70	-55.70	5.00	99.00	4-Limestone, Very
Shelly Sand					
24	-55.70	-58.20	2.50	24.00	2-Clay and Silty Sand
25	-58.20	-60.70	2.50	99.00	4-Limestone, Very
Shelly Sand					
26	-60.70	-69.20	8.50	99.00	2-Clay and Silty Sand
27	-69.20	-69.20	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	21.80
18.00	12.00	19.80
18.00	14.00	17.80
18.00	16.00	15.80
18.00	18.00	13.80
18.00	20.00	11.80
18.00	22.00	9.80
18.00	24.00	7.80
18.00	26.00	5.80
18.00	28.00	3.80
18.00	30.00	1.80

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18.00	32.00	-0.20
18.00	34.00	-2.20
18.00	36.00	-4.20
18.00	38.00	-6.20
18.00	40.00	-8.20
18.00	42.00	-10.20
18.00	44.00	-12.20
18.00	46.00	-14.20
18.00	48.00	-16.20
18.00	50.00	-18.20
18.00	52.00	-20.20
18.00	54.00	-22.20
18.00	56.00	-24.20
18.00	58.00	-26.20
18.00	60.00	-28.20
18.00	62.00	-30.20
18.00	64.00	-32.20
18.00	66.00	-34.20
18.00	68.00	-36.20
18.00	70.00	-38.20
18.00	72.00	-40.20
18.00	74.00	-42.20
18.00	76.00	-44.20
18.00	78.00	-46.20
18.00	80.00	-48.20
18.00	82.00	-50.20
18.00	84.00	-52.20
18.00	86.00	-54.20
18.00	88.00	-56.20
18.00	90.00	-58.20
18.00	92.00	-60.20
18.00	94.00	-62.20
18.00	96.00	-64.20
18.00	98.00	-66.20
18.00	100.00	-68.20

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
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10.00	18.0	11.94	12.00	23.93	11.97	47.92

WL2-B40\_18-PCP.txt

12.00	18.0	12.78	11.89	24.67	12.34	48.46
14.00	18.0	12.82	6.61	19.43	9.71	32.65
16.00	18.0	13.84	0.00	13.84	6.92	13.84
18.00	18.0	21.63	13.30	34.93	17.46	61.52
20.00	18.0	28.13	11.99	40.11	20.06	64.08
22.00	18.0	33.49	9.87	43.35	21.68	63.08
24.00	18.0	40.18	7.41	47.59	23.80	62.42
26.00	18.0	44.15	6.41	50.55	25.28	63.37
28.00	18.0	44.20	6.17	50.38	25.19	62.72
30.00	18.0	44.20	4.48	48.68	24.34	57.64
32.00	18.0	44.20	3.59	47.80	23.90	54.98
34.00	18.0	44.20	5.14	49.34	24.67	59.62
36.00	18.0	44.20	7.23	51.44	25.72	65.90
38.00	18.0	47.12	9.08	56.20	28.10	74.35
40.00	18.0	52.99	9.53	62.52	31.26	81.58
42.00	18.0	60.82	9.56	70.38	35.19	89.51
44.00	18.0	68.33	9.83	78.16	39.08	97.81
46.00	18.0	72.76	12.09	84.85	42.43	109.04
48.00	18.0	76.42	14.46	90.87	45.44	119.79
50.00	18.0	82.21	12.60	94.82	47.41	120.03
52.00	18.0	89.81	9.73	99.55	49.77	119.01
54.00	18.0	94.77	2.32	97.09	48.54	101.72
56.00	18.0	94.77	9.04	103.81	51.91	121.90
58.00	18.0	97.50	9.48	106.98	53.49	125.95
60.00	18.0	105.45	10.29	115.74	57.87	136.32
62.00	18.0	112.76	14.39	127.15	63.57	155.93
64.00	18.0	121.40	27.48	148.88	74.44	203.84
66.00	18.0	134.52	40.83	175.35	87.68	257.00
68.00	18.0	153.95	57.36	211.31	105.65	326.03
70.00	18.0	164.84	68.66	233.50	116.75	370.82
72.00	18.0	174.96	81.73	256.69	128.35	420.15
74.00	18.0	189.72	78.37	268.09	134.05	424.84
76.00	18.0	196.99	77.39	274.39	137.19	429.17
78.00	18.0	204.54	59.97	264.51	132.26	384.46
80.00	18.0	212.46	119.04	331.49	165.75	569.57
82.00	18.0	224.65	119.46	344.11	172.06	583.02
84.00	18.0	232.17	108.50	340.67	170.34	557.67
86.00	18.0	239.90	106.01	345.91	172.96	557.93
88.00	18.0	251.08	78.41	329.49	164.74	486.30
90.00	18.0	260.40	100.28	360.69	180.34	561.25
92.00	18.0	271.01	96.59	367.59	183.80	560.77
94.00	18.0	286.50	72.00	358.50	179.25	502.50
96.00	18.0	*****	Not enough soil data	*****		
98.00	18.0	0.00	0.00	0.00	0.00	0.00
100.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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WL2-B40\_18-PCP.txt

1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.



General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B41\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJL  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 11-13-13, Boring Number: WL2-B41  
 Station number: 821+67 Offset: 59 LT

Ground Elevation: 30.900(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	6.00	3- Clean sand
2	2.00	6.00	3- Clean sand
3	4.00	7.00	3- Clean sand
4	6.00	7.00	3- Clean sand
5	8.00	8.00	3- Clean sand
6	10.00	6.00	3- Clean sand
7	12.50	6.00	2- Clay and silty sand
8	13.75	0.00	3- Clean sand
9	15.00	0.00	2- Clay and silty sand
10	17.50	3.00	2- Clay and silty sand
11	18.75	3.00	3- Clean sand
12	20.00	5.00	2- Clay and silty sand
13	22.50	9.00	2- Clay and silty sand
14	25.00	11.00	2- Clay and silty sand
15	27.50	8.00	2- Clay and silty sand
16	30.00	6.00	2- Clay and silty sand
17	31.25	4.00	3- Clean sand

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18	32.50	4.00	2- Clay and silty sand
19	35.00	4.00	2- Clay and silty sand
20	37.50	3.00	2- Clay and silty sand
21	38.75	3.00	3- Clean sand
22	40.00	9.00	2- Clay and silty sand
23	42.50	5.00	2- Clay and silty sand
24	45.00	6.00	2- Clay and silty sand
25	47.50	2.00	1- Plastic Clay
26	50.00	10.00	2- Clay and silty sand
27	51.25	4.00	3- Clean sand
28	52.50	4.00	2- Clay and silty sand
29	55.00	5.00	2- Clay and silty sand
30	57.50	11.00	1- Plastic Clay
31	60.00	13.00	1- Plastic Clay
32	62.50	12.00	1- Plastic Clay
33	63.75	12.00	2- Clay and silty sand
34	65.00	64.00	1- Plastic Clay
35	67.50	99.00	1- Plastic Clay
36	70.00	99.00	2- Clay and silty sand
37	72.50	99.00	2- Clay and silty sand
38	75.00	49.00	2- Clay and silty sand
39	77.50	99.00	2- Clay and silty sand
40	80.00	99.00	2- Clay and silty sand
41	82.50	99.00	2- Clay and silty sand
42	85.00	99.00	2- Clay and silty sand
43	87.50	99.00	2- Clay and silty sand
44	88.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	30.90	18.40	12.50	6.64	3-Clean Sand
2	18.40	17.15	1.25	6.00	2-Clay and Silty Sand
3	17.15	15.90	1.25	0.00	3-Clean Sand
4	15.90	12.15	3.75	1.00	2-Clay and Silty Sand
5	12.15	10.90	1.25	3.00	3-Clean Sand
6	10.90	-0.35	11.25	8.00	2-Clay and Silty Sand
7	-0.35	-1.60	1.25	4.00	3-Clean Sand
8	-1.60	-7.85	6.25	3.80	2-Clay and Silty Sand
9	-7.85	-9.10	1.25	3.00	3-Clean Sand
10	-9.10	-16.60	7.50	6.67	2-Clay and Silty Sand

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11	-16.60	-19.10	2.50	2.00	1-Plastic Clay
12	-19.10	-20.35	1.25	10.00	2-Clay and Silty Sand
13	-20.35	-21.60	1.25	4.00	3-Clean Sand
14	-21.60	-26.60	5.00	4.50	2-Clay and Silty Sand
15	-26.60	-32.85	6.25	12.00	1-Plastic Clay
16	-32.85	-34.10	1.25	12.00	2-Clay and Silty Sand
17	-34.10	-39.10	5.00	81.50	1-Plastic Clay
18	-39.10	-57.10	18.00	92.06	2-Clay and Silty Sand
19	-57.10	-57.10	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	20.90
18.00	12.00	18.90
18.00	14.00	16.90
18.00	16.00	14.90
18.00	18.00	12.90
18.00	20.00	10.90
18.00	22.00	8.90
18.00	24.00	6.90
18.00	26.00	4.90
18.00	28.00	2.90
18.00	30.00	0.90
18.00	32.00	-1.10
18.00	34.00	-3.10
18.00	36.00	-5.10
18.00	38.00	-7.10
18.00	40.00	-9.10
18.00	42.00	-11.10
18.00	44.00	-13.10
18.00	46.00	-15.10
18.00	48.00	-17.10
18.00	50.00	-19.10
18.00	52.00	-21.10
18.00	54.00	-23.10
18.00	56.00	-25.10
18.00	58.00	-27.10
18.00	60.00	-29.10
18.00	62.00	-31.10
18.00	64.00	-33.10

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18.00	66.00	-35.10
18.00	68.00	-37.10
18.00	70.00	-39.10
18.00	72.00	-41.10
18.00	74.00	-43.10
18.00	76.00	-45.10
18.00	78.00	-47.10
18.00	80.00	-49.10
18.00	82.00	-51.10
18.00	84.00	-53.10
18.00	86.00	-55.10
18.00	88.00	-57.10
18.00	90.00	-59.10

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	9.61	13.84	23.45	11.73	51.13
12.00	18.0	12.23	10.62	22.85	11.43	44.09
14.00	18.0	14.42	0.04	14.45	7.23	14.53
16.00	18.0	14.42	8.43	22.85	11.42	39.71
18.00	18.0	14.42	8.78	23.20	11.60	40.76
20.00	18.0	15.47	9.96	25.44	12.72	45.37
22.00	18.0	19.80	9.87	29.67	14.84	49.41
24.00	18.0	25.77	9.29	35.06	17.53	53.63
26.00	18.0	32.37	8.38	40.75	20.37	57.50
28.00	18.0	37.92	7.00	44.92	22.46	58.93
30.00	18.0	42.40	5.92	48.31	24.16	60.15
32.00	18.0	43.65	0.00	43.65	21.82	43.65
34.00	18.0	43.65	4.73	48.38	24.19	57.85
36.00	18.0	43.65	5.49	49.14	24.57	60.12
38.00	18.0	43.65	5.91	49.56	24.78	61.38
40.00	18.0	45.45	6.05	51.51	25.75	63.62
42.00	18.0	50.26	4.88	55.15	27.57	64.91
44.00	18.0	53.83	4.68	58.51	29.26	67.87
46.00	18.0	57.37	5.62	62.99	31.50	74.24
48.00	18.0	58.43	3.41	61.84	30.92	68.66
50.00	18.0	62.23	5.47	67.70	33.85	78.65
52.00	18.0	64.21	2.45	66.66	33.33	71.57
54.00	18.0	64.94	6.16	71.10	35.55	83.42

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56.00	18.0	68.23	6.37	74.60	37.30	87.34
58.00	18.0	75.28	6.66	81.93	40.97	95.24
60.00	18.0	81.74	9.64	91.38	45.69	110.66
62.00	18.0	90.03	14.62	104.66	52.33	133.90
64.00	18.0	100.86	20.20	121.06	60.53	161.46
66.00	18.0	115.57	27.97	143.53	71.77	199.46
68.00	18.0	129.86	41.00	170.86	85.43	252.87
70.00	18.0	151.30	48.14	199.44	99.72	295.71
72.00	18.0	165.71	49.91	215.62	107.81	315.45
74.00	18.0	178.93	55.24	234.16	117.08	344.64
76.00	18.0	192.66	63.76	256.41	128.21	383.93
78.00	18.0	208.37	67.36	275.73	137.86	410.44
80.00	18.0	224.08	70.65	294.73	147.36	436.03
82.00	18.0	239.78	72.00	311.78	155.89	455.78
84.00	18.0	*****	Not enough soil data	*****		
86.00	18.0	0.00	0.00	0.00	0.00	0.00
88.00	18.0	0.00	0.00	0.00	0.00	0.00
90.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B42\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 10-1-13, Boring Number: WL2-B42  
 Station number: 821+69 Offset: 64 RT

Ground Elevation: 32.600(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	5.00	3- Clean sand
2	6.00	18.00	2- Clay and silty sand
3	8.00	18.00	2- Clay and silty sand
4	10.00	16.00	2- Clay and silty sand
5	12.50	19.00	3- Clean sand
6	13.75	4.00	2- Clay and silty sand
7	15.00	4.00	3- Clean sand
8	17.50	1.00	5- Cavity layer
9	20.00	20.00	2- Clay and silty sand
10	22.50	12.00	2- Clay and silty sand
11	25.00	16.00	2- Clay and silty sand
12	26.25	6.00	3- Clean sand
13	27.50	6.00	2- Clay and silty sand
14	30.00	8.00	2- Clay and silty sand
15	32.50	6.00	2- Clay and silty sand
16	35.00	6.00	2- Clay and silty sand
17	36.25	4.00	3- Clean sand

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18	37.50	4.00	2- Clay and silty sand
19	38.75	4.00	3- Clean sand
20	40.00	7.00	2- Clay and silty sand
21	42.50	11.00	2- Clay and silty sand
22	45.00	15.00	2- Clay and silty sand
23	47.50	8.00	2- Clay and silty sand
24	50.00	1.00	1- Plastic Clay
25	52.50	16.00	2- Clay and silty sand
26	55.00	4.00	1- Plastic Clay
27	57.50	5.00	1- Plastic Clay
28	60.00	18.00	2- Clay and silty sand
29	62.50	18.00	2- Clay and silty sand
30	65.00	35.00	1- Plastic Clay
31	67.50	30.00	1- Plastic Clay
32	70.00	99.00	2- Clay and silty sand
33	72.50	99.00	4- Lime Stone/Very shelly sand
34	75.00	99.00	4- Lime Stone/Very shelly sand
35	77.50	99.00	2- Clay and silty sand
36	80.00	99.00	4- Lime Stone/Very shelly sand
37	82.50	99.00	4- Lime Stone/Very shelly sand
38	85.00	99.00	4- Lime Stone/Very shelly sand
39	87.50	99.00	2- Clay and silty sand
40	90.00	99.00	2- Clay and silty sand
41	91.00	0.00	1- Plastic Clay

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	32.60	26.60	6.00	5.00	3-Clean Sand
2	26.60	20.10	6.50	17.23	2-Clay and Silty Sand
3	20.10	18.85	1.25	19.00	3-Clean Sand
4	18.85	17.60	1.25	4.00	2-Clay and Silty Sand
5	17.60	15.10	2.50	4.00	3-Clean Sand
6	15.10	12.60	2.50	1.00	5-Void
7	12.60	6.35	6.25	16.00	2-Clay and Silty Sand
8	6.35	5.10	1.25	6.00	3-Clean Sand
9	5.10	-3.65	8.75	6.57	2-Clay and Silty Sand
10	-3.65	-4.90	1.25	4.00	3-Clean Sand
11	-4.90	-6.15	1.25	4.00	2-Clay and Silty Sand
12	-6.15	-7.40	1.25	4.00	3-Clean Sand
13	-7.40	-17.40	10.00	10.25	2-Clay and Silty Sand

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14	-17.40	-19.90	2.50	1.00	1-Plastic Clay
15	-19.90	-22.40	2.50	16.00	2-Clay and Silty Sand
16	-22.40	-27.40	5.00	4.50	1-Plastic Clay
17	-27.40	-32.40	5.00	18.00	2-Clay and Silty Sand
18	-32.40	-37.40	5.00	32.50	1-Plastic Clay
19	-37.40	-39.90	2.50	99.00	2-Clay and Silty Sand
20	-39.90	-44.90	5.00	99.00	4-Limestone, Very
Shelly Sand					
21	-44.90	-47.40	2.50	99.00	2-Clay and Silty Sand
22	-47.40	-54.90	7.50	99.00	4-Limestone, Very
Shelly Sand					
23	-54.90	-58.40	3.50	99.00	2-Clay and Silty Sand
24	-58.40	-58.40	0.00	0.00	1-Plastic Clay

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	22.60
18.00	12.00	20.60
18.00	14.00	18.60
18.00	16.00	16.60
18.00	18.00	14.60
18.00	20.00	12.60
18.00	22.00	10.60
18.00	24.00	8.60
18.00	26.00	6.60
18.00	28.00	4.60
18.00	30.00	2.60
18.00	32.00	0.60
18.00	34.00	-1.40
18.00	36.00	-3.40
18.00	38.00	-5.40
18.00	40.00	-7.40
18.00	42.00	-9.40
18.00	44.00	-11.40
18.00	46.00	-13.40
18.00	48.00	-15.40
18.00	50.00	-17.40
18.00	52.00	-19.40
18.00	54.00	-21.40
18.00	56.00	-23.40



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18.00	58.00	-25.40
18.00	60.00	-27.40
18.00	62.00	-29.40
18.00	64.00	-31.40
18.00	66.00	-33.40
18.00	68.00	-35.40
18.00	70.00	-37.40
18.00	72.00	-39.40
18.00	74.00	-41.40
18.00	76.00	-43.40
18.00	78.00	-45.40
18.00	80.00	-47.40
18.00	82.00	-49.40
18.00	84.00	-51.40
18.00	86.00	-53.40
18.00	88.00	-55.40
18.00	90.00	-57.40

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	37.41	24.31	61.72	30.86	110.34
12.00	18.0	45.32	18.53	63.84	31.92	100.89
14.00	18.0	48.44	1.74	50.17	25.09	53.65
16.00	18.0	48.44	17.39	65.82	32.91	100.60
18.00	18.0	48.71	0.00	48.71	24.36	48.71
20.00	18.0	55.35	20.50	75.85	37.92	116.84
22.00	18.0	64.96	19.00	83.95	41.98	121.95
24.00	18.0	72.90	15.73	88.63	44.31	120.09
26.00	18.0	80.54	12.93	93.47	46.74	119.34
28.00	18.0	83.65	9.77	93.42	46.71	112.96
30.00	18.0	88.37	10.01	98.37	49.19	118.38
32.00	18.0	93.09	8.37	101.46	50.73	118.20
34.00	18.0	97.11	6.52	103.63	51.81	116.66
36.00	18.0	100.31	6.75	107.06	53.53	120.56
38.00	18.0	100.36	8.88	109.24	54.62	127.01
40.00	18.0	101.80	11.72	113.52	56.76	136.97
42.00	18.0	106.95	12.06	119.01	59.51	143.12
44.00	18.0	114.59	11.53	126.13	63.06	149.19
46.00	18.0	122.92	9.40	132.32	66.16	151.13

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48.00	18.0	128.83	10.88	139.71	69.85	161.47	
50.00	18.0	130.90	11.34	142.25	71.12	164.94	
52.00	18.0	134.65	8.93	143.58	71.79	161.44	
54.00	18.0	141.68	9.78	151.46	75.73	171.03	
56.00	18.0	143.00	7.42	150.41	75.21	165.25	
58.00	18.0	145.66	12.70	158.36	79.18	183.76	
60.00	18.0	153.84	17.43	171.26	85.63	206.12	
62.00	18.0	163.73	17.68	181.41	90.70	216.77	
64.00	18.0	173.18	20.08	193.27	96.63	233.43	
66.00	18.0	190.78	28.20	218.99	109.49	275.40	
68.00	18.0	201.81	58.94	260.76	130.38	378.65	
70.00	18.0	224.79	83.97	308.76	154.38	476.70	
72.00	18.0	236.08	87.06	323.13	161.57	497.25	
74.00	18.0	244.47	92.35	336.81	168.41	521.50	
76.00	18.0	251.30	96.92	348.22	174.11	542.06	
78.00	18.0	266.14	114.64	380.78	190.39	610.07	
80.00	18.0	276.74	138.58	415.33	207.66	692.49	
82.00	18.0	283.91	138.73	422.65	211.32	700.11	
84.00	18.0	291.14	126.72	417.87	208.93	671.31	
86.00	18.0	***** Not enough soil data *****					
88.00	18.0	0.00	0.00	0.00	0.00	0.00	
90.00	18.0	0.00	0.00	0.00	0.00	0.00	

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
  4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B43\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 11-18-13, Boring Number: WL2-B43  
 Station number: 822+93 Offset: 126 LT

Ground Elevation: 29.500(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	5.00	3- Clean sand
2	2.00	5.00	3- Clean sand
3	4.00	7.00	3- Clean sand
4	6.00	12.00	3- Clean sand
5	8.00	12.00	3- Clean sand
6	10.00	5.00	3- Clean sand
7	12.50	0.00	2- Clay and silty sand
8	15.00	0.00	2- Clay and silty sand
9	17.50	3.00	2- Clay and silty sand
10	18.75	3.00	3- Clean sand
11	20.00	8.00	2- Clay and silty sand
12	22.50	7.00	2- Clay and silty sand
13	23.75	4.00	3- Clean sand
14	25.00	4.00	2- Clay and silty sand
15	27.50	2.00	2- Clay and silty sand
16	30.00	3.00	2- Clay and silty sand
17	32.50	3.00	2- Clay and silty sand

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18	33.75	3.00	3- Clean sand
19	35.00	7.00	2- Clay and silty sand
20	37.50	8.00	2- Clay and silty sand
21	40.00	14.00	2- Clay and silty sand
22	42.50	13.00	2- Clay and silty sand
23	45.00	16.00	2- Clay and silty sand
24	47.50	13.00	2- Clay and silty sand
25	50.00	7.00	2- Clay and silty sand
26	52.50	9.00	2- Clay and silty sand
27	55.00	17.00	2- Clay and silty sand
28	57.50	18.00	2- Clay and silty sand
29	60.00	27.00	1- Plastic Clay
30	62.50	28.00	1- Plastic Clay
31	65.00	99.00	4- Lime Stone/Very shelly sand
32	67.50	99.00	4- Lime Stone/Very shelly sand
33	70.00	99.00	2- Clay and silty sand
34	72.50	66.00	2- Clay and silty sand
35	75.00	57.00	2- Clay and silty sand
36	77.50	99.00	2- Clay and silty sand
37	80.00	99.00	2- Clay and silty sand
38	82.50	49.00	2- Clay and silty sand
39	85.00	99.00	2- Clay and silty sand
40	87.50	99.00	2- Clay and silty sand
41	88.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	29.50	17.00	12.50	7.56	3-Clean Sand
2	17.00	10.75	6.25	0.60	2-Clay and Silty Sand
3	10.75	9.50	1.25	3.00	3-Clean Sand
4	9.50	5.75	3.75	7.67	2-Clay and Silty Sand
5	5.75	4.50	1.25	4.00	3-Clean Sand
6	4.50	-4.25	8.75	3.00	2-Clay and Silty Sand
7	-4.25	-5.50	1.25	3.00	3-Clean Sand
8	-5.50	-30.50	25.00	12.20	2-Clay and Silty Sand
9	-30.50	-35.50	5.00	27.50	1-Plastic Clay
10	-35.50	-40.50	5.00	99.00	4-Limestone, Very Shelly Sand
11	-40.50	-58.50	18.00	81.64	2-Clay and Silty Sand
12	-58.50	-58.50	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	19.50
18.00	12.00	17.50
18.00	14.00	15.50
18.00	16.00	13.50
18.00	18.00	11.50
18.00	20.00	9.50
18.00	22.00	7.50
18.00	24.00	5.50
18.00	26.00	3.50
18.00	28.00	1.50
18.00	30.00	-0.50
18.00	32.00	-2.50
18.00	34.00	-4.50
18.00	36.00	-6.50
18.00	38.00	-8.50
18.00	40.00	-10.50
18.00	42.00	-12.50
18.00	44.00	-14.50
18.00	46.00	-16.50
18.00	48.00	-18.50
18.00	50.00	-20.50
18.00	52.00	-22.50
18.00	54.00	-24.50
18.00	56.00	-26.50
18.00	58.00	-28.50
18.00	60.00	-30.50
18.00	62.00	-32.50
18.00	64.00	-34.50
18.00	66.00	-36.50
18.00	68.00	-38.50
18.00	70.00	-40.50
18.00	72.00	-42.50
18.00	74.00	-44.50
18.00	76.00	-46.50
18.00	78.00	-48.50
18.00	80.00	-50.50
18.00	82.00	-52.50

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18.00	84.00	-54.50
18.00	86.00	-56.50
18.00	88.00	-58.50
18.00	90.00	-60.50

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	11.59	13.97	25.56	12.78	53.51
12.00	18.0	12.44	10.98	23.42	11.71	45.39
14.00	18.0	12.48	0.03	12.50	6.25	12.56
16.00	18.0	12.48	1.21	13.69	6.84	16.12
18.00	18.0	12.48	3.56	16.04	8.02	23.16
20.00	18.0	14.10	6.47	20.57	10.28	33.51
22.00	18.0	19.06	3.15	22.21	11.11	28.51
24.00	18.0	21.67	0.00	21.67	10.83	21.67
26.00	18.0	21.67	1.74	23.41	11.70	26.90
28.00	18.0	21.67	1.74	23.41	11.70	26.90
30.00	18.0	21.67	2.47	24.13	12.07	29.07
32.00	18.0	21.67	4.43	26.10	13.05	34.95
34.00	18.0	21.72	5.97	27.69	13.85	39.64
36.00	18.0	25.15	7.63	32.78	16.39	48.04
38.00	18.0	28.71	9.31	38.02	19.01	56.64
40.00	18.0	33.86	12.59	46.44	23.22	71.62
42.00	18.0	41.13	15.56	56.69	28.34	87.81
44.00	18.0	49.10	16.55	65.65	32.83	98.74
46.00	18.0	57.89	16.25	74.14	37.07	106.64
48.00	18.0	65.96	15.98	81.93	40.97	113.89
50.00	18.0	72.04	17.62	89.66	44.83	124.90
52.00	18.0	77.30	19.90	97.20	48.60	137.00
54.00	18.0	83.98	21.06	105.05	52.52	147.17
56.00	18.0	93.26	20.23	113.49	56.75	153.95
58.00	18.0	103.34	20.50	123.84	61.92	164.85
60.00	18.0	122.17	39.02	161.19	80.60	239.23
62.00	18.0	133.36	57.54	190.89	95.45	305.97
64.00	18.0	145.82	86.02	231.84	115.92	403.88
66.00	18.0	159.44	83.55	242.99	121.49	410.09
68.00	18.0	166.85	78.13	244.98	122.49	401.23
70.00	18.0	179.15	72.00	251.15	125.58	395.15
72.00	18.0	194.86	72.00	266.86	133.43	410.86

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74.00	18.0	210.57	72.00	282.57	141.29	426.57
76.00	18.0	226.28	72.00	298.28	149.14	442.28
78.00	18.0	241.99	72.00	313.99	157.00	457.99
80.00	18.0	257.70	72.00	329.70	164.85	473.70
82.00	18.0	273.41	72.00	345.41	172.71	489.41
84.00	18.0	***** Not enough soil data *****				
86.00	18.0	0.00	0.00	0.00	0.00	0.00
88.00	18.0	0.00	0.00	0.00	0.00	0.00
90.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
  4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B44\_18&24PCP.spc  
 Project number: H1145080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 11-19-13, Boring Number: WL2-B44  
 Station number: 823+99 Offset: 65 LT

Ground Elevation: 29.700(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	5.00	3- Clean sand
2	2.00	5.00	3- Clean sand
3	4.00	7.00	3- Clean sand
4	6.00	9.00	3- Clean sand
5	7.00	9.00	2- Clay and silty sand
6	8.00	19.00	3- Clean sand
7	10.00	0.00	2- Clay and silty sand
8	12.50	0.00	2- Clay and silty sand
9	15.00	0.00	2- Clay and silty sand
10	17.50	0.00	1- Plastic Clay
11	20.00	0.00	2- Clay and silty sand
12	22.50	0.00	2- Clay and silty sand
13	25.00	0.00	2- Clay and silty sand
14	27.50	0.00	2- Clay and silty sand
15	30.00	2.00	1- Plastic Clay
16	32.50	5.00	2- Clay and silty sand
17	35.00	7.00	2- Clay and silty sand



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18	36.25	7.00	3- Clean sand
19	37.50	15.00	2- Clay and silty sand
20	40.00	22.00	2- Clay and silty sand
21	42.50	18.00	2- Clay and silty sand
22	45.00	20.00	2- Clay and silty sand
23	47.50	13.00	2- Clay and silty sand
24	50.00	7.00	2- Clay and silty sand
25	52.50	18.00	2- Clay and silty sand
26	55.00	20.00	1- Plastic Clay
27	57.50	17.00	2- Clay and silty sand
28	58.75	17.00	3- Clean sand
29	60.00	99.00	2- Clay and silty sand
30	62.50	43.00	2- Clay and silty sand
31	65.00	99.00	4- Lime Stone/Very shelly sand
32	67.50	99.00	4- Lime Stone/Very shelly sand
33	70.00	99.00	4- Lime Stone/Very shelly sand
34	72.50	50.00	2- Clay and silty sand
35	75.00	99.00	2- Clay and silty sand
36	77.50	99.00	4- Lime Stone/Very shelly sand
37	80.00	99.00	4- Lime Stone/Very shelly sand
38	81.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	29.70	22.70	7.00	6.14	3-Clean Sand
2	22.70	21.70	1.00	9.00	2-Clay and Silty Sand
3	21.70	19.70	2.00	19.00	3-Clean Sand
4	19.70	12.20	7.50	0.00	2-Clay and Silty Sand
5	12.20	9.70	2.50	0.00	1-Plastic Clay
6	9.70	-0.30	10.00	0.00	2-Clay and Silty Sand
7	-0.30	-2.80	2.50	2.00	1-Plastic Clay
8	-2.80	-6.55	3.75	5.67	2-Clay and Silty Sand
9	-6.55	-7.80	1.25	7.00	3-Clean Sand
10	-7.80	-25.30	17.50	16.14	2-Clay and Silty Sand
11	-25.30	-27.80	2.50	20.00	1-Plastic Clay
12	-27.80	-29.05	1.25	17.00	2-Clay and Silty Sand
13	-29.05	-30.30	1.25	17.00	3-Clean Sand
14	-30.30	-35.30	5.00	71.00	2-Clay and Silty Sand
15	-35.30	-42.80	7.50	99.00	4-Limestone, Very

Shelly Sand

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16	-42.80	-47.80	5.00	74.50	2-Clay and Silty Sand
17	-47.80	-51.30	3.50	99.00	4-Limestone, Very
Shelly Sand					
18	-51.30	-51.30	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	19.70
18.00	12.00	17.70
18.00	14.00	15.70
18.00	16.00	13.70
18.00	18.00	11.70
18.00	20.00	9.70
18.00	22.00	7.70
18.00	24.00	5.70
18.00	26.00	3.70
18.00	28.00	1.70
18.00	30.00	-0.30
18.00	32.00	-2.30
18.00	34.00	-4.30
18.00	36.00	-6.30
18.00	38.00	-8.30
18.00	40.00	-10.30
18.00	42.00	-12.30
18.00	44.00	-14.30
18.00	46.00	-16.30
18.00	48.00	-18.30
18.00	50.00	-20.30
18.00	52.00	-22.30
18.00	54.00	-24.30
18.00	56.00	-26.30
18.00	58.00	-28.30
18.00	60.00	-30.30
18.00	62.00	-32.30
18.00	64.00	-34.30
18.00	66.00	-36.30
18.00	68.00	-38.30
18.00	70.00	-40.30
18.00	72.00	-42.30
18.00	74.00	-44.30

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18.00	76.00	-46.30
18.00	78.00	-48.30
18.00	80.00	-50.30

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	12.92	11.23	24.16	12.08	46.63
12.00	18.0	12.92	0.00	12.92	6.46	12.92
14.00	18.0	12.92	0.00	12.92	6.46	12.92
16.00	18.0	12.92	0.00	12.92	6.46	12.92
18.00	18.0	12.92	4.65	17.57	8.79	26.87
20.00	18.0	12.92	2.36	15.28	7.64	19.99
22.00	18.0	12.92	0.00	12.92	6.46	12.92
24.00	18.0	12.92	0.00	12.92	6.46	12.92
26.00	18.0	12.92	0.22	13.15	6.57	13.59
28.00	18.0	12.92	1.45	14.37	7.19	17.27
30.00	18.0	12.92	3.28	16.21	8.10	22.78
32.00	18.0	13.82	5.49	19.31	9.66	30.29
34.00	18.0	17.11	8.26	25.38	12.69	41.91
36.00	18.0	19.36	12.01	31.36	15.68	55.38
38.00	18.0	27.69	17.59	45.28	22.64	80.47
40.00	18.0	36.88	18.83	55.71	27.86	93.37
42.00	18.0	46.52	20.93	67.45	33.72	109.30
44.00	18.0	56.71	22.03	78.74	39.37	122.80
46.00	18.0	67.38	20.89	88.27	44.13	130.05
48.00	18.0	76.05	22.04	98.09	49.05	142.18
50.00	18.0	82.20	22.03	104.23	52.11	148.28
52.00	18.0	89.18	21.48	110.66	55.33	153.61
54.00	18.0	99.78	24.17	123.95	61.97	172.29
56.00	18.0	114.87	30.97	145.85	72.92	207.79
58.00	18.0	124.95	39.38	164.32	82.16	243.07
60.00	18.0	133.86	59.29	193.14	96.57	311.72
62.00	18.0	146.02	66.73	212.75	106.37	346.21
64.00	18.0	155.24	87.64	242.88	121.44	418.16
66.00	18.0	171.46	108.82	280.27	140.14	497.91
68.00	18.0	178.67	108.80	287.47	143.73	505.06
70.00	18.0	185.96	103.96	289.92	144.96	497.84
72.00	18.0	196.56	108.21	304.77	152.38	521.19
74.00	18.0	212.06	97.71	309.77	154.88	505.20

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76.00	18.0	*****	Not enough soil data	*****			
78.00	18.0	0.00	0.00	0.00	0.00	0.00	0.00
80.00	18.0	0.00	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
  4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B45\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJL  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 10-21-13, Boring Number: WL2-B45  
 Station number: 823+90 Offset: 67 RT

Ground Elevation: 31.200(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	7.00	3- Clean sand
2	2.00	7.00	3- Clean sand
3	4.00	14.00	3- Clean sand
4	6.00	17.00	3- Clean sand
5	8.00	18.00	3- Clean sand
6	10.00	8.00	3- Clean sand
7	12.50	0.00	2- Clay and silty sand
8	15.00	0.00	2- Clay and silty sand
9	17.50	0.00	2- Clay and silty sand
10	20.00	1.00	1- Plastic Clay
11	22.50	7.00	2- Clay and silty sand
12	25.00	5.00	2- Clay and silty sand
13	26.25	3.00	3- Clean sand
14	27.50	3.00	2- Clay and silty sand
15	30.00	3.00	2- Clay and silty sand
16	32.50	2.00	2- Clay and silty sand
17	35.00	5.00	1- Plastic Clay

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18	37.50	4.00	2- Clay and silty sand
19	40.00	4.00	2- Clay and silty sand
20	42.50	3.00	2- Clay and silty sand
21	45.00	2.00	1- Plastic Clay
22	47.50	12.00	2- Clay and silty sand
23	50.00	9.00	2- Clay and silty sand
24	52.50	7.00	2- Clay and silty sand
25	55.00	7.00	2- Clay and silty sand
26	57.50	13.00	2- Clay and silty sand
27	60.00	10.00	2- Clay and silty sand
28	62.50	23.00	1- Plastic Clay
29	65.00	99.00	2- Clay and silty sand
30	67.50	99.00	2- Clay and silty sand
31	70.00	99.00	2- Clay and silty sand
32	72.50	99.00	2- Clay and silty sand
33	75.00	99.00	2- Clay and silty sand
34	77.50	99.00	2- Clay and silty sand
35	80.00	99.00	2- Clay and silty sand
36	82.50	99.00	2- Clay and silty sand
37	85.00	99.00	2- Clay and silty sand
38	86.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	31.20	18.70	12.50	11.68	3-Clean Sand
2	18.70	11.20	7.50	0.00	2-Clay and Silty Sand
3	11.20	8.70	2.50	1.00	1-Plastic Clay
4	8.70	4.95	3.75	6.33	2-Clay and Silty Sand
5	4.95	3.70	1.25	3.00	3-Clean Sand
6	3.70	-3.80	7.50	2.67	2-Clay and Silty Sand
7	-3.80	-6.30	2.50	5.00	1-Plastic Clay
8	-6.30	-13.80	7.50	3.67	2-Clay and Silty Sand
9	-13.80	-16.30	2.50	2.00	1-Plastic Clay
10	-16.30	-31.30	15.00	9.67	2-Clay and Silty Sand
11	-31.30	-33.80	2.50	23.00	1-Plastic Clay
12	-33.80	-54.80	21.00	99.00	2-Clay and Silty Sand
13	-54.80	-54.80	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	21.20
18.00	12.00	19.20
18.00	14.00	17.20
18.00	16.00	15.20
18.00	18.00	13.20
18.00	20.00	11.20
18.00	22.00	9.20
18.00	24.00	7.20
18.00	26.00	5.20
18.00	28.00	3.20
18.00	30.00	1.20
18.00	32.00	-0.80
18.00	34.00	-2.80
18.00	36.00	-4.80
18.00	38.00	-6.80
18.00	40.00	-8.80
18.00	42.00	-10.80
18.00	44.00	-12.80
18.00	46.00	-14.80
18.00	48.00	-16.80
18.00	50.00	-18.80
18.00	52.00	-20.80
18.00	54.00	-22.80
18.00	56.00	-24.80
18.00	58.00	-26.80
18.00	60.00	-28.80
18.00	62.00	-30.80
18.00	64.00	-32.80
18.00	66.00	-34.80
18.00	68.00	-36.80
18.00	70.00	-38.80
18.00	72.00	-40.80
18.00	74.00	-42.80
18.00	76.00	-44.80
18.00	78.00	-46.80
18.00	80.00	-48.80
18.00	82.00	-50.80
18.00	84.00	-52.80

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	17.95	21.73	39.68	19.84	83.15
12.00	18.0	19.31	17.05	36.36	18.18	70.47
14.00	18.0	19.37	0.00	19.37	9.68	19.37
16.00	18.0	19.37	0.18	19.55	9.77	19.91
18.00	18.0	19.37	1.79	21.16	10.58	24.73
20.00	18.0	19.37	7.99	27.36	13.68	43.33
22.00	18.0	21.21	4.60	25.81	12.91	35.01
24.00	18.0	25.42	2.40	27.82	13.91	32.61
26.00	18.0	28.24	1.68	29.92	14.96	33.27
28.00	18.0	28.28	1.67	29.95	14.98	33.30
30.00	18.0	28.28	1.86	30.14	15.07	33.86
32.00	18.0	28.28	2.25	30.53	15.26	35.02
34.00	18.0	29.05	2.02	31.07	15.53	35.10
36.00	18.0	32.23	0.95	33.18	16.59	35.07
38.00	18.0	33.10	0.00	33.10	16.55	33.10
40.00	18.0	33.10	0.01	33.11	16.55	33.13
42.00	18.0	33.10	1.29	34.39	17.20	36.97
44.00	18.0	33.10	4.84	37.94	18.97	47.62
46.00	18.0	33.76	6.81	40.57	20.29	54.19
48.00	18.0	39.55	7.82	47.37	23.68	63.01
50.00	18.0	45.74	7.96	53.70	26.85	69.63
52.00	18.0	49.69	9.20	58.89	29.45	77.30
54.00	18.0	53.28	11.95	65.23	32.61	89.12
56.00	18.0	58.29	13.62	71.91	35.96	99.15
58.00	18.0	65.28	15.09	80.36	40.18	110.54
60.00	18.0	72.16	22.54	94.70	47.35	139.79
62.00	18.0	81.31	33.40	114.70	57.35	181.49
64.00	18.0	97.15	39.63	136.79	68.39	216.05
66.00	18.0	113.62	46.71	160.33	80.17	253.76
68.00	18.0	127.21	50.10	177.31	88.65	277.50
70.00	18.0	140.64	56.44	197.08	98.54	309.97
72.00	18.0	155.52	63.08	218.60	109.30	344.77
74.00	18.0	171.23	67.84	239.07	119.53	374.75
76.00	18.0	186.94	71.52	258.46	129.23	401.51
78.00	18.0	202.65	72.00	274.65	137.32	418.65
80.00	18.0	218.35	71.79	290.14	145.07	433.71
82.00	18.0	*****	Not enough	soil data	*****	
84.00	18.0	0.00	0.00	0.00	0.00	0.00



NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B46\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Sectin 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 11-20-13, Boring Number: WL2-B46  
 Station number: 825+10 Offset: 135 LT

Ground Elevation: 29.500(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	4.00	3- Clean sand
2	2.00	4.00	3- Clean sand
3	3.00	4.00	2- Clay and silty sand
4	4.00	6.00	3- Clean sand
5	6.00	7.00	3- Clean sand
6	8.00	5.00	2- Clay and silty sand
7	9.00	0.00	3- Clean sand
8	10.00	0.00	2- Clay and silty sand
9	12.50	0.00	2- Clay and silty sand
10	15.00	0.00	2- Clay and silty sand
11	17.50	0.00	2- Clay and silty sand
12	20.00	4.00	2- Clay and silty sand
13	21.25	4.00	3- Clean sand
14	22.50	5.00	2- Clay and silty sand
15	23.75	0.00	3- Clean sand
16	25.00	0.00	2- Clay and silty sand
17	27.50	0.00	2- Clay and silty sand

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18	30.00	2.00	2- Clay and silty sand
19	32.50	4.00	2- Clay and silty sand
20	33.75	4.00	3- Clean sand
21	35.00	5.00	2- Clay and silty sand
22	36.25	4.00	3- Clean sand
23	37.50	4.00	2- Clay and silty sand
24	38.75	4.00	3- Clean sand
25	40.00	7.00	1- Plastic Clay
26	42.50	8.00	1- Plastic Clay
27	45.00	8.00	2- Clay and silty sand
28	47.50	7.00	2- Clay and silty sand
29	50.00	9.00	2- Clay and silty sand
30	52.50	12.00	1- Plastic Clay
31	55.00	14.00	1- Plastic Clay
32	57.50	14.00	1- Plastic Clay
33	60.00	23.00	1- Plastic Clay
34	61.25	23.00	2- Clay and silty sand
35	62.50	99.00	1- Plastic Clay
36	65.00	99.00	1- Plastic Clay
37	67.50	99.00	4- Lime Stone/Very shelly sand
38	70.00	99.00	4- Lime Stone/Very shelly sand
39	72.50	99.00	2- Clay and silty sand
40	75.00	99.00	2- Clay and silty sand
41	77.50	99.00	4- Lime Stone/Very shelly sand
42	80.00	99.00	4- Lime Stone/Very shelly sand
43	82.50	79.00	2- Clay and silty sand
44	85.00	60.00	2- Clay and silty sand
45	86.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	29.50	26.50	3.00	4.00	3-Clean Sand
2	26.50	25.50	1.00	4.00	2-Clay and Silty Sand
3	25.50	21.50	4.00	6.50	3-Clean Sand
4	21.50	20.50	1.00	5.00	2-Clay and Silty Sand
5	20.50	19.50	1.00	0.00	3-Clean Sand
6	19.50	8.25	11.25	0.44	2-Clay and Silty Sand
7	8.25	7.00	1.25	4.00	3-Clean Sand
8	7.00	5.75	1.25	5.00	2-Clay and Silty Sand
9	5.75	4.50	1.25	0.00	3-Clean Sand

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10	4.50	-4.25	8.75	1.14	2-Clay and Silty Sand
11	-4.25	-5.50	1.25	4.00	3-Clean Sand
12	-5.50	-6.75	1.25	5.00	2-Clay and Silty Sand
13	-6.75	-8.00	1.25	4.00	3-Clean Sand
14	-8.00	-9.25	1.25	4.00	2-Clay and Silty Sand
15	-9.25	-10.50	1.25	4.00	3-Clean Sand
16	-10.50	-15.50	5.00	7.50	1-Plastic Clay
17	-15.50	-23.00	7.50	8.00	2-Clay and Silty Sand
18	-23.00	-31.75	8.75	14.71	1-Plastic Clay
19	-31.75	-33.00	1.25	23.00	2-Clay and Silty Sand
20	-33.00	-38.00	5.00	99.00	1-Plastic Clay
21	-38.00	-43.00	5.00	99.00	4-Limestone, Very
Shelly Sand					
22	-43.00	-48.00	5.00	99.00	2-Clay and Silty Sand
23	-48.00	-53.00	5.00	99.00	4-Limestone, Very
Shelly Sand					
24	-53.00	-56.50	3.50	73.57	2-Clay and Silty Sand
25	-56.50	-56.50	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	19.50
18.00	12.00	17.50
18.00	14.00	15.50
18.00	16.00	13.50
18.00	18.00	11.50
18.00	20.00	9.50
18.00	22.00	7.50
18.00	24.00	5.50
18.00	26.00	3.50
18.00	28.00	1.50
18.00	30.00	-0.50
18.00	32.00	-2.50
18.00	34.00	-4.50
18.00	36.00	-6.50
18.00	38.00	-8.50
18.00	40.00	-10.50
18.00	42.00	-12.50
18.00	44.00	-14.50
18.00	46.00	-16.50

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18.00	48.00	-18.50
18.00	50.00	-20.50
18.00	52.00	-22.50
18.00	54.00	-24.50
18.00	56.00	-26.50
18.00	58.00	-28.50
18.00	60.00	-30.50
18.00	62.00	-32.50
18.00	64.00	-34.50
18.00	66.00	-36.50
18.00	68.00	-38.50
18.00	70.00	-40.50
18.00	72.00	-42.50
18.00	74.00	-44.50
18.00	76.00	-46.50
18.00	78.00	-48.50
18.00	80.00	-50.50
18.00	82.00	-52.50
18.00	84.00	-54.50

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
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10.00	18.0	5.78	3.98	9.76	4.88	17.72
12.00	18.0	5.78	3.32	9.10	4.55	15.73
14.00	18.0	5.78	3.32	9.10	4.55	15.73
16.00	18.0	5.78	2.95	8.72	4.36	14.61
18.00	18.0	5.78	2.15	7.93	3.96	12.22
20.00	18.0	5.78	1.04	6.82	3.41	8.90
22.00	18.0	6.16	0.80	6.95	3.48	8.55
24.00	18.0	7.88	0.00	7.88	3.94	7.88
26.00	18.0	7.88	0.39	8.27	4.14	9.05
28.00	18.0	7.88	0.39	8.27	4.14	9.05
30.00	18.0	7.88	0.89	8.77	4.39	10.55
32.00	18.0	7.88	1.27	9.16	4.58	11.70
34.00	18.0	7.93	1.24	9.16	4.58	11.64
36.00	18.0	9.84	1.11	10.95	5.48	13.17
38.00	18.0	9.99	1.98	11.97	5.99	15.93
40.00	18.0	11.64	3.99	15.62	7.81	23.60
42.00	18.0	16.12	5.06	21.18	10.59	31.30

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44.00	18.0	21.37	7.04	28.41	14.21	42.49
46.00	18.0	28.01	7.79	35.81	17.90	51.39
48.00	18.0	32.51	8.02	40.53	20.27	56.57
50.00	18.0	37.41	8.52	45.92	22.96	62.96
52.00	18.0	43.98	9.10	53.08	26.54	71.28
54.00	18.0	53.42	9.56	62.97	31.49	82.09
56.00	18.0	62.01	12.31	74.32	37.16	98.93
58.00	18.0	71.72	16.55	88.28	44.14	121.38
60.00	18.0	83.83	20.45	104.28	52.14	145.19
62.00	18.0	97.54	28.32	125.86	62.93	182.49
64.00	18.0	112.98	51.28	164.26	82.13	266.82
66.00	18.0	126.86	83.98	210.84	105.42	378.79
68.00	18.0	142.79	85.41	228.19	114.10	399.01
70.00	18.0	149.99	81.10	231.09	115.54	393.29
72.00	18.0	160.20	87.67	247.88	123.94	423.22
74.00	18.0	176.09	97.71	273.80	136.90	469.23
76.00	18.0	188.39	106.65	295.04	147.52	508.34
78.00	18.0	200.06	123.66	323.72	161.86	571.04
80.00	18.0	207.26	108.75	316.01	158.00	533.51
82.00	18.0	*****	Not enough soil data	*****		
84.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
  4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B47\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Sectin 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 11-22-13, Boring Number: WL2-B47  
 Station number: 825+11 Offset: 26 LT

Ground Elevation: 29.900(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	0.00	3- Clean sand
2	2.00	0.00	3- Clean sand
3	3.00	0.00	2- Clay and silty sand
4	4.00	10.00	3- Clean sand
5	6.00	14.00	3- Clean sand
6	8.00	7.00	3- Clean sand
7	9.00	2.00	2- Clay and silty sand
8	10.00	2.00	3- Clean sand
9	12.50	0.00	2- Clay and silty sand
10	15.00	0.00	2- Clay and silty sand
11	17.50	0.00	1- Plastic Clay
12	20.00	0.00	1- Plastic Clay
13	22.50	6.00	2- Clay and silty sand
14	23.75	2.00	3- Clean sand
15	25.00	2.00	2- Clay and silty sand
16	27.50	2.00	2- Clay and silty sand
17	30.00	2.00	2- Clay and silty sand

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18	32.50	2.00	2- Clay and silty sand
19	33.75	2.00	3- Clean sand
20	35.00	11.00	2- Clay and silty sand
21	37.50	14.00	2- Clay and silty sand
22	40.00	11.00	2- Clay and silty sand
23	42.50	1.00	1- Plastic Clay
24	45.00	11.00	2- Clay and silty sand
25	47.50	3.00	1- Plastic Clay
26	48.75	3.00	2- Clay and silty sand
27	50.00	10.00	1- Plastic Clay
28	52.50	9.00	1- Plastic Clay
29	55.00	14.00	1- Plastic Clay
30	57.50	16.00	1- Plastic Clay
31	58.75	16.00	2- Clay and silty sand
32	60.00	28.00	1- Plastic Clay
33	62.50	99.00	2- Clay and silty sand
34	65.00	99.00	4- Lime Stone/Very shelly sand
35	67.50	99.00	2- Clay and silty sand
36	68.75	30.00	3- Clean sand
37	70.00	30.00	2- Clay and silty sand
38	72.50	17.00	2- Clay and silty sand
39	73.75	17.00	3- Clean sand
40	75.00	99.00	2- Clay and silty sand
41	76.25	35.00	3- Clean sand
42	77.50	35.00	2- Clay and silty sand
43	80.00	41.00	2- Clay and silty sand
44	82.50	35.00	2- Clay and silty sand
45	83.75	35.00	3- Clean sand
46	85.00	99.00	2- Clay and silty sand
47	87.50	99.00	2- Clay and silty sand
48	90.00	99.00	2- Clay and silty sand
49	92.50	99.00	2- Clay and silty sand
50	95.00	99.00	4- Lime Stone/Very shelly sand
51	96.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	29.90	26.90	3.00	0.00	3-Clean Sand
2	26.90	25.90	1.00	0.00	2-Clay and Silty Sand
3	25.90	20.90	5.00	11.00	3-Clean Sand



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4	20.90	19.90	1.00	2.00	2-Clay and Silty Sand
5	19.90	17.40	2.50	2.00	3-Clean Sand
6	17.40	12.40	5.00	0.00	2-Clay and Silty Sand
7	12.40	7.40	5.00	0.00	1-Plastic Clay
8	7.40	6.15	1.25	6.00	2-Clay and Silty Sand
9	6.15	4.90	1.25	2.00	3-Clean Sand
10	4.90	-3.85	8.75	2.00	2-Clay and Silty Sand
11	-3.85	-5.10	1.25	2.00	3-Clean Sand
12	-5.10	-12.60	7.50	12.00	2-Clay and Silty Sand
13	-12.60	-15.10	2.50	1.00	1-Plastic Clay
14	-15.10	-17.60	2.50	11.00	2-Clay and Silty Sand
15	-17.60	-18.85	1.25	3.00	1-Plastic Clay
16	-18.85	-20.10	1.25	3.00	2-Clay and Silty Sand
17	-20.10	-28.85	8.75	11.71	1-Plastic Clay
18	-28.85	-30.10	1.25	16.00	2-Clay and Silty Sand
19	-30.10	-32.60	2.50	28.00	1-Plastic Clay
20	-32.60	-35.10	2.50	99.00	2-Clay and Silty Sand
21	-35.10	-37.60	2.50	99.00	4-Limestone, Very
Shelly Sand					
22	-37.60	-38.85	1.25	99.00	2-Clay and Silty Sand
23	-38.85	-40.10	1.25	30.00	3-Clean Sand
24	-40.10	-43.85	3.75	25.67	2-Clay and Silty Sand
25	-43.85	-45.10	1.25	17.00	3-Clean Sand
26	-45.10	-46.35	1.25	99.00	2-Clay and Silty Sand
27	-46.35	-47.60	1.25	35.00	3-Clean Sand
28	-47.60	-53.85	6.25	37.40	2-Clay and Silty Sand
29	-53.85	-55.10	1.25	35.00	3-Clean Sand
30	-55.10	-65.10	10.00	99.00	2-Clay and Silty Sand
31	-65.10	-66.10	1.00	99.00	4-Limestone, Very
Shelly Sand					
32	-66.10	-66.10	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	19.90
18.00	12.00	17.90
18.00	14.00	15.90
18.00	16.00	13.90
18.00	18.00	11.90
18.00	20.00	9.90

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18.00	22.00	7.90
18.00	24.00	5.90
18.00	26.00	3.90
18.00	28.00	1.90
18.00	30.00	-0.10
18.00	32.00	-2.10
18.00	34.00	-4.10
18.00	36.00	-6.10
18.00	38.00	-8.10
18.00	40.00	-10.10
18.00	42.00	-12.10
18.00	44.00	-14.10
18.00	46.00	-16.10
18.00	48.00	-18.10
18.00	50.00	-20.10
18.00	52.00	-22.10
18.00	54.00	-24.10
18.00	56.00	-26.10
18.00	58.00	-28.10
18.00	60.00	-30.10
18.00	62.00	-32.10
18.00	64.00	-34.10
18.00	66.00	-36.10
18.00	68.00	-38.10
18.00	70.00	-40.10
18.00	72.00	-42.10
18.00	74.00	-44.10
18.00	76.00	-46.10
18.00	78.00	-48.10
18.00	80.00	-50.10
18.00	82.00	-52.10
18.00	84.00	-54.10
18.00	86.00	-56.10
18.00	88.00	-58.10
18.00	90.00	-60.10
18.00	92.00	-62.10
18.00	94.00	-64.10

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
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10.00	18.0	7.56	7.96	15.52	7.76	31.45
12.00	18.0	7.56	6.63	14.20	7.10	27.46
14.00	18.0	7.56	6.63	14.20	7.10	27.46
16.00	18.0	7.56	6.28	13.84	6.92	26.40
18.00	18.0	7.56	4.55	12.11	6.06	21.20
20.00	18.0	7.56	2.03	9.59	4.80	13.65
22.00	18.0	9.16	1.21	10.37	5.19	12.80
24.00	18.0	11.31	0.00	11.31	5.65	11.31
26.00	18.0	11.31	0.70	12.01	6.00	13.40
28.00	18.0	11.31	0.70	12.01	6.00	13.40
30.00	18.0	11.31	1.84	13.15	6.57	16.82
32.00	18.0	11.31	5.61	16.92	8.46	28.14
34.00	18.0	11.39	8.67	20.06	10.03	37.39
36.00	18.0	17.03	9.75	26.78	13.39	46.28
38.00	18.0	25.09	8.37	33.46	16.73	50.20
40.00	18.0	32.59	8.57	41.16	20.58	58.30
42.00	18.0	36.72	9.08	45.79	22.90	63.94
44.00	18.0	38.44	5.71	44.15	22.08	55.58
46.00	18.0	43.95	8.38	52.32	26.16	69.08
48.00	18.0	45.49	2.31	47.81	23.90	52.43
50.00	18.0	47.76	7.71	55.47	27.74	70.90
52.00	18.0	54.75	7.39	62.14	31.07	76.92
54.00	18.0	62.00	9.23	71.23	35.61	89.68
56.00	18.0	71.43	13.12	84.55	42.28	110.80
58.00	18.0	81.83	23.95	105.78	52.89	153.69
60.00	18.0	93.38	46.95	140.33	70.16	234.22
62.00	18.0	106.18	58.85	165.03	82.52	282.73
64.00	18.0	122.44	67.29	189.74	94.87	324.33
66.00	18.0	131.76	62.70	194.45	97.23	319.84
68.00	18.0	144.68	53.89	198.57	99.29	306.36
70.00	18.0	156.27	43.86	200.13	100.06	287.85
72.00	18.0	167.43	45.90	213.33	106.67	305.14
74.00	18.0	176.57	74.59	251.15	125.58	400.33
76.00	18.0	188.94	70.39	259.32	129.66	400.09
78.00	18.0	201.87	55.73	257.59	128.80	369.04
80.00	18.0	215.76	59.35	275.11	137.56	393.82
82.00	18.0	229.71	63.80	293.51	146.76	421.11
84.00	18.0	245.80	68.47	314.27	157.14	451.21
86.00	18.0	260.35	72.00	332.35	166.18	476.35
88.00	18.0	275.83	72.48	348.31	174.15	493.27
90.00	18.0	288.41	82.31	370.72	185.36	535.35
92.00	18.0	*****	Not enough soil data	*****		
94.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.

2. DAVISSEON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA,  
AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSEON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE  
ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....culations-Analyses\FB-Deep\Wildlife No 2\WL2-B48\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 12-3-13, Boring Number: WL2-B48  
 Station number: 826+24 Offset: 66 LT

Ground Elevation: 29.200(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	2.00	3- Clean sand
2	2.00	2.00	3- Clean sand
3	4.00	2.00	3- Clean sand
4	6.00	13.00	2- Clay and silty sand
5	8.00	8.00	3- Clean sand
6	9.00	0.00	2- Clay and silty sand
7	10.00	0.00	3- Clean sand
8	12.50	0.00	2- Clay and silty sand
9	15.00	0.00	2- Clay and silty sand
10	17.50	2.00	2- Clay and silty sand
11	18.75	2.00	3- Clean sand
12	20.00	8.00	2- Clay and silty sand
13	21.25	4.00	3- Clean sand
14	22.50	4.00	2- Clay and silty sand
15	25.00	2.00	2- Clay and silty sand
16	27.50	0.00	2- Clay and silty sand
17	30.00	4.00	2- Clay and silty sand

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18	31.25	4.00	3- Clean sand
19	32.50	8.00	2- Clay and silty sand
20	35.00	8.00	2- Clay and silty sand
21	37.50	9.00	2- Clay and silty sand
22	40.00	6.00	2- Clay and silty sand
23	42.50	11.00	2- Clay and silty sand
24	45.00	7.00	2- Clay and silty sand
25	47.50	6.00	2- Clay and silty sand
26	48.75	6.00	3- Clean sand
27	50.00	20.00	2- Clay and silty sand
28	52.50	20.00	1- Plastic Clay
29	55.00	23.00	1- Plastic Clay
30	56.25	23.00	2- Clay and silty sand
31	57.50	47.00	1- Plastic Clay
32	60.00	60.00	1- Plastic Clay
33	62.50	99.00	4- Lime Stone/Very shelly sand
34	65.00	99.00	4- Lime Stone/Very shelly sand
35	67.50	99.00	4- Lime Stone/Very shelly sand
36	68.75	34.00	3- Clean sand
37	70.00	34.00	4- Lime Stone/Very shelly sand
38	71.25	34.00	3- Clean sand
39	72.50	99.00	4- Lime Stone/Very shelly sand
40	75.00	99.00	2- Clay and silty sand
41	77.50	99.00	4- Lime Stone/Very shelly sand
42	80.00	37.00	2- Clay and silty sand
43	81.25	37.00	3- Clean sand
44	82.50	99.00	2- Clay and silty sand
45	85.00	99.00	2- Clay and silty sand
46	86.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	29.20	23.20	6.00	2.00	3-Clean Sand
2	23.20	21.20	2.00	13.00	2-Clay and Silty Sand
3	21.20	20.20	1.00	8.00	3-Clean Sand
4	20.20	19.20	1.00	0.00	2-Clay and Silty Sand
5	19.20	16.70	2.50	0.00	3-Clean Sand
6	16.70	10.45	6.25	0.40	2-Clay and Silty Sand
7	10.45	9.20	1.25	2.00	3-Clean Sand
8	9.20	7.95	1.25	8.00	2-Clay and Silty Sand

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9	7.95	6.70	1.25	4.00	3-Clean Sand
10	6.70	-2.05	8.75	2.29	2-Clay and Silty Sand
11	-2.05	-3.30	1.25	4.00	3-Clean Sand
12	-3.30	-19.55	16.25	8.00	2-Clay and Silty Sand
13	-19.55	-20.80	1.25	6.00	3-Clean Sand
14	-20.80	-23.30	2.50	20.00	2-Clay and Silty Sand
15	-23.30	-27.05	3.75	21.00	1-Plastic Clay
16	-27.05	-28.30	1.25	23.00	2-Clay and Silty Sand
17	-28.30	-33.30	5.00	53.50	1-Plastic Clay
18	-33.30	-39.55	6.25	99.00	4-Limestone, Very
Shelly Sand					
19	-39.55	-40.80	1.25	34.00	3-Clean Sand
20	-40.80	-42.05	1.25	34.00	4-Limestone, Very
Shelly Sand					
21	-42.05	-43.30	1.25	34.00	3-Clean Sand
22	-43.30	-45.80	2.50	99.00	4-Limestone, Very
Shelly Sand					
23	-45.80	-48.30	2.50	99.00	2-Clay and Silty Sand
24	-48.30	-50.80	2.50	99.00	4-Limestone, Very
Shelly Sand					
25	-50.80	-52.05	1.25	37.00	2-Clay and Silty Sand
26	-52.05	-53.30	1.25	37.00	3-Clean Sand
27	-53.30	-56.80	3.50	99.00	2-Clay and Silty Sand
28	-56.80	-56.80	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	19.20
18.00	12.00	17.20
18.00	14.00	15.20
18.00	16.00	13.20
18.00	18.00	11.20
18.00	20.00	9.20
18.00	22.00	7.20
18.00	24.00	5.20
18.00	26.00	3.20
18.00	28.00	1.20
18.00	30.00	-0.80
18.00	32.00	-2.80
18.00	34.00	-4.80

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18.00	36.00	-6.80
18.00	38.00	-8.80
18.00	40.00	-10.80
18.00	42.00	-12.80
18.00	44.00	-14.80
18.00	46.00	-16.80
18.00	48.00	-18.80
18.00	50.00	-20.80
18.00	52.00	-22.80
18.00	54.00	-24.80
18.00	56.00	-26.80
18.00	58.00	-28.80
18.00	60.00	-30.80
18.00	62.00	-32.80
18.00	64.00	-34.80
18.00	66.00	-36.80
18.00	68.00	-38.80
18.00	70.00	-40.80
18.00	72.00	-42.80
18.00	74.00	-44.80
18.00	76.00	-46.80
18.00	78.00	-48.80
18.00	80.00	-50.80
18.00	82.00	-52.80
18.00	84.00	-54.80

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	9.62	3.72	13.34	6.67	20.78
12.00	18.0	9.62	3.10	12.72	6.36	18.92
14.00	18.0	9.62	3.13	12.75	6.37	19.01
16.00	18.0	9.62	3.93	13.55	6.77	21.40
18.00	18.0	9.62	3.66	13.28	6.64	20.60
20.00	18.0	11.25	1.51	12.76	6.38	15.79
22.00	18.0	12.87	0.00	12.87	6.43	12.87
24.00	18.0	12.87	0.62	13.49	6.74	14.73
26.00	18.0	12.87	0.62	13.49	6.74	14.73
28.00	18.0	12.87	2.05	14.92	7.46	19.02
30.00	18.0	12.87	4.45	17.32	8.66	26.21



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32.00	18.0	13.41	5.92	19.33	9.67	31.17
34.00	18.0	18.11	6.73	24.84	12.42	38.30
36.00	18.0	22.60	7.32	29.92	14.96	44.56
38.00	18.0	26.92	9.07	35.99	17.99	54.12
40.00	18.0	31.49	10.48	41.97	20.98	62.92
42.00	18.0	36.64	11.04	47.69	23.84	69.77
44.00	18.0	42.85	12.11	54.96	27.48	79.19
46.00	18.0	47.66	14.92	62.59	31.29	92.43
48.00	18.0	51.76	15.88	67.64	33.82	99.39
50.00	18.0	59.08	17.66	76.74	38.37	112.05
52.00	18.0	69.00	18.97	87.97	43.99	125.92
54.00	18.0	83.68	20.13	103.81	51.91	144.07
56.00	18.0	96.05	27.89	123.94	61.97	179.72
58.00	18.0	112.08	44.79	156.86	78.43	246.43
60.00	18.0	124.94	71.50	196.44	98.22	339.44
62.00	18.0	138.56	97.24	235.80	117.90	430.29
64.00	18.0	151.64	100.66	252.30	126.15	453.62
66.00	18.0	158.51	102.06	260.57	130.28	464.68
68.00	18.0	164.76	107.80	272.56	136.28	488.16
70.00	18.0	174.20	117.02	291.22	145.61	525.26
72.00	18.0	182.01	120.70	302.71	151.35	544.11
74.00	18.0	191.04	119.86	310.90	155.45	550.61
76.00	18.0	205.36	119.43	324.79	162.39	563.64
78.00	18.0	214.30	97.77	312.06	156.03	507.59
80.00	18.0	226.80	78.63	305.43	152.72	462.69
82.00	18.0	*****	Not enough soil data	*****		
84.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
  4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B49\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJI  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 10-23-13, Boring Number: WL2-B49  
 Station number: 826+18 Offset: 66 RT

Ground Elevation: 30.700(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	4.00	3- Clean sand
2	2.00	4.00	3- Clean sand
3	3.00	4.00	2- Clay and silty sand
4	4.00	5.00	3- Clean sand
5	5.00	5.00	2- Clay and silty sand
6	6.00	11.00	3- Clean sand
7	8.00	16.00	3- Clean sand
8	10.00	15.00	3- Clean sand
9	12.50	2.00	2- Clay and silty sand
10	15.00	1.00	2- Clay and silty sand
11	17.50	0.00	2- Clay and silty sand
12	20.00	0.00	2- Clay and silty sand
13	22.50	1.00	1- Plastic Clay
14	25.00	3.00	2- Clay and silty sand
15	26.25	3.00	3- Clean sand
16	27.50	5.00	2- Clay and silty sand
17	28.75	3.00	3- Clean sand

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18	30.00	3.00	2- Clay and silty sand
19	32.50	3.00	2- Clay and silty sand
20	35.00	3.00	2- Clay and silty sand
21	37.50	3.00	2- Clay and silty sand
22	40.00	4.00	2- Clay and silty sand
23	41.25	4.00	3- Clean sand
24	42.50	12.00	2- Clay and silty sand
25	43.75	3.00	3- Clean sand
26	45.00	3.00	1- Plastic Clay
27	47.50	12.00	2- Clay and silty sand
28	50.00	5.00	2- Clay and silty sand
29	52.50	6.00	2- Clay and silty sand
30	55.00	9.00	2- Clay and silty sand
31	56.25	9.00	3- Clean sand
32	57.50	37.00	2- Clay and silty sand
33	58.75	37.00	3- Clean sand
34	60.00	99.00	2- Clay and silty sand
35	62.50	99.00	2- Clay and silty sand
36	65.00	99.00	2- Clay and silty sand
37	67.50	99.00	2- Clay and silty sand
38	70.00	99.00	2- Clay and silty sand
39	72.50	99.00	2- Clay and silty sand
40	75.00	99.00	2- Clay and silty sand
41	77.50	99.00	4- Lime Stone/Very shelly sand
42	80.00	99.00	4- Lime Stone/Very shelly sand
43	82.50	99.00	2- Clay and silty sand
44	83.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	30.70	27.70	3.00	4.00	3-Clean Sand
2	27.70	26.70	1.00	4.00	2-Clay and Silty Sand
3	26.70	25.70	1.00	5.00	3-Clean Sand
4	25.70	24.70	1.00	5.00	2-Clay and Silty Sand
5	24.70	18.20	6.50	14.08	3-Clean Sand
6	18.20	8.20	10.00	0.75	2-Clay and Silty Sand
7	8.20	5.70	2.50	1.00	1-Plastic Clay
8	5.70	4.45	1.25	3.00	2-Clay and Silty Sand
9	4.45	3.20	1.25	3.00	3-Clean Sand
10	3.20	1.95	1.25	5.00	2-Clay and Silty Sand

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11	1.95	0.70	1.25	3.00	3-Clean Sand
12	0.70	-10.55	11.25	3.11	2-Clay and Silty Sand
13	-10.55	-11.80	1.25	4.00	3-Clean Sand
14	-11.80	-13.05	1.25	12.00	2-Clay and Silty Sand
15	-13.05	-14.30	1.25	3.00	3-Clean Sand
16	-14.30	-16.80	2.50	3.00	1-Plastic Clay
17	-16.80	-25.55	8.75	7.86	2-Clay and Silty Sand
18	-25.55	-26.80	1.25	9.00	3-Clean Sand
19	-26.80	-28.05	1.25	37.00	2-Clay and Silty Sand
20	-28.05	-29.30	1.25	37.00	3-Clean Sand
21	-29.30	-46.80	17.50	99.00	2-Clay and Silty Sand
22	-46.80	-51.80	5.00	99.00	4-Limestone, Very
Shelly Sand					
23	-51.80	-52.30	0.50	99.00	2-Clay and Silty Sand
24	-52.30	-52.30	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	20.70
18.00	12.00	18.70
18.00	14.00	16.70
18.00	16.00	14.70
18.00	18.00	12.70
18.00	20.00	10.70
18.00	22.00	8.70
18.00	24.00	6.70
18.00	26.00	4.70
18.00	28.00	2.70
18.00	30.00	0.70
18.00	32.00	-1.30
18.00	34.00	-3.30
18.00	36.00	-5.30
18.00	38.00	-7.30
18.00	40.00	-9.30
18.00	42.00	-11.30
18.00	44.00	-13.30
18.00	46.00	-15.30
18.00	48.00	-17.30
18.00	50.00	-19.30
18.00	52.00	-21.30

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18.00	54.00	-23.30
18.00	56.00	-25.30
18.00	58.00	-27.30
18.00	60.00	-29.30
18.00	62.00	-31.30
18.00	64.00	-33.30
18.00	66.00	-35.30
18.00	68.00	-37.30
18.00	70.00	-39.30
18.00	72.00	-41.30
18.00	74.00	-43.30
18.00	76.00	-45.30
18.00	78.00	-47.30
18.00	80.00	-49.30
18.00	82.00	-51.30
18.00	84.00	-53.30

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	11.37	15.88	27.25	13.62	59.01
12.00	18.0	13.91	11.25	25.16	12.58	47.66
14.00	18.0	14.02	0.00	14.02	7.01	14.02
16.00	18.0	14.02	0.00	14.02	7.01	14.02
18.00	18.0	14.02	0.00	14.02	7.01	14.02
20.00	18.0	14.02	0.00	14.02	7.01	14.02
22.00	18.0	14.02	0.28	14.30	7.15	14.87
24.00	18.0	14.02	0.98	15.00	7.50	16.95
26.00	18.0	14.02	0.89	14.90	7.45	16.68
28.00	18.0	15.75	0.48	16.22	8.11	17.18
30.00	18.0	16.12	0.39	16.51	8.26	17.29
32.00	18.0	16.12	0.39	16.51	8.26	17.29
34.00	18.0	16.12	0.39	16.51	8.26	17.29
36.00	18.0	16.12	0.39	16.51	8.26	17.29
38.00	18.0	16.12	2.34	18.47	9.23	23.15
40.00	18.0	16.12	2.22	18.34	9.17	22.78
42.00	18.0	16.80	2.95	19.75	9.87	25.65
44.00	18.0	20.76	4.49	25.25	12.63	34.24
46.00	18.0	21.45	6.43	27.88	13.94	40.75
48.00	18.0	27.14	7.04	34.18	17.09	48.25

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50.00	18.0	31.41	7.49	38.90	19.45	53.89	
52.00	18.0	32.79	11.47	44.26	22.13	67.19	
54.00	18.0	35.39	27.67	63.06	31.53	118.39	
56.00	18.0	40.24	39.76	80.00	40.00	159.53	
58.00	18.0	54.54	47.06	101.60	50.80	195.72	
60.00	18.0	67.31	72.00	139.31	69.65	283.31	
62.00	18.0	83.02	72.00	155.02	77.51	299.02	
64.00	18.0	98.73	72.00	170.73	85.36	314.73	
66.00	18.0	114.44	72.00	186.44	93.22	330.44	
68.00	18.0	130.15	72.00	202.15	101.07	346.15	
70.00	18.0	145.85	72.11	217.96	108.98	362.18	
72.00	18.0	161.56	80.68	242.24	121.12	403.60	
74.00	18.0	177.27	97.71	274.99	137.49	470.42	
76.00	18.0	192.13	111.21	303.35	151.67	525.77	
78.00	18.0	***** Not enough soil data *****					
80.00	18.0	0.00	0.00	0.00	0.00	0.00	
82.00	18.0	0.00	0.00	0.00	0.00	0.00	
84.00	18.0	0.00	0.00	0.00	0.00	0.00	

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 X THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 X THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B50\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 12-12-13, Boring Number: WL2-B50  
 Station number: 827+34 Offset: 146 LT

Ground Elevation: 29.800(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	2.00	3- Clean sand
2	2.00	2.00	3- Clean sand
3	4.00	4.00	3- Clean sand
4	5.00	4.00	2- Clay and silty sand
5	6.00	11.00	3- Clean sand
6	8.00	4.00	2- Clay and silty sand
7	10.00	0.00	2- Clay and silty sand
8	12.50	0.00	2- Clay and silty sand
9	15.00	0.00	2- Clay and silty sand
10	17.50	0.00	2- Clay and silty sand
11	18.75	0.00	3- Clean sand
12	20.00	11.00	2- Clay and silty sand
13	21.25	1.00	3- Clean sand
14	22.50	1.00	2- Clay and silty sand
15	25.00	1.00	2- Clay and silty sand
16	27.50	0.00	2- Clay and silty sand
17	30.00	2.00	2- Clay and silty sand

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18	32.50	2.00	2- Clay and silty sand
19	33.75	2.00	3- Clean sand
20	35.00	5.00	2- Clay and silty sand
21	37.50	9.00	2- Clay and silty sand
22	38.75	2.00	3- Clean sand
23	40.00	2.00	2- Clay and silty sand
24	41.25	2.00	3- Clean sand
25	42.50	9.00	2- Clay and silty sand
26	45.00	8.00	2- Clay and silty sand
27	47.50	6.00	2- Clay and silty sand
28	50.00	9.00	1- Plastic Clay
29	52.50	17.00	1- Plastic Clay
30	55.00	19.00	1- Plastic Clay
31	56.25	43.00	2- Clay and silty sand
32	57.50	43.00	1- Plastic Clay
33	60.00	99.00	1- Plastic Clay
34	62.50	99.00	4- Lime Stone/Very shelly sand
35	65.00	99.00	2- Clay and silty sand
36	67.50	73.00	2- Clay and silty sand
37	68.75	35.00	3- Clean sand
38	70.00	35.00	2- Clay and silty sand
39	71.25	35.00	3- Clean sand
40	72.50	99.00	2- Clay and silty sand
41	75.00	99.00	2- Clay and silty sand
42	76.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	29.80	24.80	5.00	2.40	3-Clean Sand
2	24.80	23.80	1.00	4.00	2-Clay and Silty Sand
3	23.80	21.80	2.00	11.00	3-Clean Sand
4	21.80	11.05	10.75	0.74	2-Clay and Silty Sand
5	11.05	9.80	1.25	0.00	3-Clean Sand
6	9.80	8.55	1.25	11.00	2-Clay and Silty Sand
7	8.55	7.30	1.25	1.00	3-Clean Sand
8	7.30	-3.95	11.25	1.11	2-Clay and Silty Sand
9	-3.95	-5.20	1.25	2.00	3-Clean Sand
10	-5.20	-8.95	3.75	6.33	2-Clay and Silty Sand
11	-8.95	-10.20	1.25	2.00	3-Clean Sand
12	-10.20	-11.45	1.25	2.00	2-Clay and Silty Sand



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13	-11.45	-12.70	1.25	2.00	3-Clean Sand
14	-12.70	-20.20	7.50	7.67	2-Clay and Silty Sand
15	-20.20	-26.45	6.25	14.20	1-Plastic Clay
16	-26.45	-27.70	1.25	43.00	2-Clay and Silty Sand
17	-27.70	-32.70	5.00	71.00	1-Plastic Clay
18	-32.70	-35.20	2.50	99.00	4-Limestone, Very
Shelly Sand					
19	-35.20	-38.95	3.75	90.33	2-Clay and Silty Sand
20	-38.95	-40.20	1.25	35.00	3-Clean Sand
21	-40.20	-41.45	1.25	35.00	2-Clay and Silty Sand
22	-41.45	-42.70	1.25	35.00	3-Clean Sand
23	-42.70	-46.20	3.50	99.00	2-Clay and Silty Sand
24	-46.20	-46.20	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	19.80
18.00	12.00	17.80
18.00	14.00	15.80
18.00	16.00	13.80
18.00	18.00	11.80
18.00	20.00	9.80
18.00	22.00	7.80
18.00	24.00	5.80
18.00	26.00	3.80
18.00	28.00	1.80
18.00	30.00	-0.20
18.00	32.00	-2.20
18.00	34.00	-4.20
18.00	36.00	-6.20
18.00	38.00	-8.20
18.00	40.00	-10.20
18.00	42.00	-12.20
18.00	44.00	-14.20
18.00	46.00	-16.20
18.00	48.00	-18.20
18.00	50.00	-20.20
18.00	52.00	-22.20
18.00	54.00	-24.20
18.00	56.00	-26.20

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18.00	58.00	-28.20
18.00	60.00	-30.20
18.00	62.00	-32.20
18.00	64.00	-34.20
18.00	66.00	-36.20
18.00	68.00	-38.20
18.00	70.00	-40.20
18.00	72.00	-42.20
18.00	74.00	-44.20
18.00	76.00	-46.20
18.00	78.00	-48.20
18.00	80.00	-50.20

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	2.33	2.46	4.79	2.39	9.70
12.00	18.0	2.33	0.00	2.33	1.17	2.33
14.00	18.0	2.33	0.16	2.49	1.24	2.80
16.00	18.0	2.33	1.95	4.28	2.14	8.18
18.00	18.0	2.33	1.95	4.28	2.14	8.18
20.00	18.0	4.48	1.40	5.88	2.94	8.68
22.00	18.0	6.63	0.00	6.63	3.32	6.63
24.00	18.0	6.63	0.85	7.49	3.74	9.19
26.00	18.0	6.63	0.85	7.49	3.74	9.19
28.00	18.0	6.63	0.85	7.49	3.74	9.19
30.00	18.0	6.63	1.48	8.11	4.06	11.07
32.00	18.0	6.63	3.04	9.67	4.84	15.75
34.00	18.0	6.68	3.71	10.39	5.19	17.81
36.00	18.0	9.61	3.01	12.62	6.31	18.64
38.00	18.0	14.48	3.50	17.98	8.99	24.97
40.00	18.0	15.21	5.72	20.92	10.46	32.36
42.00	18.0	15.81	7.05	22.87	11.43	36.97
44.00	18.0	21.19	7.69	28.88	14.44	44.26
46.00	18.0	26.27	7.73	34.00	17.00	49.47
48.00	18.0	30.23	8.13	38.37	19.18	54.63
50.00	18.0	36.25	8.87	45.12	22.56	62.85
52.00	18.0	42.05	14.12	56.17	28.08	84.41
54.00	18.0	52.09	21.04	73.12	36.56	115.19
56.00	18.0	64.52	27.43	91.96	45.98	146.82

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58.00	18.0	85.41	42.95	128.35	64.18	214.25	
60.00	18.0	99.58	59.31	158.89	79.45	277.52	
62.00	18.0	113.34	66.94	180.28	90.14	314.16	
64.00	18.0	126.81	66.62	193.43	96.71	326.66	
66.00	18.0	141.85	75.37	217.22	108.61	367.96	
68.00	18.0	157.05	77.05	234.10	117.05	388.21	
70.00	18.0	169.45	79.36	248.81	124.40	407.53	
72.00	18.0	***** Not enough soil data *****					
74.00	18.0	0.00	0.00	0.00	0.00	0.00	
76.00	18.0	0.00	0.00	0.00	0.00	0.00	
78.00	18.0	0.00	0.00	0.00	0.00	0.00	
80.00	18.0	0.00	0.00	0.00	0.00	0.00	

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B51\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 12-5-13, Boring Number: WL2-B51  
 Station number: 827+56 Offset: 8 LT

Ground Elevation: 29.800(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	2.00	3- Clean sand
2	2.00	2.00	3- Clean sand
3	4.00	2.00	3- Clean sand
4	5.00	2.00	2- Clay and silty sand
5	6.00	5.00	3- Clean sand
6	8.00	10.00	3- Clean sand
7	10.00	0.00	2- Clay and silty sand
8	12.50	4.00	2- Clay and silty sand
9	15.00	0.00	2- Clay and silty sand
10	17.50	0.00	2- Clay and silty sand
11	20.00	4.00	1- Plastic Clay
12	22.50	5.00	2- Clay and silty sand
13	23.75	1.00	3- Clean sand
14	25.00	1.00	2- Clay and silty sand
15	27.50	0.00	2- Clay and silty sand
16	30.00	0.00	2- Clay and silty sand
17	32.50	1.00	2- Clay and silty sand

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18	33.75	1.00	3- Clean sand
19	35.00	10.00	2- Clay and silty sand
20	37.50	9.00	2- Clay and silty sand
21	40.00	8.00	2- Clay and silty sand
22	42.50	10.00	1- Plastic Clay
23	45.00	7.00	2- Clay and silty sand
24	47.50	11.00	1- Plastic Clay
25	48.75	11.00	2- Clay and silty sand
26	50.00	35.00	1- Plastic Clay
27	52.50	17.00	2- Clay and silty sand
28	55.00	17.00	2- Clay and silty sand
29	57.50	23.00	1- Plastic Clay
30	60.00	30.00	1- Plastic Clay
31	62.50	99.00	2- Clay and silty sand
32	65.00	99.00	4- Lime Stone/Very shelly sand
33	67.50	99.00	4- Lime Stone/Very shelly sand
34	70.00	16.00	2- Clay and silty sand
35	71.25	16.00	3- Clean sand
36	72.50	99.00	2- Clay and silty sand
37	75.00	99.00	2- Clay and silty sand
38	77.50	99.00	2- Clay and silty sand
39	78.75	25.00	3- Clean sand
40	80.00	25.00	2- Clay and silty sand
41	81.25	25.00	3- Clean sand
42	82.50	41.00	2- Clay and silty sand
43	85.00	52.00	2- Clay and silty sand
44	86.25	20.00	3- Clean sand
45	87.50	20.00	2- Clay and silty sand
46	90.00	11.00	2- Clay and silty sand
47	91.25	0.00	3- Clean sand
48	92.50	0.00	2- Clay and silty sand
49	93.75	0.00	3- Clean sand
50	95.00	17.00	2- Clay and silty sand
51	97.50	17.00	2- Clay and silty sand
52	98.75	3.00	3- Clean sand
53	100.00	3.00	2- Clay and silty sand
54	102.50	0.00	2- Clay and silty sand
55	105.00	2.00	2- Clay and silty sand
56	107.50	0.00	4- Lime Stone/Very shelly sand
57	110.00	1.00	4- Lime Stone/Very shelly sand
58	111.25	1.00	3- Clean sand
59	112.50	30.00	4- Lime Stone/Very shelly sand
60	115.00	18.00	4- Lime Stone/Very shelly sand
61	117.50	18.00	4- Lime Stone/Very shelly sand
62	120.00	33.00	4- Lime Stone/Very shelly sand
63	121.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	29.80	24.80	5.00	2.00	3-Clean Sand
2	24.80	23.80	1.00	2.00	2-Clay and Silty Sand
3	23.80	19.80	4.00	7.50	3-Clean Sand
4	19.80	9.80	10.00	1.00	2-Clay and Silty Sand
5	9.80	7.30	2.50	4.00	1-Plastic Clay
6	7.30	6.05	1.25	5.00	2-Clay and Silty Sand
7	6.05	4.80	1.25	1.00	3-Clean Sand
8	4.80	-3.95	8.75	0.43	2-Clay and Silty Sand
9	-3.95	-5.20	1.25	1.00	3-Clean Sand
10	-5.20	-12.70	7.50	9.00	2-Clay and Silty Sand
11	-12.70	-15.20	2.50	10.00	1-Plastic Clay
12	-15.20	-17.70	2.50	7.00	2-Clay and Silty Sand
13	-17.70	-18.95	1.25	11.00	1-Plastic Clay
14	-18.95	-20.20	1.25	11.00	2-Clay and Silty Sand
15	-20.20	-22.70	2.50	35.00	1-Plastic Clay
16	-22.70	-27.70	5.00	17.00	2-Clay and Silty Sand
17	-27.70	-32.70	5.00	26.50	1-Plastic Clay
18	-32.70	-35.20	2.50	99.00	2-Clay and Silty Sand
19	-35.20	-40.20	5.00	99.00	4-Limestone, Very
Shelly Sand					
20	-40.20	-41.45	1.25	16.00	2-Clay and Silty Sand
21	-41.45	-42.70	1.25	16.00	3-Clean Sand
22	-42.70	-48.95	6.25	99.00	2-Clay and Silty Sand
23	-48.95	-50.20	1.25	25.00	3-Clean Sand
24	-50.20	-51.45	1.25	25.00	2-Clay and Silty Sand
25	-51.45	-52.70	1.25	25.00	3-Clean Sand
26	-52.70	-56.45	3.75	44.67	2-Clay and Silty Sand
27	-56.45	-57.70	1.25	20.00	3-Clean Sand
28	-57.70	-61.45	3.75	17.00	2-Clay and Silty Sand
29	-61.45	-62.70	1.25	0.00	3-Clean Sand
30	-62.70	-63.95	1.25	0.00	2-Clay and Silty Sand
31	-63.95	-65.20	1.25	0.00	3-Clean Sand
32	-65.20	-68.95	3.75	17.00	2-Clay and Silty Sand
33	-68.95	-70.20	1.25	3.00	3-Clean Sand
34	-70.20	-77.70	7.50	1.67	2-Clay and Silty Sand
35	-77.70	-81.45	3.75	0.33	4-Limestone, Very
Shelly Sand					
36	-81.45	-82.70	1.25	1.00	3-Clean Sand
37	-82.70	-91.20	8.50	23.29	4-Limestone, Very

Shelly Sand  
 38      -91.20      -91.20      0.00      0.00      5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	19.80
18.00	12.00	17.80
18.00	14.00	15.80
18.00	16.00	13.80
18.00	18.00	11.80
18.00	20.00	9.80
18.00	22.00	7.80
18.00	24.00	5.80
18.00	26.00	3.80
18.00	28.00	1.80
18.00	30.00	-0.20
18.00	32.00	-2.20
18.00	34.00	-4.20
18.00	36.00	-6.20
18.00	38.00	-8.20
18.00	40.00	-10.20
18.00	42.00	-12.20
18.00	44.00	-14.20
18.00	46.00	-16.20
18.00	48.00	-18.20
18.00	50.00	-20.20
18.00	52.00	-22.20
18.00	54.00	-24.20
18.00	56.00	-26.20
18.00	58.00	-28.20
18.00	60.00	-30.20
18.00	62.00	-32.20
18.00	64.00	-34.20
18.00	66.00	-36.20
18.00	68.00	-38.20
18.00	70.00	-40.20
18.00	72.00	-42.20
18.00	74.00	-44.20
18.00	76.00	-46.20
18.00	78.00	-48.20

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18.00	80.00	-50.20
18.00	82.00	-52.20
18.00	84.00	-54.20
18.00	86.00	-56.20
18.00	88.00	-58.20
18.00	90.00	-60.20
18.00	92.00	-62.20
18.00	94.00	-64.20
18.00	96.00	-66.20
18.00	98.00	-68.20
18.00	100.00	-70.20
18.00	102.00	-72.20
18.00	104.00	-74.20
18.00	106.00	-76.20
18.00	108.00	-78.20
18.00	110.00	-80.20
18.00	112.00	-82.20
18.00	114.00	-84.20
18.00	116.00	-86.20
18.00	118.00	-88.20
18.00	120.00	-90.20

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	3.89	4.09	7.98	3.99	16.16
12.00	18.0	3.89	0.00	3.89	1.94	3.89
14.00	18.0	3.89	0.00	3.89	1.94	3.89
16.00	18.0	3.89	0.22	4.11	2.05	4.55
18.00	18.0	3.89	1.26	5.15	2.57	7.66
20.00	18.0	3.89	2.57	6.46	3.23	11.59
22.00	18.0	5.24	1.01	6.25	3.12	8.26
24.00	18.0	7.05	0.00	7.05	3.52	7.05
26.00	18.0	7.05	0.58	7.63	3.81	8.79
28.00	18.0	7.05	0.58	7.63	3.81	8.79
30.00	18.0	7.05	1.61	8.66	4.33	11.89
32.00	18.0	7.05	4.51	11.56	5.78	20.58
34.00	18.0	7.12	6.50	13.62	6.81	26.62
36.00	18.0	12.09	7.13	19.22	9.61	33.49
38.00	18.0	17.93	7.16	25.09	12.55	39.42



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40.00	18.0	22.89	7.54	30.43	15.21	45.51
42.00	18.0	28.55	8.26	36.81	18.41	53.33
44.00	18.0	35.88	8.85	44.73	22.36	62.42
46.00	18.0	40.96	11.67	52.63	26.32	75.98
48.00	18.0	48.29	15.41	63.70	31.85	94.51
50.00	18.0	58.62	17.77	76.38	38.19	111.92
52.00	18.0	72.80	17.93	90.73	45.37	126.59
54.00	18.0	82.86	22.42	105.28	52.64	150.13
56.00	18.0	92.85	22.69	115.54	57.77	160.92
58.00	18.0	105.82	27.01	132.83	66.42	186.85
60.00	18.0	115.99	48.64	164.63	82.32	261.91
62.00	18.0	131.04	78.16	209.20	104.60	365.52
64.00	18.0	150.78	84.89	235.67	117.83	405.45
66.00	18.0	159.39	78.17	237.56	118.78	393.89
68.00	18.0	166.65	71.42	238.07	119.03	380.91
70.00	18.0	175.15	60.46	235.60	117.80	356.52
72.00	18.0	182.36	80.60	262.96	131.48	424.17
74.00	18.0	197.41	84.36	281.76	140.88	450.47
76.00	18.0	213.30	80.31	293.61	146.81	454.24
78.00	18.0	228.58	72.37	300.95	150.47	445.69
80.00	18.0	238.42	65.51	303.92	151.96	434.93
82.00	18.0	248.26	63.03	311.29	155.64	437.35
84.00	18.0	263.57	56.12	319.69	159.84	431.93
86.00	18.0	277.27	46.55	323.82	161.91	416.92
88.00	18.0	285.14	13.46	298.61	149.30	325.54
90.00	18.0	293.52	13.63	307.15	153.58	334.42
92.00	18.0	296.69	6.93	303.62	151.81	317.47
94.00	18.0	296.82	25.83	322.65	161.32	374.32
96.00	18.0	304.67	18.32	322.99	161.49	359.63
98.00	18.0	313.99	10.04	324.04	162.02	344.12
100.00	18.0	315.10	6.19	321.29	160.64	333.66
102.00	18.0	315.10	4.38	319.48	159.74	328.23
104.00	18.0	315.10	3.95	319.05	159.52	326.95
106.00	18.0	315.10	3.93	319.02	159.51	326.88
108.00	18.0	315.10	11.30	326.40	163.20	349.01
110.00	18.0	315.10	15.45	330.54	165.27	361.44
112.00	18.0	315.56	33.89	349.45	174.72	417.23
114.00	18.0	319.16	38.32	357.48	178.74	434.12
116.00	18.0	*****	Not enough soil data	*****		
118.00	18.0	0.00	0.00	0.00	0.00	0.00
120.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.

3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE  
ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B52\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJL  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 12-17-13, Boring Number: WL2-B52  
 Station number: 828+58 Offset: 61 LT

Ground Elevation: 29.900(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	3.00	3- Clean sand
2	2.00	3.00	3- Clean sand
3	3.00	3.00	2- Clay and silty sand
4	4.00	10.00	3- Clean sand
5	6.00	16.00	3- Clean sand
6	8.00	5.00	2- Clay and silty sand
7	9.00	0.00	3- Clean sand
8	10.00	0.00	2- Clay and silty sand
9	12.50	0.00	2- Clay and silty sand
10	15.00	0.00	2- Clay and silty sand
11	16.25	0.00	3- Clean sand
12	17.50	6.00	2- Clay and silty sand
13	20.00	5.00	2- Clay and silty sand
14	22.50	6.00	2- Clay and silty sand
15	23.75	4.00	3- Clean sand
16	25.00	4.00	2- Clay and silty sand
17	27.50	5.00	2- Clay and silty sand

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18	30.00	3.00	2- Clay and silty sand
19	32.50	3.00	2- Clay and silty sand
20	33.75	3.00	3- Clean sand
21	35.00	5.00	2- Clay and silty sand
22	37.50	7.00	2- Clay and silty sand
23	38.75	7.00	3- Clean sand
24	40.00	21.00	2- Clay and silty sand
25	41.25	3.00	3- Clean sand
26	42.50	3.00	2- Clay and silty sand
27	43.75	3.00	3- Clean sand
28	45.00	6.00	2- Clay and silty sand
29	47.50	5.00	2- Clay and silty sand
30	48.75	5.00	3- Clean sand
31	50.00	25.00	2- Clay and silty sand
32	52.50	15.00	1- Plastic Clay
33	55.00	25.00	1- Plastic Clay
34	57.50	22.00	1- Plastic Clay
35	58.75	22.00	2- Clay and silty sand
36	60.00	50.00	1- Plastic Clay
37	62.50	32.00	1- Plastic Clay
38	65.00	99.00	2- Clay and silty sand
39	67.50	99.00	2- Clay and silty sand
40	70.00	99.00	4- Lime Stone/Very shelly sand
41	72.50	99.00	2- Clay and silty sand
42	75.00	45.00	2- Clay and silty sand
43	77.50	99.00	4- Lime Stone/Very shelly sand
44	80.00	99.00	4- Lime Stone/Very shelly sand
45	82.50	99.00	2- Clay and silty sand
46	85.00	99.00	2- Clay and silty sand
47	86.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	29.90	26.90	3.00	3.00	3-Clean Sand
2	26.90	25.90	1.00	3.00	2-Clay and Silty Sand
3	25.90	21.90	4.00	13.00	3-Clean Sand
4	21.90	20.90	1.00	5.00	2-Clay and Silty Sand
5	20.90	19.90	1.00	0.00	3-Clean Sand
6	19.90	13.65	6.25	0.00	2-Clay and Silty Sand
7	13.65	12.40	1.25	0.00	3-Clean Sand

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8	12.40	6.15	6.25	5.60	2-Clay and Silty Sand
9	6.15	4.90	1.25	4.00	3-Clean Sand
10	4.90	-3.85	8.75	3.86	2-Clay and Silty Sand
11	-3.85	-5.10	1.25	3.00	3-Clean Sand
12	-5.10	-8.85	3.75	5.67	2-Clay and Silty Sand
13	-8.85	-10.10	1.25	7.00	3-Clean Sand
14	-10.10	-11.35	1.25	21.00	2-Clay and Silty Sand
15	-11.35	-12.60	1.25	3.00	3-Clean Sand
16	-12.60	-13.85	1.25	3.00	2-Clay and Silty Sand
17	-13.85	-15.10	1.25	3.00	3-Clean Sand
18	-15.10	-18.85	3.75	5.67	2-Clay and Silty Sand
19	-18.85	-20.10	1.25	5.00	3-Clean Sand
20	-20.10	-22.60	2.50	25.00	2-Clay and Silty Sand
21	-22.60	-28.85	6.25	20.40	1-Plastic Clay
22	-28.85	-30.10	1.25	22.00	2-Clay and Silty Sand
23	-30.10	-35.10	5.00	41.00	1-Plastic Clay
24	-35.10	-40.10	5.00	99.00	2-Clay and Silty Sand
25	-40.10	-42.60	2.50	99.00	4-Limestone, Very
Shelly Sand					
26	-42.60	-47.60	5.00	72.00	2-Clay and Silty Sand
27	-47.60	-52.60	5.00	99.00	4-Limestone, Very
Shelly Sand					
28	-52.60	-56.10	3.50	99.00	2-Clay and Silty Sand
29	-56.10	-56.10	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	19.90
18.00	12.00	17.90
18.00	14.00	15.90
18.00	16.00	13.90
18.00	18.00	11.90
18.00	20.00	9.90
18.00	22.00	7.90
18.00	24.00	5.90
18.00	26.00	3.90
18.00	28.00	1.90
18.00	30.00	-0.10
18.00	32.00	-2.10
18.00	34.00	-4.10

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18.00	36.00	-6.10
18.00	38.00	-8.10
18.00	40.00	-10.10
18.00	42.00	-12.10
18.00	44.00	-14.10
18.00	46.00	-16.10
18.00	48.00	-18.10
18.00	50.00	-20.10
18.00	52.00	-22.10
18.00	54.00	-24.10
18.00	56.00	-26.10
18.00	58.00	-28.10
18.00	60.00	-30.10
18.00	62.00	-32.10
18.00	64.00	-34.10
18.00	66.00	-36.10
18.00	68.00	-38.10
18.00	70.00	-40.10
18.00	72.00	-42.10
18.00	74.00	-44.10
18.00	76.00	-46.10
18.00	78.00	-48.10
18.00	80.00	-50.10
18.00	82.00	-52.10
18.00	84.00	-54.10
18.00	86.00	-56.10
18.00	88.00	-58.10
18.00	90.00	-60.10

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
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10.00	18.0	9.17	7.55	16.72	8.36	31.83
12.00	18.0	9.17	6.63	15.80	7.90	29.07
14.00	18.0	9.17	8.00	17.17	8.59	33.17
16.00	18.0	9.17	9.08	18.25	9.13	36.42
18.00	18.0	11.40	6.79	18.19	9.10	31.77
20.00	18.0	15.02	3.73	18.75	9.38	26.21
22.00	18.0	18.64	3.42	22.07	11.03	28.91
24.00	18.0	20.88	1.69	22.57	11.28	25.95

WL2-B52\_18-PCP.txt

26.00	18.0	21.21	3.86	25.07	12.54	32.80
28.00	18.0	23.74	3.26	27.00	13.50	33.53
30.00	18.0	25.09	3.15	28.24	14.12	34.55
32.00	18.0	25.09	4.18	29.27	14.64	37.64
34.00	18.0	25.13	6.24	31.37	15.68	43.85
36.00	18.0	27.83	8.92	36.75	18.38	54.59
38.00	18.0	32.15	8.32	40.47	20.23	57.11
40.00	18.0	37.38	5.20	42.58	21.29	52.99
42.00	18.0	40.96	2.30	43.26	21.63	47.86
44.00	18.0	41.00	8.34	49.34	24.67	66.02
46.00	18.0	43.85	11.95	55.80	27.90	79.70
48.00	18.0	46.59	13.39	59.98	29.99	86.77
50.00	18.0	52.75	18.15	70.91	35.45	107.21
52.00	18.0	63.57	18.80	82.37	41.19	119.98
54.00	18.0	75.35	14.77	90.11	45.06	119.64
56.00	18.0	87.69	19.11	106.79	53.40	145.01
58.00	18.0	101.34	21.29	122.62	61.31	165.20
60.00	18.0	117.51	29.04	146.55	73.27	204.63
62.00	18.0	132.21	35.07	167.28	83.64	237.42
64.00	18.0	147.30	51.37	198.67	99.33	301.41
66.00	18.0	166.44	63.36	229.79	114.90	356.51
68.00	18.0	179.28	69.73	249.01	124.51	388.48
70.00	18.0	193.41	75.88	269.28	134.64	421.04
72.00	18.0	203.34	77.16	280.51	140.25	434.83
74.00	18.0	219.46	95.48	314.94	157.47	505.90
76.00	18.0	231.76	104.66	336.43	168.21	545.76
78.00	18.0	243.64	115.27	358.91	179.45	589.45
80.00	18.0	250.84	105.23	356.06	178.03	566.51
82.00	18.0	*****	Not enough soil data	*****		
84.00	18.0	0.00	0.00	0.00	0.00	0.00
86.00	18.0	0.00	0.00	0.00	0.00	0.00
88.00	18.0	0.00	0.00	0.00	0.00	0.00
90.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
  4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B53\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 10-24-13, Boring Number: WL2-B53  
 Station number: 828+53 Offset: 70 RT

Ground Elevation: 31.600(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	4.00	3- Clean sand
2	2.00	4.00	3- Clean sand
3	4.00	2.00	3- Clean sand
4	5.00	2.00	2- Clay and silty sand
5	6.00	7.00	3- Clean sand
6	8.00	10.00	3- Clean sand
7	10.00	14.00	3- Clean sand
8	12.50	4.00	4- Lime Stone/Very shelly sand
9	15.00	1.00	2- Clay and silty sand
10	17.50	1.00	2- Clay and silty sand
11	20.00	1.00	2- Clay and silty sand
12	22.50	0.00	2- Clay and silty sand
13	25.00	0.00	2- Clay and silty sand
14	27.50	0.00	2- Clay and silty sand
15	30.00	1.00	2- Clay and silty sand
16	32.50	3.00	2- Clay and silty sand
17	33.75	3.00	3- Clean sand



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18	35.00	8.00	2- Clay and silty sand
19	37.50	6.00	2- Clay and silty sand
20	40.00	5.00	2- Clay and silty sand
21	42.50	9.00	2- Clay and silty sand
22	45.00	9.00	2- Clay and silty sand
23	47.50	11.00	1- Plastic Clay
24	50.00	6.00	1- Plastic Clay
25	52.50	9.00	1- Plastic Clay
26	53.75	9.00	2- Clay and silty sand
27	55.00	17.00	1- Plastic Clay
28	57.50	17.00	1- Plastic Clay
29	60.00	20.00	1- Plastic Clay
30	62.50	23.00	1- Plastic Clay
31	65.00	19.00	1- Plastic Clay
32	67.50	99.00	2- Clay and silty sand
33	70.00	99.00	2- Clay and silty sand
34	72.50	99.00	4- Lime Stone/Very shelly sand
35	75.00	99.00	4- Lime Stone/Very shelly sand
36	77.50	14.00	2- Clay and silty sand
37	78.75	14.00	3- Clean sand
38	80.00	99.00	2- Clay and silty sand
39	82.50	99.00	2- Clay and silty sand
40	85.00	99.00	2- Clay and silty sand
41	87.50	99.00	2- Clay and silty sand
42	90.00	65.00	2- Clay and silty sand
43	91.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	31.60	26.60	5.00	3.60	3-Clean Sand
2	26.60	25.60	1.00	2.00	2-Clay and Silty Sand
3	25.60	19.10	6.50	10.62	3-Clean Sand
4	19.10	16.60	2.50	4.00	4-Limestone, Very Shelly Sand
5	16.60	-2.15	18.75	0.73	2-Clay and Silty Sand
6	-2.15	-3.40	1.25	3.00	3-Clean Sand
7	-3.40	-15.90	12.50	7.40	2-Clay and Silty Sand
8	-15.90	-22.15	6.25	8.60	1-Plastic Clay
9	-22.15	-23.40	1.25	9.00	2-Clay and Silty Sand
10	-23.40	-35.90	12.50	19.20	1-Plastic Clay

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11	-35.90	-40.90	5.00	99.00	2-Clay and Silty Sand
12	-40.90	-45.90	5.00	99.00	4-Limestone, Very
Shelly Sand					
13	-45.90	-47.15	1.25	14.00	2-Clay and Silty Sand
14	-47.15	-48.40	1.25	14.00	3-Clean Sand
15	-48.40	-59.40	11.00	95.91	2-Clay and Silty Sand
16	-59.40	-59.40	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	21.60
18.00	12.00	19.60
18.00	14.00	17.60
18.00	16.00	15.60
18.00	18.00	13.60
18.00	20.00	11.60
18.00	22.00	9.60
18.00	24.00	7.60
18.00	26.00	5.60
18.00	28.00	3.60
18.00	30.00	1.60
18.00	32.00	-0.40
18.00	34.00	-2.40
18.00	36.00	-4.40
18.00	38.00	-6.40
18.00	40.00	-8.40
18.00	42.00	-10.40
18.00	44.00	-12.40
18.00	46.00	-14.40
18.00	48.00	-16.40
18.00	50.00	-18.40
18.00	52.00	-20.40
18.00	54.00	-22.40
18.00	56.00	-24.40
18.00	58.00	-26.40
18.00	60.00	-28.40
18.00	62.00	-30.40
18.00	64.00	-32.40
18.00	66.00	-34.40
18.00	68.00	-36.40

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18.00	70.00	-38.40
18.00	72.00	-40.40
18.00	74.00	-42.40
18.00	76.00	-44.40
18.00	78.00	-46.40
18.00	80.00	-48.40
18.00	82.00	-50.40
18.00	84.00	-52.40
18.00	86.00	-54.40
18.00	88.00	-56.40
18.00	90.00	-58.40

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	6.29	11.58	17.87	8.94	41.04
12.00	18.0	8.67	7.80	16.46	8.23	32.06
14.00	18.0	8.76	0.00	8.76	4.38	8.76
16.00	18.0	8.76	7.69	16.45	8.23	31.83
18.00	18.0	8.76	7.25	16.02	8.01	30.53
20.00	18.0	8.76	5.15	13.91	6.96	24.20
22.00	18.0	8.76	2.17	10.93	5.47	15.27
24.00	18.0	8.76	0.09	8.85	4.43	9.02
26.00	18.0	8.76	0.00	8.76	4.38	8.76
28.00	18.0	8.76	0.00	8.76	4.38	8.76
30.00	18.0	8.76	0.99	9.75	4.88	11.73
32.00	18.0	8.76	2.97	11.74	5.87	17.68
34.00	18.0	8.83	4.41	13.23	6.62	22.04
36.00	18.0	12.75	4.97	17.72	8.86	27.65
38.00	18.0	15.87	5.73	21.60	10.80	33.07
40.00	18.0	18.31	7.68	25.99	13.00	41.34
42.00	18.0	22.27	9.13	31.41	15.70	49.67
44.00	18.0	27.76	8.90	36.66	18.33	54.45
46.00	18.0	33.57	8.35	41.93	20.96	58.63
48.00	18.0	43.85	5.42	49.27	24.63	60.11
50.00	18.0	48.97	6.54	55.51	27.75	68.59
52.00	18.0	54.28	7.82	62.11	31.05	77.75
54.00	18.0	61.63	10.19	71.82	35.91	92.20
56.00	18.0	71.70	10.27	81.97	40.99	102.52
58.00	18.0	82.52	10.88	93.40	46.70	115.16

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60.00	18.0	94.59	11.44	106.03	53.02	128.92	
62.00	18.0	107.73	17.56	125.30	62.65	160.43	
64.00	18.0	121.22	29.28	150.50	75.25	209.06	
66.00	18.0	133.94	42.92	176.86	88.43	262.71	
68.00	18.0	149.09	58.77	207.87	103.93	325.41	
70.00	18.0	160.14	69.81	229.95	114.97	369.57	
72.00	18.0	170.30	82.63	252.93	126.47	418.19	
74.00	18.0	184.85	79.13	263.97	131.99	422.23	
76.00	18.0	192.17	75.15	267.32	133.66	417.62	
78.00	18.0	200.09	44.08	244.17	122.09	332.33	
80.00	18.0	208.23	85.17	293.40	146.70	463.74	
82.00	18.0	223.94	85.17	309.11	154.55	479.45	
84.00	18.0	239.64	82.17	321.82	160.91	486.16	
86.00	18.0	***** Not enough soil data *****					
88.00	18.0	0.00	0.00	0.00	0.00	0.00	
90.00	18.0	0.00	0.00	0.00	0.00	0.00	

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B54\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 12-19-13, Boring Number: WL2-B54  
 Station number: 829+74 Offset: 136 LT

Ground Elevation: 23.400(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	5.00	3- Clean sand
2	2.00	5.00	3- Clean sand
3	3.00	5.00	2- Clay and silty sand
4	4.00	11.00	3- Clean sand
5	6.00	19.00	3- Clean sand
6	7.00	4.00	2- Clay and silty sand
7	8.00	4.00	3- Clean sand
8	10.00	0.00	2- Clay and silty sand
9	12.50	0.00	2- Clay and silty sand
10	15.00	0.00	2- Clay and silty sand
11	17.50	0.00	1- Plastic Clay
12	20.00	2.00	2- Clay and silty sand
13	22.50	0.00	2- Clay and silty sand
14	25.00	0.00	2- Clay and silty sand
15	27.50	0.00	2- Clay and silty sand
16	30.00	2.00	2- Clay and silty sand
17	32.50	1.00	2- Clay and silty sand

WL2-B54\_18-PCP.txt

18	35.00	1.00	2- Clay and silty sand
19	36.25	1.00	3- Clean sand
20	37.50	5.00	2- Clay and silty sand
21	40.00	2.00	1- Plastic Clay
22	42.50	4.00	2- Clay and silty sand
23	45.00	7.00	1- Plastic Clay
24	47.50	7.00	2- Clay and silty sand
25	48.75	7.00	3- Clean sand
26	50.00	26.00	2- Clay and silty sand
27	52.50	21.00	1- Plastic Clay
28	55.00	22.00	1- Plastic Clay
29	57.50	27.00	1- Plastic Clay
30	60.00	38.00	1- Plastic Clay
31	61.25	38.00	2- Clay and silty sand
32	62.50	99.00	1- Plastic Clay
33	65.00	99.00	2- Clay and silty sand
34	67.50	99.00	4- Lime Stone/Very shelly sand
35	70.00	99.00	4- Lime Stone/Very shelly sand
36	72.50	20.00	2- Clay and silty sand
37	73.75	20.00	3- Clean sand
38	75.00	99.00	2- Clay and silty sand
39	77.50	99.00	2- Clay and silty sand
40	80.00	99.00	4- Lime Stone/Very shelly sand
41	82.50	43.00	2- Clay and silty sand
42	85.00	99.00	2- Clay and silty sand
43	87.50	66.00	2- Clay and silty sand
44	90.00	99.00	4- Lime Stone/Very shelly sand
45	92.50	99.00	2- Clay and silty sand
46	95.00	99.00	2- Clay and silty sand
47	96.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	23.40	20.40	3.00	5.00	3-Clean Sand
2	20.40	19.40	1.00	5.00	2-Clay and Silty Sand
3	19.40	16.40	3.00	13.67	3-Clean Sand
4	16.40	15.40	1.00	4.00	2-Clay and Silty Sand
5	15.40	13.40	2.00	4.00	3-Clean Sand
6	13.40	5.90	7.50	0.00	2-Clay and Silty Sand
7	5.90	3.40	2.50	0.00	1-Plastic Clay

WL2-B54\_18-PCP.txt

8	3.40	-12.85	16.25	0.85	2-Clay and Silty Sand
9	-12.85	-14.10	1.25	1.00	3-Clean Sand
10	-14.10	-16.60	2.50	5.00	2-Clay and Silty Sand
11	-16.60	-19.10	2.50	2.00	1-Plastic Clay
12	-19.10	-21.60	2.50	4.00	2-Clay and Silty Sand
13	-21.60	-24.10	2.50	7.00	1-Plastic Clay
14	-24.10	-25.35	1.25	7.00	2-Clay and Silty Sand
15	-25.35	-26.60	1.25	7.00	3-Clean Sand
16	-26.60	-29.10	2.50	26.00	2-Clay and Silty Sand
17	-29.10	-37.85	8.75	25.43	1-Plastic Clay
18	-37.85	-39.10	1.25	38.00	2-Clay and Silty Sand
19	-39.10	-41.60	2.50	99.00	1-Plastic Clay
20	-41.60	-44.10	2.50	99.00	2-Clay and Silty Sand
21	-44.10	-49.10	5.00	99.00	4-Limestone, Very
Shelly Sand					
22	-49.10	-50.35	1.25	20.00	2-Clay and Silty Sand
23	-50.35	-51.60	1.25	20.00	3-Clean Sand
24	-51.60	-56.60	5.00	99.00	2-Clay and Silty Sand
25	-56.60	-59.10	2.50	99.00	4-Limestone, Very
Shelly Sand					
26	-59.10	-66.60	7.50	69.33	2-Clay and Silty Sand
27	-66.60	-69.10	2.50	99.00	4-Limestone, Very
Shelly Sand					
28	-69.10	-72.60	3.50	99.00	2-Clay and Silty Sand
29	-72.60	-72.60	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	13.40
18.00	12.00	11.40
18.00	14.00	9.40
18.00	16.00	7.40
18.00	18.00	5.40
18.00	20.00	3.40
18.00	22.00	1.40
18.00	24.00	-0.60
18.00	26.00	-2.60
18.00	28.00	-4.60
18.00	30.00	-6.60
18.00	32.00	-8.60

WL2-B54\_18-PCP.txt

18.00	34.00	-10.60
18.00	36.00	-12.60
18.00	38.00	-14.60
18.00	40.00	-16.60
18.00	42.00	-18.60
18.00	44.00	-20.60
18.00	46.00	-22.60
18.00	48.00	-24.60
18.00	50.00	-26.60
18.00	52.00	-28.60
18.00	54.00	-30.60
18.00	56.00	-32.60
18.00	58.00	-34.60
18.00	60.00	-36.60
18.00	62.00	-38.60
18.00	64.00	-40.60
18.00	66.00	-42.60
18.00	68.00	-44.60
18.00	70.00	-46.60
18.00	72.00	-48.60
18.00	74.00	-50.60
18.00	76.00	-52.60
18.00	78.00	-54.60
18.00	80.00	-56.60
18.00	82.00	-58.60
18.00	84.00	-60.60
18.00	86.00	-62.60
18.00	88.00	-64.60
18.00	90.00	-66.60
18.00	92.00	-68.60
18.00	94.00	-70.60

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	9.81	8.93	18.74	9.37	36.60
12.00	18.0	9.81	7.44	17.25	8.63	32.13
14.00	18.0	9.81	6.20	16.01	8.01	28.41
16.00	18.0	9.81	4.90	14.71	7.36	24.51
18.00	18.0	9.81	1.18	10.99	5.50	13.35



WL2-B54\_18-PCP.txt

20.00	18.0	9.81	0.00	9.81	4.91	9.81
22.00	18.0	9.81	0.00	9.81	4.91	9.81
24.00	18.0	9.81	0.00	9.81	4.91	9.81
26.00	18.0	9.81	0.00	9.81	4.91	9.81
28.00	18.0	9.81	0.00	9.81	4.91	9.81
30.00	18.0	9.81	0.00	9.81	4.91	9.81
32.00	18.0	9.81	0.28	10.10	5.05	10.66
34.00	18.0	9.81	1.25	11.06	5.53	13.56
36.00	18.0	9.81	1.33	11.14	5.57	13.80
38.00	18.0	11.62	0.95	12.57	6.29	14.47
40.00	18.0	12.97	1.32	14.29	7.14	16.92
42.00	18.0	12.97	1.83	14.80	7.40	18.46
44.00	18.0	13.69	3.84	17.53	8.76	25.20
46.00	18.0	18.34	9.78	28.12	14.06	47.69
48.00	18.0	23.43	13.59	37.02	18.51	64.20
50.00	18.0	29.21	19.82	49.04	24.52	88.68
52.00	18.0	41.33	20.49	61.81	30.91	102.79
54.00	18.0	55.37	15.27	70.64	35.32	101.18
56.00	18.0	67.73	19.38	87.12	43.56	125.89
58.00	18.0	82.67	24.57	107.23	53.62	156.37
60.00	18.0	99.38	32.74	132.12	66.06	197.59
62.00	18.0	116.65	43.78	160.44	80.22	248.00
64.00	18.0	132.41	64.74	197.16	98.58	326.64
66.00	18.0	149.43	86.01	235.44	117.72	407.45
68.00	18.0	158.99	85.05	244.04	122.02	414.15
70.00	18.0	166.19	78.37	244.56	122.28	401.30
72.00	18.0	174.93	78.57	253.51	126.75	410.65
74.00	18.0	183.64	87.12	270.77	135.38	445.02
76.00	18.0	196.89	99.32	296.21	148.11	494.86
78.00	18.0	211.60	101.99	313.59	156.79	517.58
80.00	18.0	223.46	93.73	317.19	158.59	504.65
82.00	18.0	234.11	80.79	314.90	157.45	476.47
84.00	18.0	249.14	71.30	320.44	160.22	463.04
86.00	18.0	261.26	81.40	342.65	171.33	505.45
88.00	18.0	275.31	90.65	365.96	182.98	547.26
90.00	18.0	291.51	95.54	387.05	193.53	578.13
92.00	18.0	*****	Not enough soil data	*****		
94.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.

WL2-B54\_18-PCP.txt

4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
3 X THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE  
ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
2 X THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B55\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 12-23-13, Boring Number: WL2-B55  
 Station number: 830+82 Offset: 64 LT

Ground Elevation: 28.800(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	4.00	3- Clean sand
2	2.00	4.00	3- Clean sand
3	3.00	4.00	2- Clay and silty sand
4	4.00	7.00	3- Clean sand
5	6.00	5.00	3- Clean sand
6	7.00	4.00	2- Clay and silty sand
7	8.00	4.00	3- Clean sand
8	10.00	0.00	2- Clay and silty sand
9	12.50	0.00	2- Clay and silty sand
10	15.00	0.00	2- Clay and silty sand
11	17.50	0.00	1- Plastic Clay
12	20.00	0.00	2- Clay and silty sand
13	22.50	0.00	2- Clay and silty sand
14	25.00	0.00	2- Clay and silty sand
15	27.50	0.00	2- Clay and silty sand
16	30.00	2.00	2- Clay and silty sand
17	32.50	2.00	2- Clay and silty sand

WL2-B55\_18-PCP.txt

18	35.00	2.00	2- Clay and silty sand
19	37.50	2.00	2- Clay and silty sand
20	40.00	2.00	1- Plastic Clay
21	42.50	12.00	2- Clay and silty sand
22	45.00	5.00	2- Clay and silty sand
23	47.50	8.00	2- Clay and silty sand
24	50.00	11.00	2- Clay and silty sand
25	52.50	9.00	2- Clay and silty sand
26	53.75	9.00	3- Clean sand
27	55.00	18.00	2- Clay and silty sand
28	57.50	25.00	2- Clay and silty sand
29	58.75	25.00	3- Clean sand
30	60.00	51.00	2- Clay and silty sand
31	62.50	48.00	2- Clay and silty sand
32	65.00	99.00	2- Clay and silty sand
33	67.50	99.00	2- Clay and silty sand
34	70.00	99.00	2- Clay and silty sand
35	72.50	99.00	2- Clay and silty sand
36	75.00	82.00	2- Clay and silty sand
37	77.50	99.00	4- Lime Stone/Very shelly sand
38	80.00	99.00	4- Lime Stone/Very shelly sand
39	81.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	28.80	25.80	3.00	4.00	3-Clean Sand
2	25.80	24.80	1.00	4.00	2-Clay and Silty Sand
3	24.80	21.80	3.00	6.33	3-Clean Sand
4	21.80	20.80	1.00	4.00	2-Clay and Silty Sand
5	20.80	18.80	2.00	4.00	3-Clean Sand
6	18.80	11.30	7.50	0.00	2-Clay and Silty Sand
7	11.30	8.80	2.50	0.00	1-Plastic Clay
8	8.80	-11.20	20.00	1.00	2-Clay and Silty Sand
9	-11.20	-13.70	2.50	2.00	1-Plastic Clay
10	-13.70	-24.95	11.25	9.00	2-Clay and Silty Sand
11	-24.95	-26.20	1.25	9.00	3-Clean Sand
12	-26.20	-29.95	3.75	20.33	2-Clay and Silty Sand
13	-29.95	-31.20	1.25	25.00	3-Clean Sand
14	-31.20	-48.70	17.50	82.43	2-Clay and Silty Sand
15	-48.70	-52.20	3.50	99.00	4-Limestone, Very

Shelly Sand  
 16      -52.20      -52.20      0.00      0.00      5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	18.80
18.00	12.00	16.80
18.00	14.00	14.80
18.00	16.00	12.80
18.00	18.00	10.80
18.00	20.00	8.80
18.00	22.00	6.80
18.00	24.00	4.80
18.00	26.00	2.80
18.00	28.00	0.80
18.00	30.00	-1.20
18.00	32.00	-3.20
18.00	34.00	-5.20
18.00	36.00	-7.20
18.00	38.00	-9.20
18.00	40.00	-11.20
18.00	42.00	-13.20
18.00	44.00	-15.20
18.00	46.00	-17.20
18.00	48.00	-19.20
18.00	50.00	-21.20
18.00	52.00	-23.20
18.00	54.00	-25.20
18.00	56.00	-27.20
18.00	58.00	-29.20
18.00	60.00	-31.20
18.00	62.00	-33.20
18.00	64.00	-35.20
18.00	66.00	-37.20
18.00	68.00	-39.20
18.00	70.00	-41.20
18.00	72.00	-43.20
18.00	74.00	-45.20
18.00	76.00	-47.20
18.00	78.00	-49.20

18.00 80.00 -51.20

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	2.54	2.68	5.22	2.61	10.58
12.00	18.0	2.54	2.23	4.78	2.39	9.24
14.00	18.0	2.54	2.23	4.78	2.39	9.24
16.00	18.0	2.54	1.80	4.34	2.17	7.94
18.00	18.0	2.54	0.31	2.85	1.43	3.47
20.00	18.0	2.54	0.00	2.54	1.27	2.54
22.00	18.0	2.54	0.00	2.54	1.27	2.54
24.00	18.0	2.54	0.00	2.54	1.27	2.54
26.00	18.0	2.54	0.00	2.54	1.27	2.54
28.00	18.0	2.54	0.00	2.54	1.27	2.54
30.00	18.0	2.54	0.00	2.54	1.27	2.54
32.00	18.0	2.54	0.00	2.54	1.27	2.54
34.00	18.0	2.54	0.00	2.54	1.27	2.54
36.00	18.0	2.54	0.53	3.08	1.54	4.14
38.00	18.0	2.54	3.29	5.83	2.92	12.41
40.00	18.0	2.54	5.32	7.86	3.93	18.50
42.00	18.0	5.18	6.04	11.21	5.61	23.29
44.00	18.0	11.40	6.73	18.12	9.06	31.57
46.00	18.0	13.96	8.16	22.12	11.06	38.45
48.00	18.0	17.63	10.70	28.32	14.16	49.72
50.00	18.0	23.29	14.50	37.79	18.89	66.79
52.00	18.0	29.56	18.97	48.53	24.26	86.46
54.00	18.0	37.73	26.11	63.83	31.92	116.05
56.00	18.0	46.08	32.91	78.99	39.50	144.82
58.00	18.0	54.79	38.96	93.75	46.87	171.68
60.00	18.0	69.08	51.12	120.20	60.10	222.45
62.00	18.0	83.68	52.72	136.40	68.20	241.85
64.00	18.0	97.22	57.51	154.73	77.37	269.76
66.00	18.0	111.18	65.11	176.28	88.14	306.50
68.00	18.0	126.89	68.79	195.68	97.84	333.25
70.00	18.0	142.60	71.84	214.43	107.22	358.10
72.00	18.0	158.31	80.62	238.92	119.46	400.16
74.00	18.0	174.02	97.67	271.69	135.84	467.04
76.00	18.0	*****	Not enough	soil data	*****	
78.00	18.0	0.00	0.00	0.00	0.00	0.00

WL2-B55\_18-PCP.txt  
80.00 18.0 0.00 0.00 0.00 0.00 0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B56\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 10-29-13, Boring Number: WL2-B56  
 Station number: 830+75 Offset: 67 RT

Ground Elevation: 31.400(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	6.00	3- Clean sand
2	2.00	6.00	3- Clean sand
3	3.00	4.00	2- Clay and silty sand
4	4.00	4.00	3- Clean sand
5	6.00	4.00	3- Clean sand
6	7.00	4.00	2- Clay and silty sand
7	8.00	14.00	3- Clean sand
8	9.00	3.00	2- Clay and silty sand
9	10.00	3.00	3- Clean sand
10	12.50	2.00	2- Clay and silty sand
11	15.00	0.00	2- Clay and silty sand
12	17.50	0.00	2- Clay and silty sand
13	20.00	0.00	1- Plastic Clay
14	22.50	2.00	2- Clay and silty sand
15	25.00	0.00	2- Clay and silty sand
16	27.50	0.00	2- Clay and silty sand
17	30.00	0.00	2- Clay and silty sand



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18	32.50	1.00	2- Clay and silty sand
19	35.00	4.00	2- Clay and silty sand
20	37.50	4.00	2- Clay and silty sand
21	40.00	4.00	2- Clay and silty sand
22	42.50	9.00	1- Plastic Clay
23	45.00	10.00	1- Plastic Clay
24	47.50	8.00	2- Clay and silty sand
25	50.00	6.00	2- Clay and silty sand
26	52.50	12.00	1- Plastic Clay
27	55.00	16.00	1- Plastic Clay
28	57.50	16.00	1- Plastic Clay
29	60.00	14.00	2- Clay and silty sand
30	61.25	14.00	3- Clean sand
31	62.50	51.00	2- Clay and silty sand
32	65.00	99.00	2- Clay and silty sand
33	67.50	99.00	2- Clay and silty sand
34	70.00	99.00	4- Lime Stone/Very shelly sand
35	72.50	99.00	4- Lime Stone/Very shelly sand
36	75.00	99.00	2- Clay and silty sand
37	77.50	60.00	2- Clay and silty sand
38	80.00	99.00	2- Clay and silty sand
39	81.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	31.40	28.40	3.00	6.00	3-Clean Sand
2	28.40	27.40	1.00	4.00	2-Clay and Silty Sand
3	27.40	24.40	3.00	4.00	3-Clean Sand
4	24.40	23.40	1.00	4.00	2-Clay and Silty Sand
5	23.40	22.40	1.00	14.00	3-Clean Sand
6	22.40	21.40	1.00	3.00	2-Clay and Silty Sand
7	21.40	18.90	2.50	3.00	3-Clean Sand
8	18.90	11.40	7.50	0.67	2-Clay and Silty Sand
9	11.40	8.90	2.50	0.00	1-Plastic Clay
10	8.90	-11.10	20.00	1.88	2-Clay and Silty Sand
11	-11.10	-16.10	5.00	9.50	1-Plastic Clay
12	-16.10	-21.10	5.00	7.00	2-Clay and Silty Sand
13	-21.10	-28.60	7.50	14.67	1-Plastic Clay
14	-28.60	-29.85	1.25	14.00	2-Clay and Silty Sand
15	-29.85	-31.10	1.25	14.00	3-Clean Sand

			WL2-B56_18-PCP.txt		
16	-31.10	-38.60	7.50	83.00	2-Clay and Silty Sand
17	-38.60	-43.60	5.00	99.00	4-Limestone, Very
Shelly Sand					
18	-43.60	-49.60	6.00	82.75	2-Clay and Silty Sand
19	-49.60	-49.60	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	21.40
18.00	12.00	19.40
18.00	14.00	17.40
18.00	16.00	15.40
18.00	18.00	13.40
18.00	20.00	11.40
18.00	22.00	9.40
18.00	24.00	7.40
18.00	26.00	5.40
18.00	28.00	3.40
18.00	30.00	1.40
18.00	32.00	-0.60
18.00	34.00	-2.60
18.00	36.00	-4.60
18.00	38.00	-6.60
18.00	40.00	-8.60
18.00	42.00	-10.60
18.00	44.00	-12.60
18.00	46.00	-14.60
18.00	48.00	-16.60
18.00	50.00	-18.60
18.00	52.00	-20.60
18.00	54.00	-22.60
18.00	56.00	-24.60
18.00	58.00	-26.60
18.00	60.00	-28.60
18.00	62.00	-30.60
18.00	64.00	-32.60
18.00	66.00	-34.60
18.00	68.00	-36.60
18.00	70.00	-38.60
18.00	72.00	-40.60

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18.00	74.00	-42.60
18.00	76.00	-44.60
18.00	78.00	-46.60
18.00	80.00	-48.60

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	4.10	4.32	8.41	4.21	17.05
12.00	18.0	4.10	3.60	7.70	3.85	14.89
14.00	18.0	4.10	2.11	6.21	3.10	10.42
16.00	18.0	4.10	1.74	5.84	2.92	9.31
18.00	18.0	4.10	1.74	5.84	2.92	9.31
20.00	18.0	4.10	0.87	4.97	2.48	6.70
22.00	18.0	4.10	0.00	4.10	2.05	4.10
24.00	18.0	4.10	0.00	4.10	2.05	4.10
26.00	18.0	4.10	0.00	4.10	2.05	4.10
28.00	18.0	4.10	0.00	4.10	2.05	4.10
30.00	18.0	4.10	0.00	4.10	2.05	4.10
32.00	18.0	4.10	0.00	4.10	2.05	4.10
34.00	18.0	4.10	0.00	4.10	2.05	4.10
36.00	18.0	4.10	0.17	4.27	2.14	4.62
38.00	18.0	4.10	1.12	5.22	2.61	7.47
40.00	18.0	4.10	2.33	6.43	3.22	11.09
42.00	18.0	6.74	3.83	10.58	5.29	18.24
44.00	18.0	12.57	4.77	17.35	8.67	26.89
46.00	18.0	18.76	6.24	25.01	12.50	37.50
48.00	18.0	25.92	6.58	32.50	16.25	45.66
50.00	18.0	29.90	6.92	36.82	18.41	50.66
52.00	18.0	34.58	8.00	42.58	21.29	58.59
54.00	18.0	44.45	9.37	53.82	26.91	72.56
56.00	18.0	53.51	13.49	67.00	33.50	93.99
58.00	18.0	64.11	23.68	87.79	43.89	135.14
60.00	18.0	75.56	34.72	110.28	55.14	179.72
62.00	18.0	82.06	40.77	122.82	61.41	204.36
64.00	18.0	95.62	47.32	142.95	71.47	237.60
66.00	18.0	105.19	62.89	168.08	84.04	293.87
68.00	18.0	116.12	92.42	208.55	104.27	393.40
70.00	18.0	139.17	101.31	240.47	120.24	443.09
72.00	18.0	146.37	96.28	242.64	121.32	435.19

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74.00	18.0	155.48	91.59	247.07	123.54	430.25
76.00	18.0	*****	Not enough soil data *****			
78.00	18.0	0.00	0.00	0.00	0.00	0.00
80.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....culations-Analyses\FB-Deep\Wildlife No 2\WL2-B57\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 12-26-13, Boring Number: WL2-B57  
 Station number: 831+95 Offset: 140 LT

Ground Elevation: 28.700(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	3.00	3- Clean sand
2	2.00	3.00	3- Clean sand
3	4.00	4.00	3- Clean sand
4	5.00	4.00	2- Clay and silty sand
5	6.00	12.00	3- Clean sand
6	8.00	4.00	2- Clay and silty sand
7	10.00	0.00	2- Clay and silty sand
8	12.50	1.00	2- Clay and silty sand
9	15.00	1.00	1- Plastic Clay
10	17.50	5.00	2- Clay and silty sand
11	18.75	2.00	3- Clean sand
12	20.00	2.00	2- Clay and silty sand
13	22.50	0.00	2- Clay and silty sand
14	25.00	0.00	2- Clay and silty sand
15	27.50	2.00	2- Clay and silty sand
16	30.00	2.00	2- Clay and silty sand
17	32.50	4.00	2- Clay and silty sand

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18	33.75	4.00	3- Clean sand
19	35.00	7.00	2- Clay and silty sand
20	36.25	3.00	3- Clean sand
21	37.50	3.00	2- Clay and silty sand
22	38.75	3.00	3- Clean sand
23	40.00	9.00	2- Clay and silty sand
24	42.50	10.00	2- Clay and silty sand
25	45.00	5.00	2- Clay and silty sand
26	47.50	7.00	2- Clay and silty sand
27	48.75	7.00	3- Clean sand
28	50.00	17.00	2- Clay and silty sand
29	52.50	24.00	2- Clay and silty sand
30	55.00	24.00	2- Clay and silty sand
31	57.50	22.00	2- Clay and silty sand
32	58.75	22.00	3- Clean sand
33	60.00	61.00	2- Clay and silty sand
34	61.25	36.00	3- Clean sand
35	62.50	36.00	2- Clay and silty sand
36	65.00	99.00	4- Lime Stone/Very shelly sand
37	67.50	99.00	2- Clay and silty sand
38	70.00	99.00	4- Lime Stone/Very shelly sand
39	72.50	99.00	4- Lime Stone/Very shelly sand
40	75.00	99.00	4- Lime Stone/Very shelly sand
41	77.50	99.00	2- Clay and silty sand
42	80.00	99.00	4- Lime Stone/Very shelly sand
43	81.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	28.70	23.70	5.00	3.20	3-Clean Sand
2	23.70	22.70	1.00	4.00	2-Clay and Silty Sand
3	22.70	20.70	2.00	12.00	3-Clean Sand
4	20.70	13.70	7.00	1.50	2-Clay and Silty Sand
5	13.70	11.20	2.50	1.00	1-Plastic Clay
6	11.20	9.95	1.25	5.00	2-Clay and Silty Sand
7	9.95	8.70	1.25	2.00	3-Clean Sand
8	8.70	-5.05	13.75	1.45	2-Clay and Silty Sand
9	-5.05	-6.30	1.25	4.00	3-Clean Sand
10	-6.30	-7.55	1.25	7.00	2-Clay and Silty Sand
11	-7.55	-8.80	1.25	3.00	3-Clean Sand

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12	-8.80	-10.05	1.25	3.00	2-Clay and Silty Sand
13	-10.05	-11.30	1.25	3.00	3-Clean Sand
14	-11.30	-20.05	8.75	7.86	2-Clay and Silty Sand
15	-20.05	-21.30	1.25	7.00	3-Clean Sand
16	-21.30	-30.05	8.75	21.71	2-Clay and Silty Sand
17	-30.05	-31.30	1.25	22.00	3-Clean Sand
18	-31.30	-32.55	1.25	61.00	2-Clay and Silty Sand
19	-32.55	-33.80	1.25	36.00	3-Clean Sand
20	-33.80	-36.30	2.50	36.00	2-Clay and Silty Sand
21	-36.30	-38.80	2.50	99.00	4-Limestone, Very
Shelly Sand					
22	-38.80	-41.30	2.50	99.00	2-Clay and Silty Sand
23	-41.30	-48.80	7.50	99.00	4-Limestone, Very
Shelly Sand					
24	-48.80	-51.30	2.50	99.00	2-Clay and Silty Sand
25	-51.30	-52.30	1.00	99.00	4-Limestone, Very
Shelly Sand					
26	-52.30	-52.30	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	18.70
18.00	12.00	16.70
18.00	14.00	14.70
18.00	16.00	12.70
18.00	18.00	10.70
18.00	20.00	8.70
18.00	22.00	6.70
18.00	24.00	4.70
18.00	26.00	2.70
18.00	28.00	0.70
18.00	30.00	-1.30
18.00	32.00	-3.30
18.00	34.00	-5.30
18.00	36.00	-7.30
18.00	38.00	-9.30
18.00	40.00	-11.30
18.00	42.00	-13.30
18.00	44.00	-15.30
18.00	46.00	-17.30

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18.00	48.00	-19.30
18.00	50.00	-21.30
18.00	52.00	-23.30
18.00	54.00	-25.30
18.00	56.00	-27.30
18.00	58.00	-29.30
18.00	60.00	-31.30
18.00	62.00	-33.30
18.00	64.00	-35.30
18.00	66.00	-37.30
18.00	68.00	-39.30
18.00	70.00	-41.30
18.00	72.00	-43.30
18.00	74.00	-45.30
18.00	76.00	-47.30
18.00	78.00	-49.30
18.00	80.00	-51.30

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	2.54	2.69	5.23	2.62	10.61
12.00	18.0	2.54	0.72	3.26	1.63	4.70
14.00	18.0	2.54	1.33	3.87	1.94	6.53
16.00	18.0	2.88	3.48	6.36	3.18	13.32
18.00	18.0	5.32	2.16	7.48	3.74	11.80
20.00	18.0	5.70	0.58	6.29	3.14	7.45
22.00	18.0	5.70	0.58	6.29	3.14	7.45
24.00	18.0	5.70	0.58	6.29	3.14	7.45
26.00	18.0	5.70	0.58	6.29	3.14	7.45
28.00	18.0	5.70	0.52	6.22	3.11	7.26
30.00	18.0	5.70	0.91	6.62	3.31	8.44
32.00	18.0	5.70	1.24	6.94	3.47	9.42
34.00	18.0	5.76	1.27	7.03	3.52	9.58
36.00	18.0	8.11	2.17	10.28	5.14	14.63
38.00	18.0	8.58	5.10	13.69	6.84	23.89
40.00	18.0	10.39	7.09	17.48	8.74	31.67
42.00	18.0	16.25	7.16	23.41	11.71	37.74
44.00	18.0	20.38	8.38	28.76	14.38	45.53
46.00	18.0	22.28	13.14	35.42	17.71	61.69



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48.00	18.0	26.64	18.01	44.65	22.33	80.67
50.00	18.0	34.75	22.54	57.29	28.65	102.38
52.00	18.0	44.57	23.55	68.12	34.06	115.21
54.00	18.0	54.06	27.78	81.84	40.92	137.40
56.00	18.0	62.42	41.17	103.60	51.80	185.94
58.00	18.0	74.15	51.27	125.42	62.71	227.95
60.00	18.0	92.02	68.00	160.02	80.01	296.01
62.00	18.0	104.50	100.29	204.79	102.40	405.38
64.00	18.0	117.07	81.89	198.96	99.48	362.75
66.00	18.0	126.30	93.02	219.32	109.66	405.36
68.00	18.0	140.00	111.92	251.92	125.96	475.75
70.00	18.0	150.75	130.66	281.42	140.71	542.75
72.00	18.0	157.95	130.27	288.23	144.11	548.77
74.00	18.0	165.15	124.48	289.63	144.81	538.58
76.00	18.0	*****	Not enough soil data	*****		
78.00	18.0	0.00	0.00	0.00	0.00	0.00
80.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSEON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSEON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B58\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJI  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 12-24-13, Boring Number: WL2-B58  
 Station number: 831+95 Offset: 24 LT

Ground Elevation: 30.000(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	4.00	3- Clean sand
2	2.00	4.00	3- Clean sand
3	4.00	2.00	3- Clean sand
4	5.00	2.00	2- Clay and silty sand
5	6.00	11.00	3- Clean sand
6	8.00	5.00	3- Clean sand
7	9.00	4.00	2- Clay and silty sand
8	10.00	4.00	3- Clean sand
9	12.50	0.00	3- Clean sand
10	15.00	0.00	2- Clay and silty sand
11	17.50	0.00	1- Plastic Clay
12	20.00	0.00	2- Clay and silty sand
13	22.50	0.00	2- Clay and silty sand
14	25.00	0.00	2- Clay and silty sand
15	27.50	0.00	2- Clay and silty sand
16	30.00	0.00	2- Clay and silty sand
17	32.50	3.00	2- Clay and silty sand

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18	33.75	3.00	3- Clean sand
19	35.00	9.00	2- Clay and silty sand
20	37.50	9.00	2- Clay and silty sand
21	40.00	10.00	2- Clay and silty sand
22	42.50	9.00	2- Clay and silty sand
23	45.00	5.00	2- Clay and silty sand
24	47.50	8.00	2- Clay and silty sand
25	50.00	12.00	2- Clay and silty sand
26	52.50	14.00	2- Clay and silty sand
27	55.00	14.00	2- Clay and silty sand
28	57.50	12.00	2- Clay and silty sand
29	58.75	12.00	3- Clean sand
30	60.00	16.00	2- Clay and silty sand
31	62.50	28.00	2- Clay and silty sand
32	65.00	17.00	2- Clay and silty sand
33	67.50	99.00	4- Lime Stone/Very shelly sand
34	70.00	99.00	4- Lime Stone/Very shelly sand
35	72.50	99.00	2- Clay and silty sand
36	75.00	99.00	2- Clay and silty sand
37	77.50	99.00	2- Clay and silty sand
38	80.00	99.00	2- Clay and silty sand
39	82.50	99.00	2- Clay and silty sand
40	85.00	99.00	2- Clay and silty sand
41	86.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	30.00	25.00	5.00	3.60	3-Clean Sand
2	25.00	24.00	1.00	2.00	2-Clay and Silty Sand
3	24.00	21.00	3.00	9.00	3-Clean Sand
4	21.00	20.00	1.00	4.00	2-Clay and Silty Sand
5	20.00	15.00	5.00	2.00	3-Clean Sand
6	15.00	12.50	2.50	0.00	2-Clay and Silty Sand
7	12.50	10.00	2.50	0.00	1-Plastic Clay
8	10.00	-3.75	13.75	0.27	2-Clay and Silty Sand
9	-3.75	-5.00	1.25	3.00	3-Clean Sand
10	-5.00	-28.75	23.75	10.11	2-Clay and Silty Sand
11	-28.75	-30.00	1.25	12.00	3-Clean Sand
12	-30.00	-37.50	7.50	20.33	2-Clay and Silty Sand
13	-37.50	-42.50	5.00	99.00	4-Limestone, Very

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Shelly Sand

14	-42.50	-56.00	13.50	99.00	2-Clay and Silty Sand
15	-56.00	-56.00	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	20.00
18.00	12.00	18.00
18.00	14.00	16.00
18.00	16.00	14.00
18.00	18.00	12.00
18.00	20.00	10.00
18.00	22.00	8.00
18.00	24.00	6.00
18.00	26.00	4.00
18.00	28.00	2.00
18.00	30.00	0.00
18.00	32.00	-2.00
18.00	34.00	-4.00
18.00	36.00	-6.00
18.00	38.00	-8.00
18.00	40.00	-10.00
18.00	42.00	-12.00
18.00	44.00	-14.00
18.00	46.00	-16.00
18.00	48.00	-18.00
18.00	50.00	-20.00
18.00	52.00	-22.00
18.00	54.00	-24.00
18.00	56.00	-26.00
18.00	58.00	-28.00
18.00	60.00	-30.00
18.00	62.00	-32.00
18.00	64.00	-34.00
18.00	66.00	-36.00
18.00	68.00	-38.00
18.00	70.00	-40.00
18.00	72.00	-42.00
18.00	74.00	-44.00
18.00	76.00	-46.00

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18.00	78.00	-48.00
18.00	80.00	-50.00
18.00	82.00	-52.00
18.00	84.00	-54.00

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	3.39	3.57	6.96	3.48	14.11
12.00	18.0	3.39	2.98	6.37	3.18	12.32
14.00	18.0	3.39	2.98	6.37	3.18	12.32
16.00	18.0	3.39	2.98	6.37	3.18	12.32
18.00	18.0	3.39	2.29	5.69	2.84	10.27
20.00	18.0	3.39	0.31	3.70	1.85	4.32
22.00	18.0	3.39	0.00	3.39	1.70	3.39
24.00	18.0	3.39	0.00	3.39	1.70	3.39
26.00	18.0	3.39	0.00	3.39	1.70	3.39
28.00	18.0	3.39	0.00	3.39	1.70	3.39
30.00	18.0	3.39	1.12	4.51	2.25	6.74
32.00	18.0	3.39	3.67	7.06	3.53	14.39
34.00	18.0	3.46	5.97	9.43	4.72	21.38
36.00	18.0	7.87	7.37	15.23	7.62	29.96
38.00	18.0	12.61	8.13	20.74	10.37	37.00
40.00	18.0	18.13	8.91	27.05	13.52	44.87
42.00	18.0	24.13	9.56	33.69	16.84	52.80
44.00	18.0	29.43	10.87	40.30	20.15	62.04
46.00	18.0	33.35	13.37	46.72	23.36	73.47
48.00	18.0	38.22	15.18	53.40	26.70	83.75
50.00	18.0	44.70	16.36	61.06	30.53	93.79
52.00	18.0	52.42	16.82	69.24	34.62	102.87
54.00	18.0	60.73	18.61	79.33	39.67	116.55
56.00	18.0	68.98	20.72	89.70	44.85	131.14
58.00	18.0	76.38	25.16	101.54	50.77	151.87
60.00	18.0	84.19	26.97	111.16	55.58	165.09
62.00	18.0	92.24	31.38	123.62	61.81	186.37
64.00	18.0	98.68	52.51	151.19	75.60	256.21
66.00	18.0	106.27	87.38	193.65	96.83	368.42
68.00	18.0	125.73	88.00	213.73	106.86	389.73
70.00	18.0	132.93	82.74	215.67	107.83	381.15
72.00	18.0	143.53	80.46	223.98	111.99	384.90

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74.00	18.0	159.03	72.00	231.03	115.51	375.03
76.00	18.0	174.73	72.00	246.73	123.37	390.73
78.00	18.0	190.44	72.00	262.44	131.22	406.44
80.00	18.0	206.15	71.79	277.94	138.97	421.51
82.00	18.0	***** Not enough soil data *****				
84.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 X THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 X THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B59\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 12-30-13, Boring Number: WL2-B59  
 Station number: 833+10 Offset: 65 LT

Ground Elevation: 30.000(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	5.00	3- Clean sand
2	2.00	5.00	3- Clean sand
3	3.00	2.00	2- Clay and silty sand
4	4.00	2.00	3- Clean sand
5	5.00	2.00	2- Clay and silty sand
6	6.00	9.00	3- Clean sand
7	8.00	11.00	3- Clean sand
8	10.00	3.00	2- Clay and silty sand
9	12.50	2.00	2- Clay and silty sand
10	15.00	0.00	2- Clay and silty sand
11	17.50	2.00	2- Clay and silty sand
12	20.00	0.00	2- Clay and silty sand
13	22.50	0.00	2- Clay and silty sand
14	25.00	0.00	2- Clay and silty sand
15	27.50	3.00	2- Clay and silty sand
16	30.00	4.00	2- Clay and silty sand
17	31.25	4.00	3- Clean sand

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18	32.50	5.00	2- Clay and silty sand
19	35.00	6.00	2- Clay and silty sand
20	37.50	6.00	1- Plastic Clay
21	40.00	8.00	2- Clay and silty sand
22	42.50	11.00	2- Clay and silty sand
23	45.00	7.00	2- Clay and silty sand
24	47.50	6.00	2- Clay and silty sand
25	50.00	11.00	2- Clay and silty sand
26	52.50	15.00	2- Clay and silty sand
27	55.00	21.00	1- Plastic Clay
28	57.50	18.00	1- Plastic Clay
29	60.00	20.00	2- Clay and silty sand
30	62.50	22.00	2- Clay and silty sand
31	65.00	22.00	1- Plastic Clay
32	67.50	99.00	2- Clay and silty sand
33	70.00	99.00	4- Lime Stone/Very shelly sand
34	72.50	99.00	2- Clay and silty sand
35	75.00	99.00	4- Lime Stone/Very shelly sand
36	77.50	99.00	4- Lime Stone/Very shelly sand
37	80.00	47.00	2- Clay and silty sand
38	82.50	99.00	2- Clay and silty sand
39	85.00	99.00	2- Clay and silty sand
40	87.50	99.00	4- Lime Stone/Very shelly sand
41	90.00	53.00	2- Clay and silty sand
42	92.50	51.00	2- Clay and silty sand
43	95.00	99.00	2- Clay and silty sand
44	96.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	30.00	27.00	3.00	5.00	3-Clean Sand
2	27.00	26.00	1.00	2.00	2-Clay and Silty Sand
3	26.00	25.00	1.00	2.00	3-Clean Sand
4	25.00	24.00	1.00	2.00	2-Clay and Silty Sand
5	24.00	20.00	4.00	10.00	3-Clean Sand
6	20.00	-1.25	21.25	1.41	2-Clay and Silty Sand
7	-1.25	-2.50	1.25	4.00	3-Clean Sand
8	-2.50	-7.50	5.00	5.50	2-Clay and Silty Sand
9	-7.50	-10.00	2.50	6.00	1-Plastic Clay
10	-10.00	-25.00	15.00	9.67	2-Clay and Silty Sand



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11	-25.00	-30.00	5.00	19.50	1-Plastic Clay
12	-30.00	-35.00	5.00	21.00	2-Clay and Silty Sand
13	-35.00	-37.50	2.50	22.00	1-Plastic Clay
14	-37.50	-40.00	2.50	99.00	2-Clay and Silty Sand
15	-40.00	-42.50	2.50	99.00	4-Limestone, Very
Shelly Sand					
16	-42.50	-45.00	2.50	99.00	2-Clay and Silty Sand
17	-45.00	-50.00	5.00	99.00	4-Limestone, Very
Shelly Sand					
18	-50.00	-57.50	7.50	81.67	2-Clay and Silty Sand
19	-57.50	-60.00	2.50	99.00	4-Limestone, Very
Shelly Sand					
20	-60.00	-66.00	6.00	59.83	2-Clay and Silty Sand
21	-66.00	-66.00	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	20.00
18.00	12.00	18.00
18.00	14.00	16.00
18.00	16.00	14.00
18.00	18.00	12.00
18.00	20.00	10.00
18.00	22.00	8.00
18.00	24.00	6.00
18.00	26.00	4.00
18.00	28.00	2.00
18.00	30.00	0.00
18.00	32.00	-2.00
18.00	34.00	-4.00
18.00	36.00	-6.00
18.00	38.00	-8.00
18.00	40.00	-10.00
18.00	42.00	-12.00
18.00	44.00	-14.00
18.00	46.00	-16.00
18.00	48.00	-18.00
18.00	50.00	-20.00
18.00	52.00	-22.00
18.00	54.00	-24.00

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18.00	56.00	-26.00
18.00	58.00	-28.00
18.00	60.00	-30.00
18.00	62.00	-32.00
18.00	64.00	-34.00
18.00	66.00	-36.00
18.00	68.00	-38.00
18.00	70.00	-40.00
18.00	72.00	-42.00
18.00	74.00	-44.00
18.00	76.00	-46.00
18.00	78.00	-48.00
18.00	80.00	-50.00
18.00	82.00	-52.00
18.00	84.00	-54.00
18.00	86.00	-56.00
18.00	88.00	-58.00
18.00	90.00	-60.00
18.00	92.00	-62.00
18.00	94.00	-64.00

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
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10.00	18.0	6.79	7.14	13.93	6.96	28.21
12.00	18.0	6.79	0.00	6.79	3.39	6.79
14.00	18.0	6.79	0.00	6.79	3.39	6.79
16.00	18.0	6.79	0.00	6.79	3.39	6.79
18.00	18.0	6.79	0.00	6.79	3.39	6.79
20.00	18.0	6.79	0.00	6.79	3.39	6.79
22.00	18.0	6.79	0.00	6.79	3.39	6.79
24.00	18.0	6.79	0.00	6.79	3.39	6.79
26.00	18.0	6.79	0.00	6.79	3.39	6.79
28.00	18.0	6.79	0.99	7.78	3.89	9.76
30.00	18.0	6.79	2.60	9.38	4.69	14.58
32.00	18.0	7.14	3.47	10.61	5.31	17.56
34.00	18.0	10.29	3.87	14.16	7.08	21.90
36.00	18.0	12.97	4.83	17.80	8.90	27.45
38.00	18.0	18.87	7.44	26.32	13.16	41.21
40.00	18.0	23.90	9.34	33.24	16.62	51.92

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42.00	18.0	29.58	9.46	39.05	19.52	57.98
44.00	18.0	35.43	9.90	45.33	22.66	65.13
46.00	18.0	39.21	11.62	50.83	25.41	74.06
48.00	18.0	43.52	13.90	57.42	28.71	85.21
50.00	18.0	49.22	15.13	64.35	32.18	94.62
52.00	18.0	56.80	14.82	71.62	35.81	101.25
54.00	18.0	66.43	14.79	81.22	40.61	110.81
56.00	18.0	80.34	16.50	96.83	48.42	129.82
58.00	18.0	90.54	21.27	111.82	55.91	154.36
60.00	18.0	104.17	21.94	126.11	63.06	169.99
62.00	18.0	114.15	23.20	137.35	68.67	183.75
64.00	18.0	120.63	33.98	154.62	77.31	222.58
66.00	18.0	140.30	56.06	196.36	98.18	308.49
68.00	18.0	156.20	71.09	227.29	113.65	369.48
70.00	18.0	166.89	83.84	250.73	125.37	418.41
72.00	18.0	176.03	87.28	263.31	131.65	437.87
74.00	18.0	190.47	106.12	296.59	148.29	508.83
76.00	18.0	199.13	107.70	306.83	153.42	522.23
78.00	18.0	206.54	102.41	308.96	154.48	513.79
80.00	18.0	218.89	71.72	290.62	145.31	434.06
82.00	18.0	233.28	74.50	307.78	153.89	456.78
84.00	18.0	245.71	85.34	331.05	165.52	501.72
86.00	18.0	259.92	93.00	352.92	176.46	538.92
88.00	18.0	274.55	95.33	369.88	184.94	560.53
90.00	18.0	286.85	71.57	358.42	179.21	501.57
92.00	18.0	*****	Not enough soil data	*****		
94.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSEON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSEON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B60\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 10-31-13, Boring Number: WL2-B60  
 Station number: 833+09 Offset: 69 RT

Ground Elevation: 31.300(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	7.00	3- Clean sand
2	2.00	7.00	3- Clean sand
3	4.00	8.00	3- Clean sand
4	5.00	4.00	2- Clay and silty sand
5	6.00	4.00	3- Clean sand
6	7.00	4.00	2- Clay and silty sand
7	8.00	8.00	3- Clean sand
8	10.00	10.00	3- Clean sand
9	11.25	2.00	2- Clay and silty sand
10	12.50	2.00	3- Clean sand
11	15.00	1.00	2- Clay and silty sand
12	17.50	1.00	1- Plastic Clay
13	20.00	2.00	1- Plastic Clay
14	22.50	3.00	2- Clay and silty sand
15	25.00	0.00	2- Clay and silty sand
16	27.50	1.00	5- Cavity layer
17	30.00	0.00	5- Cavity layer

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18	32.50	0.00	5- Cavity layer
19	35.00	18.00	3- Clean sand
20	37.50	2.00	2- Clay and silty sand
21	40.00	0.00	5- Cavity layer
22	42.50	0.00	5- Cavity layer
23	45.00	0.00	5- Cavity layer
24	47.50	0.00	5- Cavity layer
25	50.00	1.00	5- Cavity layer
26	52.50	0.00	5- Cavity layer
27	55.00	0.00	5- Cavity layer
28	57.50	0.00	5- Cavity layer
29	60.00	3.00	2- Clay and silty sand
30	62.50	0.00	5- Cavity layer
31	65.00	1.00	5- Cavity layer
32	67.50	0.00	2- Clay and silty sand
33	70.00	1.00	2- Clay and silty sand
34	72.50	0.00	2- Clay and silty sand
35	75.00	0.00	2- Clay and silty sand
36	76.25	0.00	3- Clean sand
37	77.50	6.00	2- Clay and silty sand
38	78.75	1.00	3- Clean sand
39	80.00	1.00	2- Clay and silty sand
40	82.50	0.00	2- Clay and silty sand
41	85.00	0.00	2- Clay and silty sand
42	87.50	1.00	2- Clay and silty sand
43	90.00	0.00	2- Clay and silty sand
44	92.50	0.00	2- Clay and silty sand
45	95.00	0.00	2- Clay and silty sand
46	96.25	0.00	3- Clean sand
47	97.50	10.00	2- Clay and silty sand
48	100.00	5.00	1- Plastic Clay
49	102.50	4.00	2- Clay and silty sand
50	103.75	4.00	3- Clean sand
51	105.00	28.00	2- Clay and silty sand
52	107.50	43.00	2- Clay and silty sand
53	108.75	4.00	3- Clean sand
54	110.00	4.00	2- Clay and silty sand
55	111.25	4.00	3- Clean sand
56	112.50	50.00	2- Clay and silty sand
57	113.75	16.00	3- Clean sand
58	115.00	16.00	2- Clay and silty sand
59	116.25	4.00	3- Clean sand
60	117.50	4.00	2- Clay and silty sand
61	122.50	2.00	2- Clay and silty sand
62	125.00	99.00	4- Lime Stone/Very shelly sand
63	127.50	99.00	4- Lime Stone/Very shelly sand
64	130.00	99.00	2- Clay and silty sand
65	132.50	99.00	2- Clay and silty sand

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66	133.75	38.00	3- Clean sand
67	135.00	38.00	2- Clay and silty sand
68	137.50	36.00	2- Clay and silty sand
69	138.75	25.00	3- Clean sand
70	140.00	56.00	2- Clay and silty sand
71	142.50	58.00	2- Clay and silty sand
72	145.00	56.00	2- Clay and silty sand
73	146.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	31.30	26.30	5.00	7.20	3-Clean Sand
2	26.30	25.30	1.00	4.00	2-Clay and Silty Sand
3	25.30	24.30	1.00	4.00	3-Clean Sand
4	24.30	23.30	1.00	4.00	2-Clay and Silty Sand
5	23.30	20.05	3.25	8.77	3-Clean Sand
6	20.05	18.80	1.25	2.00	2-Clay and Silty Sand
7	18.80	16.30	2.50	2.00	3-Clean Sand
8	16.30	13.80	2.50	1.00	2-Clay and Silty Sand
9	13.80	8.80	5.00	1.50	1-Plastic Clay
10	8.80	3.80	5.00	1.50	2-Clay and Silty Sand
11	3.80	-3.70	7.50	0.33	5-Void
12	-3.70	-6.20	2.50	18.00	3-Clean Sand
13	-6.20	-8.70	2.50	2.00	2-Clay and Silty Sand
14	-8.70	-28.70	20.00	0.13	5-Void
15	-28.70	-31.20	2.50	3.00	2-Clay and Silty Sand
16	-31.20	-36.20	5.00	0.50	5-Void
17	-36.20	-44.95	8.75	0.29	2-Clay and Silty Sand
18	-44.95	-46.20	1.25	0.00	3-Clean Sand
19	-46.20	-47.45	1.25	6.00	2-Clay and Silty Sand
20	-47.45	-48.70	1.25	1.00	3-Clean Sand
21	-48.70	-64.95	16.25	0.31	2-Clay and Silty Sand
22	-64.95	-66.20	1.25	0.00	3-Clean Sand
23	-66.20	-68.70	2.50	10.00	2-Clay and Silty Sand
24	-68.70	-71.20	2.50	5.00	1-Plastic Clay
25	-71.20	-72.45	1.25	4.00	2-Clay and Silty Sand
26	-72.45	-73.70	1.25	4.00	3-Clean Sand
27	-73.70	-77.45	3.75	33.00	2-Clay and Silty Sand
28	-77.45	-78.70	1.25	4.00	3-Clean Sand
29	-78.70	-79.95	1.25	4.00	2-Clay and Silty Sand

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30	-79.95	-81.20	1.25	4.00	3-Clean Sand
31	-81.20	-82.45	1.25	50.00	2-Clay and Silty Sand
32	-82.45	-83.70	1.25	16.00	3-Clean Sand
33	-83.70	-84.95	1.25	16.00	2-Clay and Silty Sand
34	-84.95	-86.20	1.25	4.00	3-Clean Sand
35	-86.20	-93.70	7.50	3.33	2-Clay and Silty Sand
36	-93.70	-98.70	5.00	99.00	4-Limestone, Very
Shelly Sand					
37	-98.70	-102.45	3.75	99.00	2-Clay and Silty Sand
38	-102.45	-103.70	1.25	38.00	3-Clean Sand
39	-103.70	-107.45	3.75	37.33	2-Clay and Silty Sand
40	-107.45	-108.70	1.25	25.00	3-Clean Sand
41	-108.70	-114.70	6.00	56.83	2-Clay and Silty Sand
42	-114.70	-114.70	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	21.30
18.00	12.00	19.30
18.00	14.00	17.30
18.00	16.00	15.30
18.00	18.00	13.30
18.00	20.00	11.30
18.00	22.00	9.30
18.00	24.00	7.30
18.00	26.00	5.30
18.00	28.00	3.30
18.00	30.00	1.30
18.00	32.00	-0.70
18.00	34.00	-2.70
18.00	36.00	-4.70
18.00	38.00	-6.70
18.00	40.00	-8.70
18.00	42.00	-10.70
18.00	44.00	-12.70
18.00	46.00	-14.70
18.00	48.00	-16.70
18.00	50.00	-18.70
18.00	52.00	-20.70
18.00	54.00	-22.70

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18.00	56.00	-24.70
18.00	58.00	-26.70
18.00	60.00	-28.70
18.00	62.00	-30.70
18.00	64.00	-32.70
18.00	66.00	-34.70
18.00	68.00	-36.70
18.00	70.00	-38.70
18.00	72.00	-40.70
18.00	74.00	-42.70
18.00	76.00	-44.70
18.00	78.00	-46.70
18.00	80.00	-48.70
18.00	82.00	-50.70
18.00	84.00	-52.70
18.00	86.00	-54.70
18.00	88.00	-56.70
18.00	90.00	-58.70
18.00	92.00	-60.70
18.00	94.00	-62.70
18.00	96.00	-64.70
18.00	98.00	-66.70
18.00	100.00	-68.70
18.00	102.00	-70.70
18.00	104.00	-72.70
18.00	106.00	-74.70
18.00	108.00	-76.70
18.00	110.00	-78.70
18.00	112.00	-80.70
18.00	114.00	-82.70
18.00	116.00	-84.70
18.00	118.00	-86.70
18.00	120.00	-88.70
18.00	122.00	-90.70
18.00	124.00	-92.70
18.00	126.00	-94.70
18.00	128.00	-96.70
18.00	130.00	-98.70
18.00	132.00	-100.70
18.00	134.00	-102.70
18.00	136.00	-104.70
18.00	138.00	-106.70
18.00	140.00	-108.70
18.00	142.00	-110.70
18.00	144.00	-112.70



Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	7.77	9.96	17.73	8.87	37.64
12.00	18.0	8.66	0.00	8.66	4.33	8.66
14.00	18.0	8.66	5.86	14.52	7.26	26.24
16.00	18.0	8.66	4.00	12.66	6.33	20.66
18.00	18.0	8.66	3.50	12.16	6.08	19.17
20.00	18.0	8.66	3.01	11.67	5.83	17.68
22.00	18.0	8.66	0.78	9.43	4.72	10.98
24.00	18.0	8.66	0.00	8.66	4.33	8.66
26.00	18.0	8.66	0.00	8.66	4.33	8.66
28.00	18.0	8.66	0.00	8.66	4.33	8.66
30.00	18.0	8.66	0.00	8.66	4.33	8.66
32.00	18.0	8.66	0.00	8.66	4.33	8.66
34.00	18.0	9.80	0.00	9.80	4.90	9.80
36.00	18.0	13.87	6.87	20.75	10.37	34.49
38.00	18.0	15.02	0.00	15.02	7.51	15.02
40.00	18.0	15.02	0.00	15.02	7.51	15.02
42.00	18.0	15.02	0.00	15.02	7.51	15.02
44.00	18.0	15.02	0.00	15.02	7.51	15.02
46.00	18.0	15.02	0.00	15.02	7.51	15.02
48.00	18.0	15.02	0.00	15.02	7.51	15.02
50.00	18.0	15.02	0.00	15.02	7.51	15.02
52.00	18.0	15.02	0.00	15.02	7.51	15.02
54.00	18.0	15.02	0.00	15.02	7.51	15.02
56.00	18.0	15.02	0.00	15.02	7.51	15.02
58.00	18.0	15.02	0.00	15.02	7.51	15.02
60.00	18.0	15.02	0.00	15.02	7.51	15.02
62.00	18.0	15.02	0.00	15.02	7.51	15.02
64.00	18.0	15.02	0.00	15.02	7.51	15.02
66.00	18.0	15.02	0.00	15.02	7.51	15.02
68.00	18.0	15.02	0.00	15.02	7.51	15.02
70.00	18.0	15.02	0.00	15.02	7.51	15.02
72.00	18.0	15.02	0.26	15.27	7.64	15.78
74.00	18.0	15.02	1.06	16.08	8.04	18.21
76.00	18.0	15.02	1.06	16.08	8.04	18.21
78.00	18.0	17.07	0.57	17.64	8.82	18.79
80.00	18.0	17.52	0.47	17.98	8.99	18.91
82.00	18.0	17.52	0.47	17.98	8.99	18.91
84.00	18.0	17.52	0.47	17.98	8.99	18.91
86.00	18.0	17.52	0.47	17.98	8.99	18.91

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88.00	18.0	17.52	0.47	17.98	8.99	18.91
90.00	18.0	17.52	0.08	17.60	8.80	17.77
92.00	18.0	17.52	0.57	18.08	9.04	19.22
94.00	18.0	17.52	2.69	20.20	10.10	25.58
96.00	18.0	17.52	3.34	20.85	10.43	27.52
98.00	18.0	21.02	2.57	23.59	11.79	28.72
100.00	18.0	25.87	7.77	33.64	16.82	49.18
102.00	18.0	27.46	12.29	39.75	19.88	64.34
104.00	18.0	28.45	20.31	48.76	24.38	89.38
106.00	18.0	39.61	16.50	56.11	28.06	89.11
108.00	18.0	53.78	19.20	72.98	36.49	111.39
110.00	18.0	55.94	25.25	81.19	40.60	131.69
112.00	18.0	57.71	24.63	82.34	41.17	131.60
114.00	18.0	67.44	11.63	79.07	39.54	102.33
116.00	18.0	72.76	3.56	76.33	38.16	83.45
118.00	18.0	74.44	13.96	88.41	44.20	116.33
120.00	18.0	74.44	21.12	95.57	47.78	137.81
122.00	18.0	74.44	49.58	124.03	62.01	223.19
124.00	18.0	75.45	82.50	157.94	78.97	322.94
126.00	18.0	82.54	76.77	159.31	79.66	312.85
128.00	18.0	89.96	72.26	162.22	81.11	306.74
130.00	18.0	102.26	79.20	181.46	90.73	339.86
132.00	18.0	117.97	72.37	190.34	95.17	335.09
134.00	18.0	131.56	82.41	213.98	106.99	378.80
136.00	18.0	146.10	60.66	206.76	103.38	328.08
138.00	18.0	160.68	62.96	223.64	111.82	349.57
140.00	18.0	171.72	71.57	243.29	121.64	386.43
142.00	18.0	*****	Not enough soil data	*****		
144.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
  2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
  3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
  4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....culations-Analyses\FB-Deep\Wildlife No 2\WL2-B60a\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 8-11-14, Boring Number: WL2-B60a  
 Station number: 831+95 Offset: 65 RT

Ground Elevation: 31.000(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	3.00	3- Clean sand
2	2.00	3.00	3- Clean sand
3	3.00	3.00	2- Clay and silty sand
4	4.00	6.00	3- Clean sand
5	6.00	12.00	3- Clean sand
6	8.00	8.00	3- Clean sand
7	9.00	4.00	2- Clay and silty sand
8	10.00	4.00	3- Clean sand
9	12.50	0.00	2- Clay and silty sand
10	15.00	0.00	1- Plastic Clay
11	17.50	1.00	5- Cavity layer
12	20.00	1.00	2- Clay and silty sand
13	22.50	2.00	2- Clay and silty sand
14	25.00	2.00	2- Clay and silty sand
15	27.50	2.00	2- Clay and silty sand
16	28.75	2.00	3- Clean sand
17	30.00	5.00	2- Clay and silty sand

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18	32.50	7.00	2- Clay and silty sand
19	35.00	5.00	2- Clay and silty sand
20	37.50	6.00	2- Clay and silty sand
21	40.00	12.00	2- Clay and silty sand
22	41.25	3.00	3- Clean sand
23	42.50	3.00	2- Clay and silty sand
24	43.75	3.00	3- Clean sand
25	45.00	8.00	2- Clay and silty sand
26	46.25	4.00	3- Clean sand
27	47.50	4.00	2- Clay and silty sand
28	48.75	4.00	3- Clean sand
29	50.00	6.00	2- Clay and silty sand
30	52.50	8.00	2- Clay and silty sand
31	55.00	12.00	2- Clay and silty sand
32	57.50	22.00	1- Plastic Clay
33	60.00	18.00	2- Clay and silty sand
34	62.50	18.00	2- Clay and silty sand
35	63.75	18.00	3- Clean sand
36	65.00	35.00	2- Clay and silty sand
37	67.50	27.00	2- Clay and silty sand
38	70.00	99.00	2- Clay and silty sand
39	72.50	99.00	2- Clay and silty sand
40	75.00	99.00	2- Clay and silty sand
41	77.50	99.00	2- Clay and silty sand
42	80.00	99.00	2- Clay and silty sand
43	81.25	18.00	3- Clean sand
44	82.50	18.00	2- Clay and silty sand
45	83.75	18.00	3- Clean sand
46	85.00	99.00	2- Clay and silty sand
47	87.50	99.00	2- Clay and silty sand
48	90.00	99.00	2- Clay and silty sand
49	91.25	32.00	3- Clean sand
50	92.50	32.00	2- Clay and silty sand
51	93.75	32.00	3- Clean sand
52	95.00	99.00	2- Clay and silty sand
53	97.50	56.00	2- Clay and silty sand
54	100.00	99.00	2- Clay and silty sand
55	101.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
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1	31.00	28.00	3.00	3.00	3-Clean Sand
2	28.00	27.00	1.00	3.00	2-Clay and Silty Sand
3	27.00	22.00	5.00	8.80	3-Clean Sand
4	22.00	21.00	1.00	4.00	2-Clay and Silty Sand
5	21.00	18.50	2.50	4.00	3-Clean Sand
6	18.50	16.00	2.50	0.00	2-Clay and Silty Sand
7	16.00	13.50	2.50	0.00	1-Plastic Clay
8	13.50	11.00	2.50	1.00	5-Void
9	11.00	2.25	8.75	1.71	2-Clay and Silty Sand
10	2.25	1.00	1.25	2.00	3-Clean Sand
11	1.00	-10.25	11.25	6.44	2-Clay and Silty Sand
12	-10.25	-11.50	1.25	3.00	3-Clean Sand
13	-11.50	-12.75	1.25	3.00	2-Clay and Silty Sand
14	-12.75	-14.00	1.25	3.00	3-Clean Sand
15	-14.00	-15.25	1.25	8.00	2-Clay and Silty Sand
16	-15.25	-16.50	1.25	4.00	3-Clean Sand
17	-16.50	-17.75	1.25	4.00	2-Clay and Silty Sand
18	-17.75	-19.00	1.25	4.00	3-Clean Sand
19	-19.00	-26.50	7.50	8.67	2-Clay and Silty Sand
20	-26.50	-29.00	2.50	22.00	1-Plastic Clay
21	-29.00	-32.75	3.75	18.00	2-Clay and Silty Sand
22	-32.75	-34.00	1.25	18.00	3-Clean Sand
23	-34.00	-50.25	16.25	78.08	2-Clay and Silty Sand
24	-50.25	-51.50	1.25	18.00	3-Clean Sand
25	-51.50	-52.75	1.25	18.00	2-Clay and Silty Sand
26	-52.75	-54.00	1.25	18.00	3-Clean Sand
27	-54.00	-60.25	6.25	99.00	2-Clay and Silty Sand
28	-60.25	-61.50	1.25	32.00	3-Clean Sand
29	-61.50	-62.75	1.25	32.00	2-Clay and Silty Sand
30	-62.75	-64.00	1.25	32.00	3-Clean Sand
31	-64.00	-70.00	6.00	81.08	2-Clay and Silty Sand
32	-70.00	-70.00	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	21.00
18.00	12.00	19.00
18.00	14.00	17.00
18.00	16.00	15.00

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18.00	18.00	13.00
18.00	20.00	11.00
18.00	22.00	9.00
18.00	24.00	7.00
18.00	26.00	5.00
18.00	28.00	3.00
18.00	30.00	1.00
18.00	32.00	-1.00
18.00	34.00	-3.00
18.00	36.00	-5.00
18.00	38.00	-7.00
18.00	40.00	-9.00
18.00	42.00	-11.00
18.00	44.00	-13.00
18.00	46.00	-15.00
18.00	48.00	-17.00
18.00	50.00	-19.00
18.00	52.00	-21.00
18.00	54.00	-23.00
18.00	56.00	-25.00
18.00	58.00	-27.00
18.00	60.00	-29.00
18.00	62.00	-31.00
18.00	64.00	-33.00
18.00	66.00	-35.00
18.00	68.00	-37.00
18.00	70.00	-39.00
18.00	72.00	-41.00
18.00	74.00	-43.00
18.00	76.00	-45.00
18.00	78.00	-47.00
18.00	80.00	-49.00
18.00	82.00	-51.00
18.00	84.00	-53.00
18.00	86.00	-55.00
18.00	88.00	-57.00
18.00	90.00	-59.00
18.00	92.00	-61.00
18.00	94.00	-63.00
18.00	96.00	-65.00
18.00	98.00	-67.00
18.00	100.00	-69.00

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	6.36	6.70	13.06	6.53	26.45
12.00	18.0	6.36	5.58	11.94	5.97	23.10
14.00	18.0	6.36	5.58	11.94	5.97	23.10
16.00	18.0	6.36	5.21	11.57	5.78	21.99
18.00	18.0	6.36	0.00	6.36	3.18	6.36
20.00	18.0	6.36	0.50	6.86	3.43	7.85
22.00	18.0	6.36	0.00	6.36	3.18	6.36
24.00	18.0	6.36	0.07	6.43	3.22	6.57
26.00	18.0	6.36	1.42	7.78	3.89	10.61
28.00	18.0	6.36	3.28	9.64	4.82	16.20
30.00	18.0	7.41	4.62	12.04	6.02	21.29
32.00	18.0	10.89	4.84	15.73	7.86	25.40
34.00	18.0	14.04	5.84	19.88	9.94	31.55
36.00	18.0	16.73	7.84	24.57	12.28	40.25
38.00	18.0	20.66	6.89	27.56	13.78	41.35
40.00	18.0	26.45	6.33	32.77	16.39	45.43
42.00	18.0	31.43	1.42	32.85	16.42	35.68
44.00	18.0	31.50	5.34	36.84	18.42	47.52
46.00	18.0	34.57	5.23	39.80	19.90	50.25
48.00	18.0	34.68	6.51	41.20	20.60	54.23
50.00	18.0	35.93	8.95	44.88	22.44	62.79
52.00	18.0	40.10	9.22	49.32	24.66	67.75
54.00	18.0	44.66	10.53	55.19	27.60	76.26
56.00	18.0	50.45	14.47	64.92	32.46	93.86
58.00	18.0	65.72	16.84	82.56	41.28	116.24
60.00	18.0	77.49	25.36	102.85	51.43	153.57
62.00	18.0	86.18	27.25	113.43	56.71	167.94
64.00	18.0	95.84	34.99	130.83	65.42	200.81
66.00	18.0	108.23	39.39	147.63	73.81	226.41
68.00	18.0	119.09	44.41	163.50	81.75	252.31
70.00	18.0	130.97	53.21	184.19	92.09	290.61
72.00	18.0	145.75	60.28	206.03	103.02	326.59
74.00	18.0	161.36	64.05	225.41	112.70	353.50
76.00	18.0	177.00	65.75	242.74	121.37	374.24
78.00	18.0	192.66	61.04	253.70	126.85	375.77
80.00	18.0	208.34	61.17	269.51	134.75	391.84
82.00	18.0	225.00	51.98	276.98	138.49	380.94
84.00	18.0	232.86	67.11	299.97	149.98	434.19
86.00	18.0	246.31	68.00	314.31	157.15	450.31
88.00	18.0	262.02	68.05	330.07	165.03	466.16
90.00	18.0	277.03	69.92	346.95	173.48	486.80
92.00	18.0	289.49	74.60	364.09	182.04	513.28

WL2-B60a_18-PCP.txt						
94.00	18.0	301.60	70.63	372.23	186.11	513.49
96.00	18.0	***** Not enough soil data *****				
98.00	18.0	0.00	0.00	0.00	0.00	0.00
100.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 X THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 X THE MOBILIZED END BEARING.



General Information:

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Input file: .....culations-Analyses\FB-Deep\Wildlife No 2\WL2-B60b\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 8-4-14, Boring Number: WL2-B60b  
 Station number: 834+25 Offset: 70 RT

Ground Elevation: 32.000(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	4.00	3- Clean sand
2	2.00	4.00	3- Clean sand
3	3.00	4.00	2- Clay and silty sand
4	4.00	7.00	3- Clean sand
5	6.00	14.00	3- Clean sand
6	8.00	15.00	3- Clean sand
7	10.00	16.00	3- Clean sand
8	11.25	2.00	2- Clay and silty sand
9	12.50	2.00	3- Clean sand
10	13.75	2.00	2- Clay and silty sand
11	15.00	6.00	3- Clean sand
12	16.25	4.00	2- Clay and silty sand
13	17.50	4.00	3- Clean sand
14	20.00	4.00	3- Clean sand
15	22.50	4.00	3- Clean sand
16	25.00	3.00	2- Clay and silty sand
17	27.50	3.00	2- Clay and silty sand

WL2-B60b\_18-PCP.txt

18	28.75	3.00	3- Clean sand
19	30.00	5.00	2- Clay and silty sand
20	32.50	9.00	2- Clay and silty sand
21	35.00	6.00	2- Clay and silty sand
22	37.50	6.00	2- Clay and silty sand
23	40.00	7.00	2- Clay and silty sand
24	41.25	7.00	3- Clean sand
25	42.50	18.00	2- Clay and silty sand
26	43.75	7.00	3- Clean sand
27	45.00	7.00	2- Clay and silty sand
28	46.25	4.00	3- Clean sand
29	47.50	4.00	2- Clay and silty sand
30	48.75	4.00	3- Clean sand
31	50.00	10.00	2- Clay and silty sand
32	52.50	15.00	2- Clay and silty sand
33	55.00	19.00	2- Clay and silty sand
34	57.50	17.00	2- Clay and silty sand
35	60.00	15.00	2- Clay and silty sand
36	62.50	18.00	2- Clay and silty sand
37	63.75	18.00	3- Clean sand
38	65.00	43.00	2- Clay and silty sand
39	66.25	23.00	3- Clean sand
40	67.50	23.00	2- Clay and silty sand
41	68.75	23.00	3- Clean sand
42	70.00	53.00	2- Clay and silty sand
43	72.50	99.00	2- Clay and silty sand
44	75.00	99.00	2- Clay and silty sand
45	77.50	99.00	2- Clay and silty sand
46	80.00	99.00	2- Clay and silty sand
47	82.50	99.00	2- Clay and silty sand
48	85.00	99.00	2- Clay and silty sand
49	87.50	99.00	4- Lime Stone/Very shelly sand
50	90.00	99.00	4- Lime Stone/Very shelly sand
51	92.50	99.00	4- Lime Stone/Very shelly sand
52	93.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	32.00	29.00	3.00	4.00	3-Clean Sand
2	29.00	28.00	1.00	4.00	2-Clay and Silty Sand

WL2-B60b\_18-PCP.txt

3	28.00	20.75	7.25	12.69	3-Clean Sand
4	20.75	19.50	1.25	2.00	2-Clay and Silty Sand
5	19.50	18.25	1.25	2.00	3-Clean Sand
6	18.25	17.00	1.25	2.00	2-Clay and Silty Sand
7	17.00	15.75	1.25	6.00	3-Clean Sand
8	15.75	14.50	1.25	4.00	2-Clay and Silty Sand
9	14.50	7.00	7.50	4.00	3-Clean Sand
10	7.00	3.25	3.75	3.00	2-Clay and Silty Sand
11	3.25	2.00	1.25	3.00	3-Clean Sand
12	2.00	-9.25	11.25	6.56	2-Clay and Silty Sand
13	-9.25	-10.50	1.25	7.00	3-Clean Sand
14	-10.50	-11.75	1.25	18.00	2-Clay and Silty Sand
15	-11.75	-13.00	1.25	7.00	3-Clean Sand
16	-13.00	-14.25	1.25	7.00	2-Clay and Silty Sand
17	-14.25	-15.50	1.25	4.00	3-Clean Sand
18	-15.50	-16.75	1.25	4.00	2-Clay and Silty Sand
19	-16.75	-18.00	1.25	4.00	3-Clean Sand
20	-18.00	-31.75	13.75	15.45	2-Clay and Silty Sand
21	-31.75	-33.00	1.25	18.00	3-Clean Sand
22	-33.00	-34.25	1.25	43.00	2-Clay and Silty Sand
23	-34.25	-35.50	1.25	23.00	3-Clean Sand
24	-35.50	-36.75	1.25	23.00	2-Clay and Silty Sand
25	-36.75	-38.00	1.25	23.00	3-Clean Sand
26	-38.00	-55.50	17.50	92.43	2-Clay and Silty Sand
27	-55.50	-61.00	5.50	99.00	4-Limestone, Very
Shelly Sand					
28	-61.00	-61.00	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	22.00
18.00	12.00	20.00
18.00	14.00	18.00
18.00	16.00	16.00
18.00	18.00	14.00
18.00	20.00	12.00
18.00	22.00	10.00
18.00	24.00	8.00
18.00	26.00	6.00
18.00	28.00	4.00

WL2-B60b\_18-PCP.txt

18.00	30.00	2.00
18.00	32.00	0.00
18.00	34.00	-2.00
18.00	36.00	-4.00
18.00	38.00	-6.00
18.00	40.00	-8.00
18.00	42.00	-10.00
18.00	44.00	-12.00
18.00	46.00	-14.00
18.00	48.00	-16.00
18.00	50.00	-18.00
18.00	52.00	-20.00
18.00	54.00	-22.00
18.00	56.00	-24.00
18.00	58.00	-26.00
18.00	60.00	-28.00
18.00	62.00	-30.00
18.00	64.00	-32.00
18.00	66.00	-34.00
18.00	68.00	-36.00
18.00	70.00	-38.00
18.00	72.00	-40.00
18.00	74.00	-42.00
18.00	76.00	-44.00
18.00	78.00	-46.00
18.00	80.00	-48.00
18.00	82.00	-50.00
18.00	84.00	-52.00
18.00	86.00	-54.00
18.00	88.00	-56.00
18.00	90.00	-58.00
18.00	92.00	-60.00
18.00	94.00	-62.00

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
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10.00	18.0	11.94	16.85	28.80	14.40	62.51
12.00	18.0	13.36	2.13	15.48	7.74	19.74
14.00	18.0	13.38	13.82	27.20	13.60	54.84

WL2-B60b\_18-PCP.txt

16.00	18.0	14.40	12.24	26.64	13.32	51.11
18.00	18.0	14.42	9.61	24.03	12.01	43.25
20.00	18.0	14.42	6.01	20.43	10.22	32.46
22.00	18.0	14.42	2.17	16.59	8.29	20.93
24.00	18.0	14.42	1.00	15.42	7.71	17.42
26.00	18.0	14.42	1.70	16.12	8.06	19.52
28.00	18.0	14.42	2.70	17.12	8.56	22.53
30.00	18.0	15.47	5.54	21.02	10.51	32.10
32.00	18.0	19.43	5.76	25.19	12.59	36.70
34.00	18.0	24.03	6.29	30.33	15.16	42.91
36.00	18.0	27.03	8.25	35.28	17.64	51.78
38.00	18.0	31.11	11.91	43.02	21.51	66.84
40.00	18.0	35.48	13.99	49.47	24.74	77.45
42.00	18.0	41.40	12.24	53.63	26.82	78.11
44.00	18.0	47.48	5.23	52.71	26.35	63.16
46.00	18.0	50.32	4.12	54.44	27.22	62.68
48.00	18.0	50.86	12.06	62.92	31.46	87.04
50.00	18.0	52.84	16.71	69.55	34.77	102.96
52.00	18.0	59.44	17.50	76.94	38.47	111.93
54.00	18.0	67.76	18.69	86.46	43.23	123.85
56.00	18.0	78.09	19.19	97.29	48.64	135.67
58.00	18.0	88.03	21.09	109.12	54.56	151.31
60.00	18.0	97.30	29.39	126.69	63.34	185.47
62.00	18.0	106.73	37.98	144.71	72.36	220.68
64.00	18.0	116.61	41.97	158.58	79.29	242.52
66.00	18.0	128.17	45.70	173.87	86.94	265.28
68.00	18.0	137.87	52.00	189.87	94.94	293.86
70.00	18.0	147.98	58.12	206.10	103.05	322.35
72.00	18.0	162.84	59.47	222.31	111.15	341.25
74.00	18.0	176.85	63.48	240.33	120.17	367.29
76.00	18.0	191.41	68.95	260.35	130.18	398.25
78.00	18.0	207.12	69.71	276.83	138.41	416.26
80.00	18.0	222.83	71.58	294.41	147.20	437.57
82.00	18.0	238.53	80.68	319.21	159.61	480.57
84.00	18.0	254.24	97.71	351.96	175.98	547.39
86.00	18.0	269.13	113.89	383.02	191.51	610.81
88.00	18.0	*****	Not enough soil data	*****		
90.00	18.0	0.00	0.00	0.00	0.00	0.00
92.00	18.0	0.00	0.00	0.00	0.00	0.00
94.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.

WL2-B60b\_18-PCP.txt

3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE  
ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS  
2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B61\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 12-30-13, Boring Number: WL2-B61  
 Station number: 834+36 Offset: 109 LT

Ground Elevation: 29.600(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	3.00	3- Clean sand
2	2.00	3.00	3- Clean sand
3	4.00	4.00	3- Clean sand
4	5.00	4.00	2- Clay and silty sand
5	6.00	8.00	3- Clean sand
6	7.00	4.00	2- Clay and silty sand
7	8.00	4.00	3- Clean sand
8	10.00	3.00	3- Clean sand
9	12.50	0.00	2- Clay and silty sand
10	15.00	3.00	2- Clay and silty sand
11	17.50	2.00	2- Clay and silty sand
12	20.00	0.00	3- Clean sand
13	22.50	1.00	3- Clean sand
14	25.00	2.00	3- Clean sand
15	27.50	0.00	3- Clean sand
16	30.00	3.00	3- Clean sand
17	32.50	4.00	3- Clean sand

WL2-B61\_18-PCP.txt

18	33.75	4.00	2- Clay and silty sand
19	35.00	6.00	3- Clean sand
20	37.50	6.00	3- Clean sand
21	40.00	7.00	2- Clay and silty sand
22	42.50	8.00	2- Clay and silty sand
23	45.00	6.00	2- Clay and silty sand
24	47.50	6.00	2- Clay and silty sand
25	50.00	12.00	2- Clay and silty sand
26	52.50	11.00	2- Clay and silty sand
27	55.00	20.00	1- Plastic Clay
28	57.50	15.00	1- Plastic Clay
29	60.00	17.00	1- Plastic Clay
30	61.25	17.00	2- Clay and silty sand
31	62.50	38.00	1- Plastic Clay
32	63.75	38.00	2- Clay and silty sand
33	65.00	99.00	1- Plastic Clay
34	67.50	99.00	1- Plastic Clay
35	70.00	59.00	1- Plastic Clay
36	72.50	99.00	4- Lime Stone/Very shelly sand
37	75.00	99.00	4- Lime Stone/Very shelly sand
38	77.50	99.00	2- Clay and silty sand
39	80.00	99.00	2- Clay and silty sand
40	82.50	99.00	2- Clay and silty sand
41	85.00	99.00	2- Clay and silty sand
42	86.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	29.60	24.60	5.00	3.20	3-Clean Sand
2	24.60	23.60	1.00	4.00	2-Clay and Silty Sand
3	23.60	22.60	1.00	8.00	3-Clean Sand
4	22.60	21.60	1.00	4.00	2-Clay and Silty Sand
5	21.60	17.10	4.50	3.44	3-Clean Sand
6	17.10	9.60	7.50	1.67	2-Clay and Silty Sand
7	9.60	-4.15	13.75	1.45	3-Clean Sand
8	-4.15	-5.40	1.25	4.00	2-Clay and Silty Sand
9	-5.40	-10.40	5.00	6.00	3-Clean Sand
10	-10.40	-25.40	15.00	8.33	2-Clay and Silty Sand
11	-25.40	-31.65	6.25	17.40	1-Plastic Clay
12	-31.65	-32.90	1.25	17.00	2-Clay and Silty Sand



WL2-B61\_18-PCP.txt

13	-32.90	-34.15	1.25	38.00	1-Plastic Clay
14	-34.15	-35.40	1.25	38.00	2-Clay and Silty Sand
15	-35.40	-42.90	7.50	85.67	1-Plastic Clay
16	-42.90	-47.90	5.00	99.00	4-Limestone, Very
Shelly Sand					
17	-47.90	-56.40	8.50	99.00	2-Clay and Silty Sand
18	-56.40	-56.40	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	19.60
18.00	12.00	17.60
18.00	14.00	15.60
18.00	16.00	13.60
18.00	18.00	11.60
18.00	20.00	9.60
18.00	22.00	7.60
18.00	24.00	5.60
18.00	26.00	3.60
18.00	28.00	1.60
18.00	30.00	-0.40
18.00	32.00	-2.40
18.00	34.00	-4.40
18.00	36.00	-6.40
18.00	38.00	-8.40
18.00	40.00	-10.40
18.00	42.00	-12.40
18.00	44.00	-14.40
18.00	46.00	-16.40
18.00	48.00	-18.40
18.00	50.00	-20.40
18.00	52.00	-22.40
18.00	54.00	-24.40
18.00	56.00	-26.40
18.00	58.00	-28.40
18.00	60.00	-30.40
18.00	62.00	-32.40
18.00	64.00	-34.40
18.00	66.00	-36.40
18.00	68.00	-38.40

WL2-B61\_18-PCP.txt

18.00	70.00	-40.40
18.00	72.00	-42.40
18.00	74.00	-44.40
18.00	76.00	-46.40
18.00	78.00	-48.40
18.00	80.00	-50.40
18.00	82.00	-52.40
18.00	84.00	-54.40

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	1.13	1.19	2.32	1.16	4.70
12.00	18.0	1.13	0.99	2.12	1.06	4.11
14.00	18.0	1.13	0.99	2.12	1.06	4.11
16.00	18.0	1.13	0.99	2.12	1.06	4.11
18.00	18.0	1.13	0.50	1.63	0.81	2.62
20.00	18.0	1.13	0.00	1.13	0.57	1.13
22.00	18.0	1.13	0.00	1.13	0.57	1.13
24.00	18.0	1.13	0.00	1.13	0.57	1.13
26.00	18.0	1.13	0.00	1.13	0.57	1.13
28.00	18.0	1.13	0.00	1.13	0.57	1.13
30.00	18.0	1.13	1.49	2.62	1.31	5.59
32.00	18.0	1.13	4.89	6.02	3.01	15.80
34.00	18.0	1.15	7.56	8.71	4.35	23.83
36.00	18.0	2.50	8.34	10.84	5.42	27.52
38.00	18.0	4.18	8.46	12.64	6.32	29.56
40.00	18.0	7.72	10.70	18.42	9.21	39.82
42.00	18.0	12.56	10.46	23.02	11.51	43.94
44.00	18.0	17.48	10.59	28.07	14.03	49.26
46.00	18.0	20.95	11.78	32.74	16.37	56.31
48.00	18.0	25.05	13.00	38.05	19.03	64.06
50.00	18.0	31.05	13.37	44.42	22.21	71.15
52.00	18.0	38.20	12.77	50.97	25.49	76.52
54.00	18.0	46.34	12.12	58.45	29.23	82.69
56.00	18.0	58.38	11.44	69.82	34.91	92.70
58.00	18.0	67.38	15.17	82.55	41.28	112.90
60.00	18.0	78.23	21.42	99.65	49.83	142.50
62.00	18.0	91.55	24.70	116.24	58.12	165.63
64.00	18.0	108.08	25.78	133.86	66.93	185.42

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66.00	18.0	124.47	27.50	151.97	75.99	206.98
68.00	18.0	136.67	52.96	189.63	94.82	295.55
70.00	18.0	154.64	79.46	234.10	117.05	393.02
72.00	18.0	168.77	91.90	260.67	130.34	444.47
74.00	18.0	182.63	86.98	269.61	134.80	443.56
76.00	18.0	190.68	81.10	271.78	135.89	433.99
78.00	18.0	204.47	72.00	276.47	138.24	420.47
80.00	18.0	220.18	71.79	291.97	145.98	435.54
82.00	18.0	*****	Not enough soil data	*****		
84.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B62\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 1-2-14, Boring Number: WL2-B62  
 Station number: 834+23 Offset: 29 LT

Ground Elevation: 30.500(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	3.00	3- Clean sand
2	2.00	3.00	3- Clean sand
3	4.00	3.00	3- Clean sand
4	5.00	3.00	2- Clay and silty sand
5	6.00	7.00	3- Clean sand
6	7.00	4.00	2- Clay and silty sand
7	8.00	4.00	3- Clean sand
8	10.00	2.00	2- Clay and silty sand
9	12.50	1.00	2- Clay and silty sand
10	15.00	0.00	2- Clay and silty sand
11	17.50	2.00	2- Clay and silty sand
12	20.00	0.00	2- Clay and silty sand
13	22.50	0.00	2- Clay and silty sand
14	25.00	1.00	3- Clean sand
15	27.50	4.00	3- Clean sand
16	28.75	4.00	2- Clay and silty sand
17	30.00	6.00	3- Clean sand

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18	31.25	4.00	2- Clay and silty sand
19	32.50	4.00	3- Clean sand
20	33.75	4.00	2- Clay and silty sand
21	35.00	7.00	3- Clean sand
22	37.50	8.00	3- Clean sand
23	40.00	10.00	2- Clay and silty sand
24	42.50	13.00	2- Clay and silty sand
25	45.00	6.00	2- Clay and silty sand
26	47.50	5.00	2- Clay and silty sand
27	50.00	13.00	2- Clay and silty sand
28	52.50	8.00	2- Clay and silty sand
29	55.00	27.00	1- Plastic Clay
30	57.50	17.00	1- Plastic Clay
31	60.00	16.00	1- Plastic Clay
32	62.50	19.00	2- Clay and silty sand
33	65.00	22.00	1- Plastic Clay
34	66.25	22.00	2- Clay and silty sand
35	67.50	99.00	1- Plastic Clay
36	70.00	99.00	2- Clay and silty sand
37	72.50	99.00	1- Plastic Clay
38	75.00	99.00	4- Lime Stone/Very shelly sand
39	77.50	99.00	4- Lime Stone/Very shelly sand
40	80.00	99.00	4- Lime Stone/Very shelly sand
41	82.50	29.00	2- Clay and silty sand
42	83.75	29.00	3- Clean sand
43	85.00	99.00	2- Clay and silty sand
44	86.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	30.50	25.50	5.00	3.00	3-Clean Sand
2	25.50	24.50	1.00	3.00	2-Clay and Silty Sand
3	24.50	23.50	1.00	7.00	3-Clean Sand
4	23.50	22.50	1.00	4.00	2-Clay and Silty Sand
5	22.50	20.50	2.00	4.00	3-Clean Sand
6	20.50	5.50	15.00	0.83	2-Clay and Silty Sand
7	5.50	1.75	3.75	2.00	3-Clean Sand
8	1.75	0.50	1.25	4.00	2-Clay and Silty Sand
9	0.50	-0.75	1.25	6.00	3-Clean Sand
10	-0.75	-2.00	1.25	4.00	2-Clay and Silty Sand

WL2-B62\_18-PCP.txt

11	-2.00	-3.25	1.25	4.00	3-Clean Sand
12	-3.25	-4.50	1.25	4.00	2-Clay and Silty Sand
13	-4.50	-9.50	5.00	7.50	3-Clean Sand
14	-9.50	-24.50	15.00	9.17	2-Clay and Silty Sand
15	-24.50	-32.00	7.50	20.00	1-Plastic Clay
16	-32.00	-34.50	2.50	19.00	2-Clay and Silty Sand
17	-34.50	-35.75	1.25	22.00	1-Plastic Clay
18	-35.75	-37.00	1.25	22.00	2-Clay and Silty Sand
19	-37.00	-39.50	2.50	99.00	1-Plastic Clay
20	-39.50	-42.00	2.50	99.00	2-Clay and Silty Sand
21	-42.00	-44.50	2.50	99.00	1-Plastic Clay
22	-44.50	-52.00	7.50	99.00	4-Limestone, Very
Shelly Sand					
23	-52.00	-53.25	1.25	29.00	2-Clay and Silty Sand
24	-53.25	-54.50	1.25	29.00	3-Clean Sand
25	-54.50	-55.50	1.00	99.00	2-Clay and Silty Sand
26	-55.50	-55.50	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	20.50
18.00	12.00	18.50
18.00	14.00	16.50
18.00	16.00	14.50
18.00	18.00	12.50
18.00	20.00	10.50
18.00	22.00	8.50
18.00	24.00	6.50
18.00	26.00	4.50
18.00	28.00	2.50
18.00	30.00	0.50
18.00	32.00	-1.50
18.00	34.00	-3.50
18.00	36.00	-5.50
18.00	38.00	-7.50
18.00	40.00	-9.50
18.00	42.00	-11.50
18.00	44.00	-13.50
18.00	46.00	-15.50
18.00	48.00	-17.50

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18.00	50.00	-19.50
18.00	52.00	-21.50
18.00	54.00	-23.50
18.00	56.00	-25.50
18.00	58.00	-27.50
18.00	60.00	-29.50
18.00	62.00	-31.50
18.00	64.00	-33.50
18.00	66.00	-35.50
18.00	68.00	-37.50
18.00	70.00	-39.50
18.00	72.00	-41.50
18.00	74.00	-43.50
18.00	76.00	-45.50
18.00	78.00	-47.50
18.00	80.00	-49.50
18.00	82.00	-51.50
18.00	84.00	-53.50

Driven Pile Capacity:

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Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	0.99	1.04	2.03	1.02	4.11
12.00	18.0	0.99	0.87	1.86	0.93	3.59
14.00	18.0	0.99	0.87	1.86	0.93	3.59
16.00	18.0	0.99	0.87	1.86	0.93	3.59
18.00	18.0	0.99	0.43	1.42	0.71	2.29
20.00	18.0	0.99	0.00	0.99	0.49	0.99
22.00	18.0	0.99	0.00	0.99	0.49	0.99
24.00	18.0	0.99	0.17	1.16	0.58	1.50
26.00	18.0	0.99	1.52	2.51	1.26	5.55
28.00	18.0	0.99	1.67	2.66	1.33	6.01
30.00	18.0	1.52	3.27	4.79	2.39	11.32
32.00	18.0	2.05	5.99	8.04	4.02	20.02
34.00	18.0	2.07	10.52	12.59	6.30	33.63
36.00	18.0	3.65	11.80	15.45	7.73	39.04
38.00	18.0	5.70	12.21	17.91	8.95	42.33
40.00	18.0	10.69	15.30	25.99	13.00	56.60
42.00	18.0	17.67	14.37	32.03	16.02	60.77
44.00	18.0	24.67	13.32	37.99	18.99	64.63

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46.00	18.0	28.99	13.63	42.62	21.31	69.87
48.00	18.0	32.62	13.84	46.46	23.23	74.14
50.00	18.0	38.72	14.24	52.96	26.48	81.45
52.00	18.0	45.55	14.12	59.67	29.84	87.90
54.00	18.0	53.10	13.37	66.48	33.24	93.23
56.00	18.0	67.02	12.74	79.76	39.88	105.23
58.00	18.0	77.55	15.28	92.83	46.42	123.39
60.00	18.0	88.57	17.05	105.62	52.81	139.72
62.00	18.0	99.32	19.44	118.76	59.38	157.64
64.00	18.0	110.85	20.87	131.72	65.86	173.46
66.00	18.0	124.33	30.05	154.38	77.19	214.48
68.00	18.0	140.06	35.18	175.24	87.62	245.60
70.00	18.0	156.84	52.63	209.46	104.73	314.71
72.00	18.0	169.11	60.62	229.74	114.87	350.98
74.00	18.0	187.58	91.25	278.83	139.42	461.34
76.00	18.0	197.14	106.54	303.68	151.84	516.77
78.00	18.0	204.42	102.39	306.81	153.40	511.59
80.00	18.0	211.62	96.92	308.54	154.27	502.38
82.00	18.0	*****	Not enough soil data	*****		
84.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

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1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.



General Information:

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Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B63\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

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Analysis Type: SPT

Soil Information:

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Boring date: 12-31-13, Boring Number: WL2-B63  
 Station number: 835+35 Offset: 147 LT

Ground Elevation: 27.700(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	3.00	3- Clean sand
2	2.00	3.00	3- Clean sand
3	3.00	3.00	2- Clay and silty sand
4	4.00	10.00	3- Clean sand
5	6.00	13.00	3- Clean sand
6	7.00	3.00	2- Clay and silty sand
7	8.00	3.00	3- Clean sand
8	10.00	2.00	3- Clean sand
9	12.50	0.00	2- Clay and silty sand
10	15.00	4.00	2- Clay and silty sand
11	17.50	2.00	2- Clay and silty sand
12	20.00	0.00	2- Clay and silty sand
13	22.50	3.00	2- Clay and silty sand
14	25.00	3.00	1- Plastic Clay
15	27.50	8.00	2- Clay and silty sand
16	28.75	4.00	3- Clean sand
17	30.00	4.00	2- Clay and silty sand

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18	31.25	4.00	3- Clean sand
19	32.50	5.00	2- Clay and silty sand
20	35.00	7.00	2- Clay and silty sand
21	37.50	5.00	2- Clay and silty sand
22	40.00	10.00	2- Clay and silty sand
23	42.50	8.00	2- Clay and silty sand
24	45.00	5.00	2- Clay and silty sand
25	47.50	5.00	2- Clay and silty sand
26	48.75	5.00	3- Clean sand
27	50.00	10.00	2- Clay and silty sand
28	52.50	10.00	2- Clay and silty sand
29	55.00	16.00	2- Clay and silty sand
30	57.50	17.00	2- Clay and silty sand
31	60.00	15.00	2- Clay and silty sand
32	62.50	15.00	1- Plastic Clay
33	65.00	18.00	1- Plastic Clay
34	67.50	32.00	2- Clay and silty sand
35	68.75	32.00	3- Clean sand
36	70.00	99.00	2- Clay and silty sand
37	71.25	31.00	3- Clean sand
38	72.50	31.00	2- Clay and silty sand
39	75.00	99.00	4- Lime Stone/Very shelly sand
40	77.50	99.00	2- Clay and silty sand
41	80.00	50.00	2- Clay and silty sand
42	81.25	33.00	3- Clean sand
43	82.50	33.00	2- Clay and silty sand
44	85.00	21.00	2- Clay and silty sand
45	86.25	21.00	3- Clean sand
46	87.50	40.00	2- Clay and silty sand
47	90.00	99.00	4- Lime Stone/Very shelly sand
48	92.50	99.00	2- Clay and silty sand
49	95.00	69.00	2- Clay and silty sand
50	97.50	99.00	2- Clay and silty sand
51	100.00	99.00	2- Clay and silty sand
52	101.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	27.70	24.70	3.00	3.00	3-Clean Sand
2	24.70	23.70	1.00	3.00	2-Clay and Silty Sand

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3	23.70	20.70	3.00	11.00	3-Clean Sand
4	20.70	19.70	1.00	3.00	2-Clay and Silty Sand
5	19.70	15.20	4.50	2.44	3-Clean Sand
6	15.20	2.70	12.50	1.80	2-Clay and Silty Sand
7	2.70	0.20	2.50	3.00	1-Plastic Clay
8	0.20	-1.05	1.25	8.00	2-Clay and Silty Sand
9	-1.05	-2.30	1.25	4.00	3-Clean Sand
10	-2.30	-3.55	1.25	4.00	2-Clay and Silty Sand
11	-3.55	-4.80	1.25	4.00	3-Clean Sand
12	-4.80	-21.05	16.25	6.54	2-Clay and Silty Sand
13	-21.05	-22.30	1.25	5.00	3-Clean Sand
14	-22.30	-34.80	12.50	13.60	2-Clay and Silty Sand
15	-34.80	-39.80	5.00	16.50	1-Plastic Clay
16	-39.80	-41.05	1.25	32.00	2-Clay and Silty Sand
17	-41.05	-42.30	1.25	32.00	3-Clean Sand
18	-42.30	-43.55	1.25	99.00	2-Clay and Silty Sand
19	-43.55	-44.80	1.25	31.00	3-Clean Sand
20	-44.80	-47.30	2.50	31.00	2-Clay and Silty Sand
21	-47.30	-49.80	2.50	99.00	4-Limestone, Very
Shelly Sand					
22	-49.80	-53.55	3.75	82.67	2-Clay and Silty Sand
23	-53.55	-54.80	1.25	33.00	3-Clean Sand
24	-54.80	-58.55	3.75	29.00	2-Clay and Silty Sand
25	-58.55	-59.80	1.25	21.00	3-Clean Sand
26	-59.80	-62.30	2.50	40.00	2-Clay and Silty Sand
27	-62.30	-64.80	2.50	99.00	4-Limestone, Very
Shelly Sand					
28	-64.80	-73.30	8.50	90.18	2-Clay and Silty Sand
29	-73.30	-73.30	0.00	0.00	5-

Driven Pile Data:

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Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

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Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	17.70
18.00	12.00	15.70
18.00	14.00	13.70
18.00	16.00	11.70
18.00	18.00	9.70
18.00	20.00	7.70
18.00	22.00	5.70
18.00	24.00	3.70

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18.00	26.00	1.70
18.00	28.00	-0.30
18.00	30.00	-2.30
18.00	32.00	-4.30
18.00	34.00	-6.30
18.00	36.00	-8.30
18.00	38.00	-10.30
18.00	40.00	-12.30
18.00	42.00	-14.30
18.00	44.00	-16.30
18.00	46.00	-18.30
18.00	48.00	-20.30
18.00	50.00	-22.30
18.00	52.00	-24.30
18.00	54.00	-26.30
18.00	56.00	-28.30
18.00	58.00	-30.30
18.00	60.00	-32.30
18.00	62.00	-34.30
18.00	64.00	-36.30
18.00	66.00	-38.30
18.00	68.00	-40.30
18.00	70.00	-42.30
18.00	72.00	-44.30
18.00	74.00	-46.30
18.00	76.00	-48.30
18.00	78.00	-50.30
18.00	80.00	-52.30
18.00	82.00	-54.30
18.00	84.00	-56.30
18.00	86.00	-58.30
18.00	88.00	-60.30
18.00	90.00	-62.30
18.00	92.00	-64.30
18.00	94.00	-66.30
18.00	96.00	-68.30
18.00	98.00	-70.30
18.00	100.00	-72.30

Driven Pile Capacity:

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Test Pile Length	Pile Width	Ultimate Side Friction	Mobilized End Bearing	Estimated Davisson Capacity	Allowable Pile Capacity	Ultimate Pile Capacity
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WL2-B63\_18-PCP.txt

(ft)	(in)	(tons)	(tons)	(tons)	(tons)	(tons)
10.00	18.0	4.88	5.13	10.01	5.01	20.28
12.00	18.0	4.88	4.28	9.15	4.58	17.71
14.00	18.0	4.88	4.28	9.15	4.58	17.71
16.00	18.0	4.88	3.66	8.53	4.27	15.85
18.00	18.0	4.88	0.81	5.68	2.84	7.29
20.00	18.0	4.88	0.01	4.89	2.45	4.92
22.00	18.0	4.88	1.15	6.02	3.01	8.32
24.00	18.0	4.88	2.13	7.00	3.50	11.25
26.00	18.0	5.40	2.00	7.39	3.70	11.39
28.00	18.0	9.10	1.96	11.07	5.53	14.99
30.00	18.0	9.75	3.74	13.49	6.75	20.98
32.00	18.0	10.10	4.90	15.00	7.50	24.80
34.00	18.0	13.29	5.77	19.06	9.53	30.59
36.00	18.0	16.42	6.98	23.40	11.70	37.36
38.00	18.0	19.31	9.00	28.31	14.16	46.32
40.00	18.0	24.22	9.00	33.21	16.61	51.20
42.00	18.0	29.89	8.84	38.72	19.36	56.40
44.00	18.0	34.68	9.80	44.49	22.24	64.10
46.00	18.0	38.34	11.15	49.48	24.74	71.78
48.00	18.0	41.70	12.42	54.13	27.06	78.97
50.00	18.0	47.53	14.24	61.78	30.89	90.26
52.00	18.0	53.20	14.94	68.14	34.07	98.02
54.00	18.0	59.02	16.76	75.79	37.89	109.32
56.00	18.0	67.39	18.55	85.94	42.97	123.04
58.00	18.0	76.89	17.48	94.37	47.19	129.33
60.00	18.0	86.07	16.47	102.54	51.27	135.49
62.00	18.0	95.42	19.10	114.52	57.26	152.72
64.00	18.0	106.95	25.74	132.69	66.34	184.16
66.00	18.0	116.67	43.03	159.70	79.85	245.76
68.00	18.0	134.33	48.23	182.56	91.28	279.02
70.00	18.0	146.17	93.08	239.25	119.62	425.41
72.00	18.0	157.74	92.66	250.39	125.20	435.71
74.00	18.0	169.95	76.44	246.39	123.20	399.28
76.00	18.0	179.00	77.60	256.59	128.30	411.79
78.00	18.0	192.80	71.93	264.73	132.37	408.59
80.00	18.0	208.51	65.28	273.80	136.90	404.36
82.00	18.0	219.54	51.40	270.95	135.47	373.76
84.00	18.0	233.21	49.40	282.62	141.31	381.42
86.00	18.0	239.88	62.10	301.99	150.99	426.20
88.00	18.0	256.18	89.26	345.45	172.72	523.97
90.00	18.0	266.78	82.32	349.10	174.55	513.75
92.00	18.0	277.38	76.54	353.92	176.96	507.00
94.00	18.0	292.88	72.00	364.88	182.44	508.88
96.00	18.0	*****	Not enough soil data	*****		
98.00	18.0	0.00	0.00	0.00	0.00	0.00
100.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

-----

1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

General Information:

=====

Input file: .....lculations-Analyses\FB-Deep\Wildlife No 2\WL2-B64\_18&24PCP.spc  
 Project number: H1135080  
 Job name: Wekiva Parkway Section 6 - Wildlife No. 2  
 Engineer: EJJ  
 Units: English

Analysis Information:

=====

Analysis Type: SPT

Soil Information:

=====

Boring date: 10-24-13, Boring Number: WL2-B64  
 Station number: 835+43 Offset: 68 RT

Ground Elevation: 31.200(ft)

Hammer type: Automatic Hammer, Correction factor = 1.24

ID	Depth (ft)	No. of Blows (Blows/ft)	Soil Type
1	0.00	3.00	3- Clean sand
2	2.00	3.00	3- Clean sand
3	3.00	3.00	2- Clay and silty sand
4	4.00	9.00	3- Clean sand
5	6.00	14.00	3- Clean sand
6	8.00	19.00	3- Clean sand
7	10.00	6.00	3- Clean sand
8	11.25	2.00	2- Clay and silty sand
9	12.50	2.00	3- Clean sand
10	15.00	1.00	1- Plastic Clay
11	17.50	7.00	2- Clay and silty sand
12	18.75	4.00	3- Clean sand
13	20.00	4.00	2- Clay and silty sand
14	22.50	2.00	2- Clay and silty sand
15	25.00	3.00	2- Clay and silty sand
16	27.50	2.00	1- Plastic Clay
17	30.00	16.00	2- Clay and silty sand

WL2-B64\_18-PCP.txt

18	32.50	6.00	2- Clay and silty sand
19	35.00	6.00	2- Clay and silty sand
20	37.50	8.00	2- Clay and silty sand
21	40.00	12.00	2- Clay and silty sand
22	42.50	10.00	2- Clay and silty sand
23	45.00	6.00	2- Clay and silty sand
24	46.25	4.00	3- Clean sand
25	47.50	4.00	2- Clay and silty sand
26	50.00	4.00	2- Clay and silty sand
27	51.25	4.00	3- Clean sand
28	52.50	6.00	2- Clay and silty sand
29	57.50	20.00	1- Plastic Clay
30	60.00	20.00	1- Plastic Clay
31	62.50	18.00	1- Plastic Clay
32	65.00	25.00	1- Plastic Clay
33	67.50	16.00	1- Plastic Clay
34	70.00	58.00	2- Clay and silty sand
35	72.50	99.00	1- Plastic Clay
36	75.00	99.00	2- Clay and silty sand
37	77.50	99.00	2- Clay and silty sand
38	80.00	99.00	4- Lime Stone/Very shelly sand
39	82.50	99.00	2- Clay and silty sand
40	85.00	70.00	2- Clay and silty sand
41	87.50	99.00	2- Clay and silty sand
42	90.00	99.00	2- Clay and silty sand
43	92.50	99.00	4- Lime Stone/Very shelly sand
44	93.00	0.00	5- Cavity layer

Blowcount Average Per Soil Layer

Layer Num.	Starting Elevation (ft)	Bottom Elevation (ft)	Thickness (ft)	Average Blowcount (Blows/ft)	Soil Type
1	31.20	28.20	3.00	3.00	3-Clean Sand
2	28.20	27.20	1.00	3.00	2-Clay and Silty Sand
3	27.20	19.95	7.25	12.62	3-Clean Sand
4	19.95	18.70	1.25	2.00	2-Clay and Silty Sand
5	18.70	16.20	2.50	2.00	3-Clean Sand
6	16.20	13.70	2.50	1.00	1-Plastic Clay
7	13.70	12.45	1.25	7.00	2-Clay and Silty Sand
8	12.45	11.20	1.25	4.00	3-Clean Sand
9	11.20	3.70	7.50	3.00	2-Clay and Silty Sand
10	3.70	1.20	2.50	2.00	1-Plastic Clay



WL2-B64\_18-PCP.txt

11	1.20	-15.05	16.25	9.38	2-Clay and Silty Sand
12	-15.05	-16.30	1.25	4.00	3-Clean Sand
13	-16.30	-20.05	3.75	4.00	2-Clay and Silty Sand
14	-20.05	-21.30	1.25	4.00	3-Clean Sand
15	-21.30	-26.30	5.00	6.00	2-Clay and Silty Sand
16	-26.30	-38.80	12.50	19.80	1-Plastic Clay
17	-38.80	-41.30	2.50	58.00	2-Clay and Silty Sand
18	-41.30	-43.80	2.50	99.00	1-Plastic Clay
19	-43.80	-48.80	5.00	99.00	2-Clay and Silty Sand
20	-48.80	-51.30	2.50	99.00	4-Limestone, Very
Shelly Sand					
21	-51.30	-61.30	10.00	91.75	2-Clay and Silty Sand
22	-61.30	-61.80	0.50	99.00	4-Limestone, Very
Shelly Sand					
23	-61.80	-61.80	0.00	0.00	5-

Driven Pile Data:

=====

Pile unit weight = 150.00(pcf), Section Type: Square

Pile Geometry:

-----

Width (in)	Length (ft)	Tip Elev. (ft)
18.00	10.00	21.20
18.00	12.00	19.20
18.00	14.00	17.20
18.00	16.00	15.20
18.00	18.00	13.20
18.00	20.00	11.20
18.00	22.00	9.20
18.00	24.00	7.20
18.00	26.00	5.20
18.00	28.00	3.20
18.00	30.00	1.20
18.00	32.00	-0.80
18.00	34.00	-2.80
18.00	36.00	-4.80
18.00	38.00	-6.80
18.00	40.00	-8.80
18.00	42.00	-10.80
18.00	44.00	-12.80
18.00	46.00	-14.80
18.00	48.00	-16.80
18.00	50.00	-18.80
18.00	52.00	-20.80

WL2-B64\_18-PCP.txt

18.00	54.00	-22.80
18.00	56.00	-24.80
18.00	58.00	-26.80
18.00	60.00	-28.80
18.00	62.00	-30.80
18.00	64.00	-32.80
18.00	66.00	-34.80
18.00	68.00	-36.80
18.00	70.00	-38.80
18.00	72.00	-40.80
18.00	74.00	-42.80
18.00	76.00	-44.80
18.00	78.00	-46.80
18.00	80.00	-48.80
18.00	82.00	-50.80
18.00	84.00	-52.80
18.00	86.00	-54.80
18.00	88.00	-56.80
18.00	90.00	-58.80
18.00	92.00	-60.80
18.00	94.00	-62.80

Driven Pile Capacity:

=====

Test Pile Length (ft)	Pile Width (in)	Ultimate Side Friction (tons)	Mobilized End Bearing (tons)	Estimated Davisson Capacity (tons)	Allowable Pile Capacity (tons)	Ultimate Pile Capacity (tons)
10.00	18.0	12.09	13.80	25.88	12.94	53.48
12.00	18.0	12.62	1.00	13.62	6.81	15.63
14.00	18.0	12.62	12.60	25.21	12.61	50.41
16.00	18.0	13.08	12.26	25.33	12.67	49.85
18.00	18.0	16.42	8.60	25.01	12.51	42.20
20.00	18.0	16.93	4.38	21.31	10.66	30.07
22.00	18.0	16.93	1.28	18.21	9.11	20.77
24.00	18.0	16.93	2.20	19.14	9.57	23.54
26.00	18.0	16.93	6.04	22.97	11.49	35.05
28.00	18.0	17.16	7.79	24.95	12.47	40.52
30.00	18.0	22.79	7.58	30.36	15.18	45.52
32.00	18.0	30.01	7.55	37.56	18.78	52.66
34.00	18.0	32.83	8.64	41.46	20.73	58.73
36.00	18.0	35.65	11.42	47.07	23.54	69.92
38.00	18.0	40.65	13.06	53.72	26.86	79.85

WL2-B64\_18-PCP.txt

40.00	18.0	47.04	13.38	60.42	30.21	87.19
42.00	18.0	53.88	10.75	64.63	32.32	86.13
44.00	18.0	59.71	7.80	67.51	33.75	83.11
46.00	18.0	63.28	6.20	69.48	34.74	81.87
48.00	18.0	66.06	6.39	72.45	36.22	85.22
50.00	18.0	66.06	6.89	72.96	36.48	86.74
52.00	18.0	66.50	8.29	74.78	37.39	91.35
54.00	18.0	71.25	8.60	79.85	39.93	97.05
56.00	18.0	79.41	8.70	88.11	44.05	105.50
58.00	18.0	91.23	8.96	100.19	50.10	118.12
60.00	18.0	102.54	10.27	112.81	56.41	133.34
62.00	18.0	114.53	11.74	126.27	63.13	149.74
64.00	18.0	126.95	15.87	142.81	71.41	174.55
66.00	18.0	140.88	25.34	166.22	83.11	216.89
68.00	18.0	152.64	30.64	183.28	91.64	244.56
70.00	18.0	168.06	35.87	203.93	101.97	275.67
72.00	18.0	182.51	38.09	220.60	110.30	296.77
74.00	18.0	200.14	50.41	250.55	125.28	351.37
76.00	18.0	217.20	67.82	285.03	142.51	420.68
78.00	18.0	230.18	74.22	304.40	152.20	452.84
80.00	18.0	244.11	81.13	325.24	162.62	487.50
82.00	18.0	254.72	77.40	332.12	166.06	486.91
84.00	18.0	270.21	72.00	342.21	171.11	486.21
86.00	18.0	285.23	73.56	358.79	179.39	505.91
88.00	18.0	*****	Not enough soil data	*****		
90.00	18.0	0.00	0.00	0.00	0.00	0.00
92.00	18.0	0.00	0.00	0.00	0.00	0.00
94.00	18.0	0.00	0.00	0.00	0.00	0.00

NOTES

-----

1. MOBILIZED END BEARING IS 1/3 OF THE ORIGINAL RB-121 VALUES.
2. DAVISSON PILE CAPACITY IS AN ESTIMATE BASED ON FAILURE CRITERIA, AND EQUALS ULTIMATE SIDE FRICTION PLUS MOBILIZED END BEARING.
3. ALLOWABLE PILE CAPACITY IS 1/2 THE DAVISSON PILE CAPACITY.
4. ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 3 x THE MOBILIZED END BEARING.  
EXCEPTION: FOR H-PILES TIPPED IN SAND OR LIMESTONE, THE ULTIMATE PILE CAPACITY IS ULTIMATE SIDE FRICTION PLUS 2 x THE MOBILIZED END BEARING.

**APPENDIX C**  
**SOIL BORING PROFILES**  
**(Reported by NES for Line and Grade Study)**

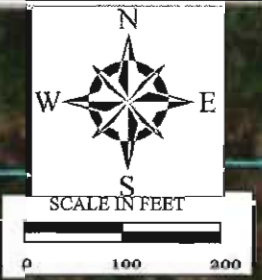


**SOIL LEGEND**

1	Sparr sand, 0 to 5 percent slopes
3	Alclote fine sand
28	Myakka sand
29	Myakka and Placid sand, 2 to 8 percent slopes
41	Pomello sand, 0 to 5 percent slopes

**LEGEND**

	APPROX. BRIDGE BORING LOCATION
--	--------------------------------



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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

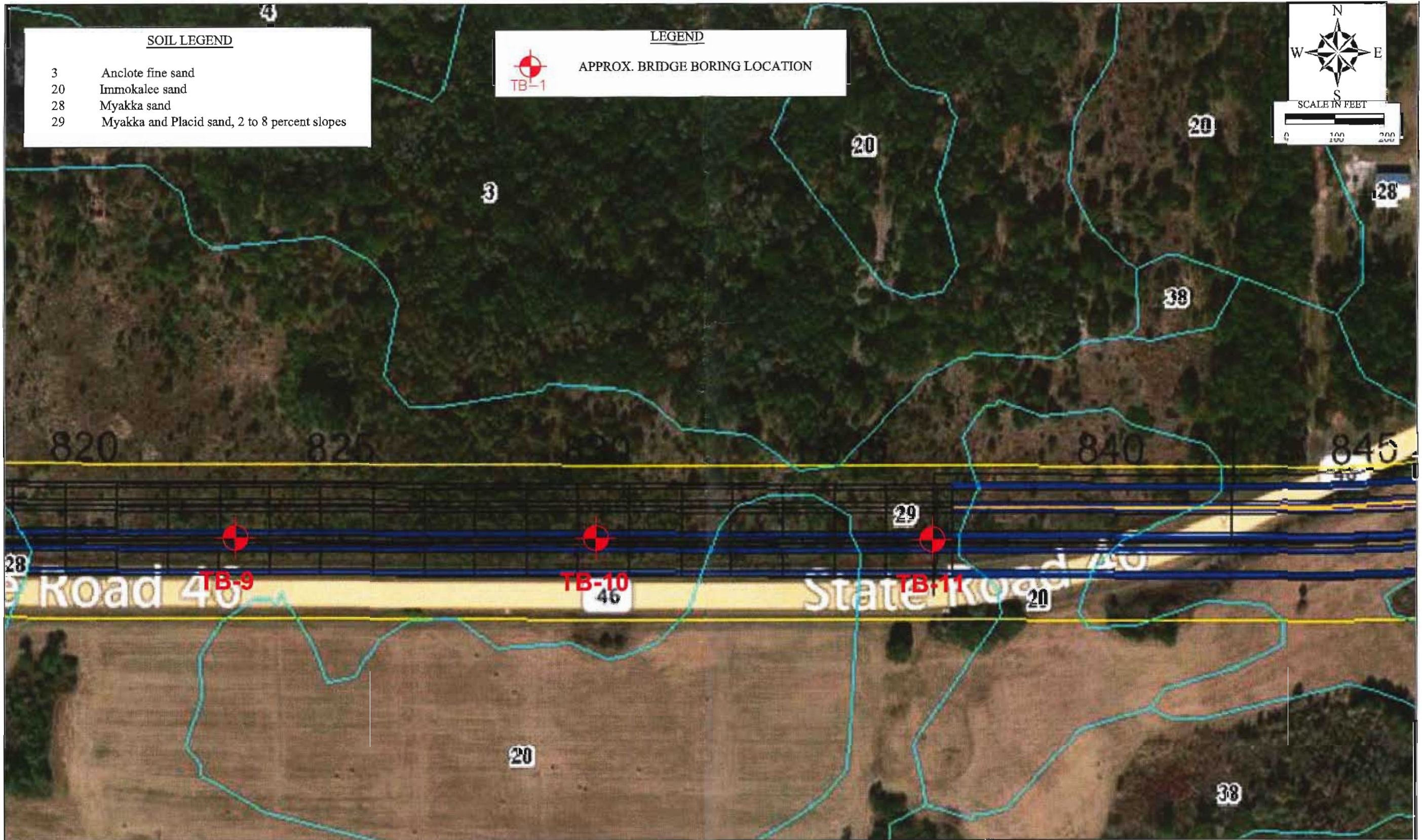
	NAMES	DATES
Drawn by:	AGA	5-15-12
Checked by:	GNN	5-15-12
Designed by:	N/A	N/A
Checked by:	N/A	N/A
Approved by:		

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	
COUNTY	FPID PROJECT NO.
LAKE	431081-3-32-01

TITLE: BORING LOCATION MAP SR 429 over Wildlife Crossing No. 2	
PROJECT NAME:	SHEET NO.
WEKIVA PARKWAY LINE & GRADE - Lake County East Section	

NOTICE: The official record of this plan sheet is the electronic file signed and sealed under rule 61G15-23.003, F.A.C.

FIGURE 5C

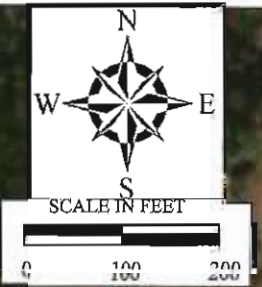


**SOIL LEGEND**

3	Anclote fine sand
20	Immokalee sand
28	Myakka sand
29	Myakka and Placid sand, 2 to 8 percent slopes

**LEGEND**

	APPROX. BRIDGE BORING LOCATION
--	--------------------------------



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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAMES	DATES
Drawn by: AGA	5-15-12
Checked by: GNN	5-15-12
Designed by: N/A	N/A
Checked by: N/A	N/A
Approved by:	

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	
COUNTY	FPID PROJECT NO.
LAKE	431081-3-32-01

TITLE: BORING LOCATION MAP SR 429 over Wildlife Crossing No. 2	
PROJECT NAME:	SHEET NO.
WEKIVA PARKWAY LINE & GRADE - Lake County East Section	

NOTICE: The official record of this plan sheet is the electronic file signed and sealed under rule 61G15-23.003, F.A.C.

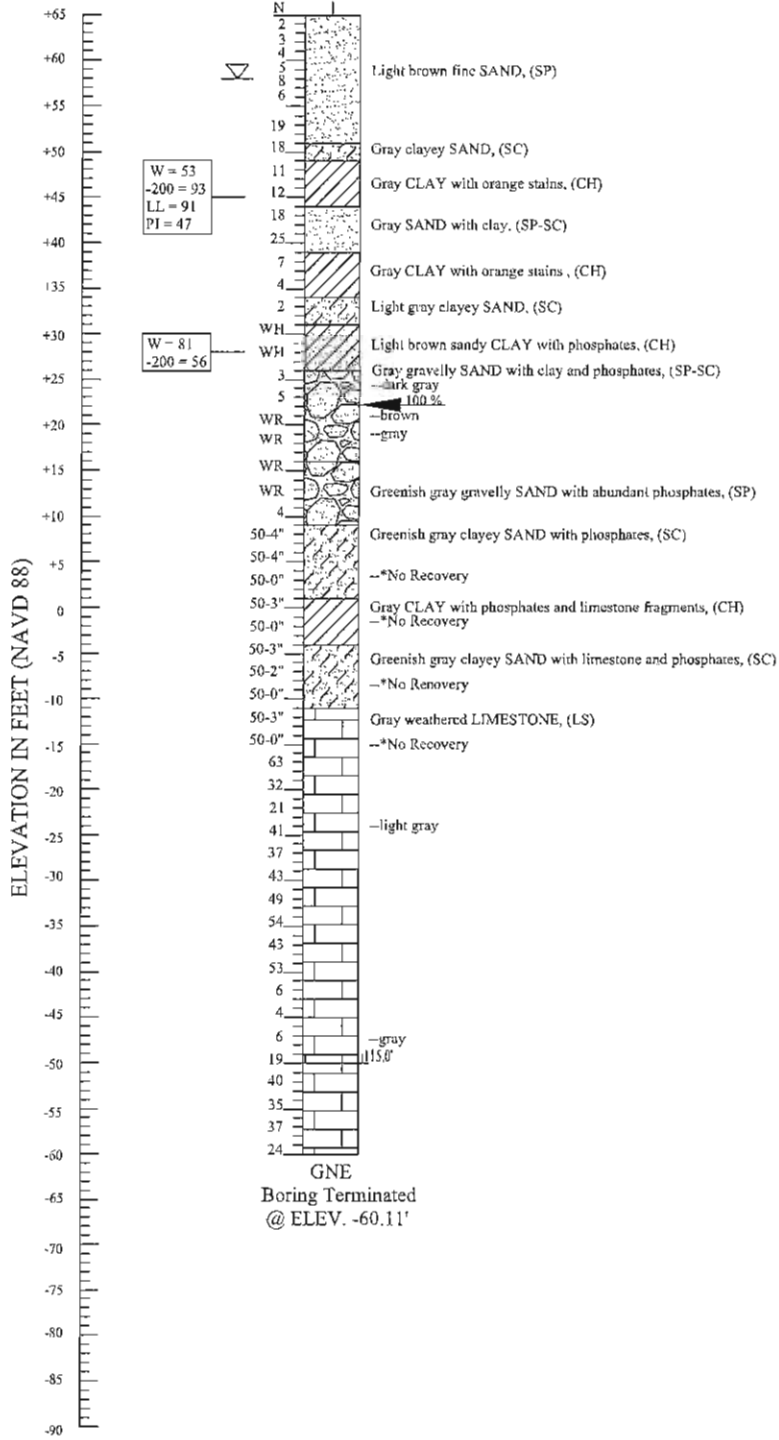
FIGURE 5D

SR 429 over CR 46A

SR 429 over Wildlife Crossing No. 2

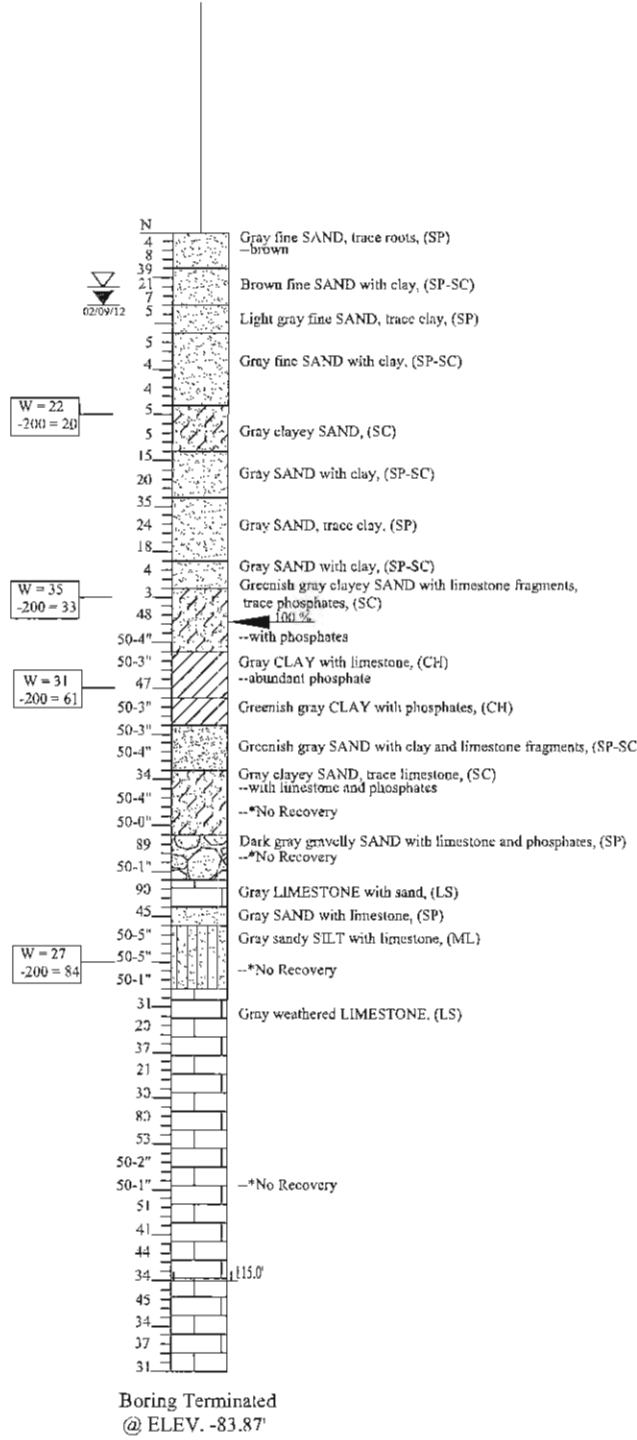
Boring No: TB-4  
 Approximate Station: 758+01  
 Offset: 0.67' RT  
 Elevation: 64.89'  
 Date Drilled: 03/01/2012

LATITUDE: N28°48'50.50"  
 LONGITUDE: W81°28'9.60"



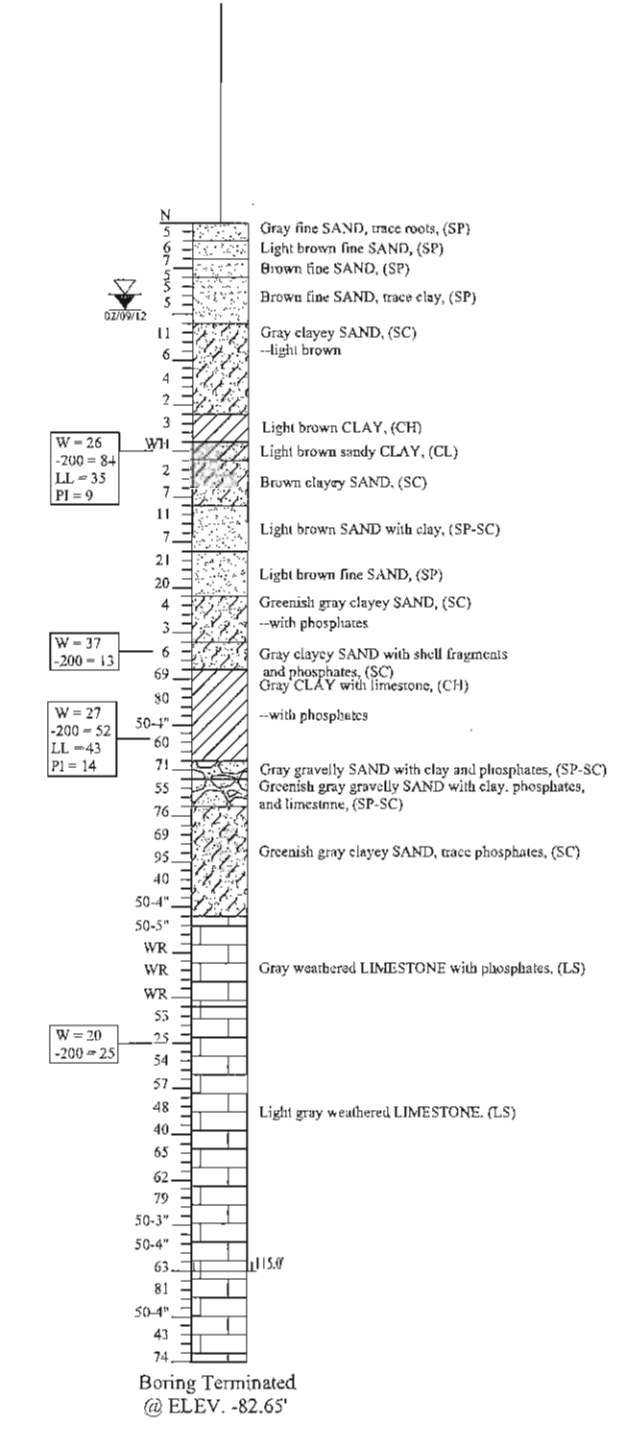
Boring No: TB-5  
 Approximate Station: 796+40  
 Offset: 0.002' LT  
 Elevation: 41.13'  
 Date Drilled: 02/09/2012

LATITUDE: N28°48'41.74"  
 LONGITUDE: W81°27'27.66"

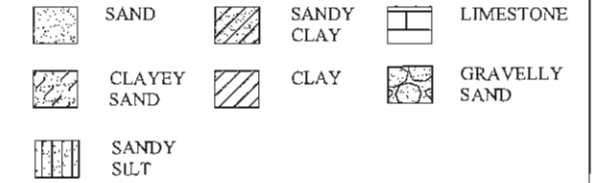


Boring No: TB-6  
 Approximate Station: 802+00  
 Offset: 0.039' LT  
 Elevation: 42.35'  
 Date Drilled: 02/09/2012

LATITUDE: N28°48'41.15"  
 LONGITUDE: W81°27'21.40"



LEGEND



(SP) Unified soil classification group symbol  
 Estimated seasonal high groundwater level  
 Groundwater level on date shown  
 GNE Groundwater not encountered in top 10 feet  
 Depth to which NW casing was driven in feet  
 Percent Loss of Circulation of Drilling Fluid  
 W = Natural moisture content (%) (FM 1-T 265)  
 -200 = Percent passing no. 200 U.S. standard sieve (%) (FM 1-T 088)  
 LL = Liquid Limit (%) (FM 1-T 089)  
 PI = Plasticity Index (%) (FM 1-T 090)

N Standard penetration resistance in blows per foot  
**Standard Penetration Test Data**  
 Spoon Inside Dia. 1 3/8 in.  
 Spoon Outside Dia. 2 in.  
 ASTM Standard Automatic Hammer  
 Avg. Hammer Drop 30 in.  
 Hammer Weight 140 lbs.

NOTES

- Plan view is preliminary for showing boring locations only and may not be indicative of final plans.
- Subsurface variations between borings should be anticipated as indicated in Section 2-4 of the Standard Specifications.

GRANULAR MATERIALS

RELATIVE DENSITY	SPT (BLOWS/FT.)
Very loose	Less than 3
Loose	3-7
Medium Dense	7-21
Dense	21-35
Very Dense	

SILTS AND CLAYS

CONSISTENCY	SPT (BLOWS/FT.)
Very soft	Less than 1
Soft	1-3
Firm	3-6
Stiff	6-11
Very Stiff	11-21
Hard	

ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE	TB-5	SUPERSTRUCTURE
Concrete:	Slightly Aggressive	Slightly Aggressive
Steel:	Slightly Aggressive	Slightly Aggressive

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NOTICE: The official record of this plan sheet is the electronic file signed and sealed under rule 61G15-23.003, F.A.C.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAMES	DATES
Drawn by: AGA	05-14-12
Checked by: GNN	05-14-12
Designed by: N/A	N/A
Checked by: N/A	N/A
Approved by: GNN	

ENGINEER OF RECORD:  
**NES**  
 NADIC ENGINEERING SERVICES, INC.  
 601 N. HART BLVD.  
 ORLANDO, FL 32813  
 CERTIFICATE OF AUTHORIZATION NO. 00008214  
 DR. GODWIN N. NNADI P.E. NO. 50637

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

COUNTY: LAKE  
 EPID PROJECT NO.: 431081-3-32-01

SHEET TITLE:  
**REPORT OF SPT BORINGS FOR STRUCTURES**

PROJECT NAME:  
 WEKIVA PARKWAY LINE & GRADE  
 - LAKE COUNTY

SHEET NO.:

SR 429 over Wildlife Crossing No. 2

Boring No:  
Approximate Station:  
Offset:  
Elevation:  
Date Drilled:

TB-7  
809+00  
0.015' LT  
39.42'  
02/11/2012  
LATITUDE: N28°48'40.70"  
LONGITUDE: W81°27'13.55"

TB-8  
816+00  
0.024' RT  
34.8'  
02/13/2012  
LATITUDE: N28°48'40.57"  
LONGITUDE: W81°27'5.68"

TB-9  
823+00  
0.025' RT  
30.9'  
02/18/2012  
LATITUDE: N28°48'40.57"  
LONGITUDE: W81°26'57.82"

**LEGEND**

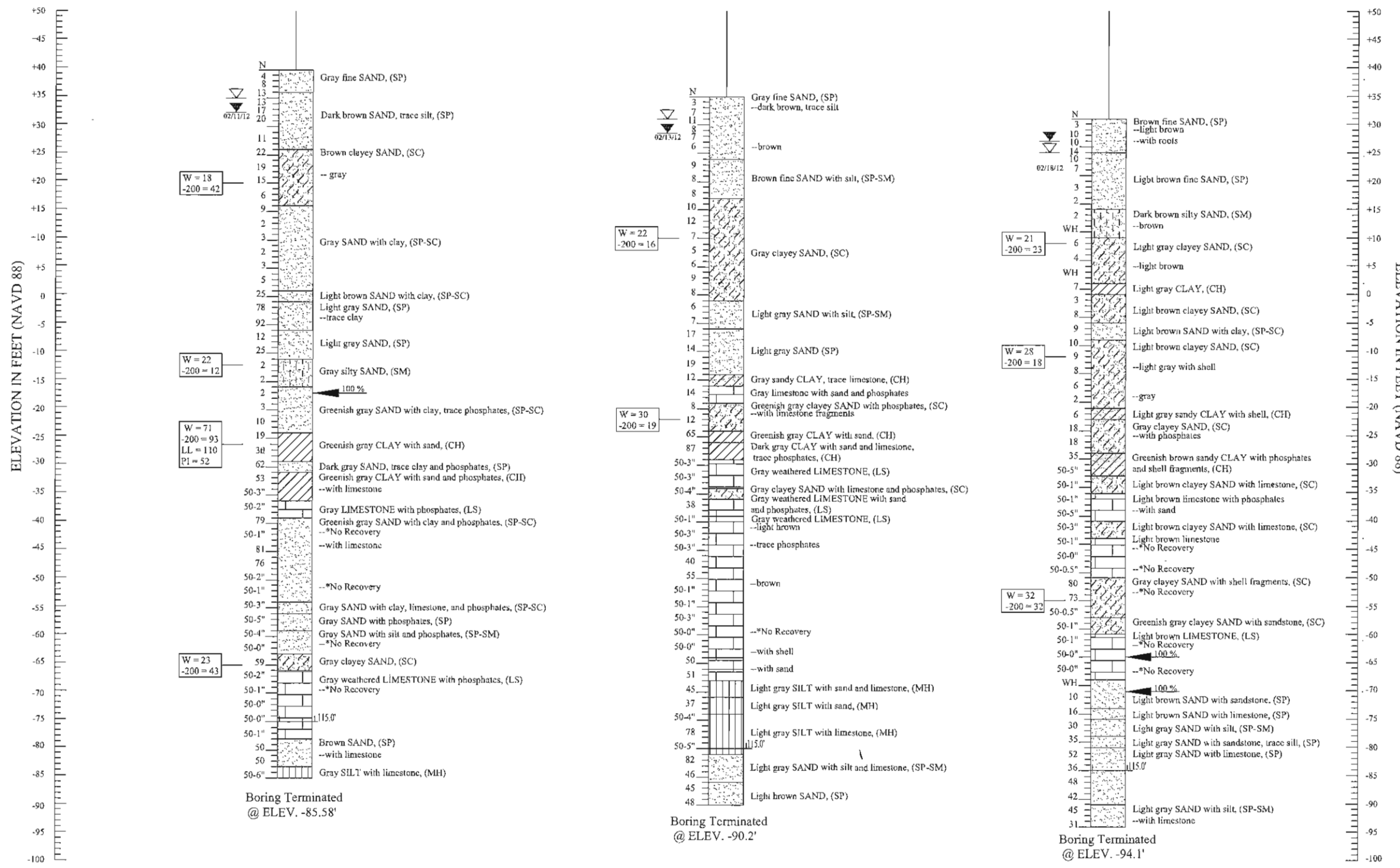
	SAND		SANDY CLAY		LIMESTONE
	CLAYEY SAND		CLAY		SILT
	GRAVELLY SAND		SILTY SAND		

(SP) Unified soil classification group symbol  
 Estimated seasonal high groundwater level  
 Groundwater level on date shown  
 Depth to which NW casing was driven in feet  
 Percent Loss of Circulation of Drilling Fluid  

W =	Natural moisture content (%) (FM 1-T 265)
-200 =	Percent passing no. 200 U.S. standard sieve (%) (FM 1-T 088)
LL =	Liquid Limit (%) (FM 1-T 089)
PI =	Plasticity Index (%) (FM 1-T 090)

N Standard penetration resistance in blows per foot  
**Standard Penetration Test Data**  
 Spoon Inside Dia. 1 3/8 in.  
 Spoon Outside Dia. 2 in.  
 ASTM Standard Automatic Hammer  
 Avg. Hammer Drop 30 in.  
 Hammer Weight 140 lbs.

- NOTES**
- Plan view is preliminary for showing boring locations only and may not be indicative of final plans.
  - Subsurface variations between borings should be anticipated as indicated in Section 2-4 of the Standard Specifications.



GRANULAR MATERIALS	
RELATIVE DENSITY	SPT (BLOWS/FT.)
Very loose	Less than 3
Loose	3-7
Medium Dense	7-21
Dense	21-35
Very Dense	
SILTS AND CLAYS	
CONSISTENCY	SPT (BLOWS/FT.)
Very soft	Less than 1
Soft	1-3
Firm	3-6
Stiff	6-11
Very Stiff	11-21
Hard	
ENVIRONMENTAL CLASSIFICATION	
SUBSTRUCTURE	SUPERSTRUCTURE
Concrete:	Moderately Aggressive <b>TB-8</b> Slightly Aggressive
Steel:	Extremely Aggressive Slightly Aggressive

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAMES	DATES
Drawn by: AGA	05-14-12
Checked by: GNN	05-14-12
Designed by: N/A	N/A
Checked by: N/A	N/A
Approved by: GNN	

ENGINEER OF RECORD:  
**NES**  
 NADIC ENGINEERING SERVICES, INC.  
 601 N. HART BLVD.  
 ORLANDO, FL 32818  
 CERTIFICATE OF AUTHORIZATION NO. 00008214  
 DR. GODWIN N. NNADI P.E. NO. 50637

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION  
 COUNTY: LAKE  
 FPD PROJECT NO.: 431081-3-32-01

SHEET TITLE:  
**REPORT OF SPT BORINGS FOR STRUCTURES**  
 PROJECT NAME:  
**WEKIVA PARKWAY LINE & GRADE - LAKE COUNTY**  
 SHEET NO.:

NOTICE: The official record of this plan sheet is the electronic file signed and sealed under rule 61G15-23.003, F.A.C.



SR 429 over Wildlife Crossing No. 2

SR 429 over Wekiva River Road

Boring No: TB-10  
 Approximate Station: 830+00  
 Offset: 0.14' RT  
 Elevation: 30.54'  
 Date Drilled: 03/15/2012

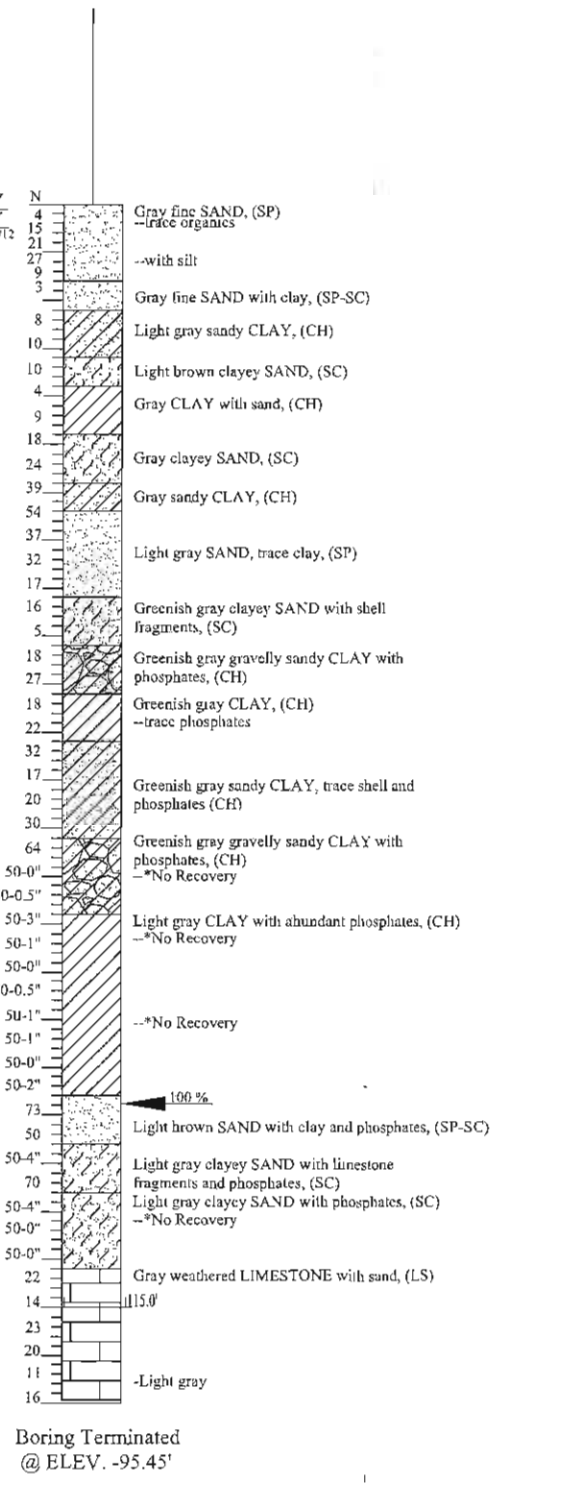
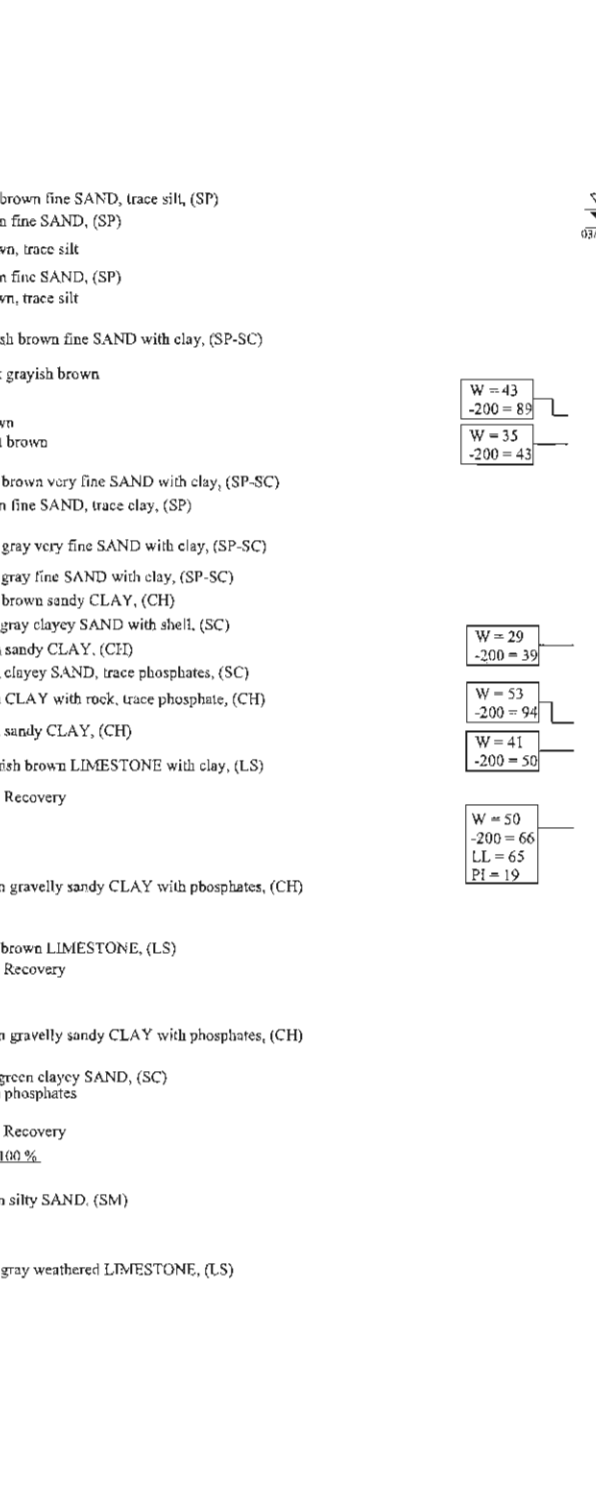
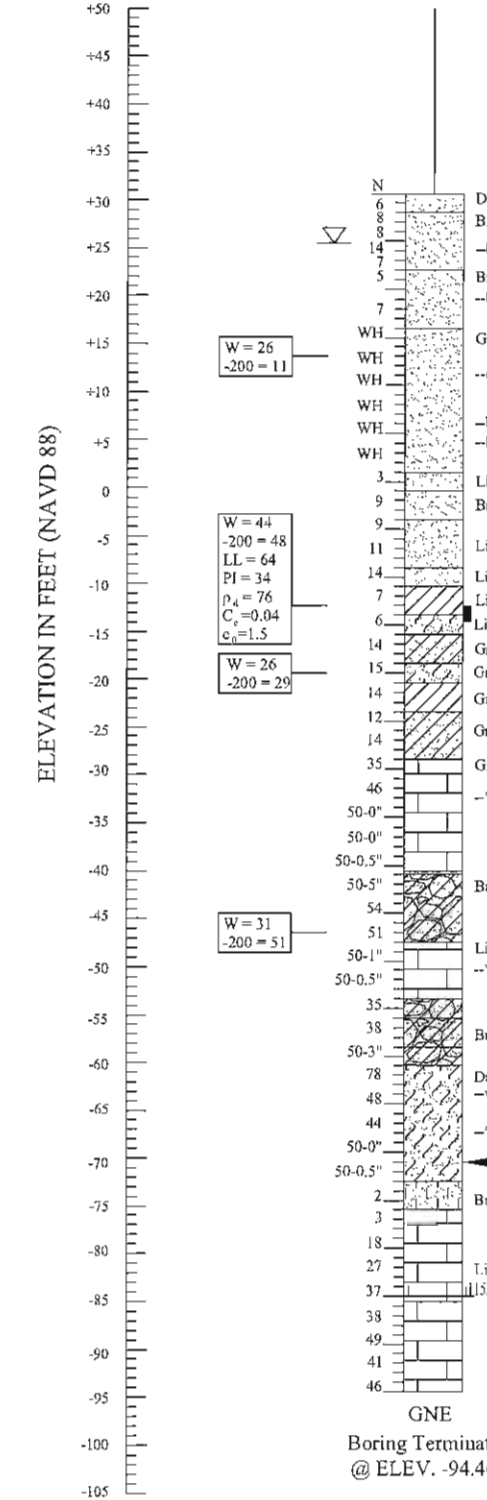
LATITUDE: N28°48'40.56"  
 LONGITUDE: W81°26'49.95"

Boring No: TB-11  
 Approximate Station: 837+00  
 Offset: 0.11' LT  
 Elevation: 29.55'  
 Date Drilled: 03/20/2012

LATITUDE: N28°48'40.56"  
 LONGITUDE: W81°26'42.08"

Boring No: TB-12  
 Approximate Station: 899+16  
 Offset: 26.44' LT  
 Elevation: 40.76'  
 Date Drilled: 03/19/2012

LATITUDE: N28°48'55.79"  
 LONGITUDE: W81°25'35.18"



**LEGEND**

	SAND		SANDY CLAY		LIMESTONE
	CLAYEY SAND		CLAY		SILTY SAND
	GRAVELLY SANDY CLAY				

- (SP) Unified soil classification group symbol
- Estimated seasonal high groundwater level
- Groundwater level on date shown
- GNE Groundwater not encountered in top 10 feet
- Depth to which NW casing was driven in feet
- Percent Loss of Circulation of Drilling Fluid
- Undisturbed Sample (Shelby Tube)
- W = Natural moisture content (%) (FM 1-T 265)
- 200 = Percent passing no. 200 U.S. standard sieve (%) (FM 1-T 088)
- LL = Liquid Limit (%) (FM 1-T 089)
- PI = Plasticity Index (%) (FM 1-T 090)
- $\rho_d$  = Dry Density (pcf)
- $C_c$  = Compression Index
- $e_0$  = Initial Void Ratio
- N Standard penetration resistance in blows per foot

**Standard Penetration Test Data**

Spoon Inside Dia.	1 3/8 in.
Spoon Outside Dia.	2 in.
ASTM Standard Automatic Hammer	
Avg. Hammer Drop	30 in.
Hammer Weight	140 lbs.

- NOTES**
- Plan view is preliminary for showing boring locations only and may not be indicative of final plans.
  - Subsurface variations between borings should be anticipated as indicated in Section 2-4 of the Standard Specifications.

**GRANULAR MATERIALS**

RELATIVE DENSITY	SPT (BLOWS/FT.)
Very loose	Less than 3
Loose	3-7
Medium Dense	7-21
Dense	21-35
Very Dense	

**SILTS AND CLAYS**

CONSISTENCY	SPT (BLOWS/FT.)
Very soft	Less than 1
Soft	1-3
Firm	3-6
Stiff	6-11
Very Stiff	11-21
Hard	

**ENVIRONMENTAL CLASSIFICATION**

SUBSTRUCTURE	TB-12	SUPERSTRUCTURE
Concrete:	Slightly Aggressive	Slightly Aggressive
Steel:	Slightly Aggressive	Slightly Aggressive

Z:\Roadways\Gnnadi\Wekiva Parkway\ATKINS\_Lake County\Bridges\Acad

NOTICE: The official record of this plan sheet is the electronic file signed and sealed under rule 61G15-23.003, F.A.C.

**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

**NAMES DATES**

Drawn by:	AGA	05-14-12
Checked by:	GNN	05-14-12
Designed by:	N/A	N/A
Checked by:	N/A	N/A
Approved by:	GNN	

ENGINEER OF RECORD:  
**NES**  
 NADIC ENGINEERING SERVICES, INC.  
 601 N. HART BLVD.  
 ORLANDO, FL 32818  
 CERTIFICATE OF AUTHORIZATION NO. 00006214  
 DR. GODWIN N. NNADI P.E. NO. 50637

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION  
 COUNTY: LAKE  
 FPID PROJECT NO.: 431081-3-32-01

SHEET TITLE:  
**REPORT OF SPT BORINGS FOR STRUCTURES**  
 PROJECT NAME:  
**WEKIVA PARKWAY LINE & GRADE - LAKE COUNTY**  
 SHEET NO.: