

PRELIMINARY GEOTECHNICAL EXPLORATION SERVICES REPORT

CONDUCTED FOR:

Wild Blue Due Diligence
Off Corkscrew Road
Estero, Lee County, Florida

PREPARED FOR:

Mr. Patrick Gonzalez, P.E.
Vice President of Land Development
CalAtlantic Group Inc.
825 Coral Ridge Drive
Coral Springs, Florida 33071

16 February 2017
YPC Project No. 17GY102



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Florida Certificate of Authorization No. 28233*

Mr. Patrick Gonzalez, P.E.
Vice President of Land Development
CalAtlantic Group Inc.
825 Coral Ridge Drive
Coral Springs, Florida 33071

16 February 2017

**Subject: Preliminary Geotechnical Exploration Services Report
Wild Blue Due Diligence
Off Corkscrew Road
Estero, Lee County, Florida**

YPC Project No. 17GY102

Dear Mr. Gonzalez:

YPC Consulting Group, P.L. (YPC) is pleased to submit the *Preliminary Geotechnical Exploration Services Report* for the project referenced above.

It has been a pleasure to work for you on this project. Please contact us should you have any questions or if you require additional information.

Sincerely,

YPC Consulting Group, P.L.

Nicholas Araica / YPC

Nicholas Araica, E.I.
Project Engineer



Yen-Po Chiu, P.E.
Senior Project Manager

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- | | |
|---|--|
| • Geotechnical Engineering | • Pre-Condition Surveys |
| • Construction Materials Testing | • Threshold Inspection Services |
| • Pile Monitoring Services | • Vibration Monitoring Services |

Mr. Patrick Gonzalez, P.E.
CalAtlantic Group Inc.
Preliminary Geotechnical Exploration Service Report
Wild Blue Due Diligence
Off Corkscrew Road
Estero, Lee County, Florida
YPC Project No. 17GY102

YPC Consulting Group, P.L.
16 February 2017

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1.0 INTRODUCTION

1.1 Terms of Reference

YPC Consulting Group, P.L. (YPC) was retained by the Client to provide preliminary geotechnical exploration services for the Wild Blue Due Diligence Project located off Corkscrew Road in Estero, Collier County, Florida (hereafter referred to as the "project site"). Please refer to **Figure 1** for a Project Site Location and Vicinity Map. These services were performed in general accordance with the revised YPC Proposal No. 16650YFM dated 9 January 2017, and subsequent written authorization by the Client.

1.2 Project Description

The geotechnical scope of services for the proposed project at this time included drilling test borings and collecting Limerock Bearing Ratio (LBR) samples at selected locations throughout the site to determine the depths to the rock strata and the general subsurface soil conditions, LBR values, and approximate depths of organic/muck in the wetland areas. The number, depths, and approximate locations of the test borings were selected in coordination with the Client. A total of eighty (80), 10-ft to 30-ft deep Standard Penetration Test (SPT) borings were original planned. Due to accessibility issues, however, seventy (70) SPT borings were able to be accessed and advanced at the project site. It is understood that the information compiled from the field exploration program by YPC will be utilized by the Client for general planning purposes for the possible residential development at the project site.

1.3 Purpose and Scope of Work

The purpose of the preliminary geotechnical exploration services completed by YPC for the project was to describe, in general terms, soil and ground-water conditions encountered at the project site. To achieve this purpose, the scope of services has included the elements listed below.

- ▶ exploring subsurface soil and groundwater conditions by advancing forty-two (42) SPT borings to depths of approximately 10-ft below the existing ground surface (egs) at the selected locations thought the project site;
- ▶ exploring subsurface soil and groundwater conditions by advancing twenty-eight (28) SPT borings to depths of approximately 30-ft below the egs at the selected locations thought the project site;
- ▶ recording groundwater levels in the test borings;

- ▶ grouting the borings in general accordance with regulatory requirements;
- ▶ evaluating generalized boring data as well as groundwater conditions;
- ▶ performing visual inspection of all soil samples and laboratory tests on selected samples for soil classification purposes;
- ▶ partially evaluating soils in five (5) existing stockpiles at the adjacent parcel by obtaining and testing samples from fourteen (14) locations;
- ▶ obtaining four (4) samples at selected locations near proposed roadways throughout the project to evaluate Limerock Bearing Ratio (LBR) values of the existing soils;
- ▶ estimating subsurface organic/muck depths in wetland areas;
- ▶ providing observations and comments for use by the Client in planning for the project; and,
- ▶ compiling the field exploration data, laboratory test data, and observations and comments in this report of findings.

2.0 FIELD EXPLORATION AND LABORATORY INSPECTION PROGRAMS

2.1 Field Exploration Program

The field exploration program, consisting of the elements described in Section 1.3 above, was performed in general accordance with relevant portions of applicable testing procedures during the period from 13 January to 9 February 2017.

The test borings were advanced by two drilling subcontractors, under the supervision of an YPC engineer, using a wet-rotary procedure. Representative soil samples were obtained using split-barrel sampling procedures. In this procedure, a 2-in. outer-diameter, split-barrel sampler is driven into the soil by a 140-lb hammer with a free-fall of 30-in. The number of blows required to drive the sampler through a 12-in. interval is termed the Standard Penetration Resistance, or "N", value, and is indicated for each sample on the boring logs. The "N" value is an indication of the relative density of granular soils in-situ.

Soil samples obtained during the field exploration program were sealed immediately in the field and brought to YPC's laboratory for further examination and testing. The test boring locations were selected in coordination with the Client and staked in the field by the

project surveyor, More Time To Bid, LLC. SPT Boring Log Profiles are included in **Figures 3A through 3M**. The test borings were advanced at the approximate locations illustrated in the Project Layout and Test Location Plan presented in **Figure 2A**.

A total of fourteen (14) soil samples from five (5) stockpiles in the northeast portion of the adjacent parcel were obtained by YPC representatives. The purpose of the stockpile sampling program was to determine the soil classifications in the existing soils in the stockpiles. The Stockpile Laboratory Testing Location Plan and Stockpile Lab Results are included in **Figure 2B** and **Appendix A**, respectively.

A total of four (4) LBR sampling locations throughout the project site were selected by a YPC representative near the proposed roadways to determine the LBR values of existing soils. The LBR samples were retrieved at the approximate locations illustrated in the Project Layout and Test Location Plan presented in **Figure 2A** and Limerock Bearing Ratio Test Results are presented in **APPENDIX B**.

A total of six (6) locations were evaluated to estimate approximate organic/muck depth in the impacted wetland areas near the peninsula and the proposed amenity center. The locations were selected by a YPC representative, to determine depth of surficial organic material. The Wetland Organic Depth Verification Location Plan is presented in **Figure 2C**. it is noted that muck depth evaluation efforts in the wetland areas were limited by the presence of standing water or high groundwater levels in places.

2.2 Laboratory Inspection Program

Laboratory inspection of soil samples is generally performed to assist in the classification of soils based on their mechanical and physical behavior. It is noted that the indicated boundaries between soil types are approximate, and that actual transition between soil types may be gradual. Tests were performed on selected samples retrieved for this project to determine moisture contents and percent passing a #200 U. S. standard sieve (i.e., percent silt and/or clay particles). All soil samples were visually inspected by a geotechnical engineer and classified in general accordance with the Unified Soil Classification System (USCS), modified as necessary to describe typical southwest Florida conditions. Laboratory test results are indicated on the individual SPT Boring Log Profiles presented in **Figure 3A through 3M**.

3.0 SITE FEATURES, GROUNDWATER, AND SOIL CONDITIONS

3.1 Site Features

The project site is located off of Corkscrew Road in Estero, Lee County, Florida. The project site is heavily wooded with trees and other vegetation and includes wetlands and

several large lakes. In the past, the project site was utilized as a rock quarry. Several large stockpiles of soils are scattered throughout the project site. Some parts of the project site have been or are currently utilized for agriculture. Existing haul roads and trails provided paths to access the boring locations. The existing ground surface elevations at the test boring locations at the time of soil exploration ranged from +16.9-ft to +23.8-ft NAVD 88 vertical datum.

3.2 Groundwater Conditions

At the time of the field exploration program, the groundwater levels were recorded at elevations ranging from approximately +12.5-ft to +19.5-ft NAVD 88 vertical datum in the test borings. Groundwater was not encountered in test borings SB-45, SB-70, SB-73, SB-76, and SB-77. It is noted that any groundwater table will be subject to fluctuation due to seasonal climatic changes, tidal influences, construction and development activities, rainfall variations, surface-water runoff, extent of artificial drainage, tidal fluctuations, and other site-specific factors. Since ground-water level variations are anticipated, design drawings and specification should incorporate such possibilities and provide for dewatering, as required, during construction.

3.3 Subsurface Soil Conditions

General subsurface soil conditions at the boring locations are described below, from the eggs to the termination depths of the borings (refer to **Figure 2A** for the Test Location Plan).

10-ft Deep SPT Borings:

- ▶ Subsurface soils encountered in test borings SB-36, SB-38, SB-42 through SB-46, SB-50 through SB-52, SB-54 through SB-56, SB-59 through SB-61, SB-64, SB-66, SB-67, and SB-70 through SB-77 advanced at the project site generally consist of **poorly-graded sand (SP)** and/or **poorly-graded sand with silt (SP-SM)** from the eggs to the boring termination depths 10-ft below the eggs.
- ▶ Subsurface soils encountered in test borings SB-37, SB-39, SB-40, and SB-63 advanced at the project site generally consist of **poorly-graded sand (SP)** and/or **poorly-graded sand with silt (SP-SM)** and **clayey sand (SC)** from the eggs to the boring termination depths 10-ft below the eggs.
- ▶ Subsurface soils encountered in test borings SB-47, SB-48, SB-49, SB-53, and SB-58 advanced at the project site generally consist of **poorly-graded sand (SP)** and/or **poorly-graded sand with silt (SP-SM)** and **weathered/fractured**

limestone (WLS) from the eggs to the boring termination depths 10-ft below the eggs.

- ▶ Subsurface soils encountered in test borings SB-62, SB-69, and SB-78 advanced at the project site generally consist of **poorly-graded sand (SP)** and/or **poorly-graded sand with silt (SP-SM)** and **limestone (LS)** from the eggs to the boring termination depths 10-ft below the eggs.
- ▶ Subsurface soils encountered in test boring SB-65 advanced at the project site generally consist of **poorly-graded sand (SP)**, **limestone (LS)**, and **silty sand (SM)** from the eggs to the boring termination depth 10-ft below the eggs.
- ▶ Subsurface soils encountered in test boring SB-68 advanced at the project site generally consist of **poorly-graded sand (SP)** and/or **poorly-graded sand with silt (SP-SM)**, **clayey sand (SC)**, and **weathered/fractured limestone (WLS)** from the eggs to the boring termination depth 10-ft below the eggs

30-ft Deep Test Borings:

- ▶ Subsurface soils encountered in test borings SB-1, SB-2, SB-4 through SB-8, SB-19, B-22, SB-27, SB-28, SB-29, SB-33, and SB-35 advanced at the project site generally consist of **poorly-graded sand (SP)** and/or **poorly-graded sand with silt (SP-SM)**, **weathered/fractured limestone (WLS)**, and **limestone (LS)** from the eggs to the boring termination depths 30-ft below the eggs.
- ▶ Subsurface soils encountered in test borings SB-3 and SB-34 advanced at the project site generally consist of **poorly-graded sand (SP)** and/or **poorly-graded sand with silt (SP-SM)**, **silty sand (SM)**, **weathered/fractured limestone (WLS)**, and **limestone (LS)** from the eggs to the boring termination depths 30-ft below the eggs.
- ▶ Subsurface soils encountered in test borings SB-11, SB-14, SB-20, SB-24, SB-25, SB-31, SB-32, and SB-S1 advanced at the project site generally consist of **poorly-graded sand (SP)** and **limestone (LS)** from the eggs to the boring termination depths 30-ft below the eggs.
- ▶ Subsurface soils encountered in test borings SB-12, SB-21, SB-26, and SB-30 advanced at the project site generally consist of **poorly-graded sand (SP)**, **silty sand (SM)**, and **limestone (LS)** from the eggs to the boring termination depths 30-ft below the eggs.

Approximate Wetland Organic/Muck Depth:

- ▶ The depth of surficial organic/muck material was determined to be 3-in to 6-in below the eggs at the indicated locations.

4.0 OBSERVATIONS AND COMMENTS

Based on current conditions and data obtained during the field exploration and visual inspection of soil samples for this project, observations and comments are presented below:

- ▶ Subsurface soils generally consist of poorly-graded sand (SP), poorly-graded sand with silt (SP-SM), silty sand (SM), clayey sand (SC), weathered/fractured limestone (WLS), and limestone (LS) from the eggs to the boring termination depths 10-ft to 30-ft below the eggs.
- ▶ Poorly-graded sand (SP) and poorly-graded sand with silt (SP-SM) can generally be used as embankment fill or fill beneath structures. Silty sand (SM) and clayey sand (SC) should be mixed with clean sands to reduce the overall fines contents to less than 12% for use as structural fill in building or roadway areas, or their use should be restricted to landscape areas and maintenance berms.
- ▶ Excavation of sandy soils and weathered limestone can generally be achieved with normal, heavy duty earthwork equipment. Excavation and removal of the very hard limestone (LS) encountered in the test borings will require the use of specialized rock excavation equipment or blasting. The presence of hard limestone at other locations not shown in the test borings cannot be ruled out.
- ▶ Based on the subsurface soils information obtained from the test borings advanced by YPC at the site, it is YPC's preliminary opinion that the site can be rendered satisfactory for support of lightly-loaded residential structures. However, this report is preliminary in nature and therefore should be used for general planning purposes only. Specific foundation evaluations and recommendations can only be provided in the future after a more detailed and specific subsurface geotechnical exploration program is completed. This report should not be interpreted to recommend shallow foundation systems for the development. Rather, it should be interpreted only to mean that use of shallow foundation systems is likely, and/or that the near surface soils can likely be rendered satisfactory for support of residential structures using standard earthwork equipment.

5.0 LIMITATIONS

This preliminary geotechnical services report has been prepared for the exclusive use of the Client. No other warranty is expressed nor implied. It is noted that the information presented in this report address only soils and deposits that would normally be influenced by the proposed construction. The scope of services does not include an evaluation of deep soil or rock conditions where limestone cavities may exist due to sinkhole activity. Deep borings/ soundings, geophysical exploration, and/or resistivity surveys would be required in order to evaluate the structural condition and stability of deep soil and rock formations, and is beyond the scope of services for this project.

This report has been prepared to aid in the evaluation of the property and to assist the owner and/or engineer in planning and design of this project. The scope of services is limited to the specific project and locations described herein, and the description of the project as described herein represents YPC's understanding of significant project aspects related to soil characteristics. In the event that any changes in the design or location of the structures as outlined in the report are planned, YPC must be informed so that the changes can be reviewed and the conclusions of this report modified or approved in writing. **Any conclusions or recommendations made by others based on the data contained herein are not the responsibility of YPC, unless we are advised of the same in writing and given the opportunity to review those conclusions and recommendations.**

The analyses and recommendations submitted in this report are based upon the data obtained from field exploration program at locations indicated in the Test Location Plan presented in **Figure 2A**, as well as any other information discussed in this report. In the performance of a subsurface exploration, specific information is obtained at specific locations at specific times. However, it is known that site and subsurface conditions can change over time. Additionally, variations in soil and rock exist on most sites between test locations. The nature and extent of such variations may not become evident until after the start of construction. If variations appear, it will be necessary to re-evaluate the recommendations of this report after performing on-site observations during the construction period and/or performing supplemental tests.

It is the responsibility of the Client to see that the recommendations in this report are brought to the attention of all concerned parties. Because of the possibility of unanticipated subsurface conditions occurring, it is recommended that a "changed condition" clause be provided in contracts with the general contractor and with subcontractors involved in foundations or earthwork construction. Furthermore, it is necessary that YPC be retained to review the site preparations and foundation phases of construction. Otherwise, no responsibility for construction compliance with the design concepts, plans, specifications, and recommendations presented herein can be assumed.

Mr. Patrick Gonzalez, P.E.
CalAtlantic Group Inc.
Preliminary Geotechnical Exploration Service Report
Wild Blue Due Diligence
Off Corkscrew Road
Estero, Lee County, Florida
YPC Project No. 17GY102

YPC Consulting Group, P.L.
16 February 2017

The reproduction of any portion of this report in plans or other engineering documents supplied to parties other than the Client or assigned parties must bear the language indicating that the information contained in the report is for general information only, and that neither the Client nor YPC are liable to such parties.

6.0 ACKNOWLEDGMENT

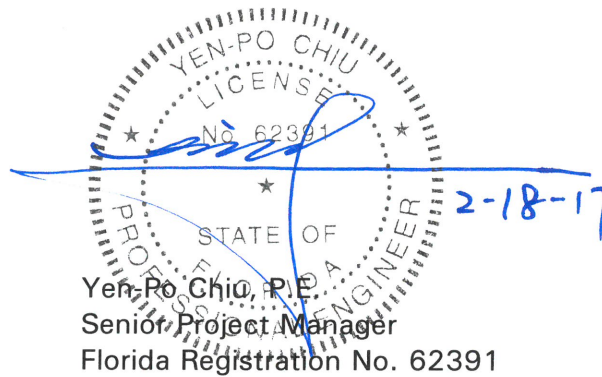
YPC appreciates the opportunity to work with you on this project. Please contact us should you have any questions concerning this report or if you require additional information.

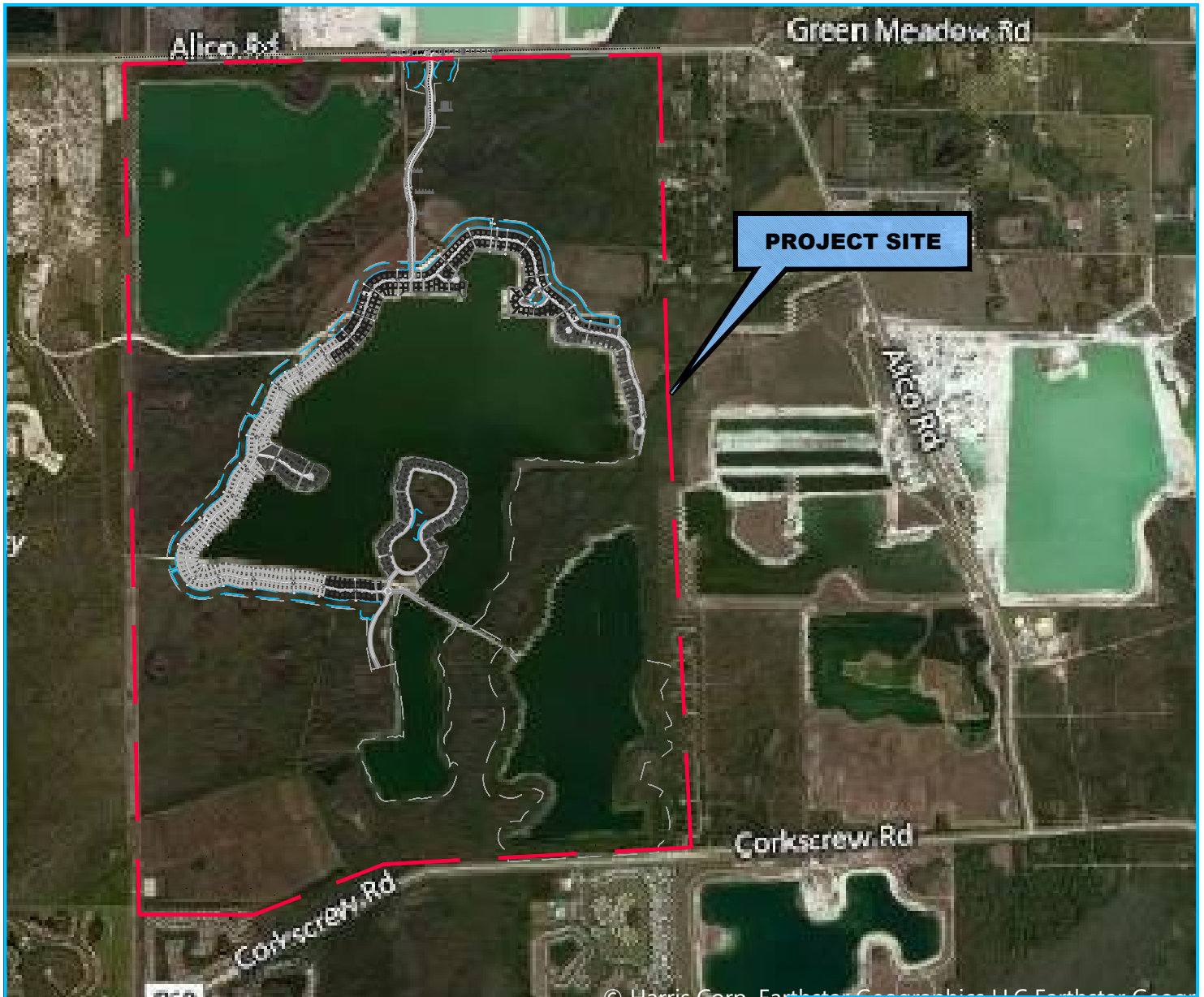
Sincerely,

YPC Consulting Group, P.L.

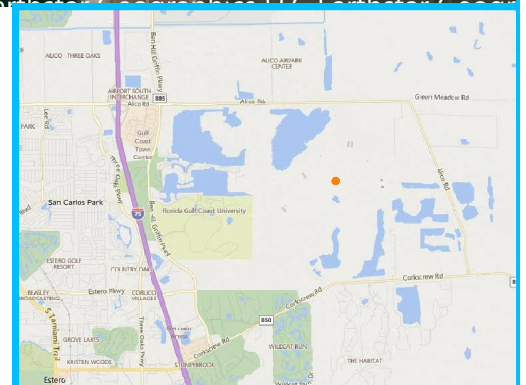
Nicholas Araica / YPC

Nicholas Araica, E.I.
Project Engineer





WGS84
LAT: ° N
LONG: ° W
17GY102.dwg (01-25-2017)



TITLE		SOURCE	FIGURE NO.
Project Site Location and Vicinity Map		Google Earth	1
	DATE	Preliminary Geotechnical Exploration Services Report Wild Blue Due Diligence Off Corkscrew Road Estero, Lee County, Florida for: Mr. Patrick Gonzalez, P.E. CalAtlantic Group Inc. Coral Springs, Florida	
	DRAWN BY		
	CHECKED BY		
	SCALE		
	PROJECT NO.		
		25th January 2017	
		JIDS-JBC	
		YPC	
		nts	
		17GY102	

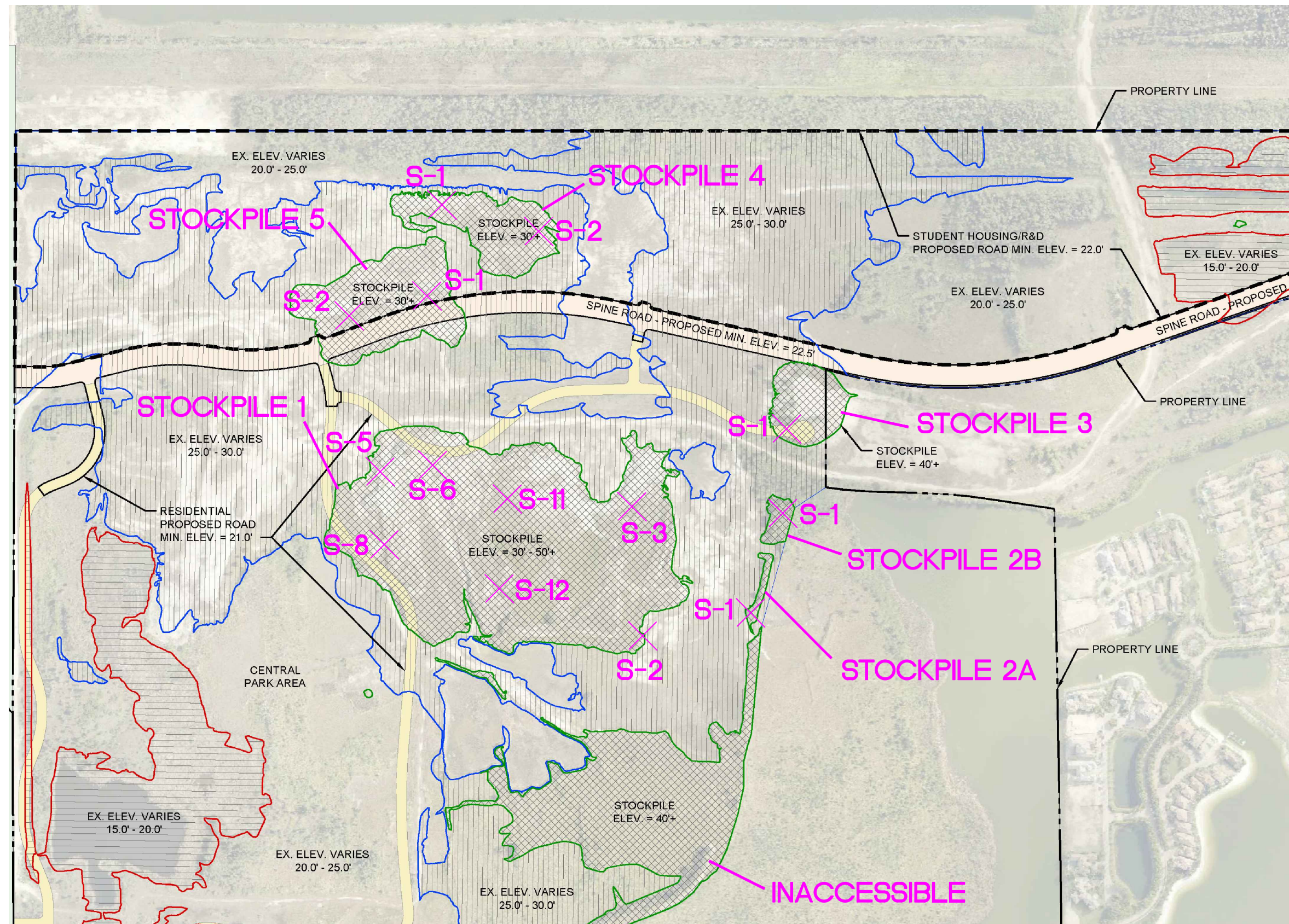


LEGEND	
SB-1	SPT Test Boring(s) Location and Identification.
1-L	LBR Test Location(s) and Identification.

17GY102.dwg (01-25-2017)

NO.	REVISIONS	DATE	BY	NAME	DATE	SEAL	PROJECT NAME	CLIENT	SHEET TITLE	Figure No.
				DESIGNED			Preliminary Geotechnical Exploration Services Report	Mr. Patrick Gonzalez, P.E.	Project Layout and Test Location Plan	2A
				DRAWN	JIDS	01/17	Wild Blue Due Diligence	CalAtlantic Group Inc.		
				CHECKED	YPC	01/17	Off Corkscrew Road	Coral Springs, Florida	SOURCE Base Plan Acquired from:	PROJECT NO.
				APPROVED	YPC	01/17	Estero, Lee County, Florida		More Time to Bid, LLC	17GY102

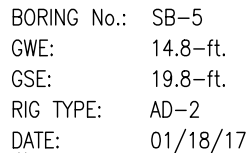
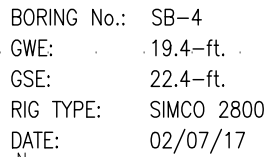
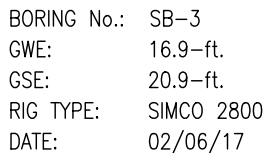
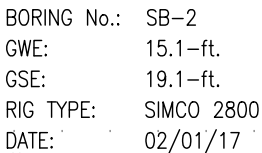
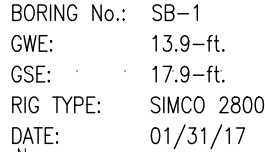




LEGEND	
S-1	Stockpile Test(s) Location and Identification.

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NO.		REVISIONS		DATE	BY		NAME	DATE		SEAL	PROJECT NAME Preliminary Geotechnical Exploration Services Report Wild Blue Due Diligence Off Corkscrew Road Estero, Lee County, Florida	CLIENT Mr. Patrick Gonzalez, P.E. CalAtlantic Group Inc. Coral Springs, Florida	SHEET TITLE		Figure No.	
						DESIGNED							Stockpile Laboratory Testing Location Plan		2B	
						DRAWN	JIDS	01/17								
						CHECKED	YPC	01/17								
						APPROVED	YPC	01/17								
											SOURCE		Base Plan Acquired from: More Time to Bid, LLC		PROJECT NO. 17GY102	



LEGEND

SOIL PROPERTIES

GRANULAR SOILS (COHESIONLESS)

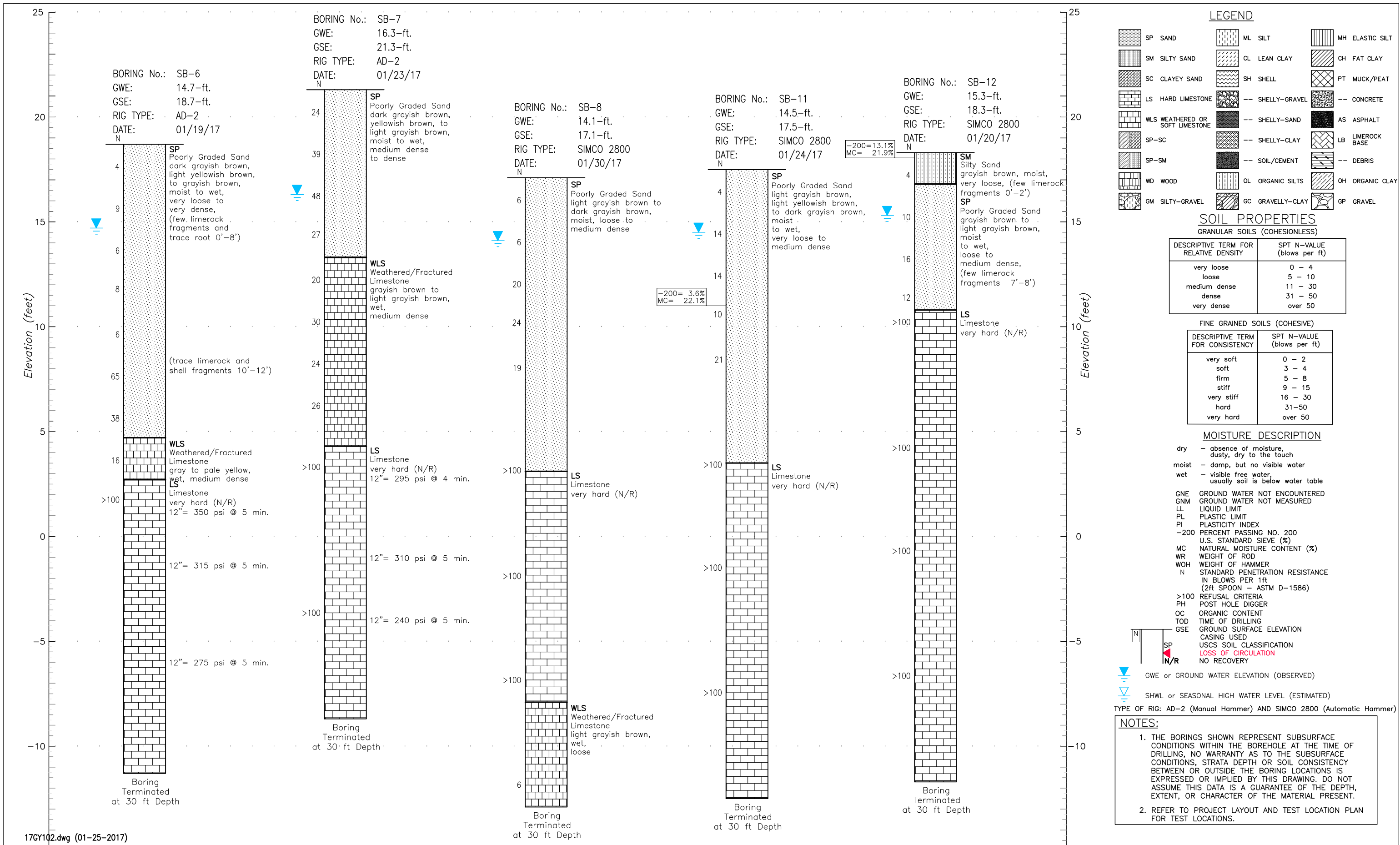
FINE GRAINED SOILS (COHESIVE)	
DESCRIPTIVE TERM	SPT N-VALUE

MOISTURE DESCRIPTION

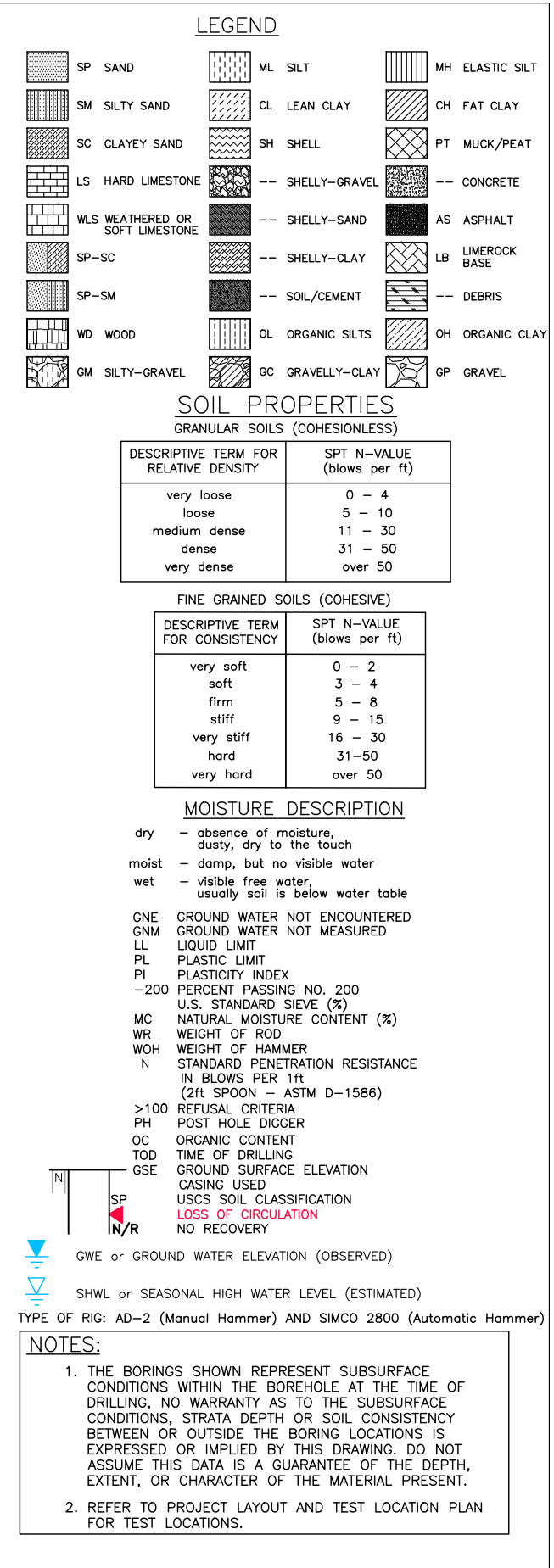
GROUND WATER NOT ENCOUNTERED
GROUND WATER NOT MEASURED
LIQUID LIMIT
PLASTIC LIMIT
PLASTICITY INDEX
PERCENT PASSING NO. 200
U.S. STANDARD SIEVE (%)
NATURAL MOISTURE CONTENT (%)
WEIGHT OF ROD
WEIGHT OF HAMMER
STANDARD PENETRATION RESISTANCE
IN BLOWS PER 1ft
(2ft SPOON - ASTM D-1586)

N

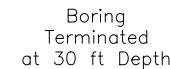
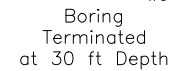
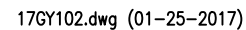
NOTES:



NO.	REVISIONS	DATE	BY	NAME	SEAL	PROJECT NAME	CLIENT	SHEET TITLE	Figure No.
				DESIGNED		Preliminary Geotechnical Exploration Services Report	Mr. Patrick Gonzalez, P.E.	Boring Log Profiles	3B
				DRAWN	JDS 01/17	Wild Blue Due Diligence	CalAtlantic Group Inc.		
				CHECKED	YPC 01/17	Off Corkscrew Road	Coral Springs, Florida		
				APPROVED	YPC 01/17	Estero, Lee County, Florida		Standard Penetration Test Boring Logs	17GY102



NO.	REVISIONS	DATE	BY		NAME			SEAL	PROJECT NAME Preliminary Geotechnical Exploration Services Report Wild Blue Due Diligence Off Corkscrew Road Estero, Lee County, Florida	CLIENT Mr. Patrick Gonzalez, P.E. CalAtlantic Group Inc. Coral Springs, Florida	SHEET TITLE		Figure No.
				DESIGNED							Boring Log Profiles	3C	
				DRAWN	JDS	01/17							
				CHECKED	YPC	01/17					SOURCE	PROJECT NO.	
				APPROVED	YPC	01/17					Standard Penetration Test Boring Logs		17GY102

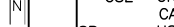


SOIL PROPERTIES

GRANULAR SOILS (COHESIONLESS)

FINE GRAINED SOILS (COHESIVE)

MOISTURE DESCRIPTION



GSE GROUND SURFACE ELEVATION
 CASING USED
 SP USCS SOIL CLASSIFICATION
 N/R LOSS OF CIRCULATION
 NO RECOVERY
 GWE or GROUND WATER ELEVATION (OBSERVED)
 SHWL or SEASONAL HIGH WATER LEVEL (ESTIMATED)

TYPE OF RIG: AD-2 (Manual Hammer) AND SIMCO 2800 (Automatic Hammer)

NOTES:

1. THE BORINGS SHOWN REPRESENT SUBSURFACE CONDITIONS WITHIN THE BOREHOLE AT THE TIME OF DRILLING, NO WARRANTY AS TO THE SUBSURFACE CONDITIONS, STRATA DEPTH OR SOIL CONSISTENCY BETWEEN OR OUTSIDE THE BORING LOCATIONS IS EXPRESSED OR IMPLIED BY THIS DRAWING. DO NOT ASSUME THIS DATA IS A GUARANTEE OF THE DEPTH, EXTENT, OR CHARACTER OF THE MATERIAL PRESENT.
2. REFER TO PROJECT LAYOUT AND TEST LOCATION PLAN FOR TEST LOCATIONS.

NO.	REVISIONS	DATE	BY	NAME	
			DESIGNED		
			DRAWN	JIDS	01/17
			CHECKED	YPC	01/17
			APPROVED	YPC	01/17

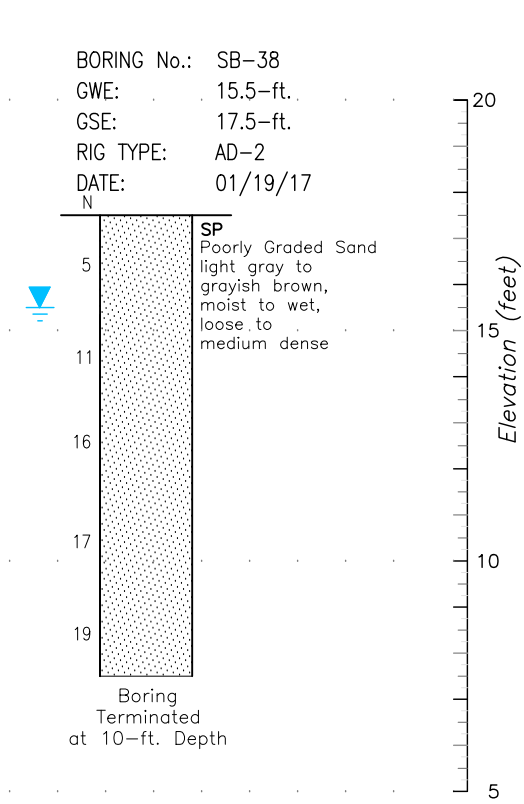
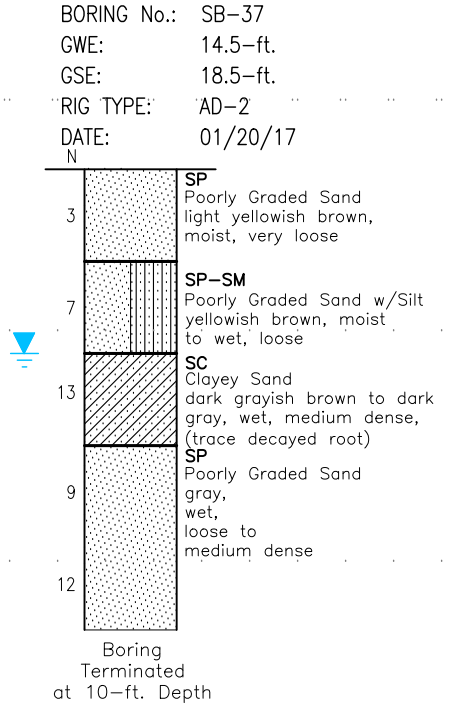
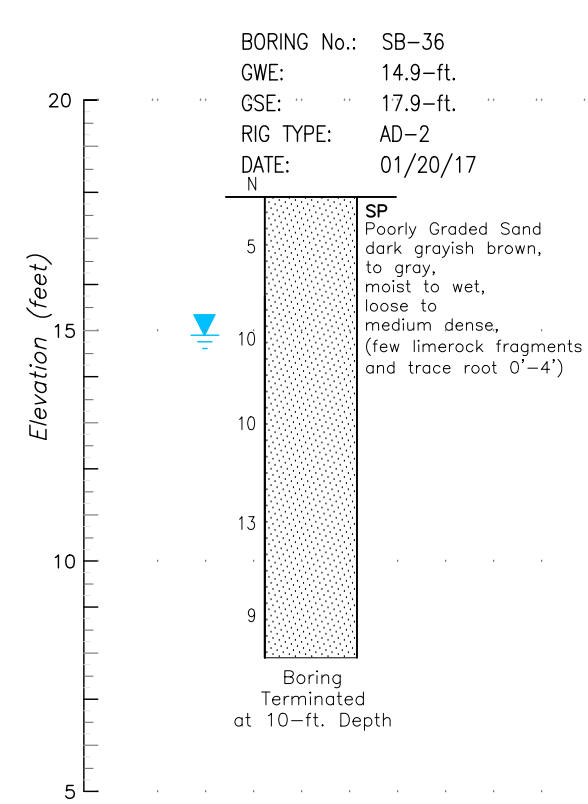


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PROJECT NAME
Preliminary Geotechnical Exploration Services Report
Wild Blue Due Diligence
Off Corkscrew Road
Estero, Lee County, Florida

CLIENT	Mr. Patrick Gonzalez, P.E. CalAtlantic Group Inc. Coral Springs, Florida
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SHEET TITLE		Figure No.
Boring Log Profiles		3F
SOURCE		PROJECT NO.
Standard Penetration Test Boring Logs		17GY102



LEGEND

SP SAND	ML SILT	MH ELASTIC SILT
SM SILTY SAND	CL LEAN CLAY	CH FAT CLAY
SC CLAYEY SAND	SH SHELL	PT MUCK/PEAT
LS HARD LIMESTONE	SHelly-GRAVEL	CONCRETE
WLS WEATHERED OR SOFT LIMESTONE	SHelly-SAND	AS ASPHALT
SP-SC	SHelly-CLAY	LB LIMEROCK BASE
SP-SM	SOIL/CEMENT	DEBRIS
WD WOOD	OL ORGANIC SILTS	OH ORGANIC CLAY
GM SILTY-GRAVEL	GC GRAVELLY-CLAY	GP GRAVEL

SOIL PROPERTIES

GRANULAR SOILS (COHESIONLESS)

DESCRIPTIVE TERM FOR RELATIVE DENSITY	SPT N-VALUE (blows per ft)
very loose	0 - 4
loose	5 - 10
medium dense	11 - 30
dense	31 - 50
very dense	over 50

FINE GRAINED SOILS (COHESIVE)

DESCRIPTIVE TERM FOR CONSISTENCY	SPT N-VALUE (blows per ft)
very soft	0 - 2
soft	3 - 4
firm	5 - 8
stiff	9 - 15
very stiff	16 - 30
hard	31-50
very hard	over 50

MOISTURE DESCRIPTION

dry - absence of moisture, dusty, dry to the touch

moist - damp, but no visible water

wet - visible free water, usually soil is below water table

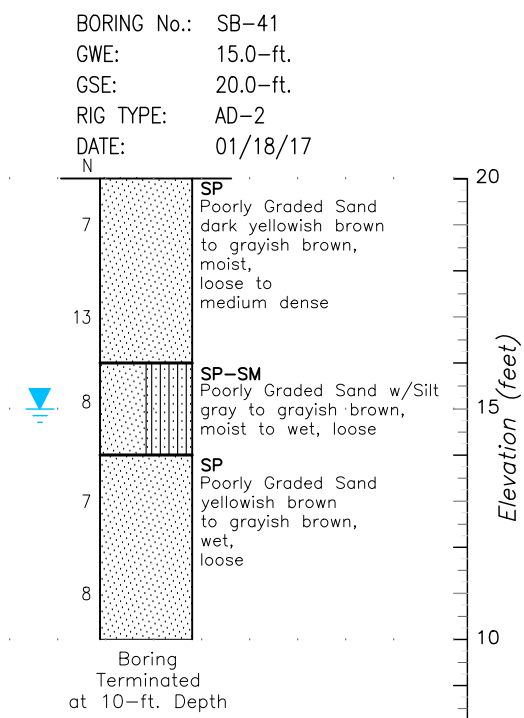
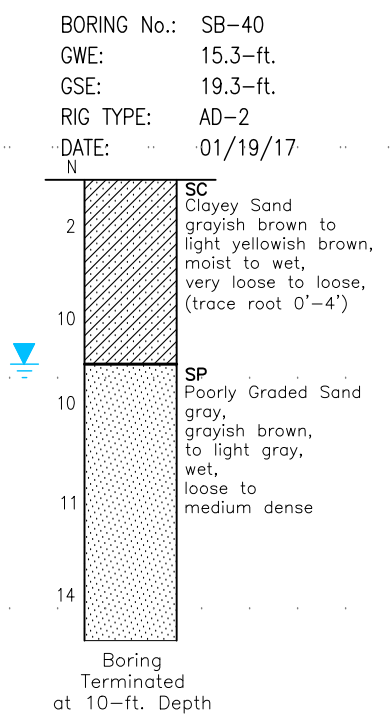
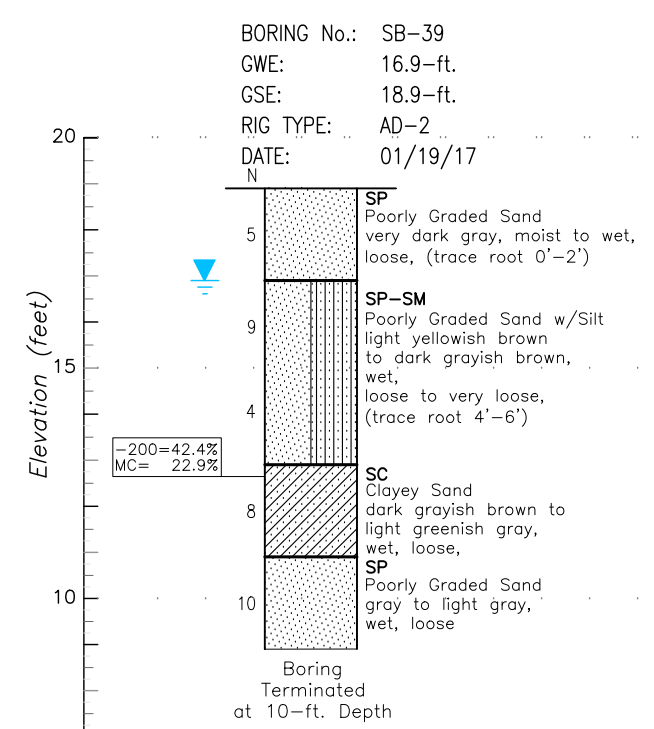
GNE GROUND WATER NOT ENCOUNTERED
GNM GROUND WATER NOT MEASURED
LL LIQUID LIMIT
PL PLASTIC LIMIT
PI PLASTICITY INDEX
-200 PERCENT PASSING NO. 200 U.S. STANDARD SIEVE (%)
MC NATURAL MOISTURE CONTENT (%)
WR WEIGHT OF ROD
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OC ORGANIC CONTENT
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GSE GROUND SURFACE ELEVATION
CASING USED
USCS SOIL CLASSIFICATION
LOSS OF CIRCULATION
NO RECOVERY

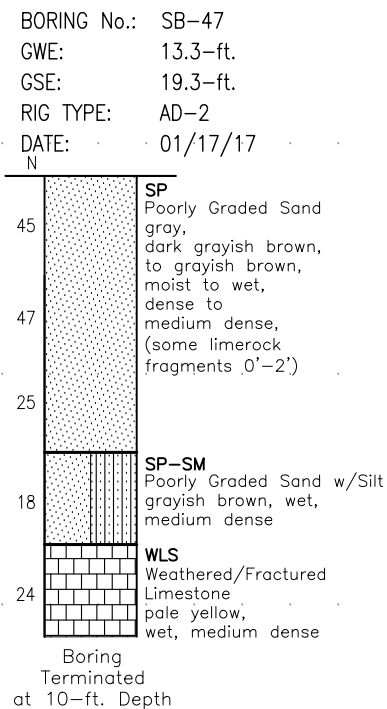
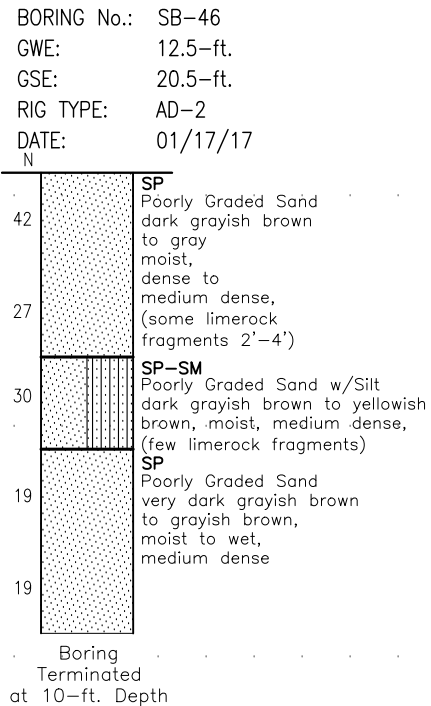
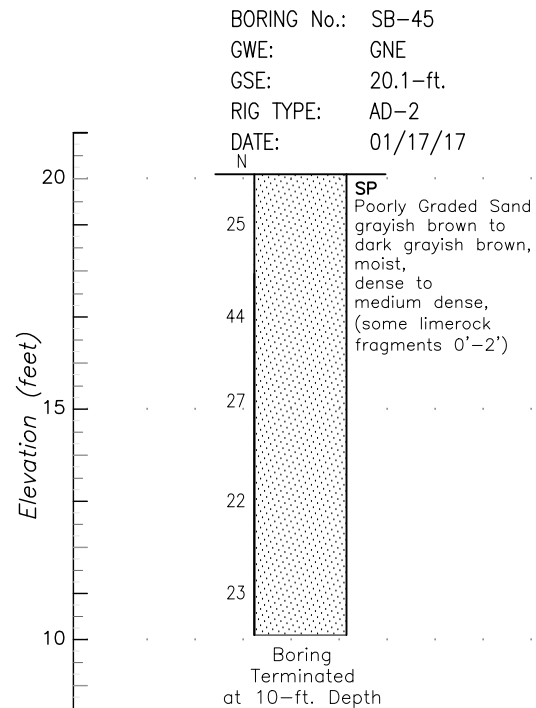
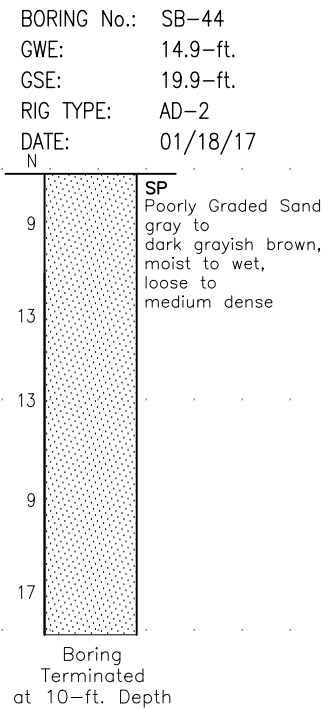
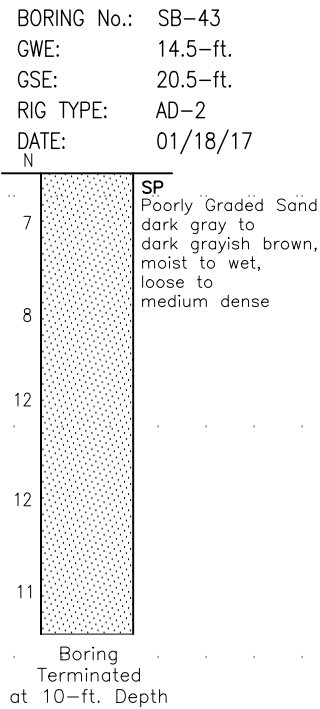
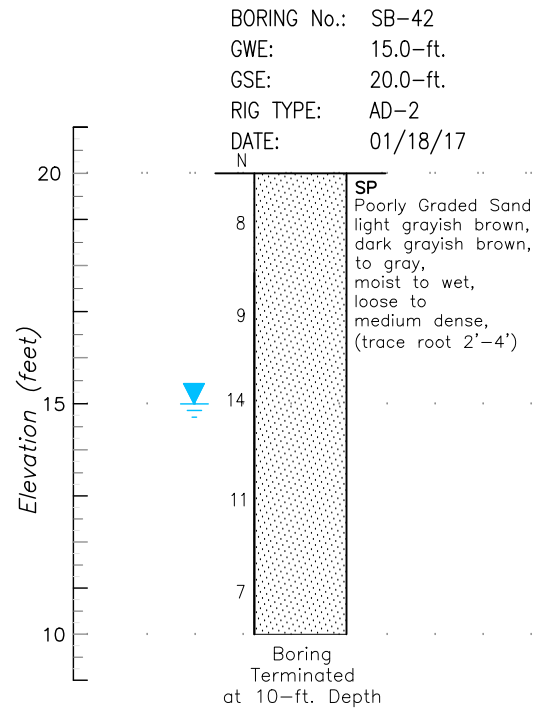
TYPE OF RIG: AD-2 (Manual Hammer) AND SIMCO 2800 (Automatic Hammer)

NOTES:

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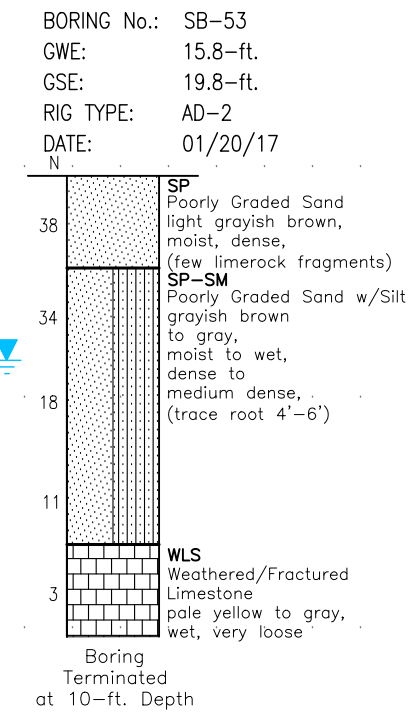
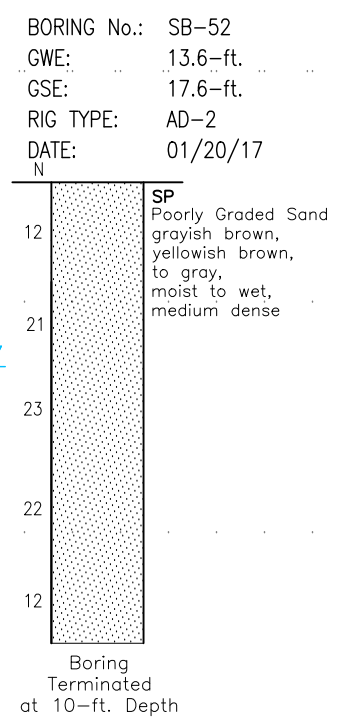
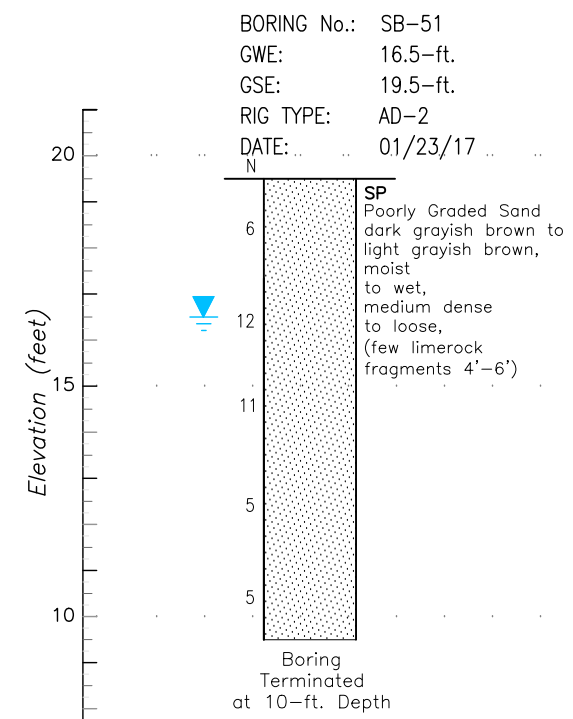
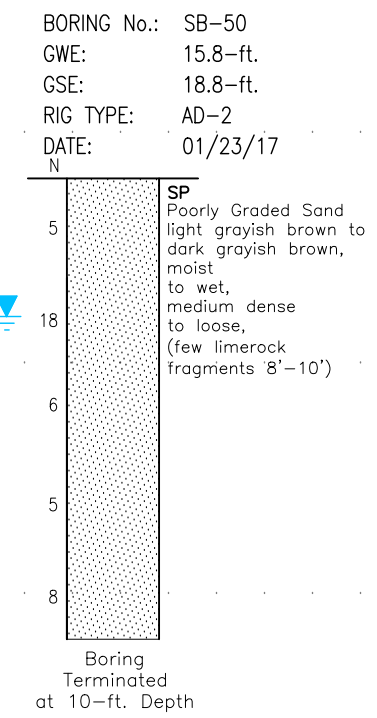
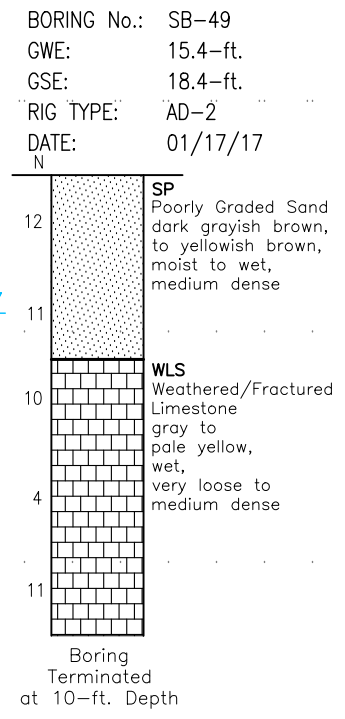
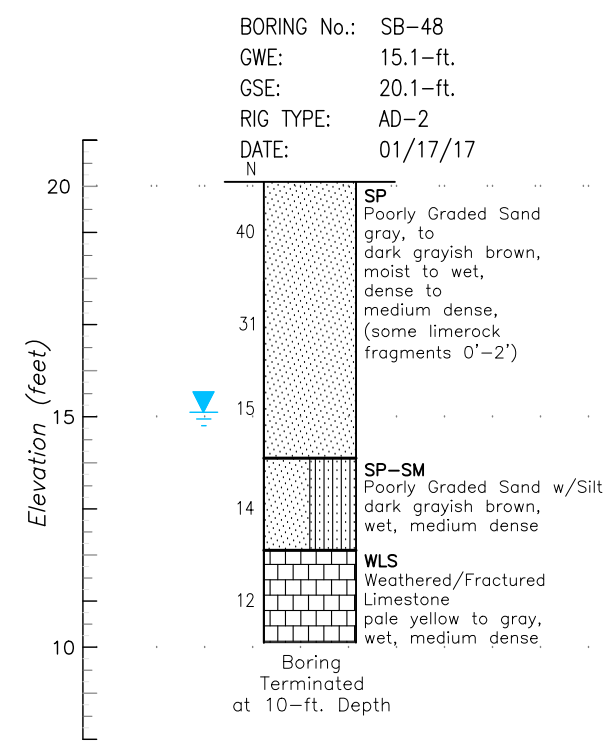
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17GY102.dwg (01-25-2017)

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				DESIGNED		Preliminary Geotechnical Exploration Services Report	Mr. Patrick Gonzalez, P.E.	Boring Log Profiles	3H
				DRAWN	JDS	Wild Blue Due Diligence	CalAtlantic Group Inc.	Standard Penetration Test Boring Logs	
				CHECKED	YPC	Off Corkscrew Road	Coral Springs, Florida		
				APPROVED	YPC	Estero, Lee County, Florida			PROJECT NO. 17GY102



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OC ORGANIC CONTENT
TOD TIME OF DRILLING
GSE GROUND SURFACE ELEVATION
CASING USED
USCS SOIL CLASSIFICATION
LOSS OF CIRCULATION
NO RECOVERY

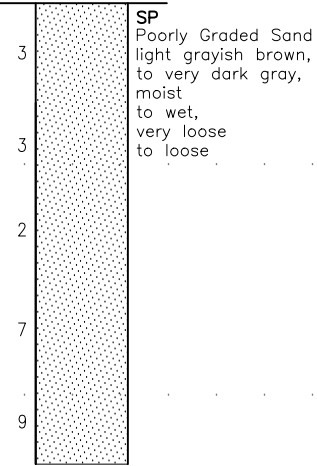
GWE or GROUND WATER ELEVATION (OBSERVED)
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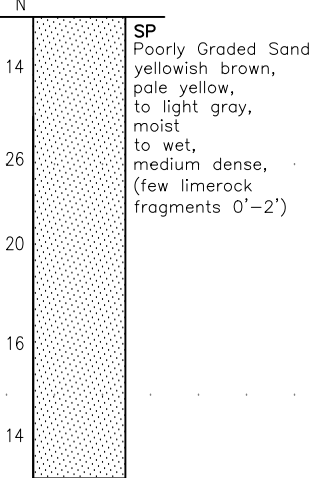
Elevation (feet)

BORING No.: SB-54
GWE: 16.5-ft.
GSE: 18.5-ft.
RIG TYPE: SIMCO 2800
DATE: 01/31/17
N



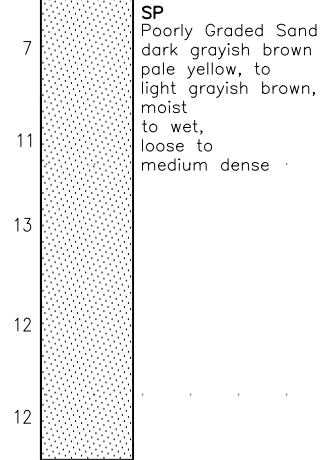
Boring Terminated at 10-ft. Depth

BORING No.: SB-55
GWE: 14.2-ft.
GSE: 18.2-ft.
RIG TYPE: SIMCO 2800
DATE: 01/17/17
N



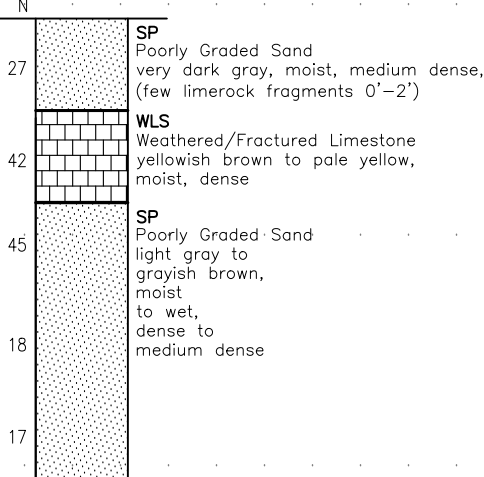
Boring Terminated at 10-ft. Depth

BORING No.: SB-56
GWE: 14.6-ft.
GSE: 18.6-ft.
RIG TYPE: SIMCO 2800
DATE: 01/17/17
N



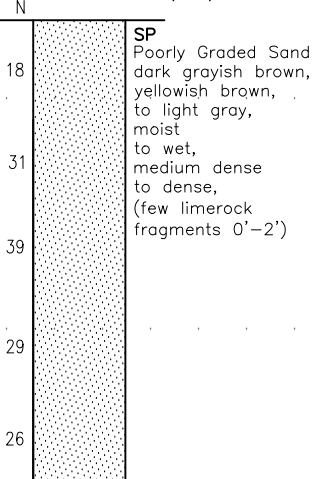
Boring Terminated at 10-ft. Depth

BORING No.: SB-58
GWE: 13.7-ft.
GSE: 19.7-ft.
RIG TYPE: AD-2
DATE: 01/16/17
N



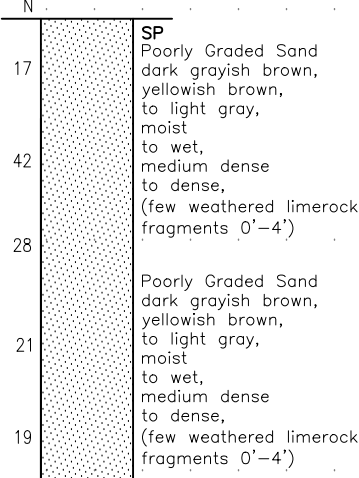
Boring Terminated at 10-ft. Depth

BORING No.: SB-59
GWE: 15.7-ft.
GSE: 21.7-ft.
RIG TYPE: AD-2
DATE: 01/16/17
N



Boring Terminated at 10-ft. Depth

BORING No.: SB-60
GWE: 13.8-ft.
GSE: 19.8-ft.
RIG TYPE: AD-2
DATE: 01/16/17
N



Boring Terminated at 10-ft. Depth

LEGEND

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17GY102.dwg (01-25-2017)

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	DRAWN		JIDS	01/17	
	CHECKED		YPC	01/17	
	APPROVED		YPC	01/17	



SEAL

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SHEET TITLE

Boring Log Profiles

Figure No.

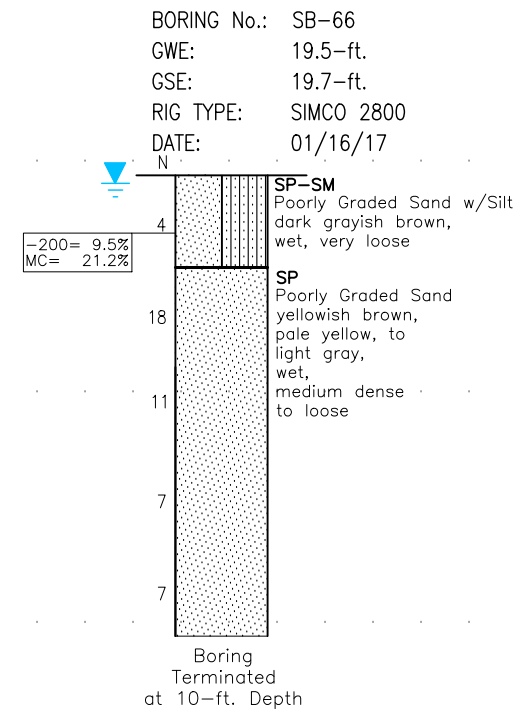
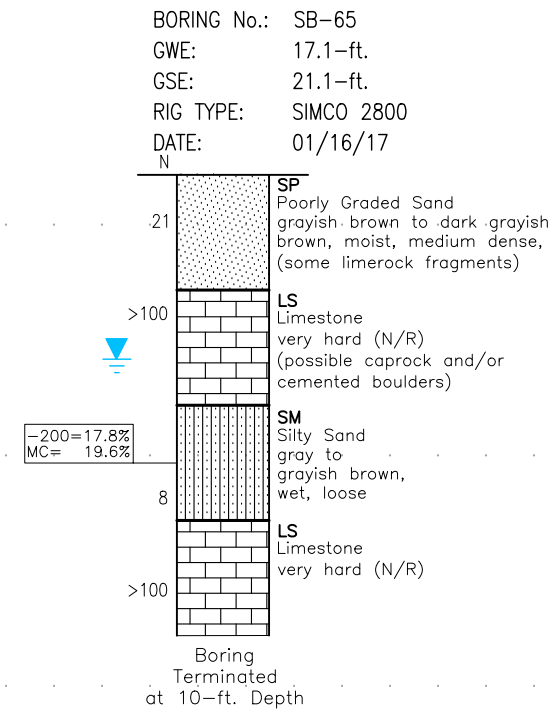
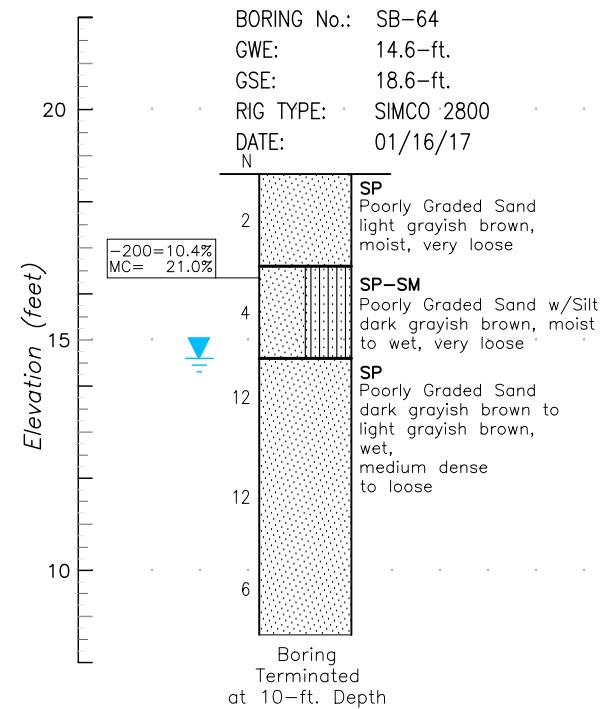
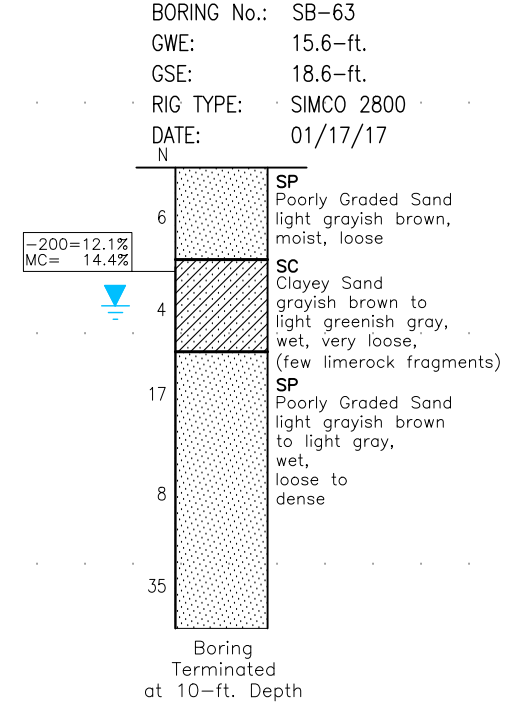
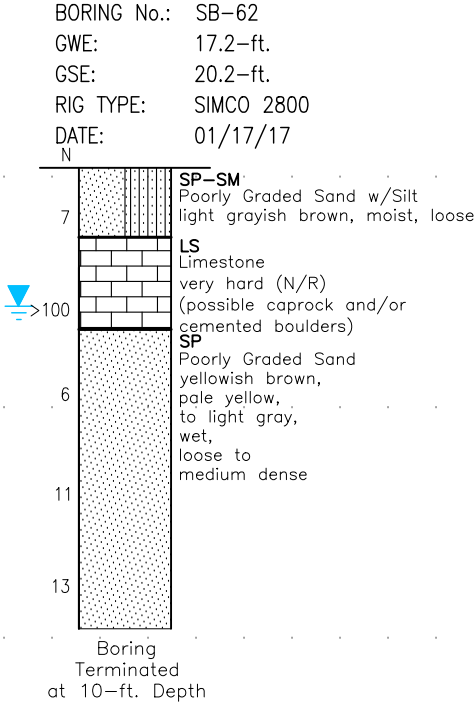
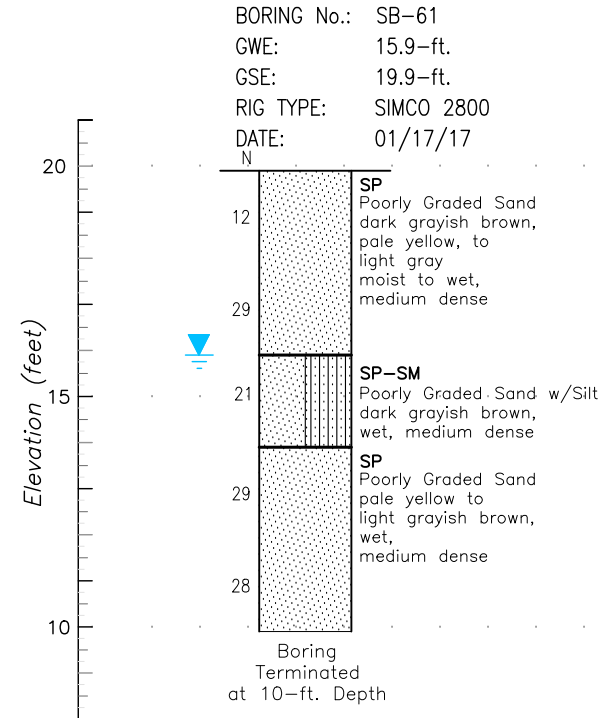
3J

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PROJECT NO.

17GY102



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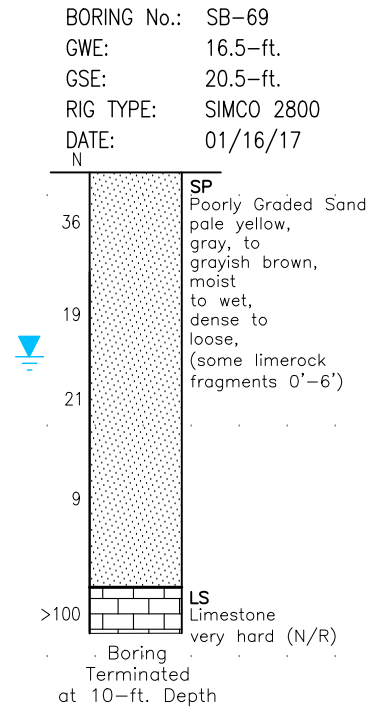
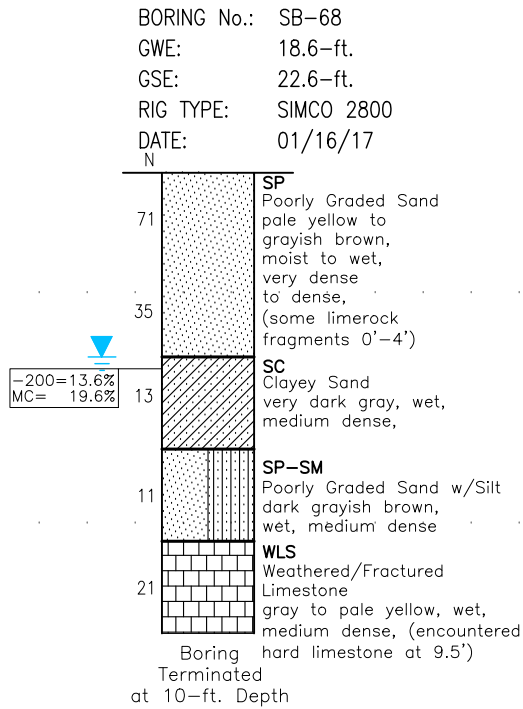
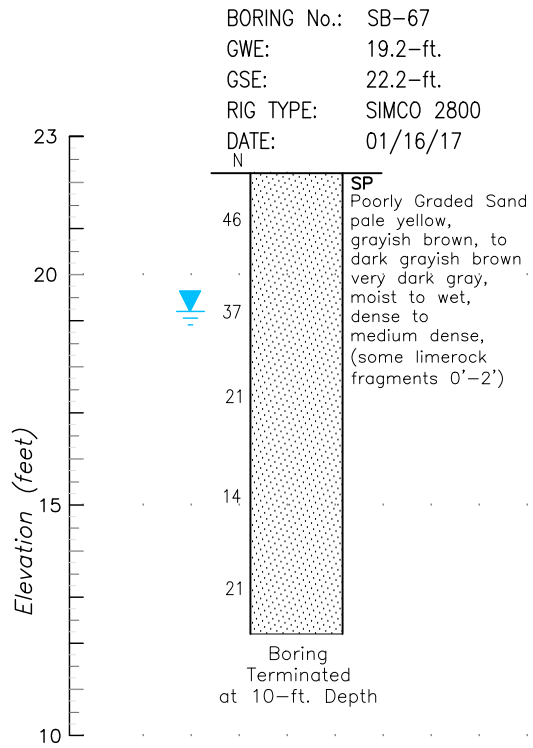
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>100 REFUSAL CRITERIA
PH POST HOLE DIGGER
OC ORGANIC CONTENT
TOD TIME OF DRILLING
GSE GROUND SURFACE ELEVATION
CASING USED
USCS SOIL CLASSIFICATION
LOSS OF CIRCULATION
NO RECOVERY

N

SP

N/R

GWE or GROUND WATER ELEVATION (OBSERVED)

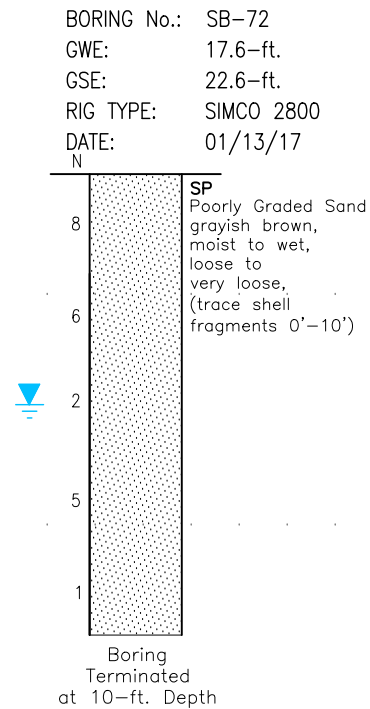
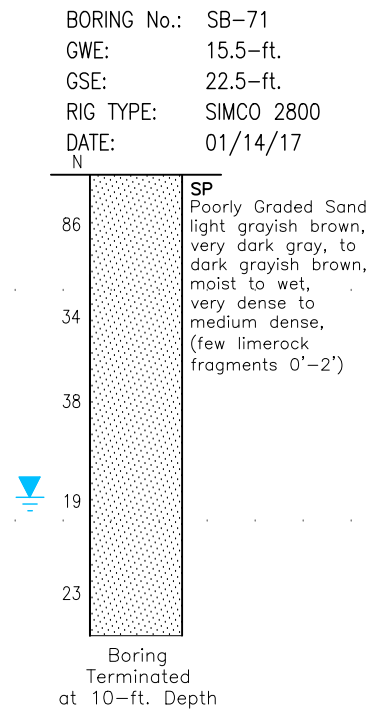
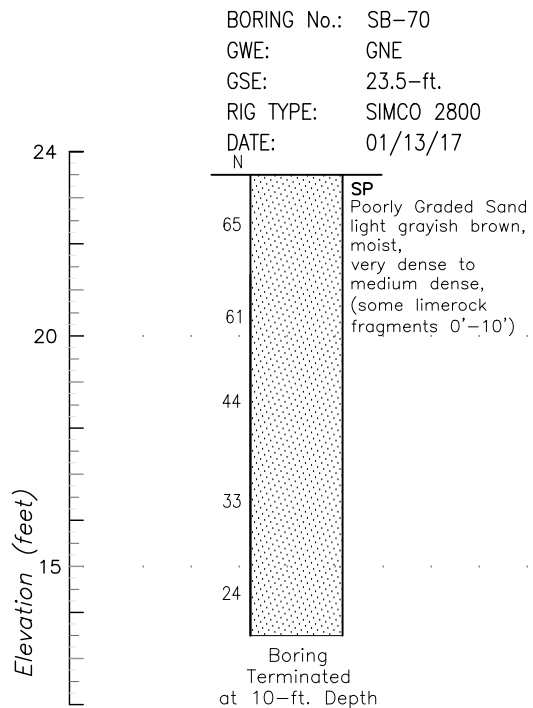
SHWL or SEASONAL HIGH WATER LEVEL (ESTIMATED)

TYPE OF RIG: AD-2 (Manual Hammer) AND SIMCO 2800 (Automatic Hammer)

NOTES:

1. THE BORINGS SHOWN REPRESENT SUBSURFACE CONDITIONS WITHIN THE BOREHOLE AT THE TIME OF DRILLING, NO WARRANTY AS TO THE SUBSURFACE CONDITIONS, STRATA DEPTH OR SOIL CONSISTENCY BETWEEN OR OUTSIDE THE BORING LOCATIONS IS EXPRESSED OR IMPLIED BY THIS DRAWING. DO NOT ASSUME THIS DATA IS A GUARANTEE OF THE DEPTH, EXTENT, OR CHARACTER OF THE MATERIAL PRESENT.

2. REFER TO PROJECT LAYOUT AND TEST LOCATION PLAN FOR TEST LOCATIONS.



17GY102.dwg (01-25-2017)

NO.	REVISIONS	DATE	BY	NAME	
	DESIGNED				
	DRAWN		JDS	01/17	
	CHECKED		YPC	01/17	
	APPROVED		YPC	01/17	

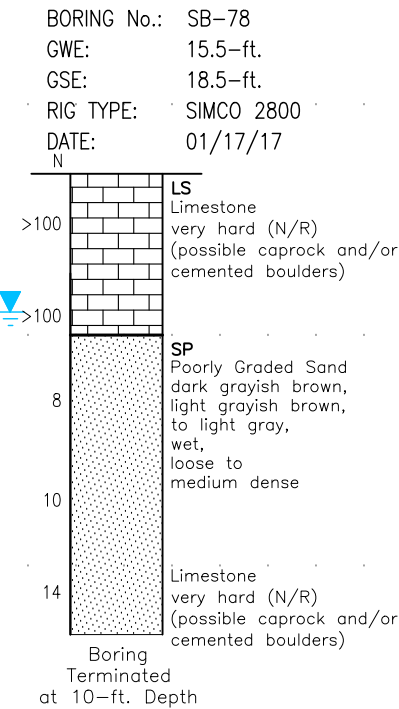
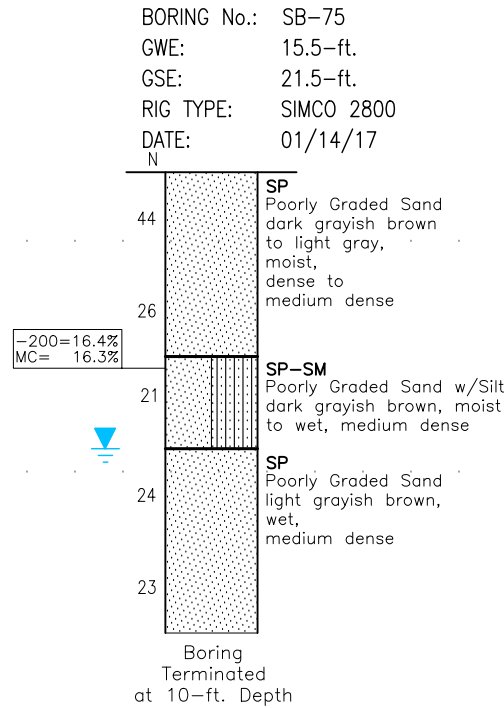
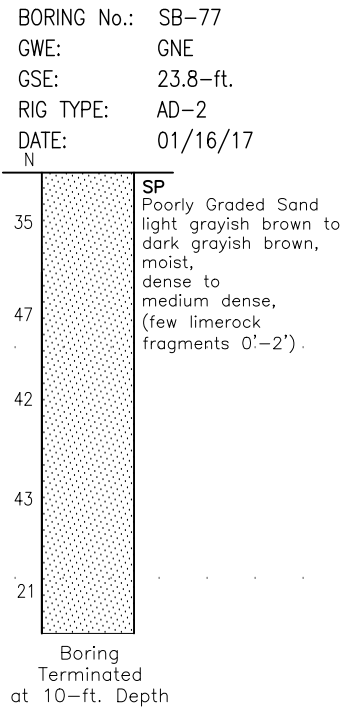
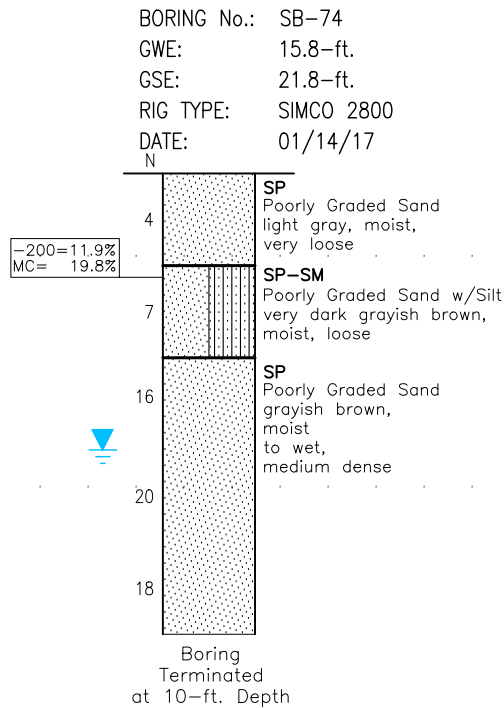
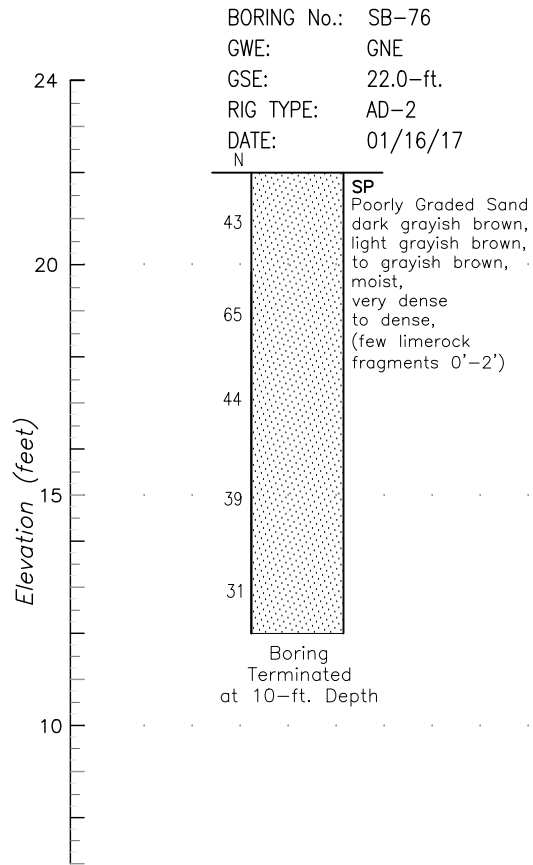
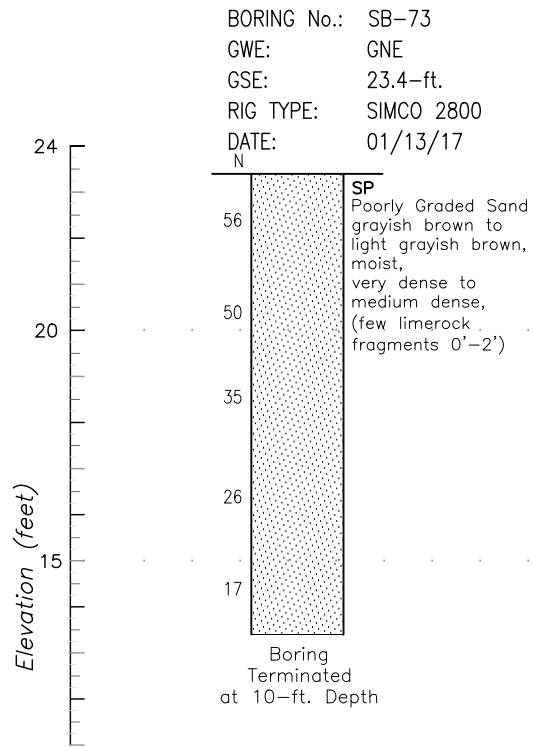


SEAL

PROJECT NAME
Preliminary Geotechnical Exploration Services Report
Wild Blue Due Diligence
Off Corkscrew Road
Estero, Lee County, Florida

CLIENT
Mr. Patrick Gonzalez, P.E.
CalAtlantic Group Inc.
Coral Springs, Florida

SHEET TITLE	Figure No.
Boring Log Profiles	3L
SOURCE	PROJECT NO.
Standard Penetration Test Boring Logs	17GY102



LEGEND					
SP SAND	ML SILT	MH ELASTIC SILT	SM SILTY SAND	CL LEAN CLAY	CH FAT CLAY
SC CLAYEY SAND	SH SHELL	PT MUCK/PEAT	LS HARD LIMESTONE	-- SHELLY-GRAVEL	-- CONCRETE
WLS WEATHERED OR SOFT LIMESTONE	-- SHELLY-SAND	AS ASPHALT	SP-SC	-- SHELLY-CLAY	LB LIMESTONE BASE
SP-SM	-- SOIL/CEMENT	-- DEBRIS	WD WOOD	OL ORGANIC SILTS	OH ORGANIC CLAY
GM SILTY-GRAVEL	GC GRAVELLY-CLAY	GP GRAVEL			

SOIL PROPERTIES	
GRANULAR SOILS (COHESIONLESS)	
DESCRIPTIVE TERM FOR RELATIVE DENSITY	SPT N-VALUE (blows per ft)
very loose	0 - 4
loose	5 - 10
medium dense	11 - 30
dense	31 - 50
very dense	over 50

FINE GRAINED SOILS (COHESIVE)	
DESCRIPTIVE TERM FOR CONSISTENCY	SPT N-VALUE (blows per ft)
very soft	0 - 2
soft	3 - 4
firm	5 - 8
stiff	9 - 15
very stiff	16 - 30
hard	31-50
very hard	over 50

MOISTURE DESCRIPTION	
dry	- absence of moisture, dusty, dry to the touch
moist	- damp, but no visible water
wet	- visible free water, usually soil is below water table

GNE	GROUND WATER NOT ENCOUNTERED
GNM	GROUND WATER NOT MEASURED
LL	LIQUID LIMIT
PL	PLASTIC LIMIT
PI	PLASTICITY INDEX
-200	PERCENT PASSING NO. 200 U.S. STANDARD SIEVE (%)
MC	NATURAL MOISTURE CONTENT (%)
WR	WEIGHT OF ROD
WOH	WEIGHT OF HAMMER
N	STANDARD PENETRATION RESISTANCE IN BLOWS PER 1ft (2ft SPOON - ASTM D-1586)
>100	REFUSAL CRITERIA
PH	POST HOLE DIGGER
OC	ORGANIC CONTENT
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SEAL

PROJECT NAME
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Wild Blue Due Diligence
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CLIENT
Mr. Patrick Gonzalez, P.E.
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SHEET TITLE		Figure No.
Boring Log Profiles		3M
SOURCE	PROJECT NO.	
Standard Penetration Test Boring Logs	17GY102	

Mr. Patrick Gonzalez, P.E.
CalAtlantic Group Inc.
Preliminary Geotechnical Exploration Service Report
Wild Blue Due Diligence
Off Corkscrew Road
Estero, Lee County, Florida
YPC Project No. 17GY102

YPC Consulting Group, P.L.
16 February 2017

APPENDIX A

STOCKPILE LAB RESULTS

Mr. Patrick Gonzalez, P.E.
 CalAtlantic Group Inc.
 Preliminary Geotechnical Exploration Service Report
 Wild Blue Due Diligence
 Off Corkscrew Road
 Estero, Lee County, Florida
 YPC Project No. 17GY102

YPC Consulting Group, P.L.
 16 February 2017

STOCKPILE SOIL LABORATORY TESTING SUMMARY														
STOCKPILE NUMBER	1							2A	2B	3	4		5	
SAMPLE NUMBER	2	3	5	6	8	11	12	1	1	1	1	2	1	2
Moisture Content (%)	2.7	4.1	4.8	6.5	7.4	2.2	4.9	11.9	3.4	3.0	4.5	3.7	4.6	5.6
% Passing #200 Sieve	6.4	18.6	8.9	10.8	50.3	9.7	16.1	60.3	23.1	11.7	11.4	8.5	16.3	6.8

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YPC Consulting Group, P.L.
16 February 2017

APPENDIX B

LIMEROCK BEARING RATIO TEST RESULTS



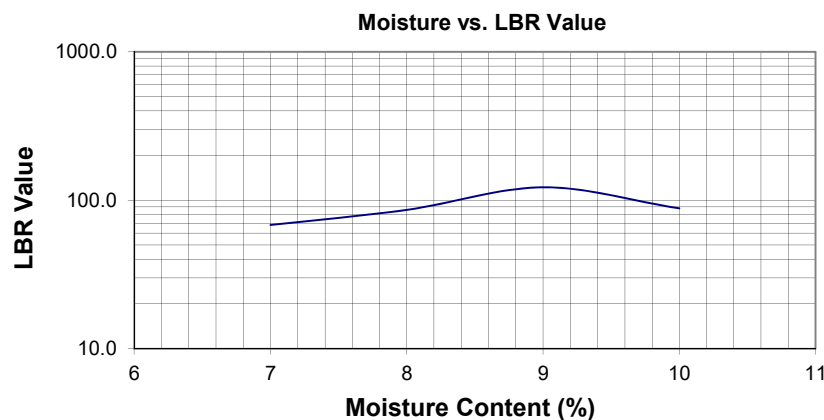
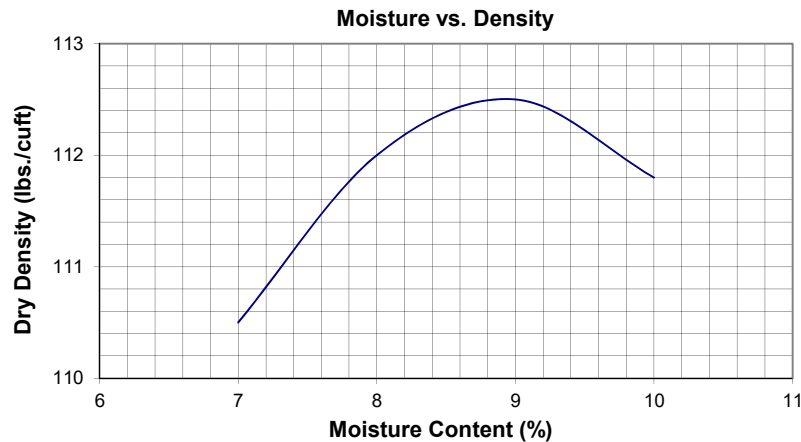
YPC Consulting Group, P.L.

5931 Country Lakes Drive

Fort Myers, Florida 33905

phone (239) 693-7700 fax (239) 690-0271

LIMEROCK BEARING RATIO TEST RESULTS



Material Description: tan FINE SAND w/ crushed rock

Test Results

Optimum Moisture (%):	10.5
Maximum Dry Density (pcf):	114.2
Maximum LBR Value:	54
Passing #200 Sieve (%):	2.9
Total Carbonates (%):	NA
Liquid Limit:	NP
Plastic Limit:	NP

PROJECT NAME:	WildBlue	PROJECT NO.:	17GY102
CLIENT:	Cal Atlantic Homes	DATE SAMPLED:	1/26/2017
		DATE TESTED:	2/1/2017
		TEST METHOD:	FM-515
SAMPLE No.:	1L	SAMPLED BY:	Ross/Corey
LOCATION:	East end of Stockpile 8A @ Elev. 30.00	PERFORMED BY:	Corey Patterson

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ralph@moretimetobid.com
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Hiram F. Murati, P.E.
Florida Prof. Engineer No. 44599



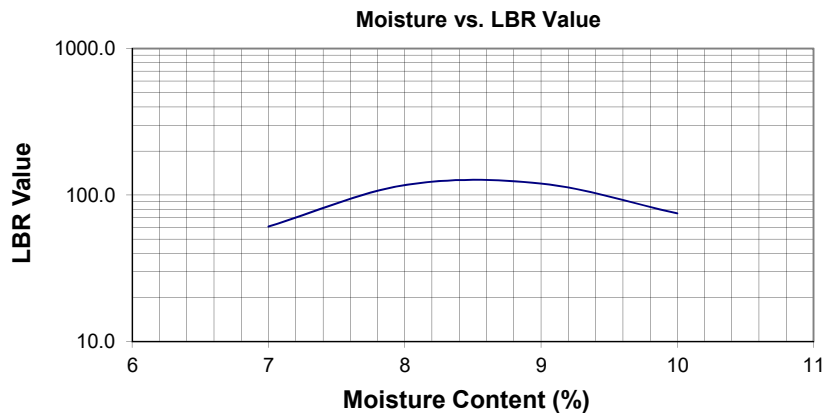
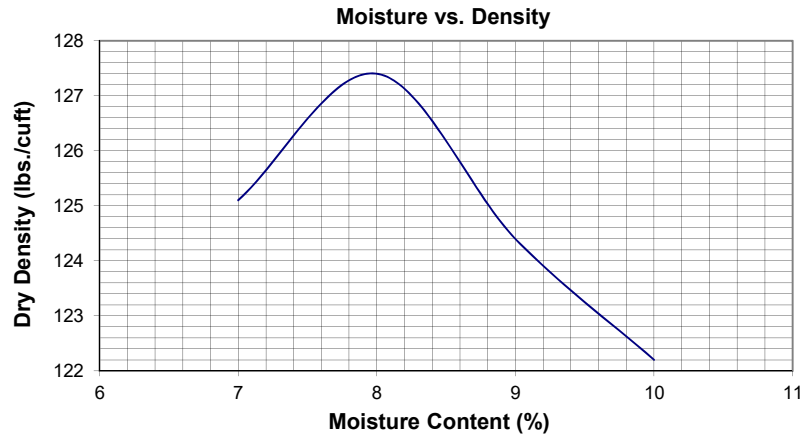
YPC Consulting Group, P.L.

5931 Country Lakes Drive

Fort Myers, Florida 33905

phone (239) 693-7700 fax (239) 690-0271

LIMEROCK BEARING RATIO TEST RESULTS



Material Description: Existing Limerock

Test Results

Optimum Moisture (%):	8.0
Maximum Dry Density (pcf):	127.5
Maximum LBR Value:	125
Passing #200 Sieve (%):	10.4
Total Carbonates (%):	NA
Liquid Limit:	NP
Plastic Limit:	NP

PROJECT NAME:	WildBlue	PROJECT NO.:	17GY102
CLIENT:	Cal Atlantic Homes	DATE SAMPLED:	1/26/2017
		DATE TESTED:	2/1/2017
		TEST METHOD:	FM-515
SAMPLE No.:	2L	SAMPLED BY:	Ross/Corey
	Ex. Haul Rd. 2 Intersections of Main Spine Rd.		
LOCATION:	& Peninsula on W Side	PERFORMED BY:	Corey Patterson

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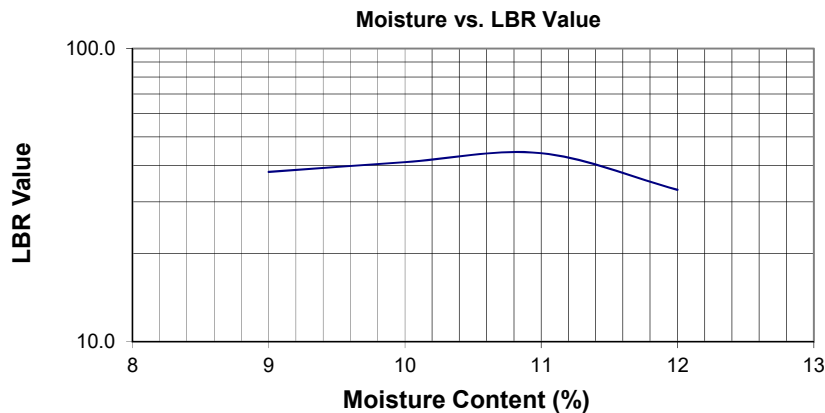
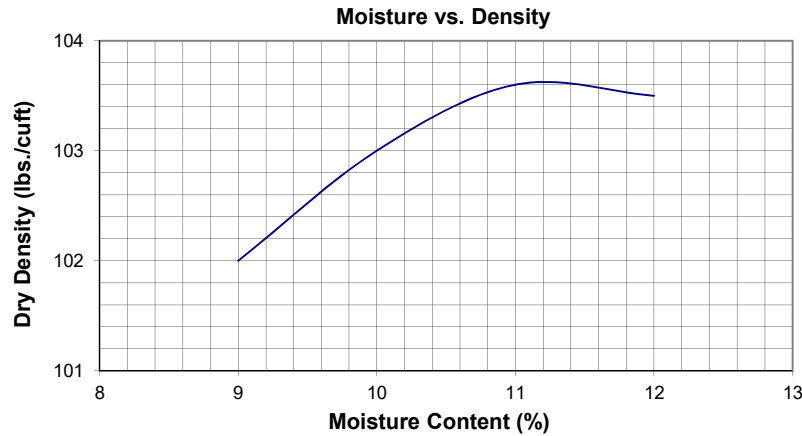
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Fort Myers, Florida 33905

phone (239) 693-7700 fax (239) 690-0271

LIMEROCK BEARING RATIO TEST RESULTS



Material Description: Tan FINE SAND w/ crushed rock

Test Results

Optimum Moisture (%):	11.2
Maximum Dry Density (pcf):	103.7
Maximum LBR Value:	45
Passing #200 Sieve (%):	2.5
Total Carbonates (%):	NA
Liquid Limit:	NP
Plastic Limit:	NP

PROJECT NAME:	WildBlue	PROJECT NO.:	17GY102
CLIENT:	Cal Atlantic Homes	DATE SAMPLED:	1/26/2017
		DATE TESTED:	2/1/2017
		TEST METHOD:	FM-515
SAMPLE No.:	3L	SAMPLED BY:	Ross/Corey
LOCATION:	North End of New Main Entrance Roadway	PERFORMED BY:	Corey Patterson

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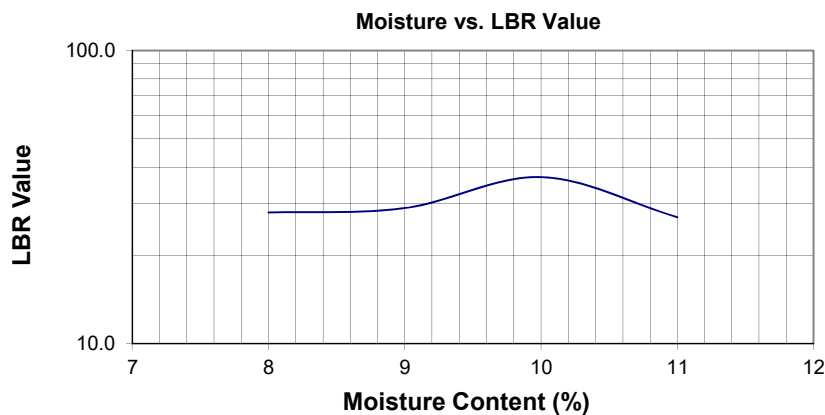
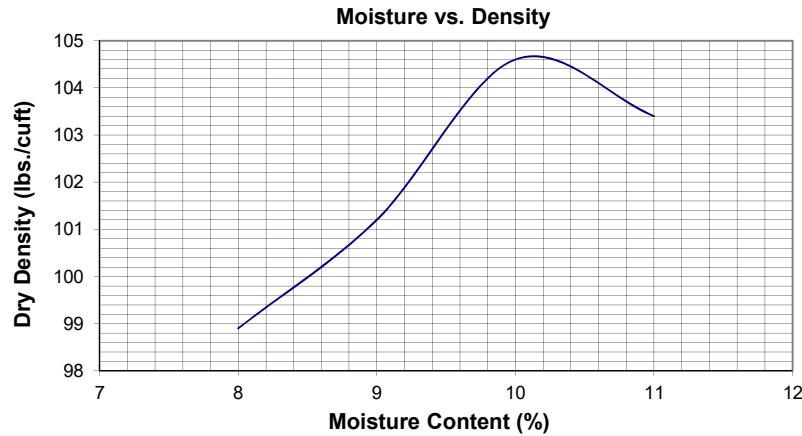
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LIMEROCK BEARING RATIO TEST RESULTS



Material Description: Tan FINE SAND w/ crushed rock

Test Results

Optimum Moisture (%):	10.1
Maximum Dry Density (pcf):	104.6
Maximum LBR Value:	37
Passing #200 Sieve (%):	44.9
Total Carbonates (%):	NA
Liquid Limit:	NP
Plastic Limit:	NP

PROJECT NAME:	WildBlue	PROJECT NO.:	17GY102
CLIENT:	Cal Atlantic Homes	DATE SAMPLED:	1/26/2017
		DATE TESTED:	2/1/2017
		TEST METHOD:	FM-515
SAMPLE No.:	4L	SAMPLED BY:	Ross/Corey
LOCATION:	West side of Lake #2 @ Center of Lake	PERFORMED BY:	Corey Patterson

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