Contract Administration Department



306 East Jackson Street, 4N Tampa, FL 33602

> Office (813) 274-8116 Fax: (813) 274-7368

ADDENDUM 3

DATE: April 7, 2023

Contract: 22-C-00001; Tampa Multimodal Network and Safety Improvements Project (West River

District BUILD)

Item 1 – Schedule update; The Committee meeting originally scheduled for April 10, 2023 has been moved to April 13, 2023. Since only two submissions were received, the meeting will simply certify/"short-list" the two firms.

Item 2 – Attached as a Reference Document is a copy of the Geotechnical Data Report from the Tampa Hillsborough Expressway Authority.

All parts of the RFQ & RFP not in conflict with this Addendum shall remain in full force and effect.

Questions are to be e-mailed to ContractAdministration@tampagov.net.

zim greiner

Jim Greiner, P.E., Contract Management Supervisor

July 18, 2022

HNTB Corporation One Tampa City Center 201 North Franklin Street, Suite 1200 Tampa, Florida 33602

Attn: Mr. James E. Drapp, P.E.

RE: Geotechnical Data Report

Tampa Hillsborough Expressway Authority South Selmon Capacity Project Design-Build From Himes Avenue to Whiting Street Hillsborough County, Florida

THEA Project No. HI-0012

Tierra Project No. 6511-21-169-011

Mr. Drapp:

Tierra has completed geotechnical data collection for the above referenced project. The results of our field exploration program and laboratory testing performed are presented herein.

Tierra appreciates the opportunity to be of service to HNTB and THEA on this project. If you have any questions or comments regarding this report, please contact our office at your earliest convenience.

Sincerely,

TIERRA, INC.

Dylan A. Nelson, E.I.

Geotechnical Engineering Intern

Tyle A. Mila

Kevin H. Scott, P.E.

Senior Geotechnical Engineer Florida License No. 65514

Larry P. Moore, P.E.

Principal Geotechnical Engineer

Lower Work

Florida License No. 47673

Table of Contents Page 1 of 3

1.0 1.1 1.2	PROJECT INFORMATION Project Authorization Project Description	1
2.0	PURPOSE AND SCOPE OF SERVICES	. 1
3.0 3.1 3.2	REVIEW OF PUBLISHED DATA Review of Potentiometric Surface Information Review of Existing Geotechnical Data	2
4.0 4.1 4.2	SUBSURFACE EXPLORATION Boring Location Plan and Utility Clearance Bridge, Wall and Roadway Borings	3
5.0 5.1 5.2	Ceneral	4
6.0 6.1 6.2	RESULTS OF SUBSURFACE EXPLORATION	5
7.0	ENVIRONMENTAL CLASSIFICATION	6
8.0	REPORT LIMITATIONS	. 7

APPENDIX A

Report of Core Borings Sheets – SR 618 over Himes Ave. Existing Geotechnical Data – Borings Performed by Others

APPENDIX B

Report of Core Borings Sheets – SR 618 over Euclid Ave. Existing Geotechnical Data – Borings Performed by Others

APPENDIX C

Report of Core Borings Sheets – SR 618 over El Prado Blvd. Existing Geotechnical Data – Borings Performed by Others

APPENDIX D

Report of Core Borings Sheets – SR 618 over MacDill Ave./Bay to Bay Blvd. Existing Geotechnical Data – Borings Performed by Others

Table of Contents Page 2 of 3

APPENDIX E

Report of Core Borings Sheets – SR 618 over Mississippi Ave. Existing Geotechnical Data – Borings Performed by Others

APPENDIX F

Report of Core Borings Sheets – SR 618 over Howard Ave./Watrous Ave. Existing Geotechnical Data – Borings Performed by Others

APPENDIX G

Report of Core Borings Sheets – SR 618 over Morrison Ave. Existing Geotechnical Data – Borings Performed by Others

APPENDIX H

Report of Core Borings Sheets – SR 618 over Swann Ave. Existing Geotechnical Data – Borings Performed by Others

APPENDIX I

Report of Core Borings Sheets – SR 618 over Platt St. Existing Geotechnical Data – Borings Performed by Others

APPENDIX J

Report of Core Borings Sheets – SR 618 over Willow Ave. Existing Geotechnical Data – Borings Performed by Others

APPENDIX K

Report of Core Borings Sheets – SR 618 over South Boulevard Existing Geotechnical Data – Borings Performed by Others

APPENDIX L

Report of Core Borings Sheets – SR 618 over Hyde Park Ave./Plant Ave. Existing Geotechnical Data – Borings Performed by Others

APPENDIX M

Report of Core Borings Sheets – SR 618 over Downtown Viaduct Existing Geotechnical Data – Borings Performed by Others

APPENDIX N

Report of Core Borings Sheets – Retaining Walls

Table of Contents Page 3 of 3

APPENDIX O

Roadway Boring Location Plan Roadway Soil Profiles

APPENDIX P

Summary of Roadway Seasonal High Groundwater Table Estimates

APPENDIX Q

Summary of Laboratory Testing Results for Environmental Classification Summary of Laboratory Rock Core Strength Testing

APPENDIX R

Rock Core Photographs

Geotechnical Data Report
Tampa Hillsborough Expressway Authority
South Selmon Capacity Project Design-Build
From Himes Avenue to Whiting Street
Hillsborough County, Florida
THEA Project No. HI-0012
Tierra Project No. 6511-21-169-011
Page 1 of 7

1.0 PROJECT INFORMATION

1.1 Project Authorization

Authorization to proceed with this project was issued by HNTB in accordance with the Subconsultant Agreement.

1.2 Project Description

The project consists of preparing conceptual plans that will support a Design-Build RFP for Selmon Expressway (SR 618) improvements from Himes Avenue to Whiting Street in Hillsborough County, Florida. Based on our understanding, the project improvements consist of approximately 26 bridge structures, retaining wall structures, roadway improvements and drainage improvements.

The objective of this study was to obtain information concerning the existing subsurface conditions at the bridge locations, retaining wall locations and requested roadway locations within the project limits. This report will be included in the Design-Build RFP and will be provided to the short-listed design-build teams as a reference document.

2.0 PURPOSE AND SCOPE OF SERVICES

The geotechnical study was performed to obtain information on the existing subsurface conditions at the proposed bridge locations, retaining wall locations and requested roadway locations for inclusion in the Design-Build RFP. The following services were provided:

- 1. Reviewed published potentiometric information obtained from the "Potentiometric Surface of the Upper Floridan Aquifer, West-Central Florida" maps published by the United States Geological Survey (USGS).
- 2. Reviewed existing geotechnical data provided by the Tampa Hillsborough Expressway Authority (THEA).
- 3. Conducted a visual reconnaissance of the project site and coordinated utility clearance via Sunshine State One Call.
- 4. Performed a geotechnical field study for the proposed bridge and wall improvements consisting of Standard Penetration Test (SPT) borings.
- 5. Performed a geotechnical field study at requested roadway improvement locations consisting of hand auger borings.
- 6. Measured groundwater depths at the boring locations. Estimated Seasonal High Groundwater (SHGWT) levels at the hand auger boring locations.

Geotechnical Data Report
Tampa Hillsborough Expressway Authority
South Selmon Capacity Project Design-Build
From Himes Avenue to Whiting Street
Hillsborough County, Florida
THEA Project No. HI-0012
Tierra Project No. 6511-21-169-011
Page 2 of 7

- 7. Performed rock coring at selected SPT boring locations. Recorded the core depth, time of coring, percent recovery (REC) and rock quality designation (RQD) for each core sample.
- 8. Visually examined and classified soil and rock samples recovered using the Unified Soil Classification System (USCS) for the SPT borings and American Association of State Highway and Transportation Officials (AASHTO) soil classification system or the hand auger borings.
- Conducted laboratory testing on selected representative samples to confirm visual soil classifications, determine rock characteristics and evaluate the corrosive nature of the soil and water encountered.
- 10. Coordinated with the project surveyor to obtain survey data (locations and elevations) for the borings performed (excluding the bridge SPT borings performed within the Hillsborough River).
- 11. Prepared this engineering data report, which summarizes the course of study pursued, the field and laboratory data generated, and the subsurface conditions encountered in the vicinity of the proposed improvements.

3.0 REVIEW OF PUBLISHED DATA

3.1 Review of Potentiometric Surface Information

Based on a review of the "Potentiometric Surface of the Upper Floridan Aquifer, West-Central Florida" maps published by the USGS, the potentiometric surface elevation at the bridge sites is reported up to approximately +15 feet, NGVD 29.

Artesian flow conditions were encountered during field explorations at borings B-HR-1, B-HR-2 and B-HR-3 performed within the Hillsborough River for the SR 618 over Downtown Viaduct Bridge. The artesian flow conditions within these borings were encountered at elevations ranging from approximately -69 to -90 feet, NAVD 88. The borings encountered artesian head elevations ranging from approximately +4 to +6 feet, NAVD 88. The approximate elevations of the artesian flow conditions encountered during the field explorations and the water head measurements are presented on the **Report of Core Borings Sheets** in **Appendix M**.

3.2 Review of Existing Geotechnical Data

Tierra reviewed existing SPT boring data provided by THEA and determined the applicability of the existing data to the proposed bridge structures. The existing soil boring data provided by THEA is provided in **Appendices A** through **M** of this report.

Geotechnical Data Report
Tampa Hillsborough Expressway Authority
South Selmon Capacity Project Design-Build
From Himes Avenue to Whiting Street
Hillsborough County, Florida
THEA Project No. HI-0012
Tierra Project No. 6511-21-169-011
Page 3 of 7

4.0 SUBSURFACE EXPLORATION

4.1 Boring Location Plan and Utility Clearance

Prior to commencing our subsurface explorations, a boring location plan was generated based on a review of current project design files, general guidance provided in the FDOT "Soils and Foundation Handbook", and our engineering judgment. The borings were located by Tierra in the field using hand-held, non-survey grade Global Positioning System (GPS) equipment. Following completion of the borings, the borings were survey located by the project surveyor (excluding the bridge SPT borings performed within the Hillsborough River). The project surveyor provided State Plane coordinates and elevations of the boring locations. The boring locations are depicted on the **Report of Core Borings** sheets presented in **Appendices A** through **N** and **Boring Location Plan** and **Roadway Soil Profiles** sheets in **Appendix O**.

Utility clearances were coordinated by Tierra through Sunshine State One Call and updated as required prior to performing the soil borings in order to reduce the potential for damage to any underground utilities during the boring process.

4.2 Bridge, Wall and Roadway Borings

Tierra performed over seventy (70) SPT borings at the bridge locations to depths ranging from approximately 60 to 120 feet below existing grades/existing water surface, over sixty (60) SPT borings at the wall locations to depths ranging from approximately 20 to 45 feet and over twenty (20) hand auger borings to depths ranging from approximately 2 to 6 feet below existing grades along selected portions of the roadway alignment. The SPT borings were performed using a mechanical drill rig using Bentonite mud drilling procedures. The soil sampling was performed in general accordance with the American Society for Testing and Materials (ASTM) test designation D-1586. The initial 2 to 6 feet of most SPT borings were manually advanced with a hand auger to verify utility clearances. Bridge SPT boring resistance N-values were then taken continuously to a depth of 17½ feet and on intervals of 2½ feet thereafter to the boring termination depths. Wall SPT boring resistance N-values were then taken continuously to a depth of 10 feet and on intervals of 5 feet thereafter to the boring termination depths. As each soil type was revealed, representative samples were placed in air-tight containers and returned to our office for confirmation of the field classification by a geotechnical engineer.

The hand auger borings were performed by manually twisting and advancing a bucket auger into the ground, typically in 6-inch increments. As each soil type was revealed, representative samples were placed in air-tight containers and returned to our office for confirmation of the field classification by a geotechnical engineer. The results of the bridge and wall SPT borings performed for this geotechnical study are presented on the **Report of Core Borings** sheets in **Appendices A** through **N**. The results of the roadway hand auger borings performed are presented on the **Boring Location Plan** and **Roadway Soil Profiles** sheets in **Appendix O**.

Geotechnical Data Report
Tampa Hillsborough Expressway Authority
South Selmon Capacity Project Design-Build
From Himes Avenue to Whiting Street
Hillsborough County, Florida
THEA Project No. HI-0012
Tierra Project No. 6511-21-169-011
Page 4 of 7

4.3 Rock Coring

Rock coring was performed at selected bridge SPT boring locations to obtain core samples for quality evaluation of the limestone encountered in the vicinity of the bridge sites. The coring operations were performed in general accordance with ASTM test designation D-2113. Core depths and coring duration times were recorded for each rock core run. The recovered rock cores were transported to Tierra's laboratory and removed from the inner barrel for documentation, classification and testing. The rock core information is presented on the **Report of Core Borings** sheets in **Appendices A** through **N**. **Rock Core Photographs** are provided in **Appendix R**.

5.0 LABORATORY TESTING

5.1 General

Representative soil samples collected from the borings performed along the project alignment were classified and stratified in general accordance with the USCS or AASHTO soil classification system. Our classification was based on visual observations, using the results from the laboratory testing as confirmation.

5.2 Test Designation

The following list summarizes the laboratory tests performed by Tierra and the respective test methods utilized.

- <u>Grain-Size Analyses/Fines Content</u> The grain-size analyses/fines content tests were conducted in general accordance with the AASHTO test designation T-088 (ASTM test designation D-422).
- Atterberg Limits The liquid limit and the plastic limit tests ("Atterberg Limits") were conducted in general accordance with the AASHTO test designations T-089 and T-090, respectively (ASTM test designation D-4318).
- <u>Natural Moisture Content</u> The moisture content tests were conducted in general accordance with the AASHTO test designation T-265 (ASTM test designation D-2216).
- <u>Organic Content</u> The organic content tests were performed in general accordance with AASHTO T-267.
- <u>Environmental Corrosion</u> Environmental corrosion tests were conducted in general accordance with the FDOT test designations FM 5-550, FM 5-551, FM 5-552 and FM 5-553.
- <u>Splitting Tensile</u> The splitting tensile tests were conducted in general accordance with the ASTM test designation D-3967.

Geotechnical Data Report
Tampa Hillsborough Expressway Authority
South Selmon Capacity Project Design-Build
From Himes Avenue to Whiting Street
Hillsborough County, Florida
THEA Project No. HI-0012
Tierra Project No. 6511-21-169-011
Page 5 of 7

• <u>Unconfined Compression</u> - The unconfined compression tests were conducted in general accordance with the ASTM test designation D2938.

Summaries of the laboratory test results are provided on the Report of Core Borings sheets in Appendices A through N and in the Summary of Laboratory Testing Results for Environmental Classification and Summary of Laboratory Rock Core Strength Testing tables in Appendix Q.

6.0 RESULTS OF SUBSURFACE EXPLORATION

6.1 General Soil Conditions

The soil borings generally encountered sandy soils underlain by clayey soils underlain by calcareous clay to weathered limestone to the boring termination depths. The soil types encountered during the subsurface exploration have been assigned a soil description followed by a USCS or AASHTO classification as shown on the **Report of Core Borings** sheets in **Appendices A** through **N** and **Roadway Soil Profiles** sheets in **Appendix O**.

A geotechnical engineer bases soil stratification on a visual review of the recovered samples, laboratory testing and interpretation of the field boring logs. The boring stratification lines represent the approximate boundaries between soil types of significantly different engineering properties; however, the actual transition may be gradual. In some cases, small variations in properties not considered pertinent to our engineering evaluation may have been abbreviated or omitted for clarity. The boring profiles represent the conditions at the particular boring location and variations did occur and should be expected between the borings.

6.2 Groundwater Levels and Seasonal High Groundwater Estimates

The groundwater table, when encountered, was measured at the boring locations during our field exploration. The depths to the encountered groundwater table are presented on the **Report of Core Borings** sheets in **Appendices A** through **N** and **Roadway Soil Profiles** sheets in **Appendix O**. Within some SPT borings, the groundwater table was not apparent prior to the introduction of drilling fluid, which generally occurred at a depth of approximately 10 feet below existing grades. Therefore, Groundwater Not Apparent (GNA) is depicted adjacent to these soil profiles on the **Report of Core Borings** sheets. In addition, the groundwater table was not encountered prior to the boring termination depth within hand auger borings SH-144RT and SH-174LT. As a result, GNE (Groundwater Not Encountered) is shown adjacent to these soil profiles.

The Seasonal High Groundwater Table (SHGWT) level was estimated at the hand auger borings performed along requested areas of the project alignment. The SHGWT levels at the hand auger boring locations were estimated based on a review of the soil samples recovered, groundwater levels observed in the borings, USDA Soil Survey information and the surrounding topography. The results of the estimated SHGWT levels at these

Geotechnical Data Report
Tampa Hillsborough Expressway Authority
South Selmon Capacity Project Design-Build
From Himes Avenue to Whiting Street
Hillsborough County, Florida
THEA Project No. HI-0012
Tierra Project No. 6511-21-169-011
Page 6 of 7

boring locations are presented on the Roadway Soil Profiles sheets in Appendix O and summarized on the Summary of Roadway Seasonal High Groundwater Table Estimates in Appendix P.

When reviewing the provided groundwater information it should be noted that groundwater levels tend to fluctuate during periods of prolonged drought and extended rainfall and may be affected by man-made influences. The estimated USDA seasonal high groundwater levels are based upon conditions that existed at the project site when the information was published. The USDA estimates do not account for conditions following the altering of the area due to development/construction, if any. In addition, a seasonal effect will also occur in which higher groundwater levels are normally recorded during the rainy seasons.

7.0 ENVIRONMENTAL CLASSIFICATION

Laboratory tests were performed on soil samples obtained from the bridge SPT borings and water samples obtained from the Hillsborough River and Tampa Bay to determine the superstructure and substructure environmental classification. The recommended environmental classifications for each bridge are included on the Report of Core Borings sheets in Appendices A through M and in the Summary of Laboratory Testing Results for Environmental Classification table in Appendix Q.

It should be noted that the recommended environmental classifications were determined in accordance with the laboratory test results and guidelines provided the FDOT Structures Design Guidelines (SDG). Bridge structures that are proposed within 2,500 feet of Tampa Bay or the Hillsborough River were classified as Extremely Aggressive due to the chloride content of the water samples obtained from Tampa Bay and the Hillsborough River.

Geotechnical Data Report
Tampa Hillsborough Expressway Authority
South Selmon Capacity Project Design-Build
From Himes Avenue to Whiting Street
Hillsborough County, Florida
THEA Project No. HI-0012
Tierra Project No. 6511-21-169-011
Page 7 of 7

8.0 REPORT LIMITATIONS

Our services have been performed and our findings obtained in accordance with generally accepted geotechnical engineering principles and practices at the time of this report. This company is not responsible for the conclusions, opinions or recommendations made by others based on these data.

The scope of the exploration was intended to provide information related to the soil conditions in the vicinity of the proposed South Selmon Capacity project. This report presents the geotechnical conditions based on the data obtained from the soil borings performed at the locations indicated in this report and does not reflect any variations which may occur between these borings. If any variations become evident during the course of design and/or construction, a re-evaluation of the conditions contained in this report is the responsibility of the design-build team.

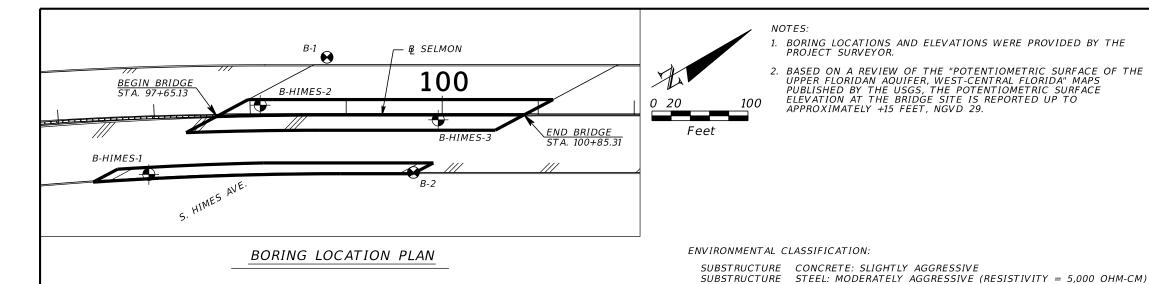
The data presented in this report is for informational purposes only. Once the design has been established, project-specific geotechnical evaluations and design analyses should be completed by the design-build team for the construction of the project. It should be noted that the design-build team will be responsible for the final design and their own interpretation of the data presented in this report.

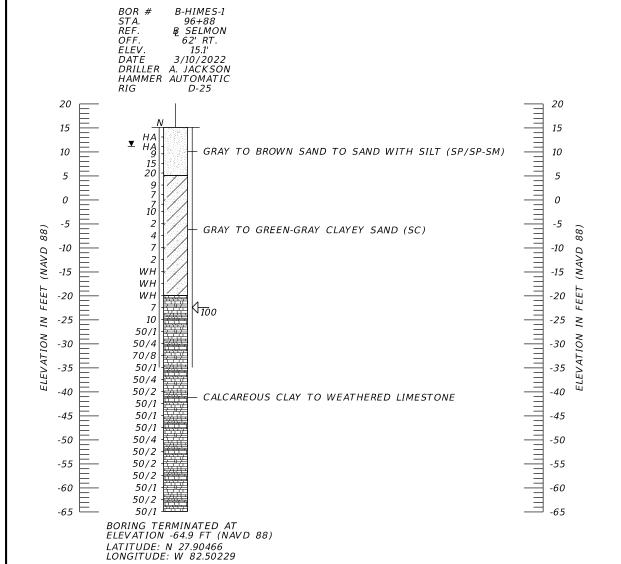
The scope of services, included herein, did not include any environmental assessment for the presence or absence of hazardous or toxic materials in the soil, surface water, groundwater, air, on the site, below, and around the site. Any statements in this report or on the boring logs regarding odors, colors, unusual or suspicious items and conditions are strictly for the information of HNTB and THEA.

APPENDIX A

Report of Core Borings Sheets – SR 618 over Himes Ave.

Existing Geotechnical Data – Borings Performed by Others





SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

CHLORIDES <5 PPM

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SULFATES <5 PPM

CORE

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PRESSURE

RESISTIVITY 5,000 TO 8,800 OHM-CM

7.6 TO 7.9

SOIL TEST RESULTS:

- BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.
- 2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29.

CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION CORE BARREL DIAMETER (INCHES)

DOWN PRESSURE APPLIED DURING CORE RUN (PSI)

DRY UNIT WEIGHT (PCF)
MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI)
SPLITTING TENSILE STRENGTH (PSI)

ROCK CORE TIME (MINUTES)

PERCENT RECOVERY (%)
ROCK QUALITY DESIGNATION (%)

LEGEND

GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM,

LIGHT GRAY TO LIGHT BROWN SILTY SAND (SM)

GRAY TO GREEN-GRAY CLAYEY SAND (SC)

DARK GRAY TO GREEN-GRAY TO BROWN SANDY CLAY TO CLAY (CL/CH)

CALCAREOUS CLAY TO WEATHERED LIMESTONE

SP UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

HAHAND AUGERED TO VERIFY UTILITY CLEARANCE

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT WHOF ROD AND HAMMER

WR

PLASTICITY INDÉX (%)

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION

FIELD EXPLORATIONS

√100 LOSS OF CIRCULATION OF DRILLING FLUID (%)

CASING

GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID. GNA

B SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

	SAFETY HAMMER	AUTOMATIC HAMMER			
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE			
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)			
VERY LOOSE	LESS THAN 4	LESS THAN 3			
LOOSE	4 to 10	3 to 8			
MEDIUM DENSE	10 to 30	8 to 24			
DENSE	30 to 50	24 to 40			
VERY DENSE	GREATER THAN 50	GREATER THAN 40			
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE			
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)			
VERY SOFT	LESS THAN 2	LESS THAN 1			
SOFT	2 to 4	1 to 3			
FIRM	4 to 8	3 to 6			
STIFF	8 to 15	6 to 12			
VERY STIFF	15 to 30	12 to 24			
HARD	GREATER THAN 30	GREATER THAN 24			

BRIDGE NOS. 100308 & 100309

		REVIS	SIONS		KEVIN H. SCOTT, P.E.	DRAWN BY:	TAMPA HILLSBO	DOLICH	SHEET TITLE:	REPORT OF CORE BORINGS (1)	REF. DWG. NO.
DATE	ВҮ	DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	CHECKED BY:	EXPRESSWAY AU			HIMES AVENUE	
					TIERRA, INC.		ROAD NO. COUNTY	THEA PROJECT NO.	DDO IECT NAME	TITMES AVENUE	
					7351 TEMPLE TERRACE HIGHWAY	DESIGNED BY:			PROJECT NAME:	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.
					TAMPA, FLORIDA 33637	CHECKED BY:	SR 618 HILLSBOROUGH	HI-0012		FROM HIMES AVENUE TO WHITING STREET	

J:\65||\202| Files\65||-2|-|69 THEA Master HNTB\TWO 7_South Selmon Drilling\Microstation\Geote

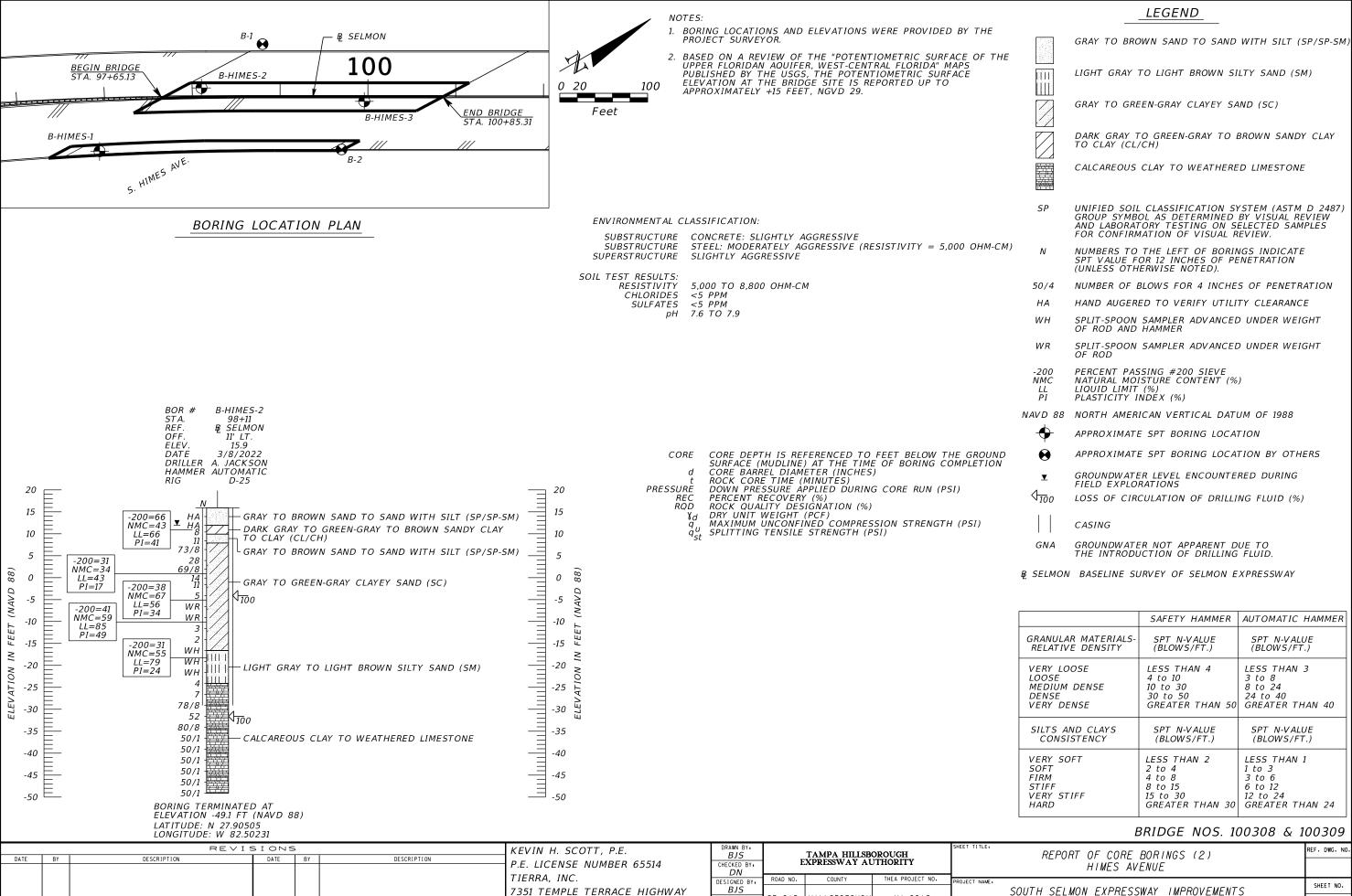
50/4

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT

PERCENT PASSING #200 SIEVE NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) -200 NMC

APPROXIMATE SPT BORING LOCATION BY OTHERS

GROUNDWATER LEVEL ENCOUNTERED DURING



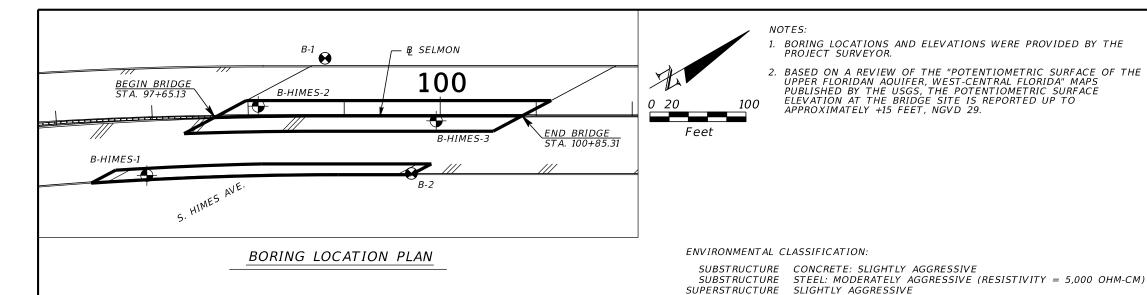
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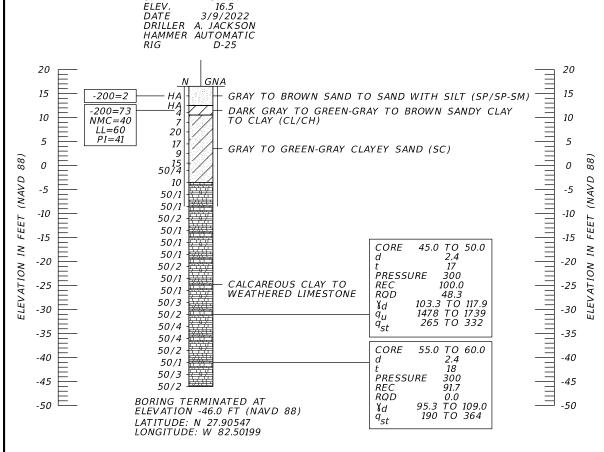
SOUTH SELMON EXPRESSWAY IMPROVEMENTS FROM HIMES AVENUE TO WHITING STREET

SR 618

KHS

HILLSBOROUGI





BOR #

STA

REF.

R-HIMES-3

99+96

B SELMON

SOIL TEST RESULTS:

RESISTIVITY 5,000 TO 8,800 OHM-CM

pH 7.6 TO 7.9

CHLORIDES <5 PPM

SULFATES <5 PPM

CORE

\{d

PRESSURE

- BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.
- 2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29.

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DOWN PRESSURE APPLIED DURING CORE RUN (PSI)

MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI) SPLITTING TENSILE STRENGTH (PSI)

ROCK CORE TIME (MINUTES)

DRY UNIT WEIGHT (PCF)

PERCENT RECOVERY (%)
ROCK QUALITY DESIGNATION (%)

LEGEND

GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM,

LIGHT GRAY TO LIGHT BROWN SILTY SAND (SM)

GRAY TO GREEN-GRAY CLAYEY SAND (SC)

DARK GRAY TO GREEN-GRAY TO BROWN SANDY CLAY TO CLAY (CL/CH)

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UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION 50/4

HAHAND AUGERED TO VERIFY UTILITY CLEARANCE

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT WHOF ROD AND HAMMER

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT WR

PERCENT PASSING #200 SIEVE NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) -200 NMC PLASTICITY INDÉX (%)

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION

APPROXIMATE SPT BORING LOCATION BY OTHERS

GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

√100 LOSS OF CIRCULATION OF DRILLING FLUID (%)

CASING

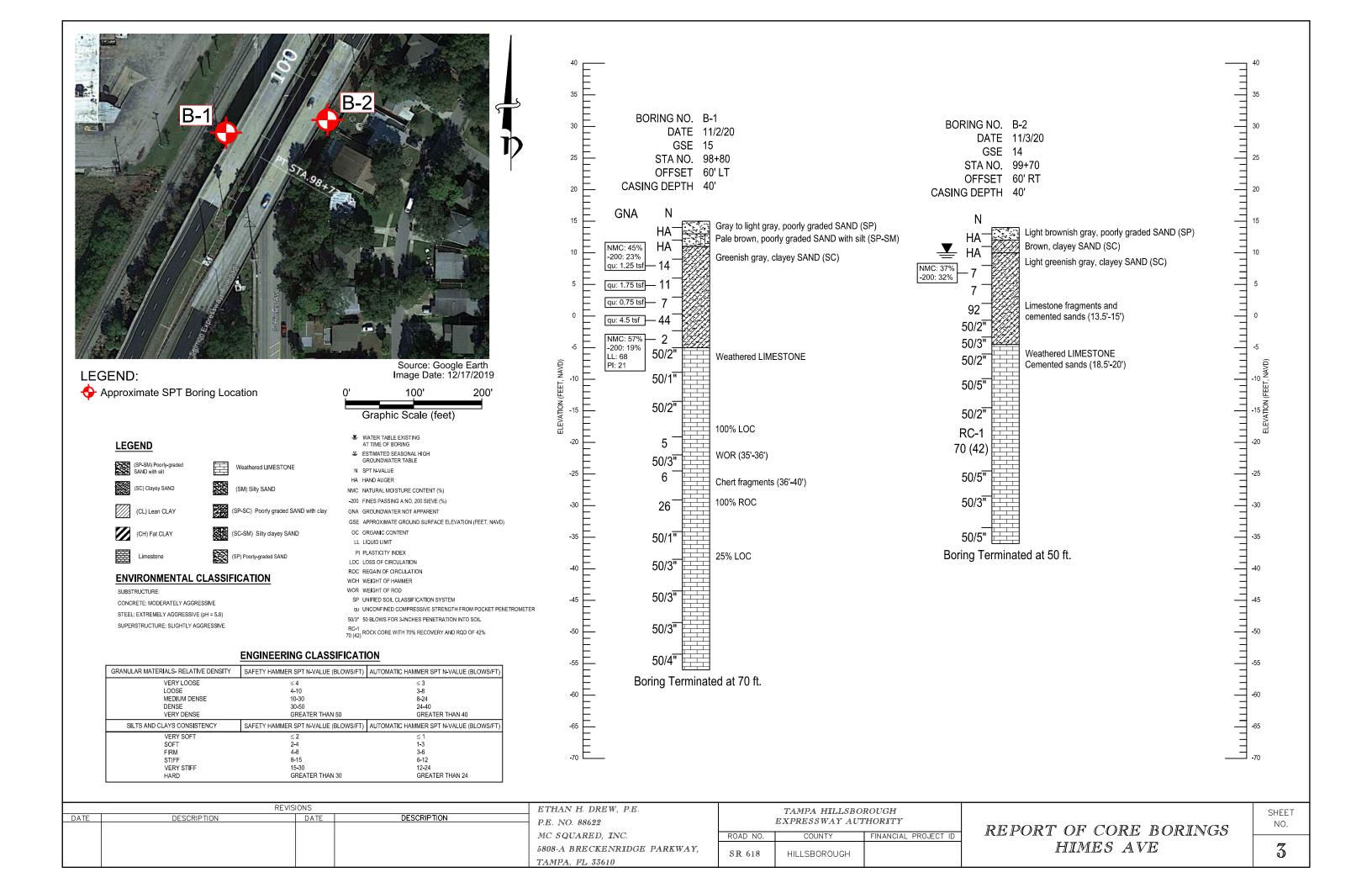
GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID. GNA

B SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

	SAFETY HAMMER	AUTOMATIC HAMMER		
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE		
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)		
VERY LOOSE	LESS THAN 4	LESS THAN 3		
LOOSE	4 to 10	3 to 8		
MEDIUM DENSE	10 to 30	8 to 24		
DENSE	30 to 50	24 to 40		
VERY DENSE	GREATER THAN 50	GREATER THAN 40		
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE		
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)		
VERY SOFT	LESS THAN 2	LESS THAN 1		
SOFT	2 to 4	1 to 3		
FIRM	4 to 8	3 to 6		
STIFF	8 to 15	6 to 12		
VERY STIFF	15 to 30	12 to 24		
HARD	GREATER THAN 30	GREATER THAN 24		

BRIDGE NOS. 100308 & 100309

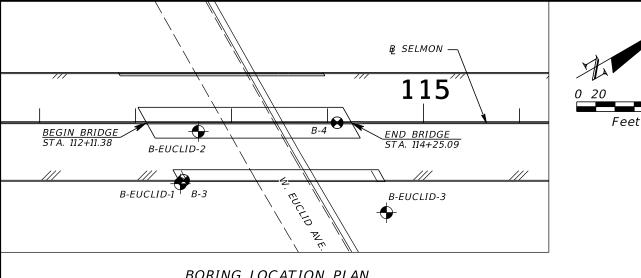
REVISIONS KEVIN H. SCOTT, P.E.				KEVIN H. SCOTT, P.E.	DRAWN BY:		TAMPA HILLSB	OBOLICH	SHEET TITLE:	DEDORT OF CORE DODINGS (3)	REF. DWG. NO
DATE BY	DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	BJS CHECKED BY:	1	EXPRESSWAY AU	THORITY		REPORT OF CORE BORINGS (3) HIMES AVENUE	
				TIERRA, INC.	DIV	ROAD NO.	COUNTY	THEA PROJECT NO.		TITMES AVENUE	
				7351 TEMPLE TERRACE HIGHWAY	DESIGNED BY:				PROJECT NAME:	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.
				TAMPA, FLORIDA 33637	CHECKED BY:	SR 618	HILLSBOROUGH	HI-0012		FROM HIMES AVENUE TO WHITING STREET	



APPENDIX B

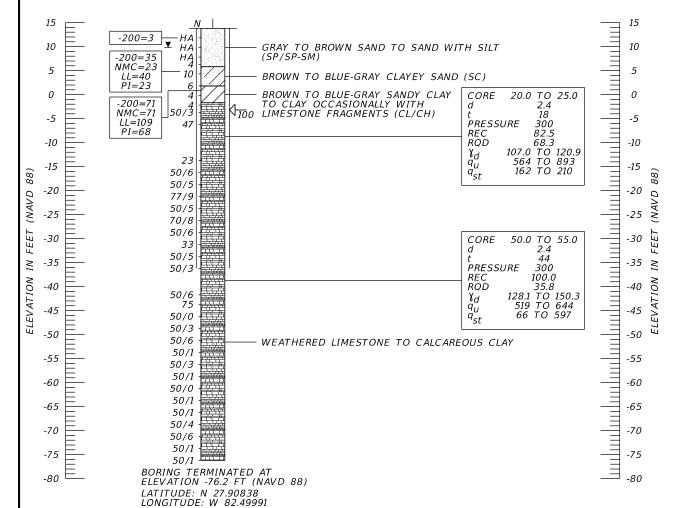
Report of Core Borings Sheets – SR 618 over Euclid Ave.

Existing Geotechnical Data – Borings Performed by Others



BORING LOCATION PLAN

BOR # B-EUCLID-1 112+47 STA. REF. ₿ SELMON 64' RT. FIFV. 13.8 10/25/2021 DATE DRILLER D. STAKELIN HAMMER AUTOMATIC D-25



100

- 1. BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.
- 2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29.

SUBSTRUCTURE CONCRETE: SLIGHTLY AGGRESSIVE

12,000 TO 24,000 OHM-CM

SUBSTRUCTURE STEEL: SLIGHTLY AGGRESSIVE

SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

pH 7.5 TO 7.7

ENVIRONMENTAL CLASSIFICATION:

CHLORIDES 15 PPM

SULFATES <5 PPM

SOIL TEST RESULTS:

RESISTIVITY

LEGEND

GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)

BROWN TO BLUE-GRAY CLAYEY SAND (SC)



BROWN TO BLUE-GRAY SANDY CLAY TO CLAY OCCASIONALLY WITH LIMESTONE FRAGMENTS



WEATHERED LIMESTONE TO CALCAREOUS CLAY

- UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES SP FOR CONFIRMATION OF VISUAL REVIEW.
- NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
- NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION
- HAND AUGERED TO VERIFY UTILITY CLEARANCE HA
- SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER
- -200 PERCENT PASSING #200 SIEVE NMC NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) PΙ PLASTICITY INDEX (%)

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION

APPROXIMATE SPT BORING LOCATION BY OTHERS

GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

LOSS OF CIRCULATION OF DRILLING FLUID (%)

CASING

B SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION CORE BARREL DIAMETER (INCHES) ROCK CORE TIME (MINUTES) PRESSURE DOWN PRESSURE APPLIED DURING CORE RUN (PSI)

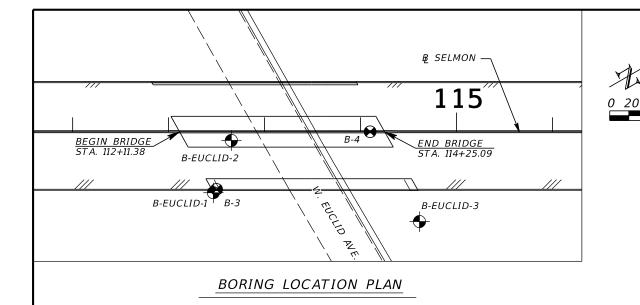
PERCENT RECOVERY (%) ROCK QUALITY DESIGNATION (%) RQD

DRY UNIT WEIGHT (PCF)
MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI)
SPLITTING TENSILE STRENGTH (PSI)

SAFETY HAMMER AUTOMATIC HAMMER GRANULAR MATERIALS-RELATIVE DENSITY (BLOWS/FT.) (BLOWS/FT.) VERY LOOSE LESS THAN 4 LESS THAN 3 LOOSE 4 to 10 3 to 8 MEDIUM DENSE 10 to 30 8 to 24 DENSE 30 to 50 24 to 40 GREATER THAN 50 GREATER THAN 40 **VERY DENSE** SILTS AND CLAYS SPT N-VALUE SPT N-VALUE CONSISTENCY (BLOWS/FT.) (BLOWS/FT.) LESS THAN 2 VERY SOFT LESS THAN 1 **SOFT** 2 to 4 1 to 3 4 to 8 FIRM 3 to 6 STIFF 8 to 15 6 to 12 **VERY STIFF** 12 to 24 GREATER THAN 24 15 to 30 GREATER THAN 30 HARD

BRIDGE NOS. 100310 & 100311

	REVI	SIONS		KEVIN H. SCOTT, P.E.	DRAWN BY:	TAMPA HILLSB	OPOLICH	SHEET TITLE:	REPORT OF CORE BORINGS (I)	REF. DWG. NO.
DATE	BY DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	BJS CHECKED BY: DN	EXPRESSWAY AU	JTHORITY		W. EUCLID AVENUE	
				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY	DESIGNED BY:	ROAD NO. COUNTY		PROJECT NAME:	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.
				TAMPA, FLORIDA 33637	CHECKED BY:	SR 618 HILLSBOROUGH	HI-0012		FROM HIMES AVENUE TO WHITING STREET	



BOR #

RFF

RIG

NMC=87

LL=79

PI=51

-200=43

NMC=76

LL=58

PI = 37

-200=53

LL=47

PI=22

-200=58

NMC=62

LL=47

PI=22

HA ▼ HA

 $H_{\frac{A}{4}}$

10 18

WH

WH

25

35

50/4

50/5

50/3 50/2

50/1

50/2

50/2

50/5

50/3 50/1

50/1 50/2

50/4 50/1

50/0

BORING TERMINATED AT ELEVATION -75.4 FT (NAVD 88)

LATITUDE: N 27.90850

LONGITUDE: W 82.50002

15

10

5

0

-5

-10

-15

-20

-25

-30

-35

-40

-45

-50

-55

-60

-65

-70

-75

-80

ELEV.

B-EUCLID-2

₽ SELMON

9' RT.

14.6'

10/28/2021

D-25

(CL/CH)

GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)

40.0 TO 45.0

66.7

30.0 84.3 TO 119.1

112 TO 292

93

65.0 TO 70.0

300

100.0

112.4 TO 140.6 167 TO 562

226 TO 532

BROWN TO BLUE-GRAY SANDY CLAY TO CLAY

BROWN TO BLUE-GRAY CLAYEY SAND (SC)

OCCASIONALLY WITH LIMESTONE FRAGMENTS

BROWN TO BLUE-GRAY SANDY CLAY TO CLAY OCCASIONALLY WITH LIMESTONE FRAGMENTS

CORE

RQD

WEATHERED LIMESTONE TO CALCAREOUS CLAY

CORE

RQD

PRESSURE

PRESSURE

DRILLER D. STAKELIN

HAMMER AUTOMATIC

Feet

15

10

0

-5

-10

-15

-20

-30

-40

-45

-50

-55

-60

-65

-70

-75

-80

-25 A

-35 ≥

Q

- 1. BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.
- 2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29.

ENVIRONMENTAL CLASSIFICATION:

CHLORIDES 15 PPM

SULFATES <5 PPM

SOIL TEST RESULTS:

RESISTIVITY

SUBSTRUCTURE CONCRETE: SLIGHTLY AGGRESSIVE

12,000 TO 24,000 OHM-CM

SUBSTRUCTURE STEEL: SLIGHTLY AGGRESSIVE

SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

pH 7.5 TO 7.7

LEGEND

GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)

BROWN TO BLUE-GRAY CLAYEY SAND (SC)



BROWN TO BLUE-GRAY SANDY CLAY TO CLAY OCCASIONALLY WITH LIMESTONE FRAGMENTS



WEATHERED LIMESTONE TO CALCAREOUS CLAY

- UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
- NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION
- HAND AUGERED TO VERIFY UTILITY CLEARANCE HA
- SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER
- -200 PERCENT PASSING #200 SIEVE NMC NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) PΙ PLASTICITY INDEX (%)

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION

APPROXIMATE SPT BORING LOCATION BY OTHERS

GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

LOSS OF CIRCULATION OF DRILLING FLUID (%)

CASING

8:14:44 PM

B SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION CORE BARREL DIAMETER (INCHES)

ROCK CORE TIME (MINUTES) PRESSURE DOWN PRESSURE APPLIED DURING CORE RUN (PSI) PERCENT RECOVERY (%)

ROCK QUALITY DESIGNATION (%) RQD

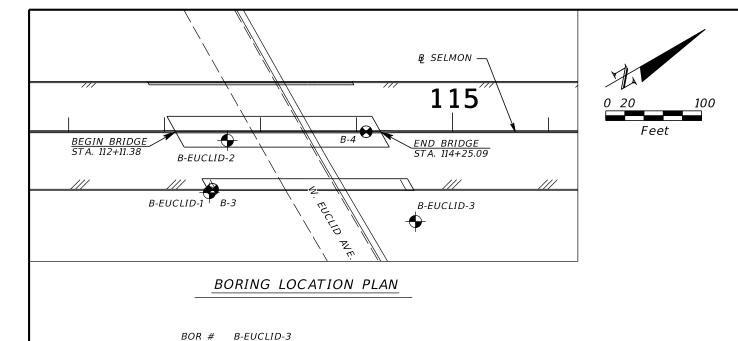
DRY UNIT WEIGHT (PCF)
MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI) SPLITTING TENSILE STRENGTH (PSI)

	SAFETY HAMMER	AUTOMATIC HAMMER				
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE				
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)				
VERY LOOSE	LESS THAN 4	LESS THAN 3				
LOOSE	4 to 10	3 to 8				
MEDIUM DENSE	10 to 30	8 to 24				
DENSE	30 to 50	24 to 40				
VERY DENSE	GREATER THAN 50	GREATER THAN 40				
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE				
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)				
VERY SOFT	LESS THAN 2	LESS THAN 1				
SOFT	2 to 4	1 to 3				
FIRM	4 to 8	3 to 6				
STIFF	8 to 15	6 to 12				
VERY STIFF	15 to 30	12 to 24				
HARD	GREATER THAN 30	GREATER THAN 24				

BRIDGE NOS. 100310 & 100311

:\65||\202|Files\65||-2|-|69 THEA Master HNTB\TWO 7_South Selmon Dri

				KEVIN H. SCOTT, P.E.	DRAWN BY:	TAMPA HILLSB	OPOLICH	SHEET TITLE:	REPORT OF CORE BORINGS (2)	REF. DWG. NO	
DATE BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	CHECKED BY:	EXPRESSWAY AU	THORITY		W. EUCLID AVENUE	
					TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY	DESIGNED BY:	ROAD NO. COUNTY		PROJECT NAME:	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.
					TAMPA, FLORIDA 33637	CHECKED BY:	SR 618 HILLSBOROUGH	HI-0012		FROM HIMES AVENUE TO WHITING STREET	



GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)

CORE

ROD

CORE

RQD

γd

PRESSURE

PRESSURE

20.0 TO 25.0

300

75.8

116.1 TO 143.8 869 TO 1668

307 TO 636

50.0 TO 55.0

300

116.1 TO 131.2 883 TO 943 242 TO 303

BROWN TO BLUE-GRAY SANDY CLAY TO CLAY

OCCASIONALLY WITH LIMESTONE FRAGMENTS

- WEATHERED LIMESTONE TO CALCAREOUS CLAY

BROWN TO BLUE-GRAY CLAYEY SAND (SC)

RFF

OFF

FIFV

DATE

RIG

- HA

HA

50/1

50/5

50/4

84/9

90/9

50/3

50/2

50/2 50/6

50/1

50/0

50/1

50/6 50/6

50/2

50/1

50/1 50/2

50/3 50/1

50/0 69/6

50/5 50/6

54

BORING TERMINATED AT ELEVATION -75.4 FT (NAVD 88)

LATITUDE: N 27.90885

LONGITUDE: W 82.49950

50

-200=2

-200=11

-200=48

NMC=42

11 = 51

PI=34

15

10

5

0

-5

-10

-20

-25

-30

-40

-45

-50

-55

-60

-65

-70

-75

-80

Q

ION

₿ SELMON

94' RT.

14.6'

11/1/2021

D-25

100

100

DRILLER D. STAKELIN

HAMMER AUTOMATIC

15

15
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50
-55
-60
-65
-70
-75
-80

-35 ≥

Q

- 1. BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.
- 2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29.

SUBSTRUCTURE CONCRETE: SLIGHTLY AGGRESSIVE

12,000 TO 24,000 OHM-CM

SUBSTRUCTURE STEEL: SLIGHTLY AGGRESSIVE

SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

pH 7.5 TO 7.7

ENVIRONMENTAL CLASSIFICATION:

CHLORIDES 15 PPM

SULFATES <5 PPM

SOIL TEST RESULTS:

RESISTIVITY

LEGEND

GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)



BROWN TO BLUE-GRAY SANDY CLAY TO CLAY OCCASIONALLY WITH LIMESTONE FRAGMENTS



WEATHERED LIMESTONE TO CALCAREOUS CLAY



NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER

NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) PLASTICITY INDEX (%)

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION BY OTHERS

GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

CASING

B SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION CORE BARREL DIAMETER (INCHES)

DOWN PRESSURE APPLIED DURING CORE RUN (PSI) PERCENT RECOVERY (%)

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

BRIDGE NOS. 100310 & 100311

			ISIONS	5		KEVIN H. SCOTT, P.E.	DRAWN BY:	TAMPA HILLSB	OBOTICH	SHEET TITLE:	REPORT OF CORE BORINGS (3)	REF. DWG. NO
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	CHECKED BY:	EXPRESSWAY AU			W. EUCLID AVENUE	
						TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY	DESIGNED BY:	ROAD NO. COUNTY	THEA PROJECT NO.	PROJECT NAME:	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.
						TAMPA, FLORIDA 33637	CHECKED BY.	SR 618 HILLSBOROUGH	HI-0012		FROM HIMES AVENUE TO WHITING STREET	

BROWN TO BLUE-GRAY CLAYEY SAND (SC)

HAND AUGERED TO VERIFY UTILITY CLEARANCE HA

-200 PERCENT PASSING #200 SIEVE NMC PΙ

APPROXIMATE SPT BORING LOCATION

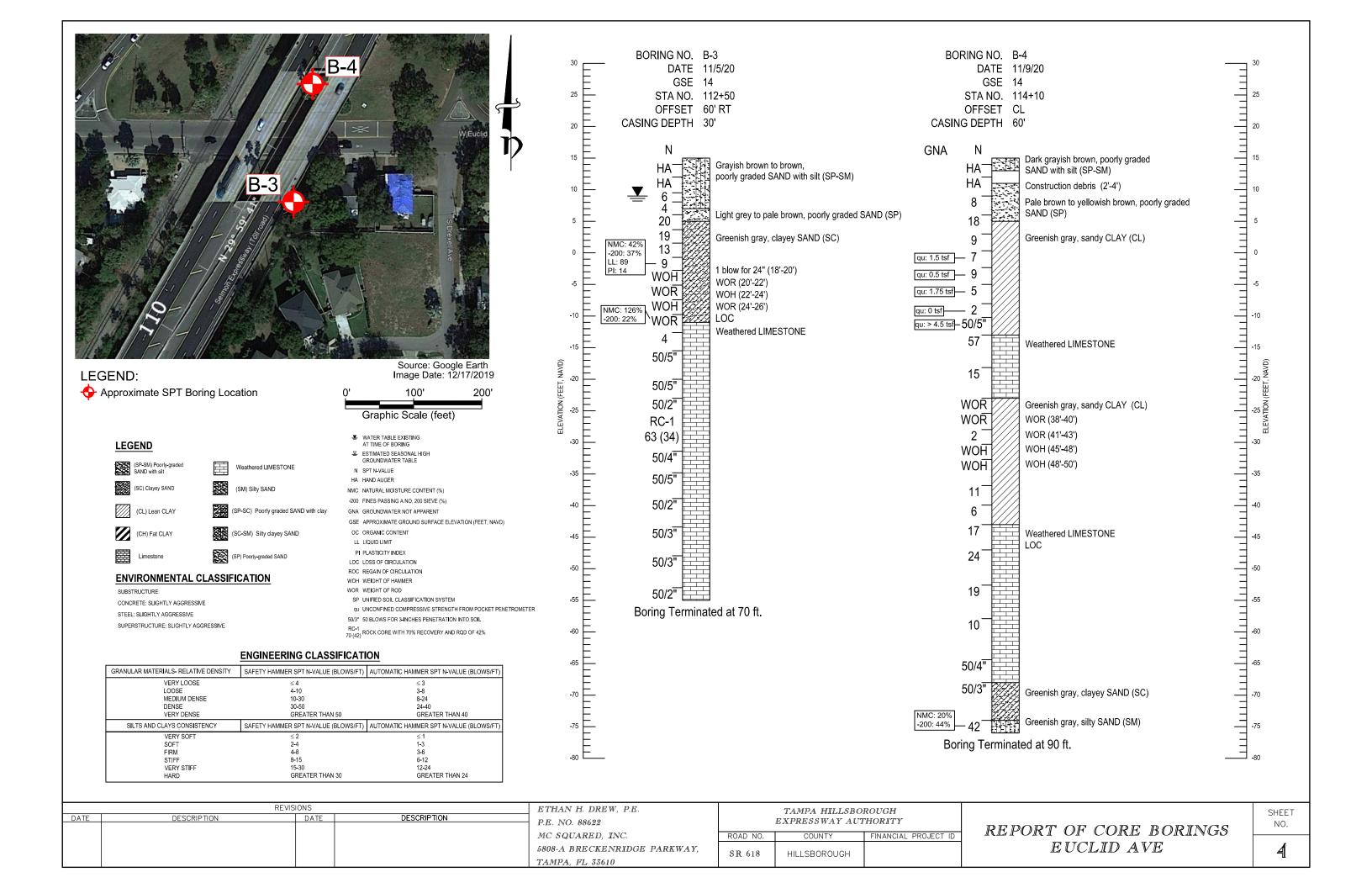
LOSS OF CIRCULATION OF DRILLING FLUID (%)

ROCK CORE TIME (MINUTES) PRESSURE

ROCK QUALITY DESIGNATION (%) RQD

DRY UNIT WEIGHT (PCF)
MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI)
SPLITTING TENSILE STRENGTH (PSI)

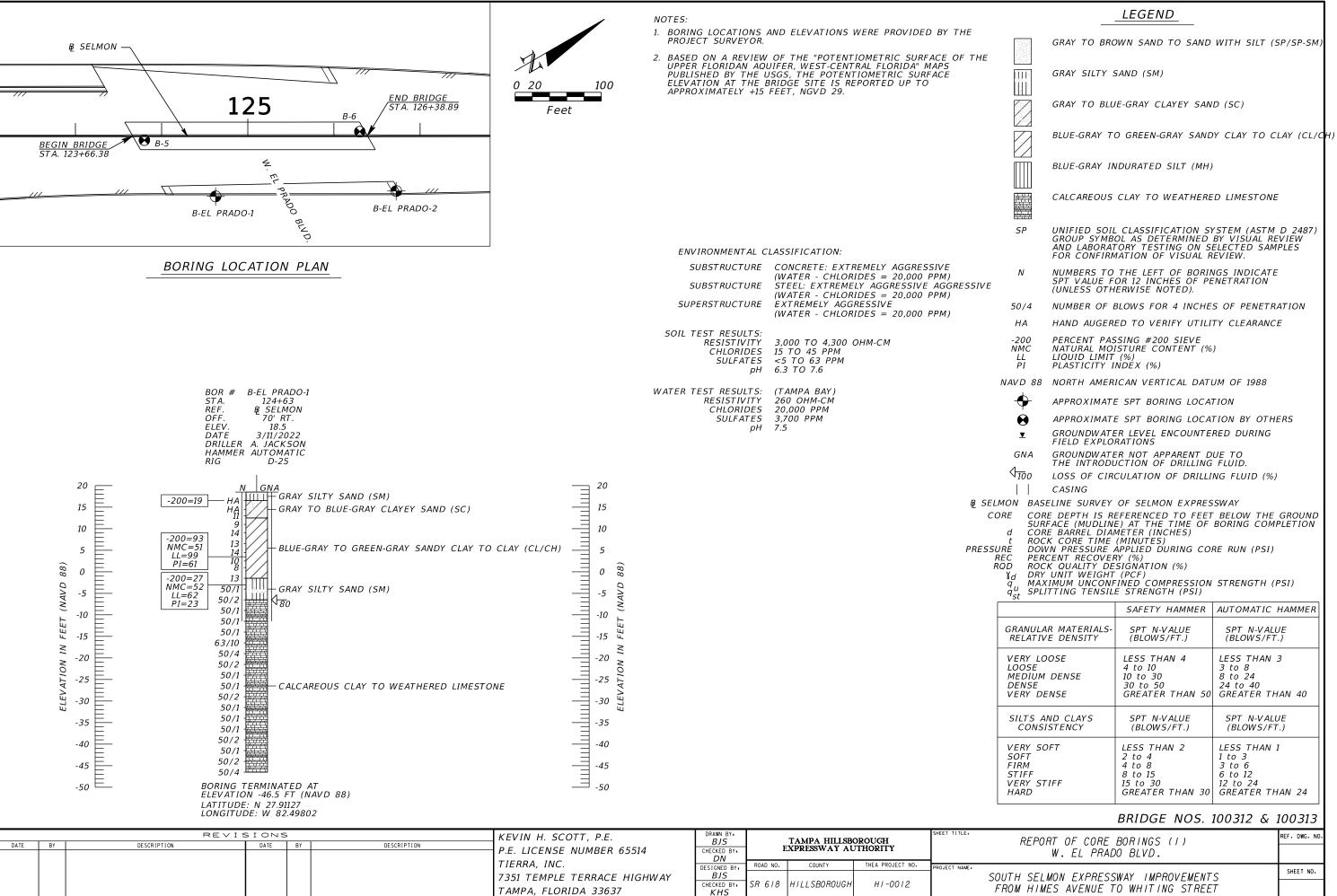
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE		
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)		
VERY LOOSE	LESS THAN 4	LESS THAN 3		
LOOSE	4 to 10	3 to 8		
MEDIUM DENSE	10 to 30	8 to 24		
DENSE	30 to 50	24 to 40		
VERY DENSE	GREATER THAN 50	GREATER THAN 40		
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE		
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)		
VERY SOFT	LESS THAN 2	LESS THAN 1		
SOFT	2 to 4	1 to 3		
FIRM	4 to 8	3 to 6		
STIFF	8 to 15	6 to 12		
VERY STIFF	15 to 30	12 to 24		



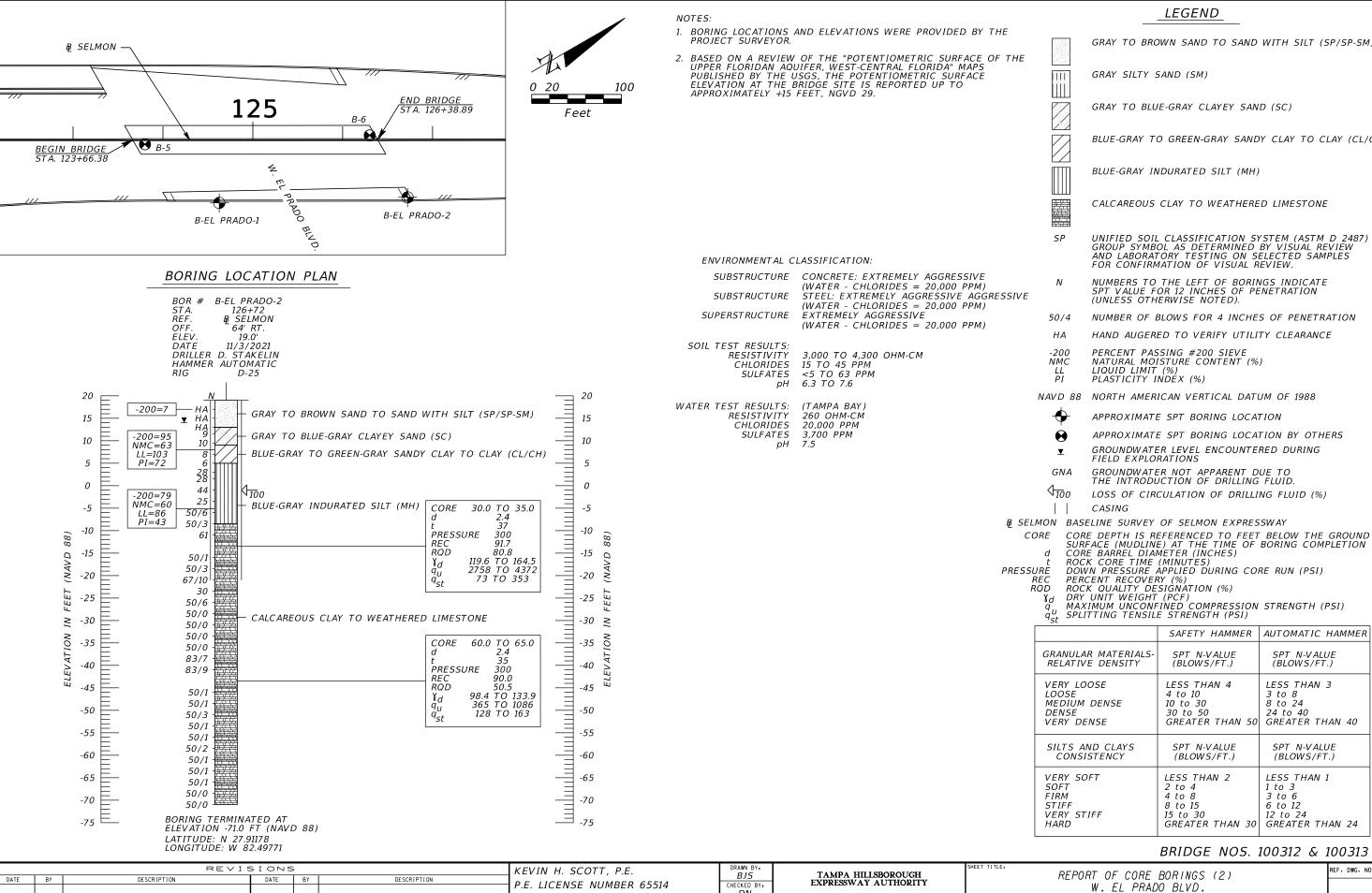
APPENDIX C

Report of Core Borings Sheets – SR 618 over El Prado Blvd.

Existing Geotechnical Data – Borings Performed by Others



FROM HIMES AVENUE TO WHITING STREET



I:\65||\202| Files\65||-2|-|69 THEA Master HNTB\TWO 7_South Selmon Drilling\Mid

BLUE-GRAY TO GREEN-GRAY SANDY CLAY TO CLAY (CL/CH)

CALCAREOUS CLAY TO WEATHERED LIMESTONE

GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

APPROXIMATE SPT BORING LOCATION

APPROXIMATE SPT BORING LOCATION BY OTHERS

LOSS OF CIRCULATION OF DRILLING FLUID (%)

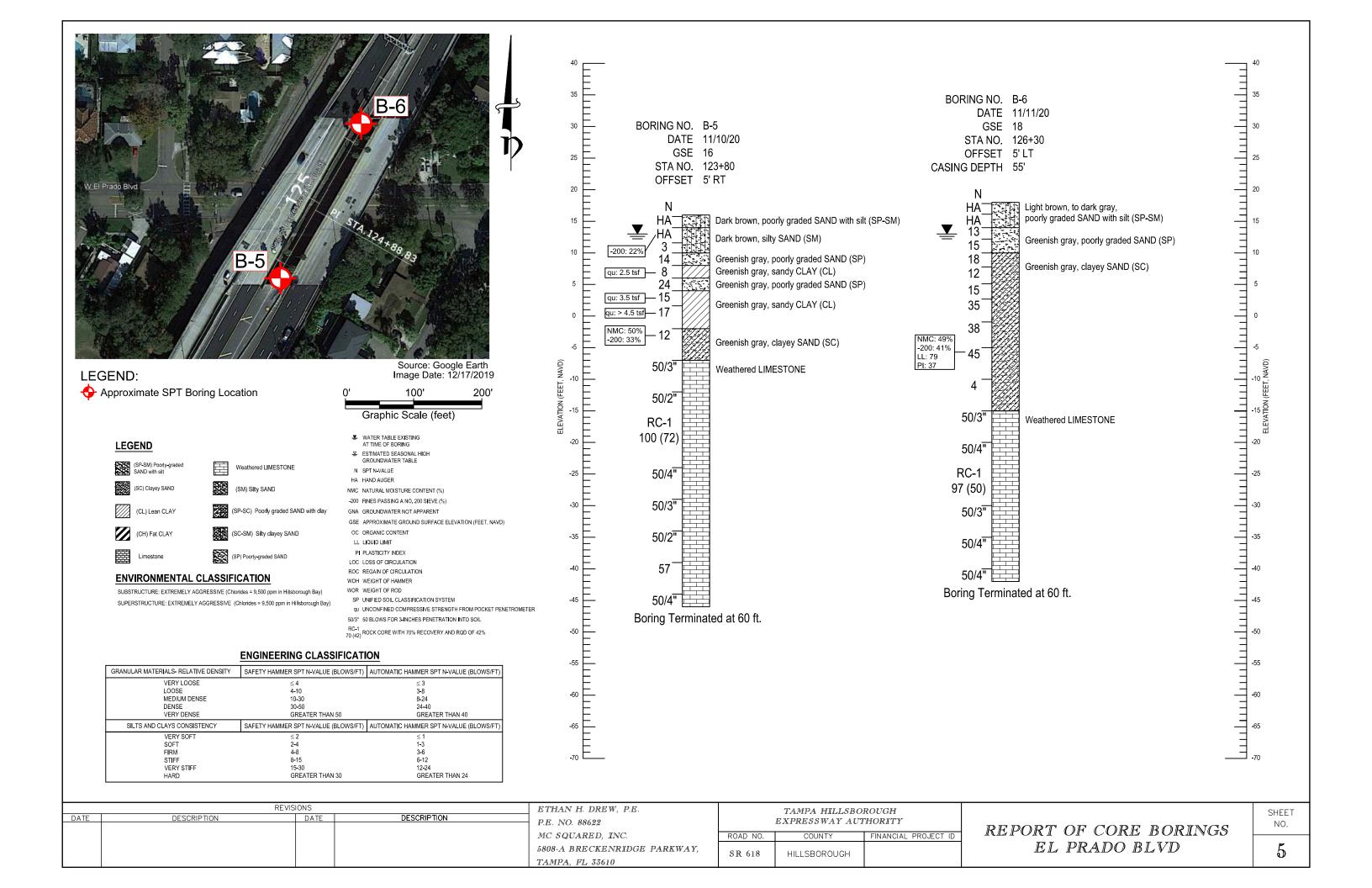
CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION CORE BARREL DIAMETER (INCHES)

DOWN PRESSURE APPLIED DURING CORE RUN (PSI)

	SAFETY HAMMER	AUTOMATIC HAMMER				
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE				
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)				
VERY LOOSE	LESS THAN 4	LESS THAN 3				
LOOSE	4 to 10	3 to 8				
MEDIUM DENSE	10 to 30	8 to 24				
DENSE	30 to 50	24 to 40				
VERY DENSE	GREATER THAN 50	GREATER THAN 40				
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE				
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)				
VERY SOFT	LESS THAN 2	LESS THAN 1				
SOFT	2 to 4	1 to 3				
FIRM	4 to 8	3 to 6				
STIFF	8 to 15	6 to 12				
VERY STIFF	15 to 30	12 to 24				
HARD	GREATER THAN 30	GREATER THAN 24				

BRIDGE NOS. 100312 & 100313

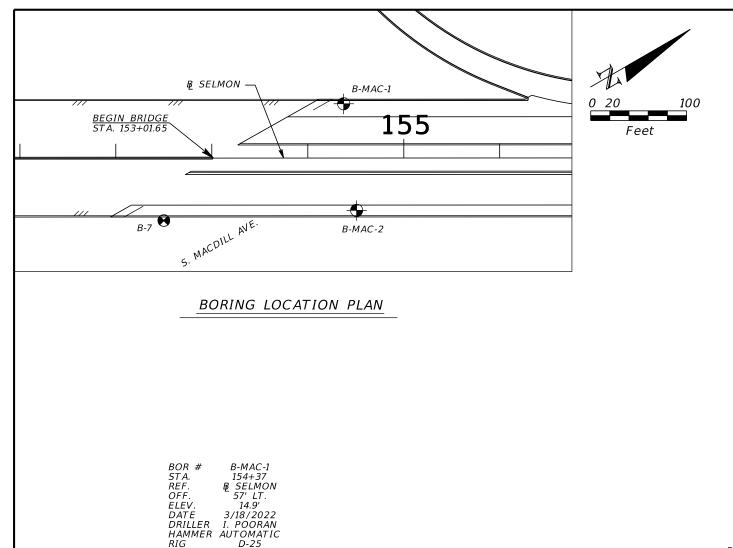
REVISIONS				KEVIN H. SCOTT, P.E.	DRAWN BY:	TAMPA HILLSBOROUGH			SHEET TITLE. REPORT OF CORE BORINGS (2)		REF. DWG. N	١0.	
DATE	BY DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	CHECKED BY:	EXPRESSWAY AUTHORITY		THORITY W. EL PRADO BLVD.			1	
					TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY	DESIGNED BY:	ROAD NO.	COUNTY	THEA PROJECT NO.	PROJECT NAME:	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.	.
					TAMPA, FLORIDA 33637	CHECKED BY:	SR 618	HILLSBOROUGH	HI-0012		FROM HIMES AVENUE TO WHITING STREET		



APPENDIX D

Report of Core Borings Sheets – SR 618 over MacDill Ave./Bay to Bay Blvd.

Existing Geotechnical Data – Borings Performed by Others



-LIGHT BROWN TO GRAY SAND TO SAND WITH SILT (SP/SP-SM)

-LIGHT GRAY TO GREEN-GRAY SILTY SAND (SM)

LIGHT GRAY TO GREEN GRAY CLAYEY SAND (SC)

CORE 25.0 TO 30.0

-CALCAREOUS CLAY TO WEATHERED LIMESTONE

400 96.7

118.7 TO 129.0

148 TO 318

55.0 TO 60.0

400

100.0

26.7

130.8 TO 152.6

796 TO 896

PRESSURE

REC RQD

CORE

RQD

PRESSURE

15

10

5

0 88)

-10

-15

-25

-30

-40

-45

-50

(NAVD -5

<u>></u> -20 -200=4

-200=43

NMC=28

PI=26

HA

30

50/5

50/2

50/4

50/2

87/11 I 50/3 昼

50/2 崇 50/1 -

50/1 50/2

50/5 50/4 -*50/1* ∄

50/1

50/1

BORING TERMINATED AT

ELEVATION -45.1 FT (NAVD 88) LATITUDE: N 27.91855 LONGITUDE: W 82.49379

100

√100

- 1. BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.
- 2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29.

CONCRETE: EXTREMELY AGGRESSIVE

(WATER - CHLORIDES = 20,000 PPM)

(WATER - CHLORIDES = 20,000 PPM)

EXTREMELY AGGRESSIVE

20,000 TO 23,000 OHM-CM

CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND

SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION

DOWN PRESSURE APPLIED DURING CORE RUN (PSI)

DRY UNIT WEIGHT (PCF)
MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI)

(WATER - CHLORIDES = 20,000 PPM) STEEL: EXTREMELY AGGRESSIVE AGGRESSIVE

ENVIRONMENTAL CLASSIFICATION:

CHLORIDES 15 PPM

<5 PPM

8.2 TO 8.6

(TAMPA BAY)

260 OHM-CM

20,000 PPM

3,700 PPM

CORE BARREL DIAMETER (INCHES) ROCK CORE TIME (MINUTES)

ROCK QUALITY DESIGNATION (%)

SPLITTING TENSILE STRENGTH (PSI)

SUBSTRUCTURE

SUBSTRUCTURE

SUPERSTRUCTURE

RESISTIVITY

RESISTIVITY

CHLORIDES

SULFATES

рΗ

PERCENT RECOVERY (%)

SULFATES

SOIL TEST RESULTS:

WATER TEST RESULTS:

PRESSURE

15

10

5

-5 -10 NAVD

-15

-20 ≥

-25 Š

-30 SE-

-35

-40

-45

-50

RQD

٧d

LEGEND

LIGHT BROWN TO GRAY SAND TO SAND WITH SILT

LIGHT GRAY TO GREEN-GRAY SILTY SAND (SM)

LIGHT GRAY TO GREEN GRAY CLAYEY SAND (SC)

GRAY TO GREEN-GRAY CLAY TO SILT (CL/CH/MH)

CALCAREOUS CLAY TO WEATHERED LIMESTONE

SP UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

50/4 NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

HAND AUGERED TO VERIFY UTILITY CLEARANCE

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER

PERCENT PASSING #200 SIEVE NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) PIPLASTICITY INDEX (%)

APPROXIMATE SPT BORING LOCATION BY OTHERS

FIELD EXPLORATIONS

√100 LOSS OF CIRCULATION OF DRILLING FLUID (%)

B SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE	30 to 50	LESS THAN 3 3 to 8 8 to 24 24 to 40 GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

BRIDGE NOS. 100314 & 100315

L												
	REVISIONS				KEVIN H. SCOTT, P.E.	DRAWN BY:		TAMPA HILLSB	OBOLICH	SHEET TITLE:	REPORT OF CORE BORINGS (I)	REF. DWG. NO.
F	DATE BY	DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	BJS CHECKED BY:	EXPRESSWAY AUTHORITY				S. MACDILL AVE./BAY TO BAY BLVD.	
- [TIERRA, INC.	DN DESIGNED BY:	ROAD NO.	ROAD NO. COUNTY TH	THEA PROJECT NO.	PROJECT NAME:	3. WARD TEE THE STORY TO BALL BELLD.	-
					7351 TEMPLE TERRACE HIGHWAY	BJS				1	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.
					TAMPA, FLORIDA 33637	CHECKED BY:	SR 618	HILLSBOROUGH	HI-0012		FROM HIMES AVENUE TO WHITING STREET	

8:14:46 PM

J:\65II\202I Files\65II-2I-I69 THEA Master HNTB\TWO 7_South Selmon Drilling\Micr

HA

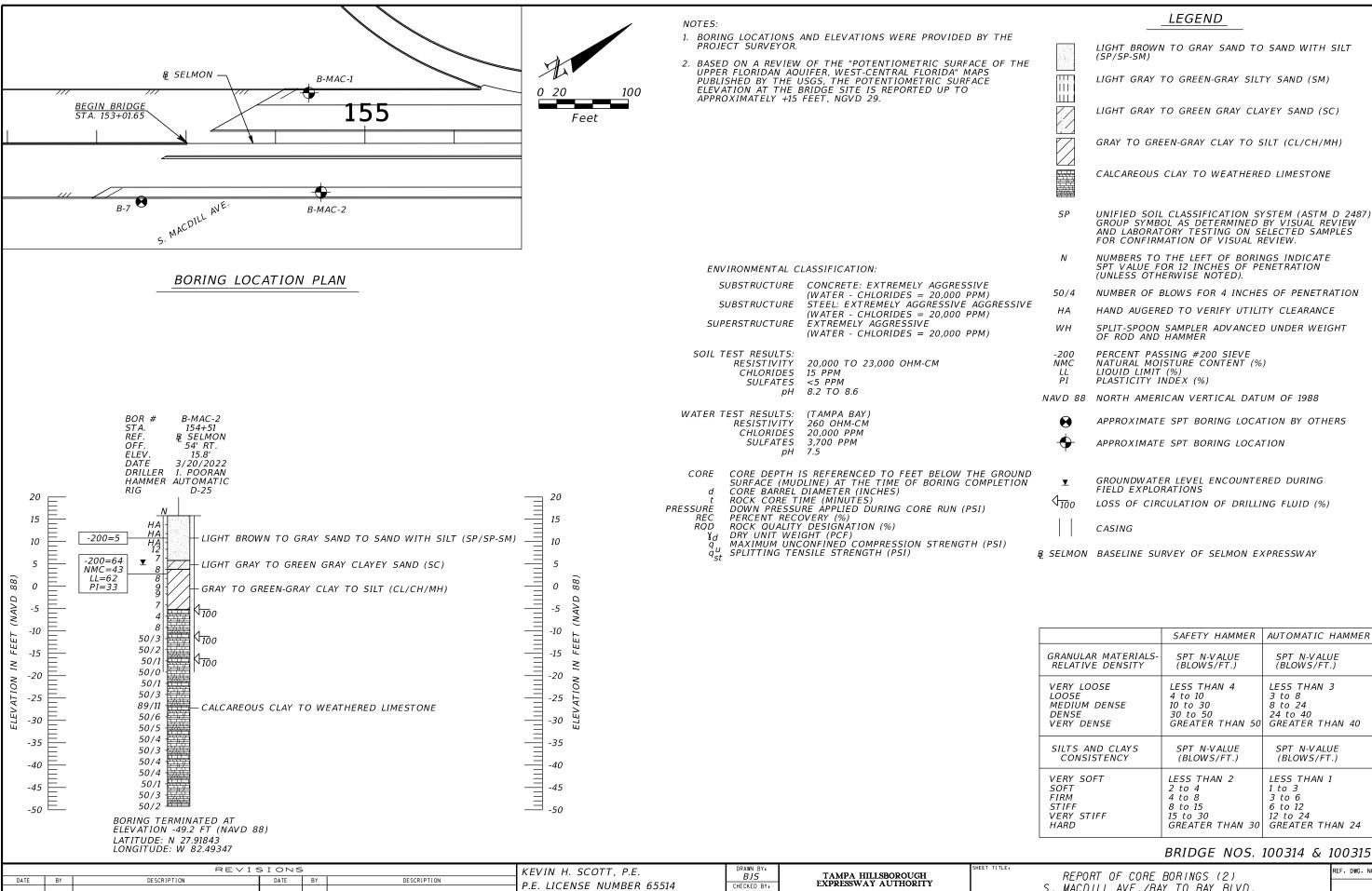
-200 NMC

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION

GROUNDWATER LEVEL ENCOUNTERED DURING

CASING



SHEET NO.

FROM HIMES AVENUE TO WHITING STREET

S. MACDILL AVE./BAY TO BAY BLVD.

SOUTH SELMON EXPRESSWAY IMPROVEMENTS

THEA PROJECT NO.

HI-0012

COUNTY

HILLSBOROUGH

DN

DESIGNED BY

BJS

CHECKED BY

KHS

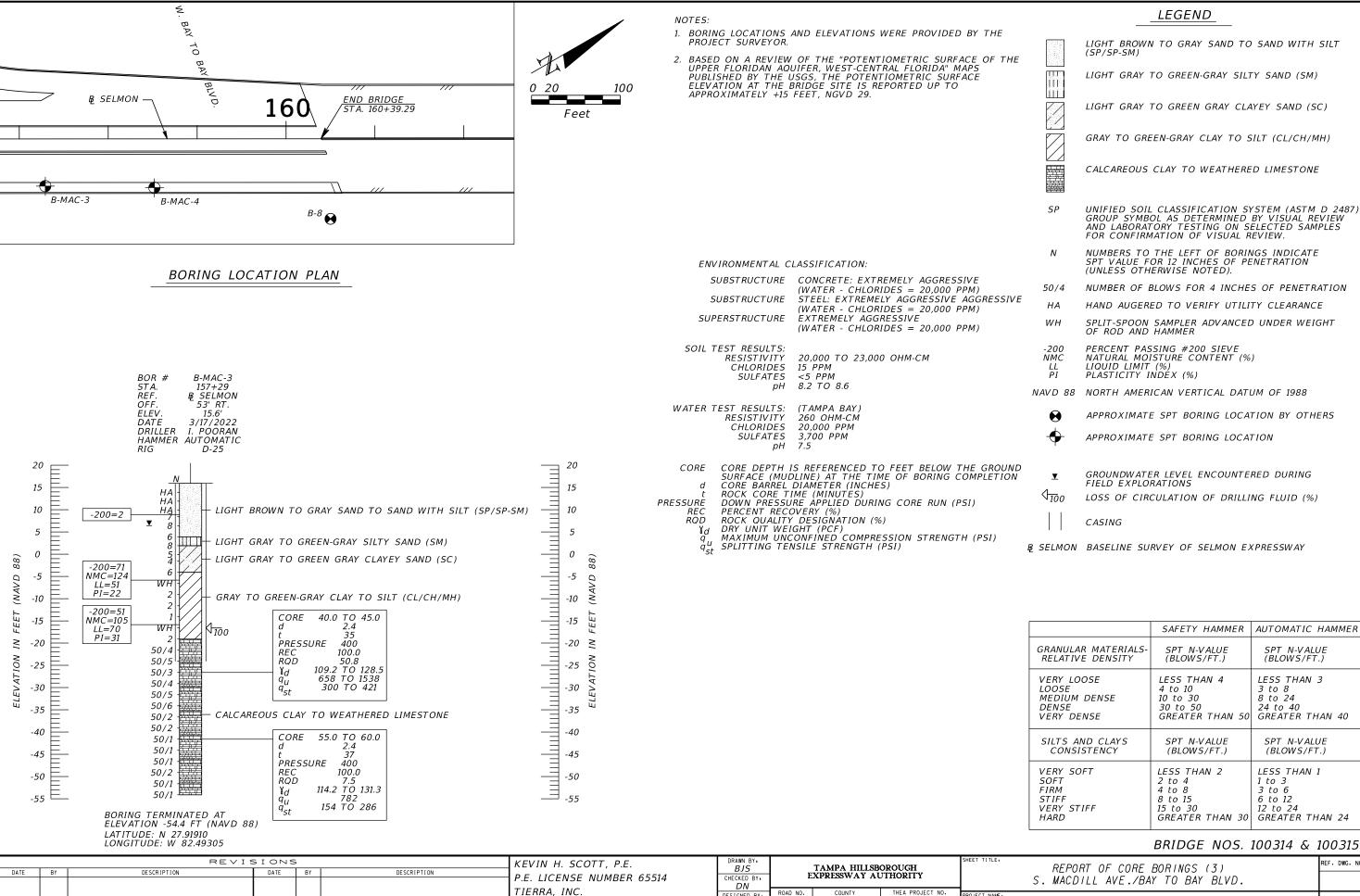
ROAD NO.

SR 618

TIERRA, INC.

7351 TEMPLE TERRACE HIGHWAY

TAMPA, FLORIDA 33637



DESIGNED BY

BJS

CHECKED BY

KHS

SR 618

HILLSBOROUGH

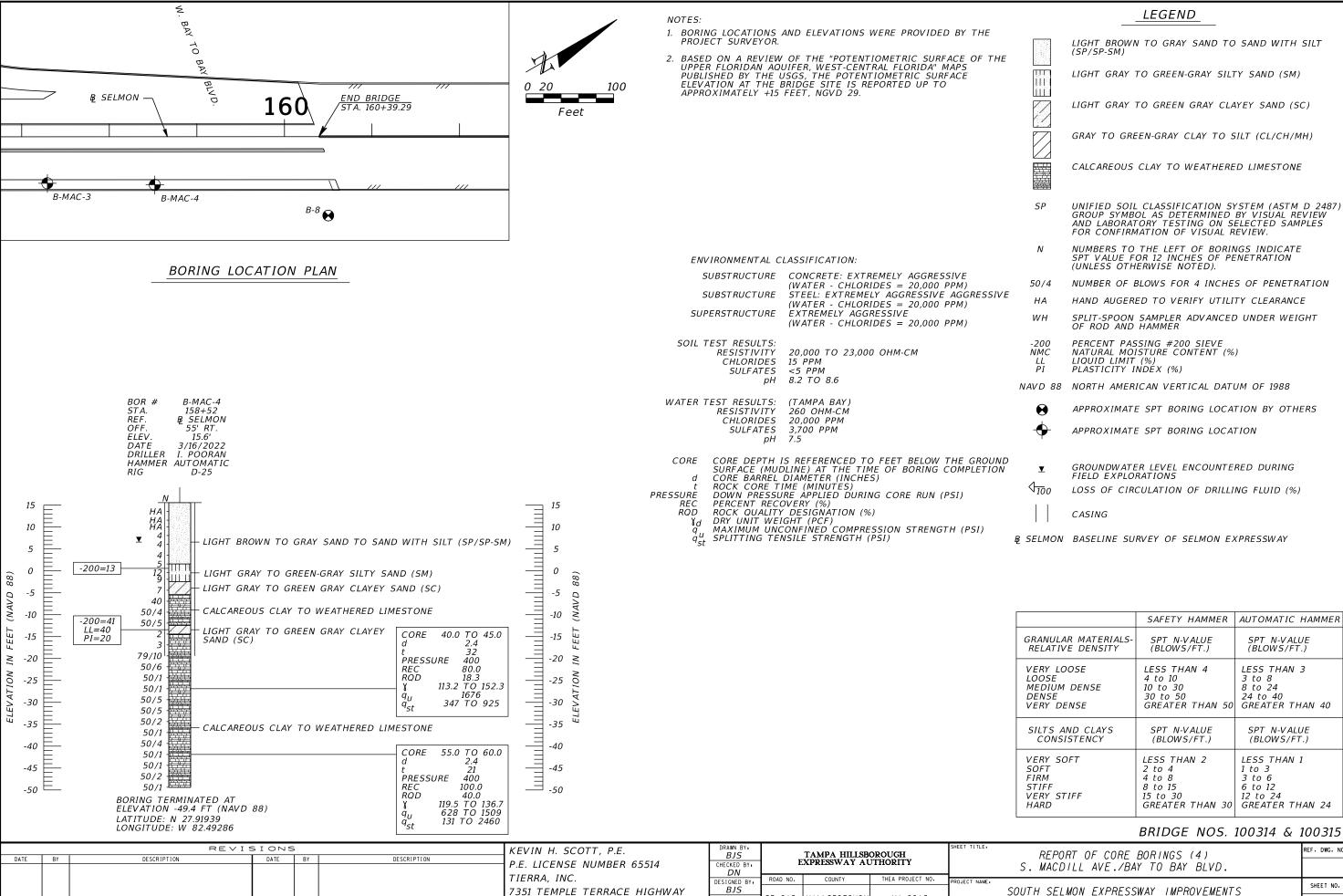
HI-0012

7351 TEMPLE TERRACE HIGHWAY

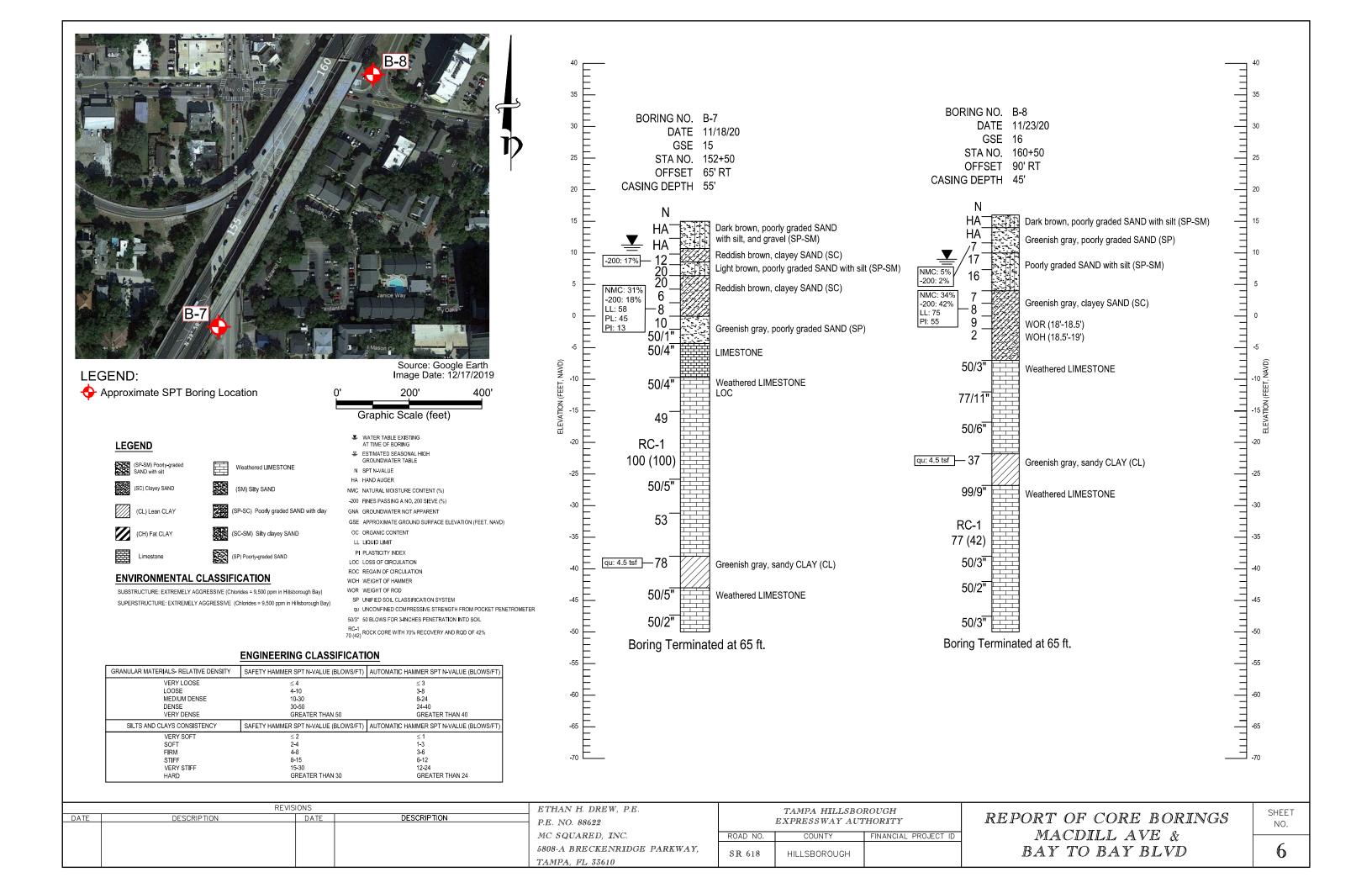
TAMPA, FLORIDA 33637

SOUTH SELMON EXPRESSWAY IMPROVEMENTS

SHEET NO.



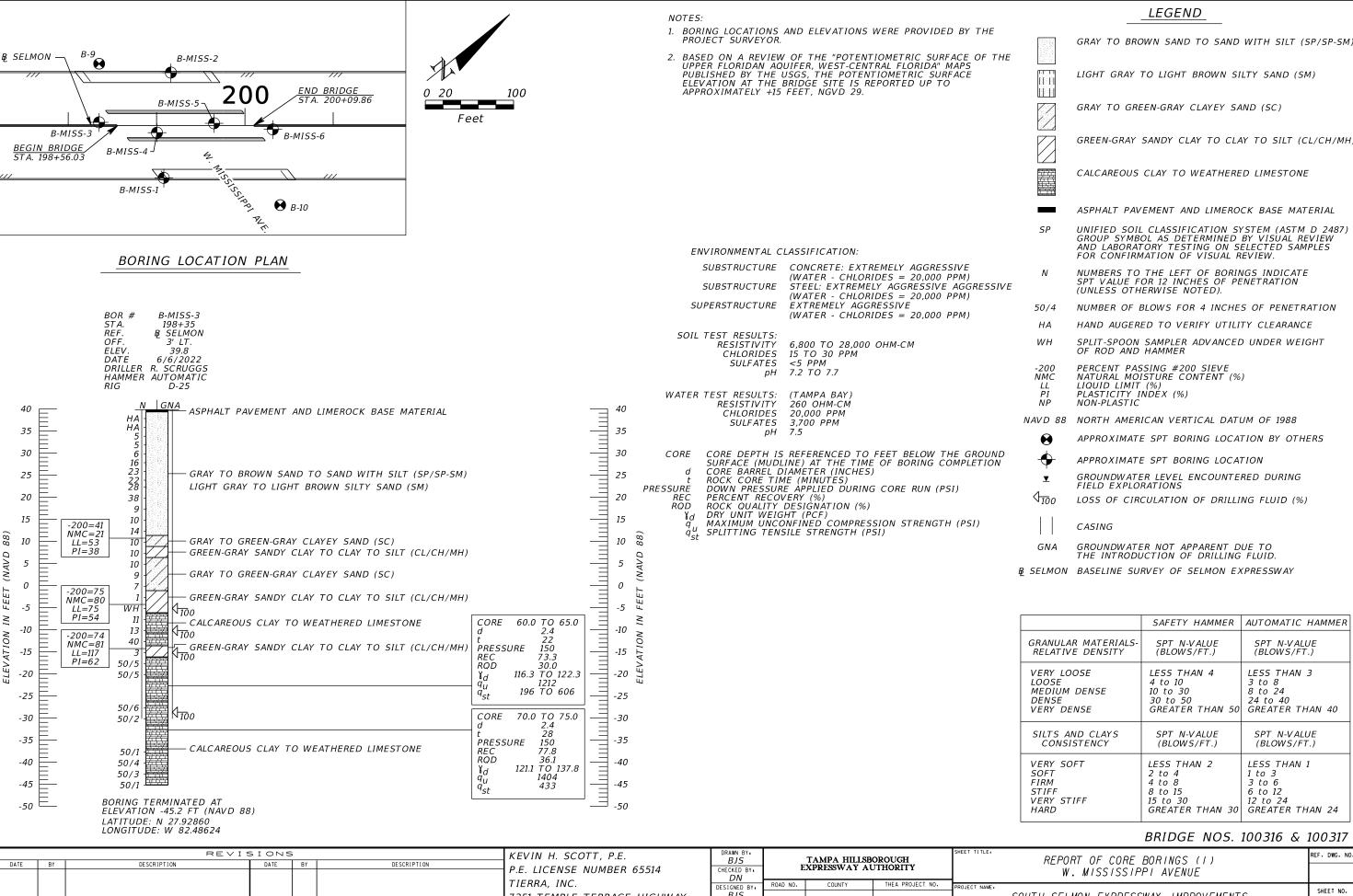
CHECKED BY SR 618 HILLSBOROUGH HI-0012 FROM HIMES AVENUE TO WHITING STREET TAMPA, FLORIDA 33637 KHS



APPENDIX E

Report of Core Borings Sheets – SR 618 over Mississippi Ave.

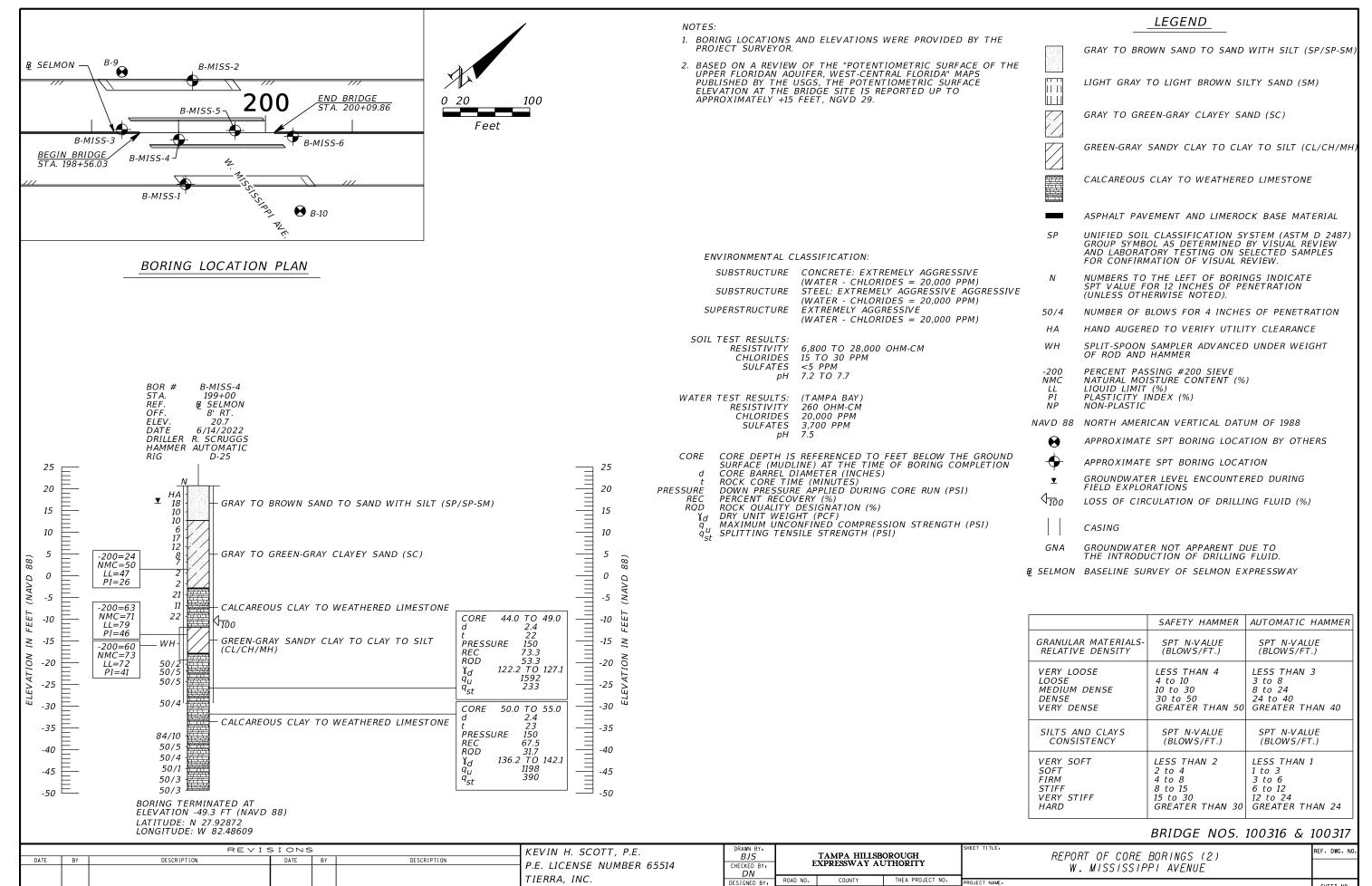
Existing Geotechnical Data – Borings Performed by Others



7/18/2022 12:12:50 PM

J:\65||\202| Files\65||-2|-|69 THEA Master HNTB\TWO 7_South Selmon Drilling\Microstation\Geote

DATE	BY DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514 TIERRA, INC.	BJS CHECKED BY:	TAMPA HILLSB EXPRESSWAY AU	JTHORITY	REPORT OF CORE BORINGS (I) W. MISSISSIPPI AVENUE	REF. DWG. NO.
				7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	BJS CHECKED BY: KHS	ROAD NO. COUNTY SR 618 HILLSBOROUGH	THEA PROJECT NO. HI-0012	SOUTH SELMON EXPRESSWAY IMPROVEMENTS FROM HIMES AVENUE TO WHITING STREET	SHEET NO.



7351 TEMPLE TERRACE HIGHWAY

TAMPA, FLORIDA 33637

BJS

KHS

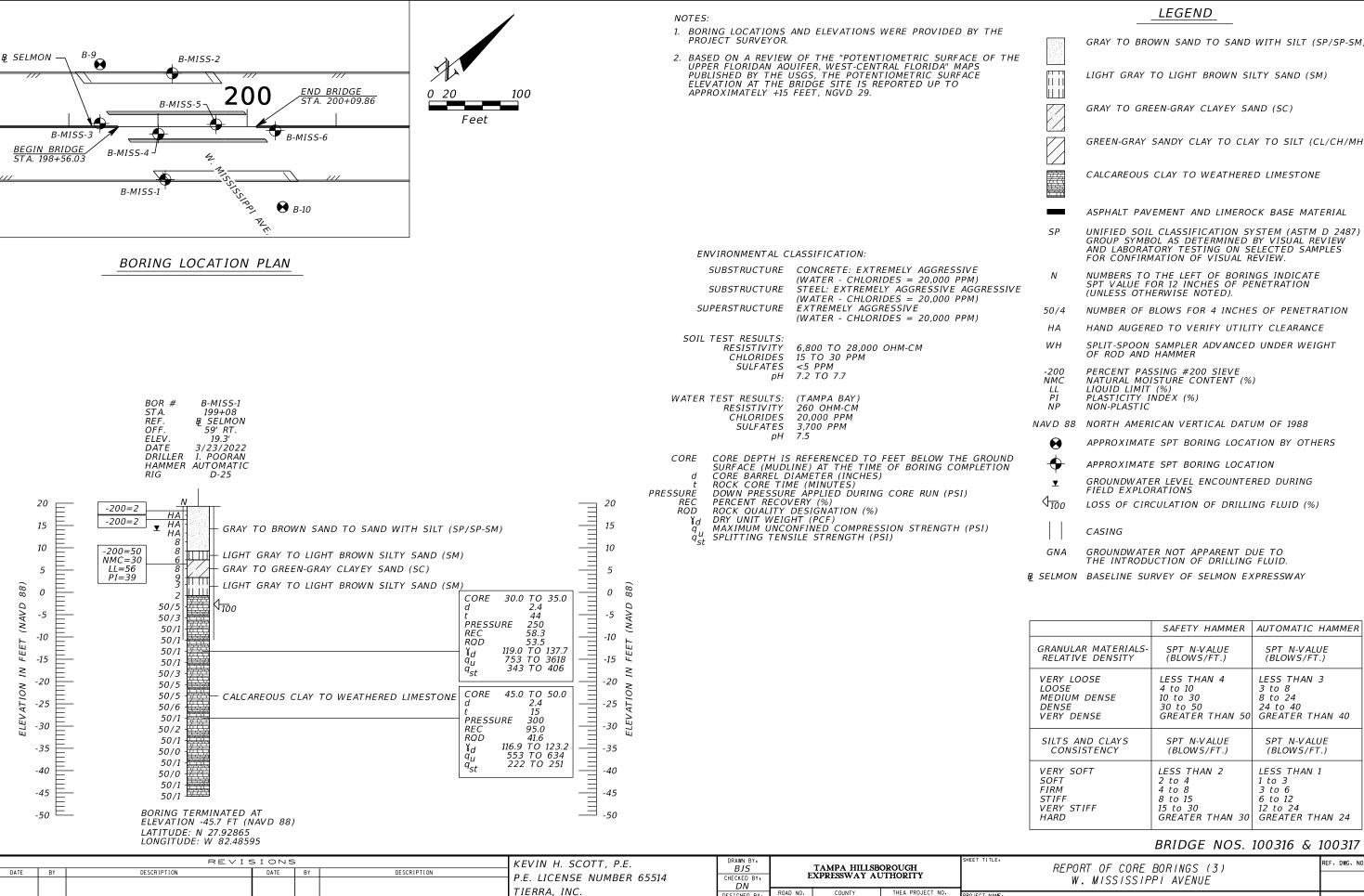
SR 618

HILLSBOROUGI

HI-0012

SHEET NO.

SOUTH SELMON EXPRESSWAY IMPROVEMENTS FROM HIMES AVENUE TO WHITING STREET



ROAD NO.

SR 618

ESIGNED B

BJS

KHS

7351 TEMPLE TERRACE HIGHWAY

TAMPA, FLORIDA 33637

COUNTY

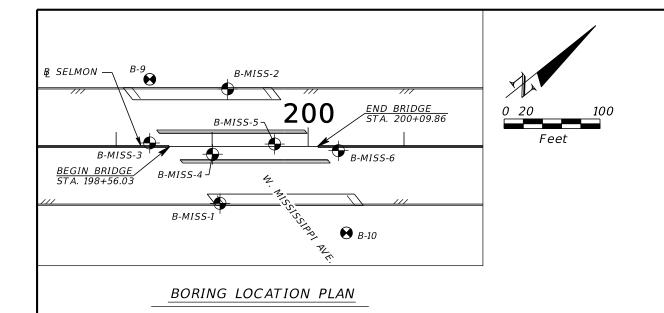
HILLSBOROUGI

THEA PROJECT NO.

HI-0012

SHEET NO.

SOUTH SELMON EXPRESSWAY IMPROVEMENTS FROM HIMES AVENUE TO WHITING STREET



BOR #

B-MISS-2

199+16 STA. ₽ SELMON OFF 60' LT. **ELEV** 19 6' 3/24/2022 DATFDRILLER I. POORAN HAMMER AUTOMATIC 20 15 ▼ HA GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM) 10 NMC=26 LL=55 PI=36 GRAY TO GREEN-GRAY CLAYEY SAND (SC) 5 LIGHT GRAY TO LIGHT BROWN SILTY SAND (SM) 0 √50 50/4 50/3 Q 50/4 50/3 28 79 -10 CALCAREOUS CLAY TO WEATHERED LIMESTONE -15 79 50/6 <u>≥</u> -20 -20 ≥ 50/2 -200 = 3950/2 GRAY TO GREEN-GRAY CLAYEY SAND (SC) LL=45 -25 -25 50/3 50/1 -30 -30 50/2 50/1 -35 -35 50/2 50/1 - CALCAREOUS CLAY TO WEATHERED LIMESTONE -40 50/1 50/1 -45 -45 50/0 50/1 -50 50/1 BORING TERMINATED AT -55 -55 ELEVATION -50.4 FT (NAVD 88) LATITUDE: N 27.92887 LONGITUDE: W 82.48622

NOTES:

- 1. BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.
- 2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29.

ENVIRONMENTAL CLASSIFICATION:

SUBSTRUCTURE CONCRETE: EXTREMELY AGGRESSIVE (WATER - CHLORIDES = 20,000 PPM)
SUBSTRUCTURE STEEL: EXTREMELY AGGRESSIVE AGGRESSIVE (WATER - CHLORIDES = 20,000 PPM)
SUPERSTRUCTURE EXTREMELY AGGRESSIVE (WATER - CHLORIDES = 20,000 PPM)

SOIL TEST RESULTS:
RESISTIVITY 6,800 TO 28,000 OHM-CM
CHLORIDES 15 TO 30 PPM
SULFATES <5 PPM
pH 7.2 TO 7.7

WATER TEST RESULTS: (TAMPA BAY)
RESISTIVITY 260 OHM-CM
CHLORIDES 20,000 PPM
SULFATES 3,700 PPM
pH 7.5

CORE CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION d CORE BARREL DIAMETER (INCHES) t ROCK CORE TIME (MINUTES)

PRESSURE DOWN PRESSURE APPLIED DURING CORE RUN (PSI)

REC PERCENT RECOVERY (%)

ROD ROCK QUALITY DESIGNATION (%)

YOU WILL WEIGHT (PCF)

MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI)

GU SPLITTING TENSILE STRENGTH (PSI)

LEGEND

GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM,

LIGHT GRAY TO LIGHT BROWN SILTY SAND (SM)

GRAY TO GREEN-GRAY CLAYEY SAND (SC)

GREEN-GRAY SANDY CLAY TO CLAY TO SILT (CL/CH/MH,

CALCAREOUS CLAY TO WEATHERED LIMESTONE

ASPHALT PAVEMENT AND LIMEROCK BASE MATERIAL

SP UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.

N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

50/4 NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

HAND AUGERED TO VERIFY UTILITY CLEARANCE

WH SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER

-200 PERCENT PASSING #200 SIEVE NMC NATURAL MOISTURE CONTENT (%) LL LIOUID LIMIT (%) PI PLASTICITY INDEX (%) NP NON-PLASTIC

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION BY OTHERS

APPROXIMATE SPT BORING LOCATION

GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

 $4_{\overline{10}0}$ Loss of circulation of drilling fluid (%)

CASING

1111

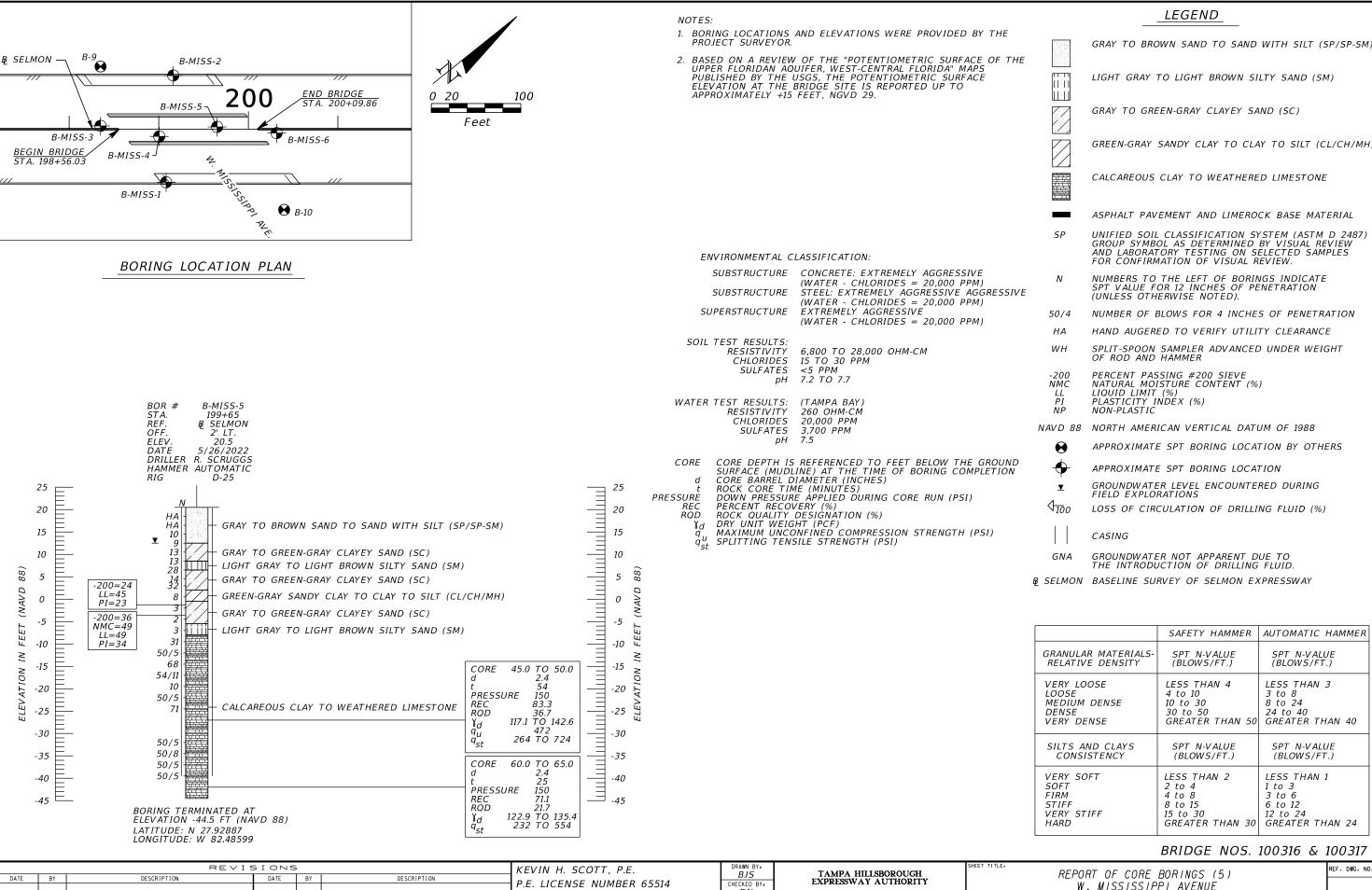
GNA GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID.

B SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

BRIDGE NOS. 100316 & 100317

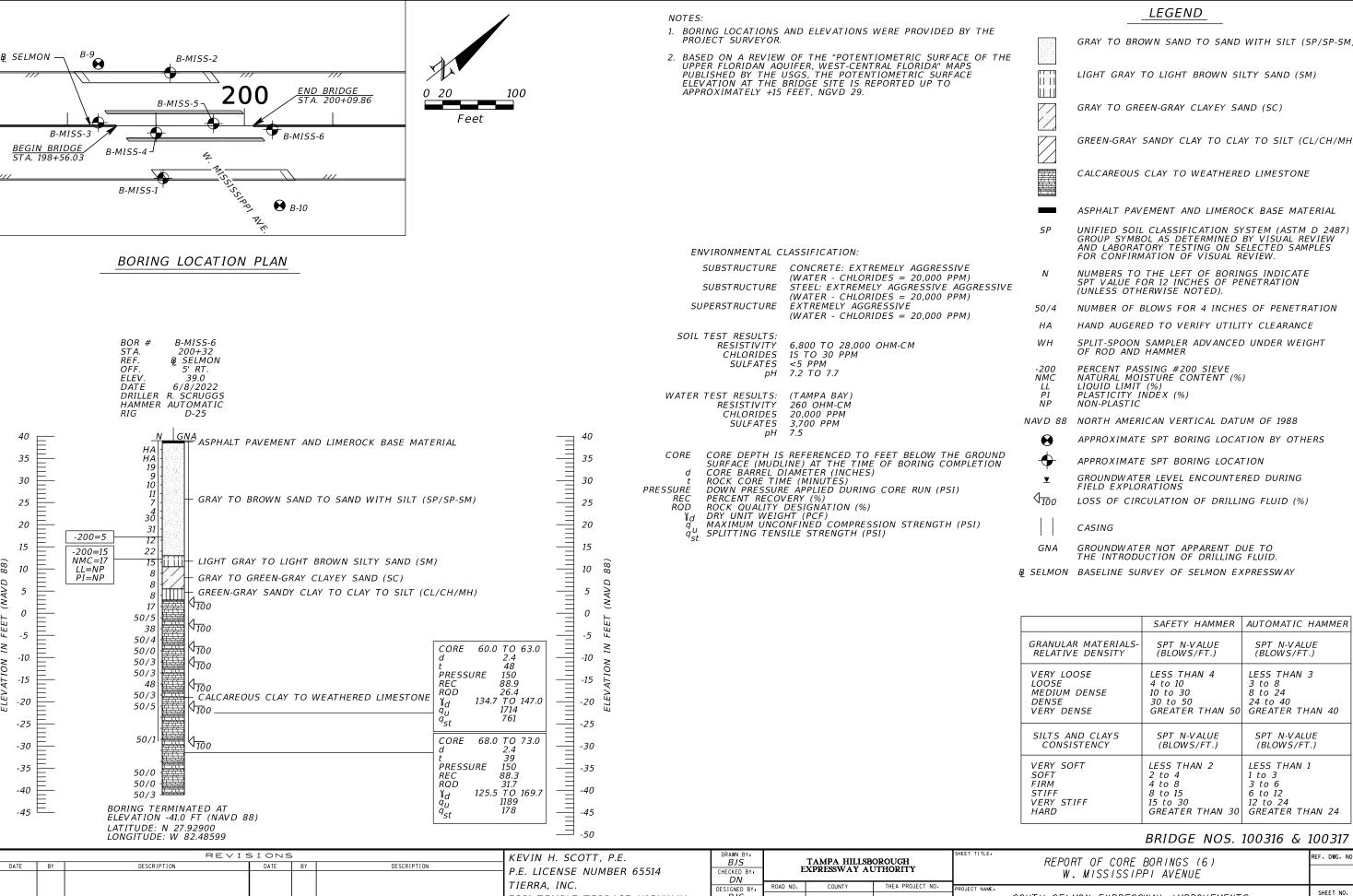
	REVI	SIONS		KEVIN H. SCOTT, P.E.	DRAWN BY:	TAMPA HILLSB	ODOLICH	SHEET TITLE:	REPORT OF CORE BORINGS (4)	REF. DWG. NO
DATE	BY DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	BJS CHECKED BY:	EXPRESSWAY AU		1	W. MISSISSIPPI AVENUE	
				TIERRA, INC.	DN	B010 NO 1 000NTV	THEA PROJECT NO.		W. MISSISSIII I AVLINUL	
				,	DESIGNED BY:	ROAD NO. COUNTY	THEA PROJECT NO.	PROJECT NAME:	COUTU CELHON EVEDECCHAY INDESVEHENTS	SHEET NO.
				7351 TEMPLE TERRACE HIGHWAY		SR 618 HILLSBOROUGH	HI-0012	1	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	
				TAMPA, FLORIDA 33637	CHECKED BY:				FROM HIMES AVENUE TO WHITING STREET	



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	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE	30 to 50	LESS THAN 3 3 to 8 8 to 24 24 to 40 GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

		REVIS	SION	S		KEVIN H. SCOTT, P.E.	DRAWN BY:		TAMPA HILLSB		SHEET TITLE:	DEDORT OF CORE DODINGS (E)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	BJS CHECKED BY:	- I	EXPRESSWAY A			REPORT OF CORE BORINGS (5) W. MISSISSIPPI AVENUE	
						TIERRA. INC.	DN	ROAD NO.	COUNTY	THEA PROJECT NO.		W. WISSISSITT AVENUE	
						7351 TEMPLE TERRACE HIGHWAY	DESIGNED BY:	110/10 1101	555111		PROJECT NAME:	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.
						TAMPA, FLORIDA 33637	CHECKED BY:	SR 618	HILLSBOROUGH	H1-0012		FROM HIMES AVENUE TO WHITING STREET	



7351 TEMPLE TERRACE HIGHWAY

TAMPA, FLORIDA 33637

SOUTH SELMON EXPRESSWAY IMPROVEMENTS

HI-0012

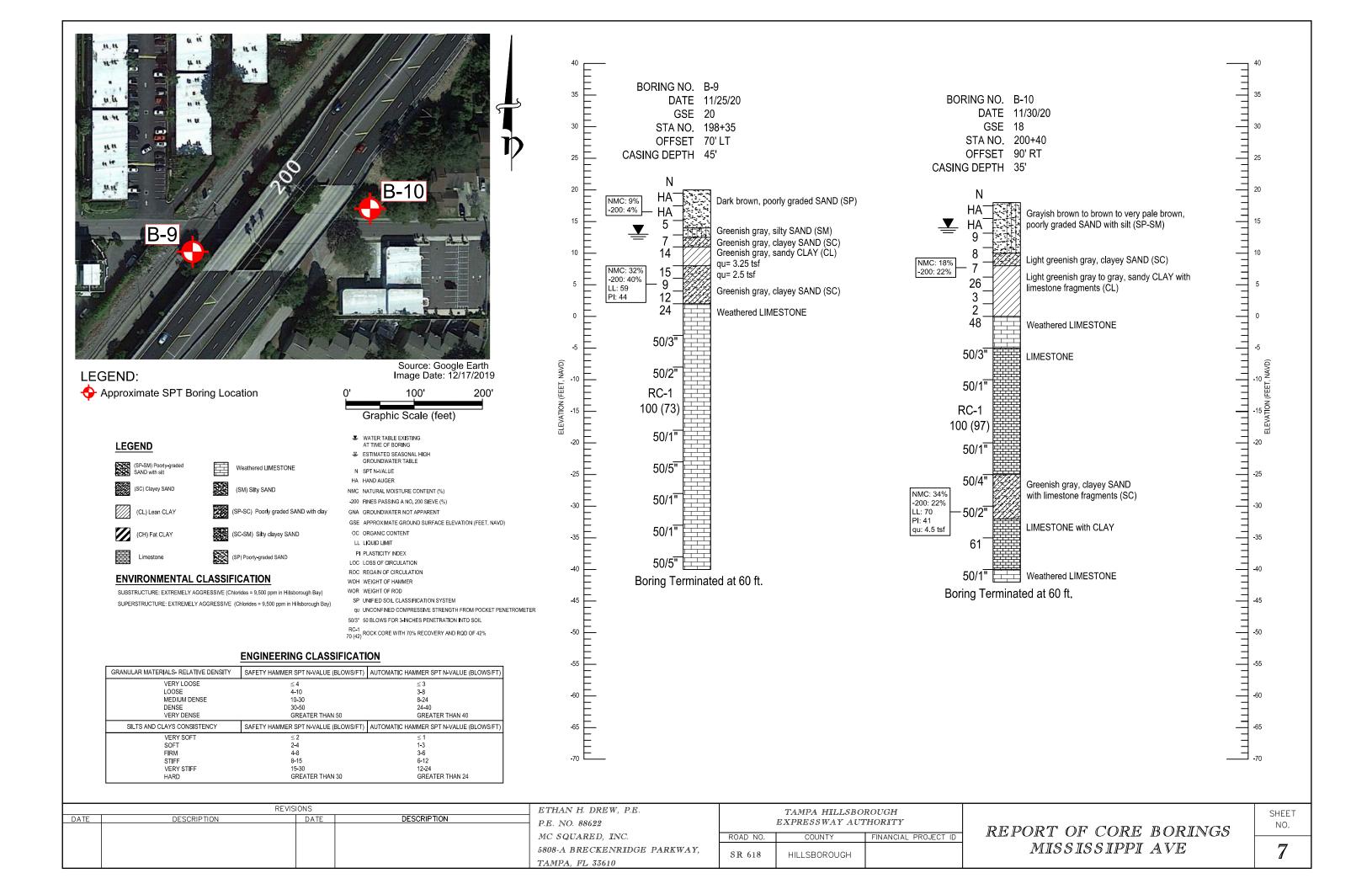
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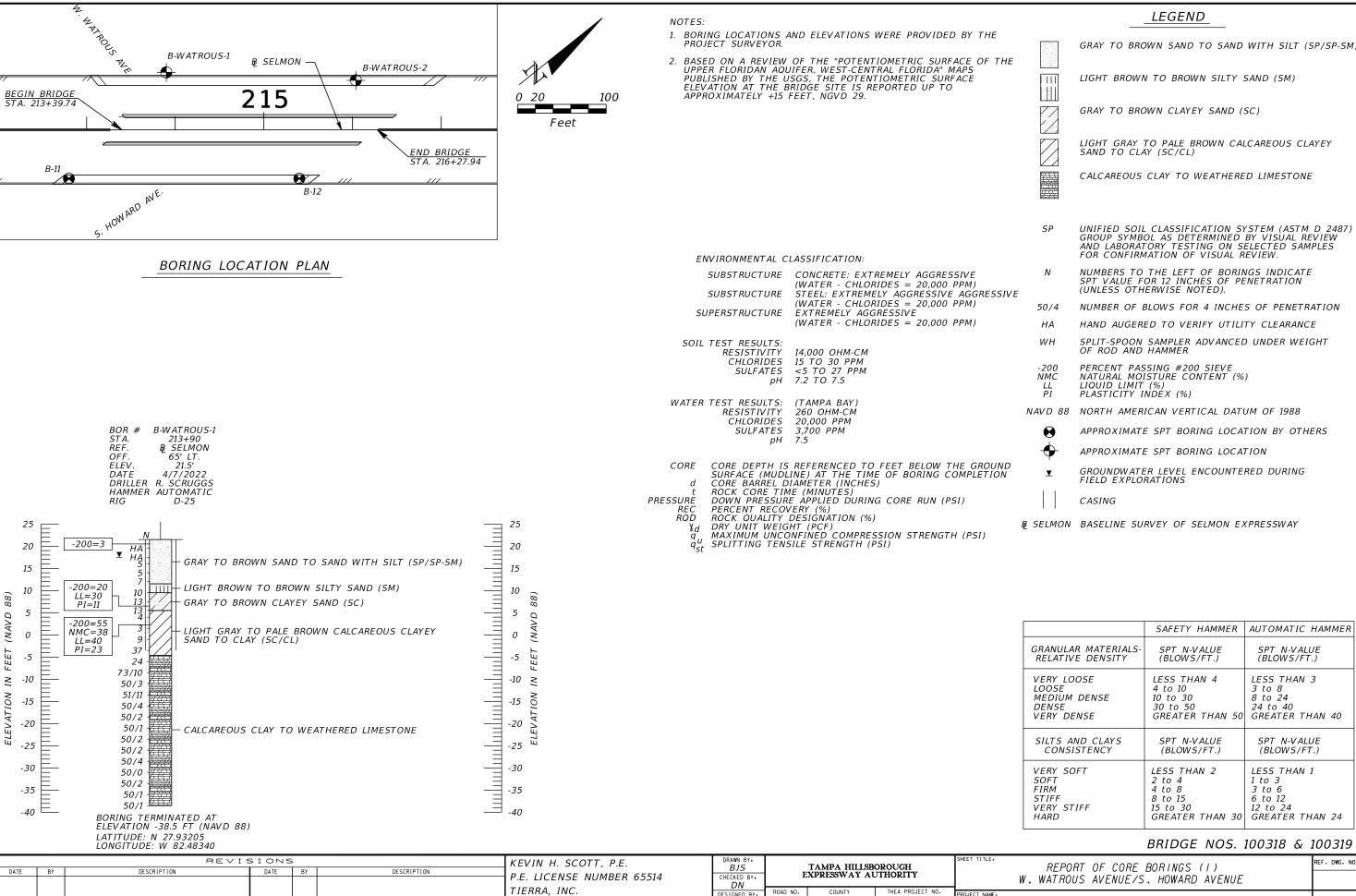
SR 618

FROM HIMES AVENUE TO WHITING STREET



APPENDIX F

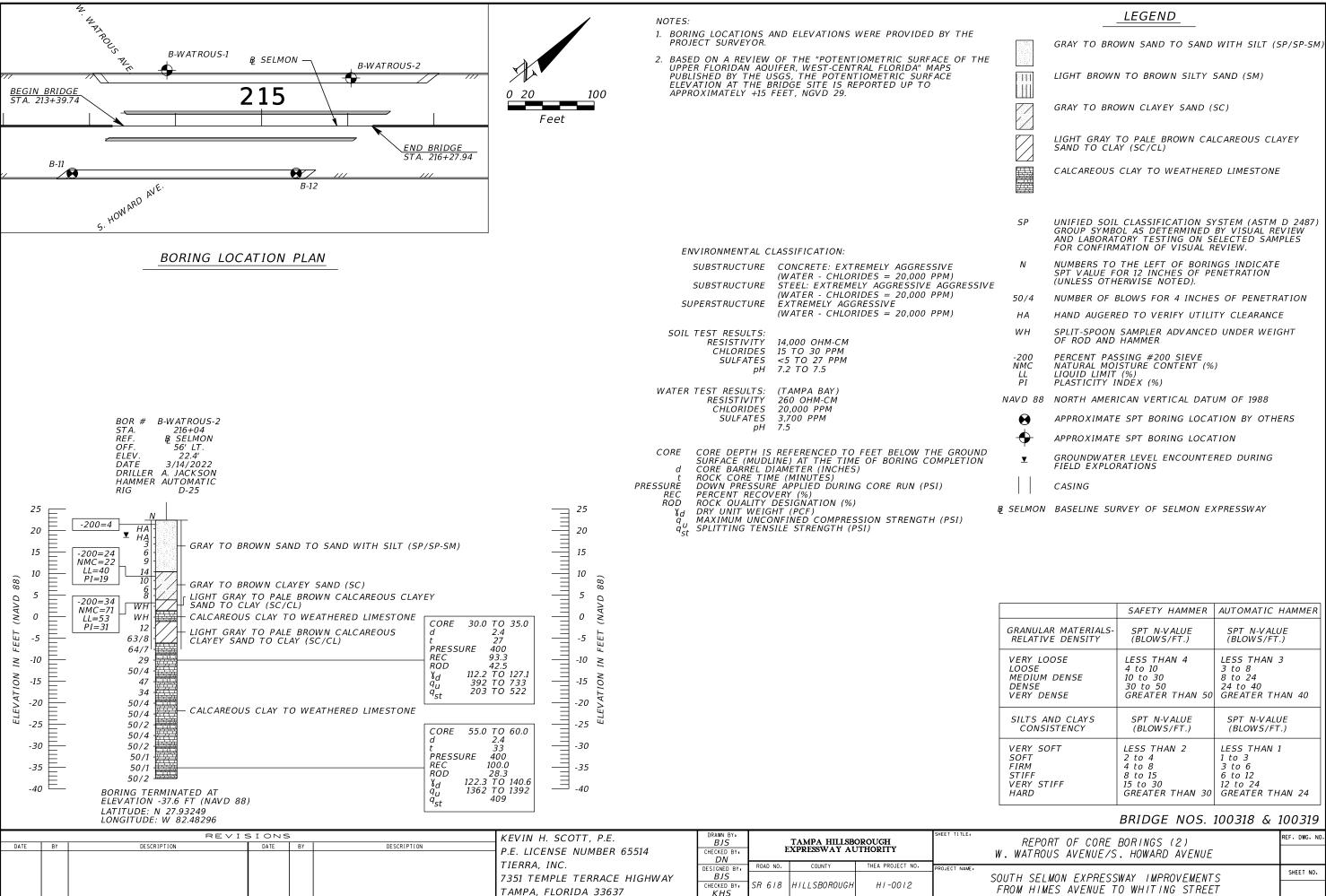
Report of Core Borings Sheets – SR 618 over Howard Ave./Watrous Ave.



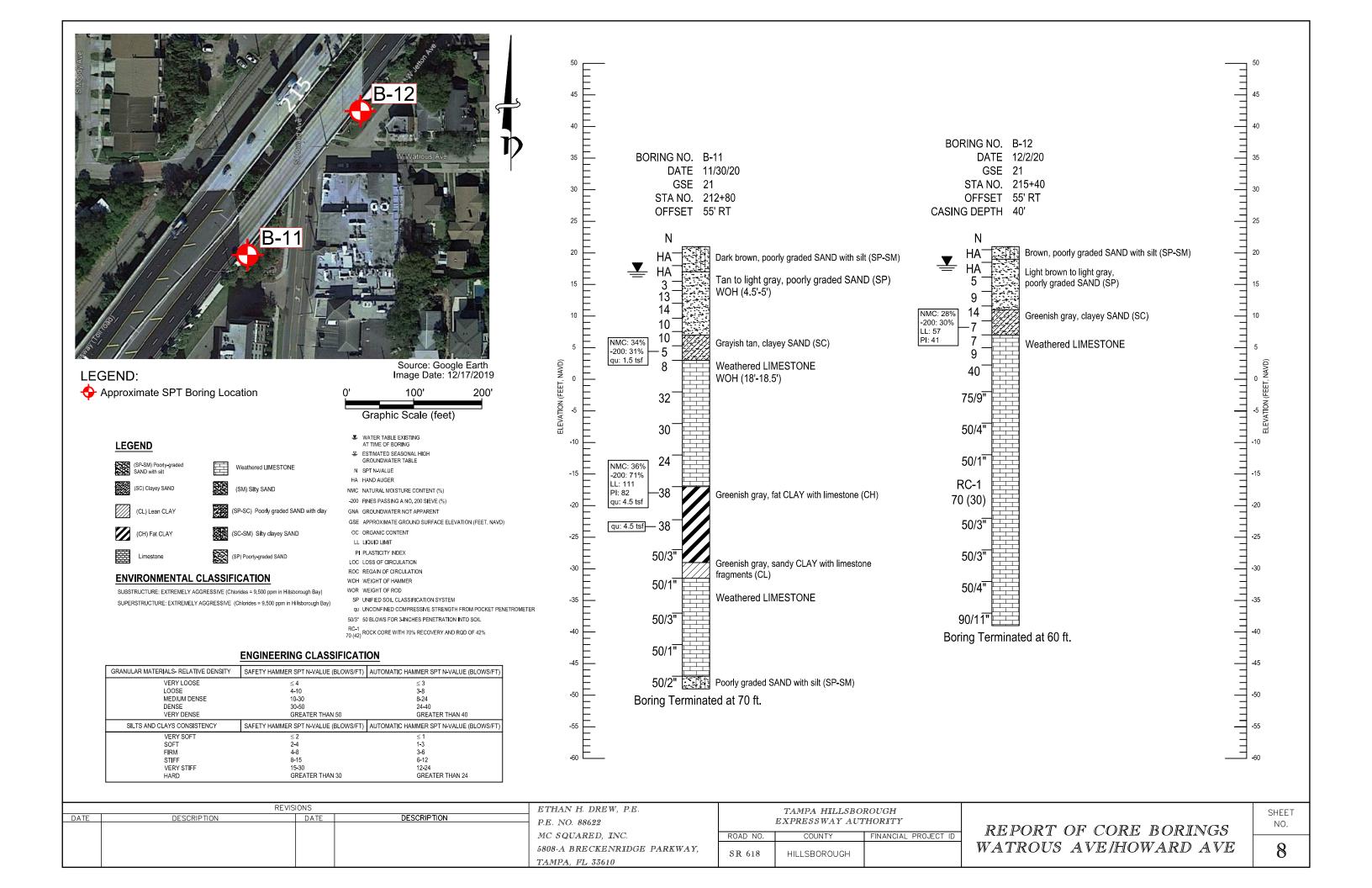
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	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE	4 to 10 10 to 30 30 to 50	LESS THAN 3 3 to 8 8 to 24 24 to 40 GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

DATE	BY DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	BJS CHECKED BY: DN	E	TAMPA HILLSBO XPRESSWAY AU			REPORT OF CORE BORINGS (I) W. WATROUS AVENUE/S. HOWARD AVENUE	REF. DWG. NO.
					TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	DESIGNED BY: BJS CHECKED BY: KHS	SR 6/8	COUNTY HILLSBOROUGH	THEA PROJECT NO.	PROJECT NAME:	SOUTH SELMON EXPRESSWAY IMPROVEMENTS FROM HIMES AVENUE TO WHITING STREET	SHEET NO.

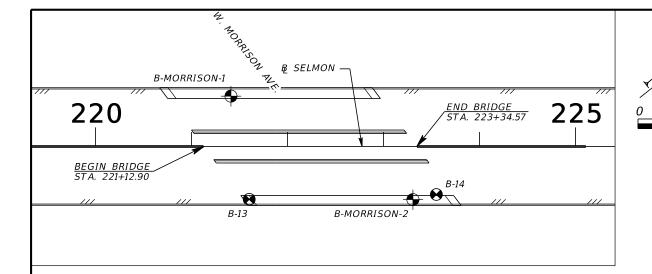


KHS

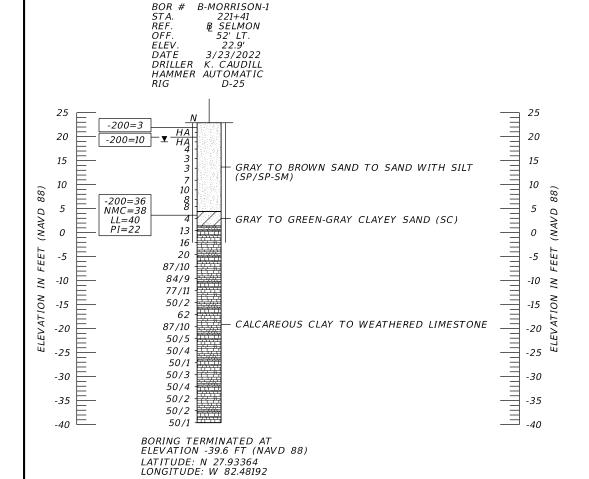


APPENDIX G

Report of Core Borings Sheets – SR 618 over Morrison Ave.



BORING LOCATION PLAN



Feet

- 1. BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.
- 2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29.

LEGEND



GRAY TO BROWN SAND TO SAND WITH SILT



GRAY TO GREEN-GRAY CLAYEY SAND (SC)



DARK GRAY TO GREEN-GRAY SANDY CLAY TO CLAY



HA

CALCAREOUS CLAY TO WEATHERED LIMESTONE

SP UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

50/4 NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

HAND AUGERED TO VERIFY UTILITY CLEARANCE

-200 PERCENT PASSING #200 SIEVE NMC NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) PLASTICITY INDEX (%)

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION BY OTHERS

APPROXIMATE SPT BORING LOCATION

GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

CASING

& SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

SUBSTRUCTURE CONCRETE: EXTREMELY AGGRESSIVE (WATER - CHLORIDES = 20,000 PPM)STEEL: EXTREMELY AGGRESSIVE AGGRESSIVE SUBSTRUCTURE (WATER - CHLORIDES = 20.000 PPM)SUPERSTRUCTURE EXTREMELY AGGRESSIVE (WATER - CHLORIDES = 20,000 PPM)

SOIL TEST RESULTS: RESISTIVITY 10,000 TO 14,000 OHM-CM CHLORIDES 15 TO 30 PPM SULFATES <5 TO 12 PPM 6.9 TO 8.2

WATER TEST RESULTS: (TAMPA BAY) RESISTIVITY 260 OHM-CM CHLORIDES 20,000 PPM SULFATES 3,700 PPM рΗ

ENVIRONMENTAL CLASSIFICATION:

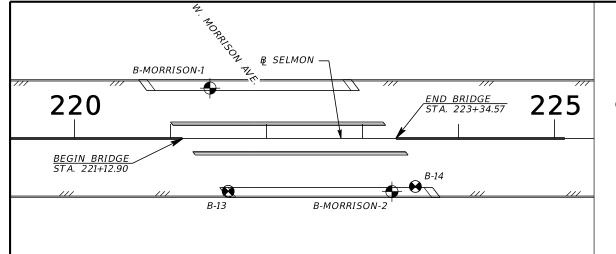
CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION CORE BARREL DIAMETER (INCHES)
ROCK CORE TIME (MINUTES)
DOWN PRESSURE APPLIED DURING CORE RUN (PSI) PRESSURE PERCENT RECOVERY (%) ROCK QUALITY DESIGNATION (%)

DRY UNIT WEIGHT (PCF)
MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI) SPLITTING TENSILE STRENGTH (PSI)

> SAFETY HAMMER AUTOMATIC HAMMER GRANULAR MATERIALS-RELATIVE DENSITY (BLOWS/FT.) (BLOWS/FT.) LESS THAN 4 LESS THAN 3 VERY LOOSE LOOSE 4 to 10 3 to 8 MEDIUM DENSE 10 to 30 8 to 24 DENSE 30 to 50 24 to 40 GREATER THAN 50 GREATER THAN 40 **VERY DENSE** SILTS AND CLAYS SPT N-VALUE SPT N-VALUE CONSISTENCY (BLOWS/FT.) (BLOWS/FT.) LESS THAN 2 VERY SOFT LESS THAN 1 SOFT 2 to 4 1 to 3 4 to 8 FIRM 3 to 6 8 to 15 STIFF 6 to 12 **VERY STIFF** 12 to 24 GREATER THAN 24 15 to 30 GREATER THAN 30 HARD

BRIDGE NOS. 100320 & 100321

	REVI	SIONS		KEVIN H. SCOTT, P.E.	DRAWN BY: BJS	ТА	MPA HILLSBO		SHEET TITLE:	REPORT OF CORE BORINGS (I)	REF. DWG. NO.
DATE	BY DESCRIPTION	DATE BY	DESCRIPTION	DE LIGHTER MUMBER CEELA			RESSWAY AU				
				P.E. LICENSE NUMBER 65514	CHECKED BY	LAFE	KLSSWAI AC	IIIORIII		W. MORRISON AVENUE	
				TIERRA. INC.	DN		******	THE A DROLLEGE NO.	-		
				TIERRA, INC.	DESIGNED BY:	ROAD NO.	COUNTY	THEA PROJECT NO.	PROJECT NAME:		SHEET NO.
				7351 TEMPLE TERRACE HIGHWAY	BJS					SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.
1					CHECKED BY:	SR 618 HIL	LLSBOROUGH	HI-0012	1		
				TAMPA, FLORIDA 33637	KHS	1				FROM HIMES AVENUE TO WHITING STREET	



BORING LOCATION PLAN

GRAY TO BROWN SAND TO SAND WITH SILT

CORE

RQD

CORE

RQD

Yd qu q_{st}

PRESSURE

PRESSURE

30.0 TO 35.0

93.3 66.7

95.5 TO 100.6

47 TO 55

55.0 TO 60

400 100.0

120.3 TO 144.8

539 TO 957 364 TO 457

GRAY TO GREEN-GRAY CLAYEY SAND (SC)

CALCAREOUS CLAY TO WEATHERED

DARK GRAY TO GREEN-GRAY SANDY

CALCAREOUS CLAY TO WEATHERED

CLAY TO CLAY (CL/CH)

B-MORRISON-2

223+31 ₽ SELMON

55' RT.

3/22/2022

D-25

(SP/SP-SM)

LIMESTONE

LIMESTONE

DRILLER K. CAUDILL

HAMMER AUTOMATIC

50/6 32 41

16

19

24 -

36 -33 -

40

58

39 -86/11

50/5

50/4

46

53

50/2

50/2

50/2

50/1

50/3

50/2 50/1

BORING TERMINATED AT ELEVATION -47.8 FT (NAVD 88)

LATITUDE: N 27.93387 LONGITUDE: W 82.48129

STA. REF.

OFF.

-200 = 4

-200=3

-200 = 45

LL=34

NMC=30

LL = 59PI=33

25

20

15

10

5

0 Q.

-5

-10

-20

-25

-30

-35

-40

-45

-50

 \leq -15 ELEV.

Feet

25

20

15

10

5

-5

-10

-15

-20

-25

-30

-35

-40

-45

-50

(88)

Q.

 \geq

- BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.
- 2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29.

LEGEND



GRAY TO BROWN SAND TO SAND WITH SILT



GRAY TO GREEN-GRAY CLAYEY SAND (SC)



DARK GRAY TO GREEN-GRAY SANDY CLAY TO CLAY



HA

CALCAREOUS CLAY TO WEATHERED LIMESTONE

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

50/4 NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

HAND AUGERED TO VERIFY UTILITY CLEARANCE

-200 PERCENT PASSING #200 SIEVE NMC NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) PLASTICITY INDEX (%)

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION BY OTHERS

APPROXIMATE SPT BORING LOCATION

GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

CASING

& SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

ENVIRONMENTAL CLASSIFICATION:

SUBSTRUCTURE CONCRETE: EXTREMELY AGGRESSIVE (WATER - CHLORIDES = 20,000 PPM)STEEL: EXTREMELY AGGRESSIVE AGGRESSIVE SUBSTRUCTURE (WATER - CHLORIDES = 20.000 PPM)SUPERSTRUCTURE EXTREMELY AGGRESSIVE (WATER - CHLORIDES = 20,000 PPM)

SOIL TEST RESULTS: RESISTIVITY 10,000 TO 14,000 OHM-CM CHLORIDES 15 TO 30 PPM SULFATES <5 TO 12 PPM 6.9 TO 8.2

WATER TEST RESULTS: (TAMPA BAY) RESISTIVITY 260 OHM-CM CHLORIDES 20,000 PPM SULFATES 3,700 PPM рΗ

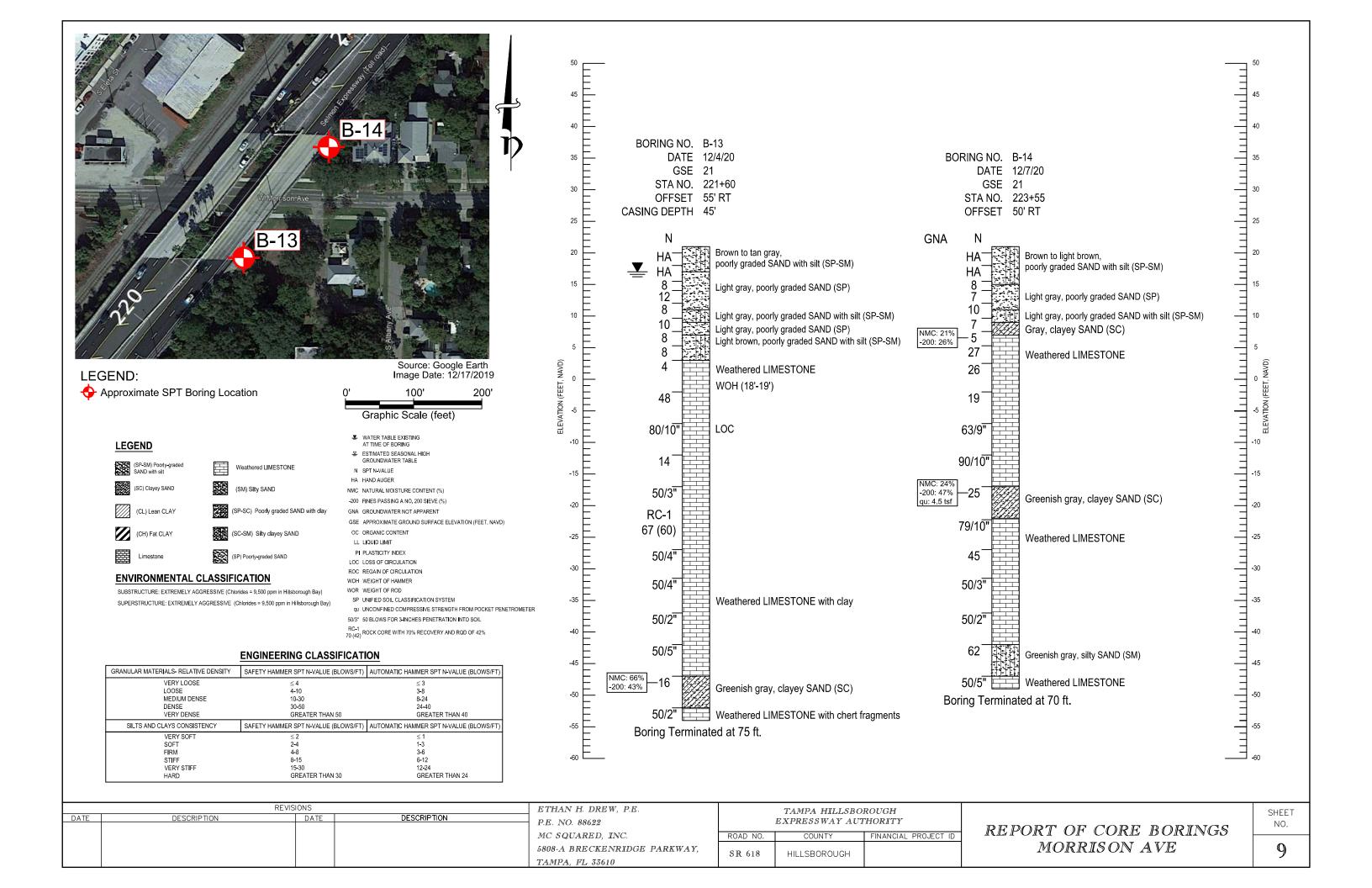
CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION CORE BARREL DIAMETER (INCHES)
ROCK CORE TIME (MINUTES)
DOWN PRESSURE APPLIED DURING CORE RUN (PSI) PRESSURE PERCENT RECOVERY (%) ROCK QUALITY DESIGNATION (%)

DRY UNIT WEIGHT (PCF)
MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI) SPLITTING TENSILE STRENGTH (PSI)

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

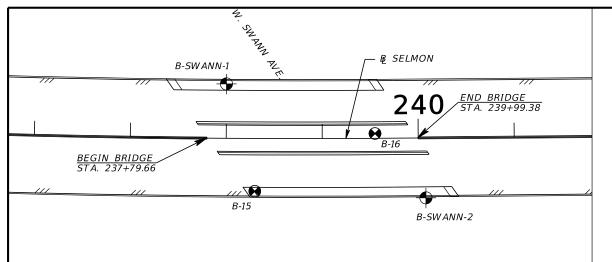
BRIDGE NOS. 100320 & 100321

	REVIS	SIONS		KEVIN H. SCOTT, P.E.	DRAWN BY:		TAMPA HILLSB	ODOLICH	SHEET TITLE:	REPORT OF CORE BORINGS (2)	REF. DWG. NO
DATE BY	DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	BJS CHECKED BY:	1	EXPRESSWAY AU			W. MORRISON AVENUE	
				TIERRA, INC.	DN	ROAD NO	COUNTY	THEA PROJECT NO.	-	W. MOTATION AVENUE	
				7351 TEMPLE TERRACE HIGHWAY	DESIGNED BY:	TIONS NOT			PROJECT NAME:	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.
				TAMPA, FLORIDA 33637	CHECKED BY:	SR 618	HILLSBOROUGH	HI-0012		FROM HIMES AVENUE TO WHITING STREET	



APPENDIX H

Report of Core Borings Sheets – SR 618 over Swann Ave.



BORING LOCATION PLAN

GRAY TO BROWN SAND TO SAND WITH SILT

B-SWANN-1

238+00

57' LT.

3/21/2022

D-25

(SP/SP-SM)

LIMESTONE

100

GRAY SILTY SAND (SM)

BROWN SILT (ML/MH)

CALCAREOUS CLAY TO WEATHERED

DRILLER K. CAUDILL HAMMER AUTOMATIC

10

10

31 36 h

43 -

32

42

50/4

50/2

50/1

50/2

50/4

50/5

50/3

50/1

50/2

50/2

50/1

50/3

50/1

BORING TERMINATED AT

ELEVATION -54.7 FT (NAVD 88) LATITUDE: N 27.93723 LONGITUDE: W 82.47875

SELMON

STA. REF.

-200 = 4

-200=10

-200=41NMC = 26

LL=NP

PI=NP

-200=97

NMC=31

LL=48 PI=13

25

20

15

10

5

0

-5

-10

-15

-20

-25

-30

-35

-40

-45

-50

-55

88)

≥

- BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.
- 2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29.

LEGEND

GRAY TO BROWN SAND TO SAND WITH SILT

GRAY SILTY SAND (SM)

ПП

WH

GRAY TO BROWN CLAYEY SAND (SC)

BROWN SILT (ML/MH)

CALCAREOUS CLAY TO WEATHERED LIMESTONE

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES SP FOR CONFIRMATION OF VISUAL REVIEW.

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION 50/4

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT

HAND AUGERED TO VERIFY UTILITY CLEARANCE

OF ROD AND HAMMER

PERCENT PASSING #200 SIEVE NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) -200 NMC IIPLASTICITY INDÉX (%)

NP NON-PLASTIC

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION BY OTHERS

APPROXIMATE SPT BORING LOCATION

GROUNDWATER LEVEL ENCOUNTERED DURING FIFID EXPLORATIONS

√100 LOSS OF CIRCULATION OF DRILLING FLUID (%)

CASING

B SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

SAFETY HAMMER AUTOMATIC HAMMER GRANULAR MATERIALS-RELATIVE DENSITY (BLOWS/FT.) (BLOWS/FT.) LESS THAN 3 LESS THAN 4 VERY LOOSE LOOSE 4 to 10 3 to 8 MEDIUM DENSE 10 to 30 8 to 24 DENSE 30 to 50 24 to 40 GREATER THAN 50 GREATER THAN 40 **VERY DENSE** SILTS AND CLAYS SPT N-VALUE SPT N-VALUE CONSISTENCY (BLOWS/FT.) (BLOWS/FT.) VERY SOFT LESS THAN 2 LESS THAN 1 2 to 4 SOFT 1 to 3 4 to 8 FIRM 3 to 6 8 to 15 STIFF 6 to 12 **VERY STIFF** 12 to 24 GREATER THAN 24 15 to 30 GREATER THAN 30 HARD

BRIDGE NOS. 100322 & 100323

	REVIS	SIONS		KEVIN H. SCOTT, P.E.	DRAWN BY: BJS	TAMPA HILLSB	OPOLICH	SHEET TITLE:	REPORT OF CORE BORINGS (I)	REF. DWG. NO.
DATE	BY DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	CHECKED BY:	EXPRESSWAY A			W. SWANN AVENUE	
				TIERRA, INC.	DESIGNED BY:	ROAD NO. COUNTY	THEA PROJECT NO.	PROJECT NAME:		SHEET NO.
				7351 TEMPLE TERRACE HIGHWAY	CHECKED BY:	SR 618 HILLSBOROUGH	HI-0012		SOUTH SELMON EXPRESSWAY IMPROVEMENTS	51121 1101
				TAMPA, FLORIDA 33637	KHS	I STORY THE ENGLANCE OF THE STORY TH	111 0012		FROM HIMES AVENUE TO WHITING STREET	

ENVIRONMENTAL CLASSIFICATION:

SUBSTRUCTURE CONCRETE: SLIGHTLY AGGRESSIVE SUBSTRUCTURE STEEL: MODERATELY AGGRESSIVE (RESISTIVITY = 4,800 OHM-CM)*SUPERSTRUCTURE* SLIGHTLY AGGRESSIVE

SOIL TEST RESULTS:
RESISTIVITY 4,800 TO 28,000 OHM-CM CHLORIDES 45 TO 90 PPM
SULFATES <5 TO 171 PPM pH 6.8 TO 7.1

CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION CORE BARREL DIAMETER (INCHES) ROCK CORE TIME (MINUTES) DOWN PRESSURE APPLIED DURING CORE RUN (PSI) PRESSURE PERCENT RECOVERY (%) ROCK QUALITY DESIGNATION (%) DRY UNIT WEIGHT (PCF) RQDMAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI) SPLITTING TENSILE STRENGTH (PSI)

Feet

25

20

15

10

5

0

-5

-10

-15

-20

-25

-30

-35

-40

-45

-50

-55

45.0 TO 50.0

300 28.3

124.7 TO 138.1

869 TO 1127

482

60.0 TO 65.0

250

102.7 TO 137.3

197 TO 924

CORE

RQD

 q_{st}

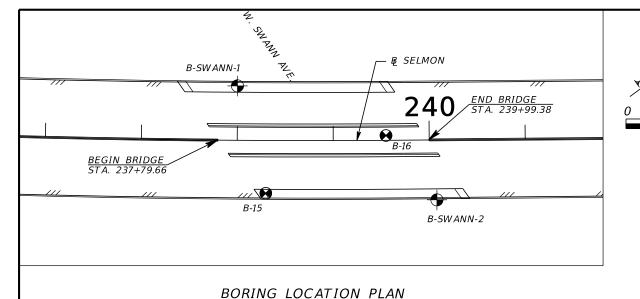
CORE

RQD

Yd qu q_{st}

PRESSURE

PRESSURE



Feet

20

15

10

0

-5

-10

-15

-20

-25 2

-30

-35

-40

-45

-50

-55

-60

-65

 \Box

- BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.
- 2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29.

LEGEND

GRAY TO BROWN SAND TO SAND WITH SILT

GRAY SILTY SAND (SM)

ПП

WH

GRAY TO BROWN CLAYEY SAND (SC)

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES SP FOR CONFIRMATION OF VISUAL REVIEW.

SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER

PERCENT PASSING #200 SIEVE NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) NMC IIPLASTICITY INDÉX (%)

APPROXIMATE SPT BORING LOCATION BY OTHERS

APPROXIMATE SPT BORING LOCATION

LOSS OF CIRCULATION OF DRILLING FLUID (%)

CASING

B SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

SAFETY HAMMER AUTOMATIC HAMMER GRANULAR MATERIALS-RELATIVE DENSITY (BLOWS/FT.) (BLOWS/FT.) VERY LOOSE IESS THAN 4 LESS THAN 3 4 to 10 LOOSE 3 to 8 10 to 30 8 to 24 MEDIUM DENSE DENSE 30 to 50 24 to 40 GREATER THAN 50 GREATER THAN 40 **VERY DENSE** SPT N-VALUE SILTS AND CLAYS SPT N-VALUE CONSISTENCY (BLOWS/FT.) (BLOWS/FT.) VERY SOFT LESS THAN 2 LESS THAN 1 SOFT 2 to 4 1 to 3 FIRM 4 to 8 3 to 6 STIFF 8 to 15 6 to 12 15 to 30 12 to 24 GREATER THAN 30 GREATER THAN 24 VERY STIFF HARD

BRIDGE NOS. 100322 & 100323

REVISIONS KEVIN H. SCOTT, P.E. REF. DWG. NO TAMPA HILLSBOROUGH REPORT OF CORE BORINGS (2) BJS DATE DESCRIPTION DATE DESCRIPTION EXPRESSWAY AUTHORITY P.E. LICENSE NUMBER 65514 CHECKED BY W. SWANN AVENUE DN TIERRA, INC. COUNTY THEA PROJECT NO. ESIGNED B SHEET NO. 7351 TEMPLE TERRACE HIGHWAY BJS SOUTH SELMON EXPRESSWAY IMPROVEMENTS SR 618 HILLSBOROUGI HI-0012 FROM HIMES AVENUE TO WHITING STREET TAMPA, FLORIDA 33637 KHS

ENVIRONMENTAL CLASSIFICATION:

SUBSTRUCTURE CONCRETE: SLIGHTLY AGGRESSIVE SUBSTRUCTURE STEEL: MODERATELY AGGRESSIVE (RESISTIVITY = 4,800 OHM-CM)*SUPERSTRUCTURE* SLIGHTLY AGGRESSIVE

SOIL TEST RESULTS: 4,800 TO 28,000 OHM-CM 45 TO 90 PPM <5 TO 171 PPM RESISTIVITY CHLORIDES SULFATES pH 6.8 TO 7.1

CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION CORE BARREL DIAMETER (INCHES) ROCK CORE TIME (MINUTES) DOWN PRESSURE APPLIED DURING CORE RUN (PSI) PRESSURE PERCENT RECOVERY (%) ROCK QUALITY DESIGNATION (%)
DRY UNIT WEIGHT (PCF)
MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI) RQD٧d SPLITTING TENSILE STRENGTH (PSI)

B-SWANN-2 240+08 REF. ₽ SELMON OFF62' RT. 18.7 FIFV 4/14/2022 DATE DRILLER R. SCRUGGS HAMMER AUTOMATIC D-25 -200=7

-200=30 NMC=29

LL=24

PI=3

NMC=4011 = 36

PI=18

WH

WH

WH

18

15

50/4

50/3

50/1

95/11

50/2

50/4

91/10

50/4

50/4

50/2

50/1

-200=84

NMC = 95

LL=82

PI=32

20

15

10

5

0

-5

-10 Q

-15

-20

-30

-35

-40

-45

-50

-55

-60

-65

≥ -25 GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)

WH IN GRAY SILTY SAND (SM) BROWN SILT (ML/MH)

GRAY TO BROWN CLAYEY SAND (SC)

CALCAREOUS CLAY TO WEATHERED LIMESTONE

50/3 50/2 BORING TERMINATED AT ELEVATION -63.8 FT (NAVD 88)

LATITUDE: N 27.93750 LONGITUDE: W 82.47808

BROWN SILT (ML/MH) CALCAREOUS CLAY TO WEATHERED LIMESTONE

NUMBERS TO THE LEFT OF BORINGS INDICATE

50/4 NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

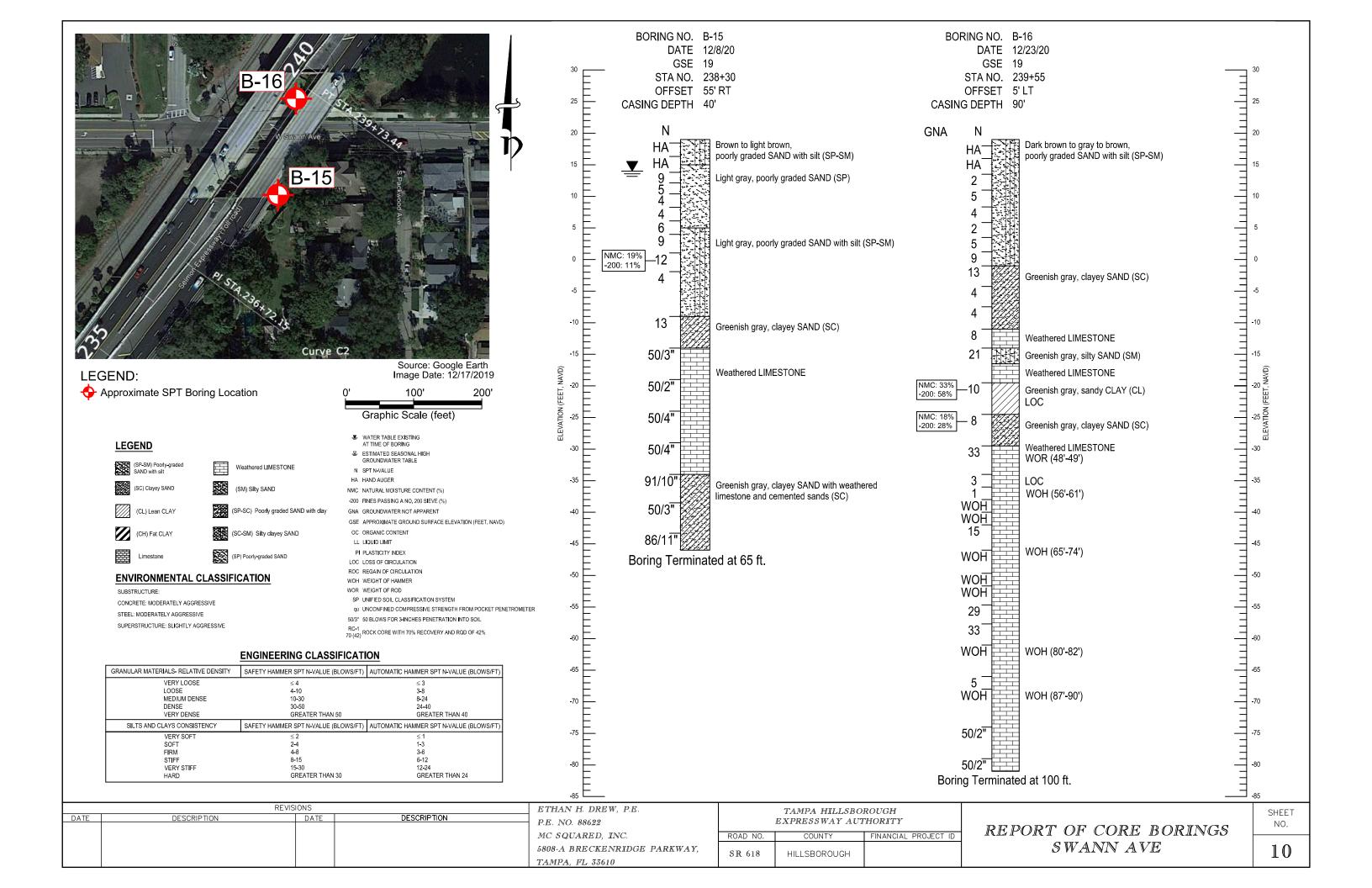
HAND AUGERED TO VERIFY UTILITY CLEARANCE

-200

NON-PLASTIC NP

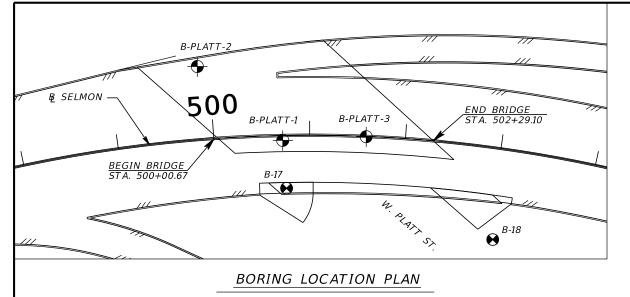
NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD 88

GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS



APPENDIX I

Report of Core Borings Sheets – SR 618 over Platt St.



GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)

BLUE-GRAY CALCAREOUS CLAYEY SAND (SC)

- CALCAREOUS CLAY TO WEATHERED LIMESTONE

B-PLATT-2

499+89

B SELMON

3/22/2022

D-25

DRILLER A. JACKSON HAMMER AUTOMATIC

STA. REF.

ELEV

DATE

HA

19 86/7

50/2

50/4

50/1 50/2

50/2 85/9

50/1 50/1

50/1 50/1

50/1 50/1

50/1 50/4

BORING TERMINATED AT ELEVATION -44.4 FT (NAVD 88)

LATITUDE: N 27.94172

-200=4

-200=38

LL=42 PI=24

25

20

15

10

0

-5

-10

-15

-20

-25

-30

-35

-40

-45

0 20 Feet

BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.

ENVIRONMENTAL CLASSIFICATION:

рН

SOIL TEST RESULTS: RESISTIVITY

2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29.

SUBSTRUCTURE CONCRETE: SLIGHTLY AGGRESSIVE

SUBSTRUCTURE STEEL: SLIGHTLY AGGRESSIVE

18,000 OHM-CM

8.1 TO 8.8

SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

CHLORIDES 15 PPM SULFATES 36 TO 45 PPM

LEGEND

GRAY TO BROWN SAND TO SAND WITH SILT

GRAY SILTY SAND (SM)

ШШ

PI

BLUE-GRAY CALCAREOUS CLAYEY SAND (SC)

BLUE-GRAY TO GREEN-GRAY SANDY CLAY TO CLAY

BLUE-GRAY TO GREEN-GRAY SANDY SILT TO CALCAREOUS SILT (ML/MH)

CALCAREOUS CLAY TO WEATHERED LIMESTONE

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION 50/4

HAHAND AUGERED TO VERIFY UTILITY CLEARANCE

-200 PERCENT PASSING #200 SIEVE NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%)

PLASTICITY INDEX (%)

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION BY OTHERS

APPROXIMATE SPT BORING LOCATION

GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

CASING

B SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION CORE BARREL DIAMETER (INCHES)

ROCK CORE TIME (MINUTES)
DOWN PRESSURE APPLIED DURING CORE RUN (PSI)

PRESSURE PERCENT RECOVERY (%) ROCK QUALITY DESIGNATION (%)

DRY UNIT WEIGHT (PCF)
MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI)
SPLITTING TENSILE STRENGTH (PSI) \d q qu st

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

BRIDGE NOS. 100324 & 100325

	LONGITUDE: W 82.47516								BRIDGE NOS. 100324 &	100325
	REV	ISIONS		KEVIN H. SCOTT, P.E.	DRAWN BY: BJS	TAMPA HILLSE	ODOLICH	SHEET TITLE:	REPORT OF CORE BORINGS (I)	REF. DWG. NO
DATE	BY DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	CHECKED BY:	EXPRESSWAY A	UTHORITY		W. PLATT STREET	
				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY	DESIGNED BY:	ROAD NO. COUNTY	THEA PROJECT NO.	PROJECT NAME:	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.
				TAMPA, FLORIDA 33637	CHECKED BY:	SR 618 HILLSBOROUGH	HI-0012		FROM HIMES AVENUE TO WHITING STREET	

25 20 15 10 5 0 -1 -1 -1 -1 -1 -1

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-5 -10

-20

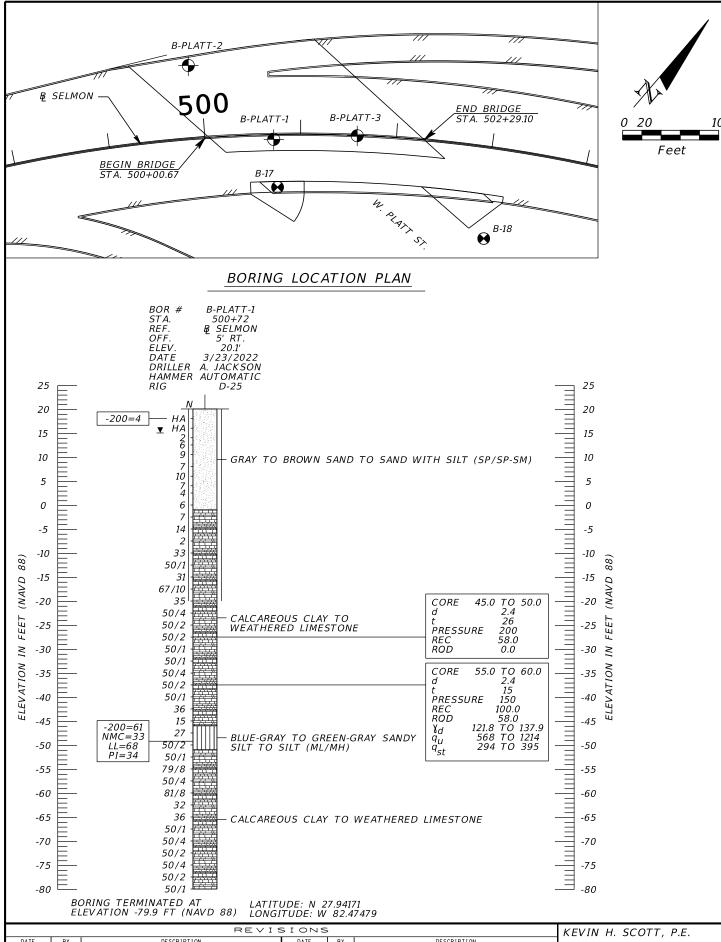
-25

-30

-35

-45

l:\65||\202|Files\65||-2|-|69 THEA Master HNTB\TWO 7_South Selmon Drilling\Mic|



MOTE

1. BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.

ENVIRONMENTAL CLASSIFICATION:

рΗ

SOIL TEST RESULTS:

RESISTIVITY

2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29.

SUBSTRUCTURE CONCRETE: SLIGHTLY AGGRESSIVE

SUBSTRUCTURE STEEL: SLIGHTLY AGGRESSIVE

18,000 OHM-CM

8.1 TO 8.8

SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

CHLORIDES 15 PPM SULFATES 36 TO 45 PPM

LEGEND

GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)

GRAY SILTY SAND (SM)

ШШ

PI

BLUE-GRAY CALCAREOUS CLAYEY SAND (SC)

BLUE-GRAY TO GREEN-GRAY SANDY CLAY TO CLAY (CL/CH)

BLUE-GRAY TO GREEN-GRAY SANDY SILT TO CALCAREOUS SILT (ML/MH)

CALCAREOUS CLAY TO WEATHERED LIMESTONE

SP UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.

N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

50/4 NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

HAND AUGERED TO VERIFY UTILITY CLEARANCE

-200 PERCENT PASSING #200 SIEVE NMC NATURAL MOISTURE CONTENT (%) LL LIQUID LIMIT (%)

PLASTICITY INDEX (%

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION BY OTHERS

APPROXIMATE SPT BORING LOCATION

▼ GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

CASING

BE SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

CORE CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION d CORE BARREL DIAMETER (INCHES)

G CORE BARREL DIAMETER (INCHES) † ROCK CORE TIME (MINUTES) E DOWN PRESSURE APPLIED DURING CORE RUN (PSI)

PRESSURE DOWN PRESSURE APPLIED DURING CORE RUN (PSI, REC PERCENT RECOVERY (%)
RQD ROCK QUALITY DESIGNATION (%)

DRY UNIT WEIGHT (PCF)

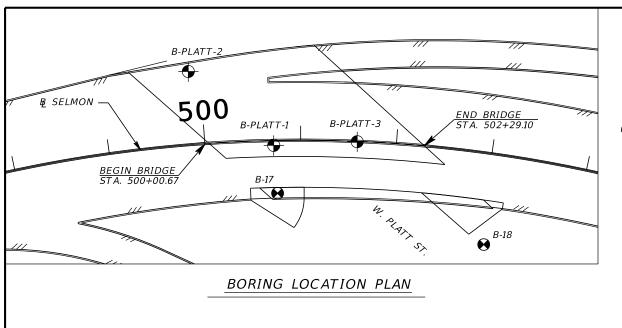
MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI)

q MAXIMUM UNCONFINED COMPRESSION STRENGTH (PS $q_{st}^{\it u}$ SPLITTING TENSILE STRENGTH (PSI)

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

BRIDGE NOS. 100324 & 100325

	REVI	SIONS		KEVIN H. SCOTT, P.E.	DRAWN BY:	TAMPA HILLSB	ODOLICH	SHEET TITLE:	REPORT OF CORE BORINGS (2)	REF. DWG. NO.
DATE	BY DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	BJS CHECKED BY:	EXPRESSWAY AU			W. PLATT STREET	
				TIERRA. INC.	CHECKED BY:	ROAD NO. COUNTY	THEA PROJECT NO.		W. ILAII SINLLI	
				7351 TEMPLE TERRACE HIGHWAY	DESIGNED BY:	ROAD NO. COUNTY	THEA TROJECT NO.	PROJECT NAME:	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.
						SR 618 HILLSBOROUGH	HI-0012		FROM HIMES AVENUE TO WHITING STREET	
				TAMPA, FLORIDA 33637	CHECKED BY:				FRUM NIMES AVENUE IU WHILLING SIREEL	



B-PLATT-3

501+59

₽ SELMON

0' RT.

20.2'

3/21/2022

D-25

GRAY SILTY SAND (SM)

CALCAREOUS CLAY TO

WEATHERED LIMESTONE

-GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)

CORE

RQD

CORE

RFC

RQD

PRESSURE

 V_d

PRESSURE

35.0 TO 40.0

37.5 125.8 TO 130.5

453 TO 512

302 TO 387

50.0 TO 53.0

250

330

0.0

HAMMER AUTOMATIC

10

52/10

50/3

50/4

50/2

50/4

50/4 50/1

50/2

50/2

50/2

50/2

50/4

50/2

50/4

50/1

BORING TERMINATED AT ELEVATION -44.8 FT (NAVD 88)

LATITUDE: N 27.94188

LONGITUDE: W 82.47459

-200=43

-200=29

REF.

OFF

RIG

25

20

15

10

5

0

-5

-10

-15

-20

-25

-30

-35

-40

-45

2

ELEV.

0 20 Feet

25

20

1.5

10

5

0

-10

-20

-25

-30

-35

-40

-45

BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.

ENVIRONMENTAL CLASSIFICATION:

CHLORIDES 15 PPM

рΗ

SOIL TEST RESULTS: RESISTIVITY

2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29.

SUBSTRUCTURE CONCRETE: SLIGHTLY AGGRESSIVE

SUBSTRUCTURE STEEL: SLIGHTLY AGGRESSIVE

18,000 OHM-CM

SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

SULFATES 36 TO 45 PPM

8.1 TO 8.8

LEGEND

GRAY TO BROWN SAND TO SAND WITH SILT

GRAY SILTY SAND (SM)

BLUE-GRAY CALCAREOUS CLAYEY SAND (SC)

BLUE-GRAY TO GREEN-GRAY SANDY CLAY TO CLAY

BLUE-GRAY TO GREEN-GRAY SANDY SILT TO CALCAREOUS SILT (ML/MH)

CALCAREOUS CLAY TO WEATHERED LIMESTONE

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.

(UNLESS OTHERWISE NOTED).

NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION 50/4

HAHAND AUGERED TO VERIFY UTILITY CLEARANCE

-200 PERCENT PASSING #200 SIEVE NATURAL MOISTURE CONTENT (%)

LIQUID LIMIT (%) PI

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION BY OTHERS

FIELD EXPLORATIONS

CASING

ROCK CORE TIME (MINUTES)
DOWN PRESSURE APPLIED DURING CORE RUN (PSI) PRESSURE PERCENT RECOVERY (%)

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

	REVI	SIONS		KEVIN H. SCOTT, P.E.	DRAWN BY:	TAMPA HILLSB	ODOLICH	SHEET TITLE:	REPORT OF CORE BORINGS (3)	REF. DWG. N
DATE	BY DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	BJS CHECKED BY:	EXPRESSWAY AU			W. PLATT STREET	
				TIERRA, INC.	D N		TUE 1 DD0 1507 110		W. FLAIT STREET	
				· · · · · · · · · · · · · · · · · · ·	DESIGNED BY:	ROAD NO. COUNTY	THEA PROJECT NO.	PROJECT NAME:	COUTU CELHON EVADECONAV LUDBOVENENTO	SHEET NO.
				7351 TEMPLE TERRACE HIGHWAY		SR 618 HILLSBOROUGH	HI-0012	1	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	
				TAMPA, FLORIDA 33637	CHECKED BY:	I SIN ONO INTEESBONOOON	111 0012	1	FROM HIMES AVENUE TO WHITING STREET	

BRIDGE NOS. 100324 & 100325

I:\65||\202| Files\65||-2|-|69 THEA Master HNTB\TWO 7_South Selmon Drilling\Mic

1111

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION

PLASTICITY INDEX (%)

APPROXIMATE SPT BORING LOCATION

GROUNDWATER LEVEL ENCOUNTERED DURING

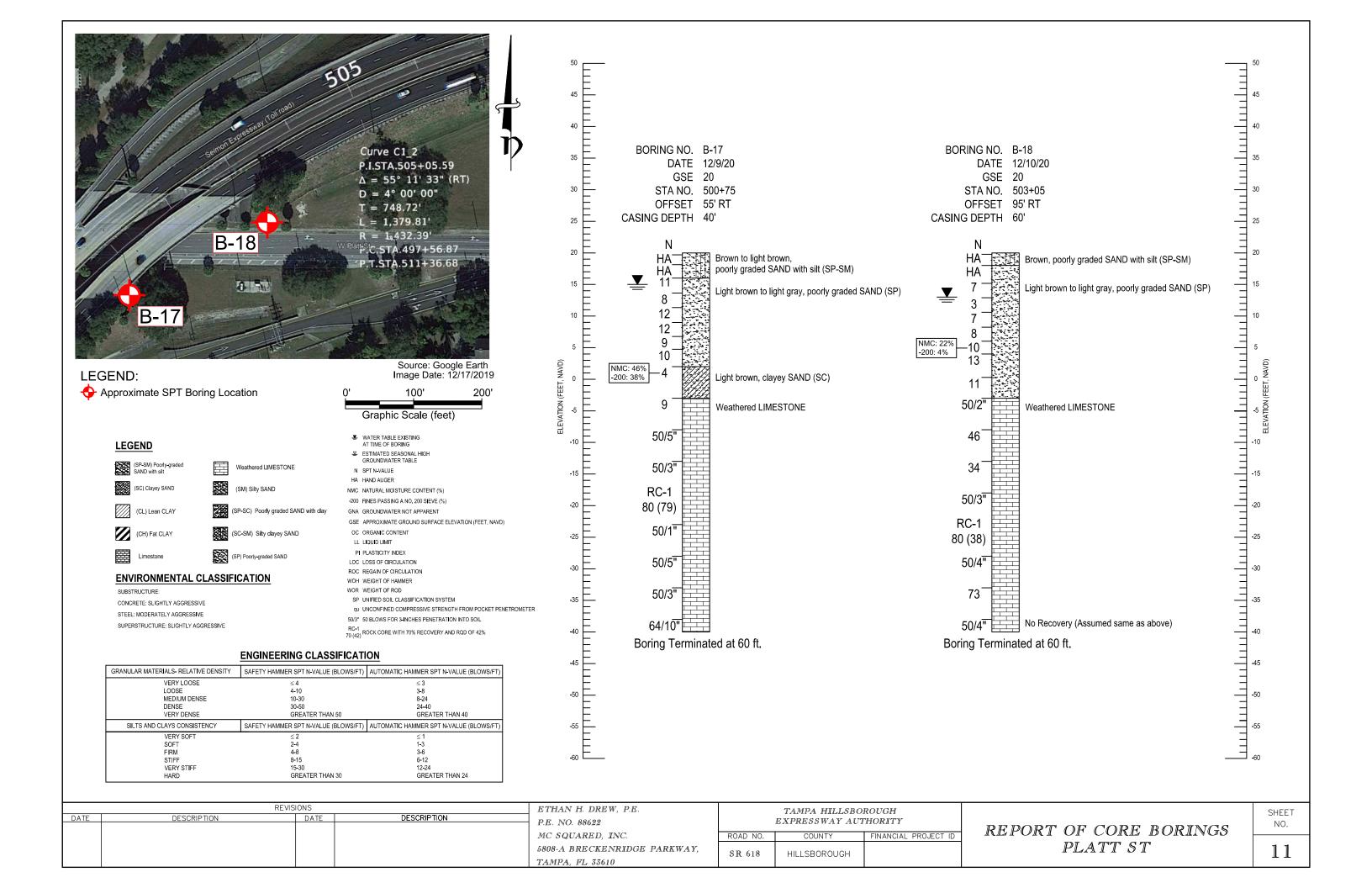
BE SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION CORE BARREL DIAMETER (INCHES)

ROCK QUALITY DESIGNATION (%)

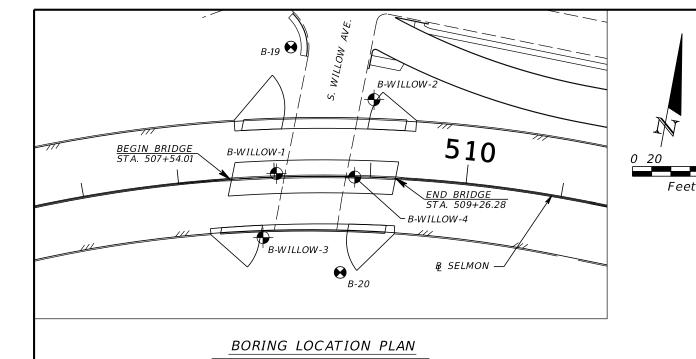
DRY UNIT WEIGHT (PCF)
MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI)
SPLITTING TENSILE STRENGTH (PSI)

RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24



APPENDIX J

Report of Core Borings Sheets – SR 618 over Willow Ave.



GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)

GRAY TO GREEN-GRAY CLAYEY SAND (SC)

CALCAREOUS CLAY TO WEATHERED

LIMESTONE

CLAY TO CLAY (CL/CH)

B-WILLOW-3

₽ SELMON

62' RT.

16.5 3/15/2022

D-25

DRILLER A. JACKSON

HAMMER AUTOMATIC

REF

OFF

20

15

10

5

0

-5

-10

-15

-20

-25

-30

-35

-40

-45

-50

-55

-60

 \geq

ELEV

DATE

ΗĄ

12 -

22

62/10

50/1

50/2

67/11

59/10

50/4

50/3 40

50/4

83/8

50/4 78/8

50/2

31 50/2

BORING TERMINATED AT ELEVATION -56.0 FT (NAVD 88)

LATITUDE: N 27.94246 LONGITUDE: W 82.47282

13

- 1. BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.
- 2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29.

SUBSTRUCTURE CONCRETE: SLIGHTLY AGGRESSIVE

7,100 OHM-CM

CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND

SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION CORE BARREL DIAMETER (INCHES) ROCK CORE TIME (MINUTES)

DOWN PRESSURE APPLIED DURING CORE RUN (PSI)

DRY UNIT WEIGHT (PCF)
MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI)

<5 PPM 7.0

STEEL: MODERATELY AGGRESSIVE (pH = 7.0)

ENVIRONMENTAL CLASSIFICATION:

CHLORIDES 15 PPM

рΗ

SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

SUBSTRUCTURE

RESISTIVITY

SULFATES

PERCENT RECOVERY (%)

ROCK QUALITY DESIGNATION (%)

SPLITTING TENSILE STRENGTH (PSI)

SOIL TEST RESULTS:

PRESSURE

RQD

LEGEND

GRAY TO BROWN SAND TO SAND WITH SILT

LIGHT GRAY TO LIGHT BROWN SILTY SAND (SM)

GRAY TO GREEN-GRAY CLAYEY SAND (SC)

DARK GRAY TO GREEN-GRAY TO BROWN SANDY CLAY TO CLAY (CL/CH)

CALCAREOUS CLAY TO WEATHERED LIMESTONE

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES SP

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION

NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

HAND AUGERED TO VERIFY UTILITY CLEARANCE HA

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER

OF ROD

NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%)

NP NON-PLASTIC

NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION BY OTHERS

GROUNDWATER LEVEL ENCOUNTERED DURING

LOSS OF CIRCULATION OF DRILLING FLUID (%)

GNAGROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID.

B SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

BRIDGE NOS. 100326 & 100327

REF. DWG. NO

SHEET NO.

REVISIONS KEVIN H. SCOTT, P.E. DATE DESCRIPTION DATE DESCRIPTION P.E. LICENSE NUMBER 65514 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637

GRAY TO GREEN-GRAY SILTY-CLAYEY TO CLAYEY SAND (SC-SM/SC)

DARK GRAY TO GREEN-GRAY TO BROWN SANDY

-20

-25

-30

-35

-40

-45

-50

-55

-60

CORE

RFC

ROD

 y_d

CORE

RQD

 V_d

PRESSURE

PRESSURE

35.0 TO 40.0

250

85.0 0.0

301 TO 739

45.0 TO 50.0

83.3

450

92.1 TO 111.6

51 TO 97

TAMPA HILLSBOROUGH BJS EXPRESSWAY AUTHORITY CHECKED BY DN ROAD NO. COUNTY THEA PROJECT NO. DESIGNED BY BJS SR 618 HILLSBOROUGH HI-0012 KHS

REPORT OF CORE BORINGS (1)

S. WILLOW AVENUE SOUTH SELMON EXPRESSWAY IMPROVEMENTS FROM HIMES AVENUE TO WHITING STREET

ПП

FOR CONFIRMATION OF VISUAL REVIEW.

(UNLESS OTHERWISE NOTED).

50/4

WH

WRSPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT

-200 PERCENT PASSING #200 SIEVE NMC LL PI PLASTICITY INDEX (%)

NAVD 88

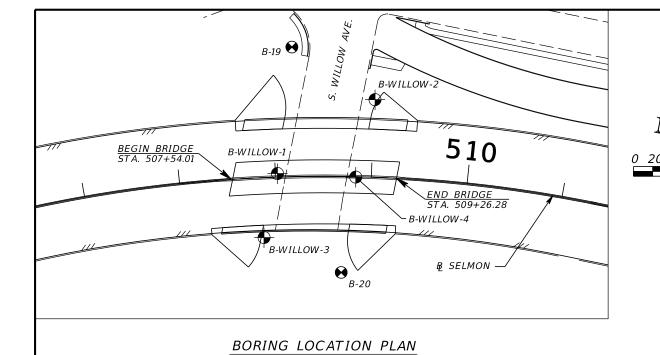
APPROXIMATE SPT BORING LOCATION

FIELD EXPLORATIONS

 $4_{\overline{100}}$

CASING

GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE		LESS THAN 3 3 to 8 8 to 24 24 to 40 GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24



Feet

20

15

10

0

-5

-10

-20

-25

-35

-40

-45

-50

-55

-60

-65

-70

-75

DESCRIPTION

-30 ≥

Q.

- 1. BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.
- 2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29.

LEGEND

GRAY TO BROWN SAND TO SAND WITH SILT

LIGHT GRAY TO LIGHT BROWN SILTY SAND (SM)

GRAY TO GREEN-GRAY CLAYEY SAND (SC)

DARK GRAY TO GREEN-GRAY TO BROWN SANDY CLAY TO CLAY (CL/CH)

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES SP FOR CONFIRMATION OF VISUAL REVIEW.

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

HAND AUGERED TO VERIFY UTILITY CLEARANCE HA

-200 PERCENT PASSING #200 SIEVE NATURAL MOISTURE CONTENT (%)

APPROXIMATE SPT BORING LOCATION BY OTHERS

GROUNDWATER LEVEL ENCOUNTERED DURING

GNAGROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID.

B SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

REF. DWG. NO TAMPA HILLSBOROUGH REPORT OF CORE BORINGS (2) BJS EXPRESSWAY AUTHORITY S. WILLOW AVENUE CHECKED BY DN ROAD NO. COUNTY THEA PROJECT NO. DESIGNED BY SHEET NO. BJS SOUTH SELMON EXPRESSWAY IMPROVEMENTS SR 618 HILLSBOROUGH HI-0012 FROM HIMES AVENUE TO WHITING STREET KHS

ENVIRONMENTAL CLASSIFICATION:

SUBSTRUCTURE CONCRETE: SLIGHTLY AGGRESSIVE SUBSTRUCTURE STEEL: MODERATELY AGGRESSIVE (pH = 7.0) SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

SOIL TEST RESULTS: RESISTIVITY 7,100 OHM-CM CHLORIDES 15 PPM <5 PPM 7.0 SULFATES рΗ

CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION CORE BARREL DIAMETER (INCHES) ROCK CORE TIME (MINUTES) DOWN PRESSURE APPLIED DURING CORE RUN (PSI) PRESSURE PERCENT RECOVERY (%) RQDROCK QUALITY DESIGNATION (%) DRY UNIT WEIGHT (PCF)
MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI) SPLITTING TENSILE STRENGTH (PSI)

16.1' 4/4/2022 **ELEV** DATE I. POORAN DRILLER HAMMER AUTOMATIC D-25 20 -200=4 15 -200=11 10 NMC=20GRAY TO BROWN SAND TO SAND WITH SILT PI=NP(SP/SP-SM)

B-WILLOW-1

508+02

B SELMON

4' LT.

STA.

REF.

37

50/5 50/4

50/4 50/1

50/2 50/5

DESCRIPTION

0

-25

-30

-35

-40

-50

-55

-60

-65

-70

-75

DATE

-200=68 13 NMC=43 LL=49 DARK GRAY TO GREEN-GRAY TO BROWN SANDY CLAY TO CLAY (CL/CH)

GRAY TO GREEN-GRAY CLAYEY SAND (SC)

55 50/0 50/1 50/6

50/3 50/1 50/1 50/4

50/5 CALCAREOUS CLAY TO WEATHERED LIMESTONE 50/2 50/4 50/3

50/4 50/1 50/3 50/3

DATE

BORING TERMINATED AT ELEVATION -73.9 FT (NAVD 88) LATITUDE: N 27.94264 LONGITUDE: W 82.47282 REVISIONS

KEVIN H. SCOTT, P.E. P.E. LICENSE NUMBER 65514 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY

TAMPA, FLORIDA 33637

ПП

CALCAREOUS CLAY TO WEATHERED LIMESTONE

50/4

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER WH

WRSPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD

NMC LIQUID LIMIT (%) LL PI PLASTICITY INDEX (%) NP NON-PLASTIC

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

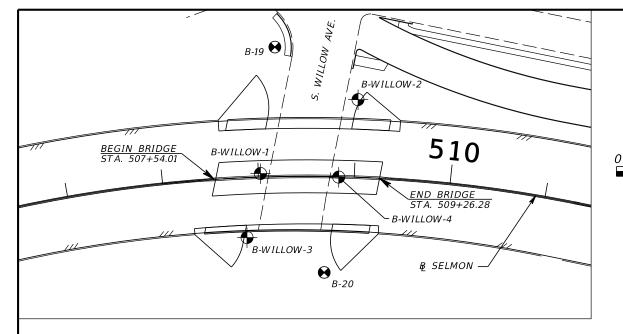
APPROXIMATE SPT BORING LOCATION

FIELD EXPLORATIONS

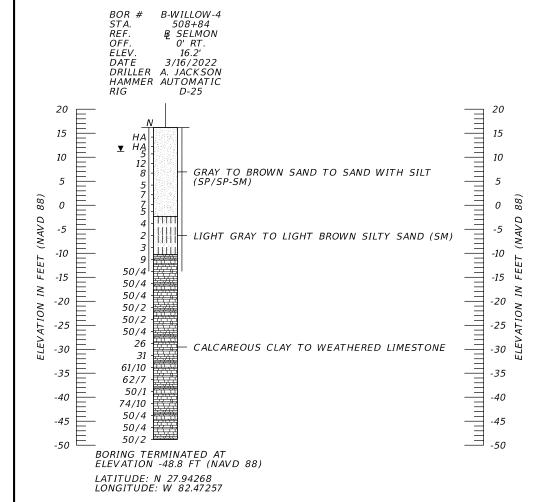
 $4_{\overline{100}}$ LOSS OF CIRCULATION OF DRILLING FLUID (%)

CASING

BRIDGE NOS. 100326 & 100327



BORING LOCATION PLAN



Feet

- 1. BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.
- 2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29.

ENVIRONMENTAL CLASSIFICATION:

SUBSTRUCTURE CONCRETE: SLIGHTLY AGGRESSIVE SUBSTRUCTURE STEEL: MODERATELY AGGRESSIVE (pH = 7.0) SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

SOIL TEST RESULTS: RESISTIVITY 7,100 OHM-CM CHLORIDES 15 PPM SULFATES <5 PPM pH 7.0

CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION CORE BARREL DIAMETER (INCHES) ROCK CORE TIME (MINUTES) DOWN PRESSURE APPLIED DURING CORE RUN (PSI) PRESSURE PERCENT RECOVERY (%) RQDROCK QUALITY DESIGNATION (%) DRY UNIT WEIGHT (PCF)
MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI) SPLITTING TENSILE STRENGTH (PSI)

LEGEND

GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)

LIGHT GRAY TO LIGHT BROWN SILTY SAND (SM)

GRAY TO GREEN-GRAY CLAYEY SAND (SC)

DARK GRAY TO GREEN-GRAY TO BROWN SANDY CLAY TO CLAY (CL/CH)

CALCAREOUS CLAY TO WEATHERED LIMESTONE

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES SP FOR CONFIRMATION OF VISUAL REVIEW.

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

50/4 NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

HAND AUGERED TO VERIFY UTILITY CLEARANCE HA

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER WH

WRSPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD

PERCENT PASSING #200 SIEVE -200 NMC NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) LL PI

PLASTICITY INDEX (%) NP NON-PLASTIC

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION BY OTHERS

APPROXIMATE SPT BORING LOCATION

GROUNDWATER LEVEL ENCOUNTERED DURING ▼ FIELD EXPLORATIONS

 $4_{\overline{100}}$ LOSS OF CIRCULATION OF DRILLING FLUID (%)

CASING

ПП

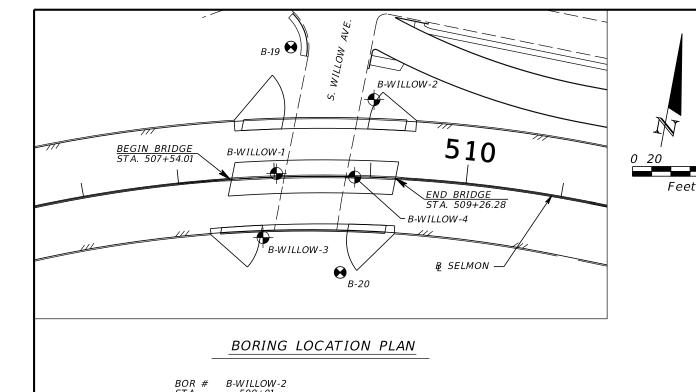
GNAGROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID.

BE SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE	4 to 10	3 to 8 8 to 24 24 to 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

BRIDGE NOS. 100326 & 100327

DATE BY DESCRIPTION	VISIONS DATE	ВҮ	DESCRIPTION	KEVIN H. SCOTT, P.E. P.E. LICENSE NUMBER 65514	DRAWN BY: BJS CHECKED BY:		TAMPA HILLSE XPRESSWAY A		SHEET TITLE:	REPORT OF CORE BORINGS (3) S. WILLOW AVENUE	REF. DWG. NO.
				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	DN DESIGNED BY BJS CHECKED BY	ROAD NO.	COUNTY	THEA PROJECT NO. H1-0012	PROJECT NAME:	SOUTH SELMON EXPRESSWAY IMPROVEMENTS FROM HIMES AVENUE TO WHITING STREET	SHEET NO.



B SELMON

81' LT.

15.1

3/17/2022

D-25

DRILLER A. JACKSON

HAMMER AUTOMATIC

REF

OFF

RIG

HA

HA 6

10

10 -

47

WH

16

33

25

50/2

50/1

50/4

50/4

64/10

50/4

50/1

68/8

50/4

50/2

50/1

50/2

50/2

50/2

50/4

BORING TERMINATED AT ELEVATION -64.9 FT (NAVD 88)

LATITUDE: N 27.94290

100

(SC)

-200=49

NMC=33

PI=37

27

-200=5

15

10

5

0

-5

-10

-15

-20

-25

-30

-35

-40

-45

-50

-55

-60

-65

ELEV.

DATE

- 1. BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.
- 2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29.

LEGEND

GRAY TO BROWN SAND TO SAND WITH SILT

LIGHT GRAY TO LIGHT BROWN SILTY SAND (SM)

GRAY TO GREEN-GRAY CLAYEY SAND (SC)

DARK GRAY TO GREEN-GRAY TO BROWN SANDY CLAY TO CLAY (CL/CH)

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES SP FOR CONFIRMATION OF VISUAL REVIEW.

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER WH

NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%)

APPROXIMATE SPT BORING LOCATION BY OTHERS

FIELD EXPLORATIONS

GNATHE INTRODUCTION OF DRILLING FLUID.

B SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

SHEET NO.

LONGITUDE: W 82.47255 REVISIONS KEVIN H. SCOTT, P.E. DESCRIPTION DATE DATE DESCRIPTION P.E. LICENSE NUMBER 65514 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637

GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)

GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)

- LIGHT GRAY TO LIGHT BROWN SILTY SAND (SM)

- LIGHT GRAY TO LIGHT BROWN SILTY SAND (SM)

CALCAREOUS CLAY TO WEATHERED LIMESTONE

- DARK GRAY TO GREEN-GRAY TO BROWN SANDY CLAY TO CLAY (CL/CH)

- GRAY TO GREEN-GRAY CLAYEY SAND (SC)

- CALCAREOUS CLAY TO WEATHERED

- GRAY TO GREEN-GRAY CLAYEY SAND (SC)

GRAY TO GREEN-GRAY CLAYEY SAND

CALCAREOUS CLAY TO WEATHERED

CALCAREOUS CLAY TO WEATHERED LIMESTONE

LIMESTONE

TAMPA HILLSBOROUGH BJS CHECKED BY DN COUNTY ESIGNED BY BJS

THEA PROJECT NO.

S. WILLOW AVENUE SOUTH SELMON EXPRESSWAY IMPROVEMENTS FROM HIMES AVENUE TO WHITING STREET

REPORT OF CORE BORINGS (4)

SR 618 HILLSBOROUGI HI-0012 KHS

ENVIRONMENTAL CLASSIFICATION: SUBSTRUCTURE CONCRETE: SLIGHTLY AGGRESSIVE SUBSTRUCTURE STEEL: MODERATELY AGGRESSIVE (pH = 7.0)SUPERSTRUCTURE SLIGHTLY AGGRESSIVE SOIL TEST RESULTS: RESISTIVITY 7,100 OHM-CM CHLORIDES 15 PPM <5 PPM 7.0 SULFATES рΗ

CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION CORE BARREL DIAMETER (INCHES) ROCK CORE TIME (MINUTES) DOWN PRESSURE APPLIED DURING CORE RUN (PSI) PRESSURE PERCENT RECOVERY (%) RQDROCK QUALITY DESIGNATION (%) DRY UNIT WEIGHT (PCF)
MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI) SPLITTING TENSILE STRENGTH (PSI)

15

0

-5

-10

-15

-20

-25

-30

-35

-40

-45

-50

-55

-60

45.0 TO 50.0

400 76.7

555 TO 597

65.0 TO 70.0

400

100.0

1896

82 TO 1102

TO 169.2

PRESSURE

RFC ROD

CORE

RQD

PRESSURE

ПП

CALCAREOUS CLAY TO WEATHERED LIMESTONE

50/4 NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

HAHAND AUGERED TO VERIFY UTILITY CLEARANCE

WRSPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD

PERCENT PASSING #200 SIEVE -200 NMC LL PI PLASTICITY INDEX (%) NP NON-PLASTIC

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION

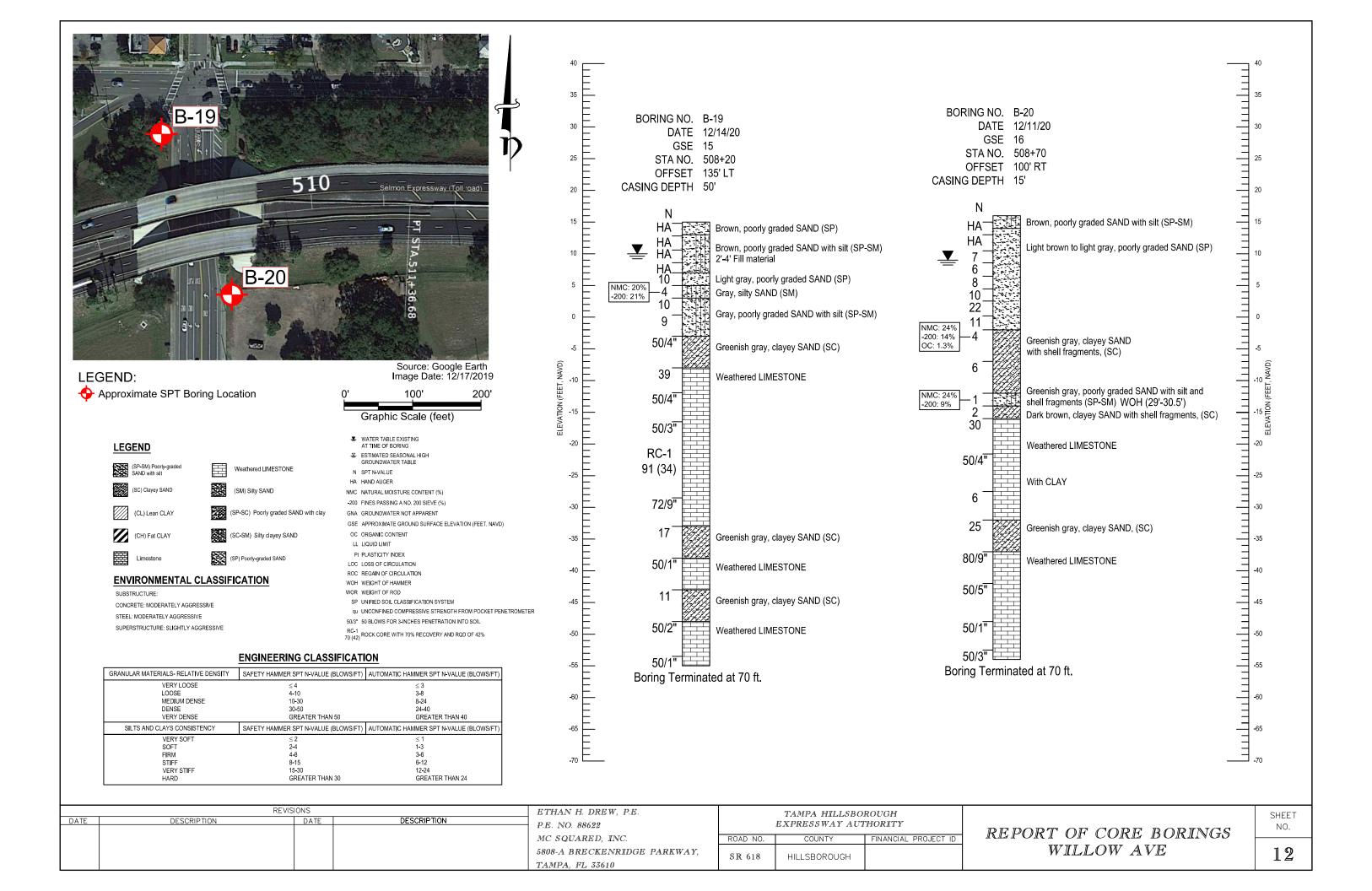
GROUNDWATER LEVEL ENCOUNTERED DURING

 $4_{\overline{100}}$ LOSS OF CIRCULATION OF DRILLING FLUID (%)

CASING

GROUNDWATER NOT APPARENT DUE TO

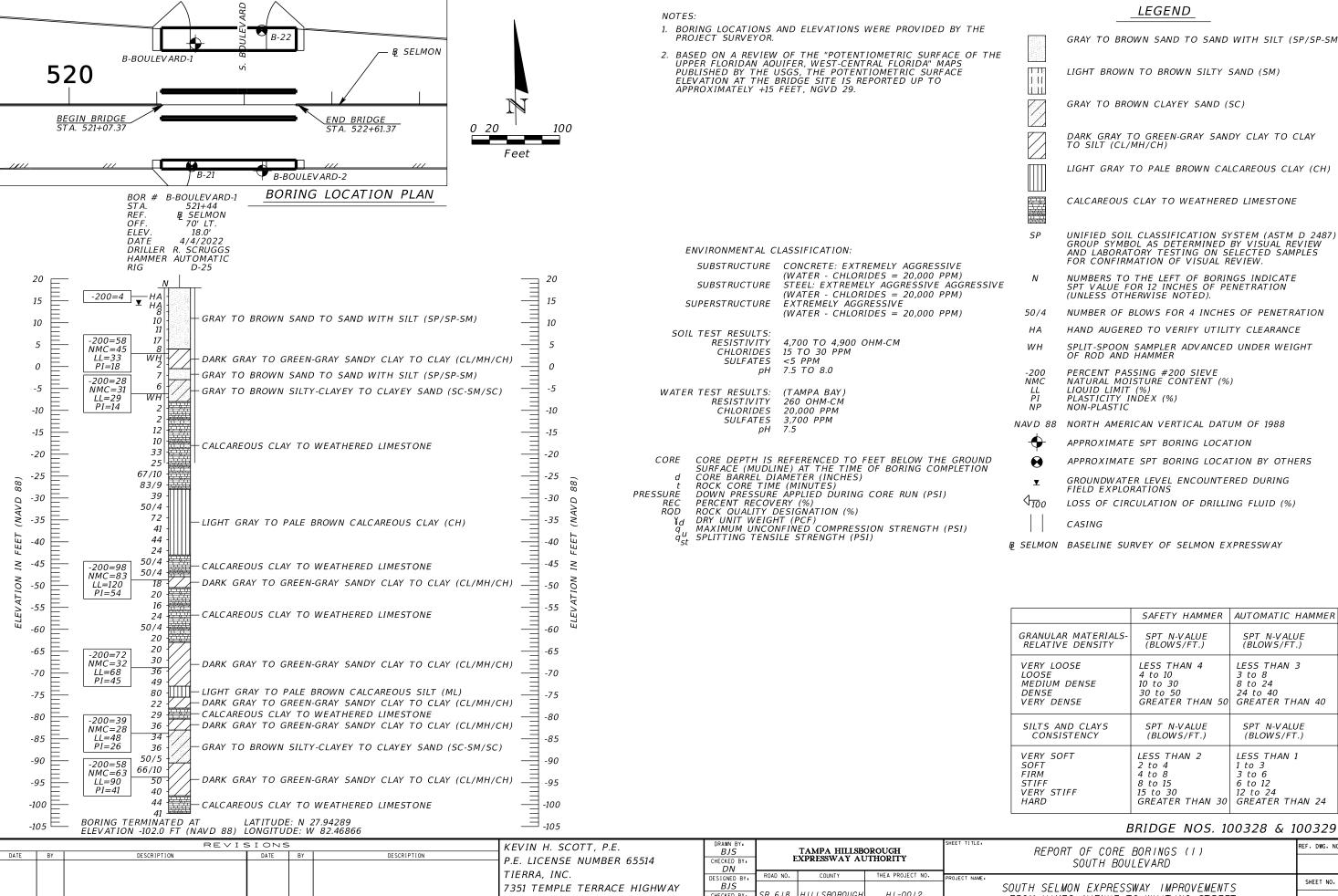
BRIDGE NOS. 100326 & 100327 REF. DWG. NO



APPENDIX K

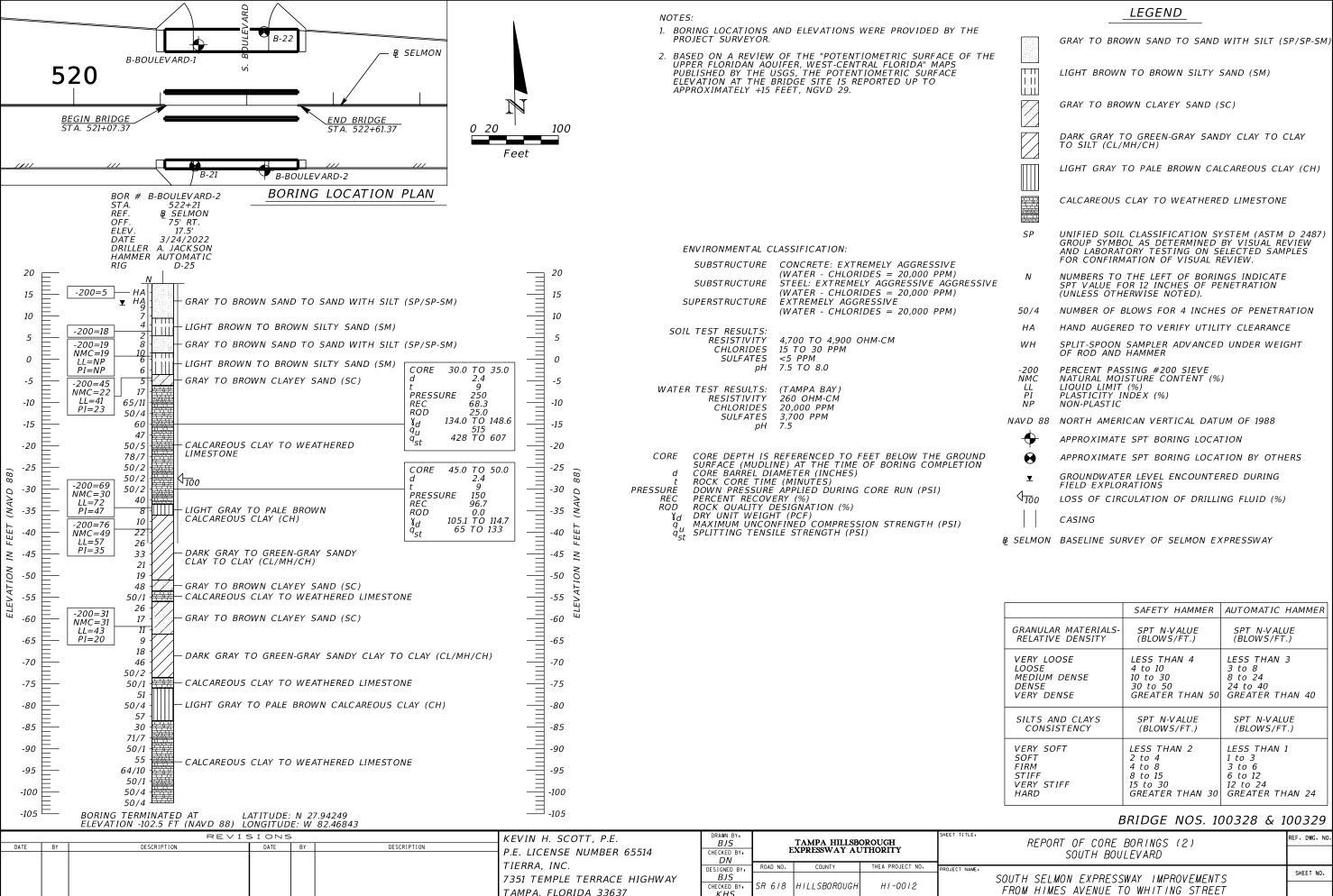
Report of Core Borings Sheets – SR 618 over South Boulevard

Existing Geotechnical Data – Borings Performed by Others



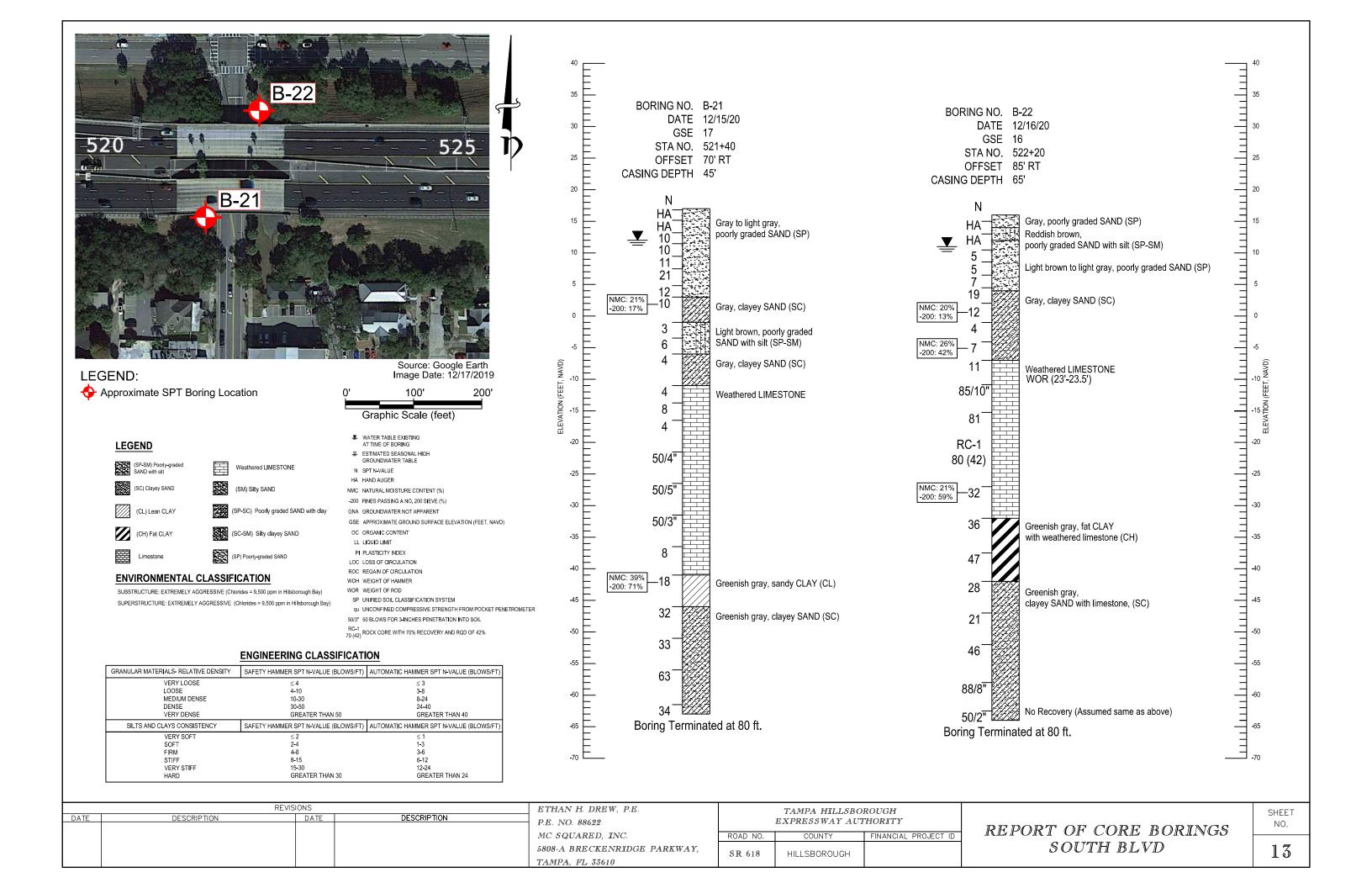
	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE	30 to 50	LESS THAN 3 3 to 8 8 to 24 24 to 40 GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

SR 618 HILLSBOROUGI HI-0012 FROM HIMES AVENUE TO WHITING STREET TAMPA, FLORIDA 33637 KHS



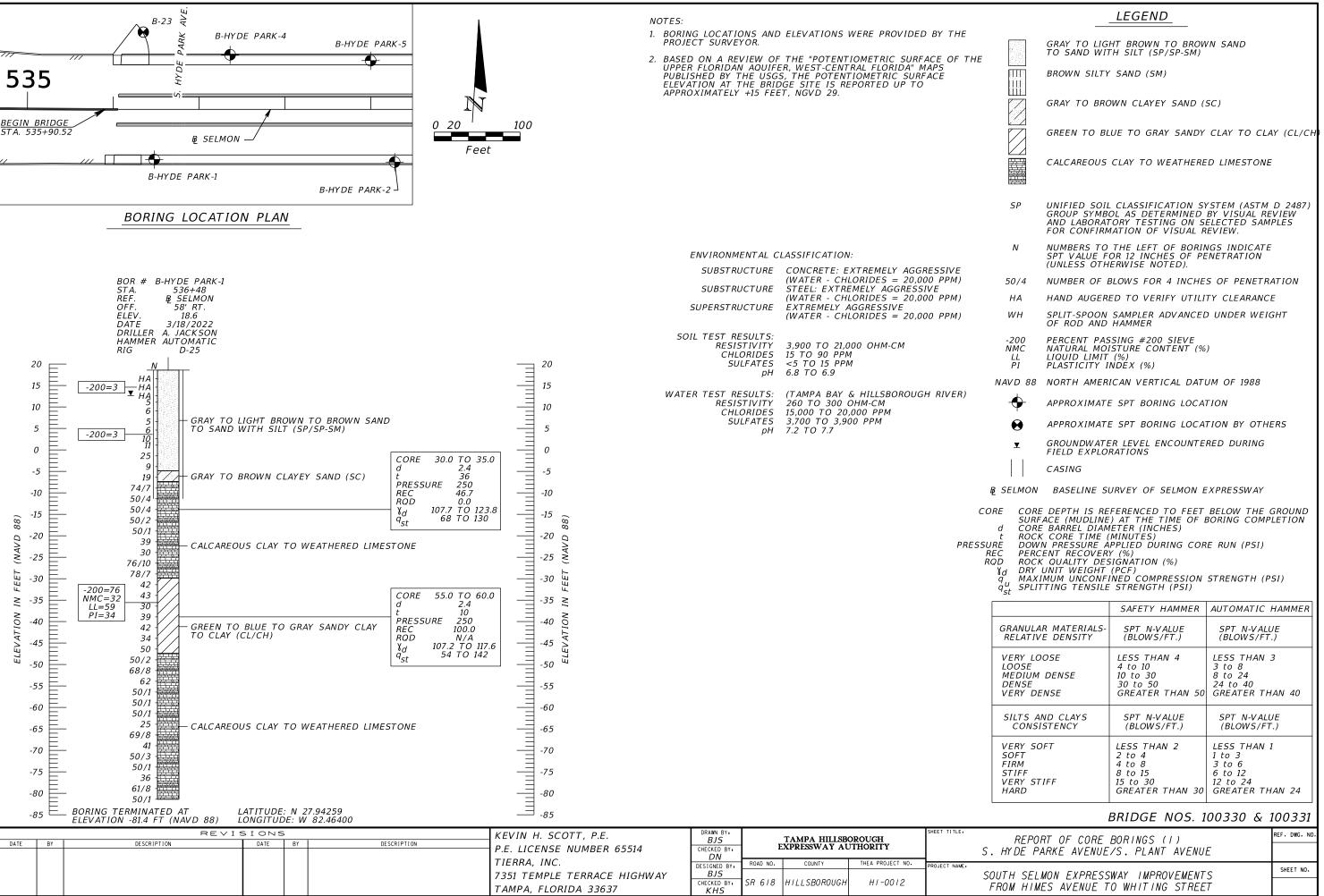
	SAFETY HAMMER	AUTOMATIC HAMMER				
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE				
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)				
VERY LOOSE	LESS THAN 4	LESS THAN 3				
LOOSE	4 to 10	3 to 8				
MEDIUM DENSE	10 to 30	8 to 24				
DENSE	30 to 50	24 to 40				
VERY DENSE	GREATER THAN 50	GREATER THAN 40				
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE				
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)				
VERY SOFT	LESS THAN 2	LESS THAN 1				
SOFT	2 to 4	1 to 3				
FIRM	4 to 8	3 to 6				
STIFF	8 to 15	6 to 12				
VERY STIFF	15 to 30	12 to 24				
HARD	GREATER THAN 30	GREATER THAN 24				

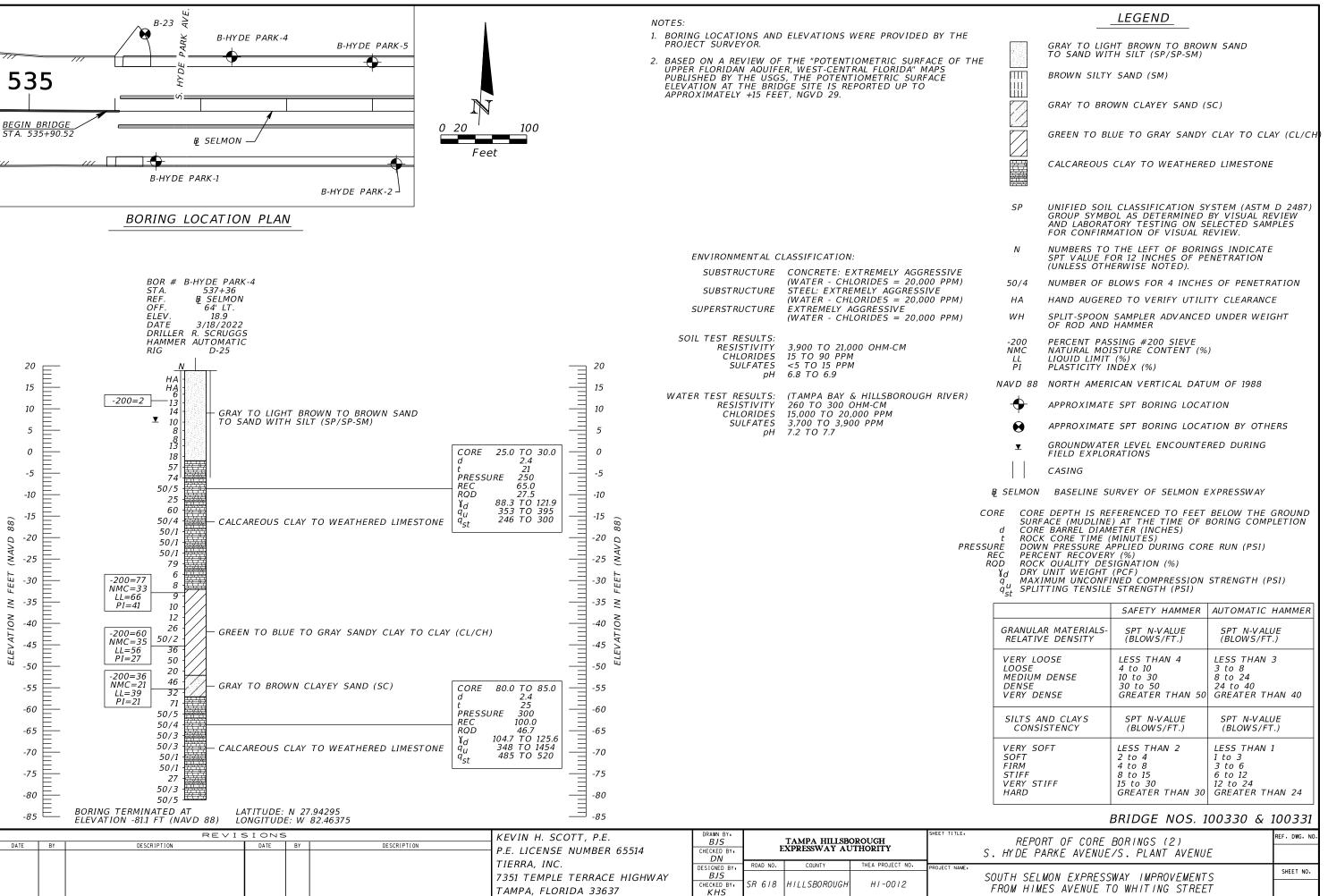
TAMPA, FLORIDA 33637 KHS

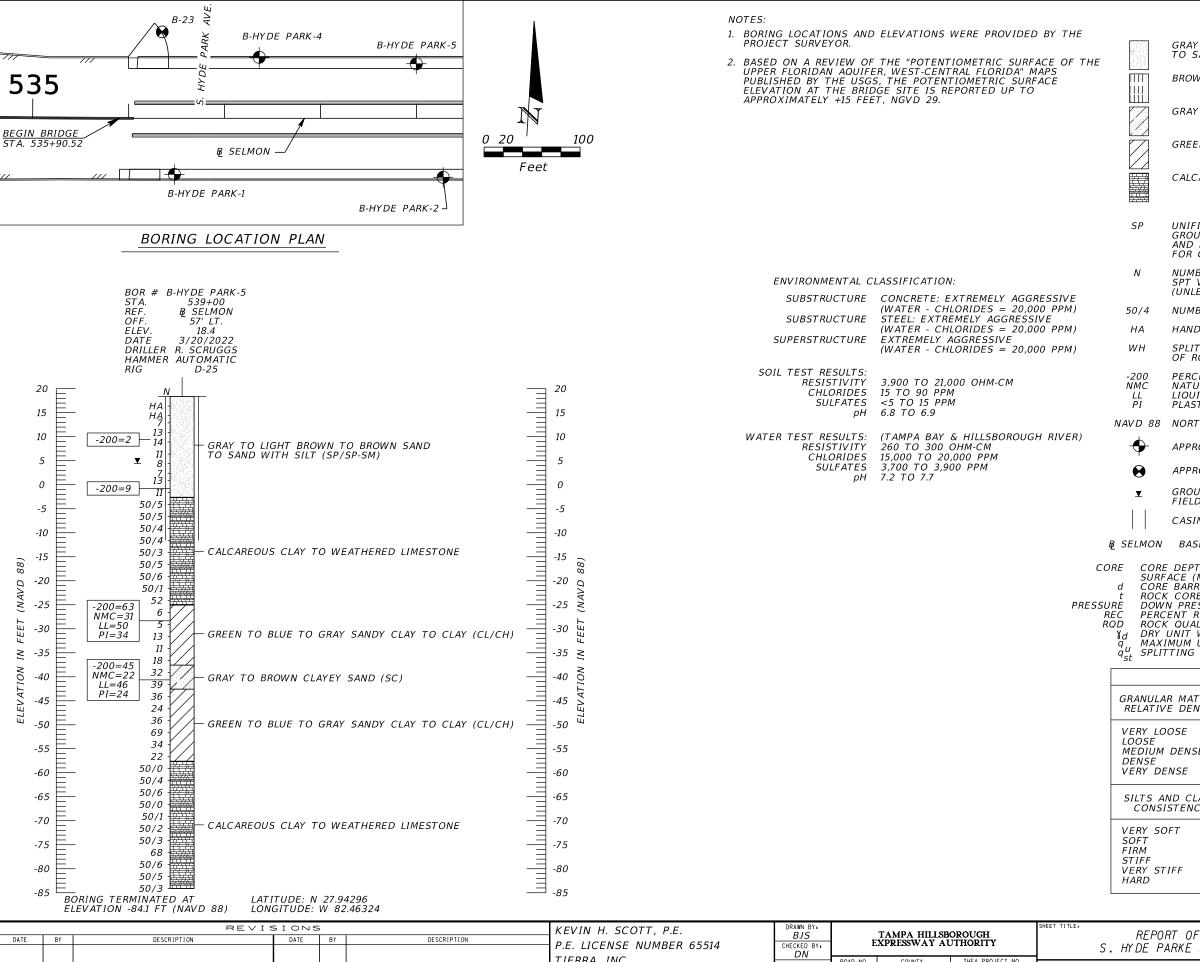


APPENDIX L

Report of Core Borings Sheets – SR 618 over Hyde Park Ave./Plant Ave.







LEGEND

GRAY TO LIGHT BROWN TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)

BROWN SILTY SAND (SM)

GRAY TO BROWN CLAYEY SAND (SC)

GREEN TO BLUE TO GRAY SANDY CLAY TO CLAY (CL/CH

CALCAREOUS CLAY TO WEATHERED LIMESTONE

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED)

NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

HAND AUGERED TO VERIFY UTILITY CLEARANCE

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER

PERCENT PASSING #200 SIEVE NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) PLASTICITY INDEX (%)

NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION

APPROXIMATE SPT BORING LOCATION BY OTHERS

GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

CASING

& SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION

CORE BARREL DIAMETER (INCHES)
ROCK CORE TIME (MINUTES)
DOWN PRESSURE APPLIED DURING CORE RUN (PSI)

PERCENT RECOVERY (%)

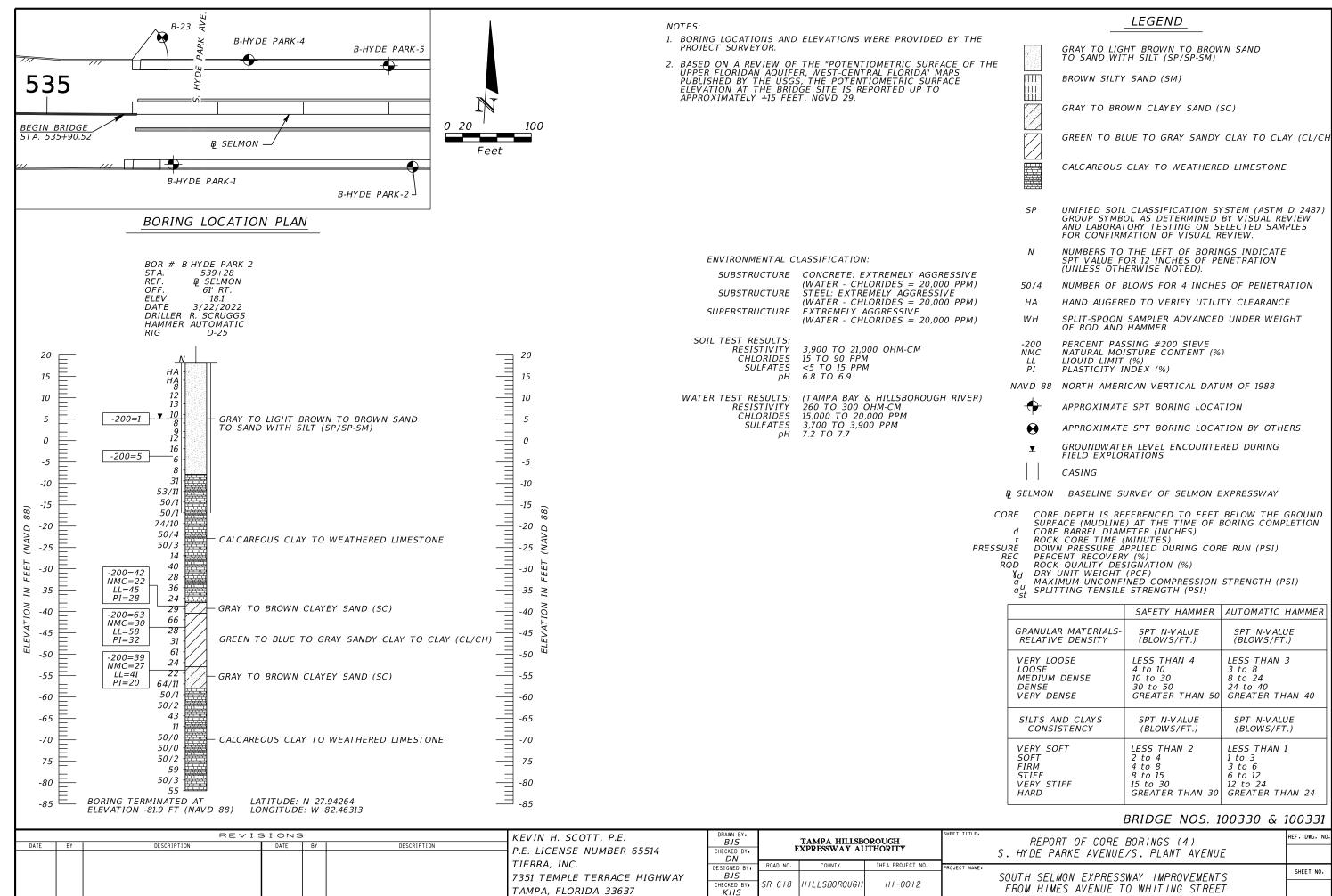
ROCK QUALITY DESIGNATION (%) DRY UNIT WEIGHT (PCF)

MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI) SPLITTING TENSILE STRENGTH (PSI)

	SAFETY HAMMER	AUTOMATIC HAMMER				
	STULTT TITUTER	7101 OFFICE TO BEFORE				
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE				
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)				
VERY LOOSE	LESS THAN 4	LESS THAN 3				
LOOSE	4 to 10	3 to 8				
MEDIUM DENSE	10 to 30	8 to 24				
DENSE	30 to 50	24 to 40				
VERY DENSE	GREATER THAN 50	GREATER THAN 40				
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE				
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)				
VERY SOFT	LESS THAN 2	LESS THAN 1				
SOFT	2 to 4	1 to 3				
FIRM	4 to 8	3 to 6				
STIFF	8 to 15	6 to 12				
VERY STIFF	15 to 30	12 to 24				
HARD	GREATER THAN 30	GREATER THAN 24				

BRIDGE NOS. 100330 & 100331

REVISIONS					KEVIN H. SCOTT, P.E.	DIC		TAMPA HILLSBOROUGH			REPORT OF CORE BORINGS (3)								
BY	DESCRIPTION	DATE	BY	DESCRIPTION	DE LIGENCE WINDER CEEA			EXPRESSWAY AUTHORITY		ENTER PROPERTY A ST. A T PETTY OF TEXT									4
					─ P.E. LICENSE NUMBER 65514								S. HYDF PARK	E AVENUE/S. PLANT /	AVFNUF I		4		
		l			TIERRA. INC.	DN			THE A BROWERT WA		0 22		2 2		4				
		l			HERRA, INC.	DESIGNED BY:	ROAD NO.	COUNTY	THEA PROJECT NO.	PROJECT NAME:				CHEET NO	4				
					7351 TEMPLE TERRACE HIGHWAY	BJS					SOUTH SELMON	I EXPRESSWAY IMPROV.	FMFNTS	SHEET NO.	4				
		l				CHECKED BY:	FECKED BY: SR 618 HILLSBOROUGH HI-0012	R 618 HILLSBOROUGH	III I SBOROUGH	THILL SBOROUGH	18 HILLSBOROUGH - HI-0013						4		
					TAMPA, FLORIDA 33637	KHS	377 070	EE3B01100011	777 0072		FRUM HIMES	AVENUE TO WHITING	STREET		i				
								bsawask	ra	7/14/	'2022 8:15:10 PM	J:\65 \202 F1 es\65 -2 - 69 THEA	Naster HNTB\TWO 7_South Selm	non Drilling Wic	rostat				



AUTOMATIC HAMMER

(BLOWS/FT.)

LESS THAN 3

GREATER THAN 40

REF. DWG. NO

SHEET NO.

SPT N-VALUE

(BLOWS/FT.)

LESS THAN 1

1 to 3

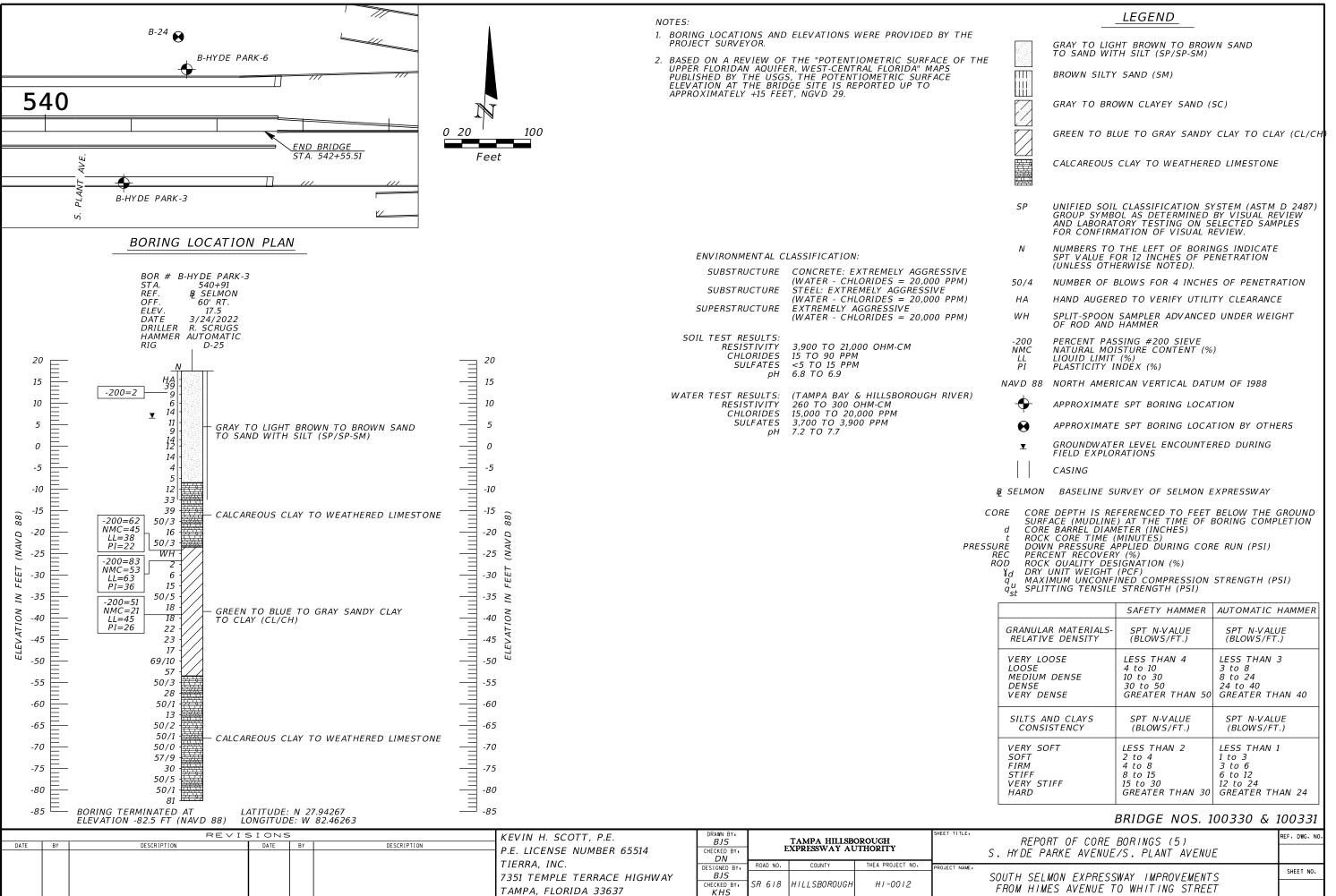
3 to 6

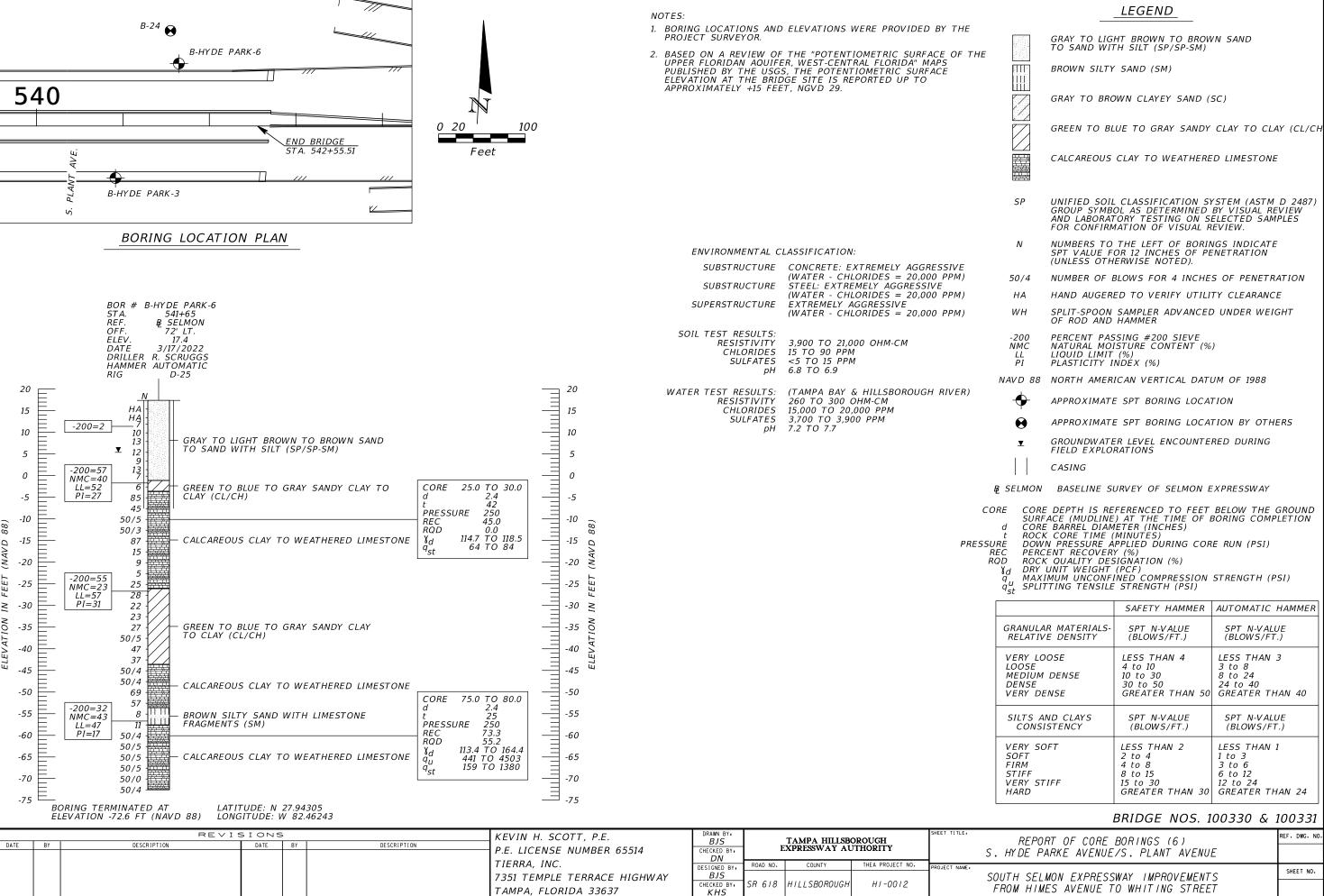
6 to 12

3 to 8

8 to 24

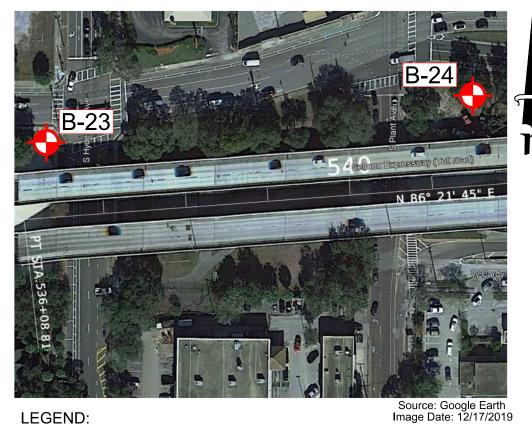
24 to 40





SR 618

FROM HIMES AVENUE TO WHITING STREET



Approximate SPT Boring Location

LEGEND

(SP-SM) Poorly-graded SAND with silt

(SC) Clayey SAND

(CH) Fat CLAY

Limestone

(SM) Silty SAND

Weathered LIMESTONE

(SP-SC) Poorly graded SAND with clay

(CL) Lean CLAY

(SC-SM) Silty clayey SAND

(SP) Poorly-graded SAND

ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: EXTREMELY AGGRESSIVE (Chlorides = 9,500 ppm in Hillsborough Bay) SUPERSTRUCTURE: EXTREMELY AGGRESSIVE (Chlorides = 9,500 ppm in Hillsborough Bay)

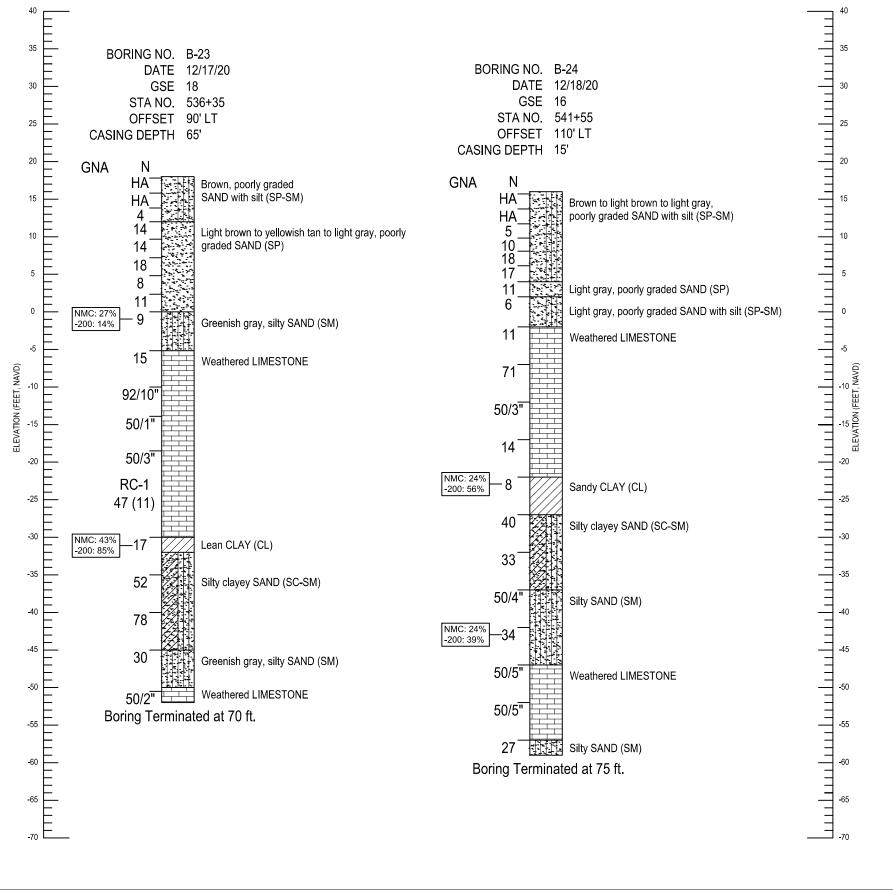
200'

100' Graphic Scale (feet)

- WATER TABLE EXISTING AT TIME OF BORING
- ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
- N SPT N-VALUE HA HAND AUGER
- NMC NATURAL MOISTURE CONTENT (%) -200 FINES PASSING A NO. 200 SIEVE (%)
- GNA GROUNDWATER NOT APPARENT
- GSE APPROXIMATE GROUND SURFACE ELEVATION (FEET, NAVD)
- OC ORGANIC CONTENT
- LL LIQUID LIMIT PI PLASTICITY INDEX
- LOC LOSS OF CIRCULATION
- ROC REGAIN OF CIRCULATION
- WOH WEIGHT OF HAMMER WOR WEIGHT OF ROD
- SP UNIFIED SOIL CLASSIFICATION SYSTEM
- QU UNCONFINED COMPRESSIVE STRENGTH FROM POCKET PENETROMETER
- 50/3" 50 BLOWS FOR 3-INCHES PENETRATION INTO SOIL
- $^{
 m RC-1}_{70~(42)}$ ROCK CORE WITH 70% RECOVERY AND RQD OF 42%

ENGINEERING CLASSIFICATION

		1
GRANULAR MATERIALS- RELATIVE DENSITY	SAFETY HAMMER SPT N-VALUE (BLOWS/FT)	AUTOMATIC HAMMER SPT N-VALUE (BLOWS/FT)
VERY LOOSE	≤ 4	≤ 3
LOOSE	4-10	3-8
MEDIUM DENSE	10-30	8-24
DENSE	30 - 50	24-40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SAFETY HAMMER SPT N-VALUE (BLOWS/FT)	AUTOMATIC HAMMER SPT N-VALUE (BLOWS/FT)
VERY SOFT	≤ 2	≤1
SOFT	2-4	1-3
FIRM	4-8	3-6
STIFF	8-15	6-12
VERY STIFF	15-30	12-24
HARD	GREATER THAN 30	GREATER THAN 24

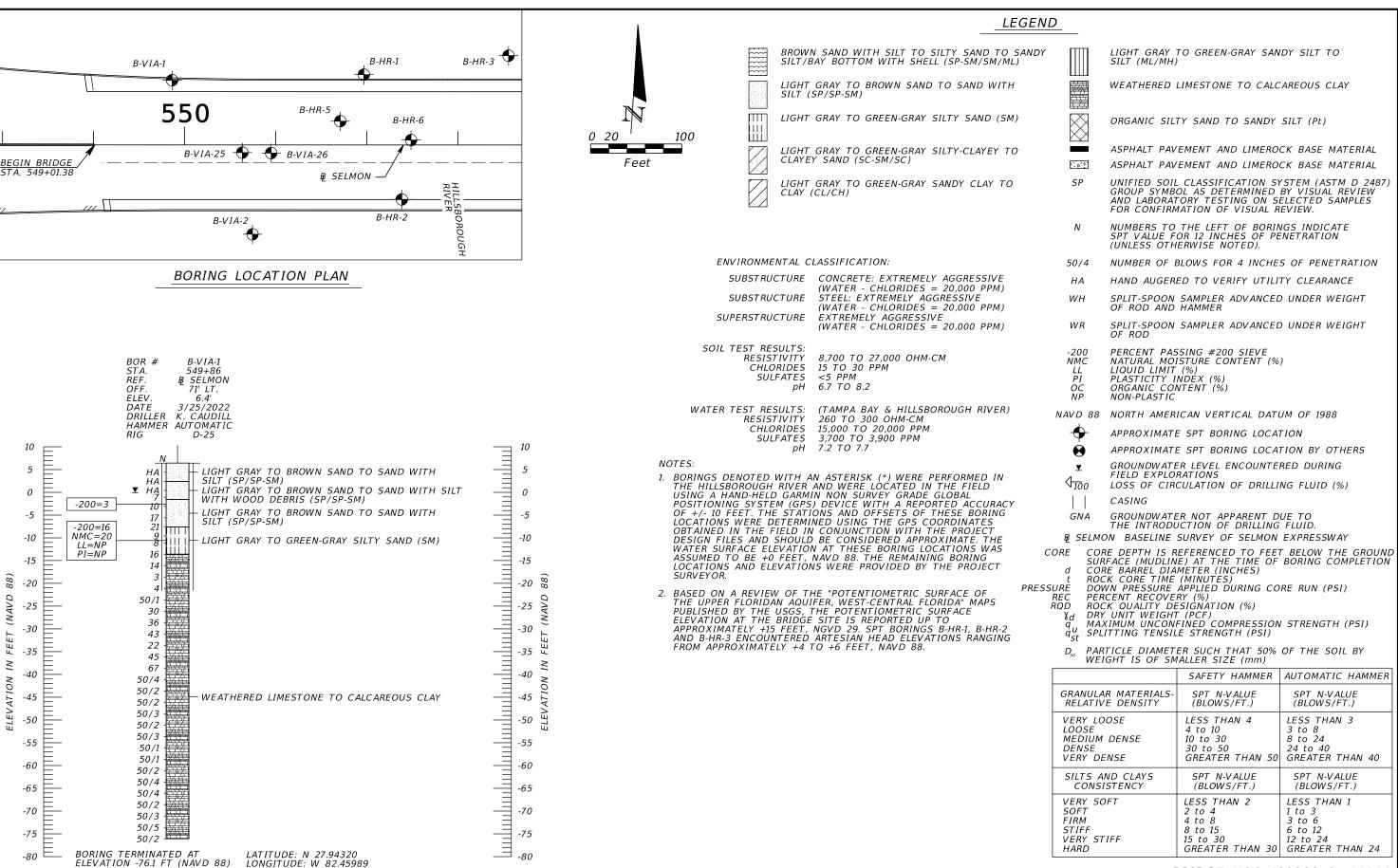


	REVIS	IONS		ETHAN H. DREW, P.E.		TAMPA HILLSBO	ROUGH		SHEET
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. NO. 88622		EXPRESSWAY AUT		REPORT OF CORE BORINGS	NO.
				MC SQUARED, INC.	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				5808-A BRECKENRIDGE PARKWAY,	SR 618	HILLSBOROUGH		HYDE PARK AVE & PLANT AVE	14
				TAMPA, FL 33610		111223331133311			<u> </u>

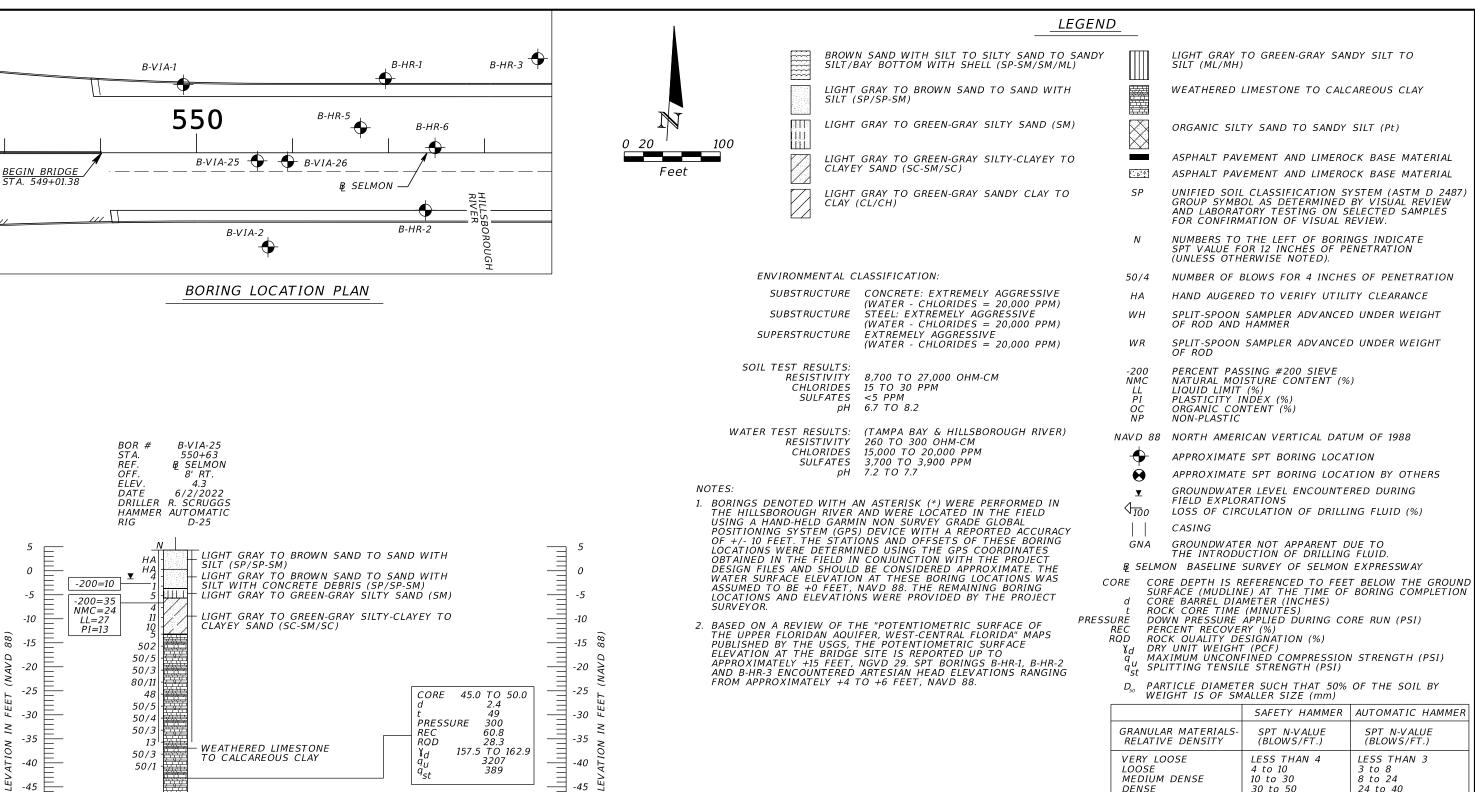
APPENDIX M

Report of Core Borings Sheets – SR 618 over Downtown Viaduct

Existing Geotechnical Data – Borings Performed by Others



	REVIS	SIONS		KEVIN H. SCOTT, P.E.	DRAWN BY: BJS	TAMPA HILLSBO	DOLICH	SHEET TITLE:	T OF CORE BORINGS (I)	REF. DWG. NO.	
DATE BY	DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	CHECKED BY:	EXPRESSWAY AU		KEFUK	VIADUCT		
				TIERRA, INC.	DESIGNED BY.	ROAD NO. COUNTY	THEA PROJECT NO.	PROJECT NAME:		SHEET NO.	1
				7351 TEMPLE TERRACE HIGHWAY	BJS CHECKED BY:	SR 618 HILLSBOROUGH	HI-0012		ON EXPRESSWAY IMPROVEMENTS	SHEET NOT	4
				TAMPA, FLORIDA 33637	KHS	3N 070 INTEESBONOOON	111 0012	FROM HIME	S AVENUE TO WHITING STREET		J
						bgarcia		7/18/2022 2:18:43 PM	J:\65 \202 Files\65 -2 - 69 THEA Master HNTB\TWO 7_So	uth Selmon Drilling Wid	_ icrostation∖Geo



CORE

RQD

PRESSURE

-50

-55

-60 -65

50/5

50/4

50/5

BORING TERMINATED AT

LATITUDE: N 27.94299 LONGITUDE: W 82.45963

ELEVATION -60.7 FT (NAVD 88)

50.0 TO 55.0

300

135.7 TO 147.1 782 TO 3757

231 TO 271

-50

-55

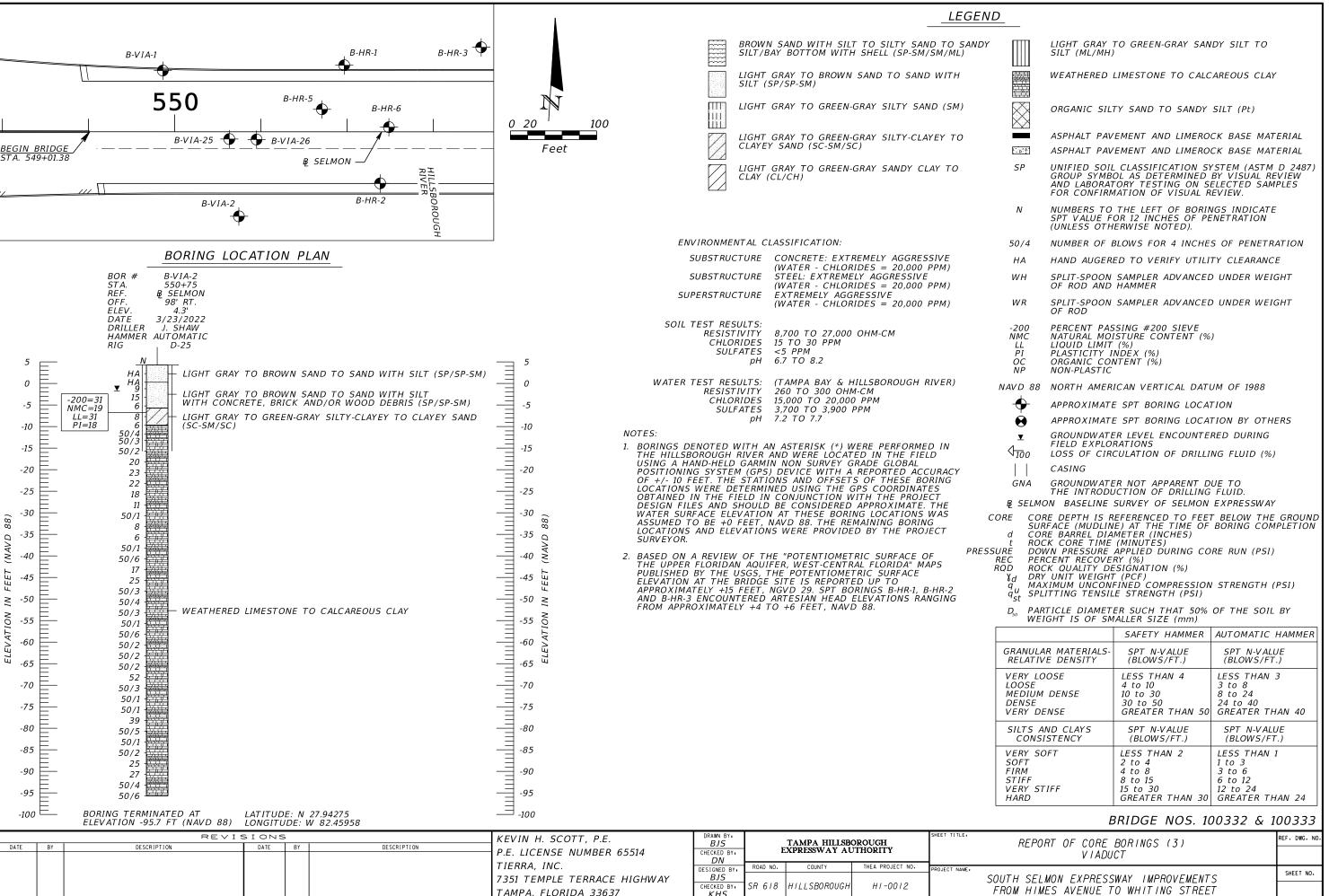
-60

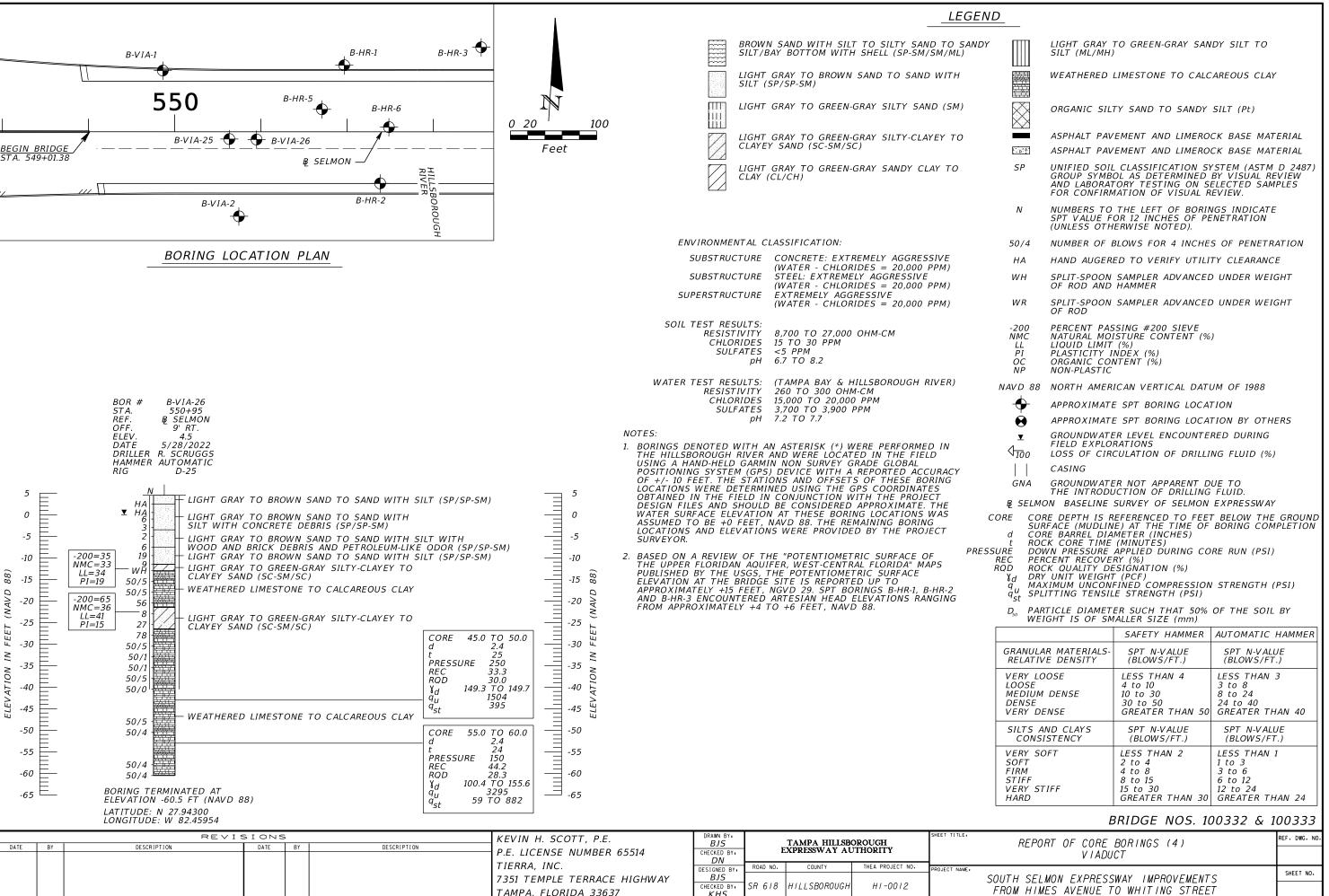
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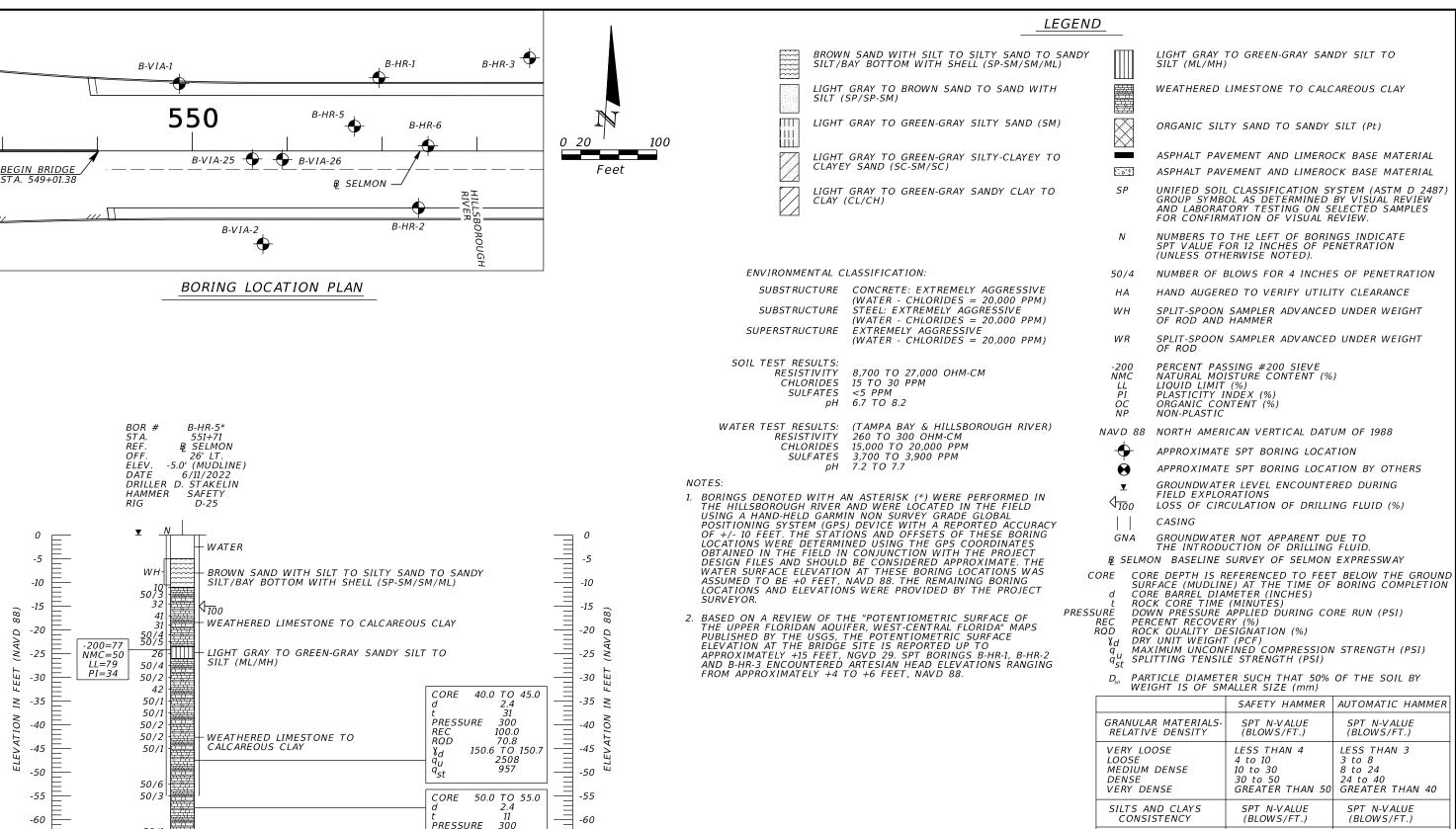
PARTICLE DIAMETER SUCH THAT 50% OF THE SOIL BY

WEIGHT 13 OF SW	ALLEN SIZE (IIIII)	
	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

	REVISIONS DV DESCRIPTION DATE DV DESCRIPTION				KEVIN H. SCOTT, P.E.	DRAWN BY:	TAMPA HILLSBOROUGH	SHEET TITLE:	OF CORE BORINGS (2)	REF. DWG. NO.
DATE BY	(DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	CHECKED BY:	EXPRESSWAY AUTHORITY	, KEFUKI	VIADUCT	
					TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY	DESIGNED BY: BJS CHECKED BY:	ROAD NO. COUNTY THEA PROJECT NO. SR 618 HILLSBOROUGH HI-0012		ON EXPRESSWAY IMPROVEMENTS	SHEET NO.
					TAMPA, FLORIDA 33637	KHS	bgarcla	FROM HIMES	S AVENUE TO WHITING STREET J:\65 \\2021Files\65 \-2 -169 THEA Master HNTB\TWO 7_	South Selmon Drilling\Mi







RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

TIERRA INC	REPORT OF CORE BORINGS (5) VIADUCT		
7351 TEMPLE TERRACE HIGHWAY BISTORIES BY CO. C. R. JULIUS CROPOLICUL JULIUS	SOUTH SELMON EXPRESSWAY LMPROVEMENTS	SHEE	EET NO.

-65

RQD

 q_{st}

0.00 120.2 278

50/1

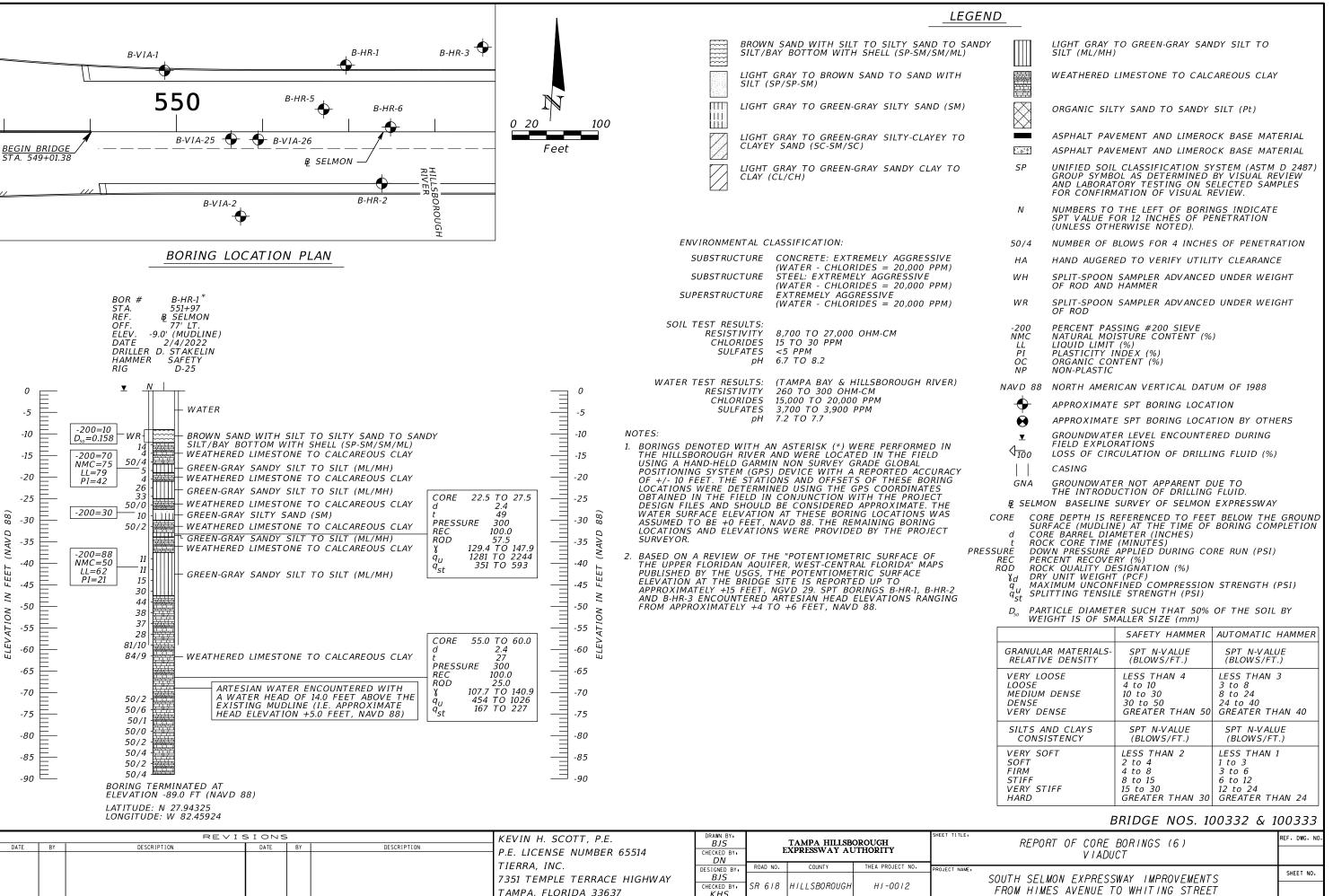
50/3

BORING TERMINATED AT

LATITUDE: N 27.94311 LONGITUDE: W 82.45931

ELEVATION -65.0 FT (NAVD 88)

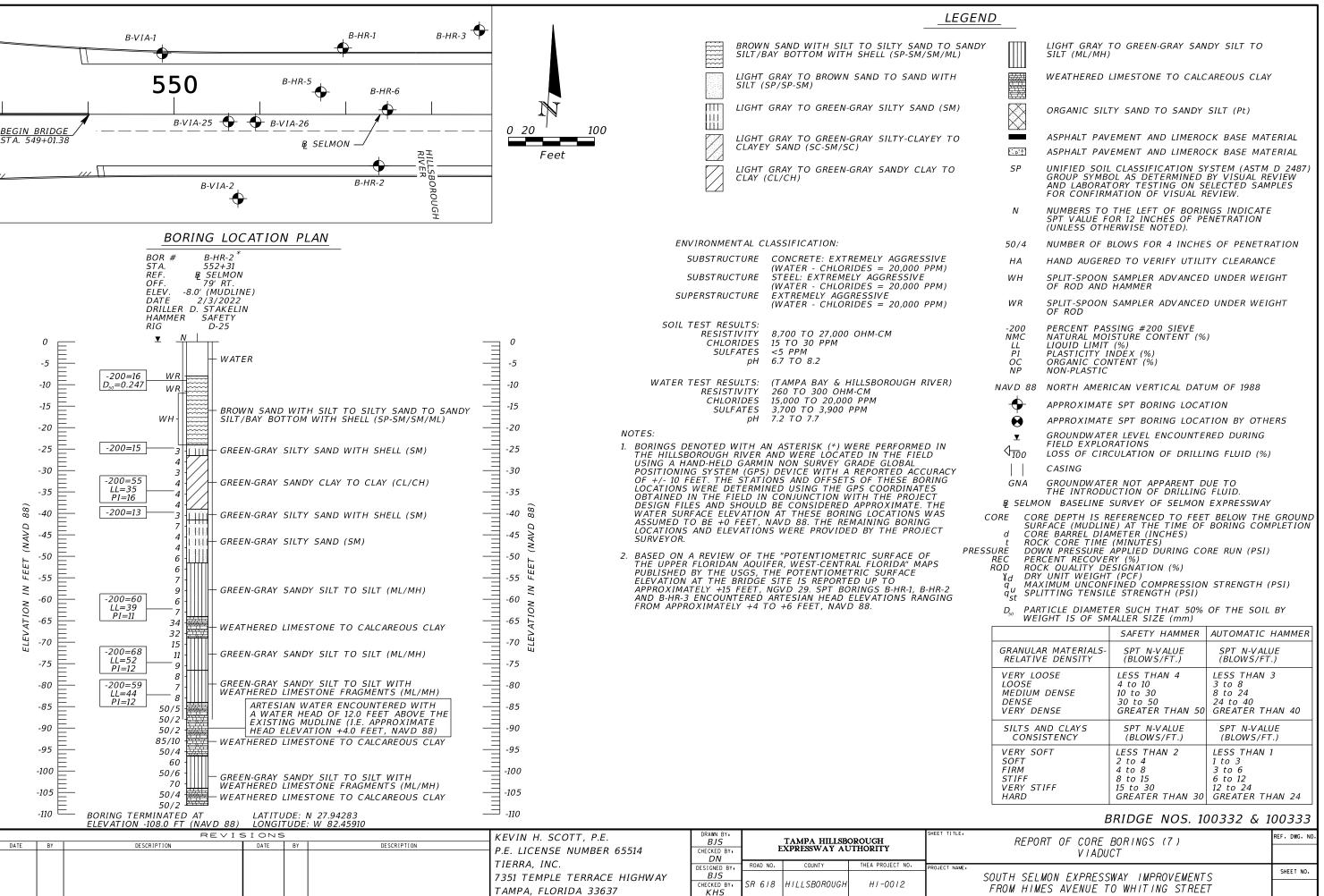
-65

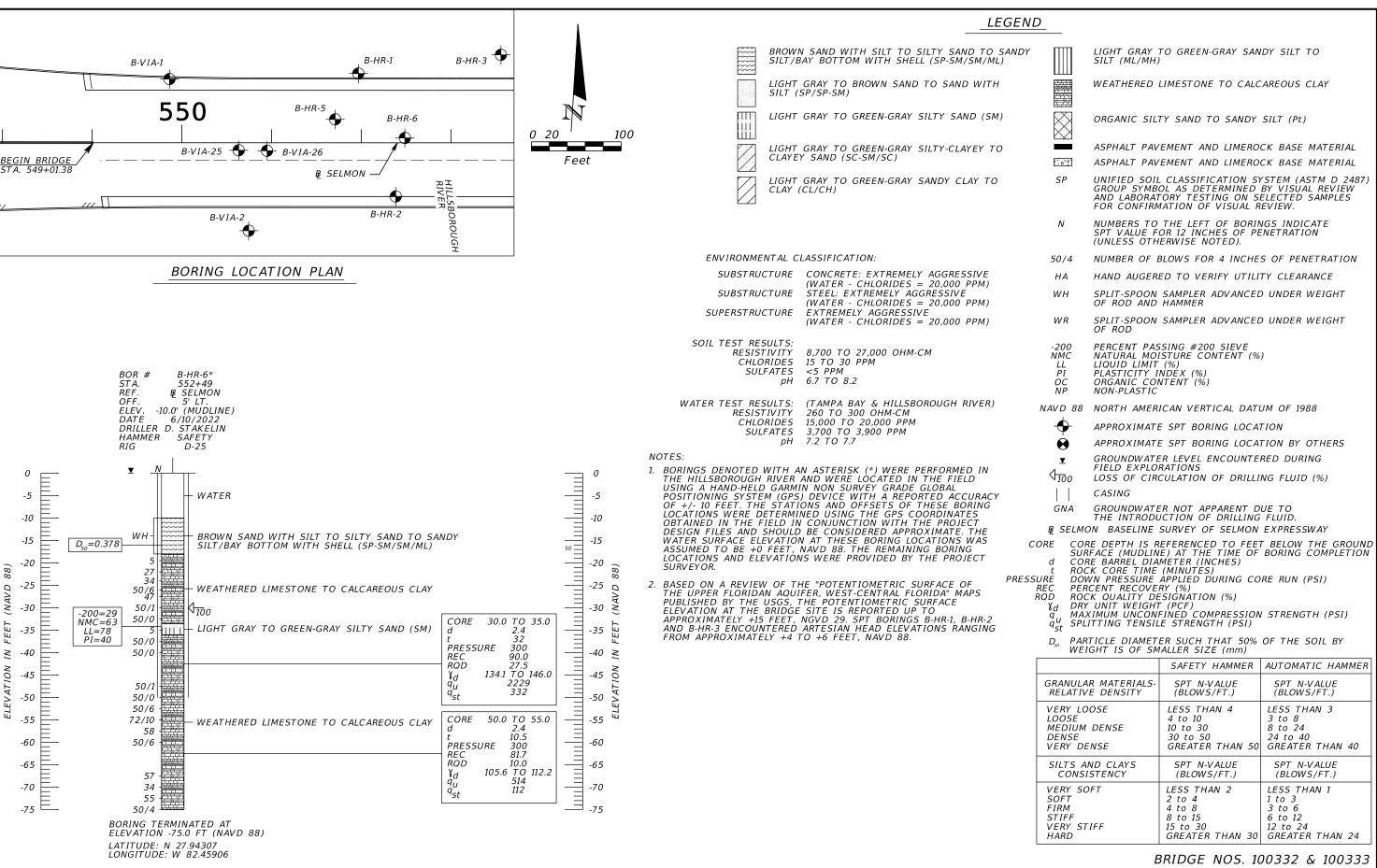


2:18:47 PM J:\65II\202I Files\65II-2I-I69 THEA Master HNTB\TWO 7_South Selmon Drilling\Mici

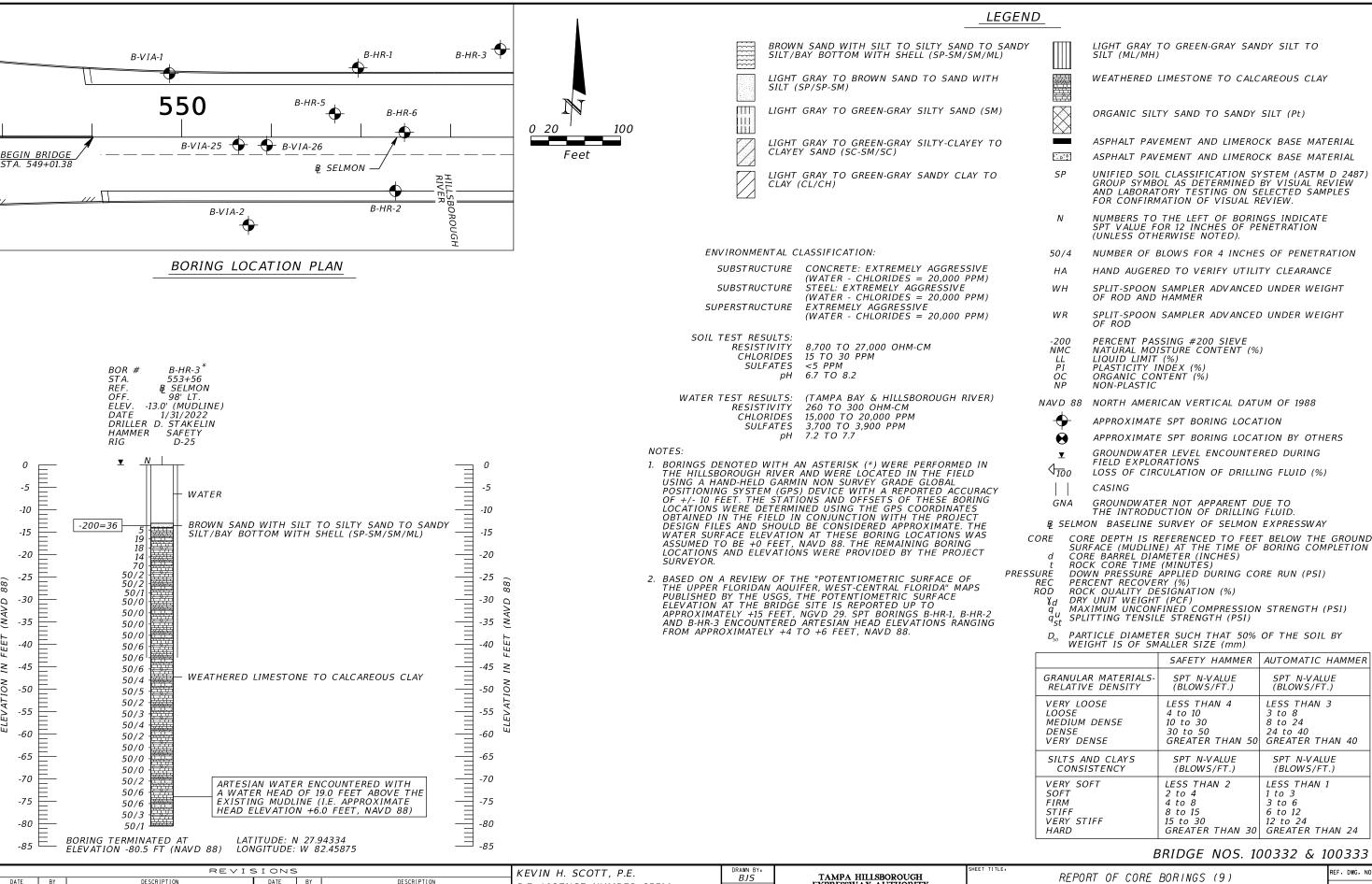
7/18/2022

DATE	BY DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	BJS CHECKED BY: DN	TAMPA HILLSB EXPRESSWAY AU	THORITY	REPORT OF CORE BORINGS (6) VIADUCT	REF. DWG. NO.
				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	BJS CHECKED BY: KHS	ROAD NO. COUNTY SR 618 HILLSBOROUGH	THEA PROJECT NO.	FROJECT NAME, SOUTH SELMON EXPRESSWAY IMPROVEMENTS FROM HIMES AVENUE TO WHITING STREET	SHEET NO.





	RE VI3	5 1 017			JKEVIN H. SCOTT, P.E.	BJS		TAMPA HILLSB	OPOLICH	l DED	ORT OF CORE BORINGS (8)	REF. DWG. NO.	1
DATE BY	DESCRIPTION	DATE	BY	DESCRIPTION	DE LICENCE NUMBER CEELA			XPRESSWAY AU		I NEF			1
					P.E. LICENSE NUMBER 65514	CHECKED BY		AFKLOWAIAC	JIIIORIII		V I ADUCT		1
		l			TIERRA, INC.	DN	ROAD NO.	COUNTY	THEA PROJECT NO.				4
		l			1	DESIGNED BY:	NOAD NO.	COUNTY	THEAT THOUSE THOS	PROJECT NAME:		SHEET NO.	1
		l			7351 TEMPLE TERRACE HIGHWAY	BJS		IIII CDODOUCII		SOUTH SE	LMON EXPRESSWAY IMPROVEMENTS		1
		l			TAMPA, FLORIDA 33637	CHECKED BY	SR 618	HILLSBOROUGH	HI-0012	FROM HI	MES AVENUE TO WHITING STREET		1
					TAMPA, FLUKIDA 33037	KHS				7 710 111 777	WES THE HOE TO WITH THO STREET		1
								bgarcio	7	7/18/2022 2:18:49 1	M J:\65 \202 Files\65 -2 - 69 THEA Master HNTB\TWO 7_South	Selmon Drilling Wic	crostation`



TIERRA, INC.

AUTOMATIC HAMMER

SPT N-VALUE (BLOWS/FT.)

LESS THAN 3

GREATER THAN 40

REF. DWG. NO

SPT N-VALUE

(BLOWS/FT.)

LESS THAN 1

3 to 8

8 to 24

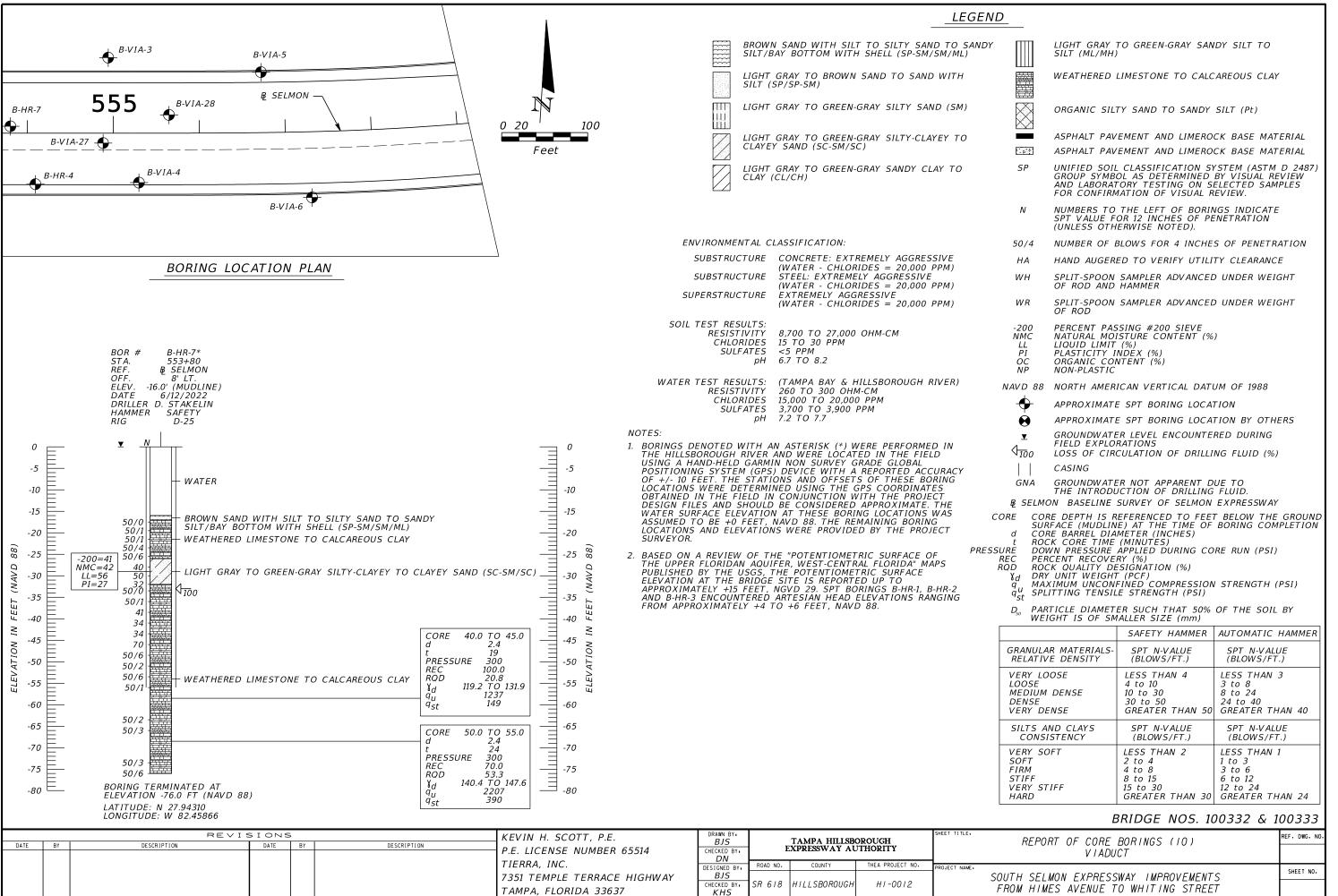
24 to 40

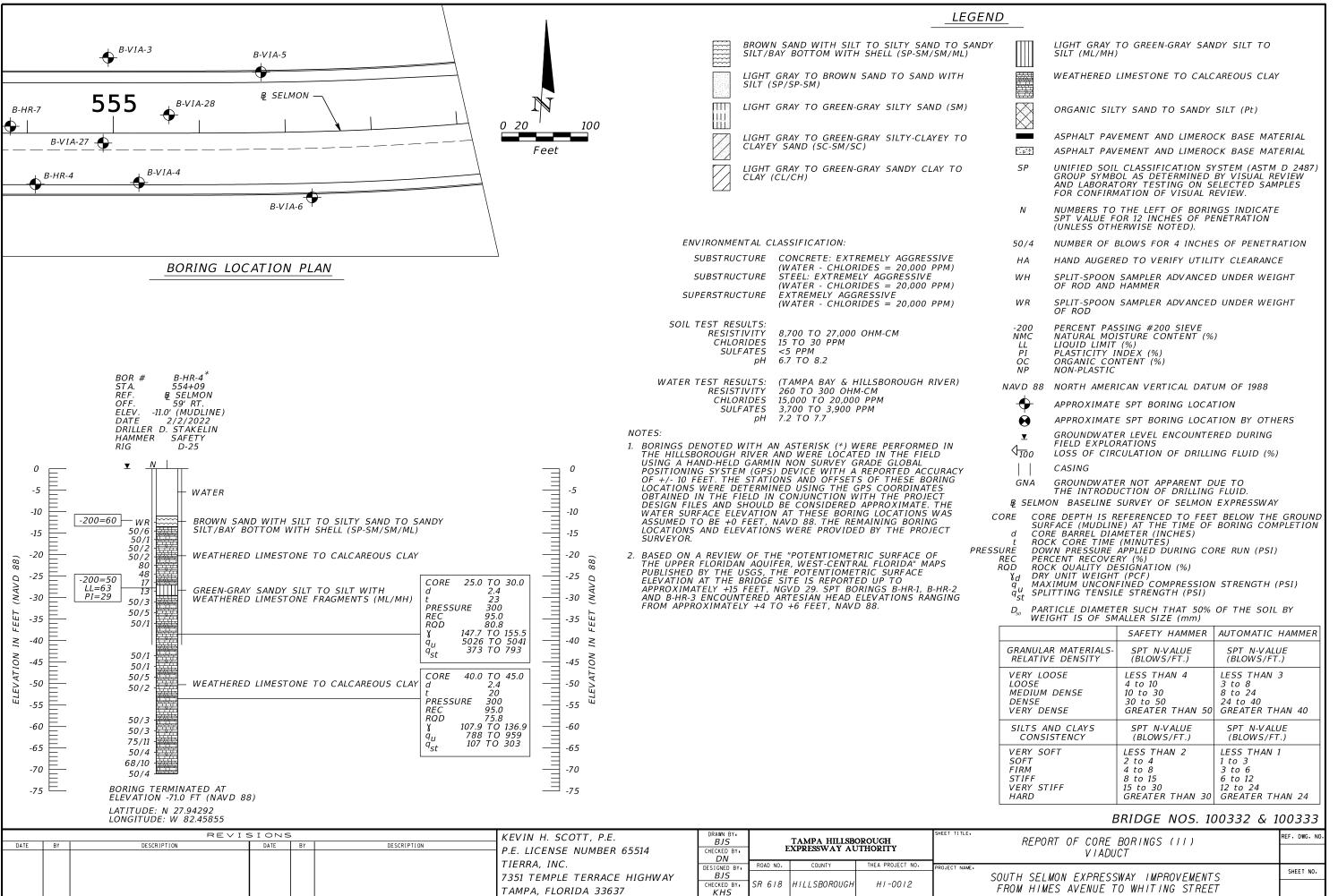
1 to 3

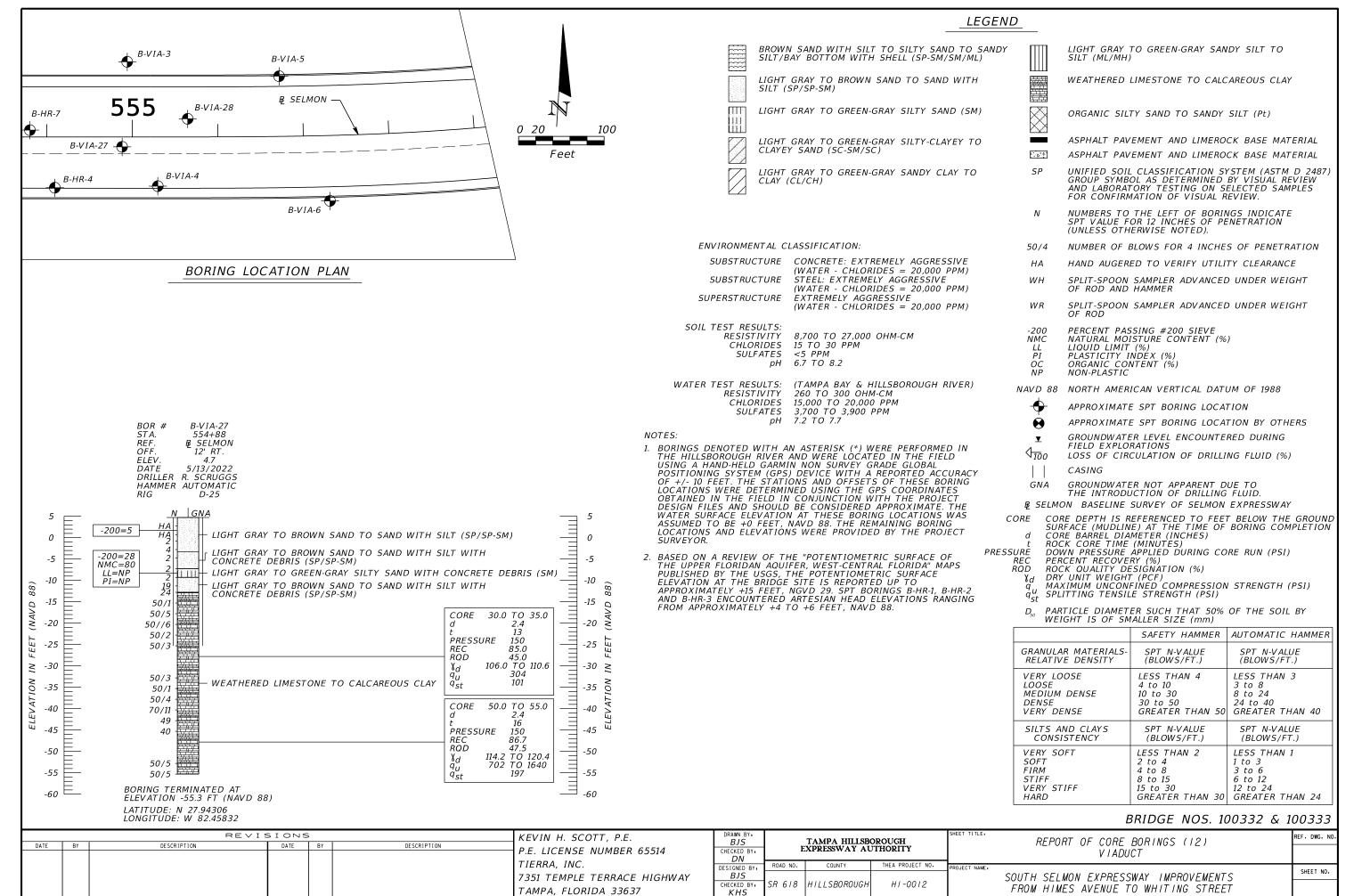
3 to 6

6 to 12

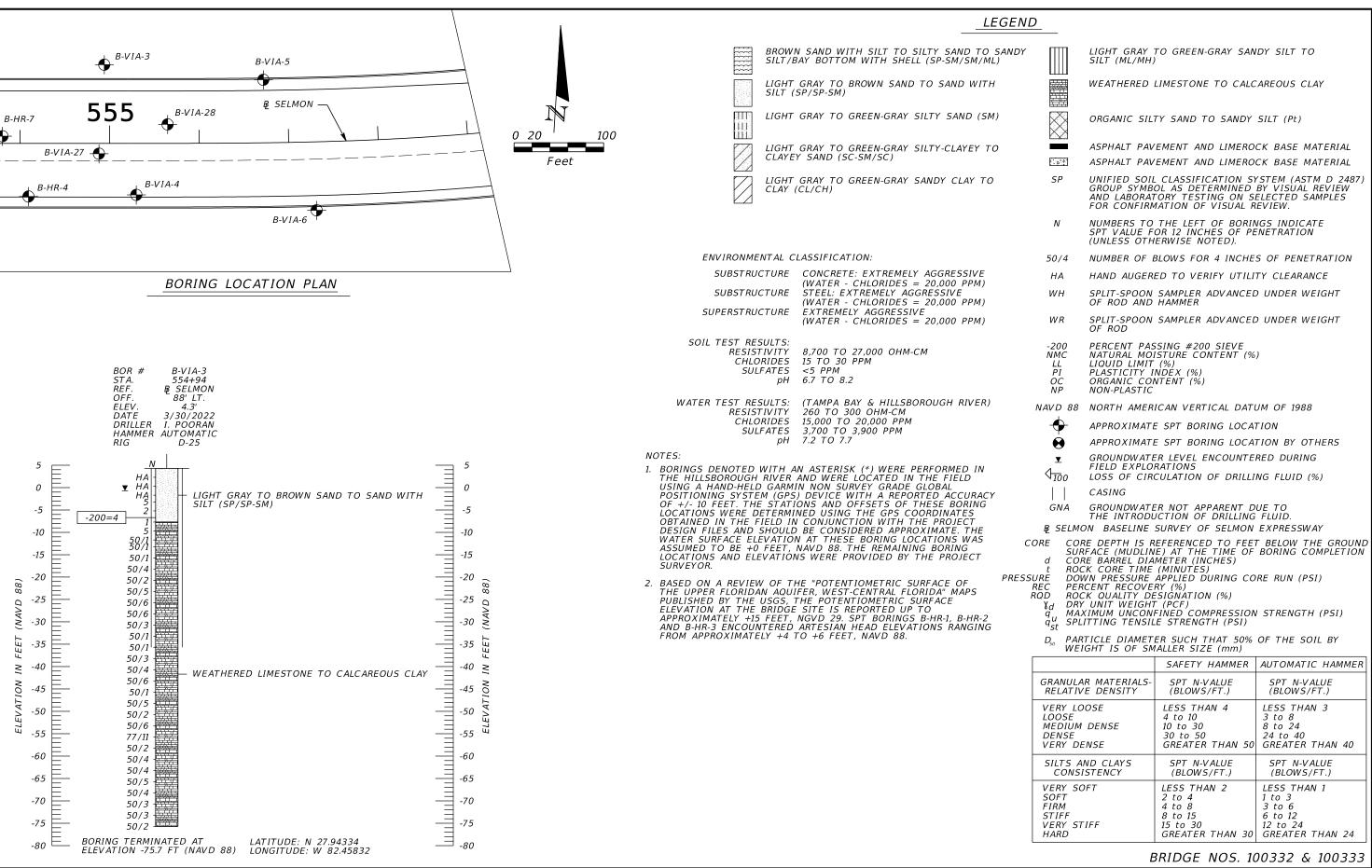
12 to 24







7/18/2022 2:18:52 PM J:\65II\2021 Files\65II-2I-169 THFA Master HNTB\TWO 7 South Selmon Drilling\Micro



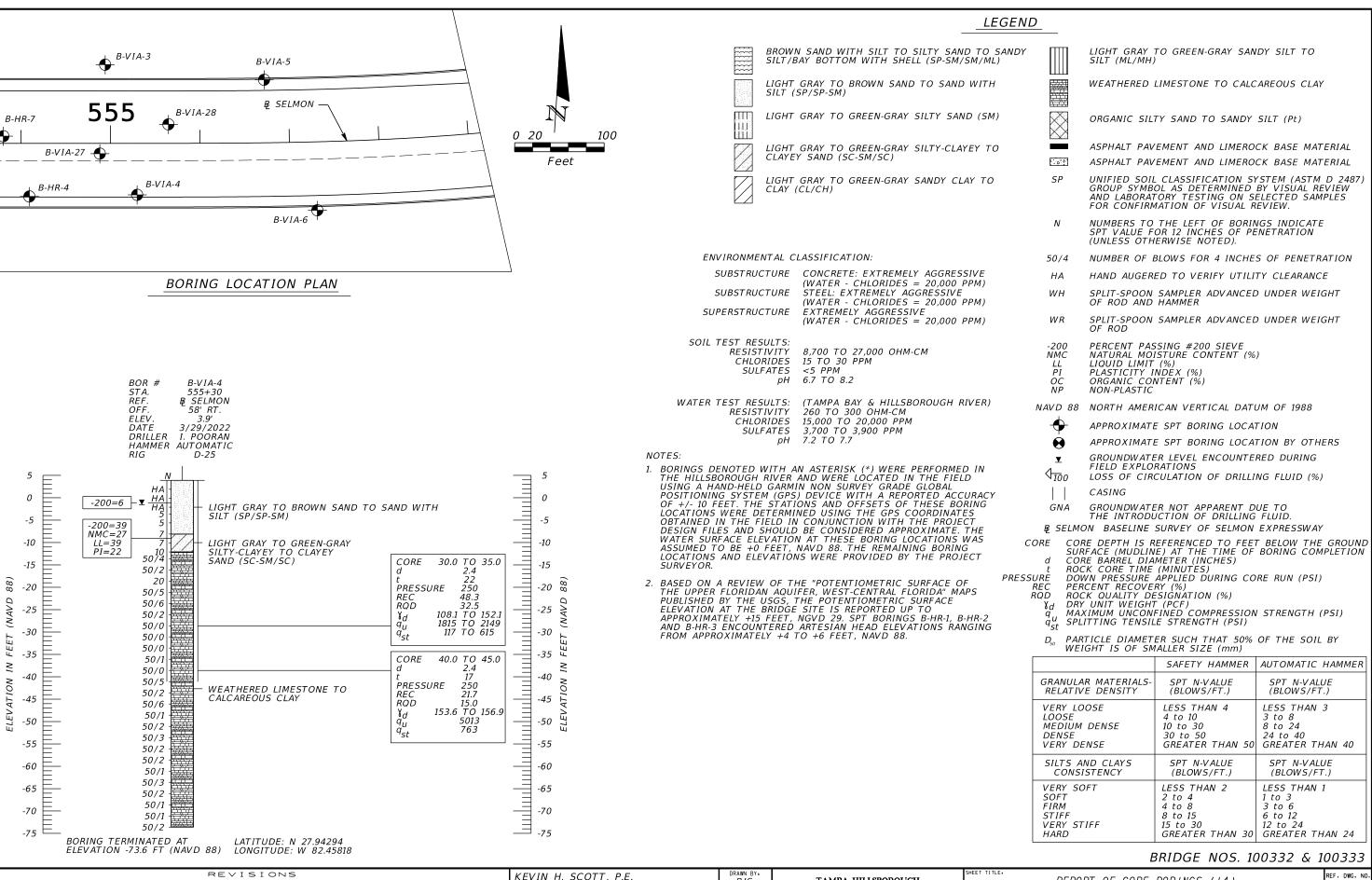
REF. DWG. NO

\perp	DATE BY	RE∨IS DESCRIPTION	DATE RY	DESCRIPTION	KEVIN H. SCOTT, P.E.	BJS		AMPA HILLSBO	ROUGH	SHEET TITLE:	REPORT	OF CORE BORINGS (13)	REF. DWG. NO	ა.
ı	DATE DI	DESCRIPTION	DATE DI	DESCRIPTION	P.E. LICENSE NUMBER 65514	CHECKED BY:	EXI	PRESSWAY AU	THORITY			V I ADUCT		
					TIERRA, INC.	DESIGNED BY.	ROAD NO.	COUNTY	THEA PROJECT NO.	PROJECT NAME:			SHEET NO.	1
					7351 TEMPLE TERRACE HIGHWAY	BJS CHECKED BY:	SR 618 H	ILLSBOROUGH	HI-0012	,		EXPRESSWAY IMPROVEMENTS		1
L					TAMPA, FLORIDA 33637	KHS				7 /18 /202		AVENUE TO WHITING STREET		ال

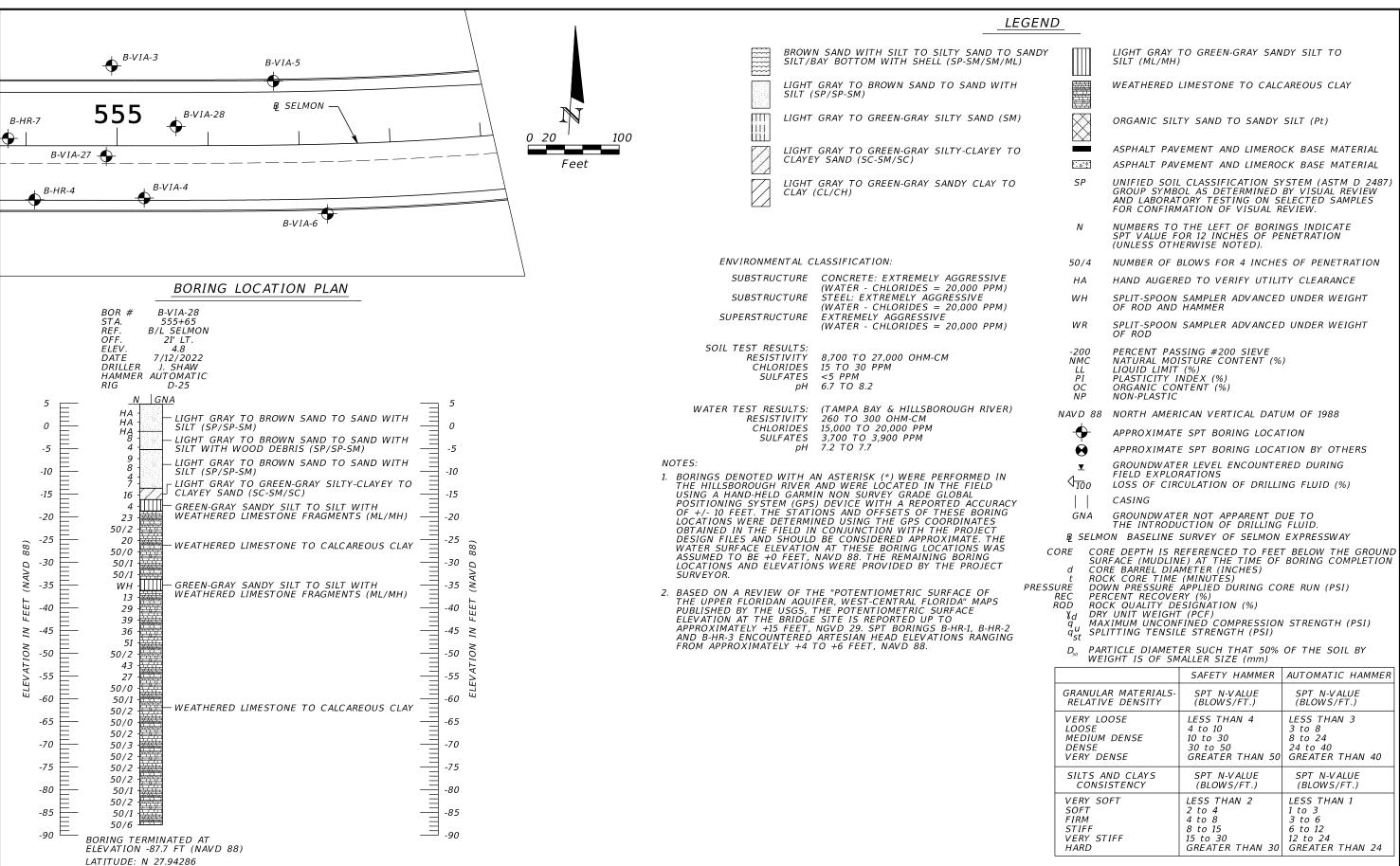
DRAWN BY:

KEVIN H SCOTT PE

REVISIONS

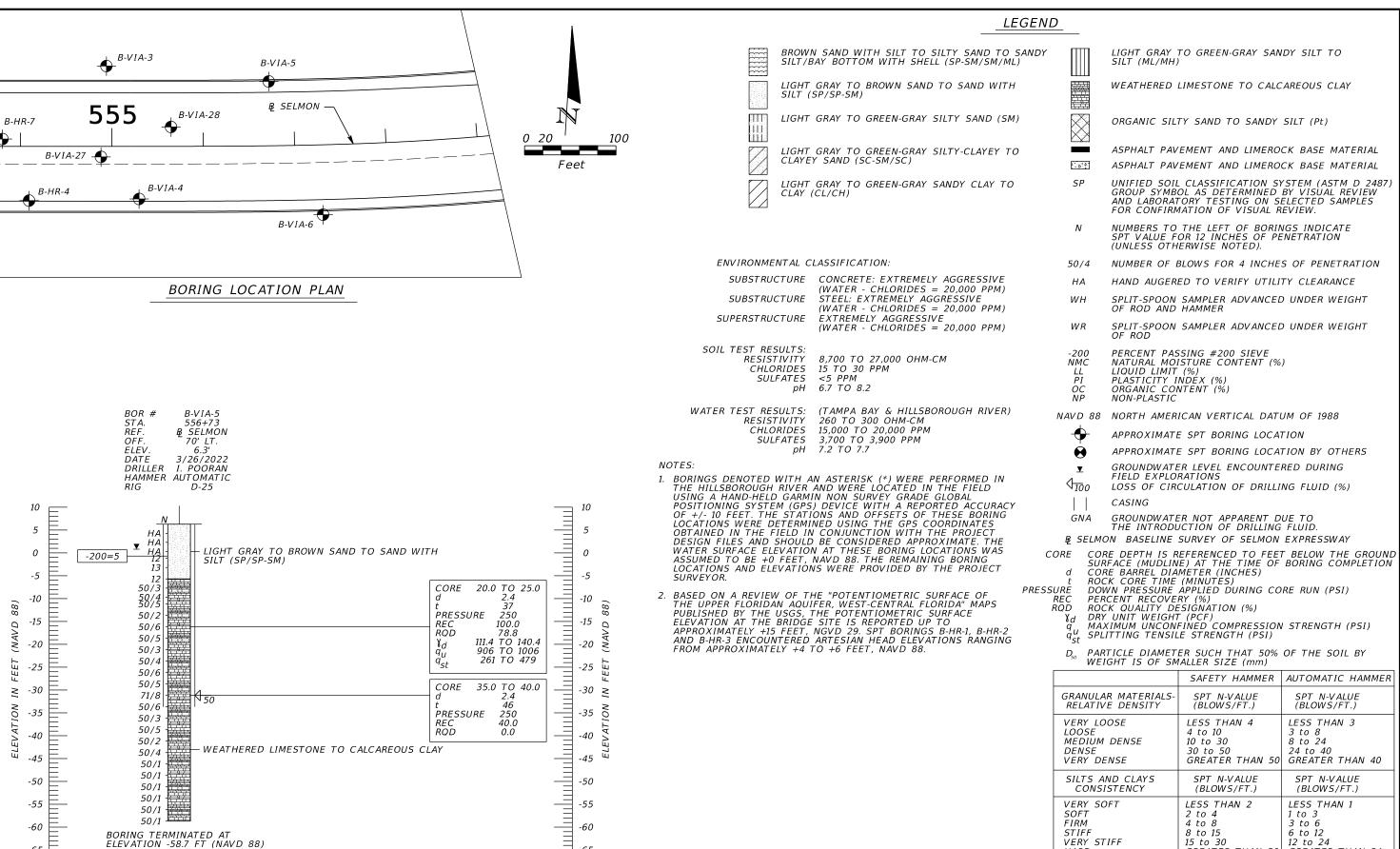


TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637 TAMPA, FLORIDA 33637 TIERRA, INC. 10 DESIGNED BY. 10 DESIGNED BY. 11 DESIGNED BY. 12 DESIGNED BY. 13 PROJECT NAME. 14 PROJECT NO. 15 PROJECT NAME. 16 PROJECT NAME. 17 SOUTH SELMON EXPRESSWAY IMPROVEMENTS 17 FROM HIMES AVENUE TO WHITING STREET	ŀ	DATE BY	DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	CHECKED BY:	F	TAMPA HILLSBO XPRESSWAY AU	THORITY	REPORT OF CORE BORINGS (14) VIADUCT	
TAMPA, FLORIDA 33637 CHECKED BY: KHS SR 618 HILLSBOROUGH HI-0012 FROM HIMES AVENUE TO WHITING STREET						1		ROAD NO.				SHEET NO.
	L						CHECKED BY:	SR 618	HILLSBOROUGH	HI-0012		



DATE BY DESCRIPTION DATE BY DESCRIPTION P.E. LICENSE NUMBER 65514 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637 TAMPA, FLORIDA 33637 P.E. LICENSE NUMBER 65514 FROM HILISBOROUGH REPORT OF CURE BORTINGS (15) VIADUCT REPORT OF CURE BORTINGS (15) VIADUCT SHEET NO. SHEET NO. SHEET NO. FROM HILLSBOROUGH FROM HIL		REVISIONS				KEVIN H. SCOTT, P.E.	DRAWN BY:		TAMPA HILLSB		REPORT OF CORE BORINGS (15)	REF. DWG. NO.	1
7351 TEMPLE TERRACE HIGHWAY BJS CHECKED BY: SR 6/8 HILLSBOROUGH HI-00/2 SOUTH SELMON EXPRESSWAY IMPROVEMENTS FROM HIMES AVENUE TO WHIT INC. STREET	DATE BY	DESCRIPTION	DATE	BY	DESCRIPTION		CHECKED BY:			THORITY			İ
CHECKED BY: SR 6/8 HILLSBURUUGH HI-0012 EDOM HIMES AVENUE TO MILITIAL STREET						l ·	BJS	ROAD NO.	COUNTY			SHEET NO.	I
						TAMPA, FLORIDA 33637	CHECKED BY: KHS	SR 618	HILLSBOROUGH	H1-0012			1

LONGITUDE: W 82.45827



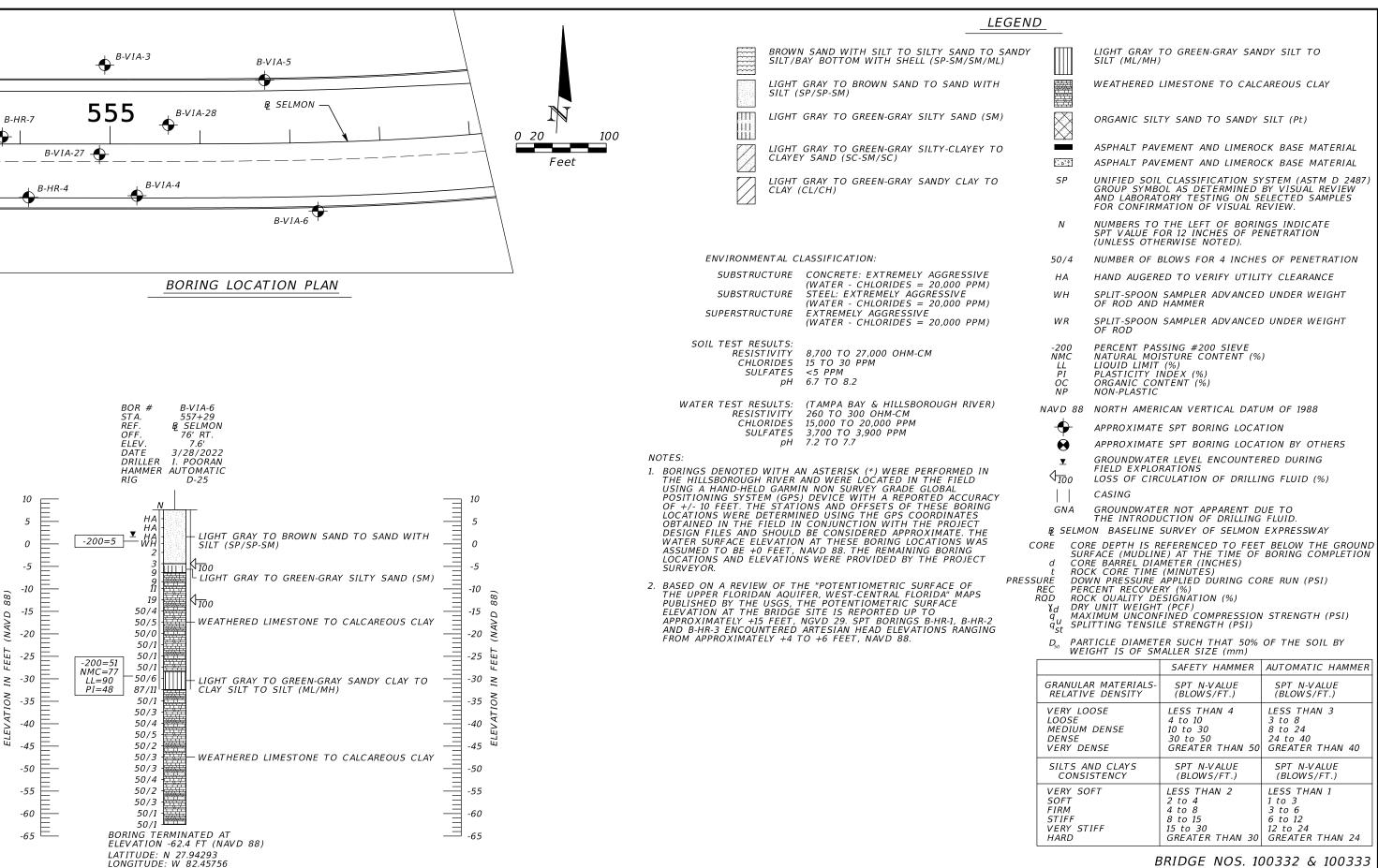
	REVIS	> 1 O N	5		KEVIN H. SCOTT, P.E.	DIC DIC		TAMPA HILLSBO	DOLICH	311001 111001	REPORT OF CORE BORINGS (16)	REF. DWG. NO.
DATE	BY DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	CHECKED BY:	- I	EXPRESSWAY AU				
					P.E. LICENSE NUMBER 03314	CHECKED BY:	1	211 11222 11 11 11 11 11 11 11 11 11 11	IIIORII I		V I ADUCT	
					TIERRA, INC.	DESIGNED BY	ROAD NO.	COUNTY	THEA PROJECT NO.	PROJECT NAME:		<u> </u>
					7351 TEMPLE TERRACE LUCUMAN	BJS				PROJECT NAME	COUTH CELMON EVODECOWAY INDDOVENENTS	SHEET NO.
					7351 TEMPLE TERRACE HIGHWAY	CHECKED BY:	SR 618	HILLSBOROUGH	HI-0012		SOUTH SELMON EXPRESSWAY IMPROVEMENTS	
					TAMPA, FLORIDA 33637	CHECKED BY:	311 010	ITTLLSBOTTOOOTT	111 0012		FROM HIMES AVENUE TO WHITING STREET	
				<u> </u>	,	11.15						

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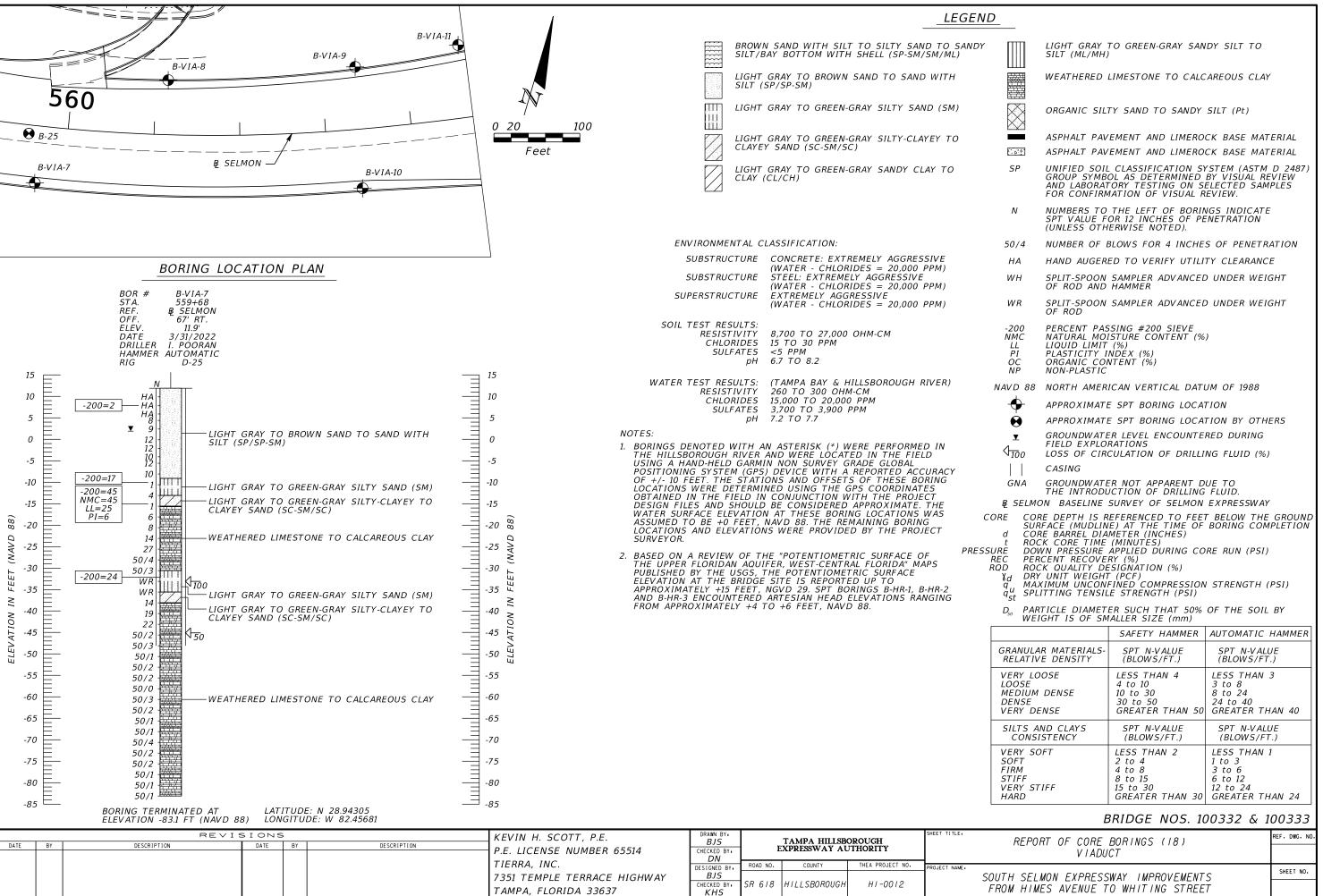
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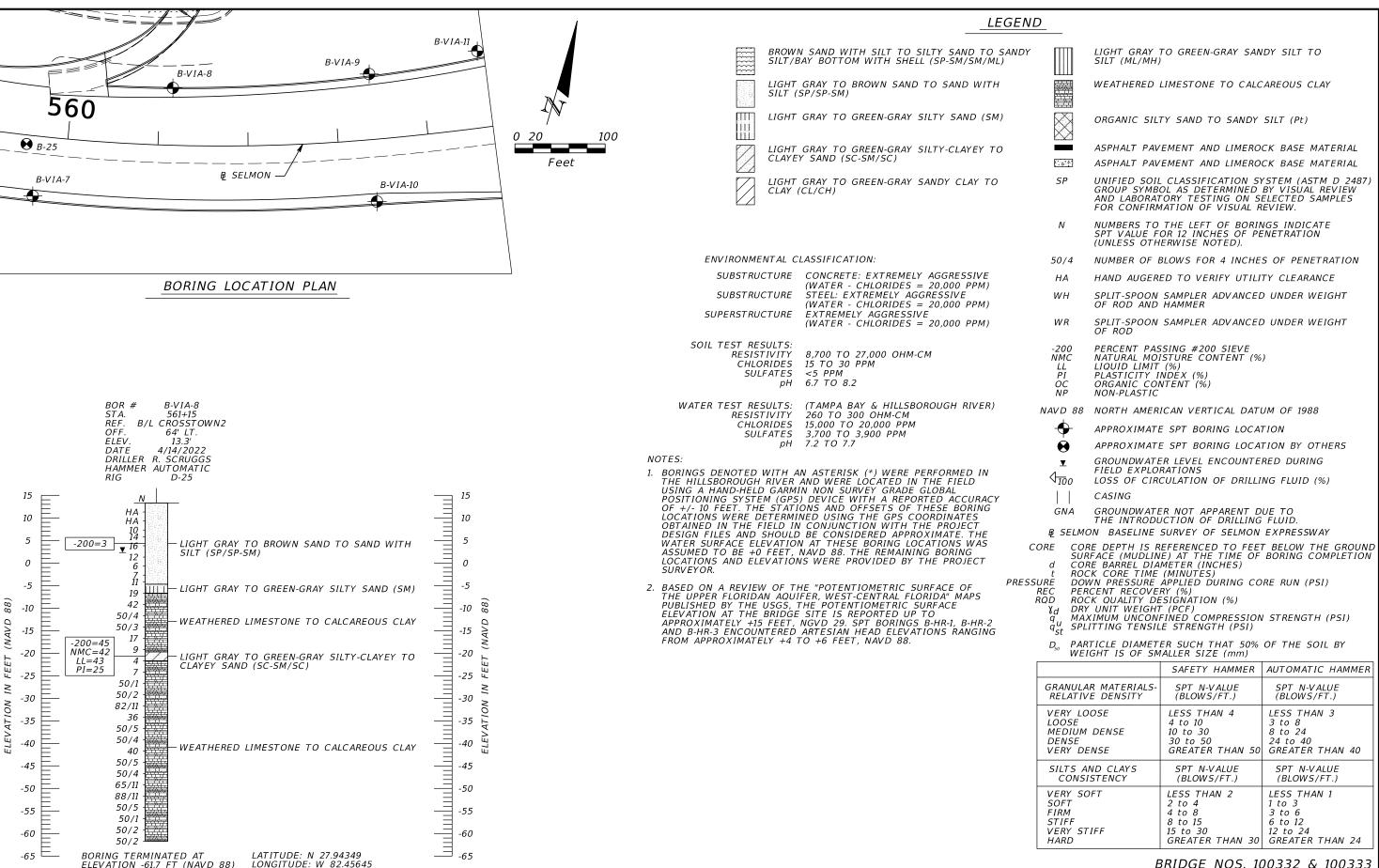
LATITUDE: N 27.94332 LONGITUDE: W 82.45777

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

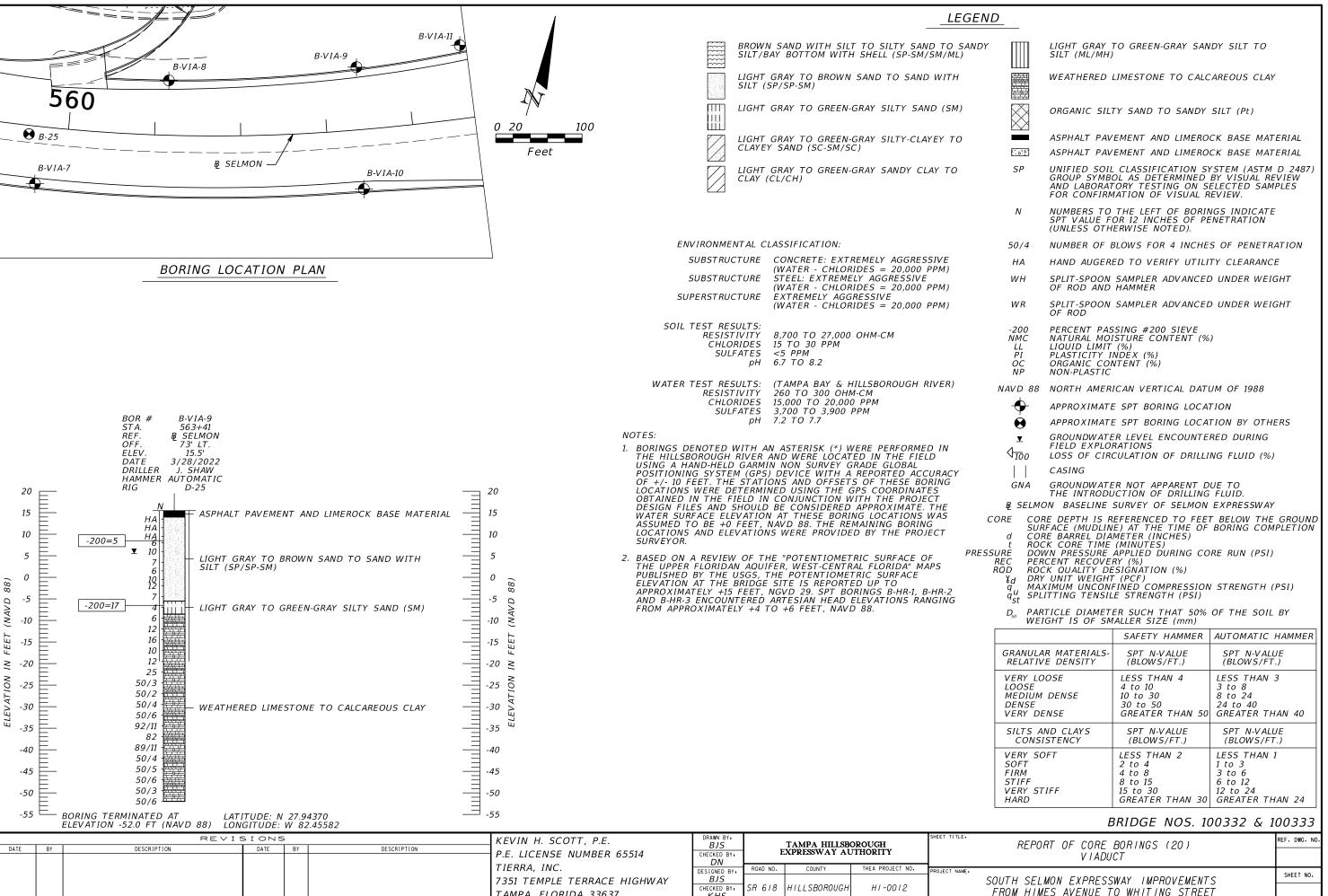


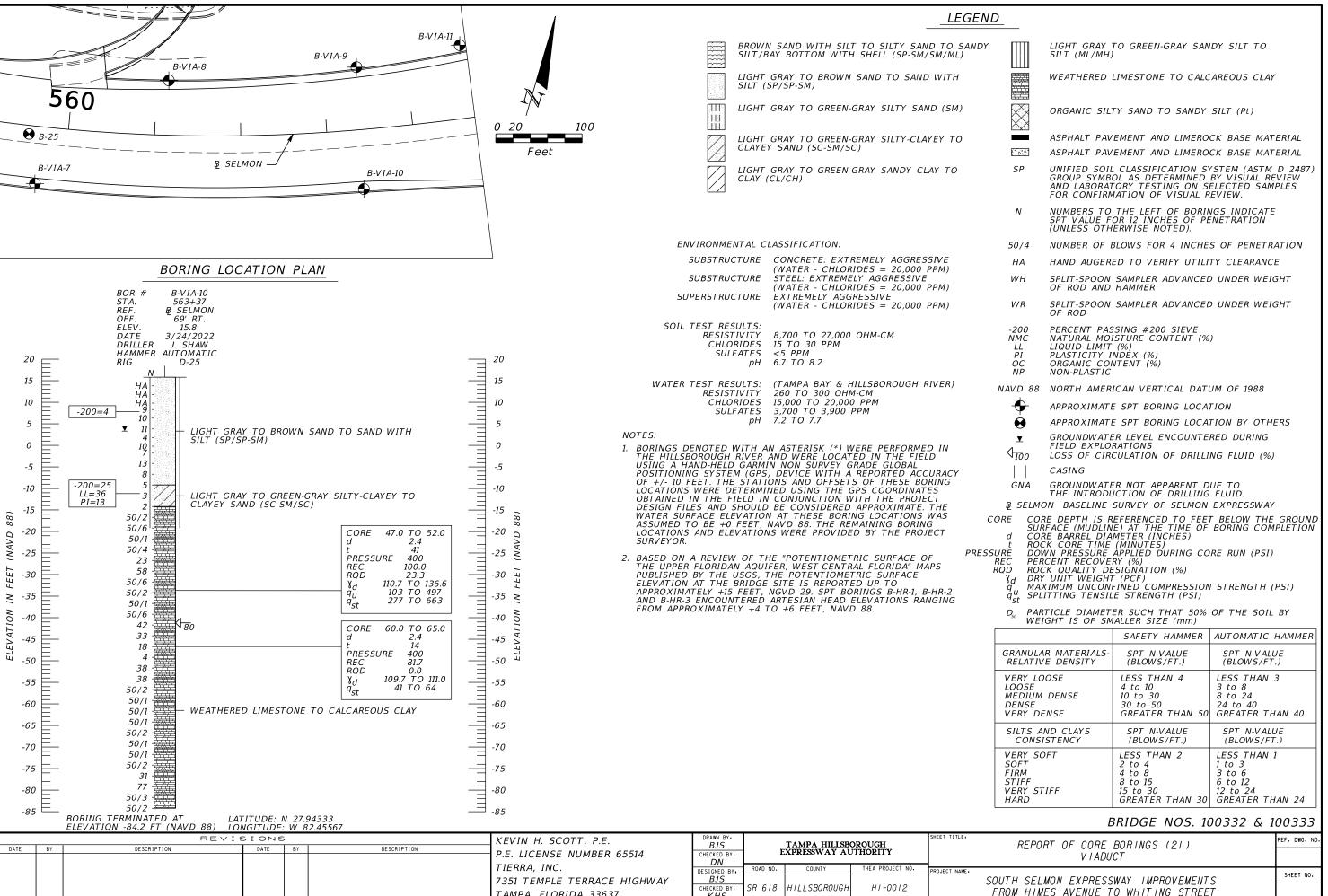
	REVIS	51075	5		KEVIN H. SCOTT, P.E.	DRAWN BY:	TAMPA HILLSBOROUGH	SHEET TITLE:	OF CORE PORTNOS (17)	REF. DWG. NO.
DATE	BY DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	CHECKED BY:	EXPRESSWAY AUTHORITY	KEFUKI	OF CORE BORINGS (17) VIADUCT	
					TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	BJS CHECKED BY: KHS	SR 618 HILLSBOROUGH HI-0012		N EXPRESSWAY IMPROVEMENTS S AVENUE TO WHITING STREET	SHEET NO.
							bgarcia	7/18/2022 2:18:56 PM	J:\65 \202 F1 es\65 -2 - 69 THEA Master HNTB\TWO 7	_South Selmon Drilling Wicrostation

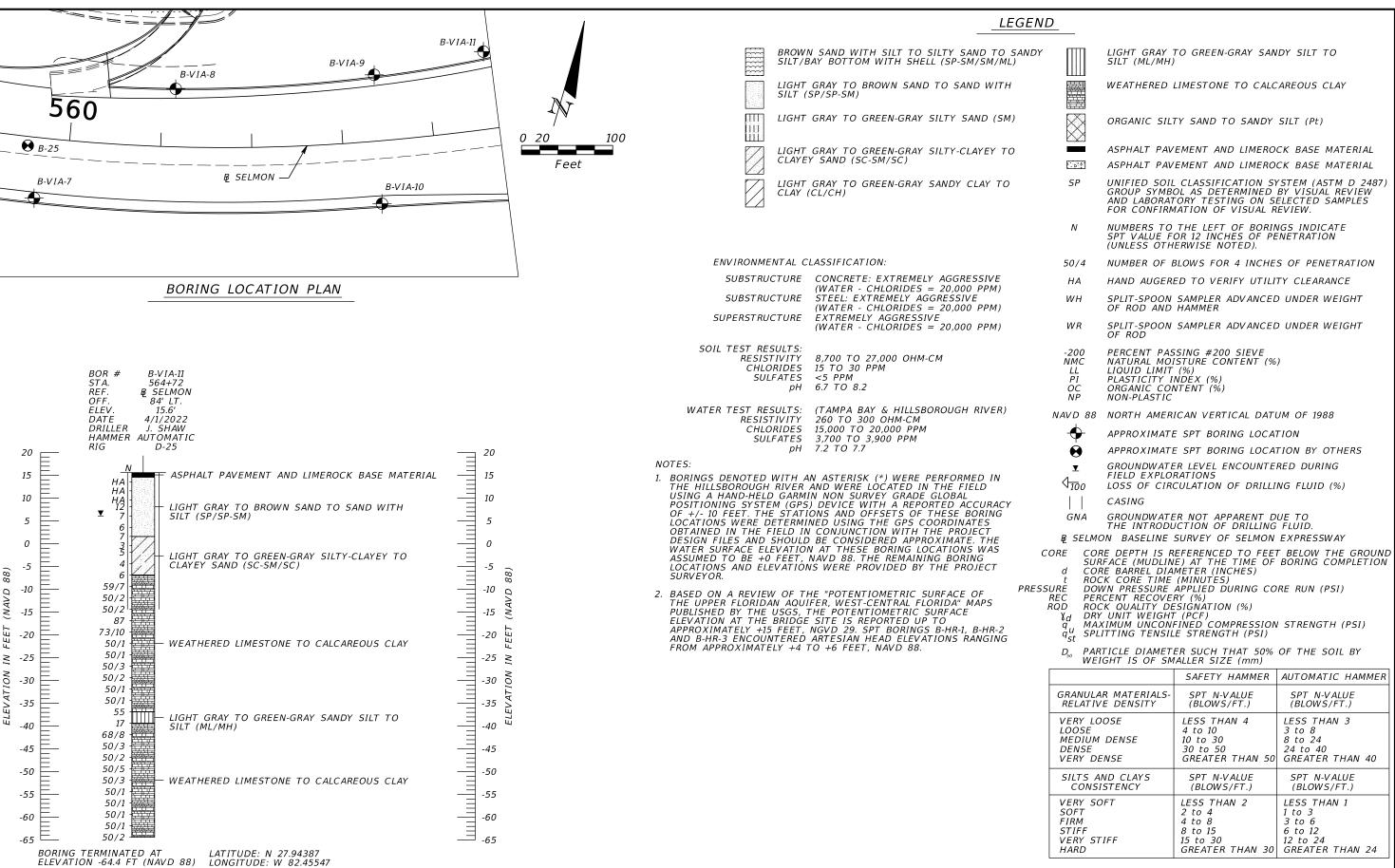




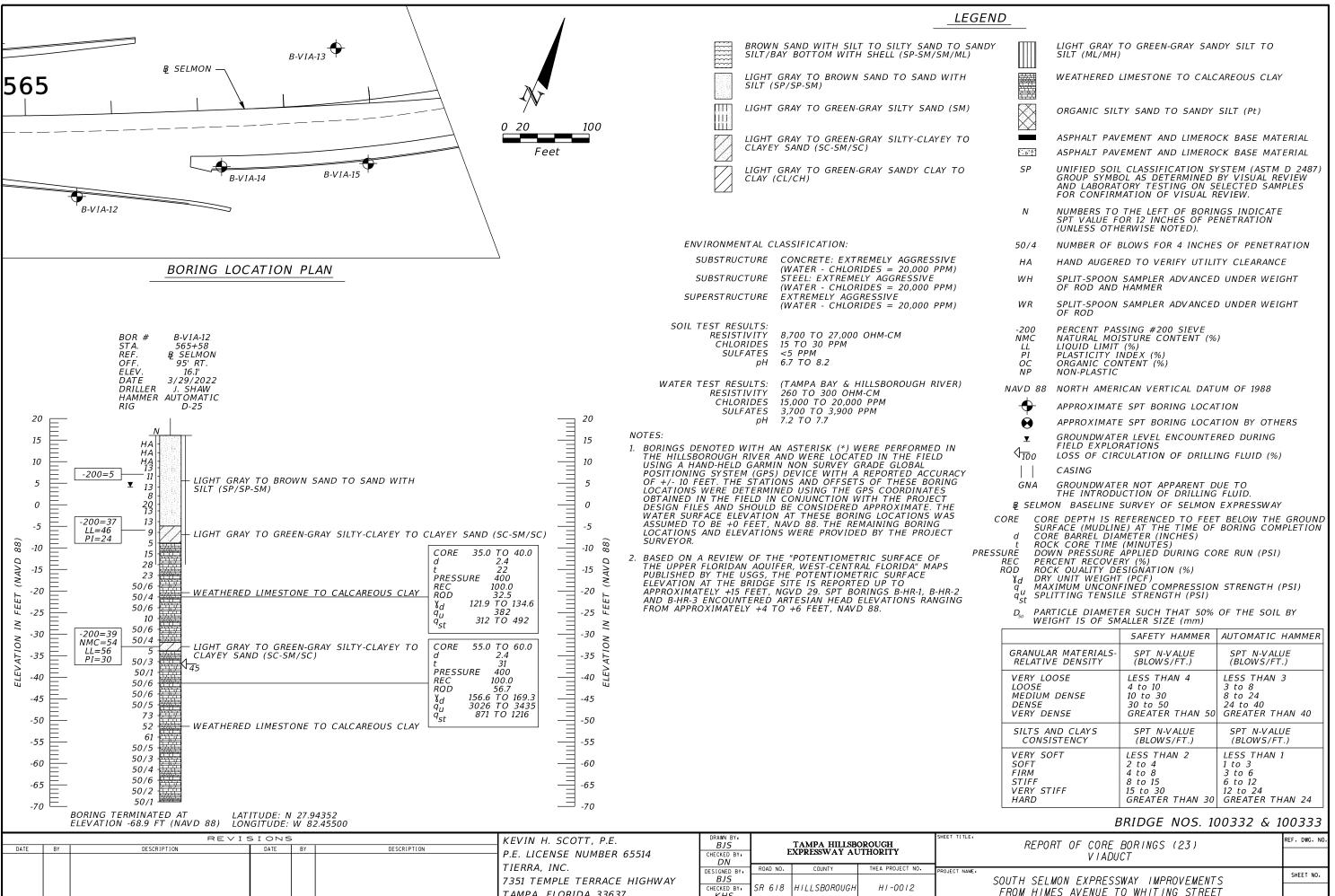
DATE	BY DESCRIPTION	DATE BY	DESCRIPTION	KEVIN H. SCOTT, P.E.	BJS	TAMPA HILLSB EXPRESSWAY AU		5,527 77,527	REPORT	OF CORE BORINGS (19)	REF. D	DWG. NO.
				P.E. LICENSE NUMBER 65514	CHECKED BY:			_		V I ADUCT		
				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY	DESIGNED BY:	ROAD NO. COUNTY	THEA PROJECT NO.	PROJECT NAME:	COUTH SELMON	N EXPRESSWAY IMPROVEMENTS	SHEF	EET NO.
				TAMPA. FLORIDA 33637	CHECKED BY:	SR 618 HILLSBOROUGH	HI-0012			AVENUE TO WHITING STREET		
				TAMIA, TEORIDA 33037	<u> </u> Kn3	bgarcio	1	7/18/2022	2:18:58 PM	J:\65 \202 F1 es\65 -2 - 69 THEA Master HNTB\TWO	10 7_South Selmon Dr	rilling Wicro

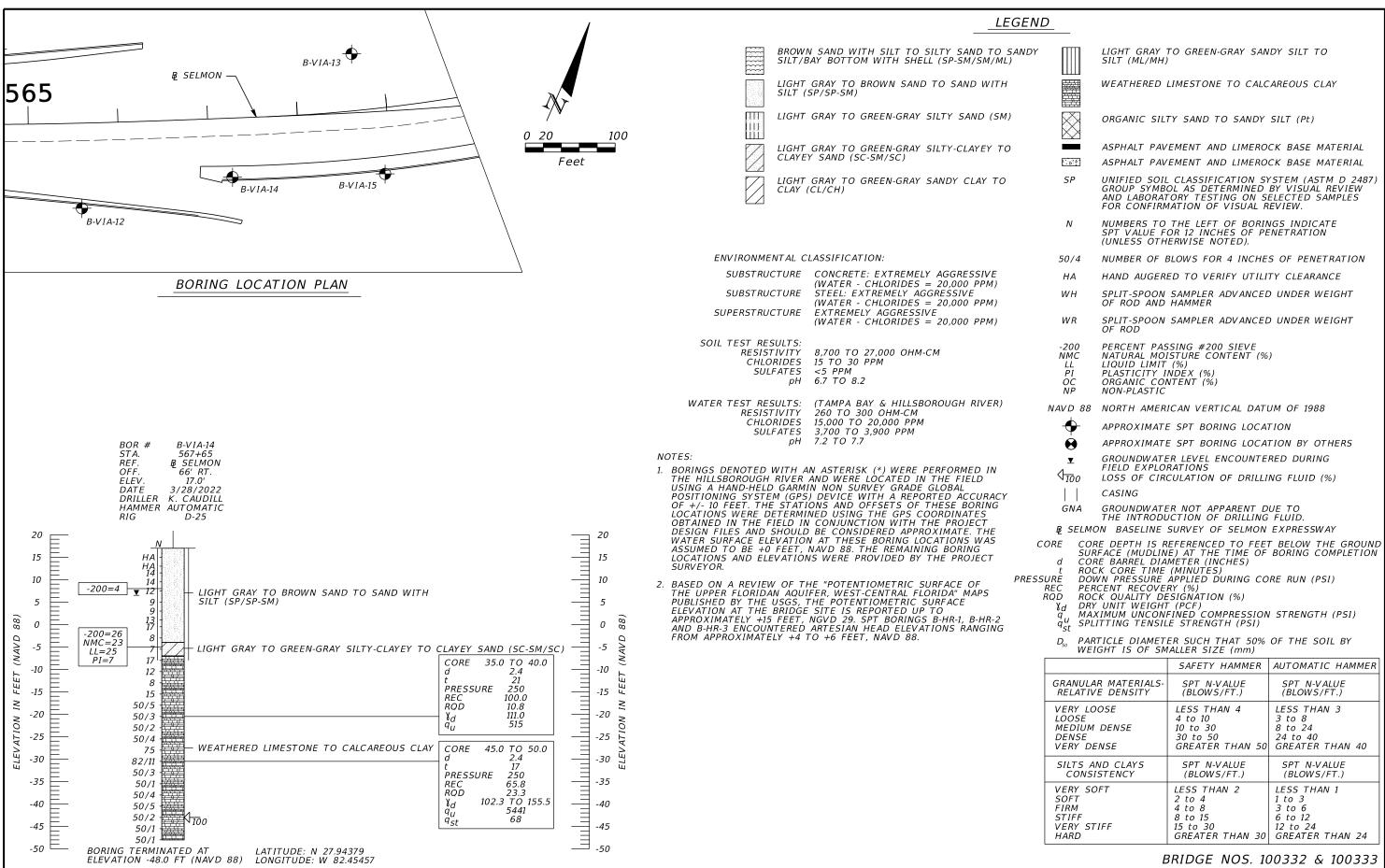




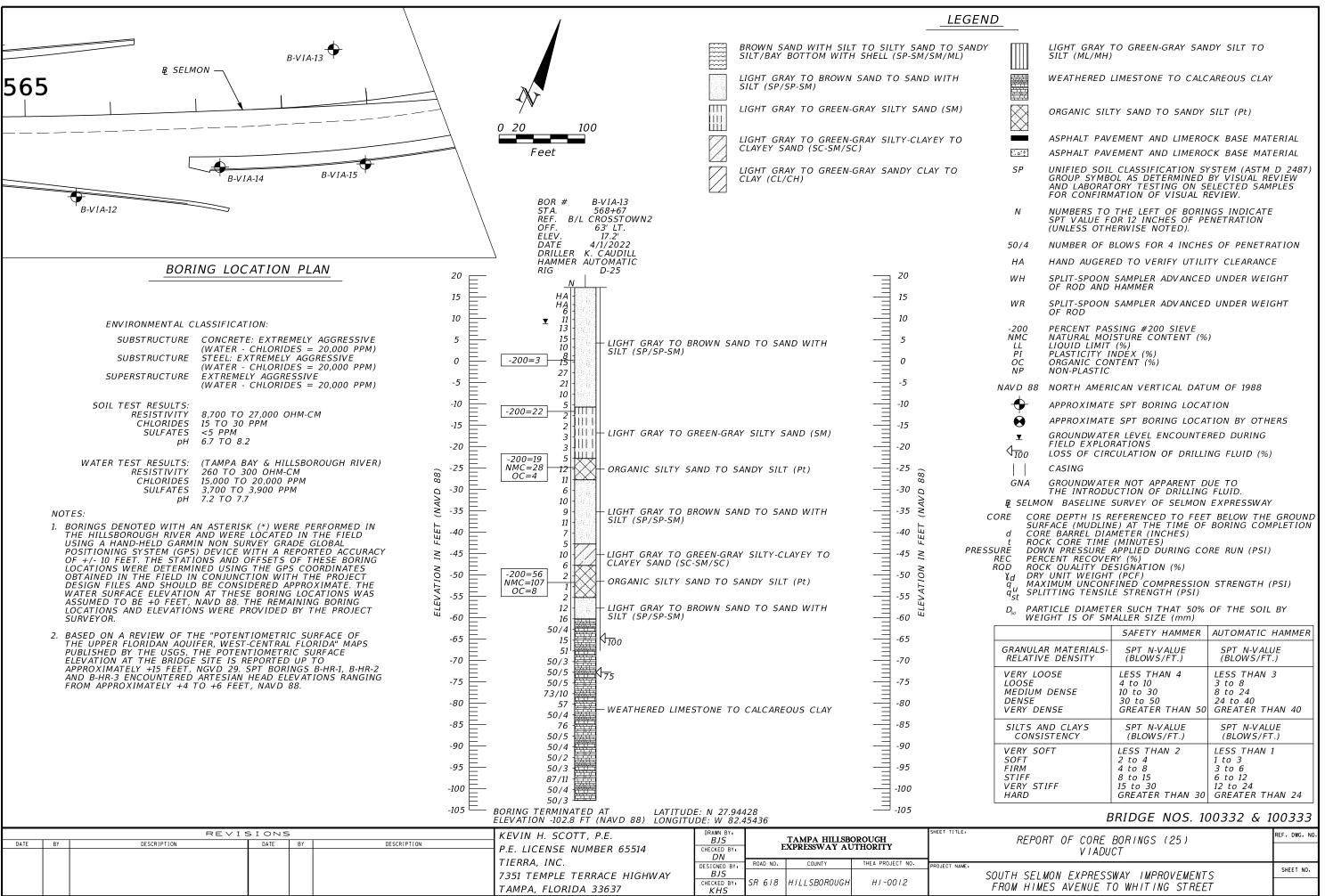


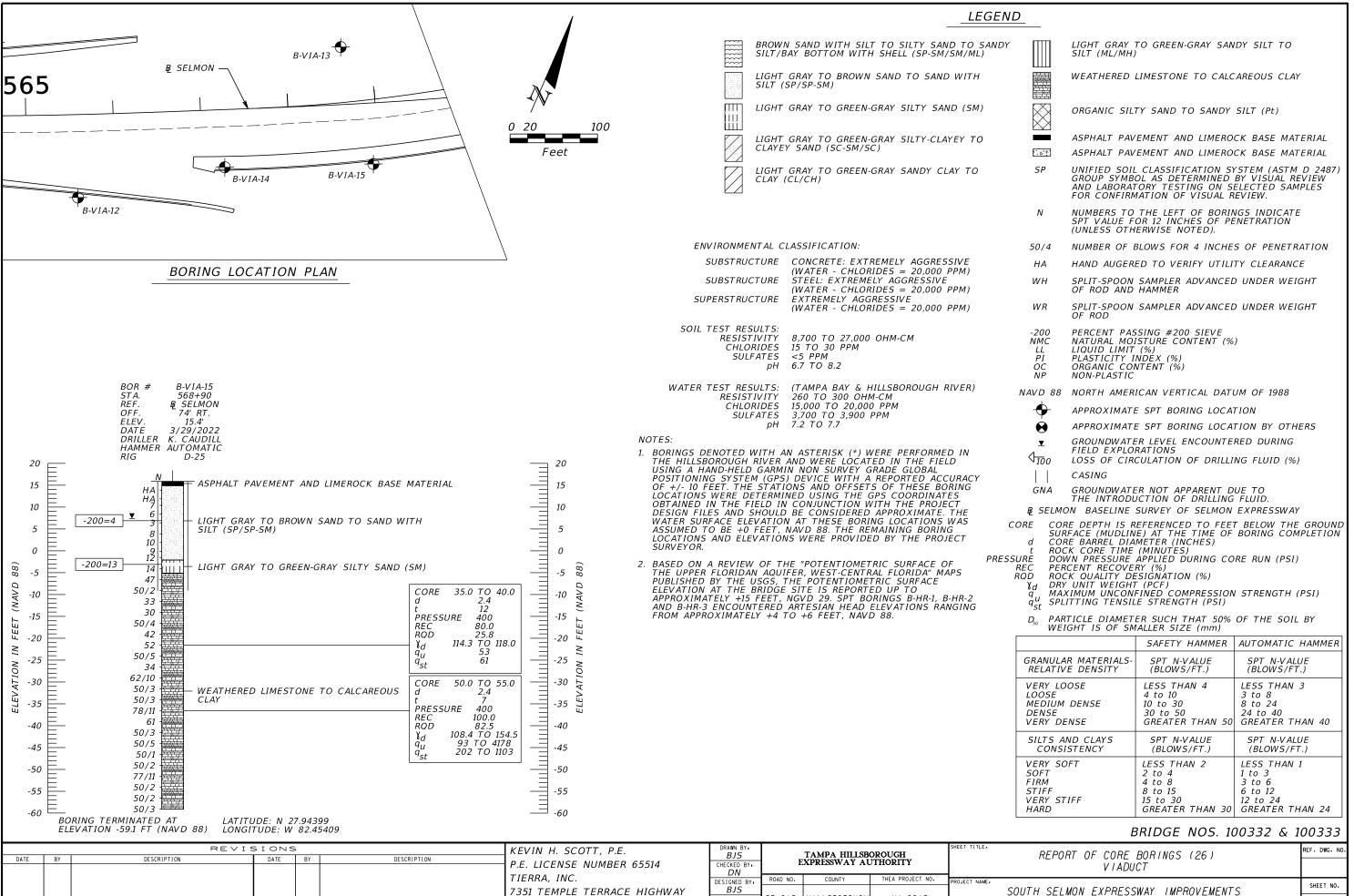
	REVISIONS	KEVIN H. SCOTT, P.E.	DIC	TAMPA HILLSBO	OPOLICH	DEDODT	OF CORE BORINGS (22)	REF. DWG. NO.	
DATE BY DESCRIPTION	DATE BY DES	P.E. LICENSE NUMBER 65514	CHECKED BY:	EXPRESSWAY AU	THORITY	LFORT	VIADUCT		
		TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY	DESIGNED BY:	ROAD NO. COUNTY	THEA PROJECT NO.	PROJECT NAME:	ON EXPRESSWAY IMPROVEMENTS	SHEET NO.	
		TAMPA, FLORIDA 33637		SR 618 HILLSBOROUGH	H1-0012		S AVENUE TO WHITING STREET		
	<u> </u>	<u> </u>	, ,,,,,,	bgarcia	,	7/18/2022 2:19:00 PM	J:\65 \202 Files\65 -2 - 69 THEA Master HNTB\TWO 7_Sout	h Selmon Drilling Wic	∎ crostation\Geo





DATE	BY DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	BJS CHECKED BY: DN	TAMPA HILLSB EXPRESSWAY AU	THORITY	REPORT OF CORE BORINGS (24) VIADUCT	REF. DWG. NO.
				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	BJS CHECKED BY: KHS	ROAD NO. COUNTY SR 618 HILLSBOROUGH	HI-0012	PROJECT NAME. SOUTH SELMON EXPRESSWAY IMPROVEMENTS FROM HIMES AVENUE TO WHITING STREET	SHEET NO.





TAMPA, FLORIDA 33637

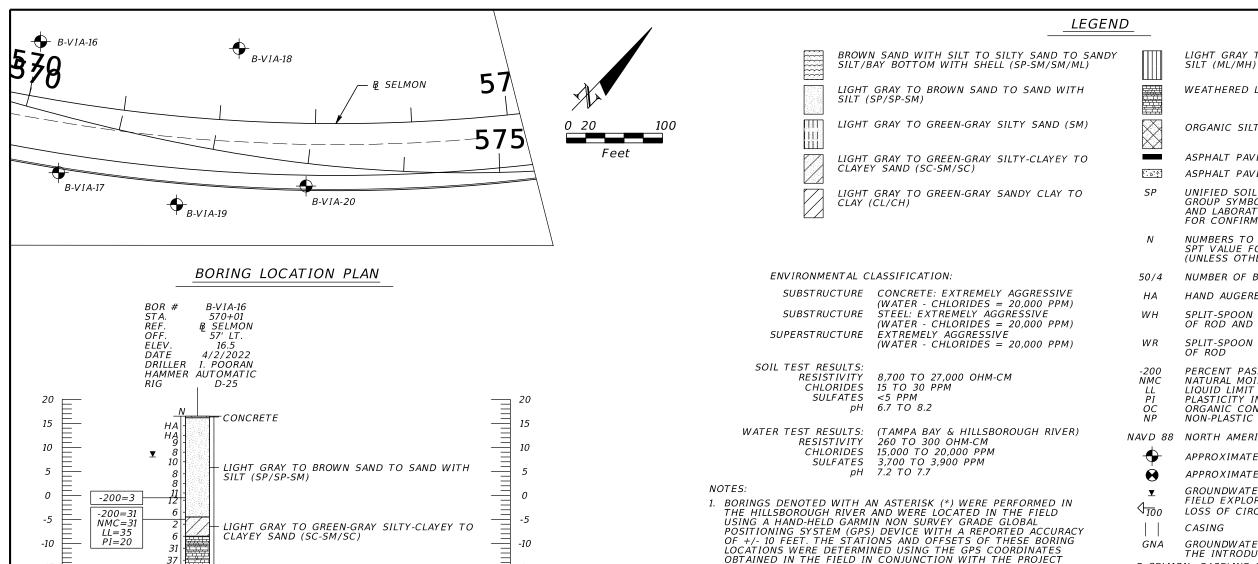
SOUTH SELMON EXPRESSWAY IMPROVEMENTS FROM HIMES AVENUE TO WHITING STREET

HI - 0012

SR 618

KHS

HILLSBOROUGI



-15

-20

-25 ≥

-30 -30 FEET

-35 ≥

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-80

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Q

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-80

-85

N -35 22

48

70

50/1

50/2

50/2

50/2

81/11

89

22

39

10

50/1 50/1

50/2 50/1

50/4 50/3

50/2 50/3

50/5 50/6

50/3 50/4

50/4 50/6

50/5

BORING TERMINATED AT

-200 = 31

LL=62

N50

- WEATHERED LIMESTONE TO CALCAREOUS CLAY

LIGHT GRAY TO GREEN-GRAY SILTY-CLAYEY TO

- WEATHERED LIMESTONE TO CALCAREOUS CLAY

LATITUDE: N 28.94446

CLAYEY SAND (SC-SM/SC)

ELEVATION -83.5 FT (NAVD 88) LONGITUDE: W 82.45401

- OBTAINED IN THE FIELD IN CONJUNCTION WITH THE PROJECT DESIGN FILES AND SHOULD BE CONSIDERED APPROXIMATE. THE WATER SURFACE ELEVATION AT THESE BORING LOCATIONS WAS ASSUMED TO BE +0 FEET, NAVD 88. THE REMAINING BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.
- 2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO APPROXIMATELY +15 FEET, NGVD 29. SPT BORINGS B-HR-1, B-HR-2 AND B-HR-3 ENCOUNTERED ARTESIAN HEAD ELEVATIONS RANGING FROM APPROXIMATELY +4 TO +6 FEET, NAVD 88

LIGHT GRAY TO GREEN-GRAY SANDY SILT TO

WEATHERED LIMESTONE TO CALCAREOUS CLAY

ORGANIC SILTY SAND TO SANDY SILT (Pt)

ASPHALT PAVEMENT AND LIMEROCK BASE MATERIAL ASPHALT PAVEMENT AND LIMEROCK BASE MATERIAL

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

HAND AUGERED TO VERIFY UTILITY CLEARANCE

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT

PERCENT PASSING #200 SIEVE NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) PLASTICITY INDEX (%) ORGANIC CONTENT (%)

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION

APPROXIMATE SPT BORING LOCATION BY OTHERS

GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

LOSS OF CIRCULATION OF DRILLING FLUID (%)

GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID.

B SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION CORE BARREL DIAMETER (INCHES) CORE

ROCK CORE TIME (MINUTES)

PRESSURE DOWN PRESSURE APPLIED DURING CORE RUN (PSI) PERCENT RECOVERY (%)

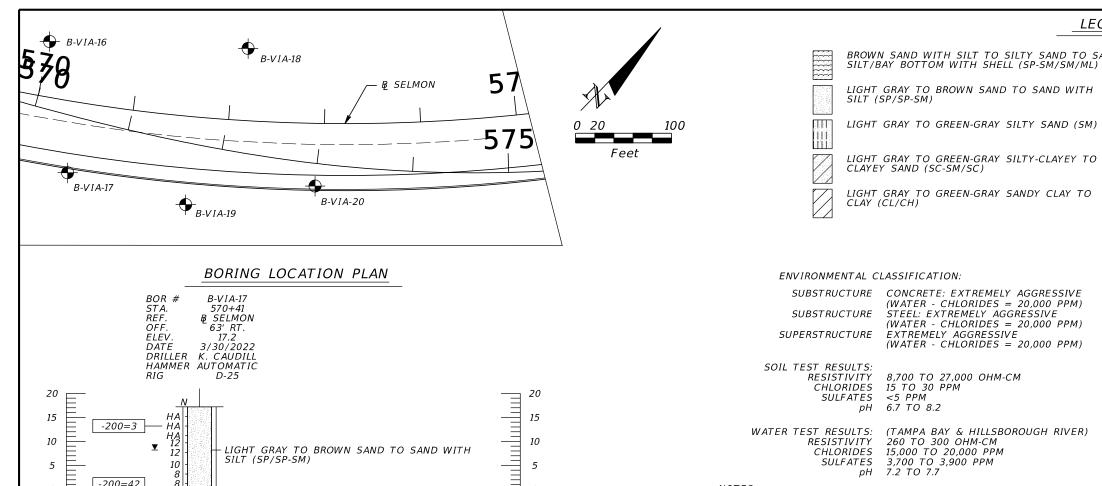
ROCK QUALITY DESIGNATION (%) DRY UNIT WEIGHT (PCF)

٧d MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI) SPLITTING TENSILE STRENGTH (PSI)

PARTICLE DIAMETER SUCH THAT 50% OF THE SOIL BY WEIGHT IS OF SMALLER SIZE (mm)

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

	REVIS	SIONS		KEVIN H. SCOTT, P.E.	DRAWN BY:		TAMPA HILLSB	OBOLICH	SHEET TITLE:	REPORT OF CORE BORINGS (27)	REF. DWG. NO.
DATE BY	DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	CHECKED BY:		EXPRESSWAY AU			VIADUCT	
				TIERRA, INC.		ROAD NO.	COUNTY	THEA PROJECT NO.			
				7351 TEMPLE TERRACE HIGHWAY	DESIGNED BY:	110110 1101			PROJECT NAME:	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.
				TAMPA, FLORIDA 33637	CHECKED BY:	SR 618	HILLSBOROUGH	HI-0012		FROM HIMES AVENUE TO WHITING STREET	



LIGHT GRAY TO GREEN-GRAY SILTY-CLAYEY TO

-WEATHERED LIMESTONE TO CALCAREOUS CLAY

LATITUDE: N 28.94425

LONGITUDE: W 82.45370

CLAYEY SAND (SC-SM/SC)

0

-10

-15

-20 Q

-25 N

-35 ≥

-40 NO

-45 AT

-50

-55

-60

-65

-70

-75

-80

-85

-30

88

0

-5

-10

-15

-20

-25

-30

-40

-45

-50

-55

-60

-65

-70

-75

-80

-85

NMC = 31

LL=39

PI=24

50/5

50/6

52

37

26

16

36

45

50/2

50/3

50/5

82/11

50/3

50/4

50/2

53

26 50/4

27

22

63

50/3

50/5 80/9

50/4 86

50/2 50/1

50/3 50/1

50/1

100

ELEVATION -82.8 FT (NAVD 88)

NOTES:

- BORINGS DENOTED WITH AN ASTERISK (*) WERE PERFORMED IN THE HILLSBOROUGH RIVER AND WERE LOCATED IN THE FIELD USING A HAND-HELD GARMIN NON SURVEY GRADE GLOBAL POSITIONING SYSTEM (GPS) DEVICE WITH A REPORTED ACCURACY OF +/- 10 FEET. THE STATIONS AND OFFSETS OF THESE BORING LOCATIONS WERE DETERMINED USING THE GPS COORDINATES OBTAINED IN THE FIELD IN CONJUNCTION WITH THE PROJECT DESIGN FILES AND SHOULD BE CONSIDERED APPROXIMATE. THE WATER SURFACE ELEVATION AT THESE BORING LOCATIONS WAS ASSUMED TO BE +0 FEET, NAVD 88. THE REMAINING BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.
- THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE
 ELEVATION AT THE BRIDGE SITE IS REPORTED UP TO
 APPROXIMATELY +15 FEET, NGVD 29. SPT BORINGS B-HR-1, B-HR-2
 AND B-HR-3 ENCOUNTERED ARTESIAN HEAD ELEVATIONS RANGING

BROWN SAND WITH SILT TO SILTY SAND TO SANDY

LEGEND

٠٥.

SP

HA

LIGHT GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)

LIGHT GRAY TO GREEN-GRAY SILTY SAND (SM)

LIGHT GRAY TO GREEN-GRAY SILTY-CLAYEY TO CLAYEY SAND (SC-SM/SC)

LIGHT GRAY TO GREEN-GRAY SANDY CLAY TO CLAY (CL/CH)

SUBSTRUCTURE CONCRETE: EXTREMELY AGGRESSIVE (WATER - CHLORIDES = 20,000 PPM)STEEL: EXTREMELY AGGRESSIVE (WATER - CHLORIDES = 20,000 PPM) EXTREMELY AGGRESSIVE (WATER - CHLORIDES = 20,000 PPM)

8,700 TO 27,000 OHM-CM CHLORIDES 15 TO 30 PPM <5 PPM 6.7 TO 8.2

WATER TEST RESULTS: (TAMPA BAY & HILLSBOROUGH RIVER) 260 TO 300 OHM-CM 15,000 TO 20,000 PPM 3,700 TO 3,900 PPM 7.2 TO 7.7

2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF FROM APPROXIMATELY +4 TO +6 FEET, NAVD 88

LIGHT GRAY TO GREEN-GRAY SANDY SILT TO SILT (ML/MH)

WEATHERED LIMESTONE TO CALCAREOUS CLAY

ORGANIC SILTY SAND TO SANDY SILT (Pt)

ASPHALT PAVEMENT AND LIMEROCK BASE MATERIAL ASPHALT PAVEMENT AND LIMEROCK BASE MATERIAL

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION Ν (UNLESS OTHERWISE NOTED).

50/4 NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

HAND AUGERED TO VERIFY UTILITY CLEARANCE

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT WHOF ROD AND HAMMER

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT WROF ROD

PERCENT PASSING #200 SIEVE -200 NMC NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) PLASTICITY INDEX (%) ORGANIC CONTENT (%) PΙ оc NON-PLASTIC

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

₳ APPROXIMATE SPT BORING LOCATION

APPROXIMATE SPT BORING LOCATION BY OTHERS

GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

√100 LOSS OF CIRCULATION OF DRILLING FLUID (%)

CASING

GNAGROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID.

B SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

CORE DEPTH IS REFERENCED TO FEET BELOW THE GROUND SURFACE (MUDLINE) AT THE TIME OF BORING COMPLETION CORE BARREL DIAMETER (INCHES) CORE

ROCK CORE TIME (MINUTES)

PRESSURE DOWN PRESSURE APPLIED DURING CORE RUN (PSI) PERCENT RECOVERY (%)

ROCK QUALITY DESIGNATION (%) DRY UNIT WEIGHT (PCF)

MAXIMUM UNCONFINED COMPRESSION STRENGTH (PSI) SPLITTING TENSILE STRENGTH (PSI)

PARTICLE DIAMETER SUCH THAT 50% OF THE SOIL BY WEIGHT IS OF SMALLER SIZE (mm)

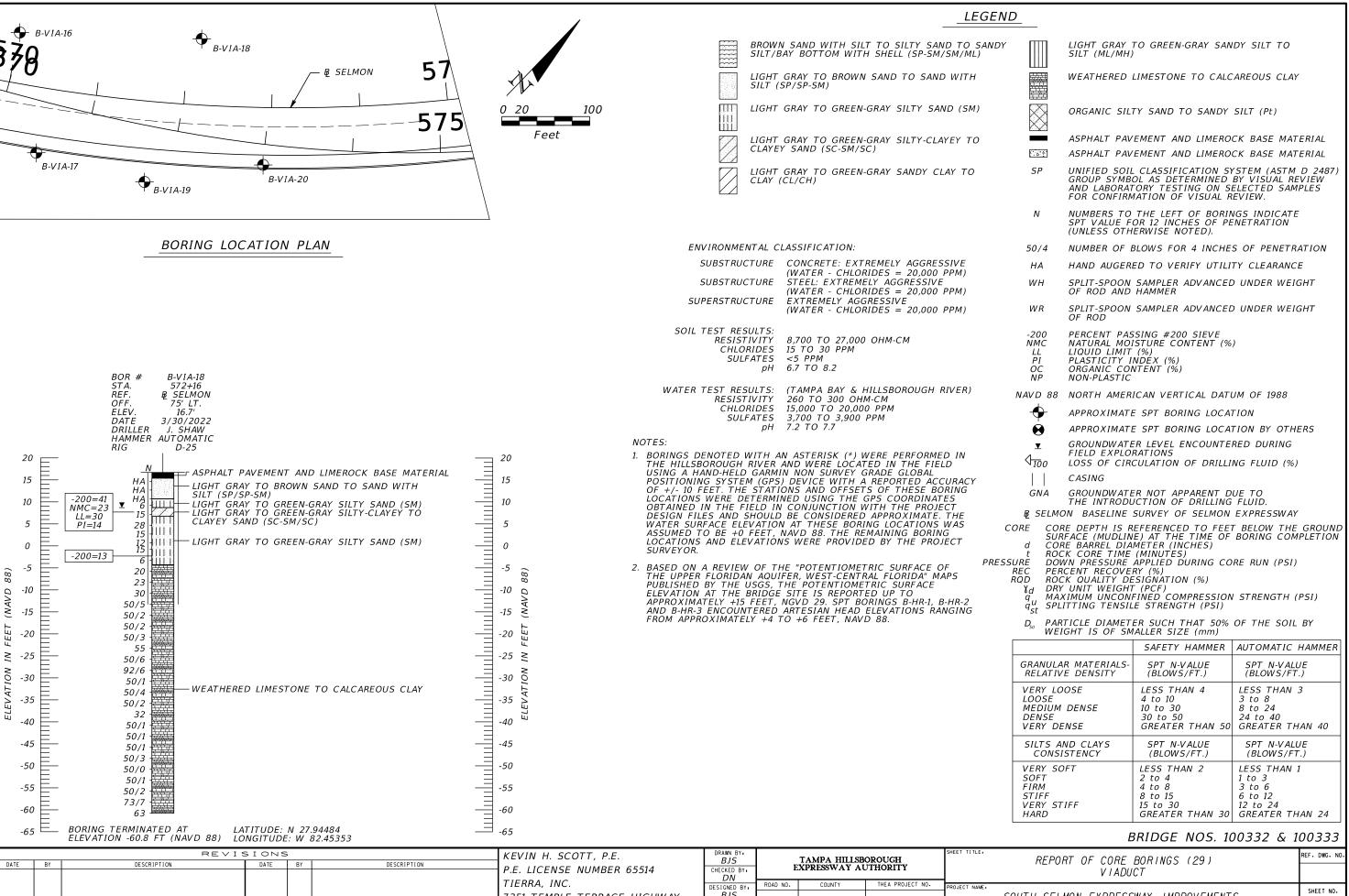
	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

BRIDGE NOS. 100332 & 100333

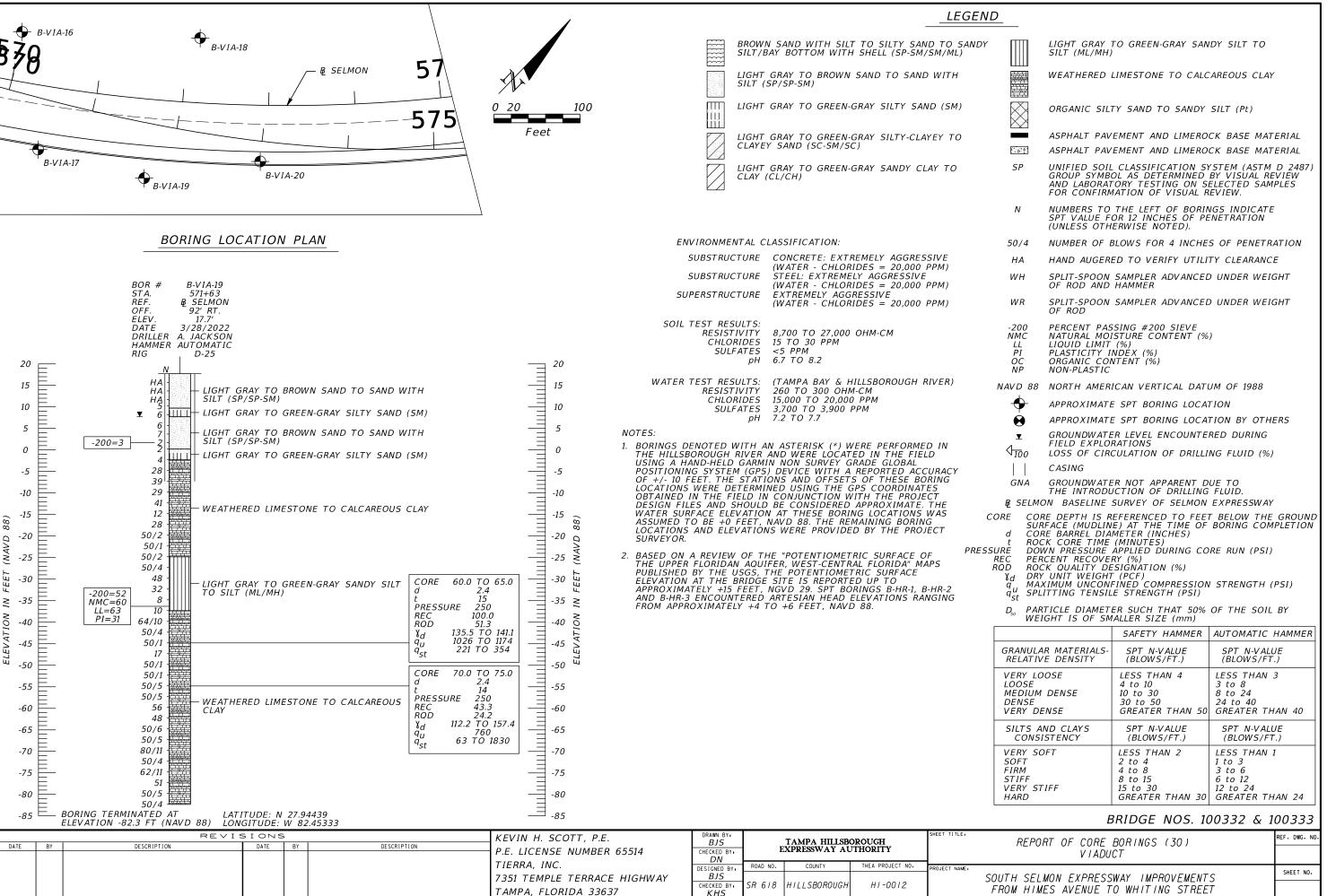
	REVI	SIONS		KEVIN H. SCOTT, P.E.	DRAWN BY:	TAMPA HILLSB	ODOLICH	SHEET TITLE:	REPORT OF CORE BORINGS (28)	REF. DWG. NO.
DATE	BY DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	BJS CHECKED BY: DN	EXPRESSWAY AU	JTHORITY		VIADUCT	
				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	BJS CHECKED BY: KHS	SR 618 HILLSBOROUGH	THEA PROJECT NO. H1-0012	PROJECT NAME:	SOUTH SELMON EXPRESSWAY IMPROVEMENTS FROM HIMES AVENUE TO WHITING STREET	SHEET NO.

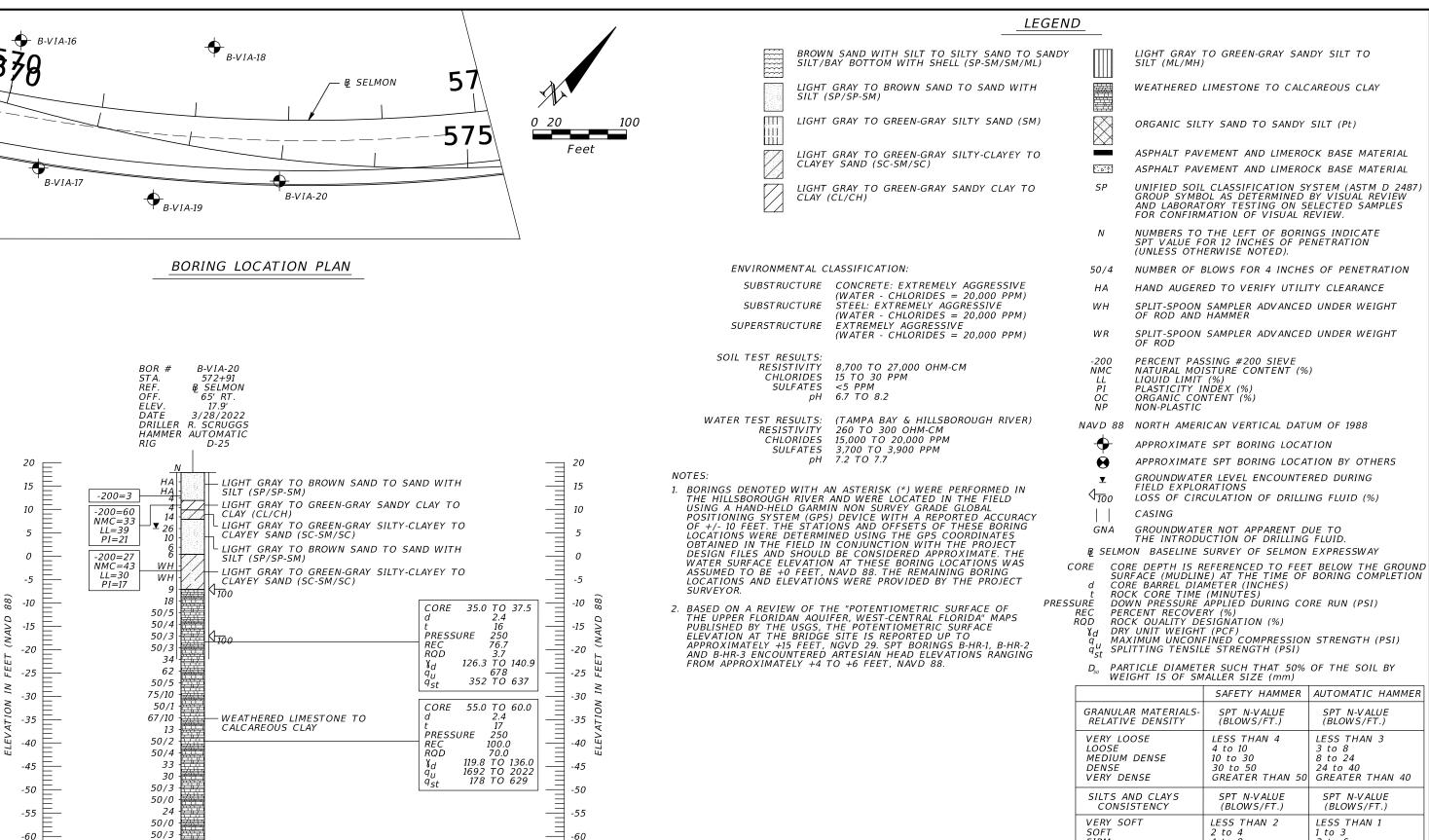
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J:\65||\202| Files\65||-2|-|69 THEA Master HNTB\TWO 7_South Selmon Drilling\Microstation\Geote



7351 TEMPLE TERRACE HIGHWAY BJS SOUTH SELMON EXPRESSWAY IMPROVEMENTS SR 618 HILLSBOROUGI HI-0012 FROM HIMES AVENUE TO WHITING STREET TAMPA, FLORIDA 33637 KHS





	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

DATE BY DESCRIPTION DATE BY DESCRIPTION		ROUGH REPORT OF CORE BORINGS (31)	DWG. NO.
P.E. LICE	. LICENSE NUMBER 65514 CHECKED BY. EXPRESSWAY AUT	THORITY	
I I I I I I I I I I I I I I I I I I I	ERRA, INC. DESIGNED BY. ROAD NO. COUNTY BJS	I SUILIA SELMUN EXPRESSWAY IMPRUVEMENTS L	HEET NO.
	MPA, FLORIDA 33637 CHECKED BY: SR 618 HILLSBOROUGH KHS	FROM HIMES AVENUE TO WHITING STREET	

-60

-65

-70

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-70

50/5 50/4

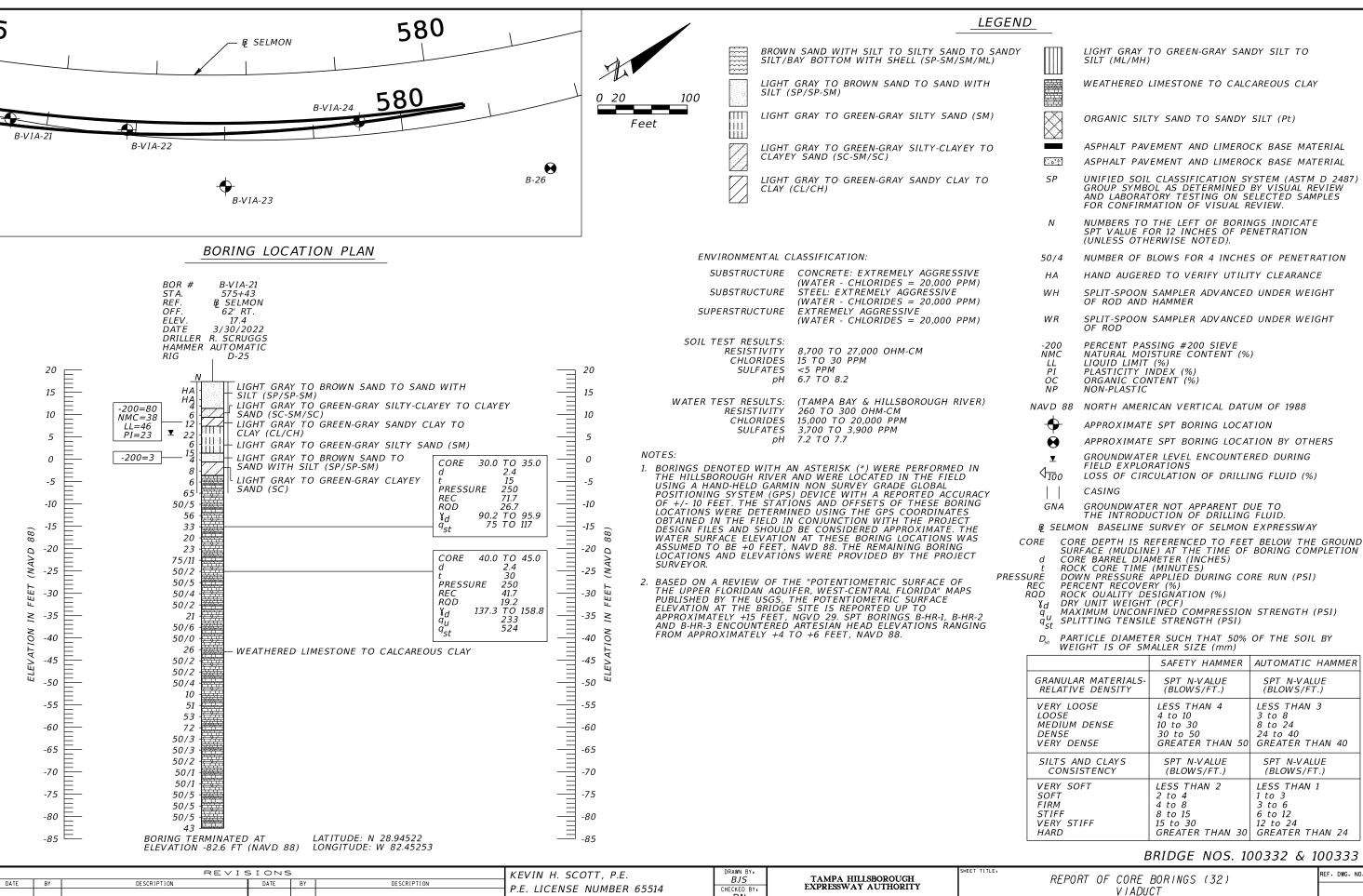
50/3

ELEVATION -67.1 FT (NAVD 88)

LATITUDE: N 27.94469

LONGITUDE: W 82 45307

BORING TERMINATED AT



DN

ESIGNED B

BJS

KHS

SR 618

THEA PROJECT NO.

COUNTY

TIERRA, INC.

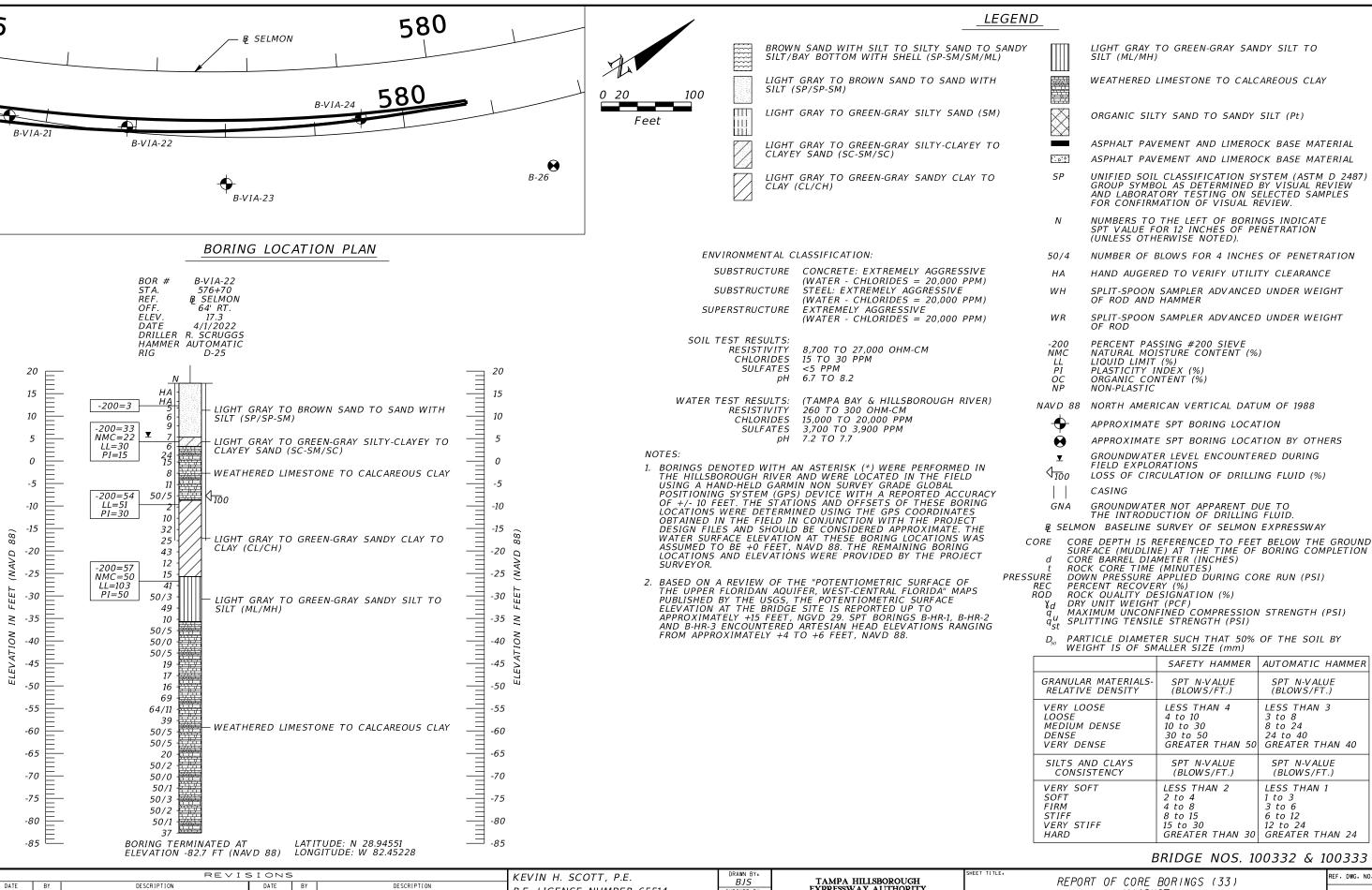
7351 TEMPLE TERRACE HIGHWAY

TAMPA, FLORIDA 33637

SHEET NO.

REF. DWG. NO

SOUTH SELMON EXPRESSWAY IMPROVEMENTS



BRIDGE NOS. 100332 & 100333 REF. DWG. NO

AUTOMATIC HAMMER

SPT N-VALUE (BLOWS/FT.)

LESS THAN 3

GREATER THAN 40

SPT N-VALUE

(BLOWS/FT.)

LESS THAN 1

3 to 8

8 to 24

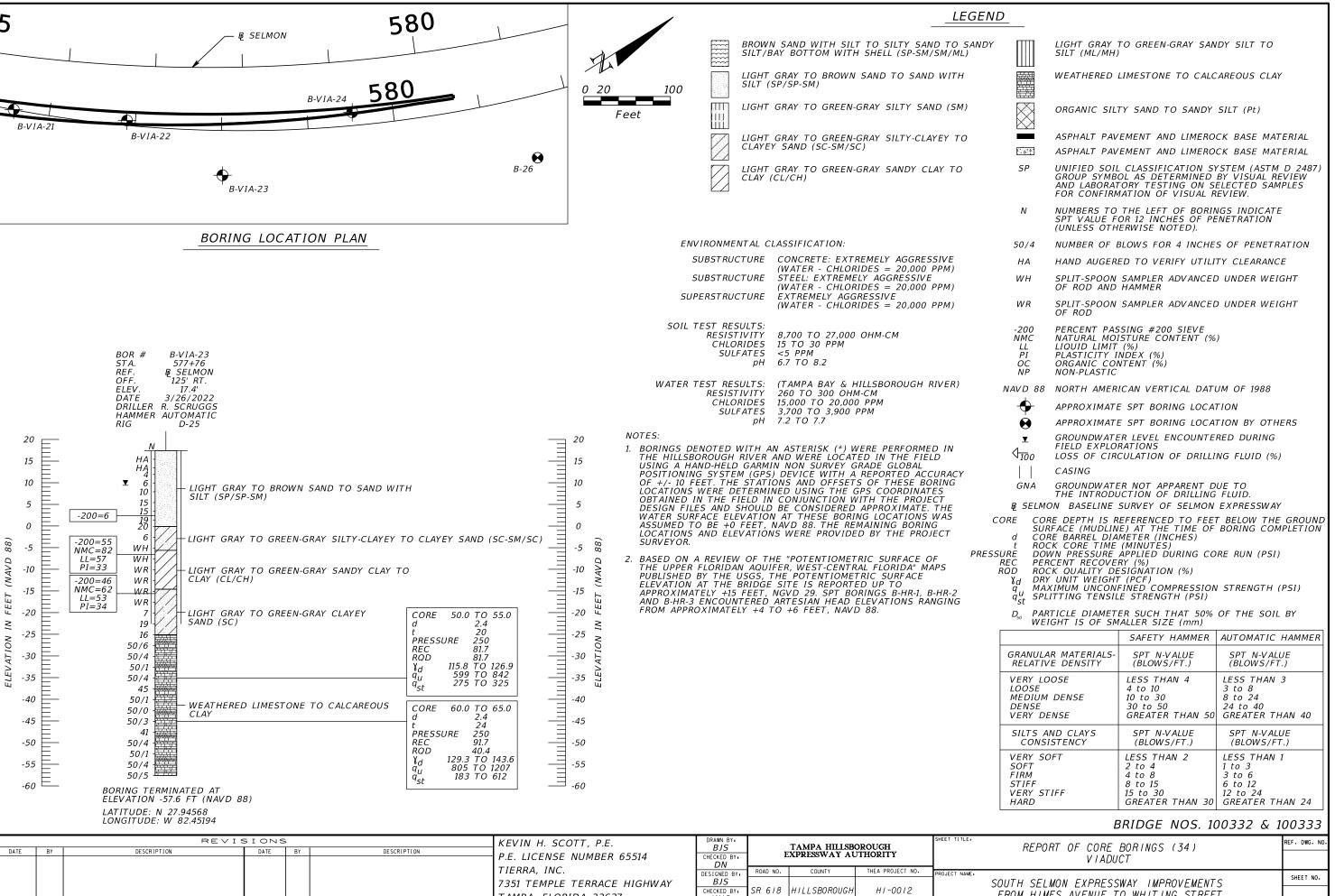
24 to 40

1 to 3

3 to 6

6 to 12

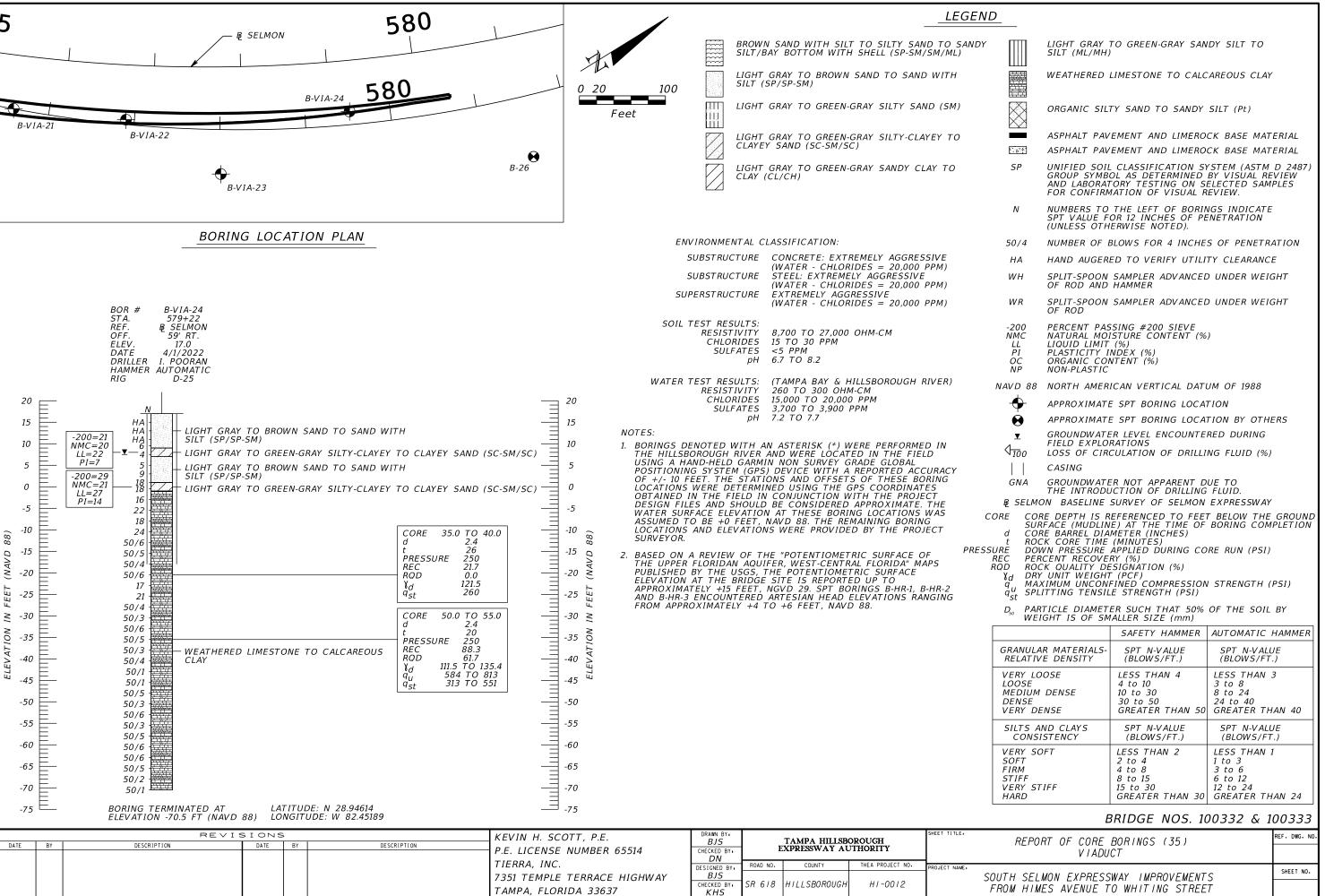
12 to 24



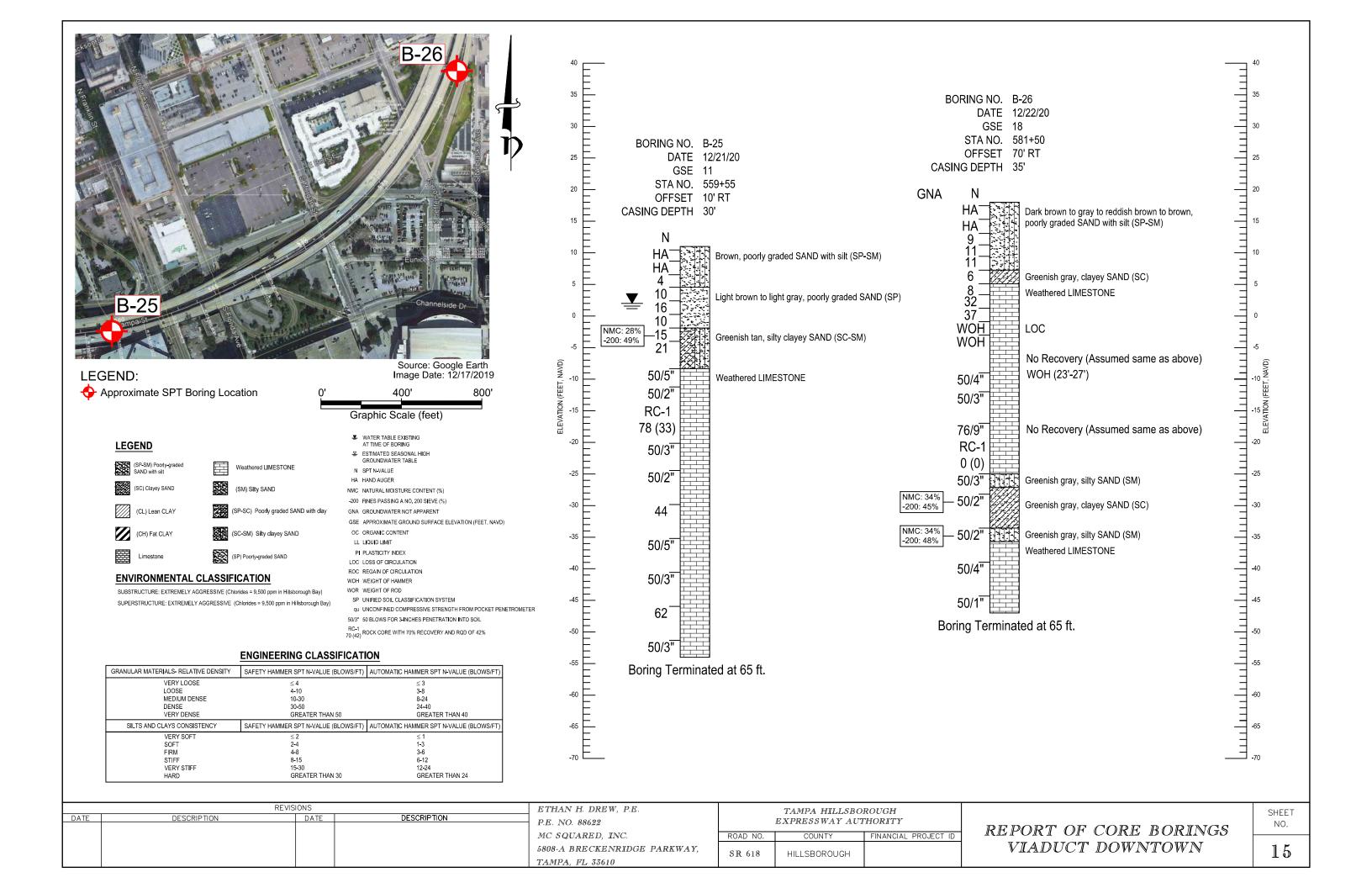
KHS

TAMPA, FLORIDA 33637

FROM HIMES AVENUE TO WHITING STREET

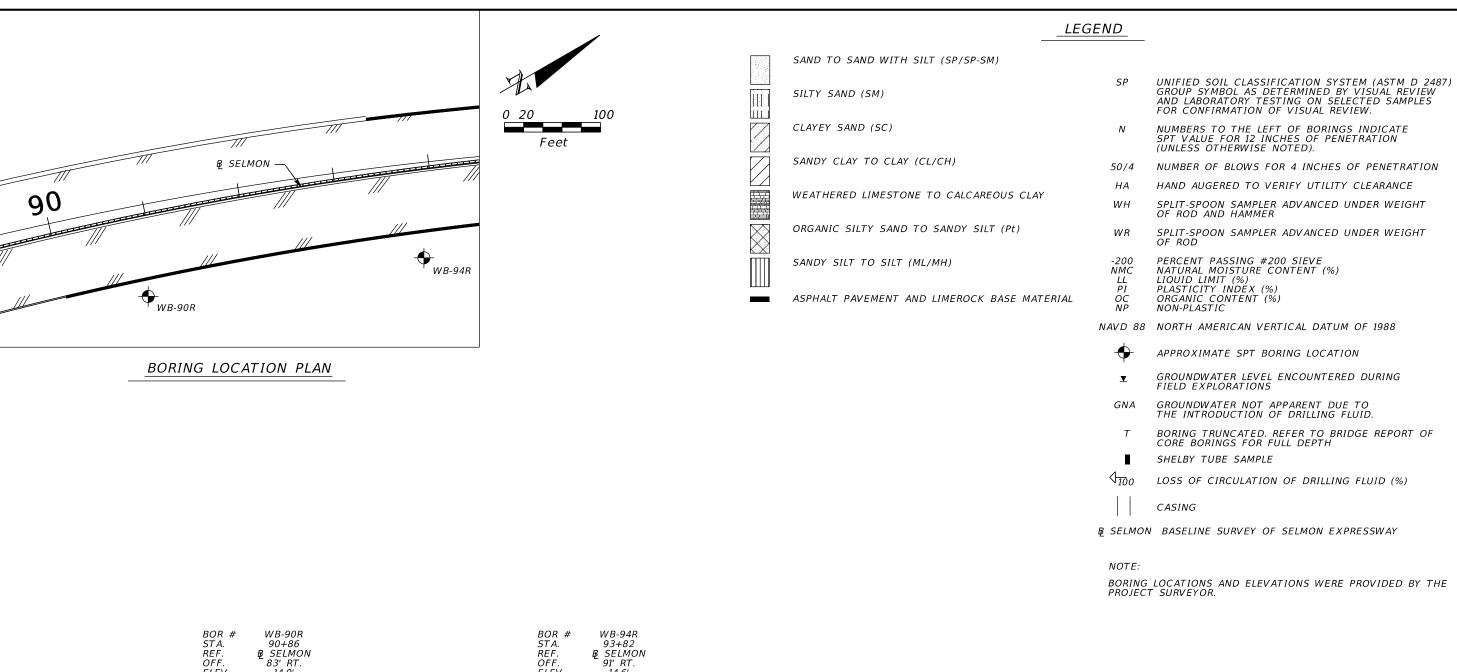


FROM HIMES AVENUE TO WHITING STREET



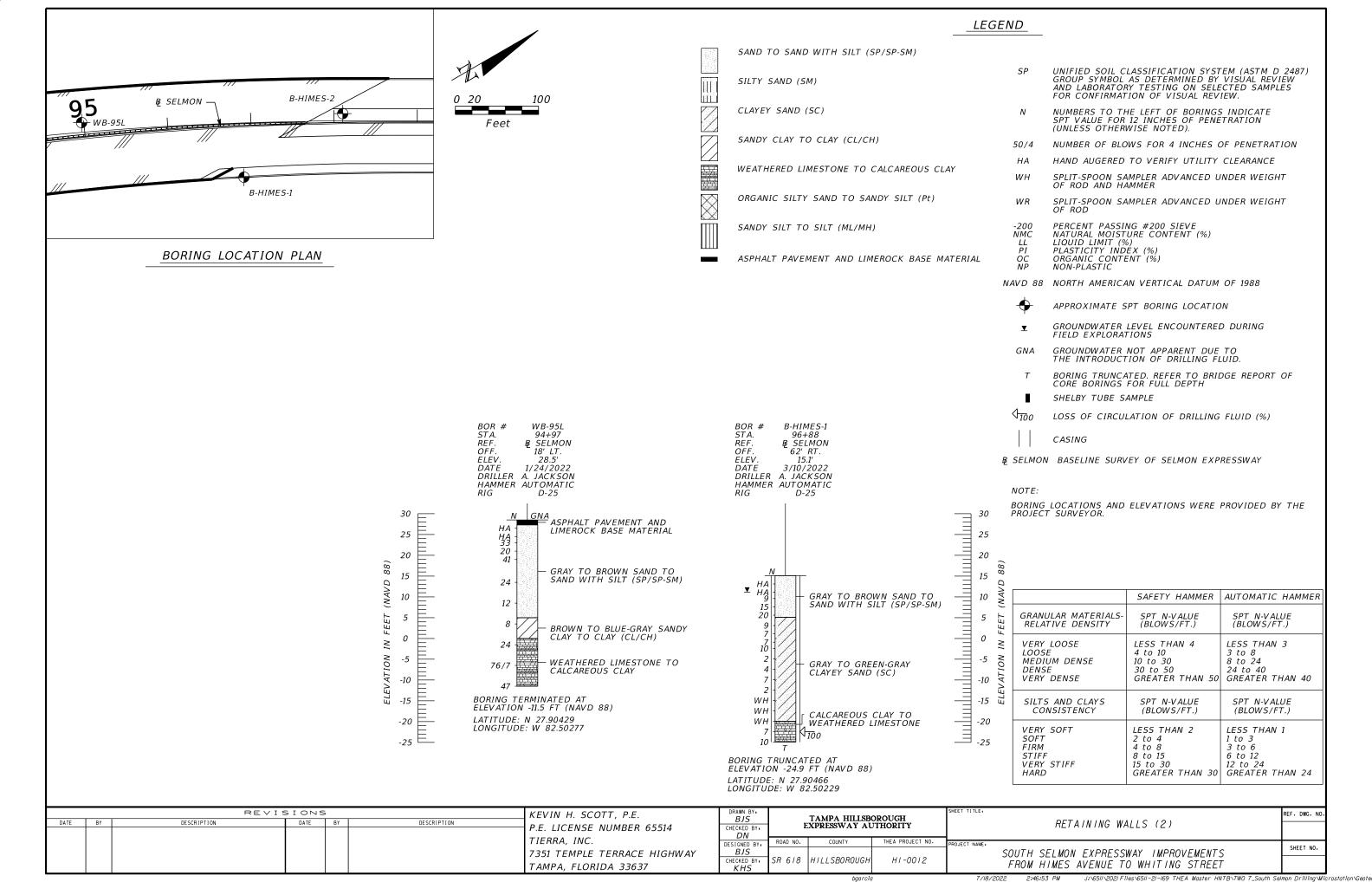
APPENDIX N

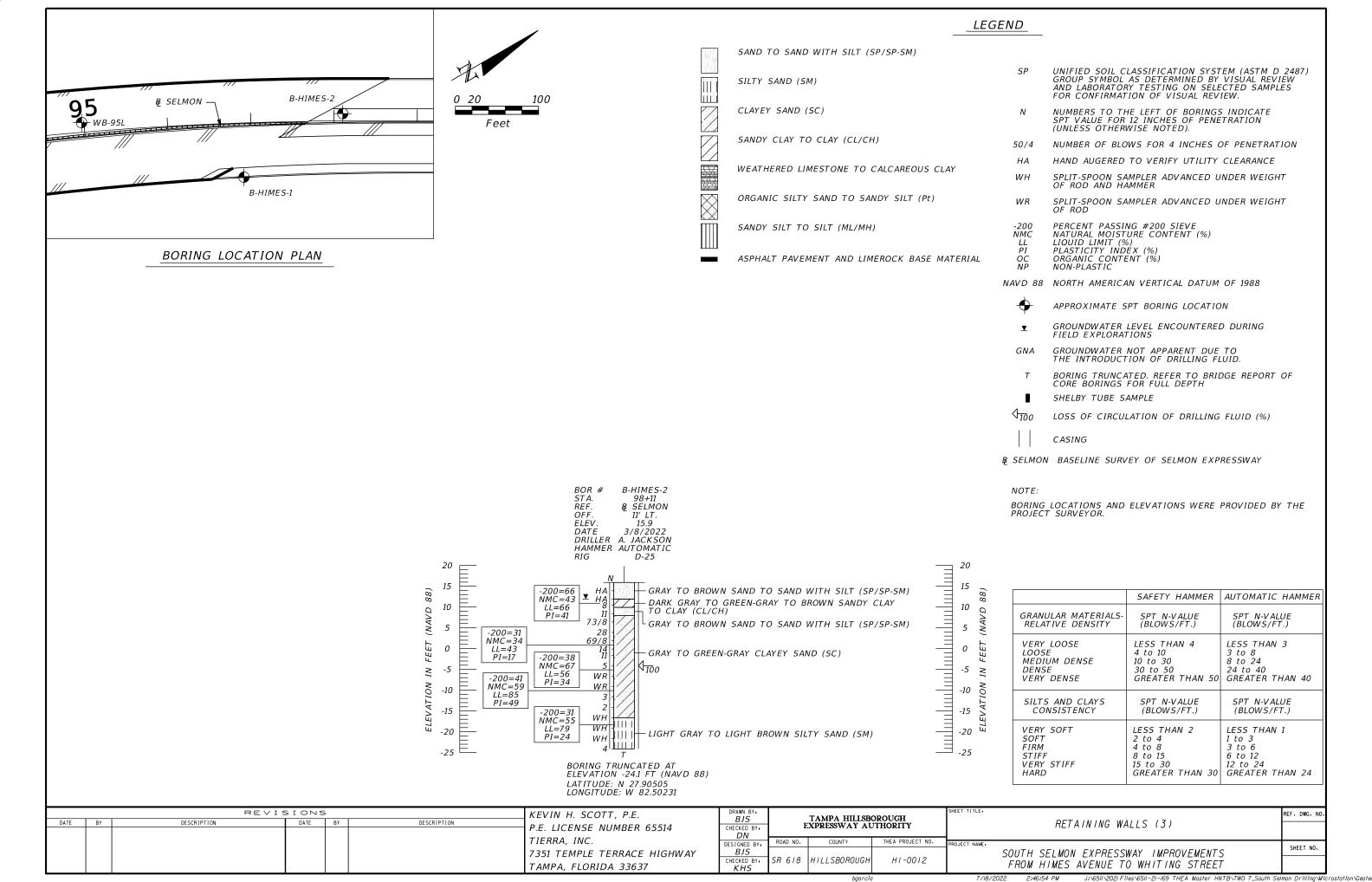
Report of Core Borings Sheets – Retaining Walls

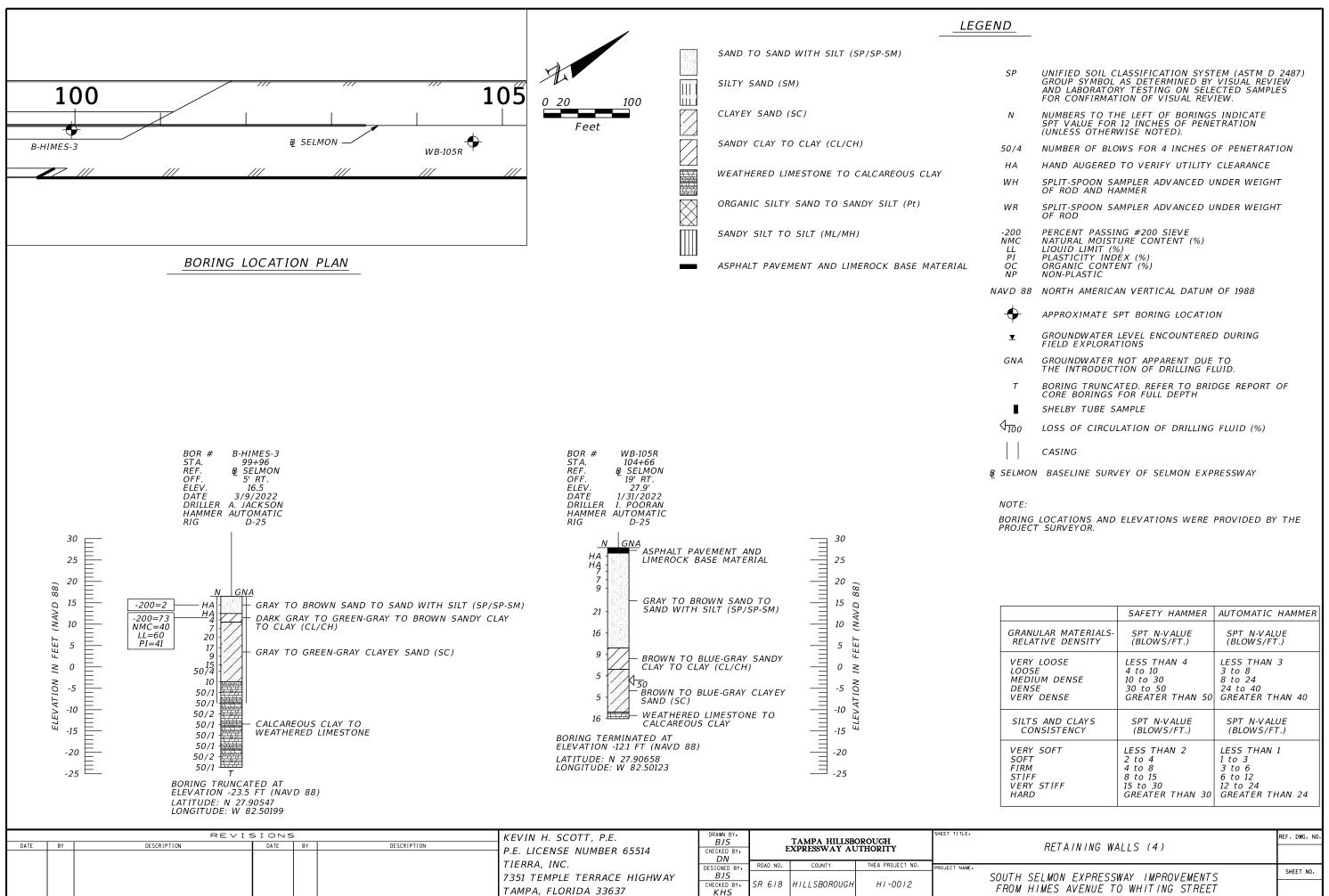


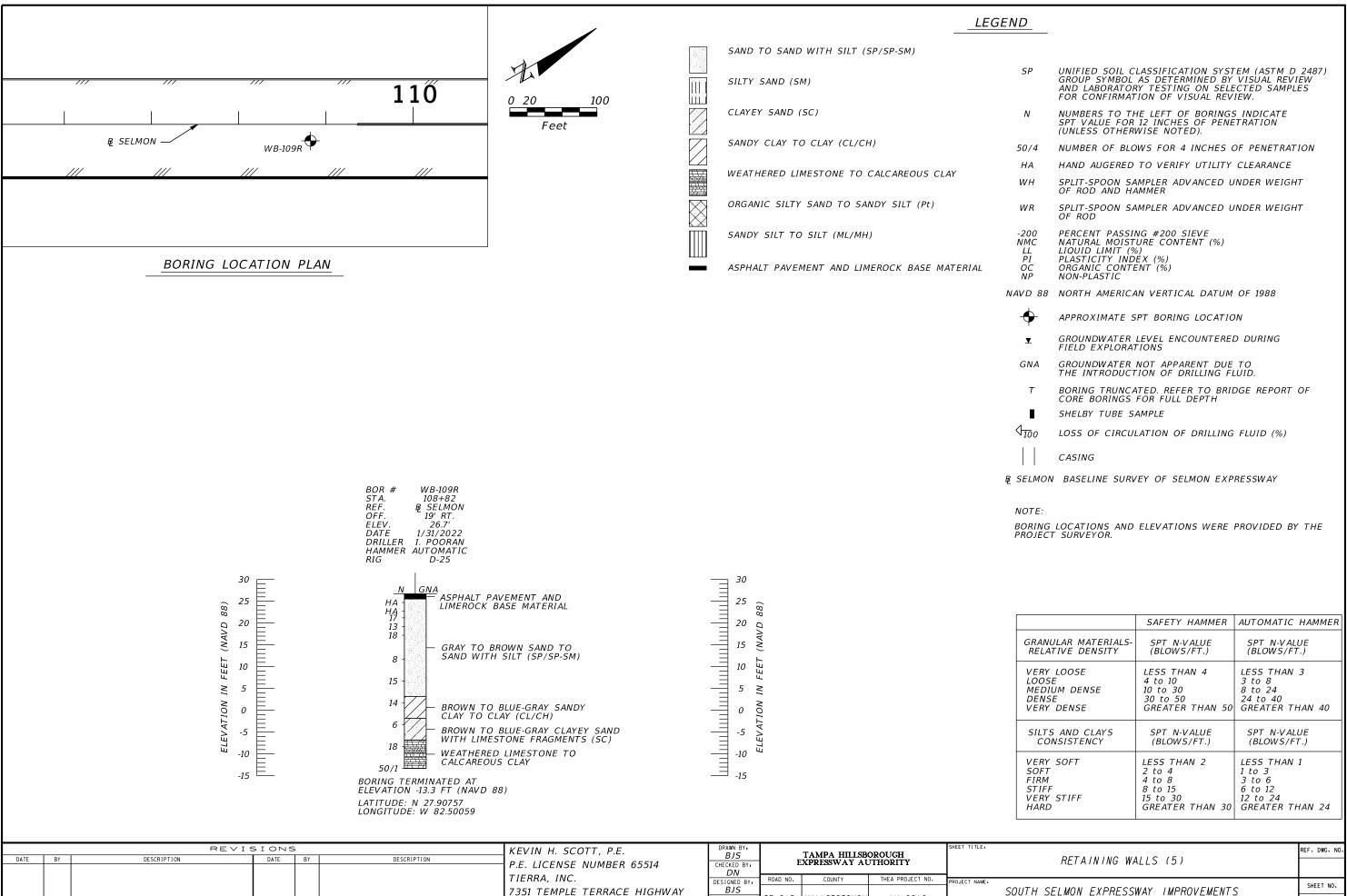
	ELEV. 14.0' DATE 3/10/2022 DRILLER K. CAUDILL HAMMER AUTOMATIC	ELEV. 14.6' DATE 3/10/2022 DRILLER K. CAUDILL HAMMER AUTOMATIC				AUTOMATIC HAMMER
	RIG D-25	RIG D-25	ŝ	GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
15	N HA HA GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)	N HA HA GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM) 7 12 BROWN TO BLUE-GRAY SANDY CLAY TO CLAY (CL/CH) WEATHERED LIMESTONE TO CALCAREOUS CLAY	15 8	VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE		LESS THAN 3 3 to 8 8 to 24 24 to 40 GREATER THAN 40
	BROWN TO BLUE-GRAY SANDY CLAY TO CLAY (CL/CH) 66 WEATHERED LIMESTONE TO CALCAREOUS CLAY		0 N F.E.		SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
	BORING TERMINATED AT ELEVATION -6.0 FT (NAVD 88) LATITUDE: N 27.90314 LONGITUDE: W 82.50293	BORING TERMINATED AT ELEVATION -5.4 FT (NAVD 88) LATITUDE: N 27.90388 LONGITUDE: W 82.50259	ELEVAT	SOFT FIRM STIFF VERY STIFF HARD	2 to 4 4 to 8 8 to 15 15 to 30 GREATER THAN 30	1 to 3 3 to 6 6 to 12 12 to 24 GREATER THAN 24

		REVIS	SIONS	5	KEVIN H. SCOTT, P.E.	DRAWN BY:		TAMPA HILLSB	DOLICH	SHEET TITLE:		REF. DWG. NO	١0٠
DATE	BY	DESCRIPTION	DATE	BY DESCRIPTION	P.E. LICENSE NUMBER 65514	BJS CHECKED BY:	EXPRESSWAY AUTHORITY		RETAINING WALLS (1)			1	
					TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY	DESIGNED BY: BJS	ROAD NO.	COUNTY	THEA PROJECT NO.	PROJECT NAME:	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.	1
					TAMPA, FLORIDA 33637	CHECKED BY:	SR 618	HILLSBOROUGH	HI-0012		FROM HIMES AVENUE TO WHITING STREET		









TAMPA, FLORIDA 33637

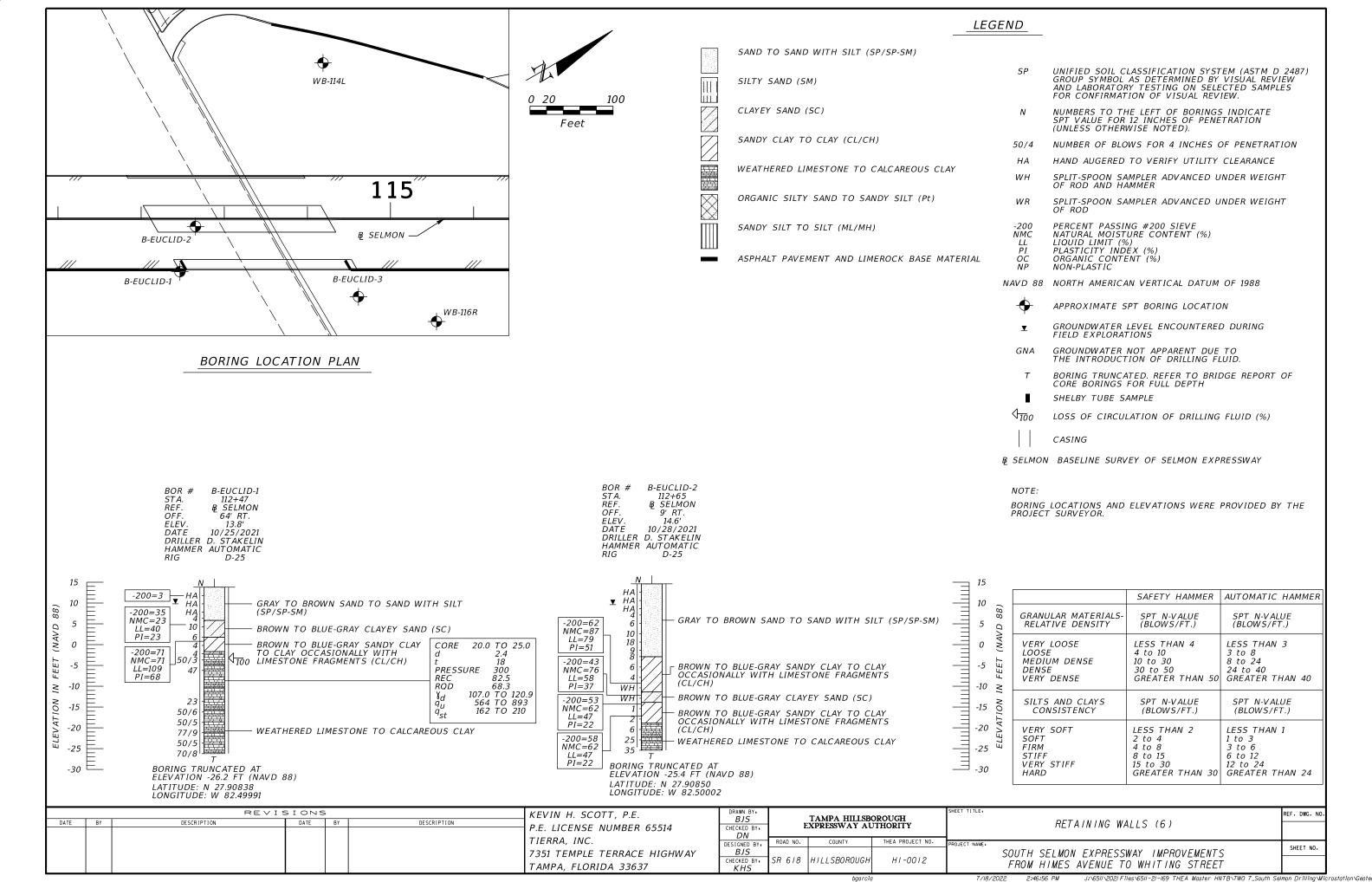
HILLSBOROUGH

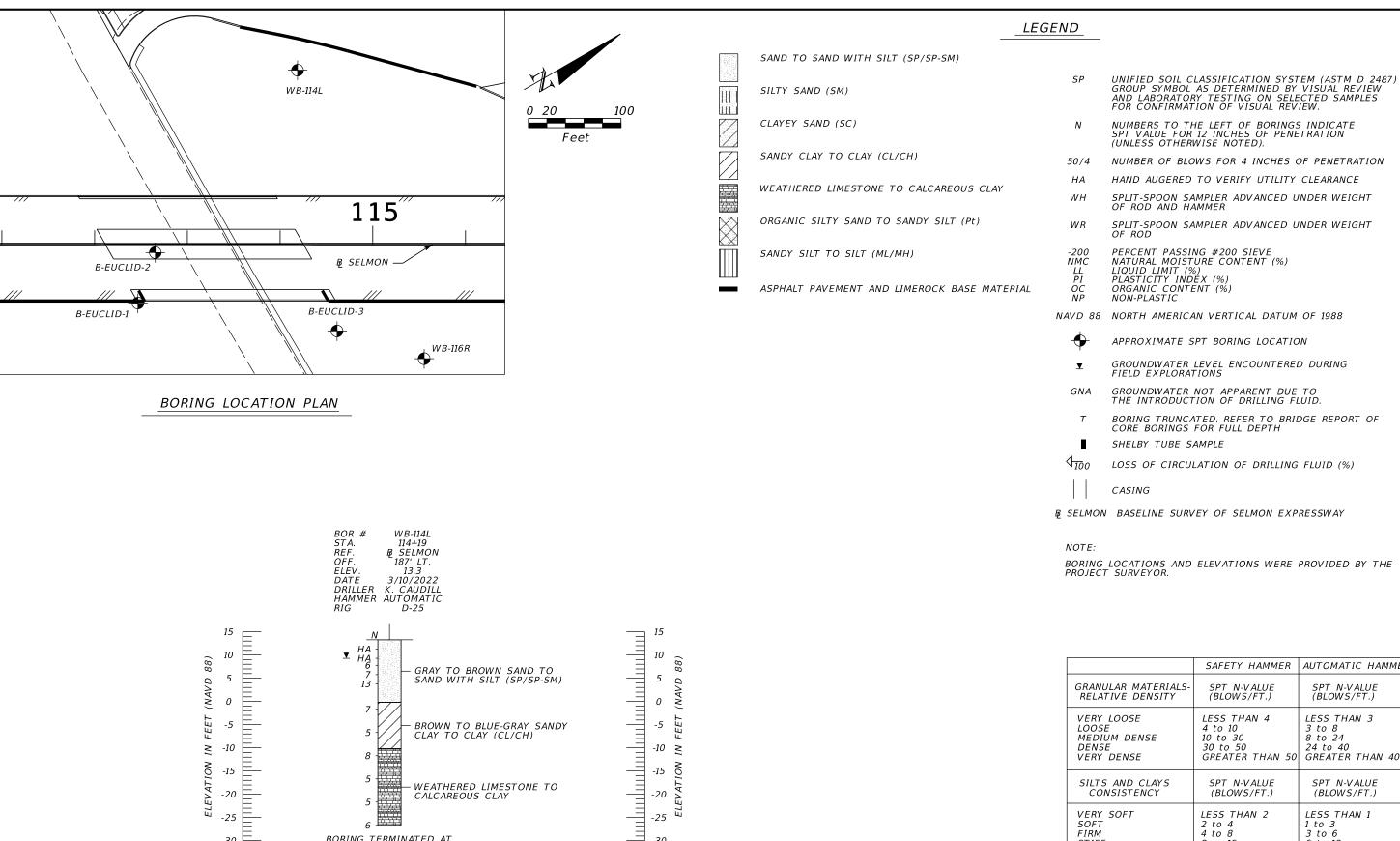
SR 618

KHS

FROM HIMES AVENUE TO WHITING STREET

HI-0012





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-15

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-30

KEVIN H. SCOTT, P.E.

TAMPA, FLORIDA 33637

TIERRA, INC.

P.E. LICENSE NUMBER 65514

BROWN TO BLUE-GRAY SANDY CLAY TO CLAY (CL/CH)

WEATHERED LIMESTONE TO

CALCAREOUS CLAY

5

BORING TERMINATED AT

LATITUDE: N 27.90917 LONGITUDE: W 82.50035

ELEVATION -26.7 FT (NAVD 88)

DESCRIPTION

0 -5

-20

-25

-30

REVISIONS

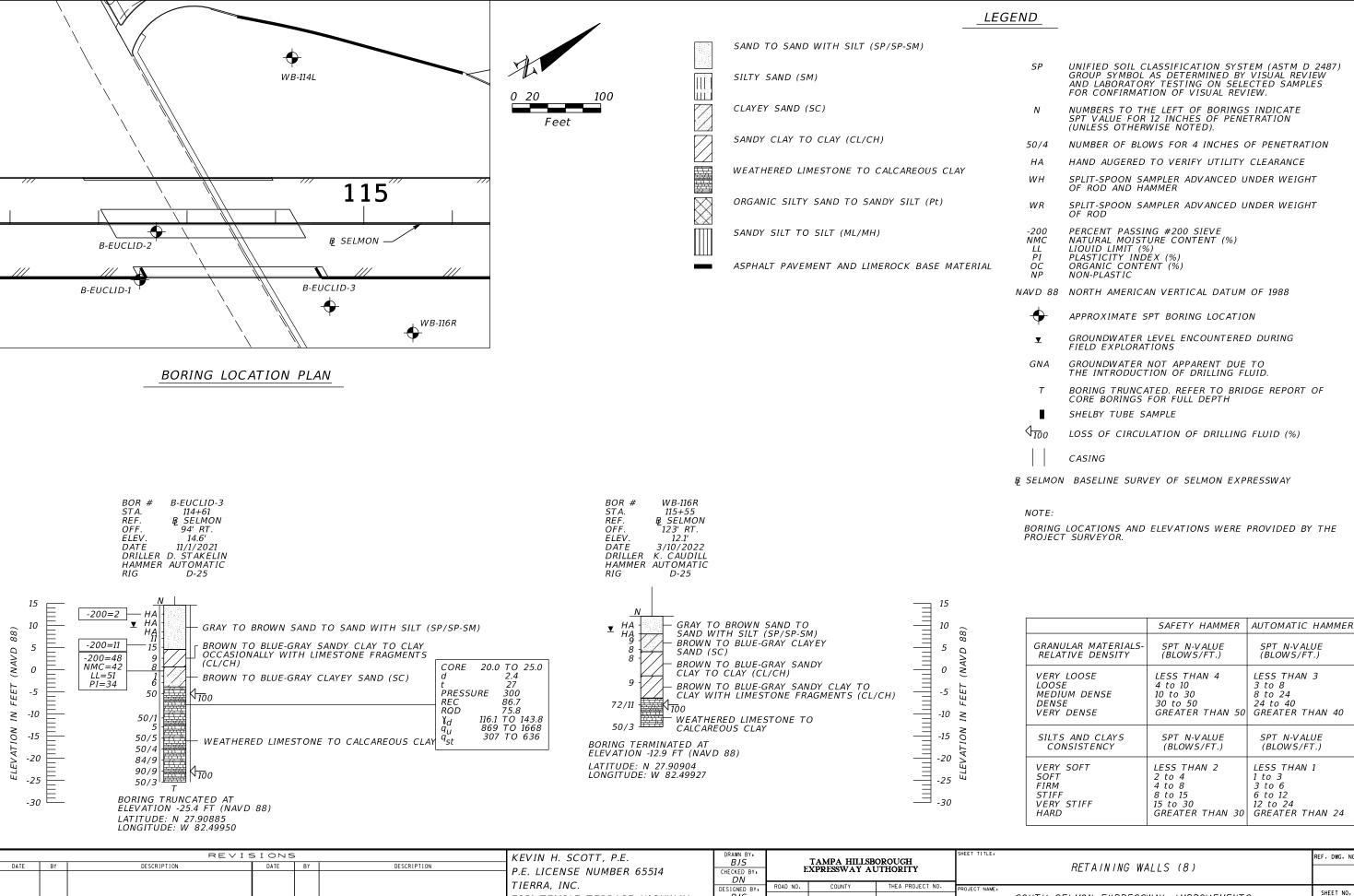
DATE

 \geq -10 -15

DESCRIPTION

DATE BY

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24



7351 TEMPLE TERRACE HIGHWAY

TAMPA, FLORIDA 33637

BJS

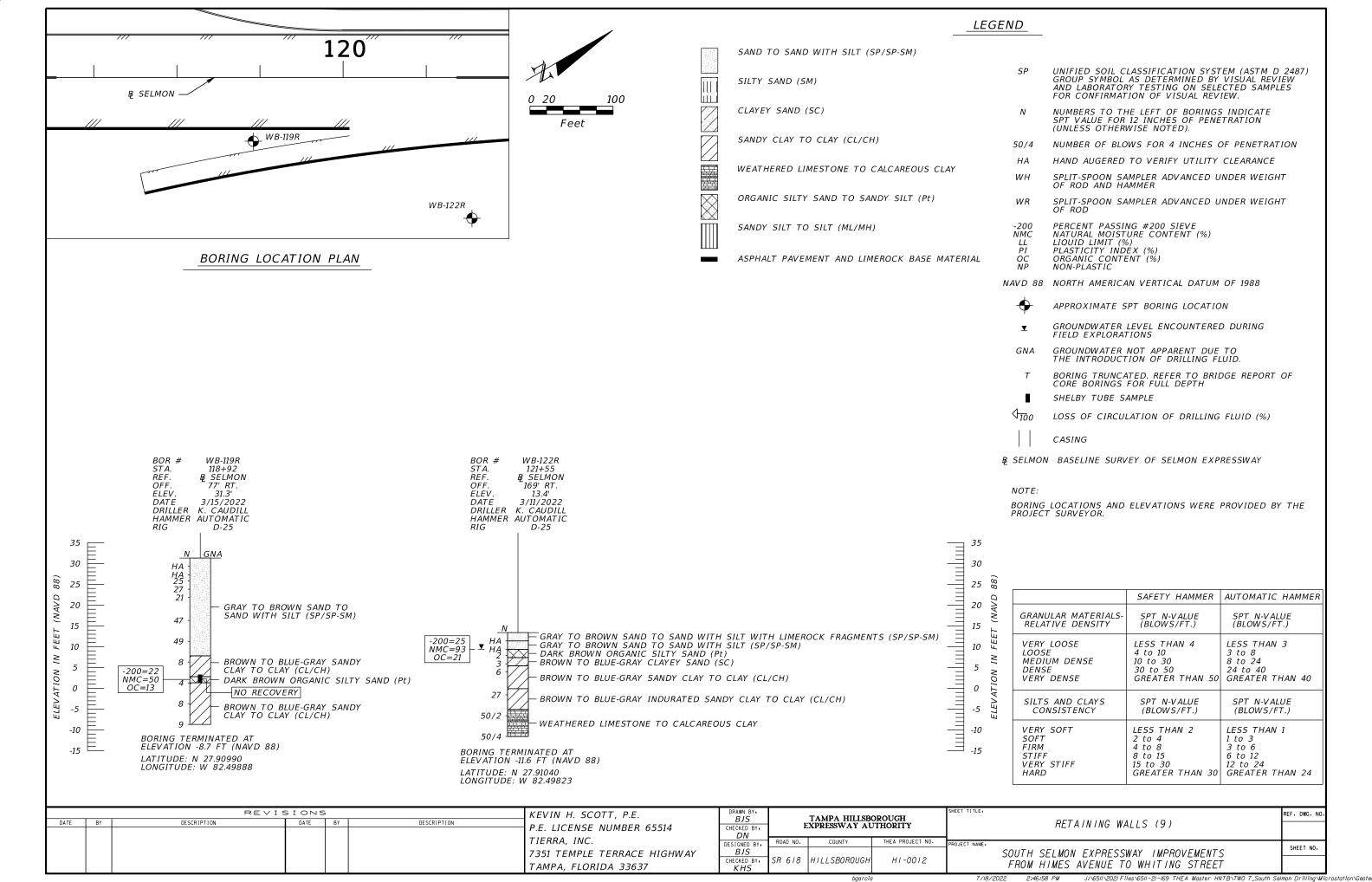
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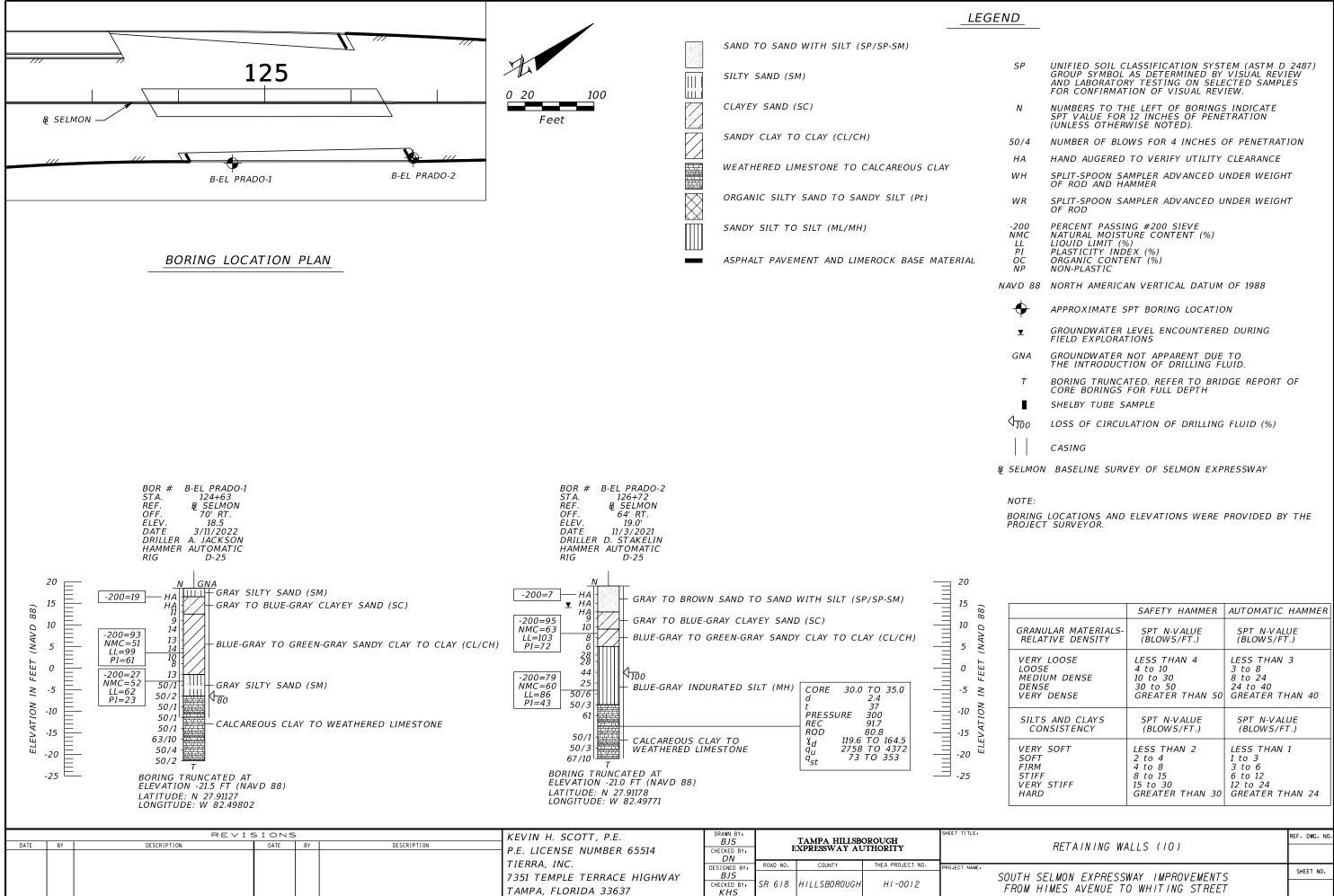
SR 618

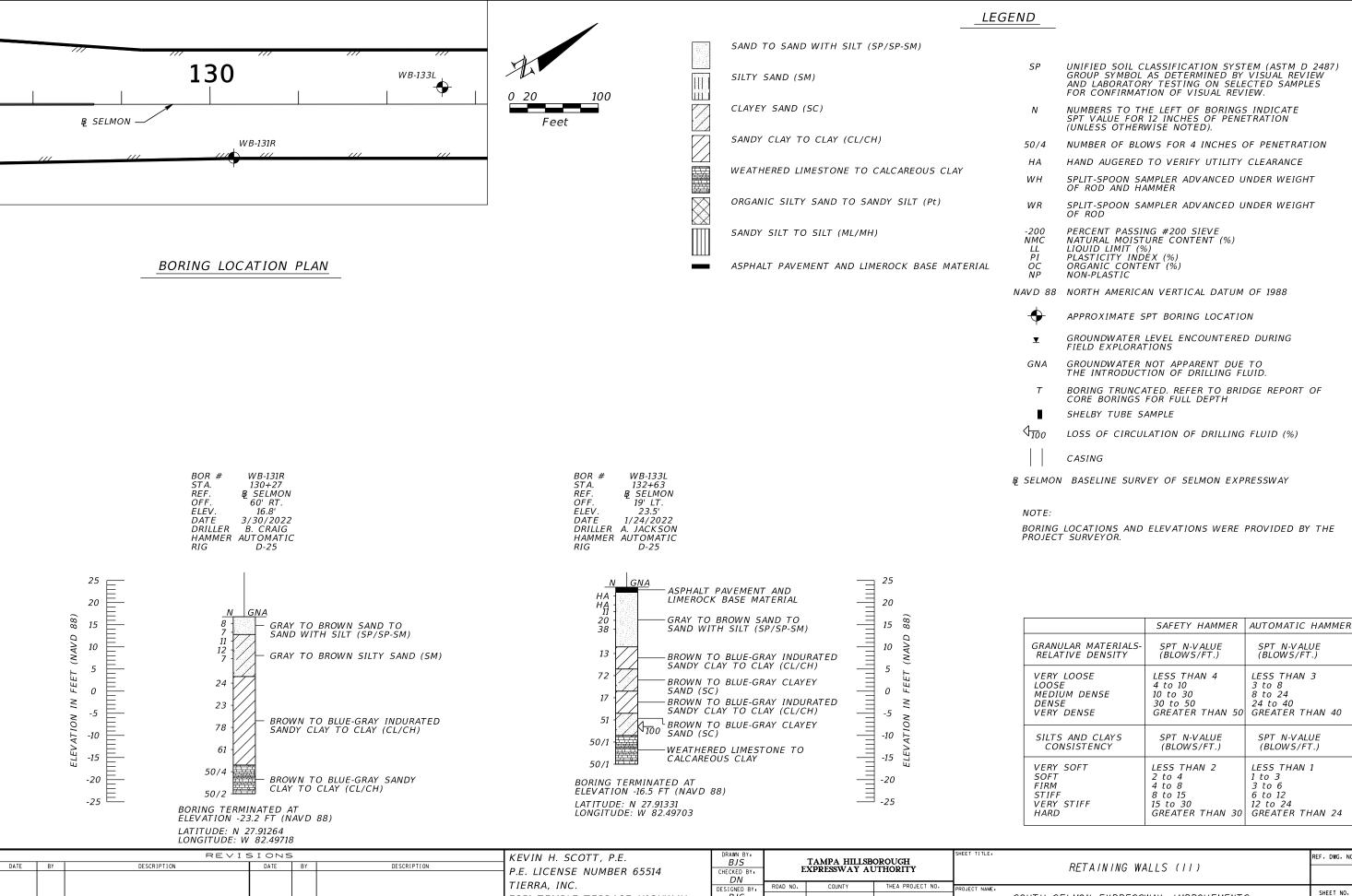
HILLSBOROUGI

HI-0012

SOUTH SELMON EXPRESSWAY IMPROVEMENTS FROM HIMES AVENUE TO WHITING STREET







7351 TEMPLE TERRACE HIGHWAY

TAMPA, FLORIDA 33637

SOUTH SELMON EXPRESSWAY IMPROVEMENTS

FROM HIMES AVENUE TO WHITING STREET

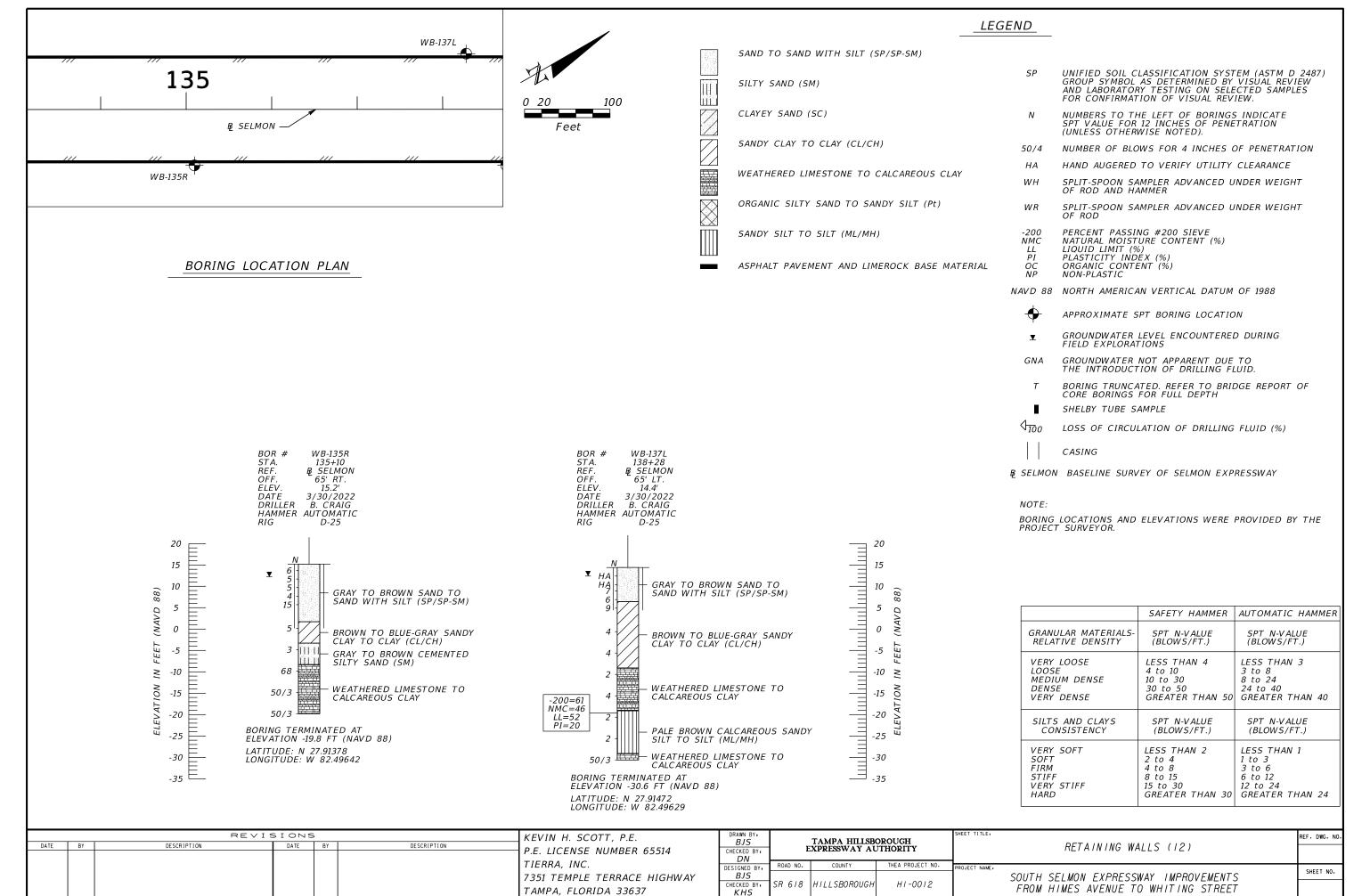
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BJS

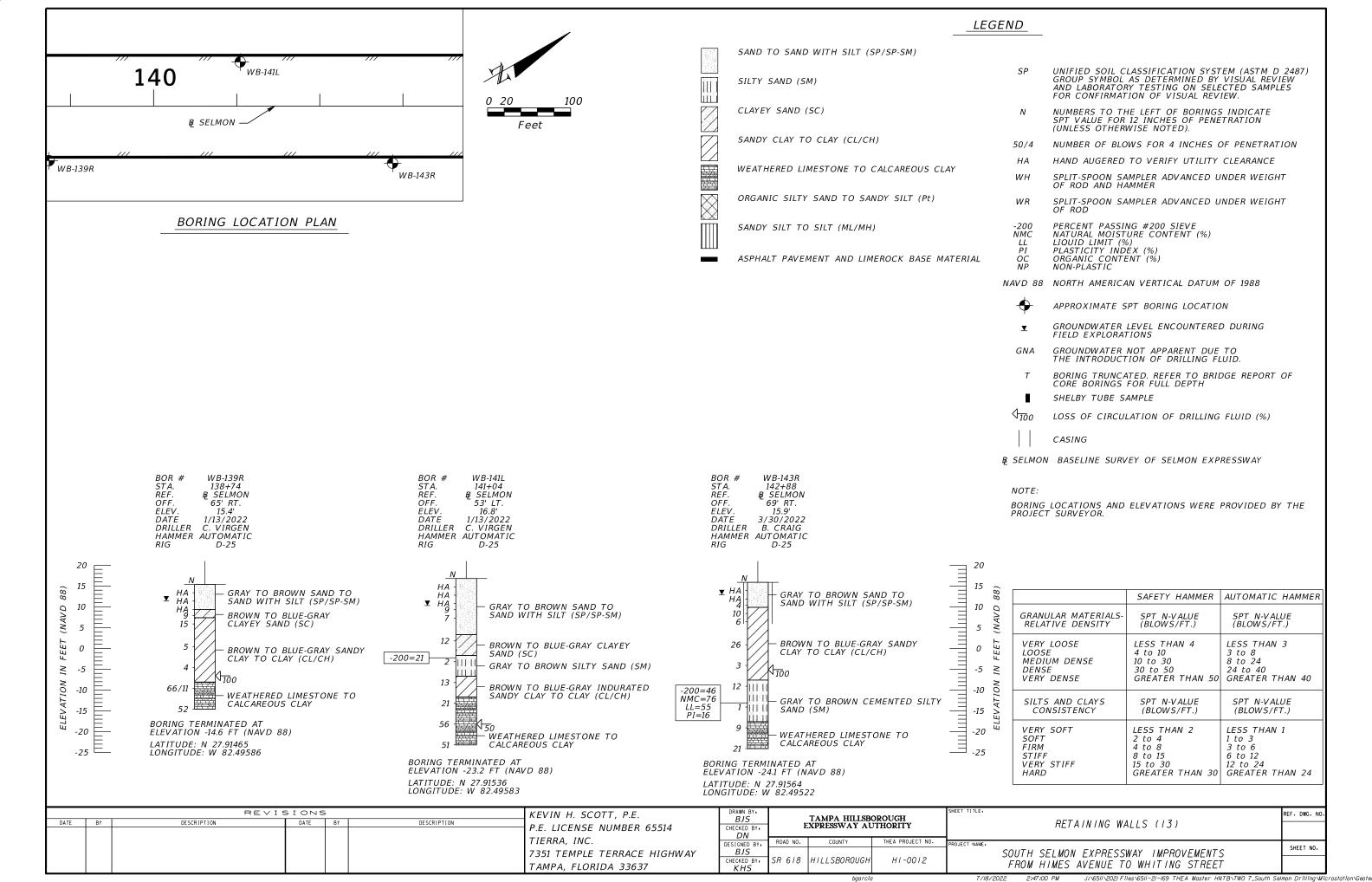
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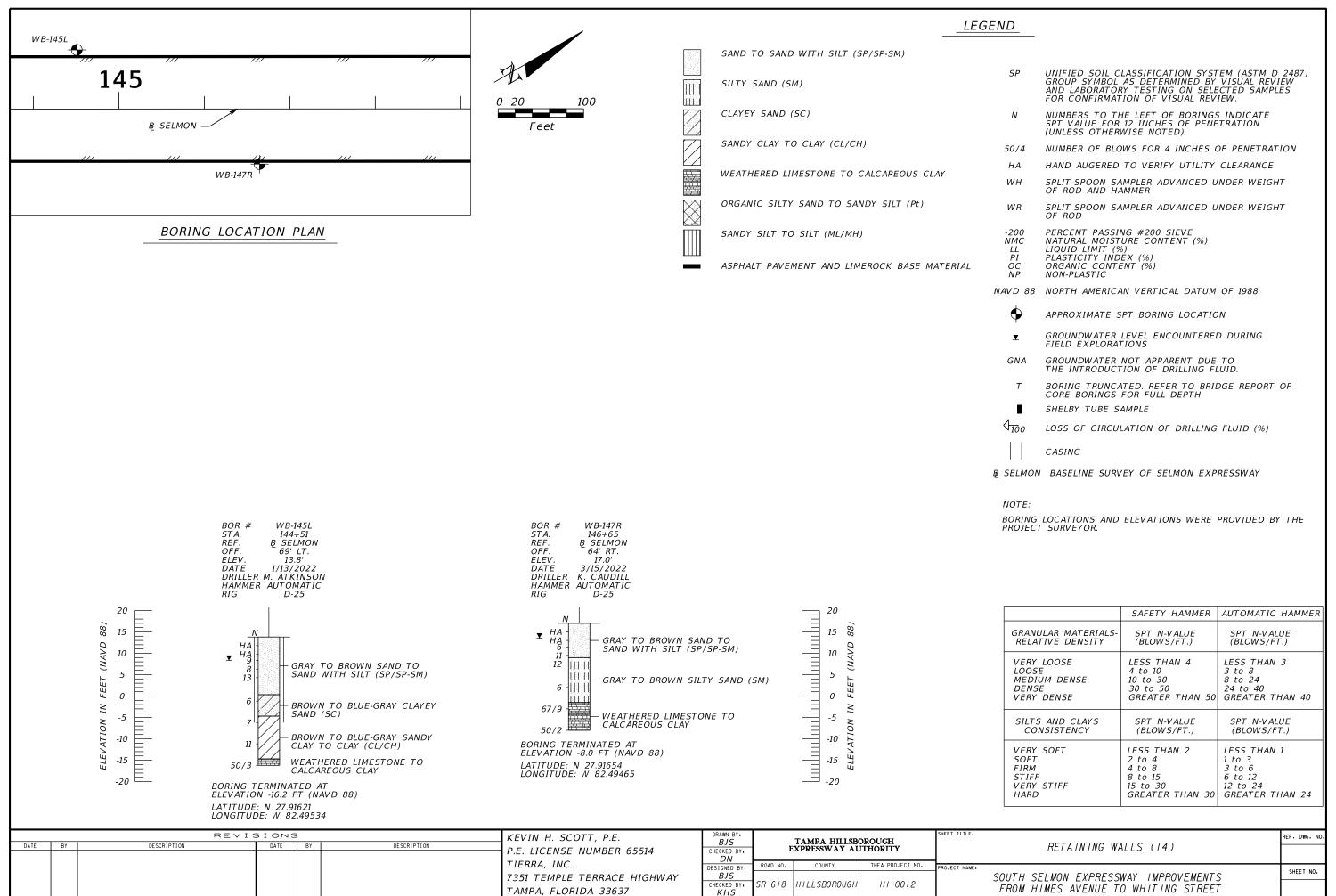
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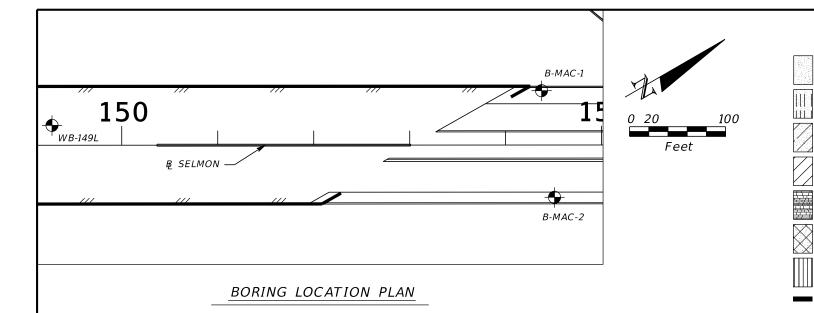
HI-0012

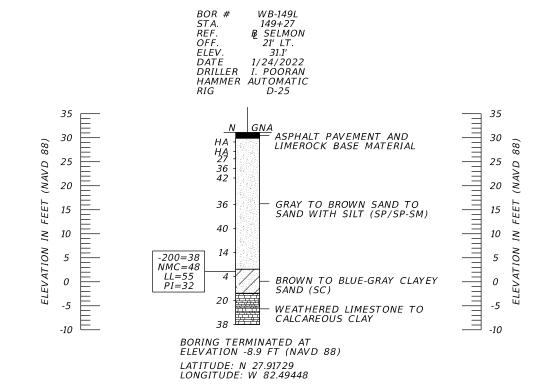


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LEGEND

SAND TO SAND WITH SILT (SP/SP-SM)

SILTY SAND (SM)

CLAYEY SAND (SC)

SANDY CLAY TO CLAY (CL/CH)

WEATHERED LIMESTONE TO CALCAREOUS CLAY

ORGANIC SILTY SAND TO SANDY SILT (Pt)

SANDY SILT TO SILT (ML/MH)

ASPHALT PAVEMENT AND LIMEROCK BASE MATERIAL

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) SP GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW
AND LABORATORY TESTING ON SELECTED SAMPLES
FOR CONFIRMATION OF VISUAL REVIEW.

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

HAHAND AUGERED TO VERIFY UTILITY CLEARANCE SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER WH

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT WR

OF ROD

PERCENT PASSING #200 SIEVE NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) -200 NMC LL PI PLASTICITY INDEX (%)

ORGANIC CONTENT (%) NON-PLASTIC

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION

GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

GNAGROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID.

BORING TRUNCATED. REFER TO BRIDGE REPORT OF CORE BORINGS FOR FULL DEPTH

SHELBY TUBE SAMPLE

LOSS OF CIRCULATION OF DRILLING FLUID (%)

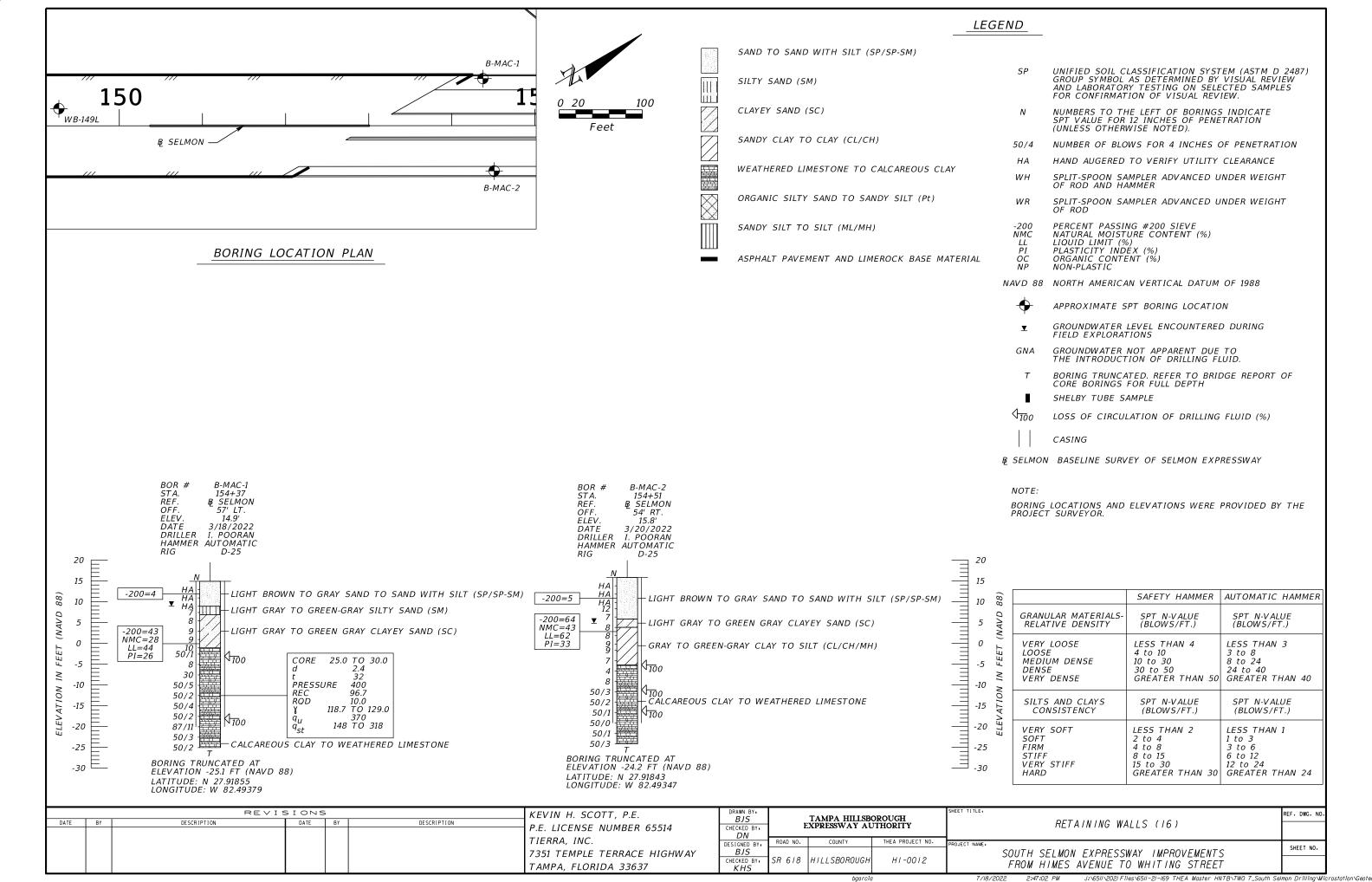
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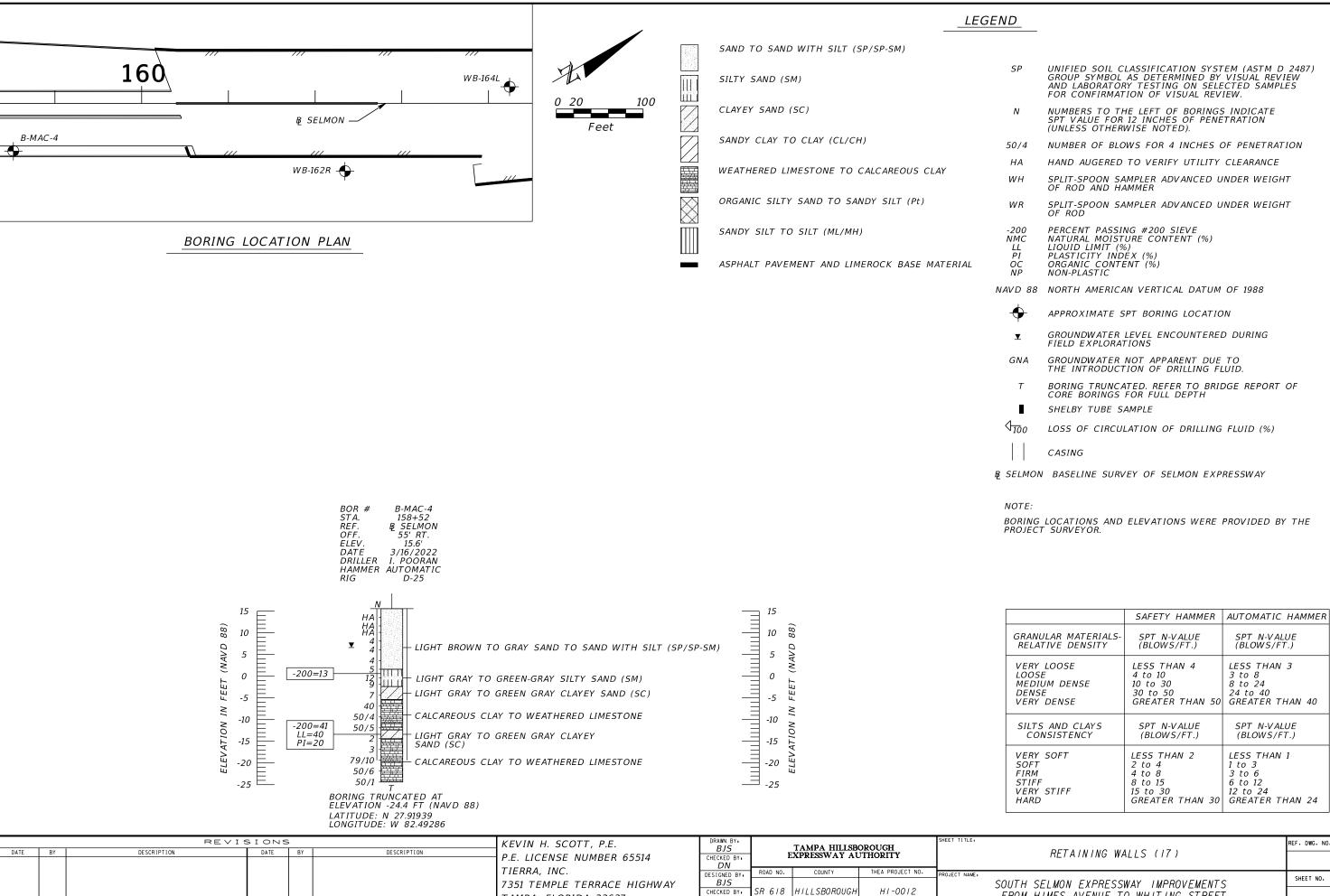
B SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

			KEVIN H. SCOTT, P.E.	DRAWN BY:	TAMPA HILLSBOROUGH	SHEET TITLE:		REF. DWG. NO.	
DATE BY	DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	BJS CHECKED BY: DN	EXPRESSWAY AUTHORITY		RETAINING WALLS (15)	
				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY	DESIGNED BY:	ROAD NO. COUNTY THEA PROJECT NO.	PROJECT NAME:	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.
				TAMPA, FLORIDA 33637	CHECKED BY:	SR 618 HILLSBOROUGH HI-0012		FROM HIMES AVENUE TO WHITING STREET	

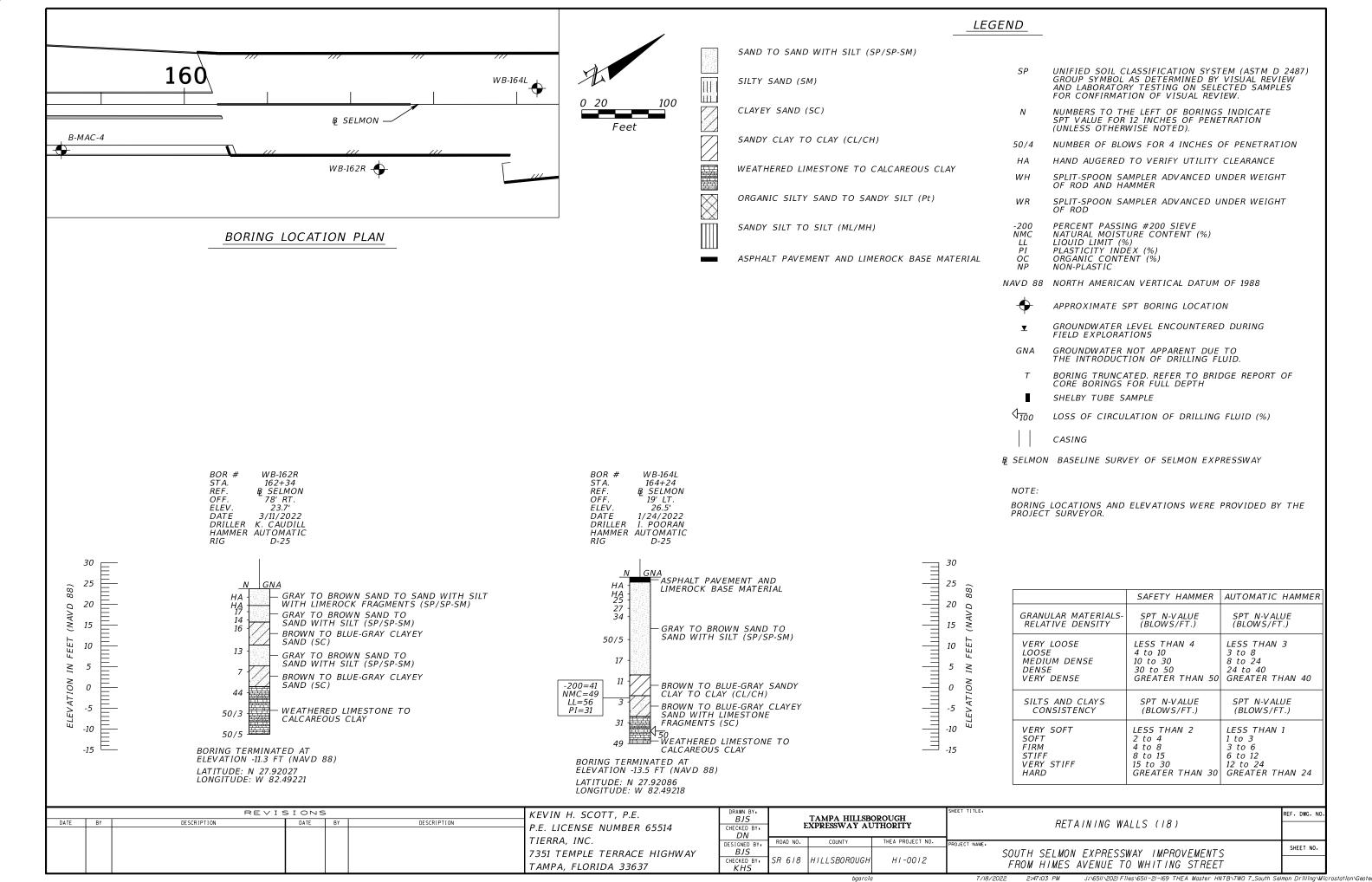


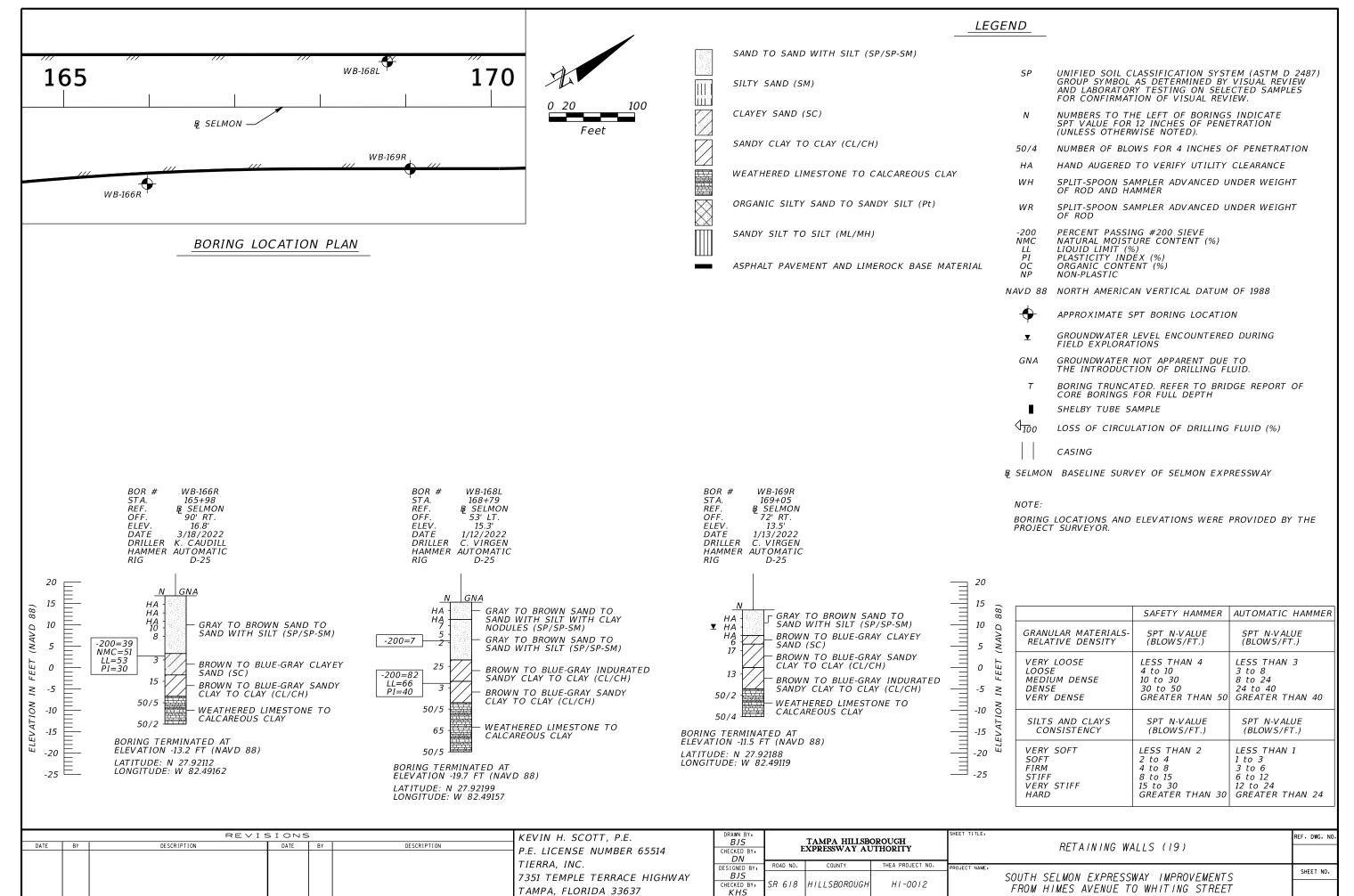


TAMPA, FLORIDA 33637

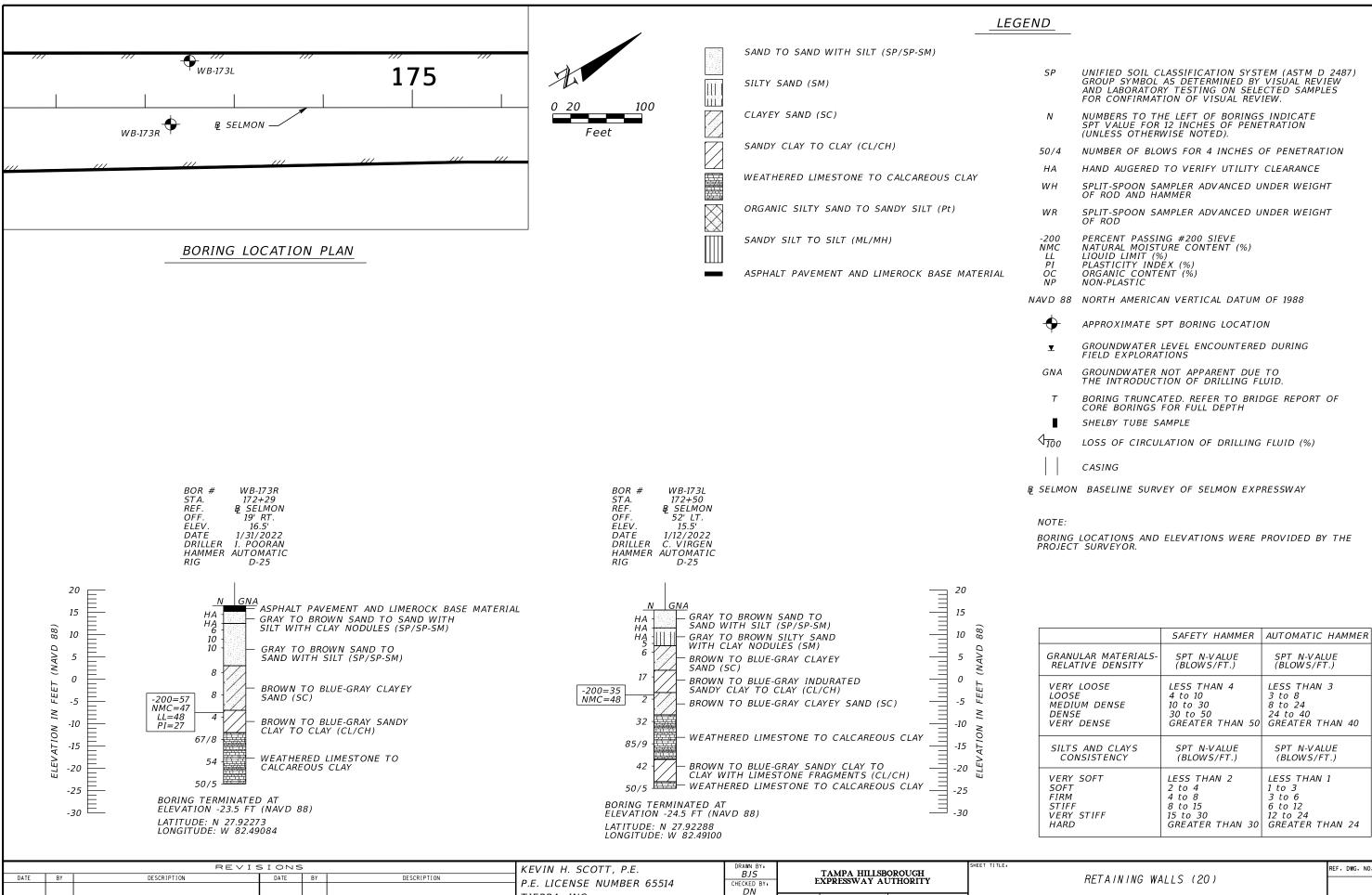
FROM HIMES AVENUE TO WHITING STREET

KHS





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FROM HIMES AVENUE TO WHITING STREET

SOUTH SELMON EXPRESSWAY IMPROVEMENTS

SHEET NO.

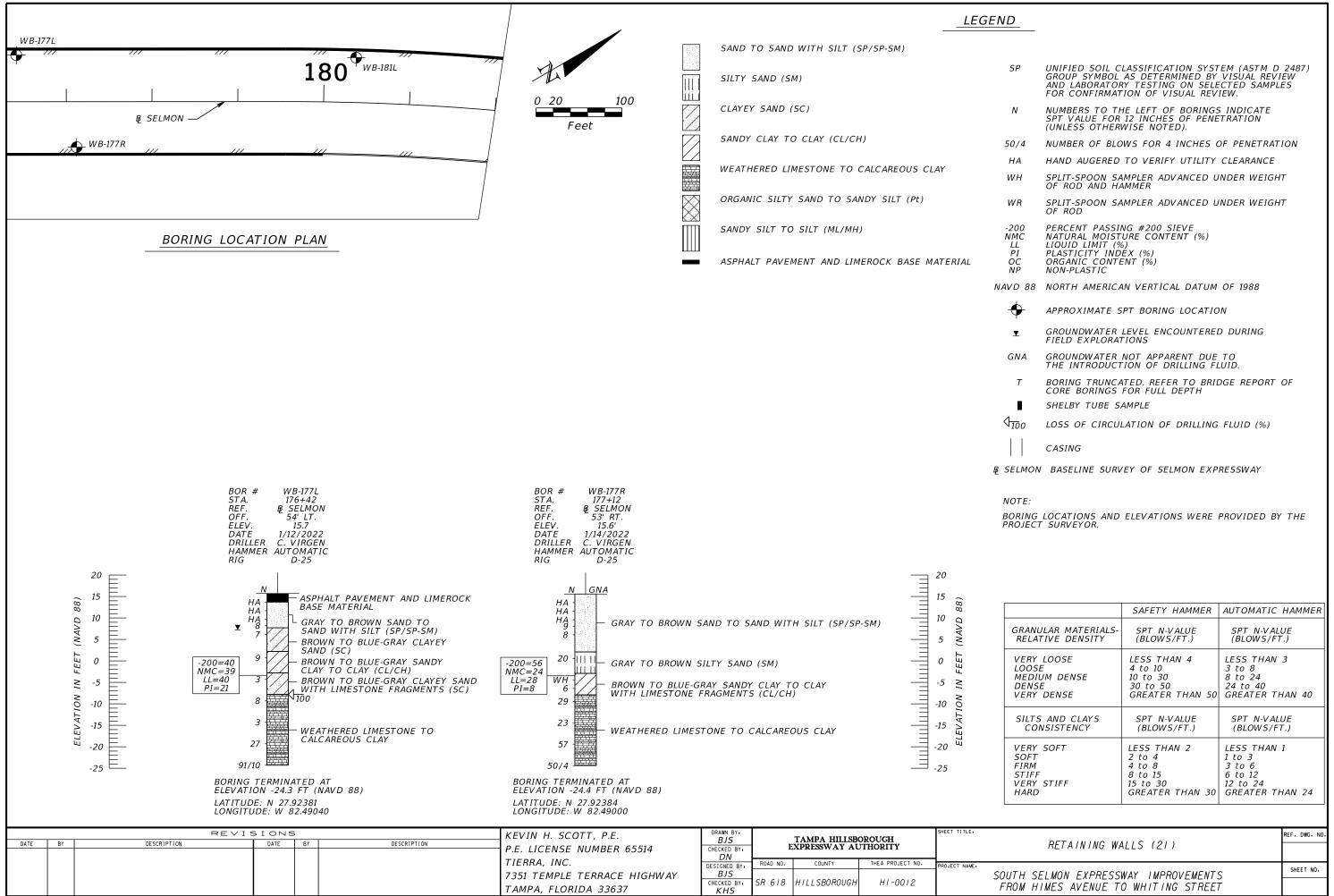
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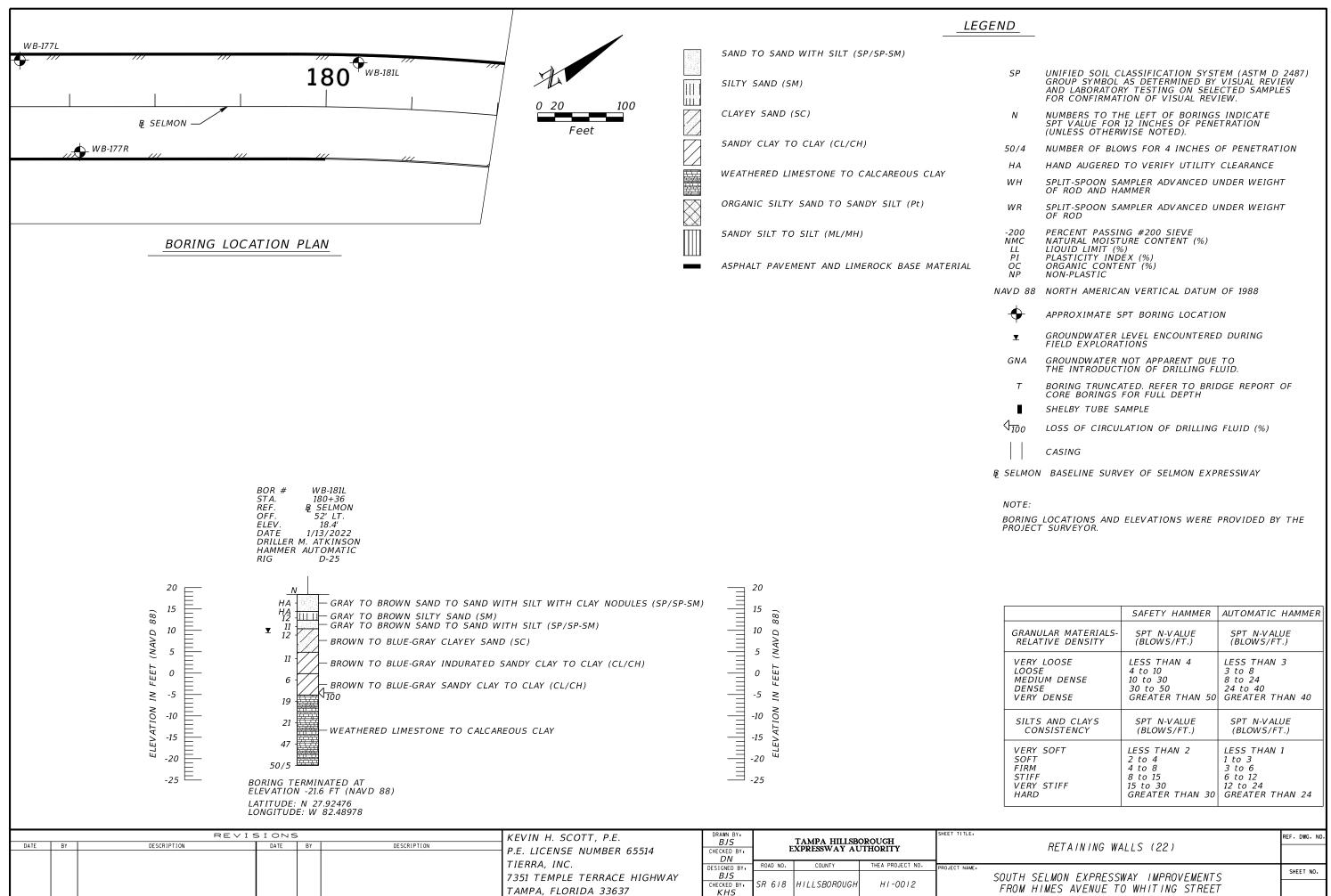
TIERRA, INC.

7351 TEMPLE TERRACE HIGHWAY

TAMPA, FLORIDA 33637

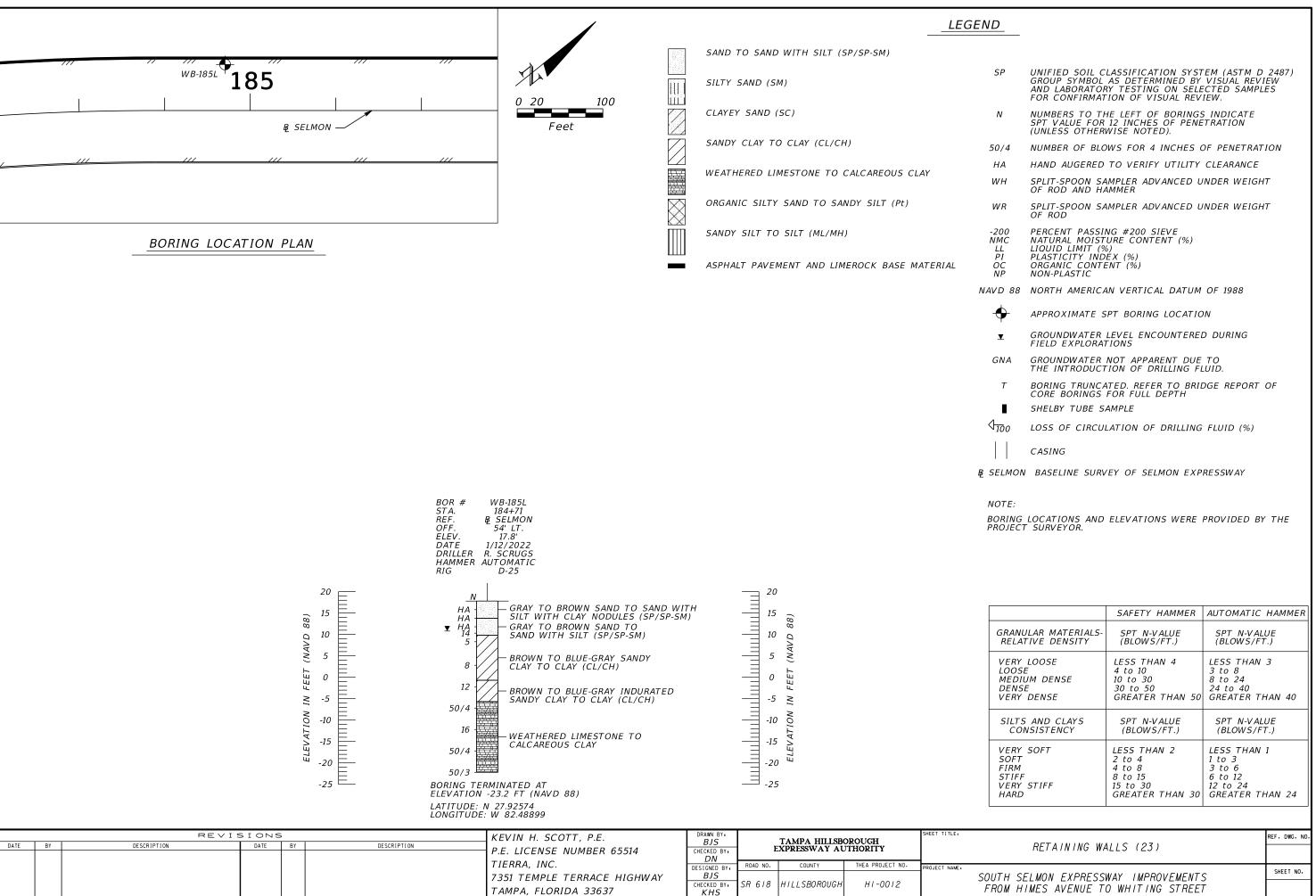
COUNTY THEA PROJECT NO. HILLSBOROUGH HI-0012

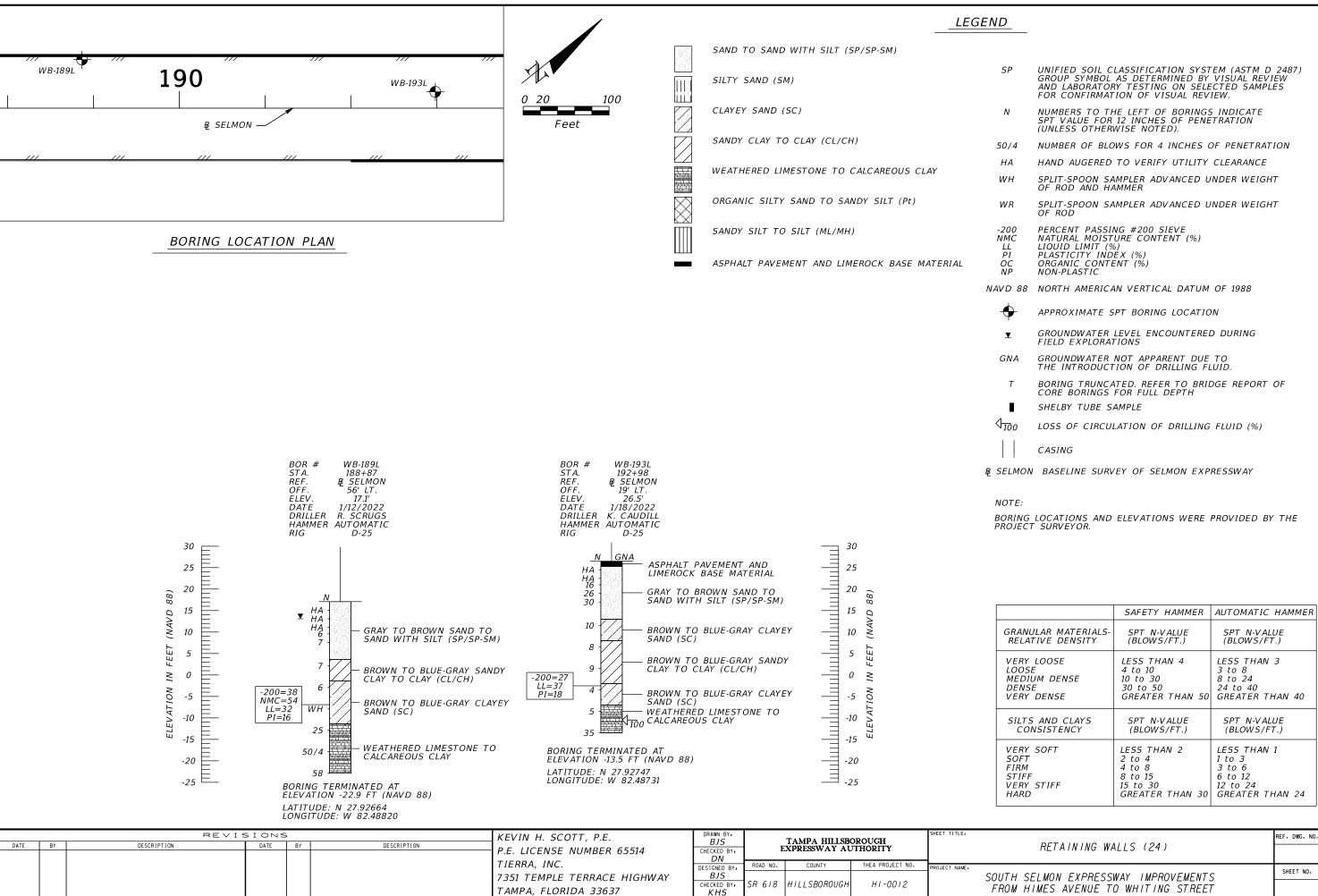


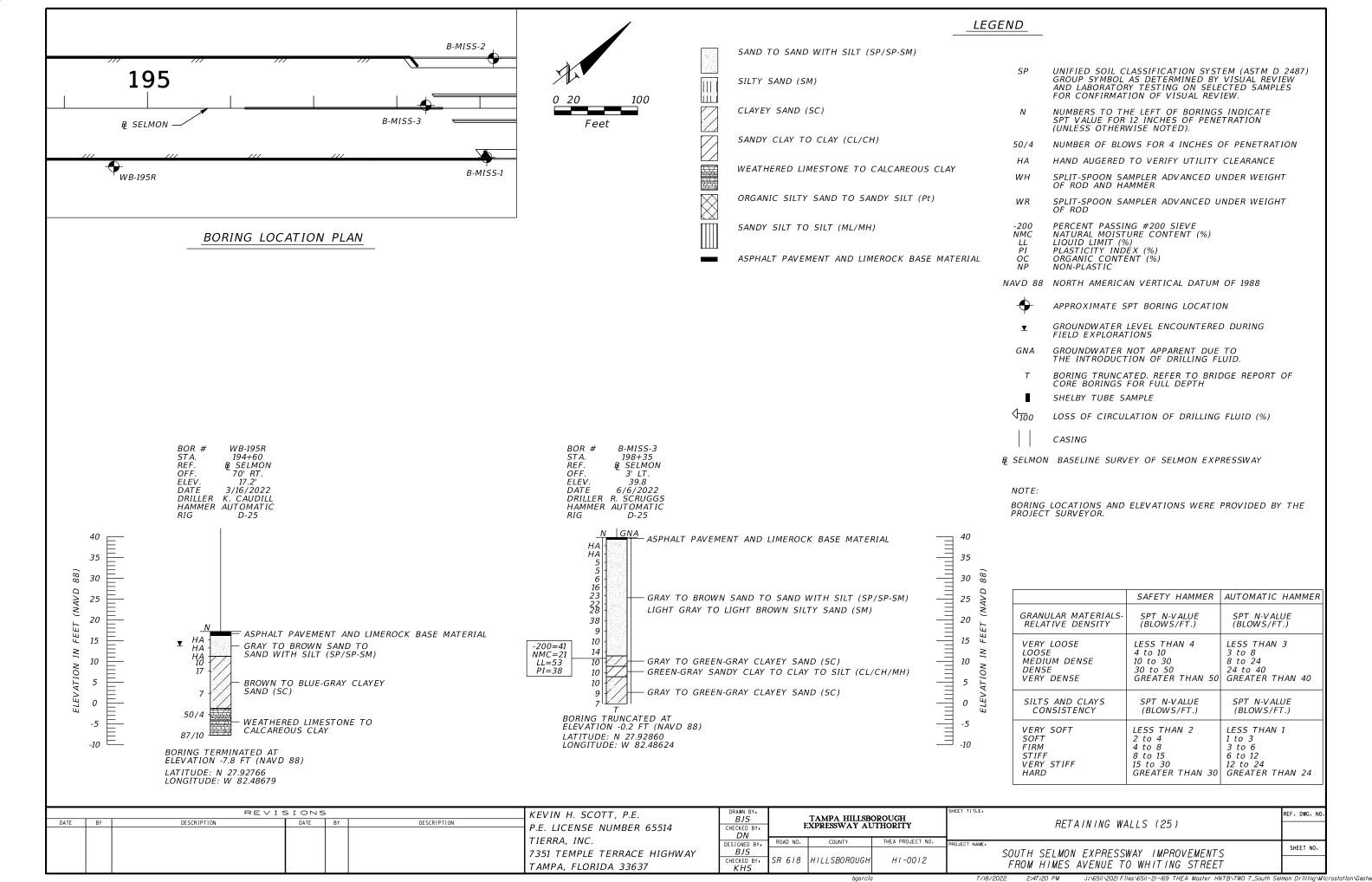


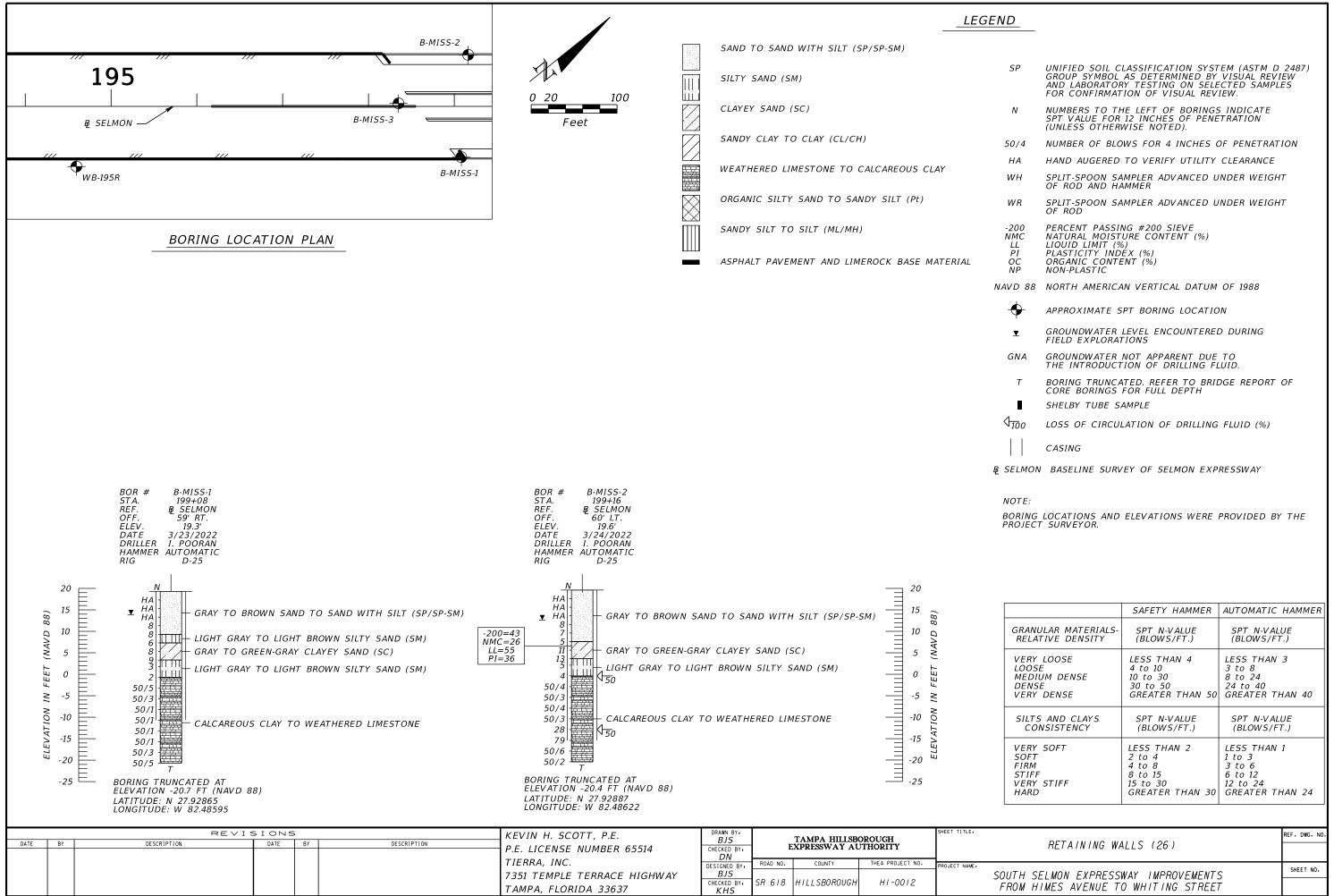
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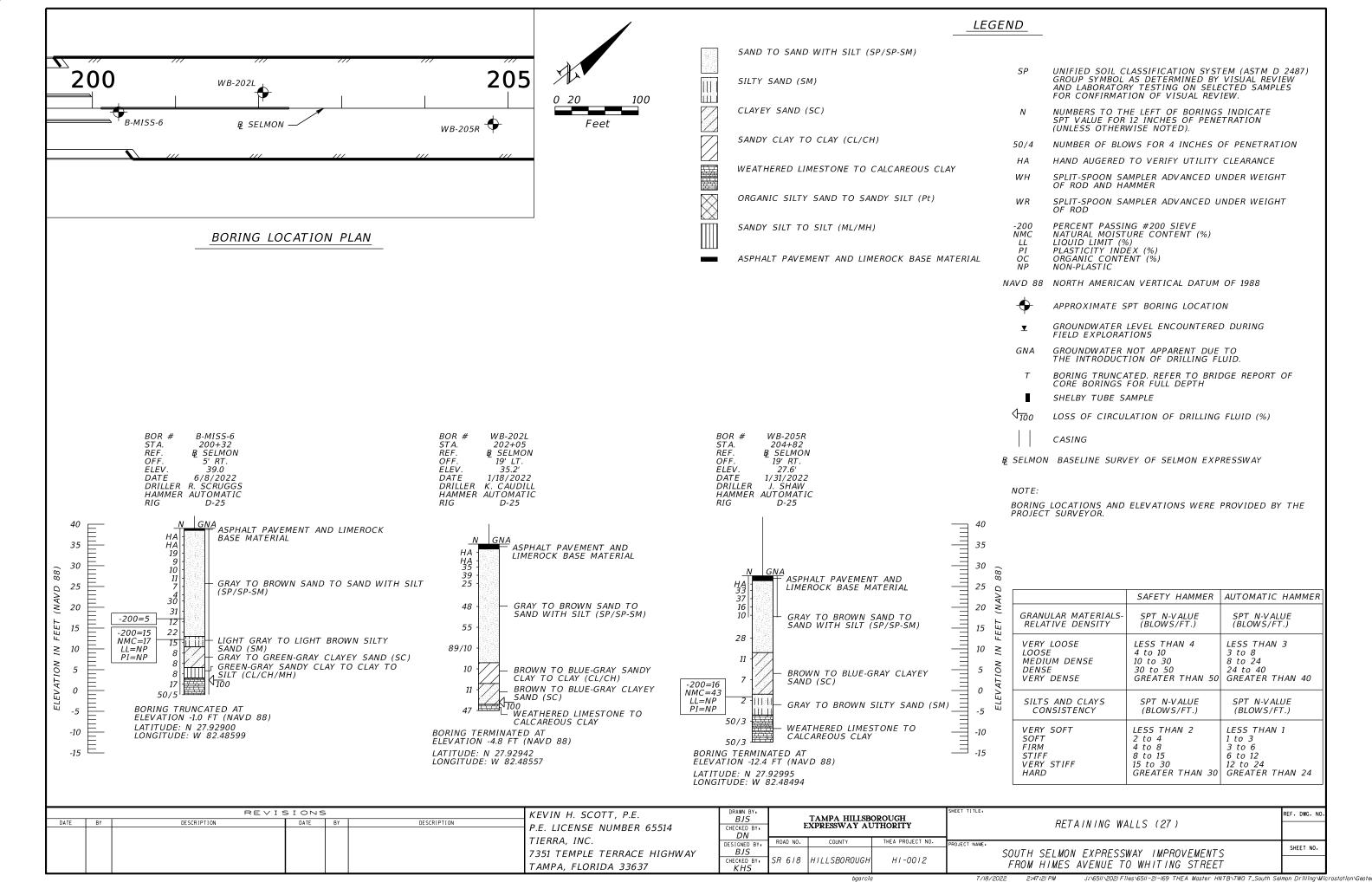


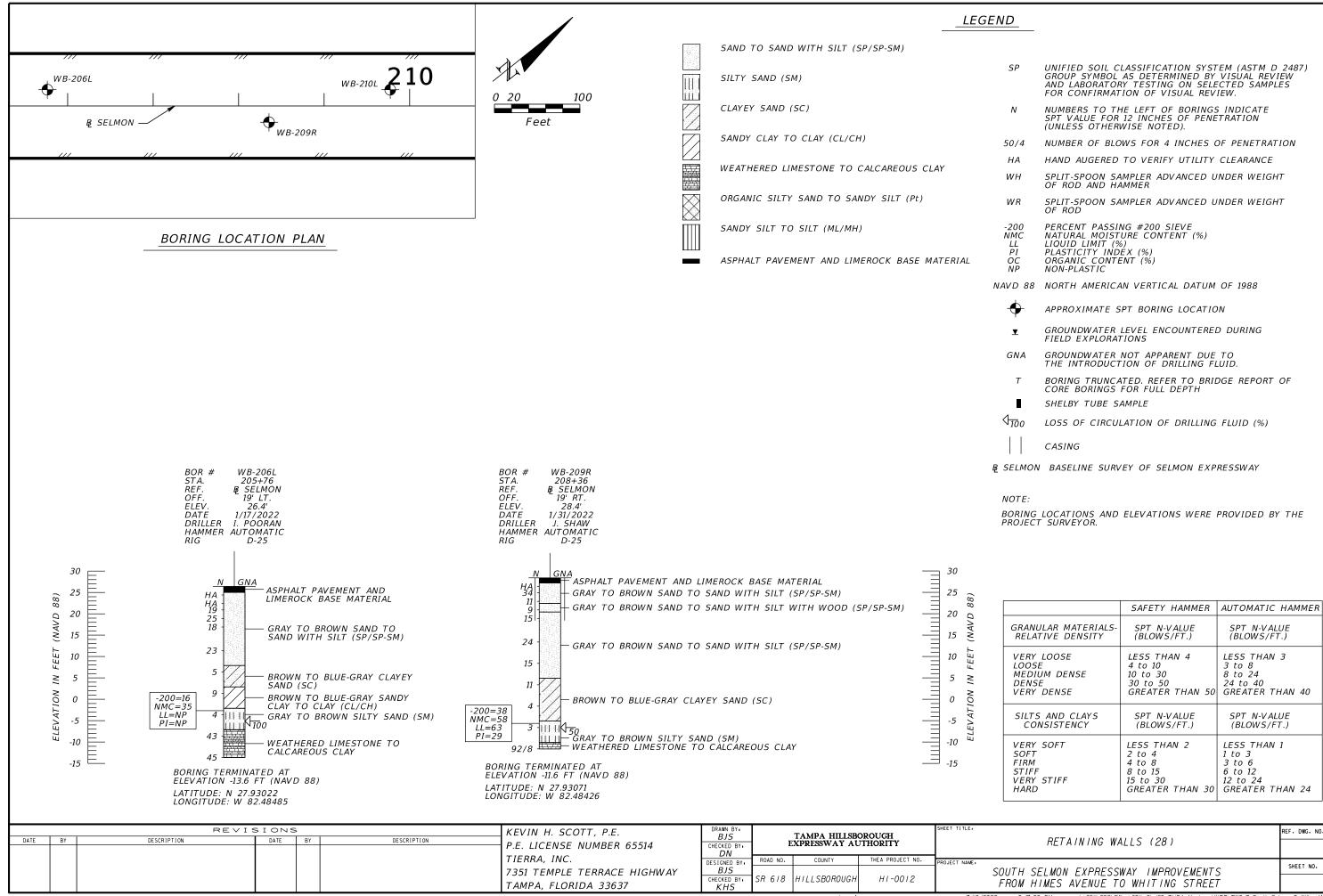


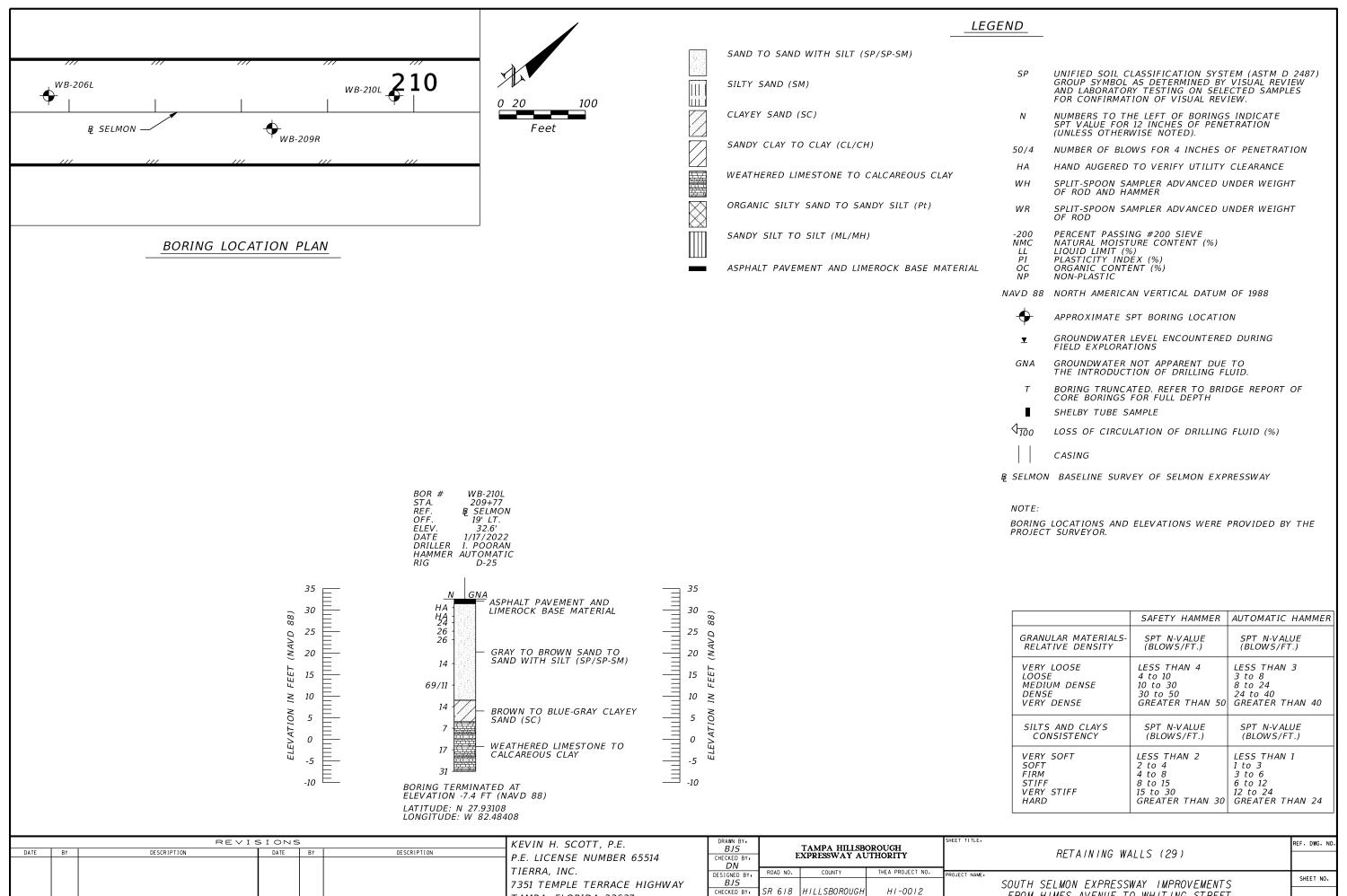


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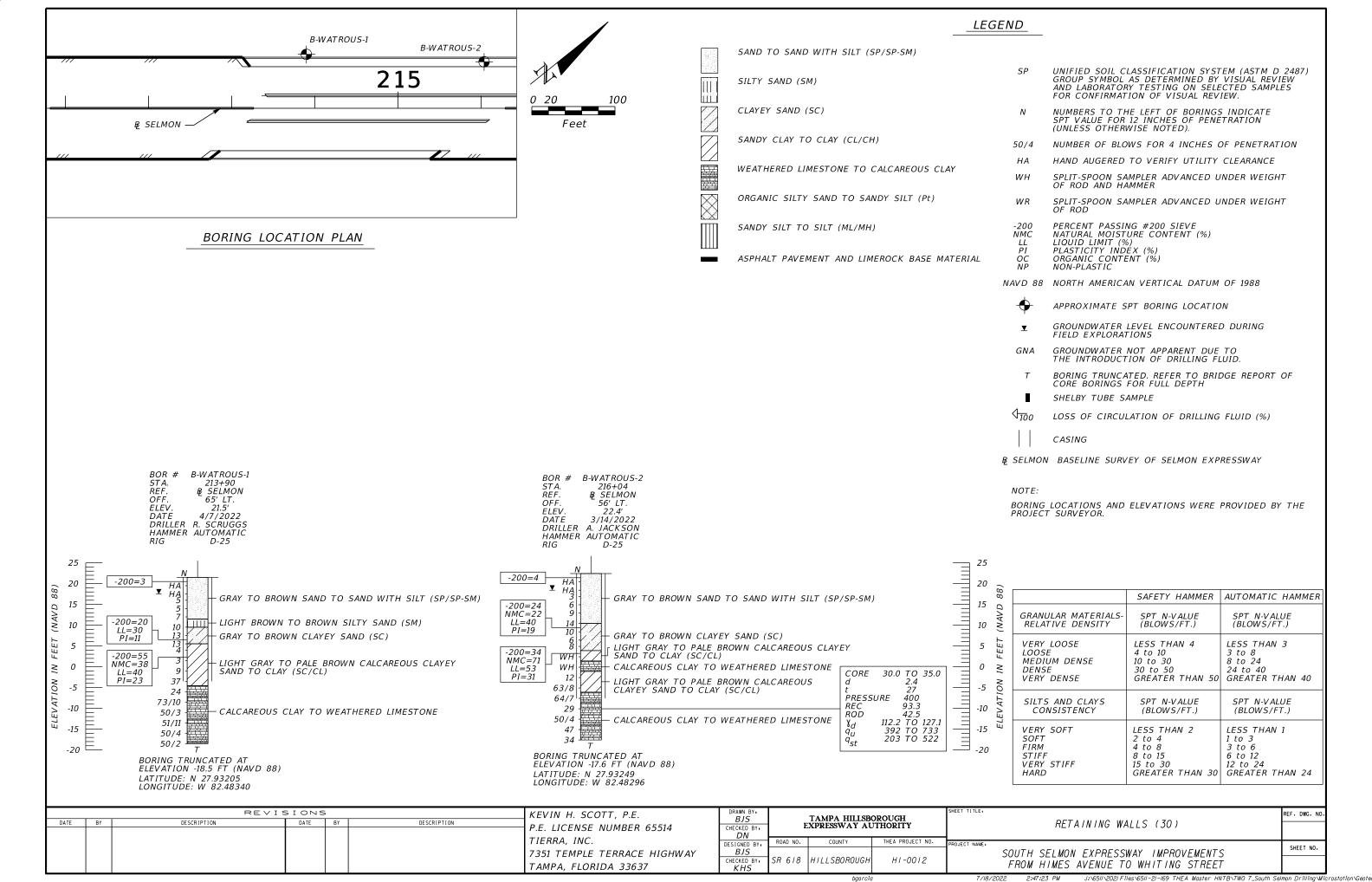


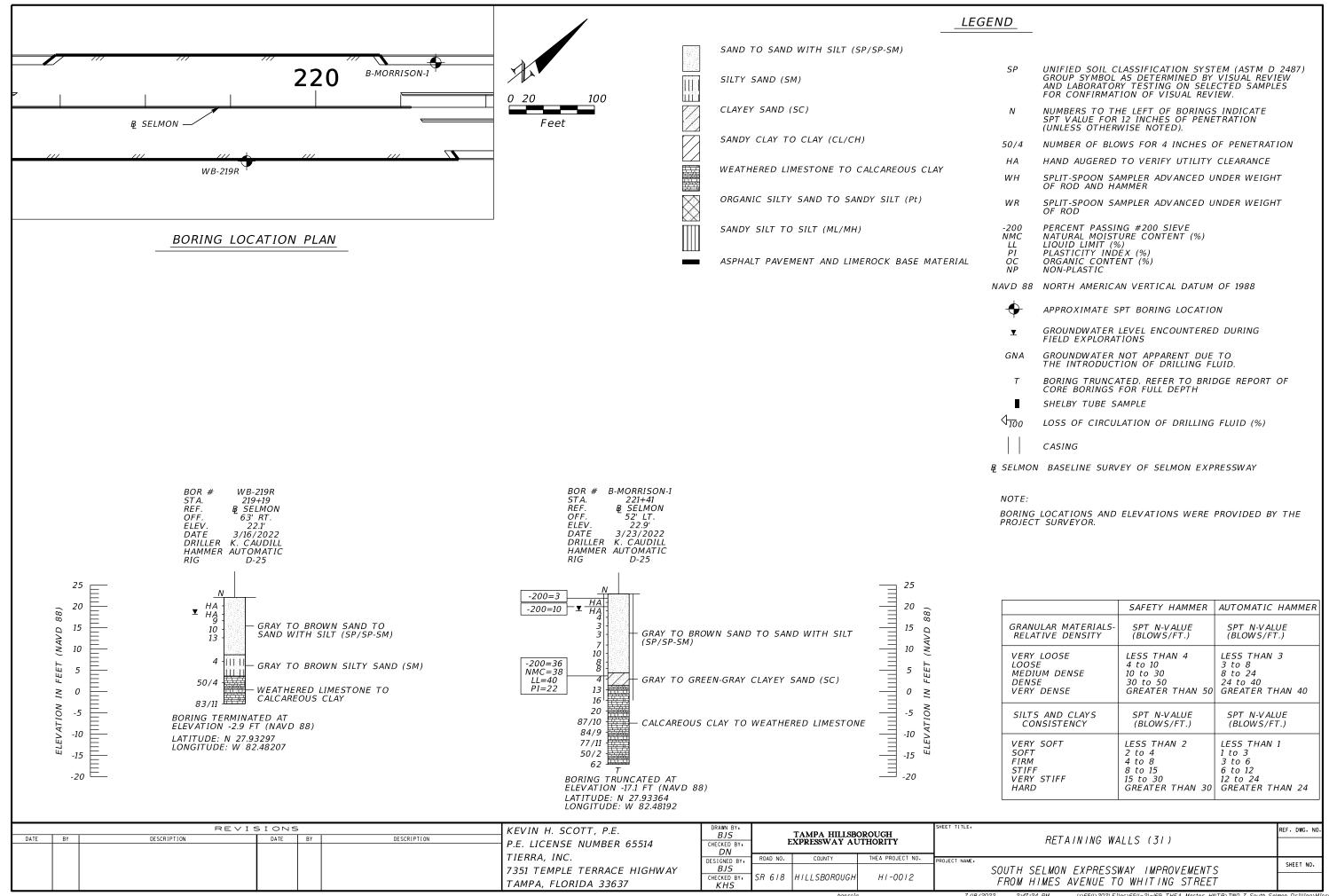


TAMPA, FLORIDA 33637

KHS

FROM HIMES AVENUE TO WHITING STREET





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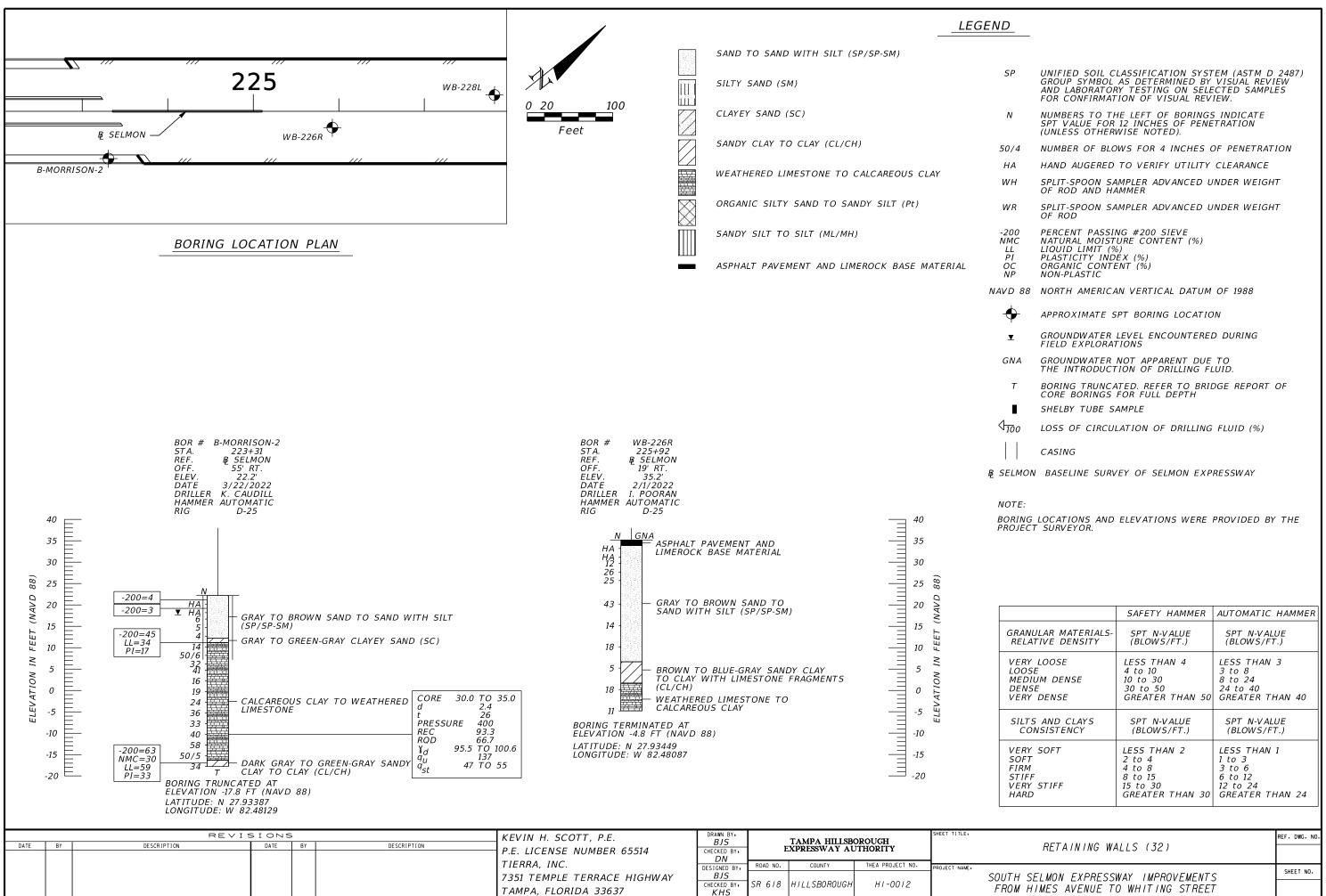
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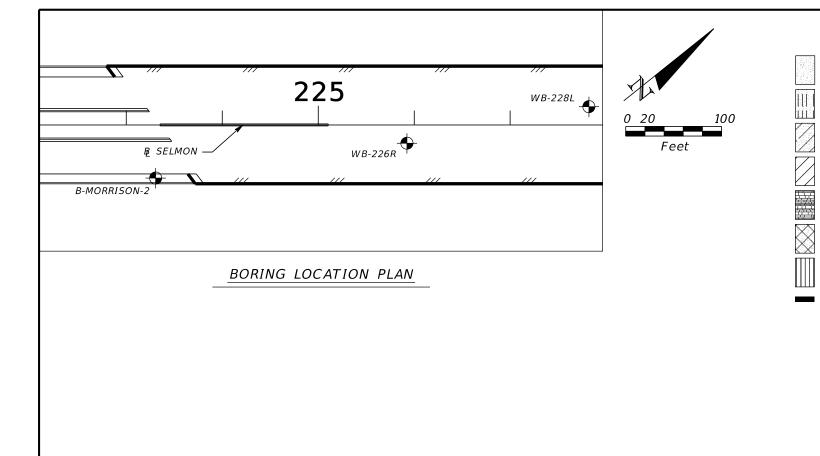
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≥ -15





BOR #

STA. REF.

OFF. ELEV.

RIG

HA 20 58 50/6

41

36

57

BORING TERMINATED AT ELEVATION -9.4 FT (NAVD 88) LATITUDE: N 27.93497 LONGITUDE: W 82.48060

50/6

-200=19 NMC=38 LL=NP PI=NP

35

30

25

15

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-10

(NAVD 20

ION 5 DATE

WB-228L

227+82 B SELMON 19' LT.

30.6

1/17/2022

D-25

ASPHALT PAVEMENT AND LIMEROCK BASE MATERIAL

GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)

BROWN TO BLUE-GRAY CLAYEY

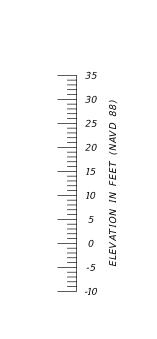
WEATHERED LIMESTONE TO

CALCAREOUS CLAY

GRAY TO BROWN SILTY SAND (SM)

SAND (SC)

DRILLER I. POORAN HAMMER AUTOMATIC



LEGEND

SAND TO SAND WITH SILT (SP/SP-SM)

SILTY SAND (SM)

CLAYEY SAND (SC)

SANDY CLAY TO CLAY (CL/CH)

WEATHERED LIMESTONE TO CALCAREOUS CLAY

ORGANIC SILTY SAND TO SANDY SILT (Pt)

SANDY SILT TO SILT (ML/MH)

ASPHALT PAVEMENT AND LIMEROCK BASE MATERIAL

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW
AND LABORATORY TESTING ON SELECTED SAMPLES
FOR CONFIRMATION OF VISUAL REVIEW.

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

HAHAND AUGERED TO VERIFY UTILITY CLEARANCE SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT WH

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT WROF ROD

PERCENT PASSING #200 SIEVE NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) -200 NMC LL PI

OF ROD AND HAMMER

PLASTICITY INDEX (%) OC NP ORGANIC CONTENT (%) NON-PLASTIC

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION

GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

GNAGROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID.

BORING TRUNCATED. REFER TO BRIDGE REPORT OF CORE BORINGS FOR FULL DEPTH

SHELBY TUBE SAMPLE

LOSS OF CIRCULATION OF DRILLING FLUID (%)

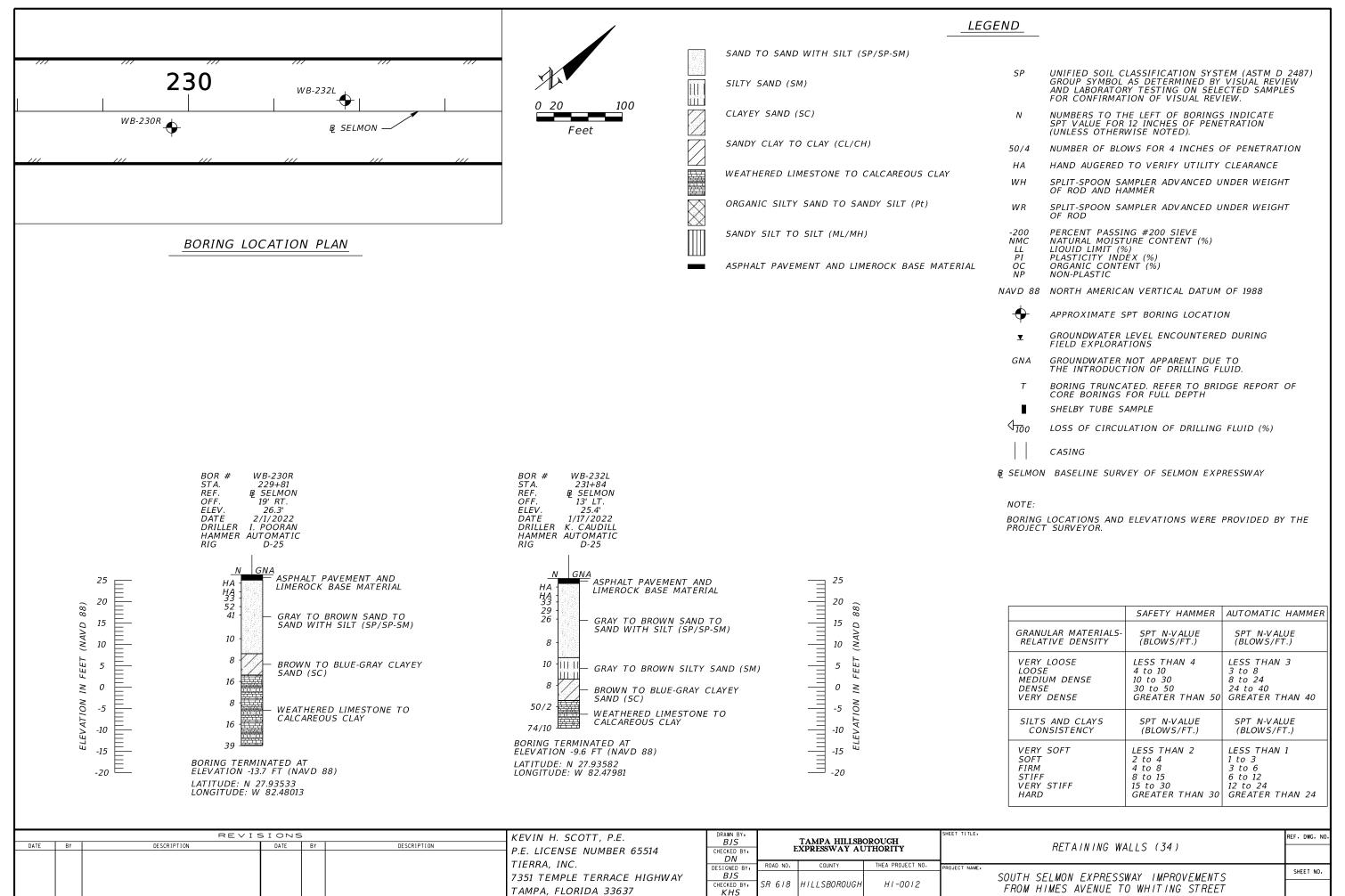
CASING

₽ SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

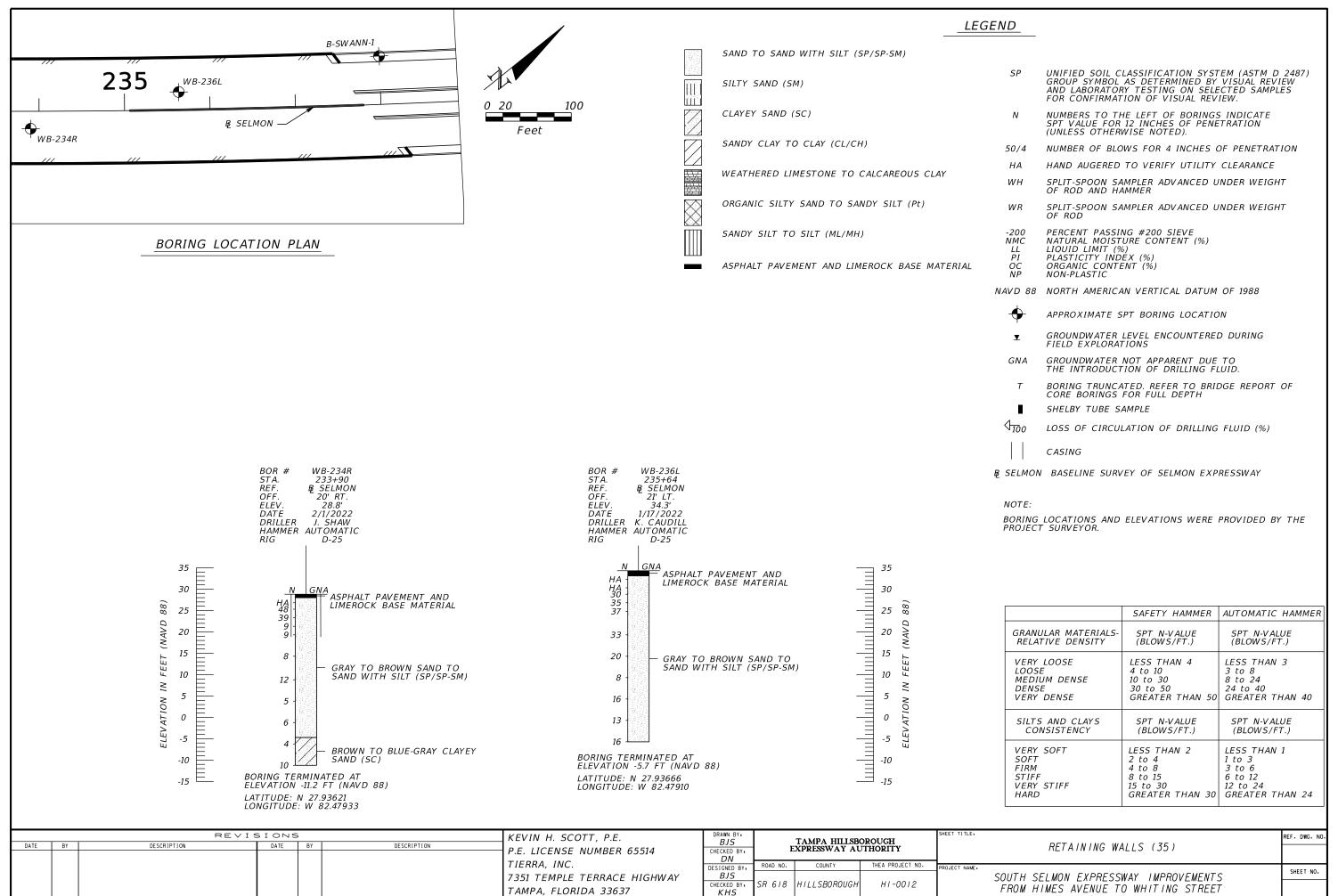
BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR

	SAFETY HAMMER	AUTOMATIC HAMMER		
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE		
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)		
VERY LOOSE	LESS THAN 4	LESS THAN 3		
LOOSE	4 to 10	3 to 8		
MEDIUM DENSE	10 to 30	8 to 24		
DENSE	30 to 50	24 to 40		
VERY DENSE	GREATER THAN 50	GREATER THAN 40		
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE		
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)		
VERY SOFT	LESS THAN 2	LESS THAN 1		
SOFT	2 to 4	1 to 3		
FIRM	4 to 8	3 to 6		
STIFF	8 to 15	6 to 12		
VERY STIFF	15 to 30	12 to 24		
HARD	GREATER THAN 30	GREATER THAN 24		

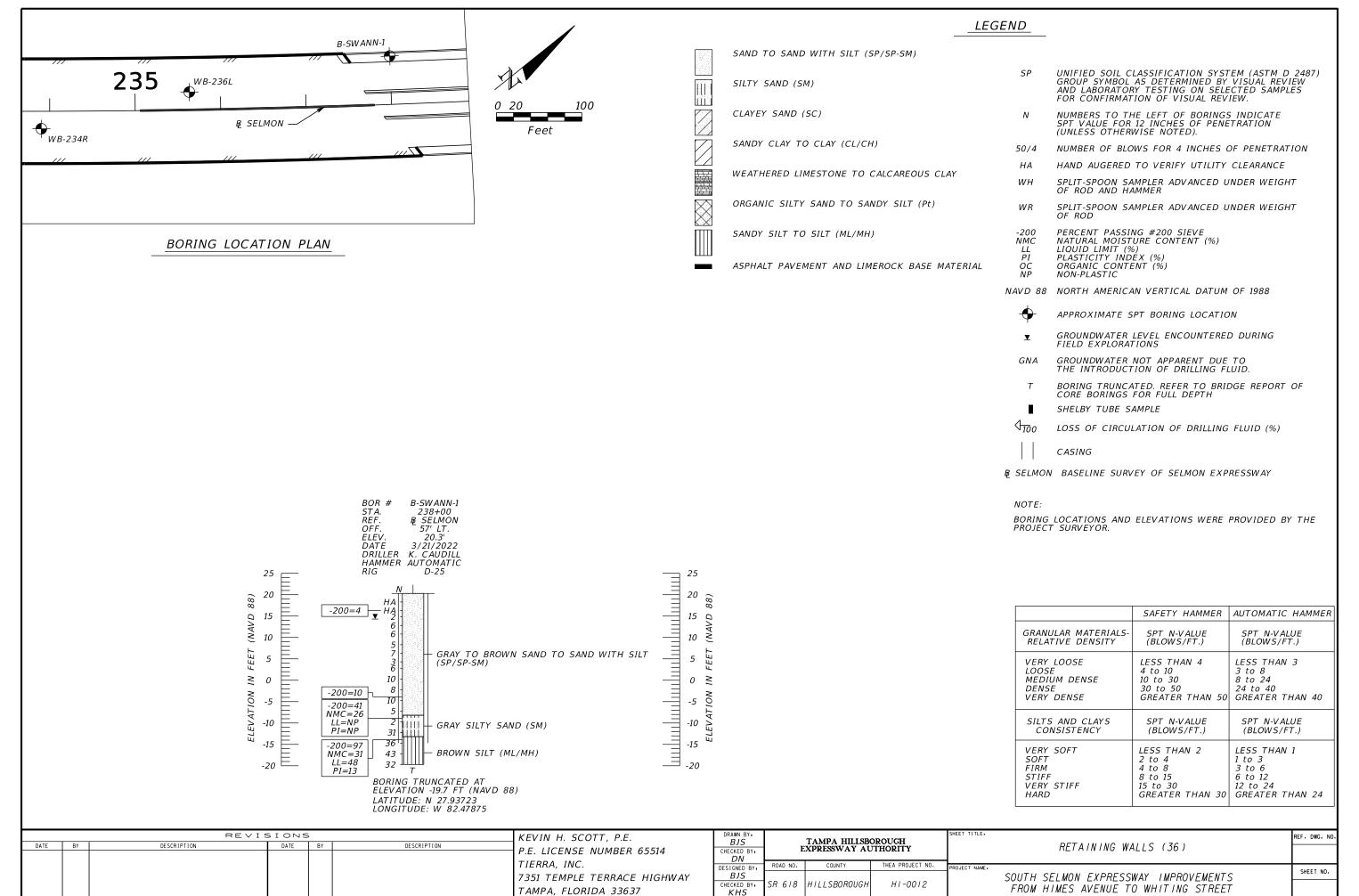
	REVI:	SIONS		KEVIN H. SCOTT, P.E.	DRAWN BY:		TAMPA HILLSB	OBOLICH	SHEET TITLE:		REF. DWG. NO	0.
DATE BY	DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	BJS CHECKED BY:	1	EXPRESSWAY AU	THORITY		RETAINING WALLS (33)		1
				TIERRA, INC.	DN DESIGNED BY:	ROAD NO.	COUNTY	THEA PROJECT NO.	200 1507 1115			4
				7351 TEMPLE TERRACE HIGHWAY	BJS				PROJECT NAME:	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.	
				TAMPA, FLORIDA 33637	CHECKED BY:	SR 618	HILLSBOROUGH	HI-0012		FROM HIMES AVENUE TO WHITING STREET		

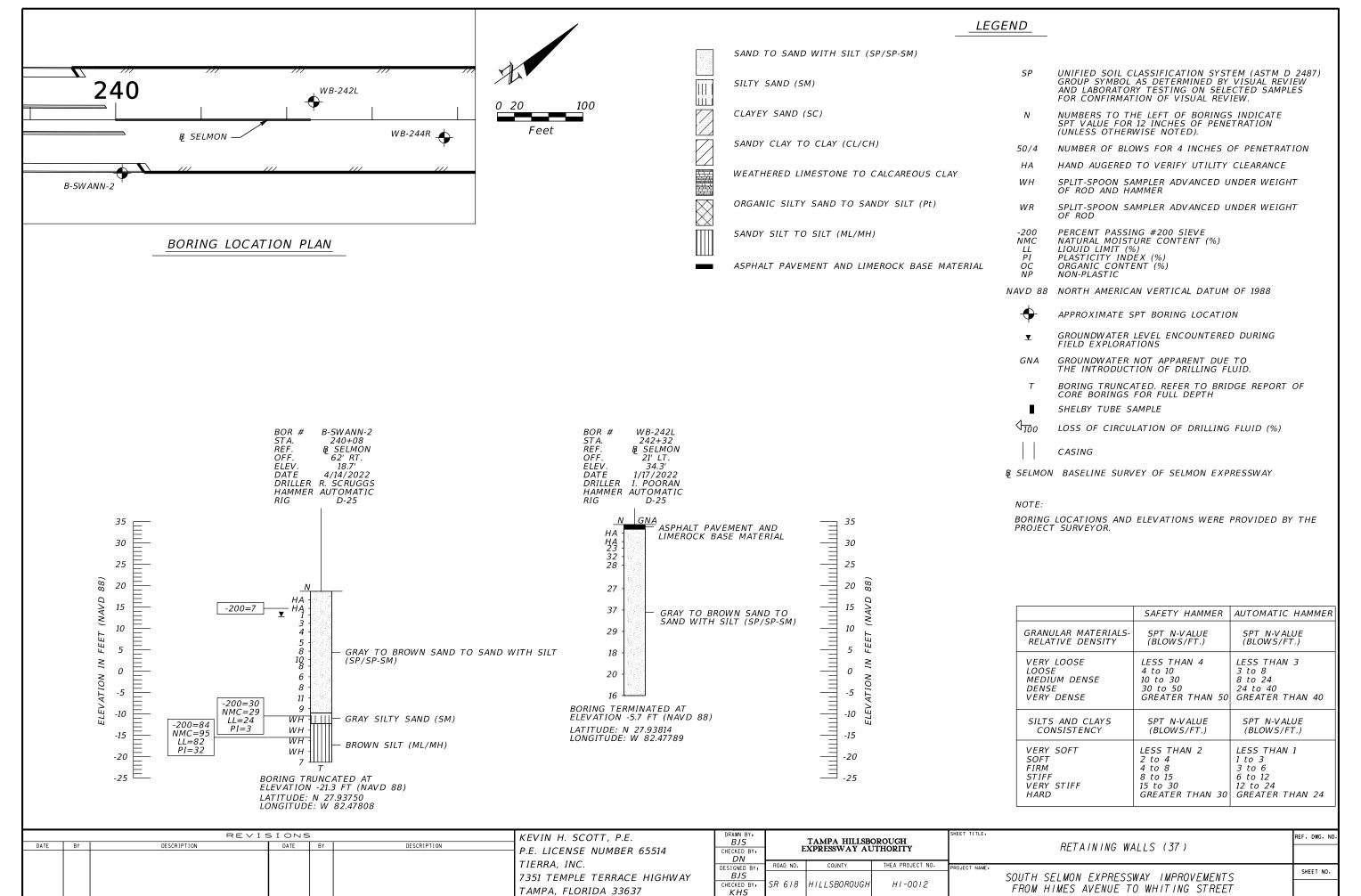


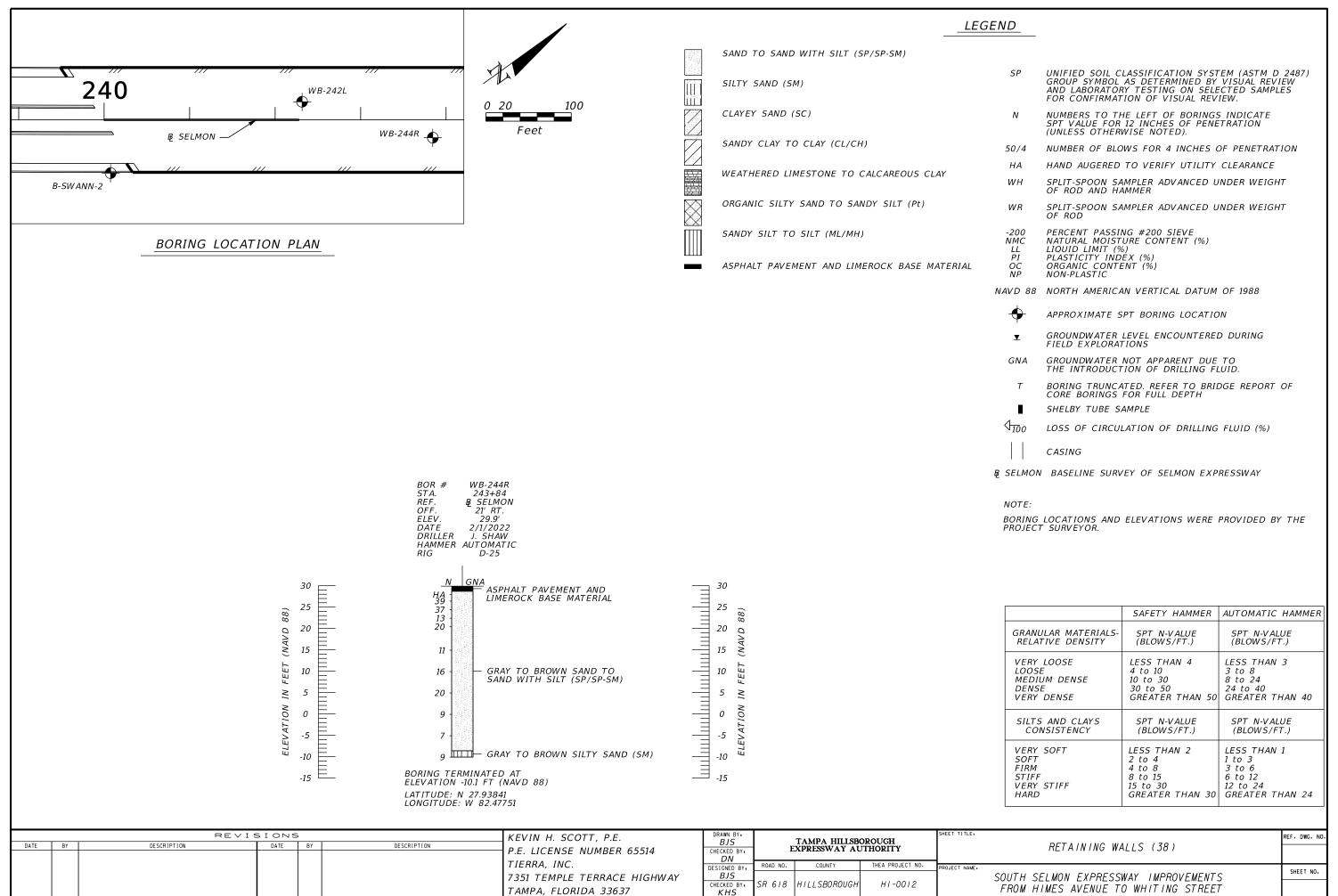
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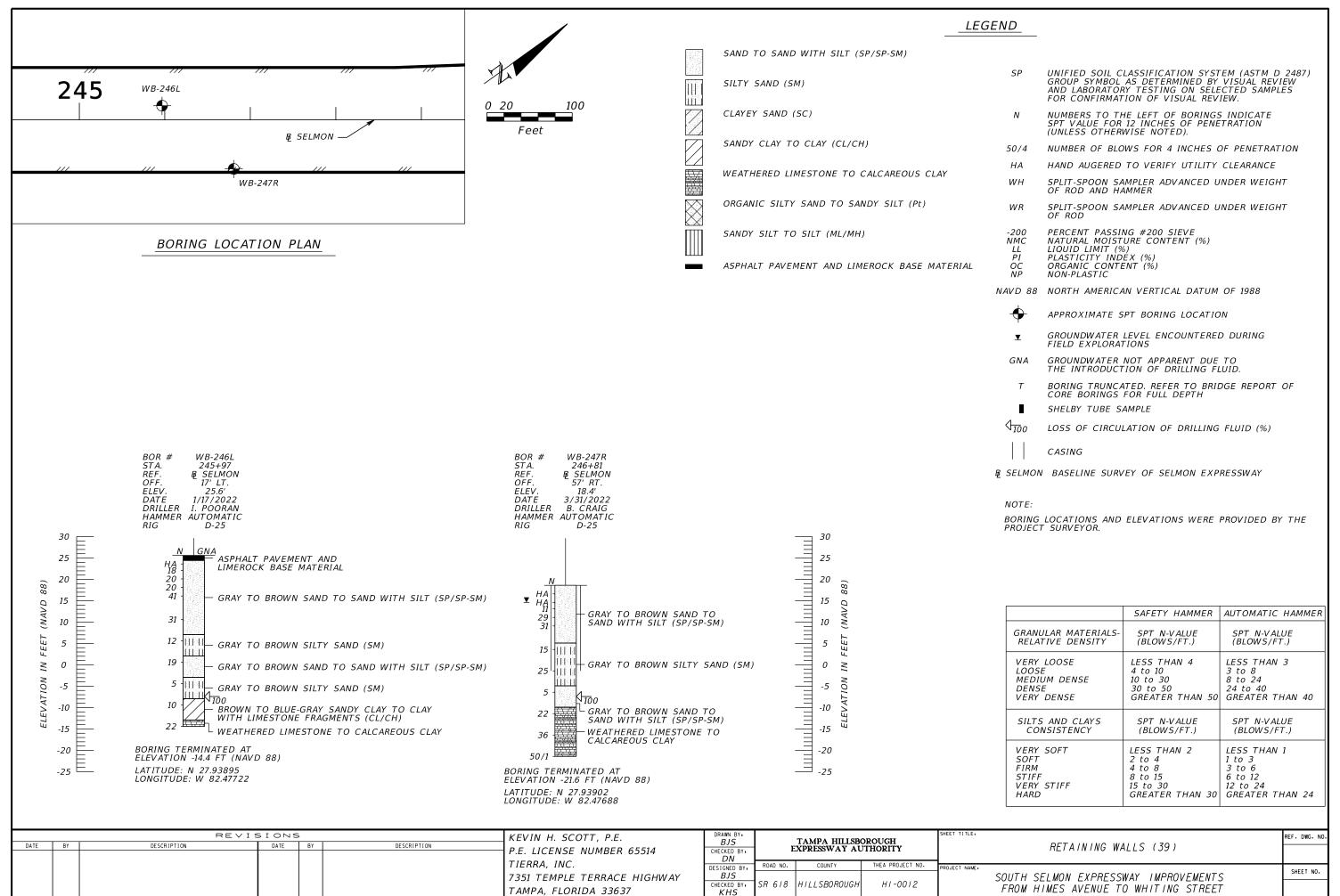


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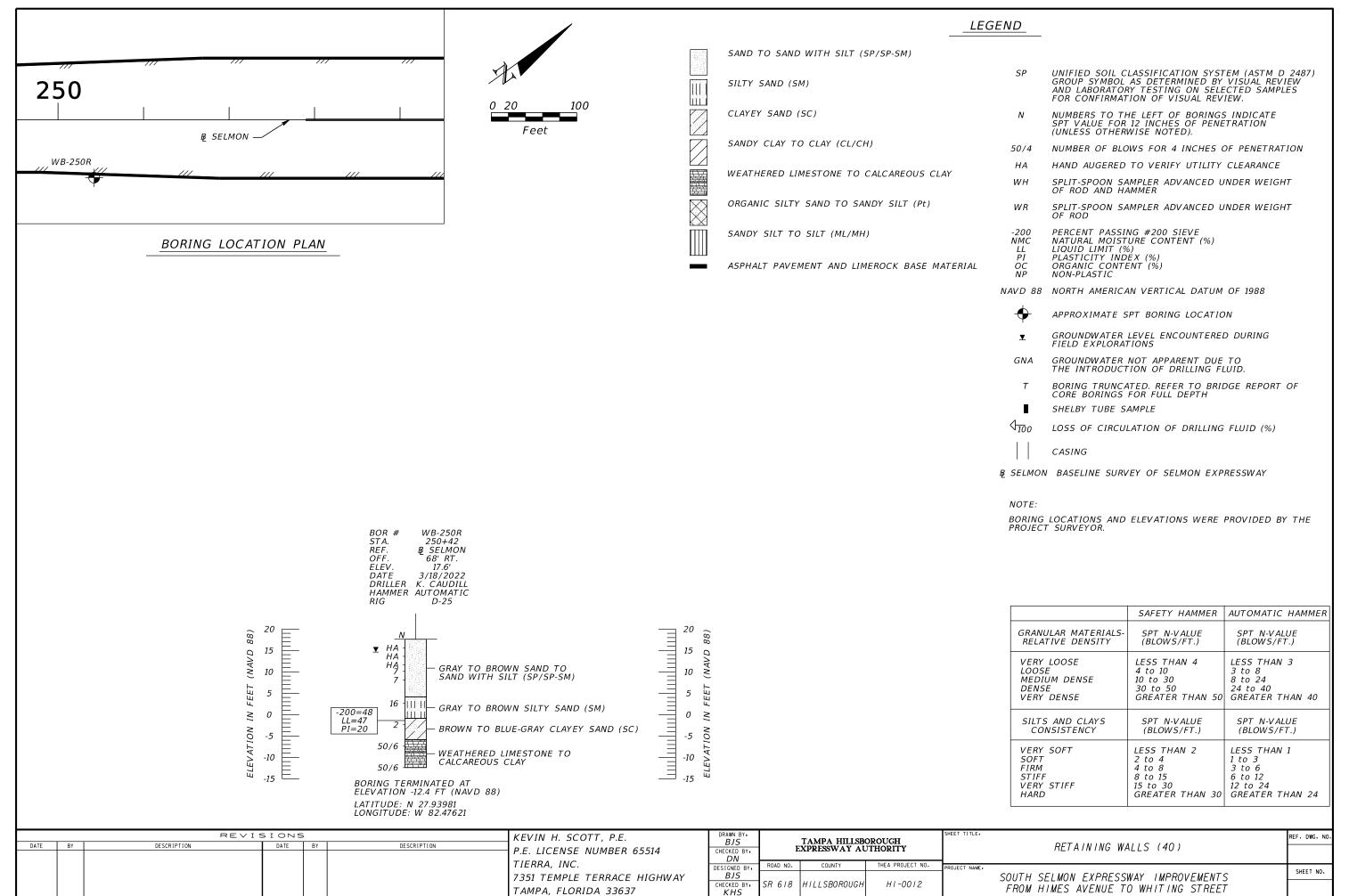






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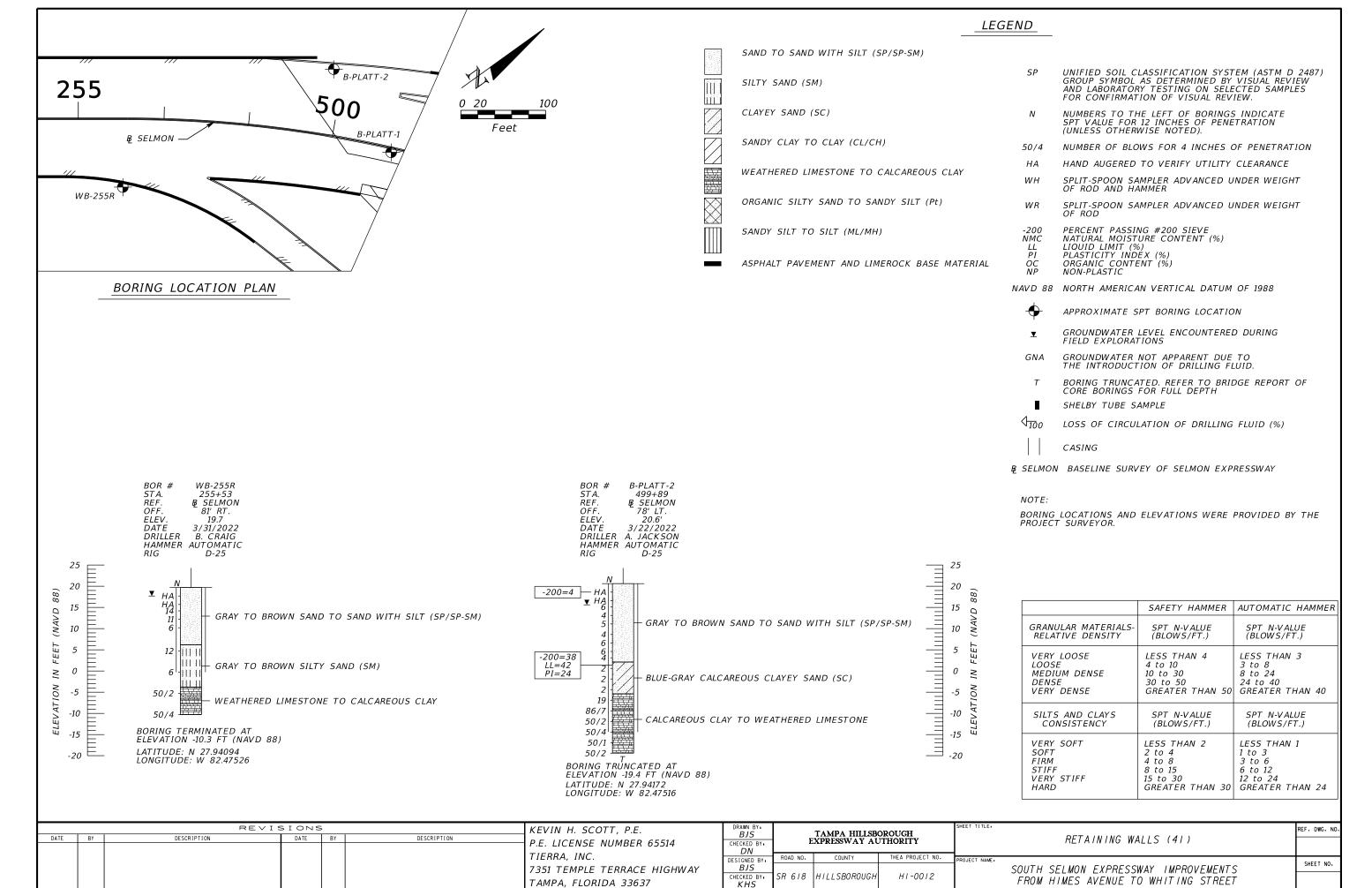
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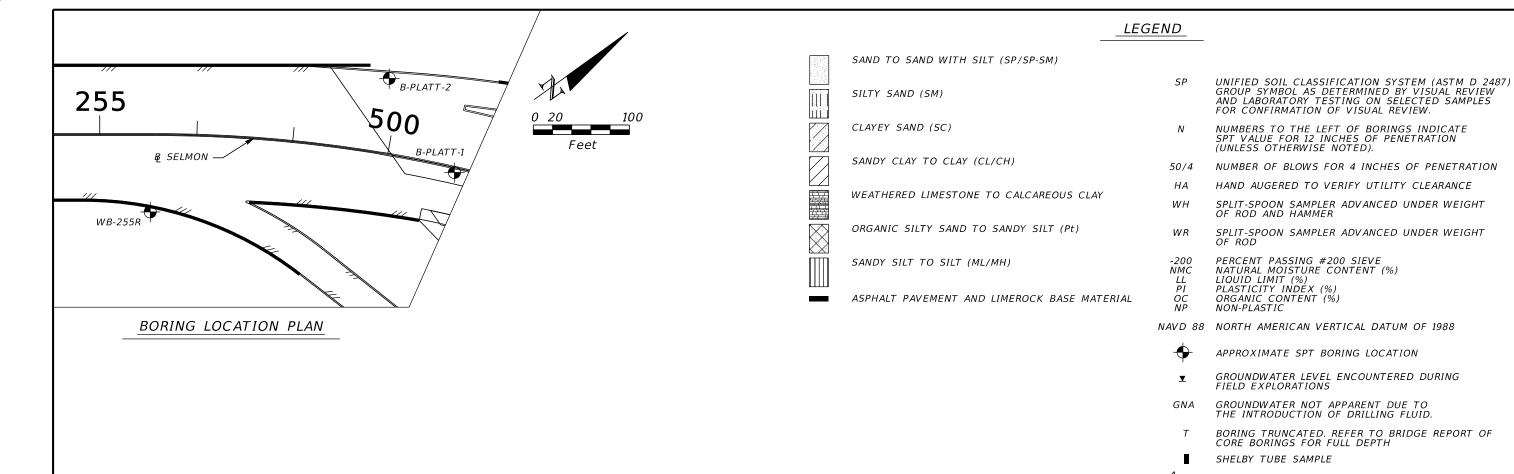
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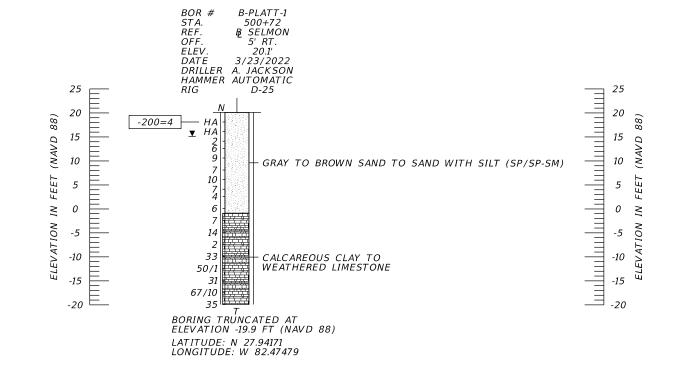
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KEVIN H. SCOTT, P.E.

REVISIONS

DATE

DESCRIPTION

DESCRIPTION

DATE BY

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

LOSS OF CIRCULATION OF DRILLING FLUID (%)

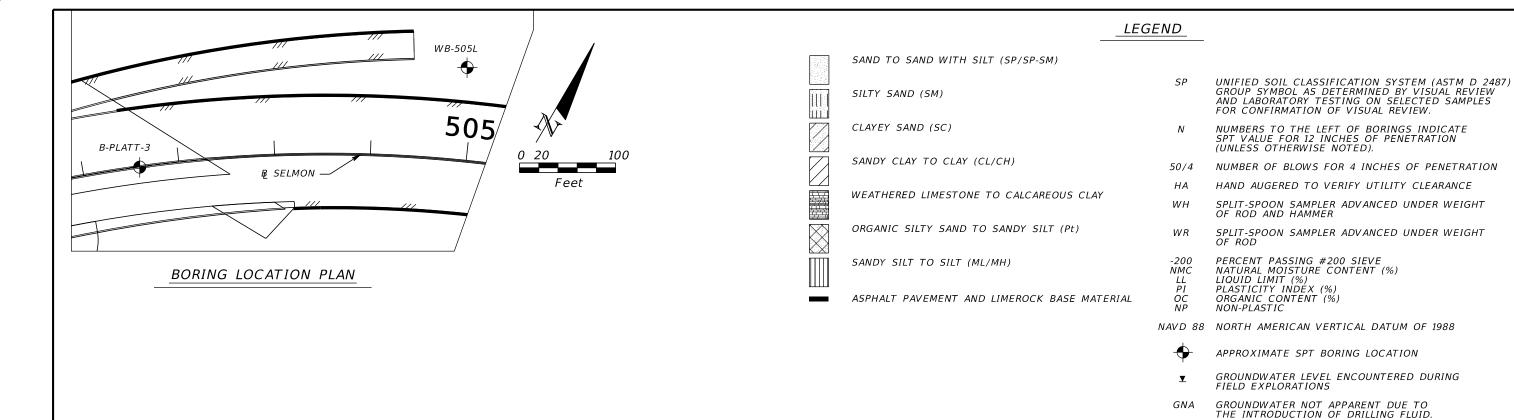
BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE

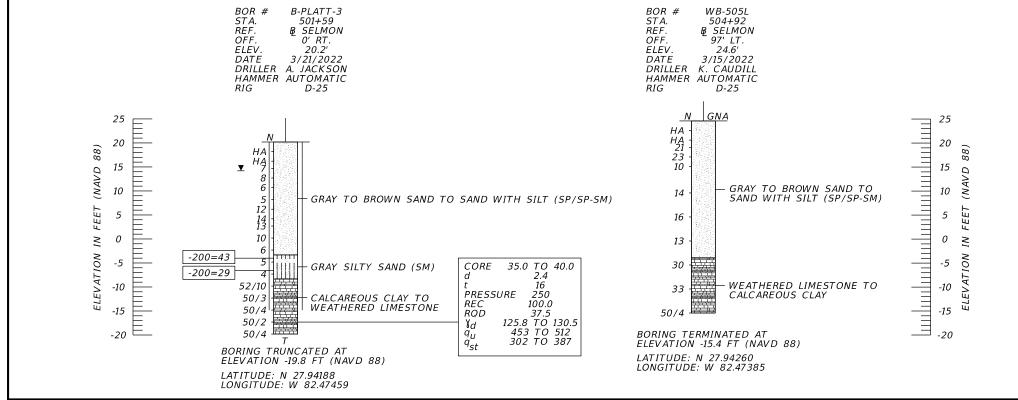
₽ SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

CASING

PROJECT SURVEYOR.

P.E. LICENSE NUMBER 65514	BJS CHECKED BY: DN		TAMPA HILLSBO XPRESSWAY AU		RETAINING WALLS (42)				
TIERRA, INC.	DESIGNED BY	ROAD NO.	COUNTY	THEA PROJECT NO.	PROJECT NAME:				
7351 TEMPLE TERRACE HIGHWAY	BJS	00.010				SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.		
TAMPA, FLORIDA 33637	CHECKED BY: KHS	SR 618	HILLSBOROUGH	HI-0012		FROM HIMES AVENUE TO WHITING STREET			





DESCRIPTION

KEVIN H. SCOTT, P.E.

REVISIONS

DATE

DESCRIPTION

DATE BY

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

BORING TRUNCATED. REFER TO BRIDGE REPORT OF CORE BORINGS FOR FULL DEPTH

LOSS OF CIRCULATION OF DRILLING FLUID (%)

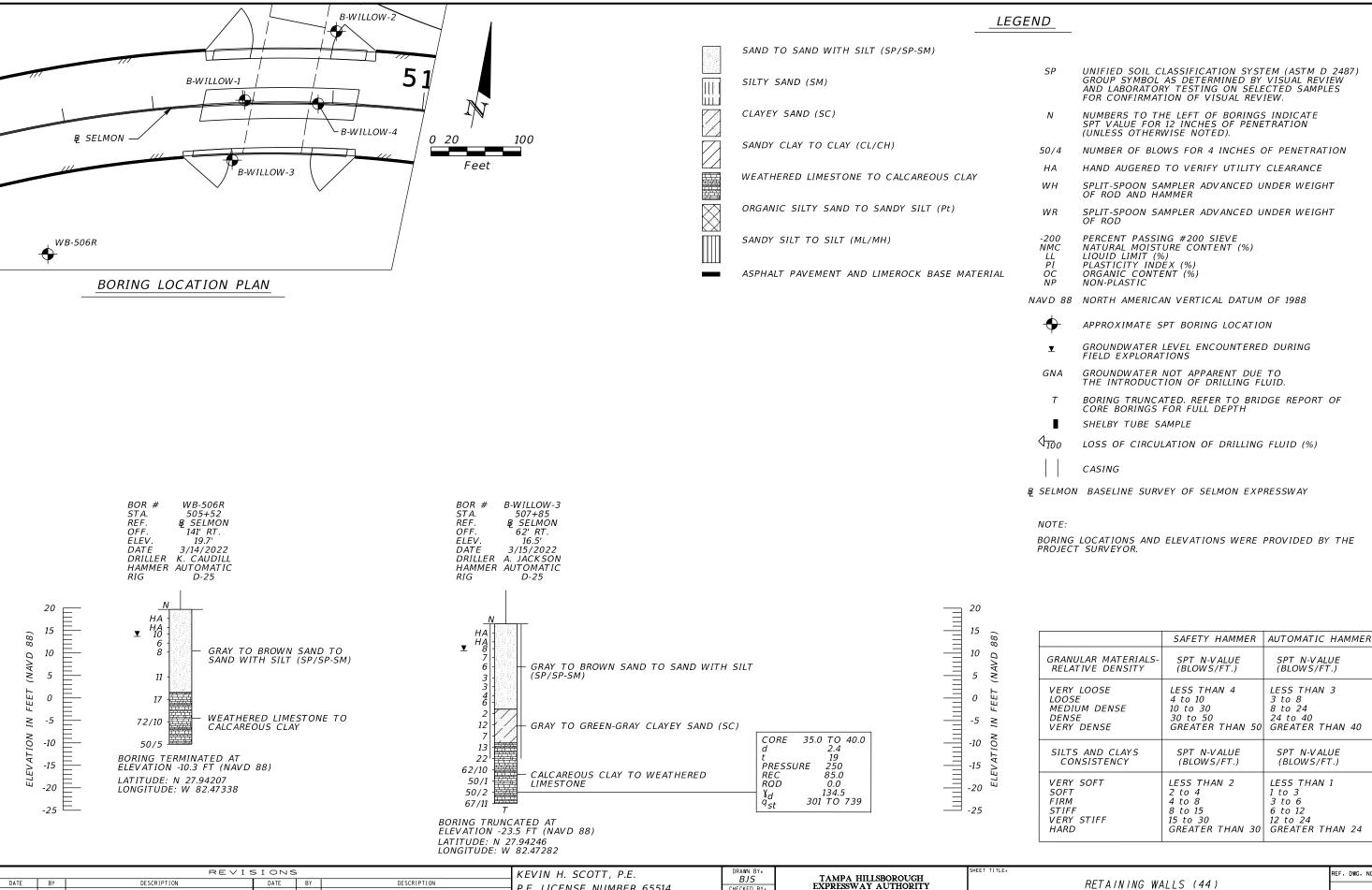
BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE

₽ SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

SHELBY TUBE SAMPLE

PROJECT SURVEYOR.

	P.E. LICENSE NUMBER 65514	BJS CHECKED BY: DN	TAMPA HILLSBOROUGH EXPRESSWAY AUTHORITY			RETAINING WALLS (43)
	TIERRA, INC.	DESIGNED BY:	ROAD NO.	COUNTY	THEA PROJECT NO.	PROJECT NAME. SHEET NO.
	7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637		SR 618	HILLSBOROUGH	HI-0012	SOUTH SELMON EXPRESSWAY IMPROVEMENTS FROM HIMES AVENUE TO WHITING STREET
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P.E. LICENSE NUMBER 65514

TAMPA, FLORIDA 33637

7351 TEMPLE TERRACE HIGHWAY

TIERRA, INC.

FROM HIMES AVENUE TO WHITING STREET

SHEET NO.

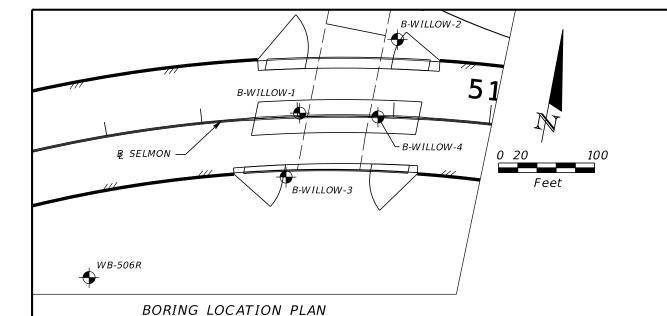
ESIGNED BY BJS SR 618 KHS

CHECKED BY

DN ROAD NO. COUNTY HILLSBOROUGH

THEA PROJECT NO. HI-0012

RETAINING WALLS (44) SOUTH SELMON EXPRESSWAY IMPROVEMENTS



B-WILLOW-1

REVISIONS

DATE

DESCRIPTION

DATE BY

SAND TO SAND WITH SILT (SP/SP-SM) SILTY SAND (SM) $\Pi \Gamma$ CLAYEY SAND (SC) SANDY CLAY TO CLAY (CL/CH) WEATHERED LIMESTONE TO CALCAREOUS CLAY ORGANIC SILTY SAND TO SANDY SILT (Pt) SANDY SILT TO SILT (ML/MH) ASPHALT PAVEMENT AND LIMEROCK BASE MATERIAL

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW
AND LABORATORY TESTING ON SELECTED SAMPLES
FOR CONFIRMATION OF VISUAL REVIEW.

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION HAND AUGERED TO VERIFY UTILITY CLEARANCE

SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT WH OF ROD AND HAMMER

WRSPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT

PERCENT PASSING #200 SIEVE NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) -200 NMC LL PI PLASTICITY INDÉX (%) ORGANIC CONTENT (%)

NON-PLASTIC

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION

GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID.

BORING TRUNCATED. REFER TO BRIDGE REPORT OF CORE BORINGS FOR FULL DEPTH

SHELBY TUBE SAMPLE

LOSS OF CIRCULATION OF DRILLING FLUID (%)

CASING

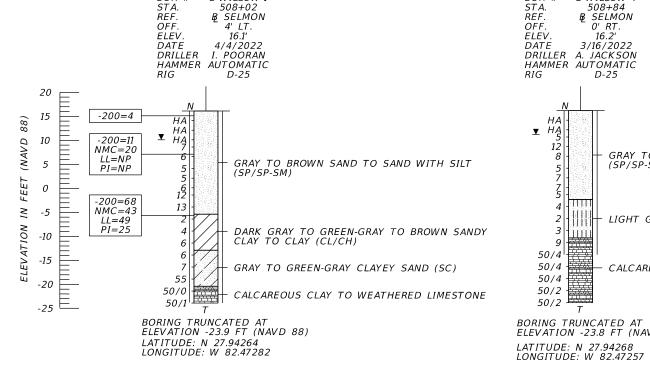
₽ SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

LEGEND

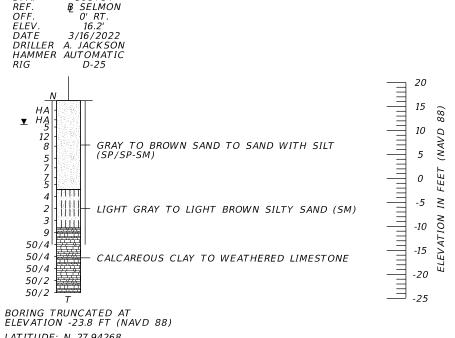
HA

BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR.

	SAFETY HAMMER	AUTOMATIC HAMMI
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24



DESCRIPTION



KEVIN H. SCOTT, P.E.	D
P.E. LICENSE NUMBER 65514	СН
TIERRA, INC.	DES
7351 TEMPLE TERRACE HIGHWAY	
TAMPA, FLORIDA 33637	СН

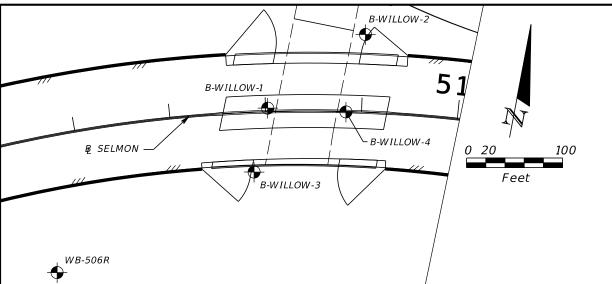
B-WILLOW-4

DRAWN BY: BJS	TAMPA HILLSBOROUGH									
CHECKED BY:	Ŀ	EXPRESSWAY AUTHORITY								
DESIGNED BY:	ROAD NO.	COUNTY	THEA PROJECT NO.	PROJECT						
BJS				1						
CHECKED BY:	SR 618	HILLSBOROUGH	HI-0012	1						

RETAINING WALLS (45) SOUTH SELMON EXPRESSWAY IMPROVEMENTS

REF. DWG. NO

SHEET NO.



BOR #

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B-WILLOW-2

509+01

B SELMON

81' LT.

GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)

- GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)

LIGHT GRAY TO LIGHT BROWN SILTY SAND (SM)

- CALCAREOUS CLAY TO WEATHERED LIMESTONE

DARK GRAY TO GREEN-GRAY TO BROWN SANDY

LIGHT GRAY TO LIGHT BROWN SILTY SAND (SM)

10 LIGHT GRAY TO LIGHT BROWN SILTY SANI 8 GRAY TO GREEN-GRAY CLAYEY SAND (SC)

WH

16

DARK GRAY TO GREEN-GRAY TO BRO
CLAY TO CLAY (CL/CH)

CALCAREOUS CLAY TO WEATHERED

T LIMESTONE

15.1'

DATE 3/17/2022 DRILLER A. JACKSON HAMMER AUTOMATIC D-25

HA

47

BORING TRUNCATED AT ELEVATION -24.9 FT (NAVD 88)

LATITUDE: N 27.94290 LONGITUDE: W 82.47255

44 -

WEATHERED LIMESTONE TO CALCAREOUS CLAY ORGANIC SILTY SAND TO SANDY SILT (Pt) SANDY SILT TO SILT (ML/MH) ASPHALT PAVEMENT AND LIMEROCK BASE MATERIAL BORING LOCATION PLAN

SILTY SAND (SM)

CLAYEY SAND (SC)

 $\Pi\Pi$

SAND TO SAND WITH SILT (SP/SP-SM) UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW
AND LABORATORY TESTING ON SELECTED SAMPLES
FOR CONFIRMATION OF VISUAL REVIEW. NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED). SANDY CLAY TO CLAY (CL/CH) NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION HAND AUGERED TO VERIFY UTILITY CLEARANCE WH SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT WR

LEGEND

PERCENT PASSING #200 SIEVE NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) -200 NMC LL PI PLASTICITY INDEX (%) ORGANIC CONTENT (%) NON-PLASTIC

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION

GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID.

BORING TRUNCATED. REFER TO BRIDGE REPORT OF CORE BORINGS FOR FULL DEPTH

SHELBY TUBE SAMPLE

LOSS OF CIRCULATION OF DRILLING FLUID (%)

CASING

₽ SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

		REVI	SION	S		KEVIN H. SCOTT, P.E.	DRAWN BY:		TAMPA HILLSB		SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	BJS CHECKED BY:]	EXPRESSWAY AU	THORITY		RETAINING WALLS (46)	
						TIERRA, INC.	DN	ROAD NO.	COUNTY	THEA PROJECT NO.	DDG (FOT NUME		
						7351 TEMPLE TERRACE HIGHWAY	DESIGNED BY: BJS				PROJECT NAME:	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.
						TAMPA, FLORIDA 33637	CHECKED BY:	SR 618	HILLSBOROUGH	HI-0012		FROM HIMES AVENUE TO WHITING STREET	

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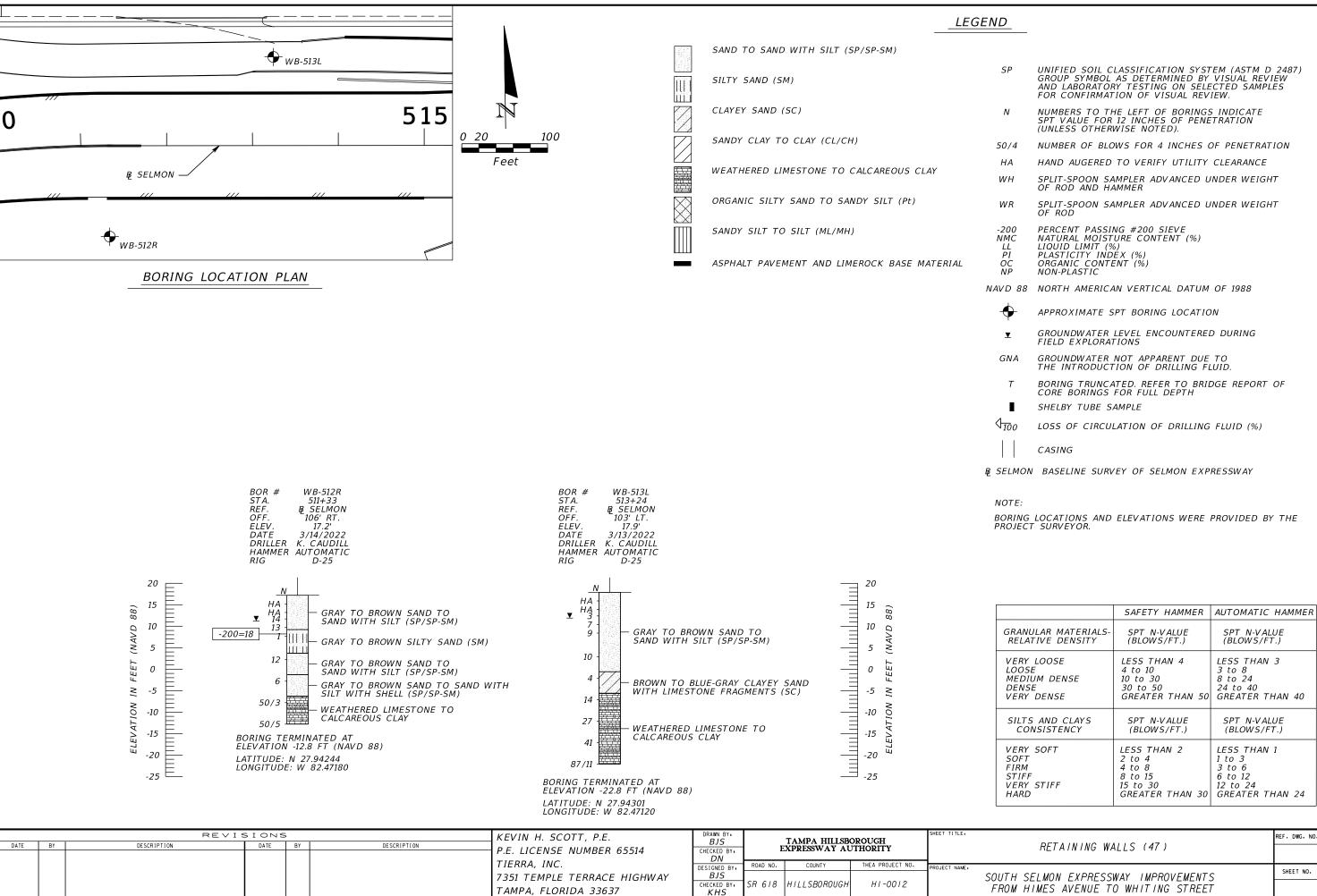
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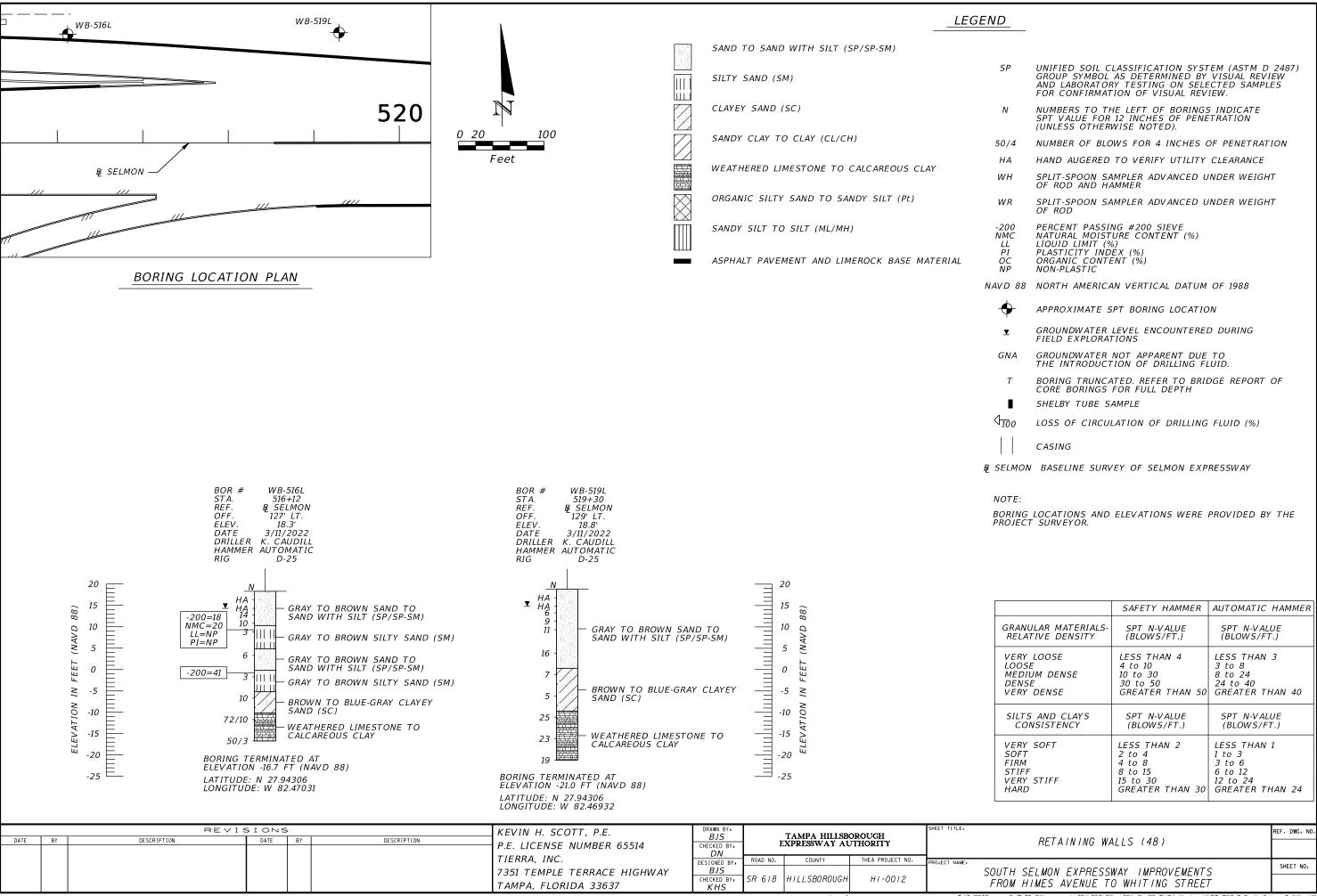
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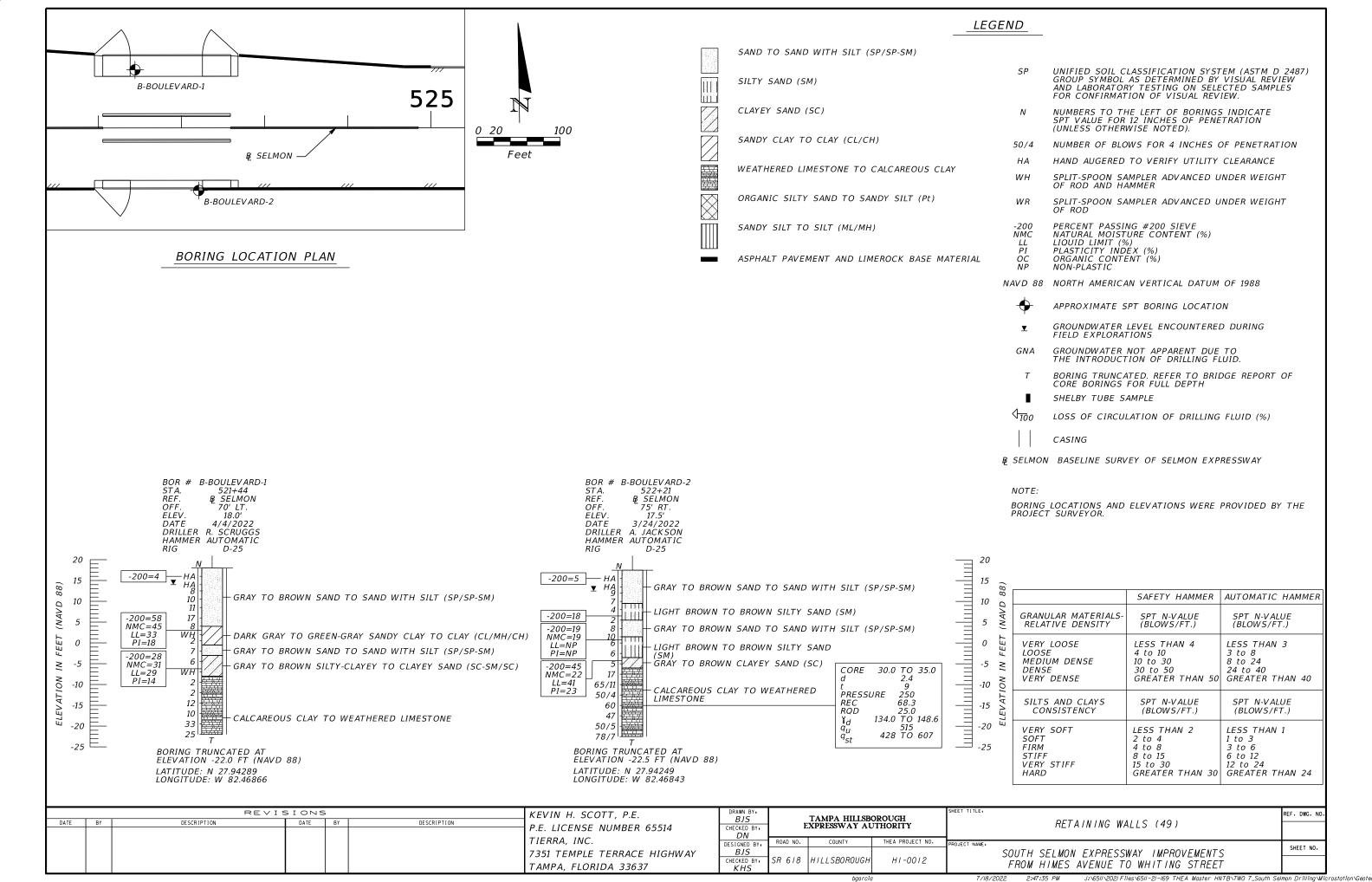
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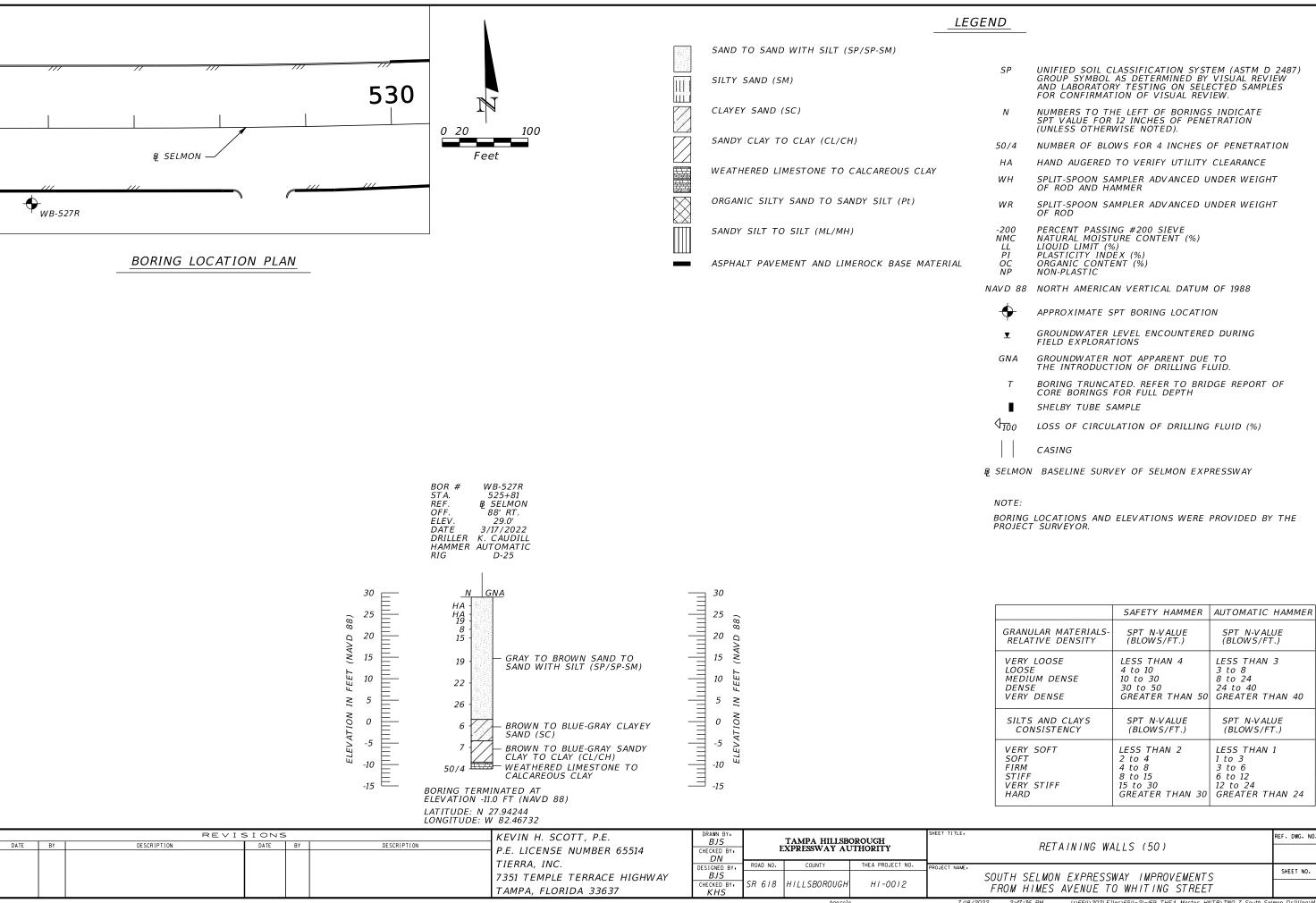
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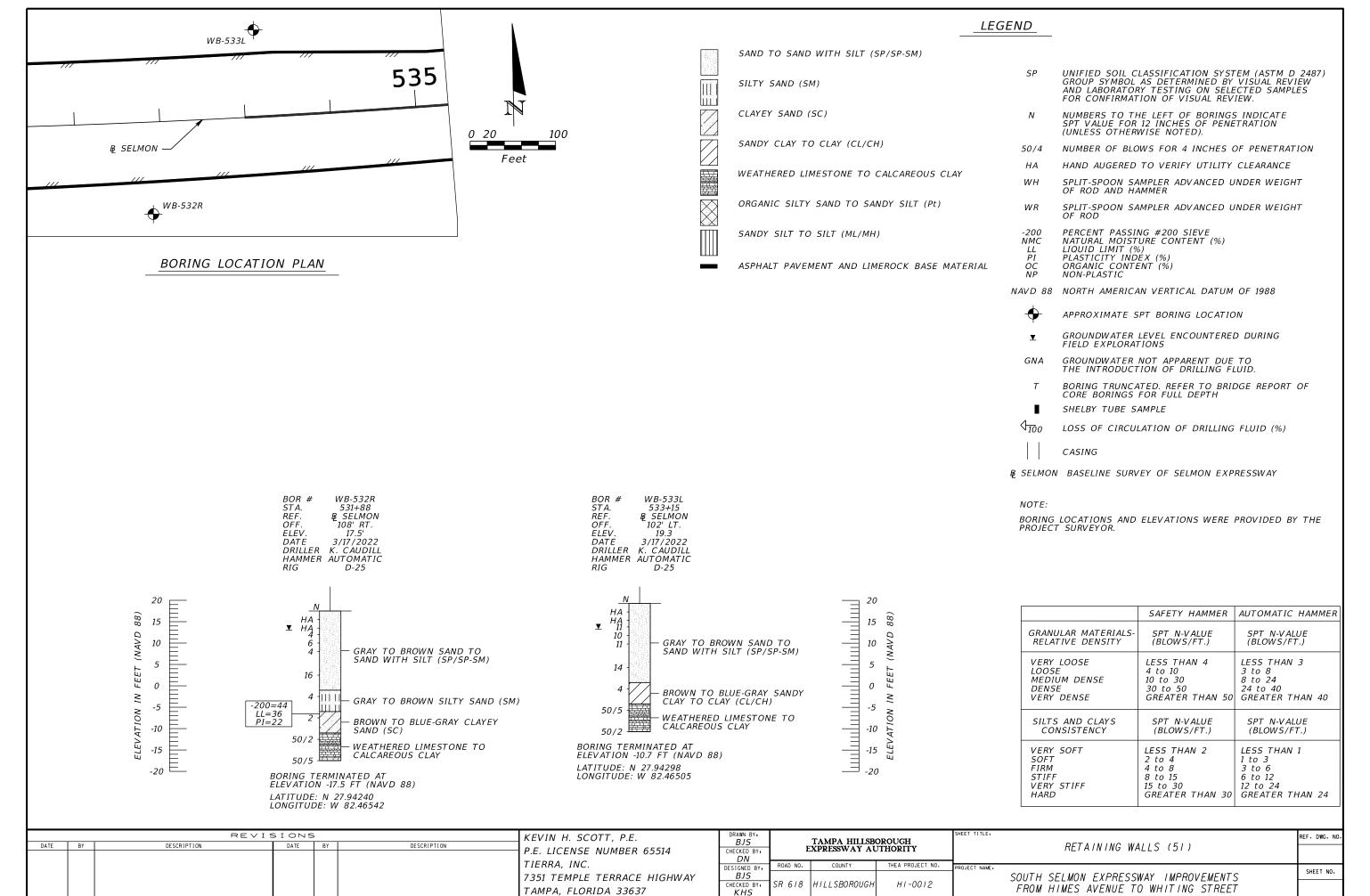


FROM HIMES AVENUE TO WHITING STREET

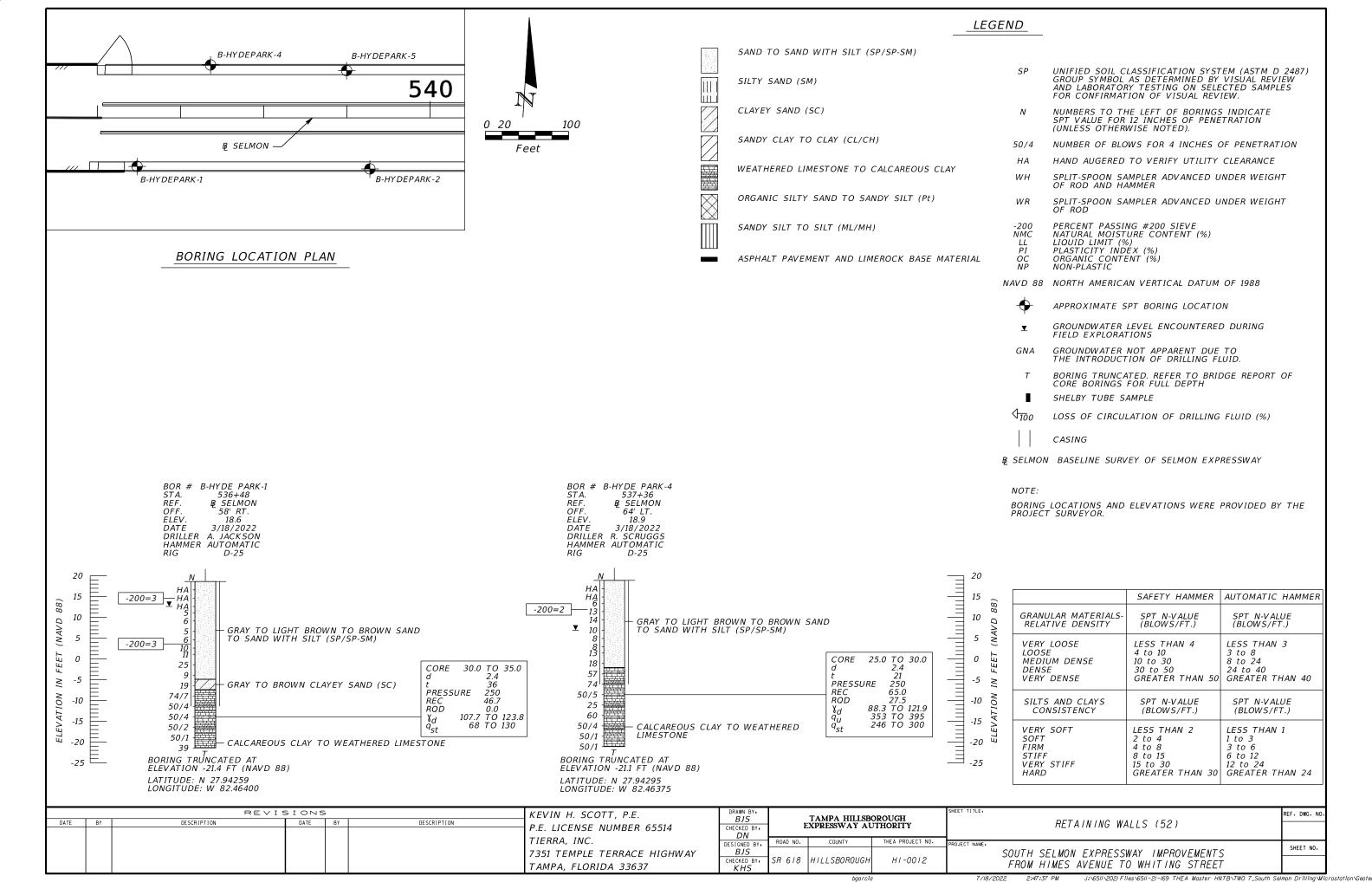


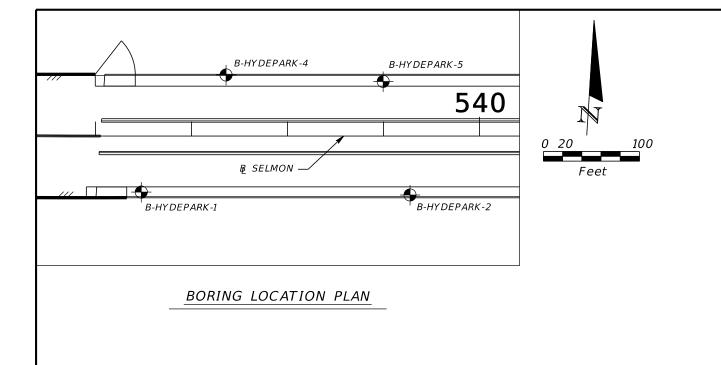


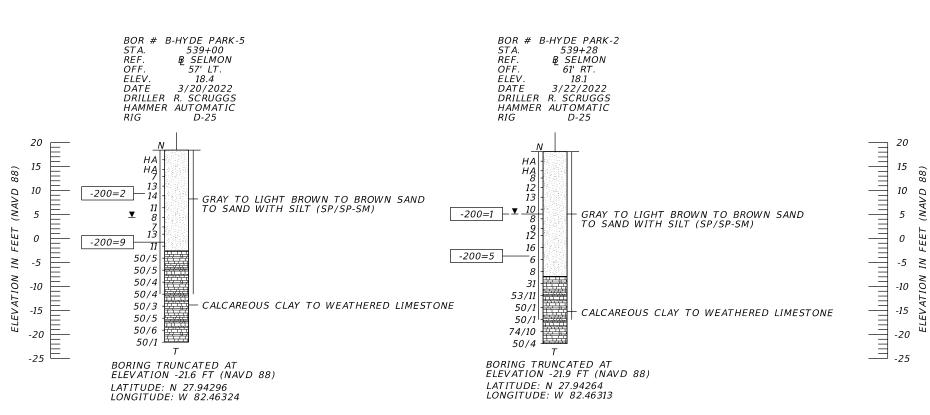




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LEGEND

SAND TO SAND WITH SILT (SP/SP-SM)

WEATHERED LIMESTONE TO CALCAREOUS CLAY

ASPHALT PAVEMENT AND LIMEROCK BASE MATERIAL

ORGANIC SILTY SAND TO SANDY SILT (Pt)

SILTY SAND (SM)

CLAYEY SAND (SC)

SANDY CLAY TO CLAY (CL/CH)

SANDY SILT TO SILT (ML/MH)

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW
AND LABORATORY TESTING ON SELECTED SAMPLES
FOR CONFIRMATION OF VISUAL REVIEW.

> NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

HAHAND AUGERED TO VERIFY UTILITY CLEARANCE WHSPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT

OF ROD AND HAMMER SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT WR

PERCENT PASSING #200 SIEVE NATURAL MOISTURE CONTENT (%) LIQUID LIMIT (%) -200 NMC

LL PI PLASTICITY INDEX (%) ORGANIC CONTENT (%) NON-PLASTIC

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION

GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

GROUNDWATER NOT APPARENT DUE TO GNATHE INTRODUCTION OF DRILLING FLUID.

BORING TRUNCATED. REFER TO BRIDGE REPORT OF CORE BORINGS FOR FULL DEPTH

SHELBY TUBE SAMPLE

LOSS OF CIRCULATION OF DRILLING FLUID (%)

CASING

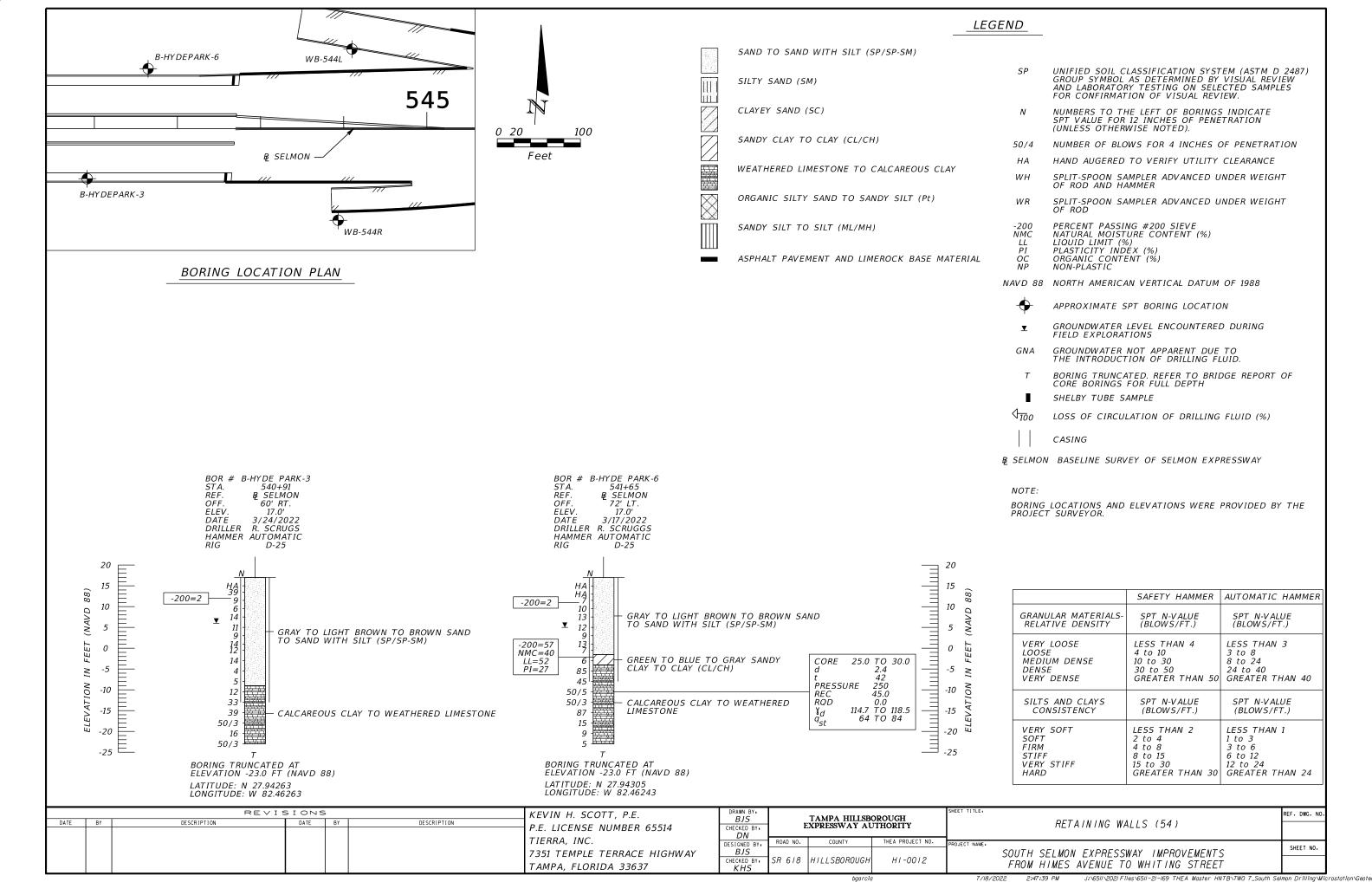
₽ SELMON BASELINE SURVEY OF SELMON EXPRESSWAY

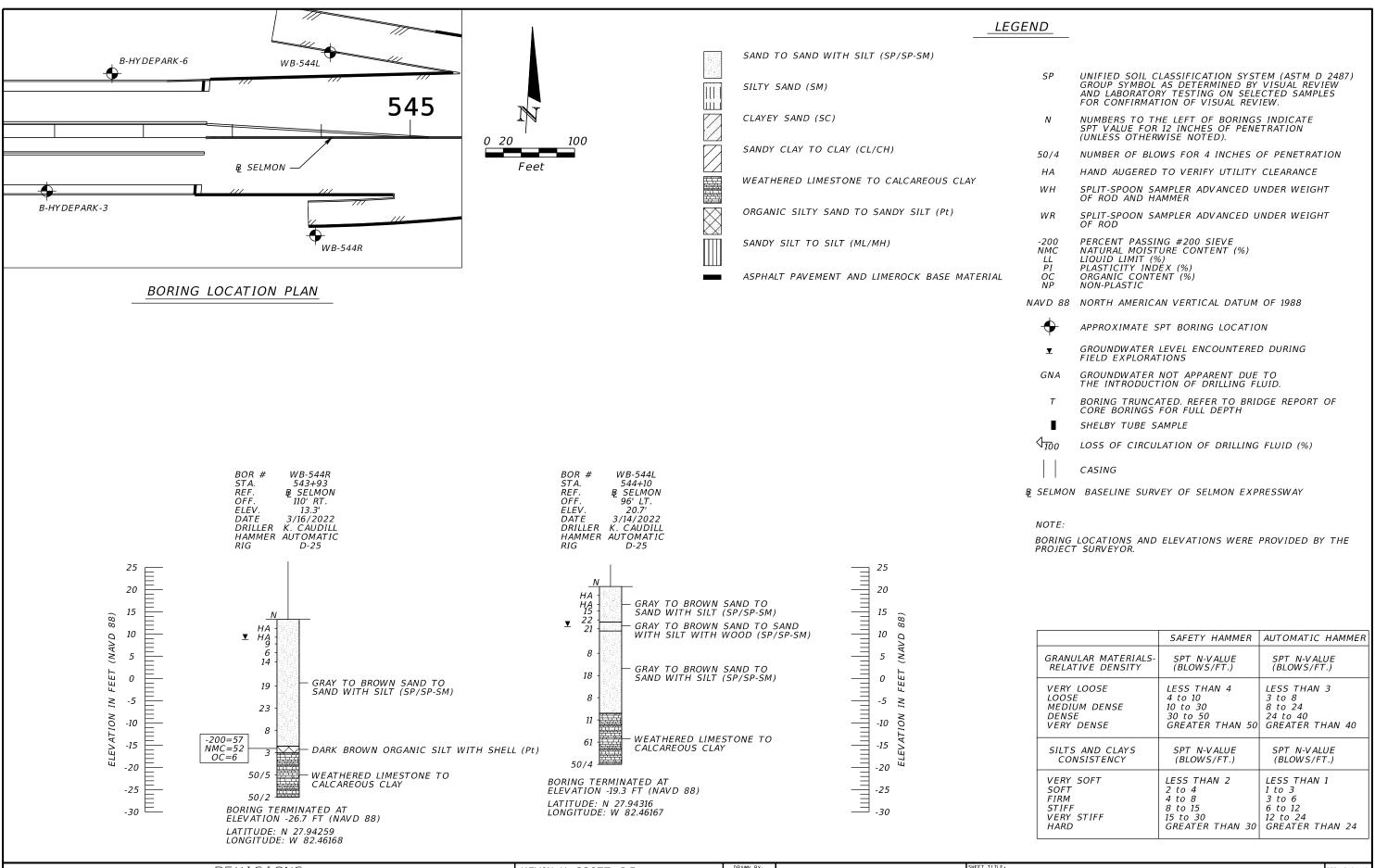
(NAVD

BORING LOCATIONS AND ELEVATIONS WERE PROVIDED BY THE PROJECT SURVEYOR

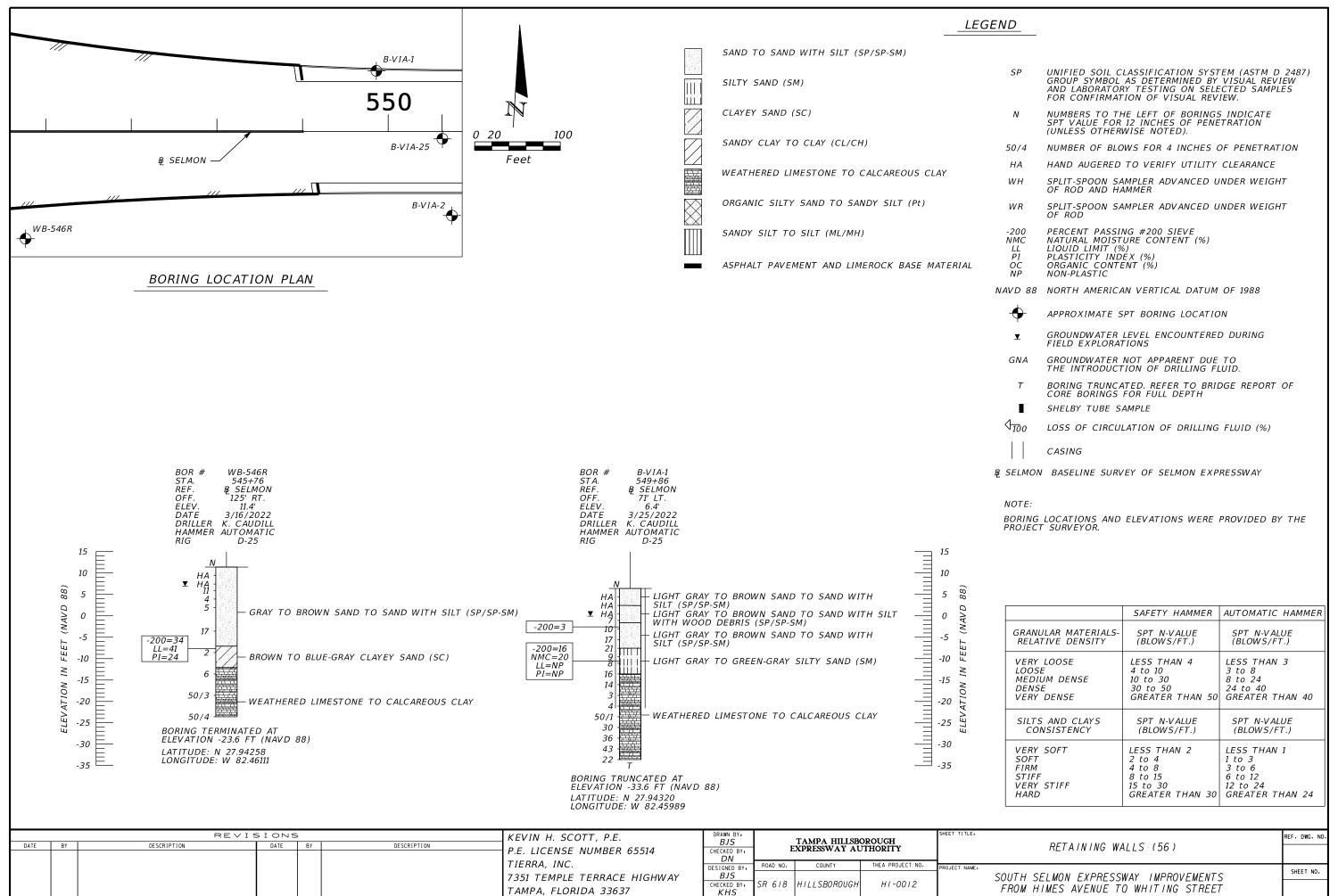
	SAFETY HAMMER	AUTOMATIC HAMMER		
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE		
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)		
VERY LOOSE	LESS THAN 4	LESS THAN 3		
LOOSE	4 to 10	3 to 8		
MEDIUM DENSE	10 to 30	8 to 24		
DENSE	30 to 50	24 to 40		
VERY DENSE	GREATER THAN 50	GREATER THAN 40		
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE		
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)		
VERY SOFT	LESS THAN 2	LESS THAN 1		
SOFT	2 to 4	1 to 3		
FIRM	4 to 8	3 to 6		
STIFF	8 to 15	6 to 12		
VERY STIFF	15 to 30	12 to 24		
HARD	GREATER THAN 30	GREATER THAN 24		

	REVIS	SIONS		KEVIN H. SCOTT, P.E.	DRAWN BY:		TAMPA HILLSB	OBOLICH	SHEET TITLE:		REF. DWG. NO	.0.
DATE BY	DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 65514	BJS CHECKED BY: DN	-	EXPRESSWAY A			RETAINING WALLS (53)		1
				TIERRA, INC.		ROAD NO.	COUNTY	THEA PROJECT NO.	PROJECT NAME:		-	4
				7351 TEMPLE TERRACE HIGHWAY	DESIGNED BY: BJS	00.010			THOUSE THANKS	SOUTH SELMON EXPRESSWAY IMPROVEMENTS	SHEET NO.	4
				TAMPA, FLORIDA 33637	CHECKED BY:	SR 618	HILLSBOROUGH	HI-0012		FROM HIMES AVENUE TO WHITING STREET		1



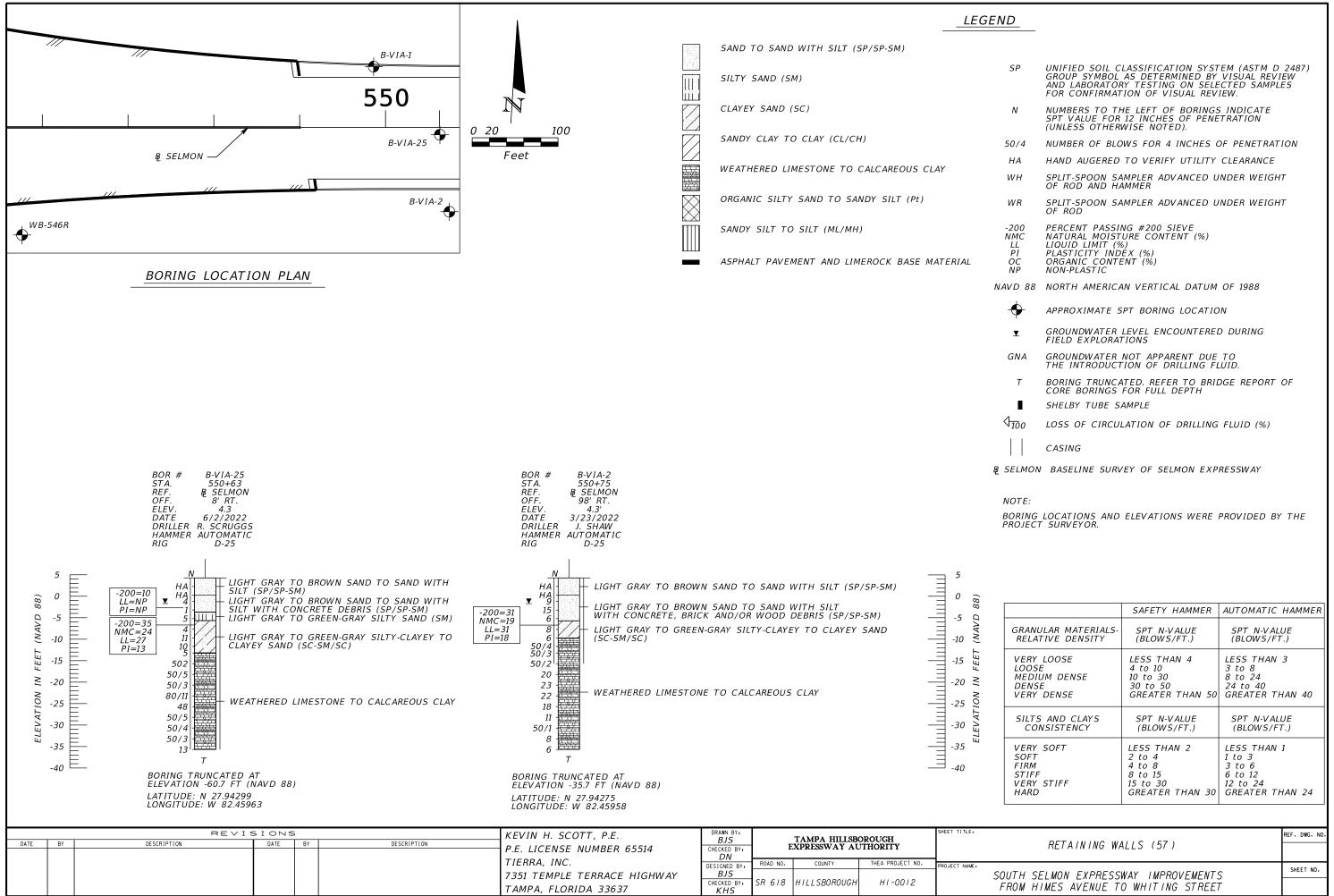


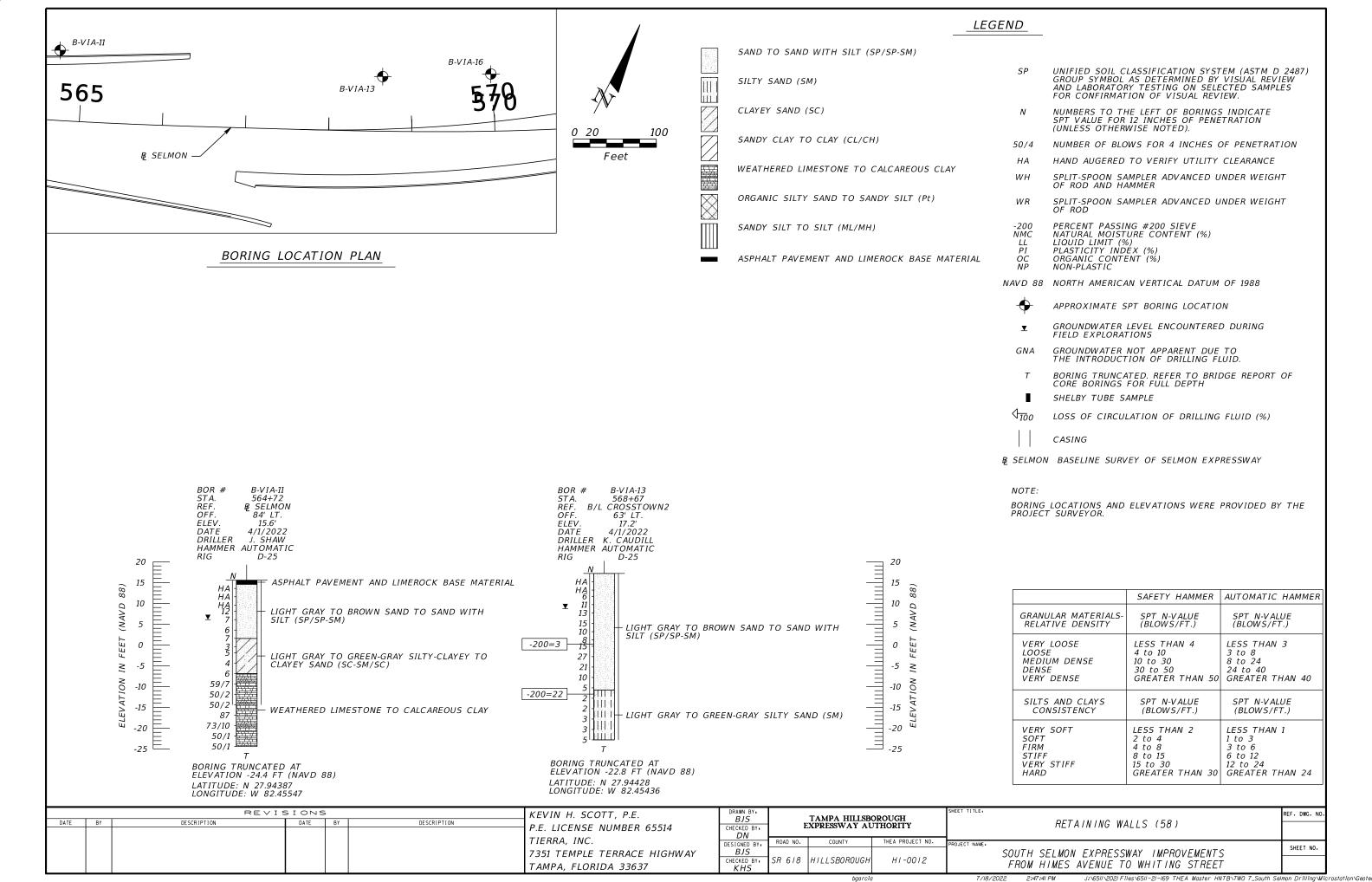
DATE	BY DESCRIPTION	DATE BY	DESCRIPTION	KEVIN H. SCOTT, P.E. P.E. LICENSE NUMBER 65514	BJS CHECKED BY:	TAMPA HILLSB EXPRESSWAY AU		RETAINING WALLS (55)	REF. DWG. NO.
				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	DIV DESIGNED BY: BJS CHECKED BY: KHS	ROAD NO. COUNTY SR 618 HILLSBOROUGH	THEA PROJECT NO. HI-0012	PROJECT NAME. SOUTH SELMON EXPRESSWAY IMPROVEMENTS FROM HIMES AVENUE TO WHITING STREET	SHEET NO.

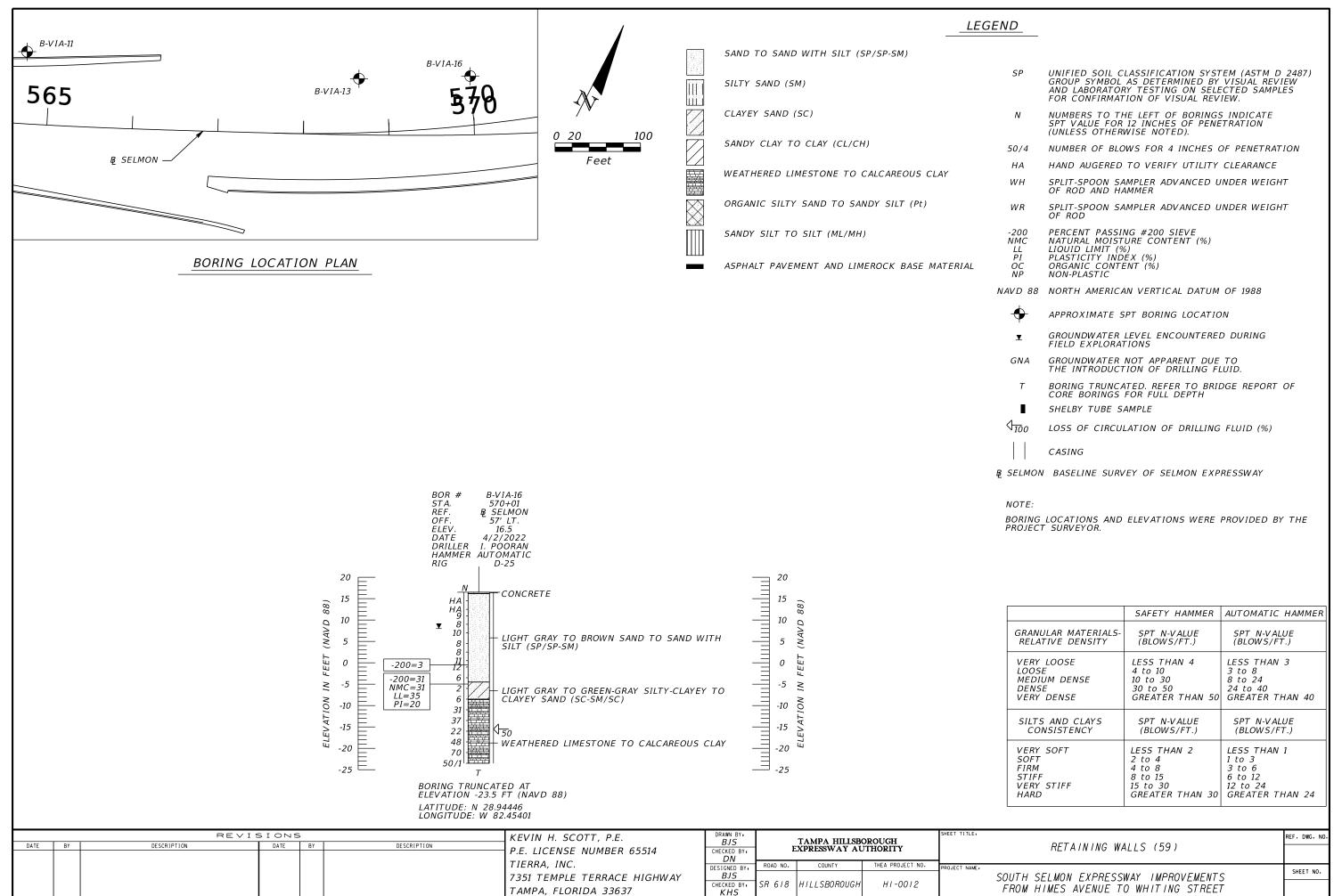


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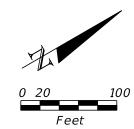


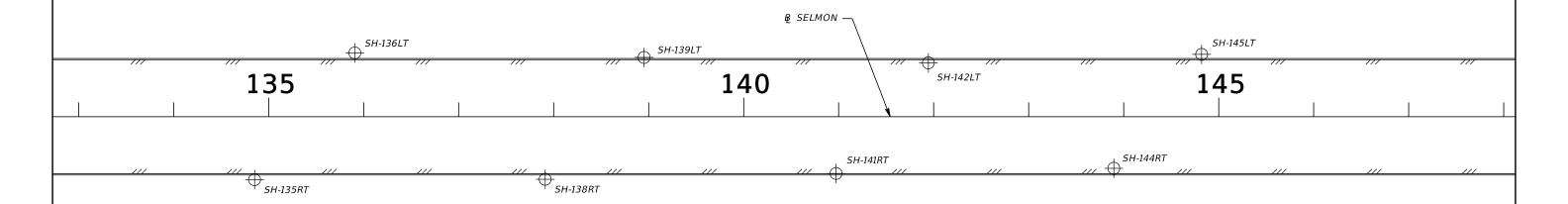




APPENDIX O

Roadway Soil Profiles





LEGEND

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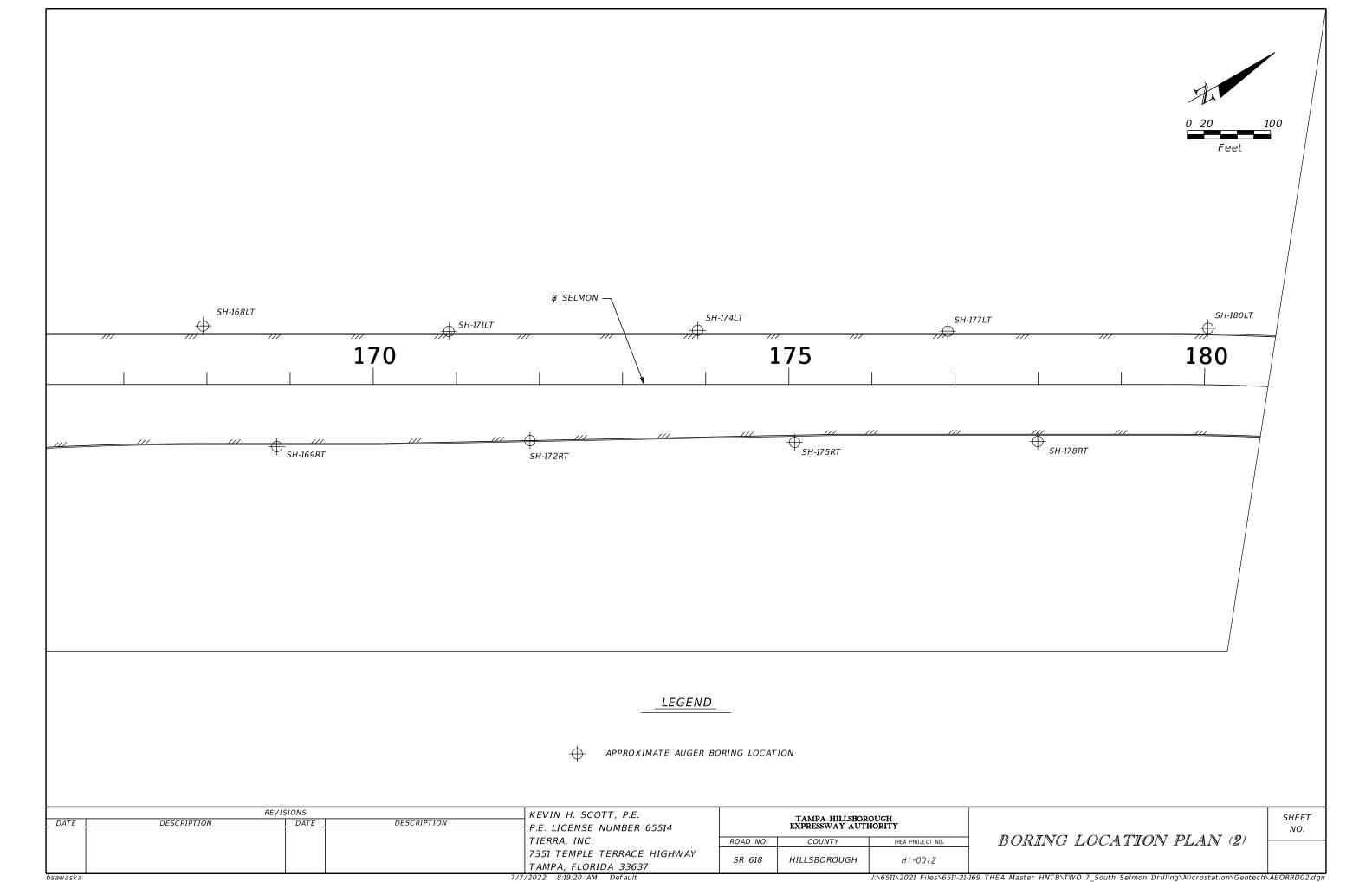
APPROXIMATE AUGER BORING LOCATION

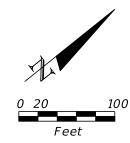
	REV	ISIONS		KEVIN H. SCOTT, P.E.		TANDA WWW.		
DATE	DESCRIPTION	DESCRIPTION DATE DESCRIPTION		P.E. LICENSE NUMBER 65514	TAMPA HILLSBOROUGH EXPRESSWAY AUTHORITY			
	TIERRA, INC.		TIERRA, INC.	ROAD NO.	COUNTY	THEA PROJECT NO.		
				7351 TEMPLE TERRACE HIGHWAY	SR 618	HILLSBOROUGH	HI-0012	
		TAMPA FLORIDA 33637		TAMPA FLORIDA 33637	3h 010	IIILLSBURUUGH	1 71-0012	

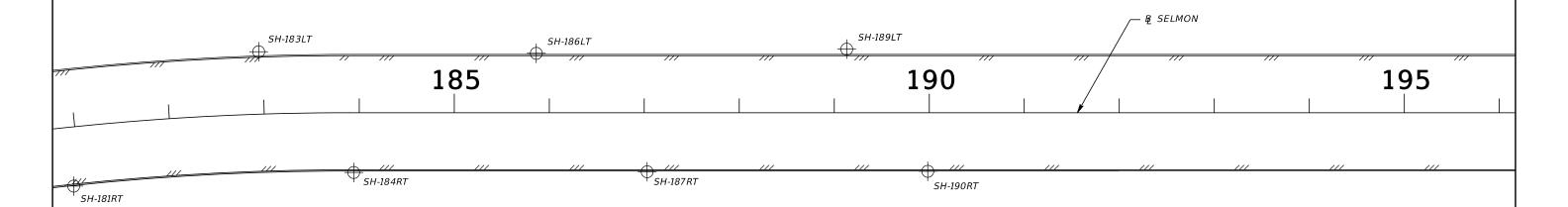
	TAMPA HILLSBOR EXPRESSWAY AUTI	
NO.	COUNTY	THEA PROJECT NO.
-10	UIU CDODOUCU	

BORING LOCATION PLAN (1)

SHEET NO.







_LEGEND

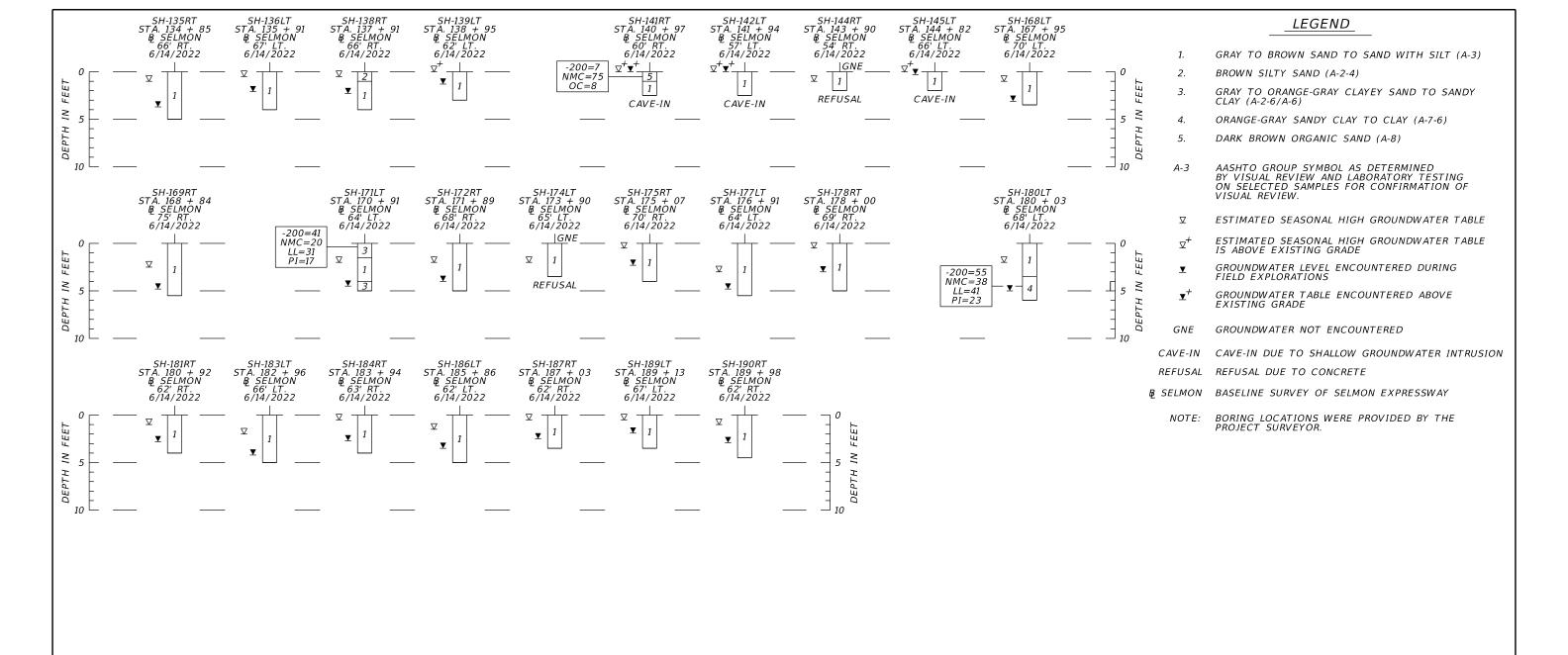
APPROXIMATE AUGER BORING LOCATION

	REVI	SIONS	KEVIN H. SCOTT, P.E.		TAMPA HILLSE	
DATE	DATE DESCRIPTION DATE DESCRIPTION		DESCRIPTION	P.E. LICENSE NUMBER 65514		EXPRESSWAY A
				TIERRA, INC.	ROAD NO.	COUNTY
			7351 TEMPLE TERRACE HIGHWAY	SR 618	HILLSBOROUGH	
				TAMPA, FLORIDA 33637	3K 010	HILLSBURUUGH
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	TAMPA HILLSBOR EXPRESSWAY AUTI	
ROAD NO.	COUNTY	THEA PROJECT NO.
CD 610	HILLEROBOUCH	111 0010

BORING LOCATION PLAN (3)

SHEET NO.



	REVIS	KEVIN H. SCOTT, P.E.		
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. LICENSE NUMBER 65514
				TIERRA, INC.
				7351 TEMPLE TERRACE HIGHWAY
				TAMPA, FLORIDA 33637

	TAMPA HILLSBOR EXPRESSWAY AUTI	
ROAD NO.	COUNTY	THEA PROJECT NO.
SR 618	HILLSBOROUGH	HI-0012

ROADWAY SOIL PROFILES

SHEET NO.

APPENDIX P

Summary of Roadway Seasonal High Groundwater Table Estimates

Summary of Roadway Seasonal High Groundwater Table Estimates South Selmon Expressway Improvements from Himes Avenue to Whiting Street Hillsborough County, Florida THEA Project No. HI-0012

Tierra Project No. 6511-21-169-007

	Boring Location ⁽¹⁾				ocation ⁽¹⁾ Survey		Boring	Measured			USI	DA Soil Survey	Estimated	
Boring	FL State Plane West B/L Se				Ground	Ground Depth ⁽²⁾		Groundwater Table			Estimated	ļ	SHGWT ⁽⁴⁾	
Name	Northing	Easting	Station	Of	fset	Elevation ⁽¹⁾	(feet)	Date	Depth ⁽²⁾	Elevation	Map Symbol	SHGWT ⁽³⁾ Depth	Depth	Elevation
	Horamig	Lasting	(feet)	(fe	eet)	(feet, NAVD 88)	` ,	Recorded	(feet)	(feet, NAVD 88)	- J	(feet)	(feet)	(feet, NAVD 88)
							3/L SELMC	N 136+00 TC	145+00 (LE	FT)				
SH-136LT	1301820	495773	135 + 91	67'	LT	14.5	4.0	6/14/2022	2.1	12.4	34	0.5-1.5	0.5	14.0
SH-139LT	1302082	495929	138 + 95	62'	LT	14.8	3.0	6/14/2022	1.3	13.5	34	0.5-1.5	ABG ⁽⁶⁾	>14.8
SH-142LT	1302338	496083	141 + 94	57'	LT	16.4	2.5	6/14/2022	ABG ⁽⁶⁾	>16.4	34	0.5-1.5	ABG ⁽⁶⁾	>16.4
SH-145LT	1302592	496219	144 + 82	66'	LT	14.8	2.0	6/14/2022	0.3	14.6	32/34	0.5-1.5	ABG ⁽⁶⁾	>14.8
						В	L SELMO	N 136+00 TO	145+00 (RIC	SHT)				
SH-135RT	1301662	495835	134 + 85	66'	RT	15.3	5.0	6/14/2022	3.7	11.6	34	0.5-1.5	1.0	14.3
SH-138RT	1301928	495988	137 + 91	66'	RT	15.6	4.0	6/14/2022	2.3	13.3	34	0.5-1.5	0.5	15.1
SH-141RT	1302196	496135	140 + 97	60'	RT	16.1	2.5	6/14/2022	ABG ⁽⁶⁾	>16.1	34	0.5-1.5	ABG ⁽⁶⁾	16.1
SH-144RT	1302452	496277	143 + 90	54'	RT	17.0	2.0	6/14/2022	GNE ⁽⁵⁾	<15.0	34	0.5-1.5	1.0	16.0
						E	3/L SELMC	N 168+00 TC	190+00 (LE	FT)				
SH-168LT	1304598	497371	167 + 95	70'	LT	13.0	3.5	6/14/2022	3.1	9.9	32	0.5-1.5	1.0	12.0
SH-171LT	1304851	497524	170 + 91	64'	LT	13.0	5.0	6/14/2022	4.5	8.5	32	0.5-1.5	2.0	11.0
SH-174LT	1305111	497672	173 + 90	65'	LT	12.9	3.5	6/14/2022	GNE ⁽⁵⁾	<9.4	32	0.5-1.5	2.0	10.9
SH-177LT	1305371	497824	176 + 91	64'	LT	13.8	5.5	6/14/2022	4.8	9.0	32	0.5-1.5	3.0	10.8
SH-180LT	1305644	497977	180 + 03	68'	LT	14.7	6.0	6/14/2022	5.0	9.7	32	0.5-1.5	2.0	12.7
SH-183LT	1305892	498146	182 + 96	66'	LT	15.7	5.0	6/14/2022	4.2	11.5	32	0.5-1.5	2.0	13.7
SH-186LT	1306119	498330	185 + 86	62'	LT	15.3	5.0	6/14/2022	3.5	11.8	32	0.5-1.5	1.5	13.8
SH-189LT	1306376	498531	189 + 13	67'	LT	15.4	3.5	6/14/2022	1.9	13.5	32	0.5-1.5	0.5	14.9
						В	L SELMO	N 168+00 TO	190+00 (RIG	SHT)				
SH-169RT	1304603	497541	168 + 84	75'	RT	13.8	5.5	6/14/2022	4.8	9.0	32	0.5-1.5	2.5	11.3
SH-172RT	1304870	497686	171 + 89	68'	RT	13.3	5.0	6/14/2022	4.0	9.3	32	0.5-1.5	2.0	11.3
SH-175RT	1305145	497847	175 + 07	70'	RT	9.5	4.0	6/14/2022	2.3	7.2	32	0.5-1.5	0.5	9.0
SH-178RT	1305399	497992	178 + 00	69'	RT	12.1	5.0	6/14/2022	3.0	9.1	32	0.5-1.5	0.5	11.6
SH-181RT	1305651	498134	180 + 92	62'	RT	13.8	4.0	6/14/2022	2.8	11.0	32	0.5-1.5	1.0	12.8
SH-184RT	1305890	498308	183 + 94	63'	RT	14.7	4.0	6/14/2022	2.7	12.0	32	0.5-1.5	0.5	14.2
SH-187RT	1306132	498500	187 + 03	62'	RT	15.8	3.5	6/14/2022	2.5	13.3	32	0.5-1.5	0.5	15.3
SH-190RT	1306363	498684	189 + 98	62'	RT	17.4	4.5	6/14/2022	2.9	14.5	32	0.5-1.5	1.0	16.4
(1) D			مطفيدها اممامانيده	D								·		

Boring locations and elevation were provided by the Project Surveyor.

²⁾ Depth below existing grades at time of augering.

³⁾ Seasonal high groundwater table depth estimated based on the Hillsborough County, Florida USDA Soil Survey information.

¹⁾ Seasonal high groundwater table depth estimated based on soil stratigraphy, measured groundwater levels from the borings, the Hillsborough County, Florida USDA Soil Survey information and past experience with similar soil conditions.

⁵⁾ GNE: Groundwater Not Encountered

ABG: Measured groundwater table or estimated seasonal high groundwater table is above existing grade.

APPENDIX Q

Summary of Laboratory Testing Results for Environmental Classification

Summary of Laboratory Rock Core Strength Testing

Boring Number	Depth (feet)	pH (FM 5-550)	Resistivity (ohm-cm) (FM 5-551)	Chlorides (ppm) (FM 5-552)	Sulfates (ppm) (FM 5-553)	Environmental Classification ⁽¹⁾						
			(FW 5-551)	(I-IVI 3-332)	(I-IVI 3-333)	Steel	Concrete					
SR 618 EB/WB over Himes Ave - Bridge Nos 100308 & 100309												
B-HIMES-2	0.0 - 4.0	7.6	5,000	<5	<5	Moderately Aggressive	Slightly Aggressive					
B-HIMES-3	0.0 - 4.0	7.9	8,800	<5	<5	Slightly Aggressive	Slightly Aggressive					
		SR 618 E	B/WB over E	uclid Ave - Br	idge Nos 100	310 & 100311						
B-EUCLID-1	0.0 - 4.0	7.5	12,000	15	<5	Slightly Aggressive	Slightly Aggressive					
B-EUCLID-3	0.0 - 4.0	7.7	24,000	15	<5	Slightly Aggressive	Slightly Aggressive					
	SR 618 EB/WB over El Prado Blvd - Bridge Nos 100312 & 100313											
B-EL PRADO-1	0.0 - 4.0	6.3	3,000	45	<5	Moderately Aggressive	Moderately Aggressive					
B-EL PRADO-2	0.0 - 4.0	7.6	4,300	15	63	Moderately Aggressive	Slightly Aggressive					
•	SR 6	18 EB/WB ov		e/Bay to Bay	Blvd - Bridge	Nos 100314 & 100315	<u> </u>					
B-MAC-1	0.0 - 4.0	8.2	20,000	15	<5	Slightly Aggressive	Slightly Aggressive					
B-MAC-4	0.0 - 4.0	8.6	23,000	15	<5	Slightly Aggressive	Slightly Aggressive					
						100316 & 100317	engy rigg.eee.re					
B-MISS-1	0.0 - 2.0	7.7	28,000	15	<5	Slightly Aggressive	Slightly Aggressive					
B-MISS-1	2.0 - 4.0	7.7	23,000	30	<5	Slightly Aggressive	Slightly Aggressive					
B-MISS-2	0.0 - 2.0	7.2	6,800	30	<5	Slightly Aggressive	Slightly Aggressive					
B-MISS-2	2.0 - 4.0	7.6	9,200	15	<5	Slightly Aggressive	Slightly Aggressive					
D-W100-2						Nos 100318 & 100319	Slightly Aggressive					
B-WATROUS-1	0.0 - 2.0	7.2	14,000	15	27	Slightly Aggressive	Slightly Aggressive					
B-WATROUS-2	0.0 - 2.0	7.5	14,000	30	<5	Slightly Aggressive	Slightly Aggressive					
D-WATK003-2	0.0 - 2.0					00320 & 100321	Slightly Aggressive					
B-MORRISON-1	0.0 - 2.0	6.9			<5		Cliabthy Agaropaiya					
			14,000	30		Moderately Aggressive	Slightly Aggressive					
B-MORRISON-1	2.0 - 4.0	8.1	10,000	15	<5	Slightly Aggressive	Slightly Aggressive					
B-MORRISON-2	0.0 - 2.0	8.2	11,000	15	<5	Slightly Aggressive	Slightly Aggressive					
B-MORRISON-2	2.0 - 4.0	8.1	14,000	15	12	Slightly Aggressive	Slightly Aggressive					
D CIA/ANINI 4	0000					0322 & 100323	01: 1 (1 A					
B-SWANN-1	2.0 - 6.0	7.1	28,000	45	<5	Slightly Aggressive	Slightly Aggressive					
B-SWANN-2	2.0 - 6.0	6.8	4,800	90	171	Moderately Aggressive	Slightly Aggressive					
DI ATT /		•				324 & 100325						
PLATT-1	0.0 - 4.0	8.1	18,000	15	36	Slightly Aggressive	Slightly Aggressive					
PLATT-2	0.0 - 4.0	8.8	18,000	15	45	Slightly Aggressive	Slightly Aggressive					
						326 & 100327						
B-WILLOW-2	0.0 - 4.0	7.0	7,100	15	<5	Moderately Aggressive	Slightly Aggressive					
						100328 & 100329						
B-BLVD-1	0.0 - 4.0	7.5	4,900	30		Moderately Aggressive	Slightly Aggressive					
B-BLVD-2	0.0 - 4.0	8.0	4,700	15	<5	Moderately Aggressive	Slightly Aggressive					
						Nos 100330 & 100331						
B-HYDE PARK-1	2.0 - 6.0	6.9	20,000	30	<5	Moderately Aggressive	Slightly Aggressive					
B-HYDE PARK-4	6.0 - 8.0	6.8	21,000	15	<5	Moderately Aggressive	Slightly Aggressive					
B-HYDE PARK-6	4.0 - 8.0	6.8	3,900	90	15	Moderately Aggressive	Slightly Aggressive					
	SR 618 E	B/WB over Hil	Isborough Ri	ver/Downtow	n Viaduct - B	ridge Nos 100332 & 100	333					
B-VIA-7	2.0 - 6.0	8.2	27,000	15	<5	Slightly Aggressive	Slightly Aggressive					
B-VIA-17	2.0 - 6.0	6.7	8,700	30	<5	Moderately Aggressive	Slightly Aggressive					
	Hillsborough River - Water											
	Water	7.2	300	15000	3900	Extremely Aggressive	Extremely Aggressive					
	Water	7.7	300	20000	3700	Extremely Aggressive	Extremely Aggressive					
			1	ampa Bay - V	Vater							
	Water	7.5	260	20000	3700	Extremely Aggressive	Extremely Aggressive					
⁽¹⁾ As per FDOT S	tructures Desi	gn Guidelines										

Boring Name	Depth	REC	RQD	Tested Sample Letter	Dry Unit Weight, γ_d	Unconfined Compressive Strength, q _u	Splitting Tensile Strength, q _{st}
	(ft)	(%)	(%)		(pcf)	(psi)	(psi)
				С	117.9	1478	
	45 - 50	100.0	48.3	E		1739	
B-HIMES-3	40 00	(%) (%) (pcf) (psi) 100.0 48.3 E 105.4 1739 E 108.2 I 103.3 I 103.3 I 103.3 B 15.4 893 B 115.4 893 B 109.6 109.0 B 107.0 150.3 B 128.1 644 E 132.7 6 G 128.9 519 A 84.3 122 H 109.4 109.4 B 127.7 0 D 114.0 562		265			
D-I IIIVILO-3	Ll		L				332
	55 - 60	91 7	0.0				190
	33 - 00	31.7	0.0	С	109.0		364
						893	
	20 - 25	82.5	68.3				210
	20 - 23	02.5	91.7 0.0 C 109.0 B 115.4 B 109.6 D 120.9 E 107.0 A 150.3 B 128.1 E 132.7 G 128.9 A 84.3 G6.7 30.0 H 119.1 H 109.4 B 127.7 D 114.0 H 112.4 I 140.6	564			
B-EUCLID-1	Ll		L	E	107.0		162 597 66
D-LOOLID-1			Γ		150.3		597
	50 - 55	100.0	35.8		128.1	644	
	30 - 33	100.0	33.8	Е	132.7		66
				G	128.9	519	
	40 - 45	66.7	30.0		84.3		
						292	
							93
B-EUCLID-2	65 - 70	100.0	Γ	В	127.7		226
			12.2		114.0	562	
		100.0	+3.3	Н	112.4	167	
				I	140.6		532
	20 - 25		75.8	Α	136.3	1688	
		86.7		С	125.5		307
	20 - 23	00.7	75.0	F	116.1	869	
B-EUCLID-3	Ll		L 	G	143.8		636
D LOOLID O			 _	Α	116.1	943	
	50 - 55	85.0	76.7	Α	117.4		242
	30 - 33	03.0	70.7	D	126.3	883	
				D	131.2		303
				Α	149.4		353
	30 - 35	91.7	80.8	D	164.5	4372	
	30 - 33	31.7	00.0	G	119.6		73
B-EL PRADO-2	<u>[</u>		L		155.6	2758	
D-LLT NADO-2	[_ _	E	133.9	365	
	60 - 65	90.0	50.5	G	98.4		128
	00 - 00	50.0]	Н	121.0	1086	
				K	111.9		163

Boring Name	Depth (ft)	REC (%)	RQD (%)	Tested Sample Letter	Dry Unit Weight, γ _d (pcf)	Unconfined Compressive Strength, q _u (psi)	Splitting Tensile Strength, q _{st} (psi)
				В	128.2		318
	25 - 30	96.7	10.0	I	118.7		148
B-MAC-1			L		129.0	370	
D-IVIAC-1			Γ	D	146.7		796
	55 - 60	100.0	26.7	Н	130.8	5986	
				K	152.6		896
				D	128.5		421
	40 - 45	100.0	50.8	F	122.1	1538	
				G	117.4		300
B-MAC-3			 _	G	109.2	658	
		400.0		С	116.2		286
	55 - 60	100.0	7.5	D	114.2	700	154
	_			E	131.3	782	0.47
	40 45	00.0	40.0	D	113.2	1070	347
	40 - 45	80.0	18.3	F	152.3	1676	925
B-MAC-4				G	149.0 136.7		2460
D-IVIAC-4		100.0	40.0	B C	136.7	628	2460
	55 - 60			D	119.5	020	131
					123.3	1509	131
				В	119.0	1509	406
			53.3	В	137.7	3618	400
	30 - 35	58.3		С	122.8	3010	343
				E	119.3	753	0.10
B-MISS-1		†·		- 	119.6		222
			41.6	D	116.9	634	
	45 - 50	95.0		Н	119.3	001	251
				Н	123.2	553	
			_	D	116.3		196
5.4400	60 - 65	73.3	30.0	G	122.3	1212	606
B-MISS-3			36.1	A	121.1	1404	
	70 - 75	77.8		В	137.8		433
	44 40	70.0	50.0	В	127.1		233
D MICC 4	44 - 49	73.3	53.3	F	122.2	1592	
B-MISS-4	50 55	67.5	24.7	D -	136.2		390
	50 - 55	67.5	31.7	Н	142.1	1198	
				Α	117.1	472	
	45 - 50	83.3	36.7	D	128.5		264
B-MISS-5	<u> </u>		L		142.6		724
	60 - 65	71.7	21.7	С	122.9		232
	00 - 00	11.1	41.1	F	135.4		554
	60 - 63	88.9	26.4	D	147.0	1714	
B-MISS-6	00 - 03	00.9	20.4	G	134.7		761
D-101100-0	68 - 73	88.3	31.7	F	169.7		178
	00-73	00.3	31.7	Н	125.5	1189	

Boring Name	Depth (ft)	REC (%)	RQD (%)	Tested Sample Letter	Dry Unit Weight, γ _d (pcf)	Unconfined Compressive Strength, q _u (psi)	Splitting Tensile Strength, q _{st} (psi)
				Α	127.1	733	
	30 - 35	93.3	42.5	В	126.1		522
		00.0	12.0	D	120.5		203
B-WATROUS-2	 		L	E	112.2	392	
				Α	122.3		409
	55 - 60	100.0	28.3	В	140.6	1397	
				С	138.3	1362	
				D	99.1		55
	30 - 35	93.3	66.7	I	100.6		47
			 _	K	95.5	137	
B-MORRISON-2				В	134.8		457
	55 - 60	100.0	39.1	С	120.3	957	
				Е	141.9	539	
				E	144.8		364
	45 - 50			В	137.5		482
		28.3	9.2	С	124.7	869	
B-SWANN-1				<u> </u>	138.1	1127	
	60 - 65	49.2	21.7	Α	102.7	232	
				D	132.1		924
				E	137.3		197
	45-50	58.0	0.0	. <u> </u>	└ ─ ─		
	55 - 60	100.0	58.0	Α	124.9	568	
B-PLATT-1				F	137.8		395
				G	137.9	1214	
				l l	121.8		294
				A	128.1		387
D DI ATT 0	35 - 40	100.0	37.5	В	130.5	453	222
B-PLATT-3			L	E	125.8		302
	 -= <u>=</u> ===	+			128.3	512	
	50 - 53	33.0	0.0				
	45 - 50	76.7	6.7	D	131.4		597
D 14/11 1 014/ 0				F = E	135.3		555
B-WILLOW-2	05 70	400.0	45.0		169.2	1896	4400
	65 - 70	100.0	15.0	F	139.9		1102
				G	85.6		82
	35 - 40	85.0	0.0	A	134.5		739
D WILL 014/ 6	}		 _	<u>B</u>	134.5		301
B-WILLOW-3		05.5		A	111.6	361	
	45 - 50	83.3	45.0	С	92.1		97
				H	100.2		51
	00	05 -	0	С	136.7		428
	30 - 35	68.3	25.0	D	148.6		607
B-BLVD-2	 		 _	. <u> </u>	134.0	515	<u> </u>
	45 - 50	96.7	0.0	A	105.1		133
			3.3	В	114.7		65

Boring Name	Depth (ft)	REC (%)	RQD (%)	Tested Sample Letter	Dry Unit Weight, γ _d (pcf)	Unconfined Compressive Strength, q _u (psi)	Splitting Tensile Strength, q _{st} (psi)
	30 - 35	46.7	0.0	В	123.8		130
D LIVE DADICA			↓	D	107.7		68
B-HYDE PARK-1	55 00	400.0	N1/A	D	117.6		129
	55 - 60	100.0	N/A	<u> </u>	107.9		142
				J A	107.2 121.9	395	54
				D	114.6	393	246
	25 - 30	65.0	27.5	F	111.5		300
				H	88.3	353	300
B-HYDE PARK-4	 				107.4		520
	00 05	100.0	40.7	D	104.7	1454	0_0
	80 - 85	100.0	46.7	F	114.7	-	485
				G	125.6	348	
	25 20	45.0	0.0	Α	118.5		84
	25 - 30	45.0	0.0	D	114.7		64
			Γ	Α	142.5	1799	
		73.3	55.2	Α	141.4		820
B-HYDE PARK-6				В	157.6		1380
DITIBLITANCO	75 - 80			D	164.4	4503	
				D	149.5		1146
				Е	113.4	441	
				Е	119.8		159
				F	122.1	573	
	22.5 - 27.5			С	142.5	2011	593
		100.0	57.5	G	147.9	2244	054
				H	136.9	4004	351
B-HR-1	 +	 		<u>M</u> B	129.4 140.9	1281	227
				С	140.9	1026	221
	55 - 60	100.0	25.0	G	121.4	1020	167
				Н	107.7	454	107
	+			В	147.7	707	793
	05 55	0.5		В	153.9	5026	. 33
	25 - 30	95.0	80.8	Н	155.5	5041	
D UD 4				I	150.6		373
B-HR-4	rt			В	108.0		107
	40 - 45	95.0	75.8	D	111.9	959	
	40 - 40	90.0	10.0	<u> </u>	136.9		303
				J	107.9	788	
	40 - 45	100.0	70.8	В	150.6		957
B-HR-5	LL		/ 0.8	D	150.7	2508	
	50 - 55	68.3	0.0	С	120.2		278

Boring Name	Depth	REC	RQD	Tested Sample Letter	Dry Unit Weight, γ _d	Unconfined Compressive Strength, q _u	Splitting Tensile Strength, q _{st}
	(ft)	(%)	(%)	Letter	(pcf)	(psi)	(psi)
	30 - 35	90.0	27.5	С	146.0	2229	
B-HR-6	90 99		27.0	D	134.1		332
Billio	50 - 55	81.7	10.0	Α	105.6	514	
	00 00			В	112.2		112
	40 - 45	100.0	20.8	С	119.2		149
B-HR-7				<u>D</u>	131.9	1237	
	50 - 55	70.0	53.3	В	147.6	2207	
				E	140.4		390
				A	108.1		117
	30 - 35	48.3	32.5	С	152.1	1815	045
B-VIA-4			32.5	D	143.3	04.40	615
		21.7	15.0	<u>D</u>	150.9	2149	700
	40 - 45			C	153.6	F040	763
					156.9	5013	
	20 - 25	100.0	78.8	C	140.4 128.6	1006	479
B-VIA-5				G	111.4		261
D-VIA-3				J	123.5	906	201
	35 - 40	40.0	0.0	· <u></u>			
	00 10			Е	124.6	497	
				F	136.6	101	663
D) // A 40	47 - 52	100.0	23.3	ı	110.7		277
B-VIA-10				K	111.4	103	
	60 - 65	04.7		F	111.0		64
	60 - 65	81.7	0.0	I	109.7		41
				В	134.6	382	
	35 - 40	100.0	32.5	В	128.8		492
			L	F_	121.9		312
B-VIA-12				A	160.4		1216
	55 - 60	100.0	56.7	G	168.6	3026	
			30.7	Н	169.3	3435	
				Н	156.6		871
	35 - 40	100.0	10.8	В	111.0	515	L
B-VIA-14	45 - 50	65.8	23.3	В	102.3		68
	.0 00		20.0	G	155.5	5441	

Boring Name	Depth (ft)	REC (%)	RQD (%)	Tested Sample Letter	Dry Unit Weight, γ _d (pcf)	Unconfined Compressive Strength, q _u (psi)	Splitting Tensile Strength, q _{st} (psi)
				С	118.0		61
	35 - 40	80.0	25.8	Е	114.3	53	
	L			F	116.8		61
B-VIA-15				E	108.4	93	
	50 - 55	100	82.5	F	122.5		202
			02.0	<u> </u>	153.5	4178	
				I	154.5		1103
				Α	135.5		354
	60 - 65	100.0	51.3	D	137.5		221
5			(%)	F	141.1	1174	
B-VIA-19				- <u> </u> <u>-</u>	138.5	1026	
	70 - 75	40.0	04.0	В	134.3	760	4000
	70 - 75	43.3	24.2	В	157.4		1830
					112.2 140.9		63
	35-37.5	76.7	36.7	A B	126.3	678	637
	35-37.5	76.7		С		678	352
B-VIA-20		100.0	70.0	- 	136.9 133.9	1602	352
D-VIA-20				F	133.9	1692 2022	
	55 - 60			F	135.8	2022	629
				G	119.8		178
				E	90.2		75
	30 - 35	71.7	26.7	Н	95.9		117
B-VIA-21		41.7	19.2	- -	158.8		524
	40 - 45			C	137.3	233	324
				В	116.4	842	
				В	110.4	042	325
	50 - 55	81.7	81.7	С	126.9	599	323
				C	115.8	399	275
B-VIA-23			+	- <u>-</u>	143.6		612
				С	129.3	805	012
	60 - 65	91.7	40.4	Н	140.4	1207	
				I	129.8	1207	183
	35 - 40	21.7	0.0	A	121.5		260
	-====		<u>-</u>	- - - 	133.5		313
B-VIA-24				E	111.5	584	
	50 - 55	88.3	61.7	G	133.3	813	
				G	135.4		551
	45.50	00.0	00.0	С	157.5		389
	45 - 50	60.8	28.3	D	162.9	3207	
D \ // :				- A	145.8		271
B-VIA-25				A	147.1	3757	
	50 - 55	82.5	62.5	F	140.6	2. 0.	231
				G	135.7	782	

Boring Name	Depth (ft)	REC (%)	RQD (%)	Tested Sample Letter	Dry Unit Weight, γ _d (pcf)	Unconfined Compressive Strength, q _u (psi)	Splitting Tensile Strength, q _{st} (psi)
	45 - 50	33.3	30.0	Α	149.7		395
	45 - 50	33.3		A	149.3	1504	
B-VIA-26		44.2	28.3	В	155.6		882
	55 - 60			С	155.0	3295	
				Е	100.4		59
	30 - 35	85.0	45.0	С	106.0	304	
B-VIA-27		05.0		Н	110.6		101
	50 - 55	86.7	47.5	J	114.2	702	
	30 - 33	00.7	47.5	Н	120.4	1640	197

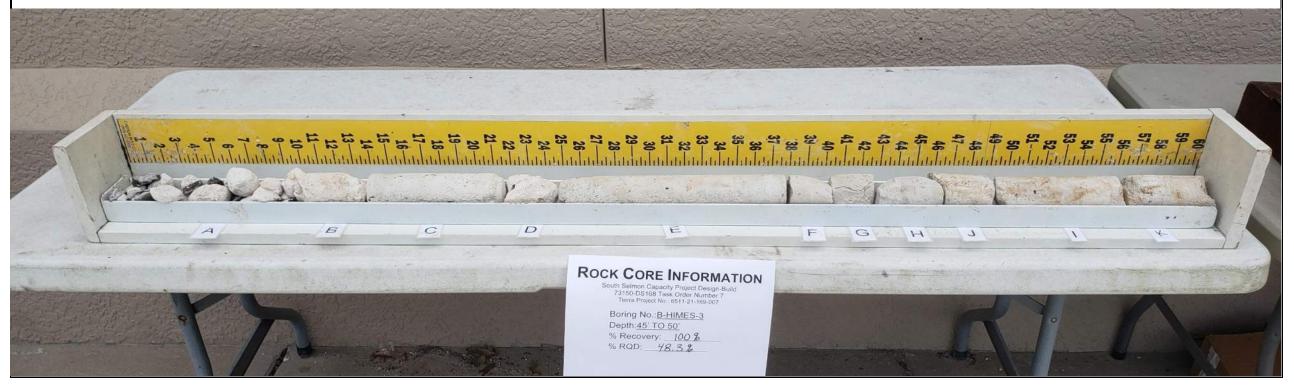
APPENDIX R

Rock Core Photographs



Tierra Project No. 6511-21-169-007 Boring: B-HIMES-3

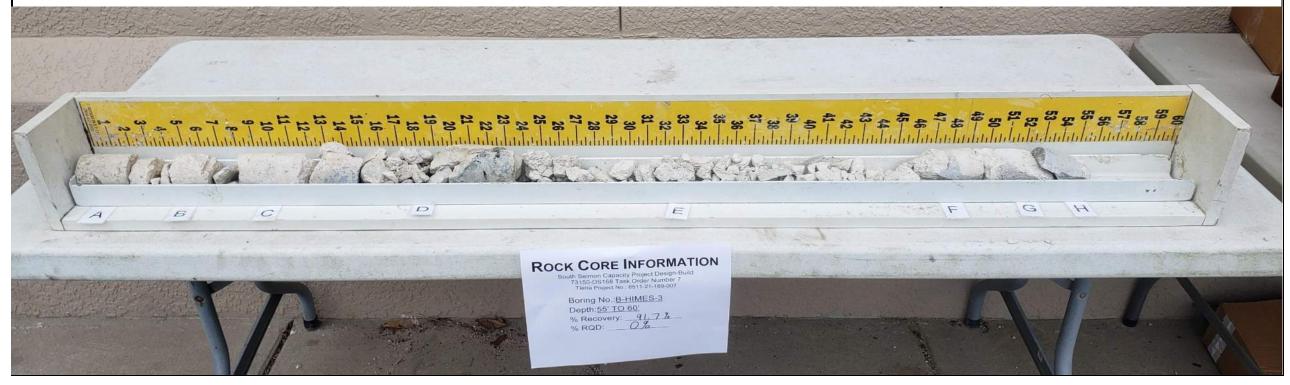
Depth: 45.0' to 50.0'





THEA Project No. HI-0012
Tierra Project No. 6511-21-169-007

Boring: B-HIMES-3 Depth: 55.0' to 60.0'





THEA Project No. HI-0012
Tierra Project No. 6511-21-169-007

Boring: B-EUCLID-1 Depth: 20.0' to 25.0'





THEA Project No. HI-0012
Tierra Project No. 6511-21-169-007

Boring: B-EUCLID-1 Depth: 50.0' to 55.0'





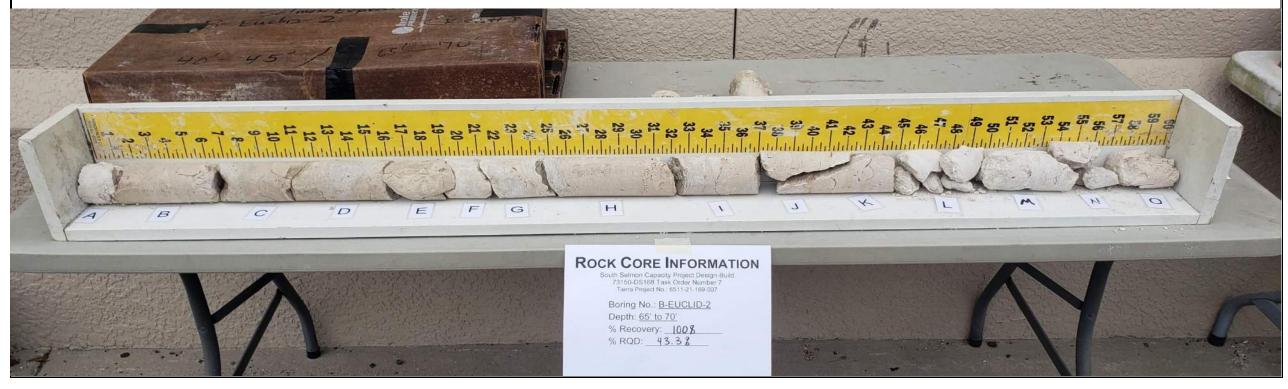
Tierra Project No. 6511-21-169-007

Boring: B-EUCLID-2 Depth: 40.0' to 45.0'



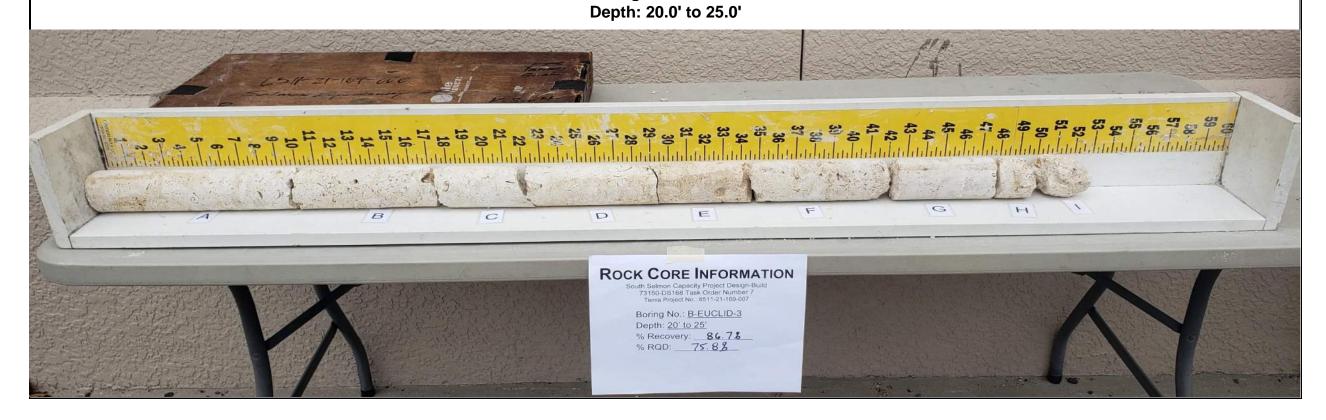


Boring: B-EUCLID-2 Depth: 65.0' to 70.0'





Tierra Project No. 6511-21-169-007 Boring: B-EUCLID-3





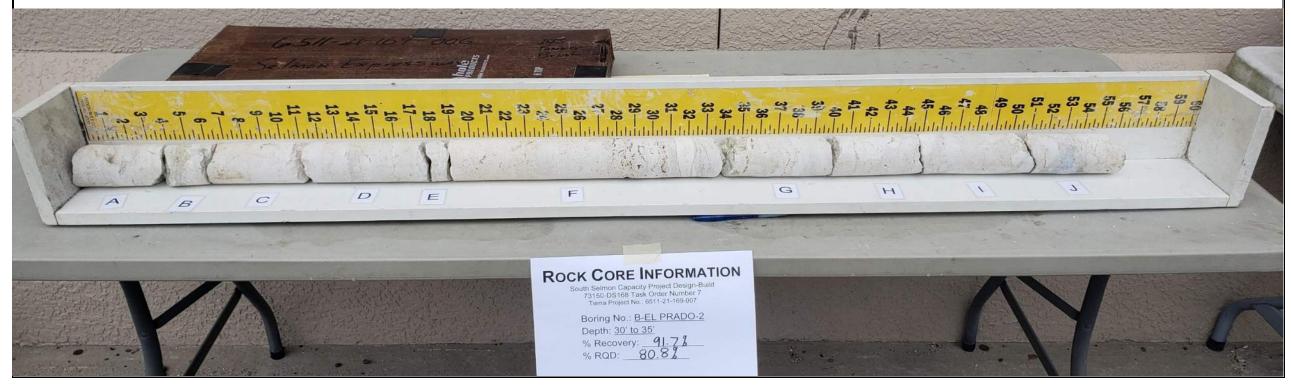
Boring: B-EUCLID-3 Depth: 50.0' to 55.0'





THEA Project No. HI-0012
Tierra Project No. 6511-21-169-007
Boring: B-EL PRADO-1

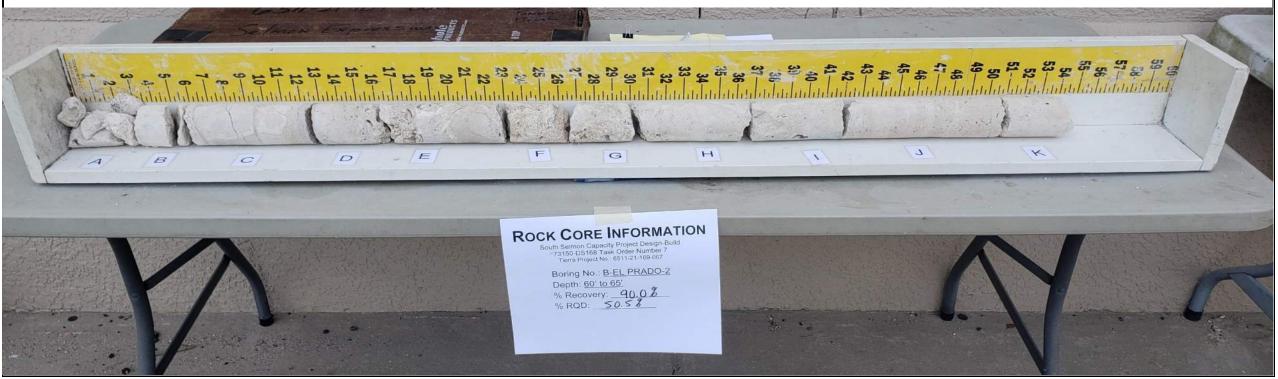
Depth: 30.0' to 35.0'





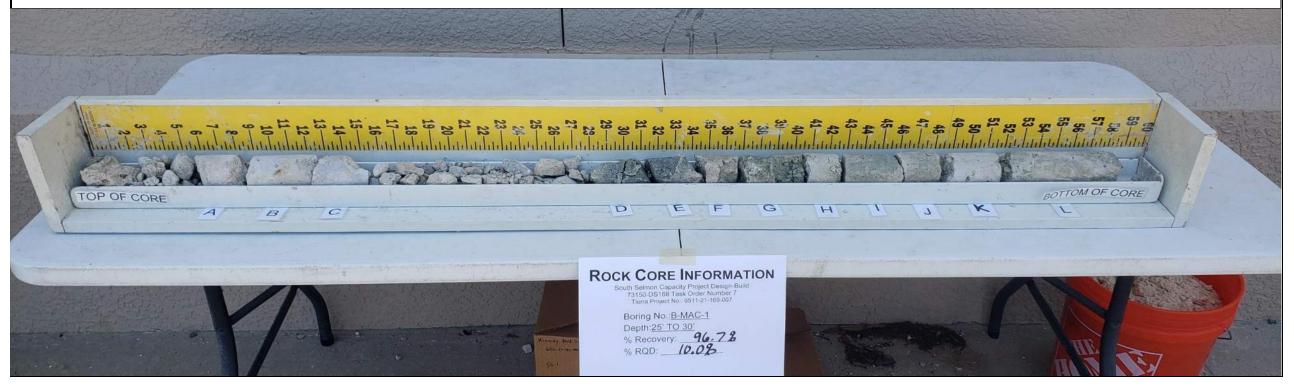
THEA Project No. HI-0012
Tierra Project No. 6511-21-169-007

Boring: B-EL PRADO-1 Depth: 60.0' to 65.0'





Boring: B-MAC-1 Depth: 25.0' to 30.0'





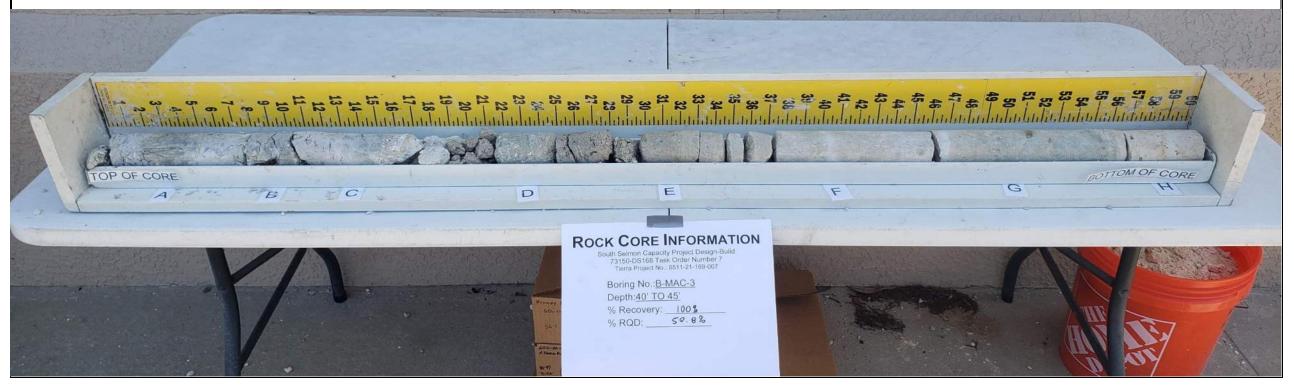
Tierra Project No. 6511-21-169-007

Boring: B-MAC-1 Depth: 55.0' to 60.0'





Boring: B-MAC-3 Depth: 40.0' to 45.0'





Boring: B-MAC-3 Depth: 55.0' to 60.0'





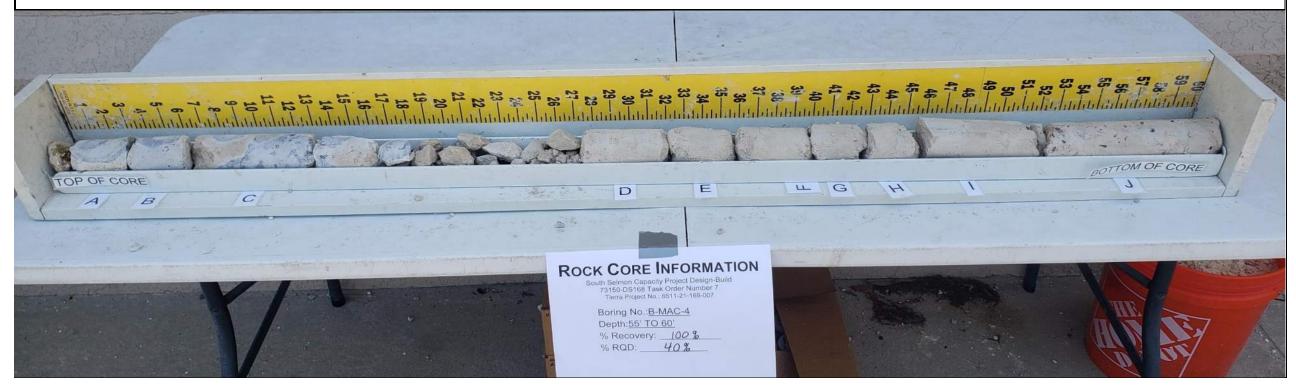
THEA Project No. HI-0012 Tierra Project No. 6511-21-169-007

Boring: B-MAC-4 Depth: 40.0' to 45.0'



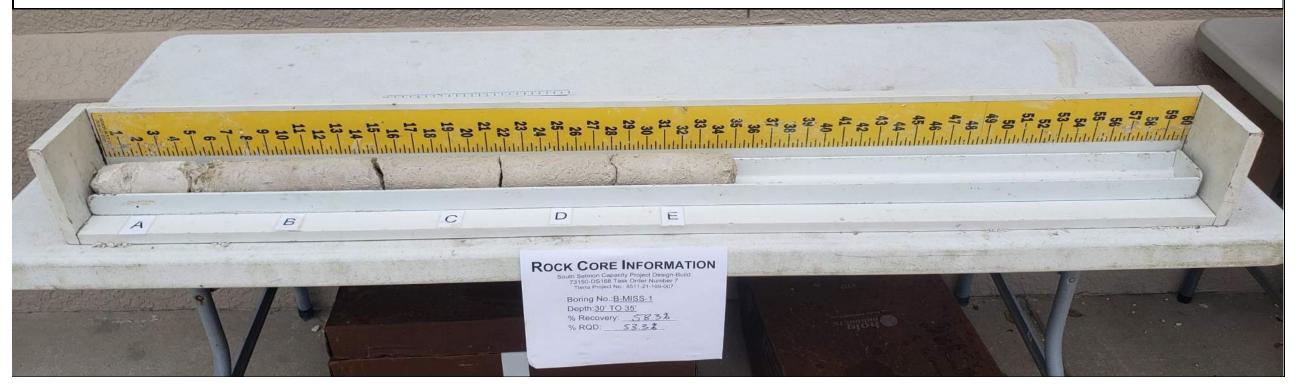


Boring: B-MAC-4 Depth: 55.0' to 60.0'



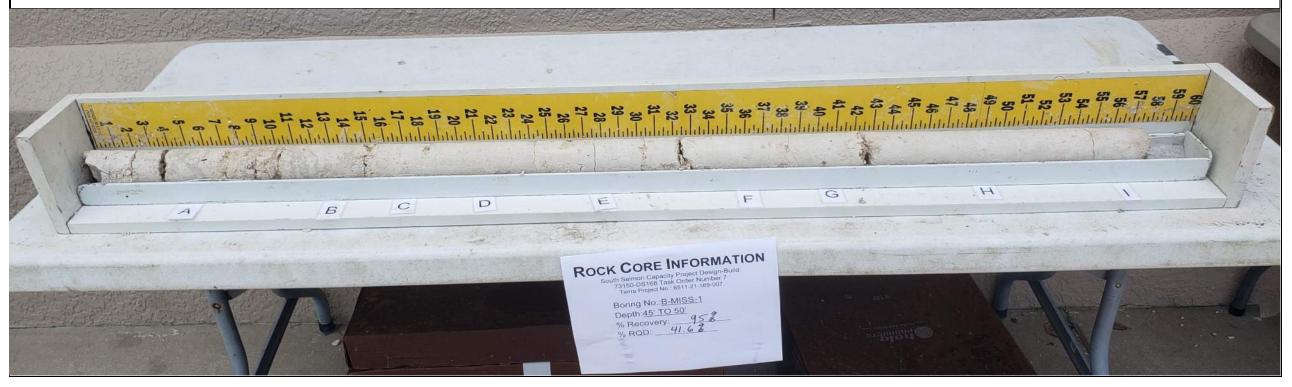


Boring: B-MISS-1 Depth: 30.0' to 35.0'





Boring: B-MISS-1 Depth: 45.0' to 50.0'





Boring: B-MISS-3 Depth: 60.0' to 65.0'



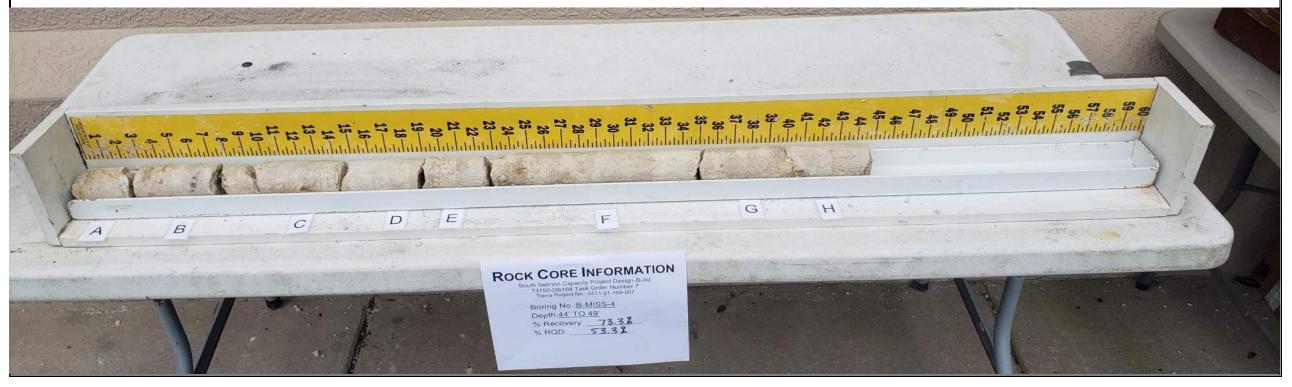


Boring: B-MISS-3 Depth: 70.0' to 73.0'



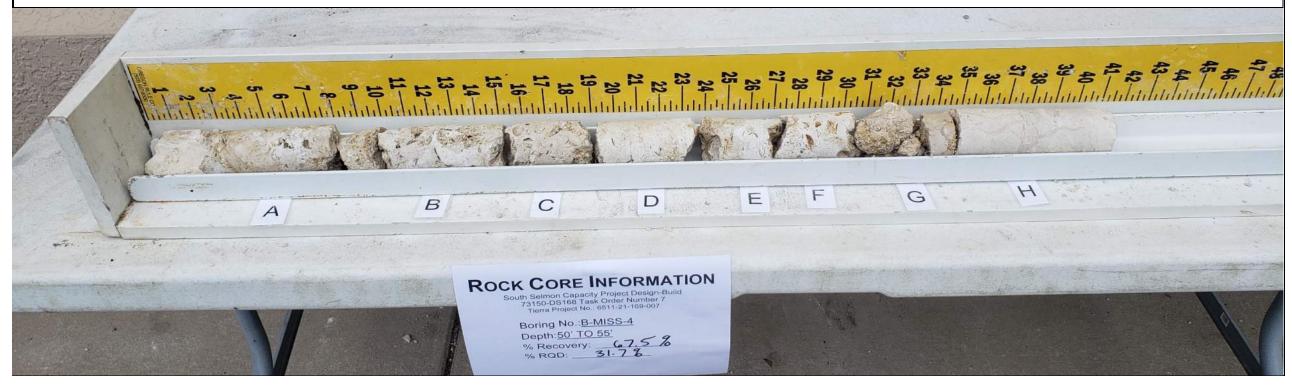


Boring: B-MISS-4 Depth: 44.0' to 49.0'



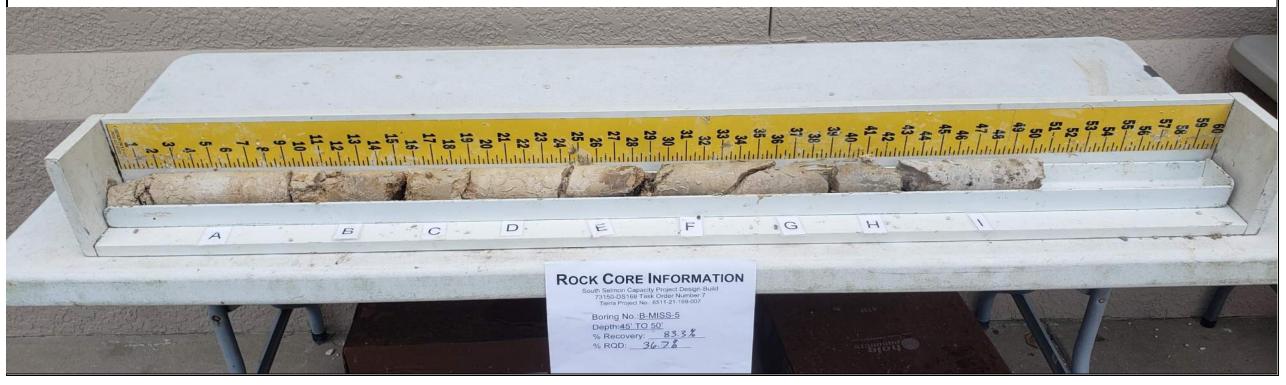


Boring: B-MISS-4 Depth: 50.0' to 55.0'



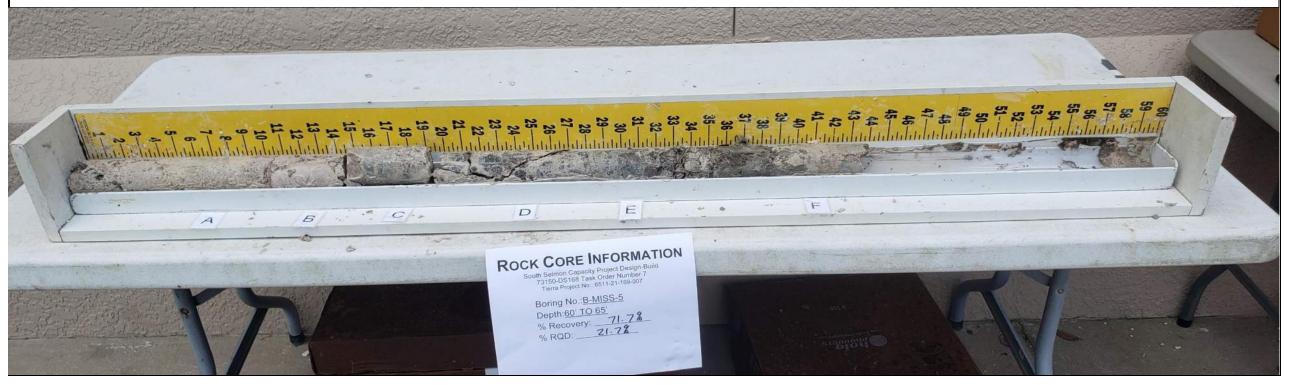


Boring: B-MISS-5 Depth: 45.0' to 50.0'



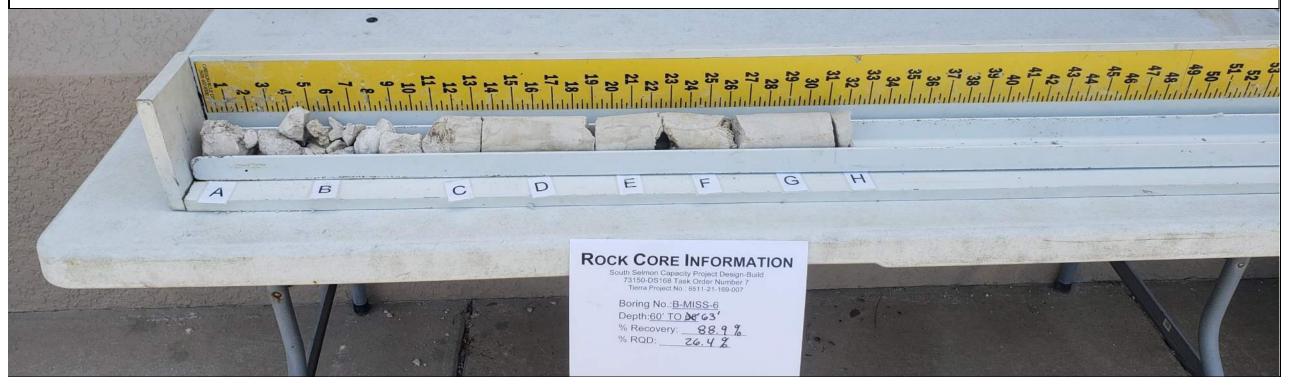


Boring: B-MISS-5 Depth: 60.0' to 65.0'





Depth: 60.0' to 63.0'





Boring: B-MISS-6 Depth: 68.0' to 73.0'





South Selmon Expressway Improvements from Himes Avenue to Whiting Street

Hillsborough County, Florida THEA Project No. HI-0012 Tierra Project No. 6511-21-169-007

Boring: B-WATROUS-2 Depth: 30.0' to 35.0'





South Selmon Expressway Improvements from Himes Avenue to Whiting Street
Hillsborough County, Florida
THEA Project No. HI-0012

Tierra Project No. 6511-21-169-007 Boring: B-WATROUS-2

Depth: 30.0' to 35.0'





Boring: B-MORRISON-2 Depth: 30.0' TO 35.0'



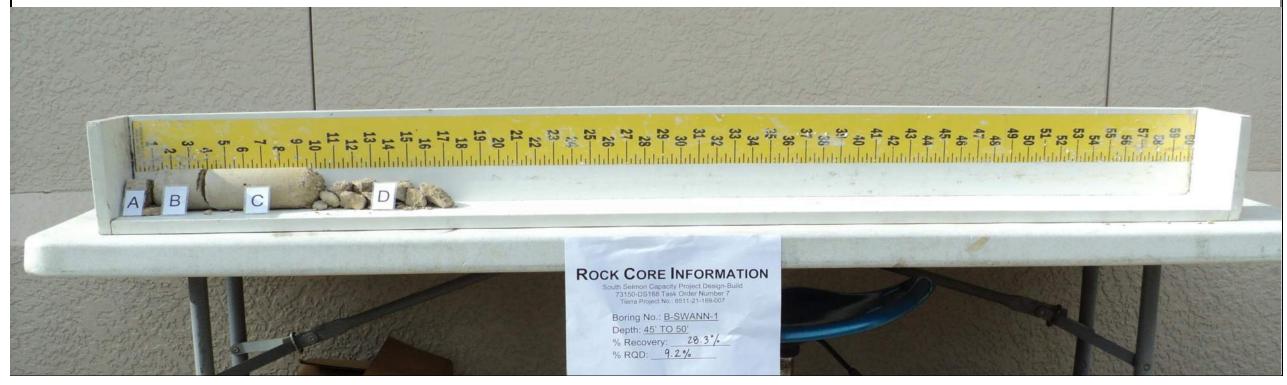


Boring: B-MORRISON-2 Depth: 55.0' TO 60.0'



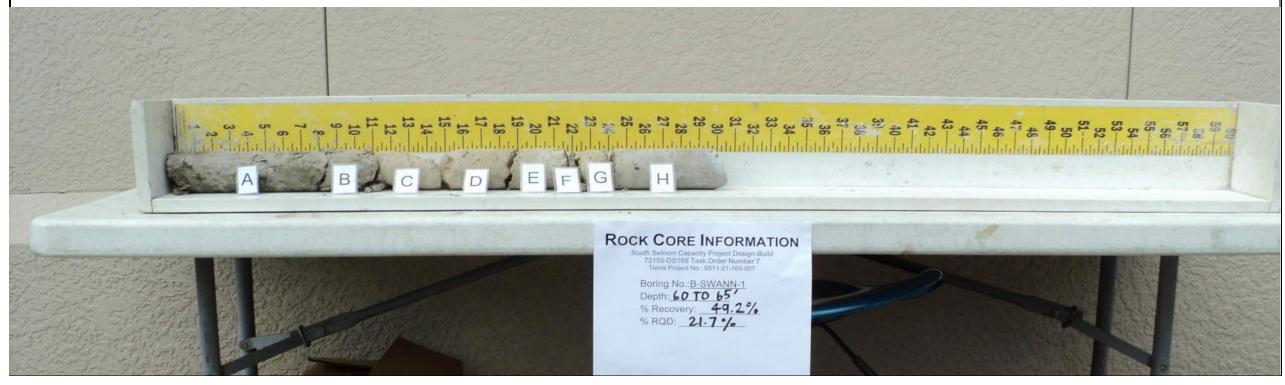


Boring: B-SWANN-1 Depth: 45.0' TO 50.0'



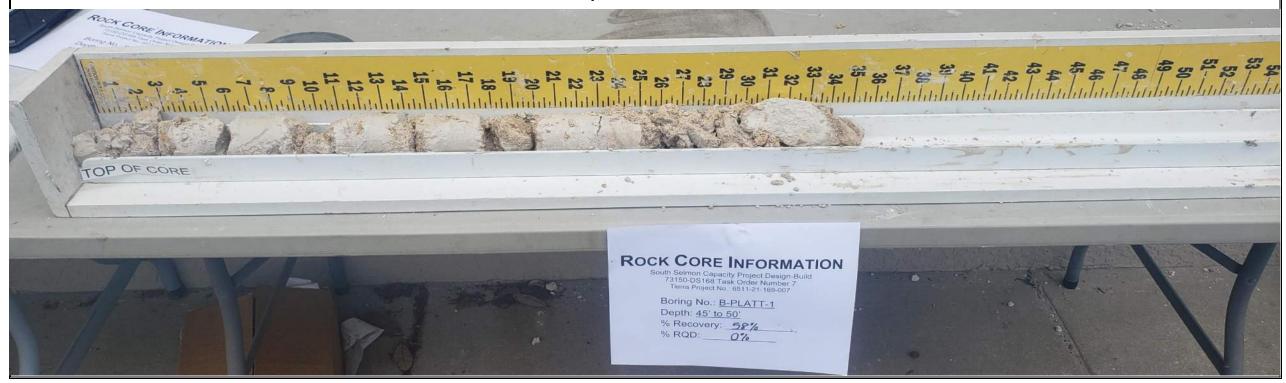


Boring: B-SWANN-1 Depth: 60.0' TO 65.0'



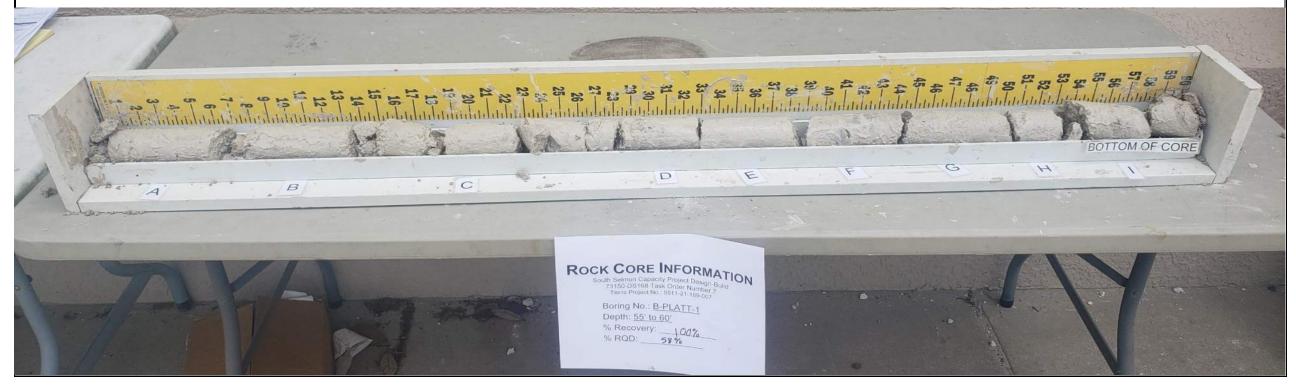


Boring: B-PLATT-1 Depth: 45.0' to 50.0'





Boring: B-PLATT-1 Depth: 55.0' to 60.0'





Boring: B-PLATT-3 Depth: 35.0' to 40.0'





Boring: B-PLATT-3 Depth: 50.0' TO 53.0'

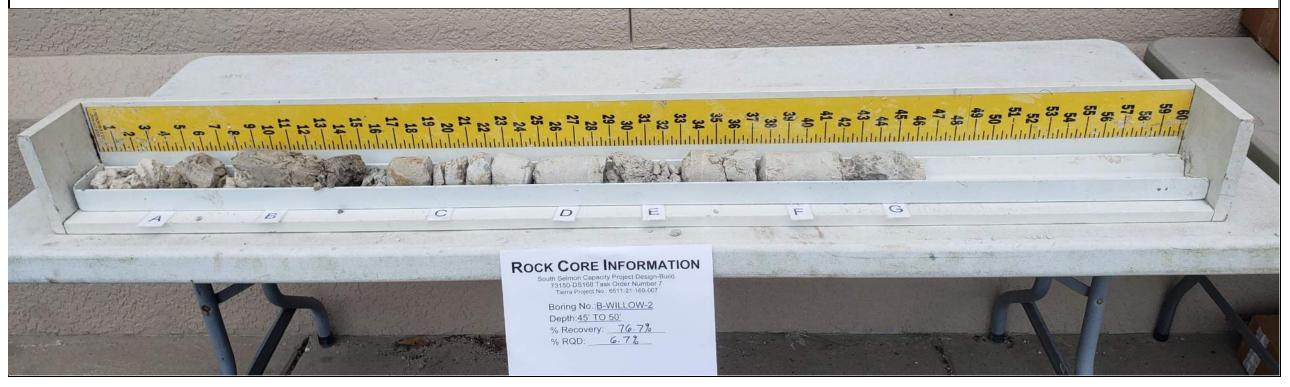




South Selmon Expressway Improvements from Himes Avenue to Whiting Street
Hillsborough County, Florida

THEA Project No. HI-0012 Tierra Project No. 6511-21-169-007

Boring: B-WILLOW-2 Depth: 45.0' to 50.0'





South Selmon Expressway Improvements from Himes Avenue to Whiting Street Hillsborough County, Florida

THEA Project No. HI-0012
Tierra Project No. 6511-21-169-007

Boring: B-WILLOW-2 Depth: 65.0' to 70.0'

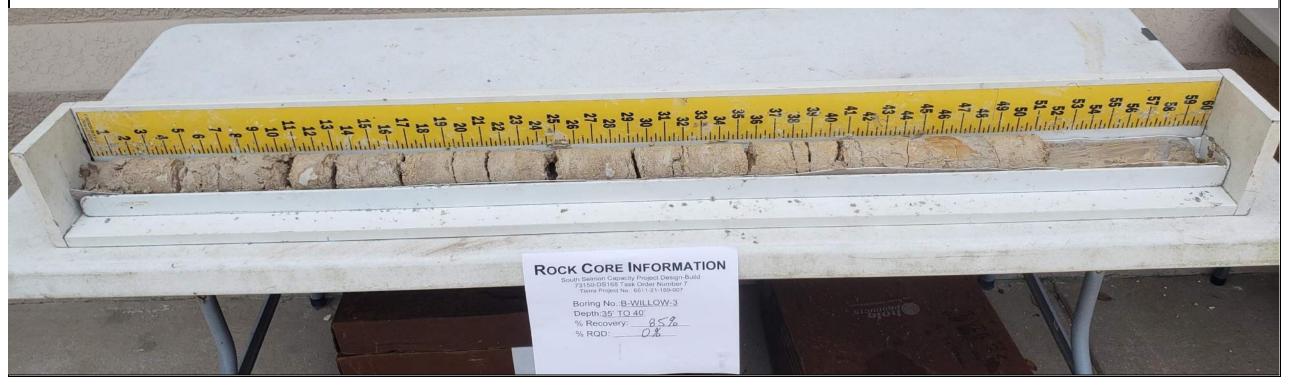




South Selmon Expressway Improvements from Himes Avenue to Whiting Street Hillsborough County, Florida

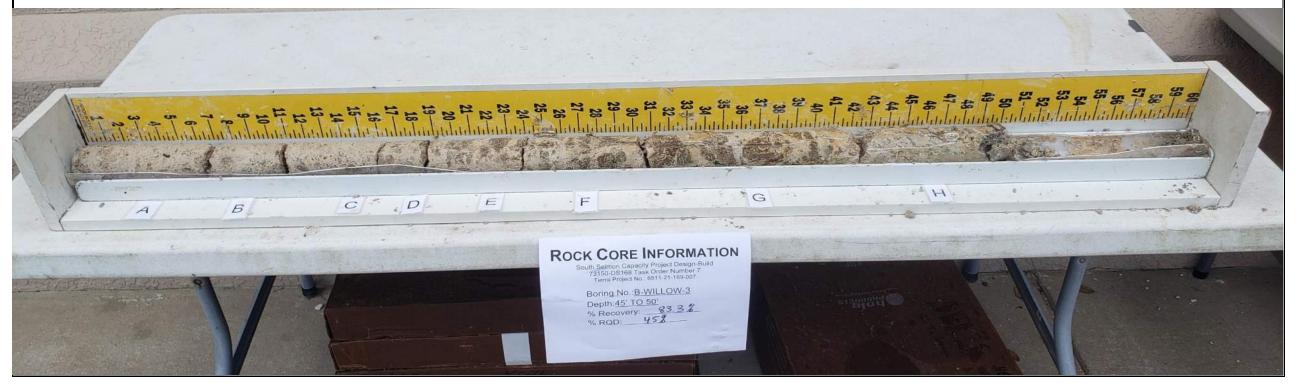
THEA Project No. HI-0012 Tierra Project No. 6511-21-169-007

Boring: B-WILLOW-3 Depth: 35.0' to 40.0'





Boring: B-WILLOW-3 Depth: 45.0' to 50.0'

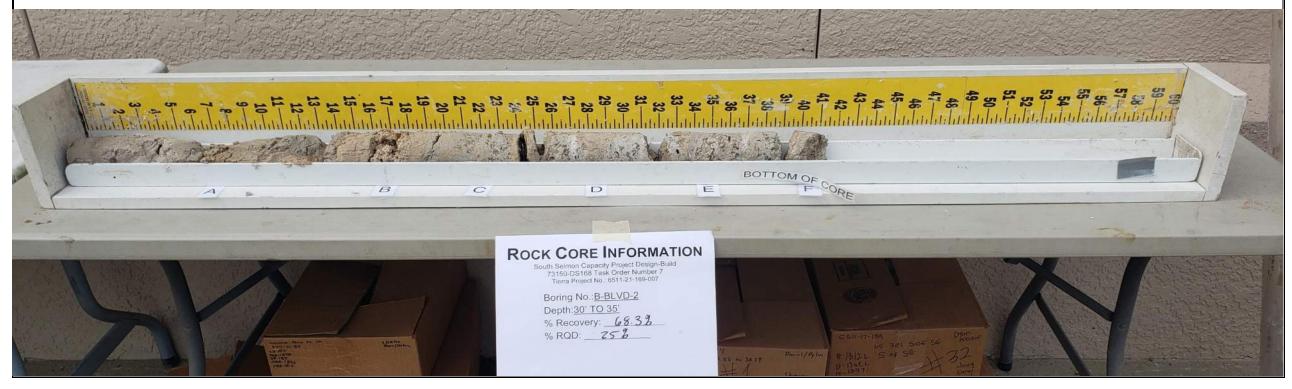




South Selmon Expressway Improvements from Himes Avenue to Whiting Street Hillsborough County, Florida

THEA Project No. HI-0012
Tierra Project No. 6511-21-169-007

Boring: B-BLVD-2 Depth: 30.0' to 35.0'





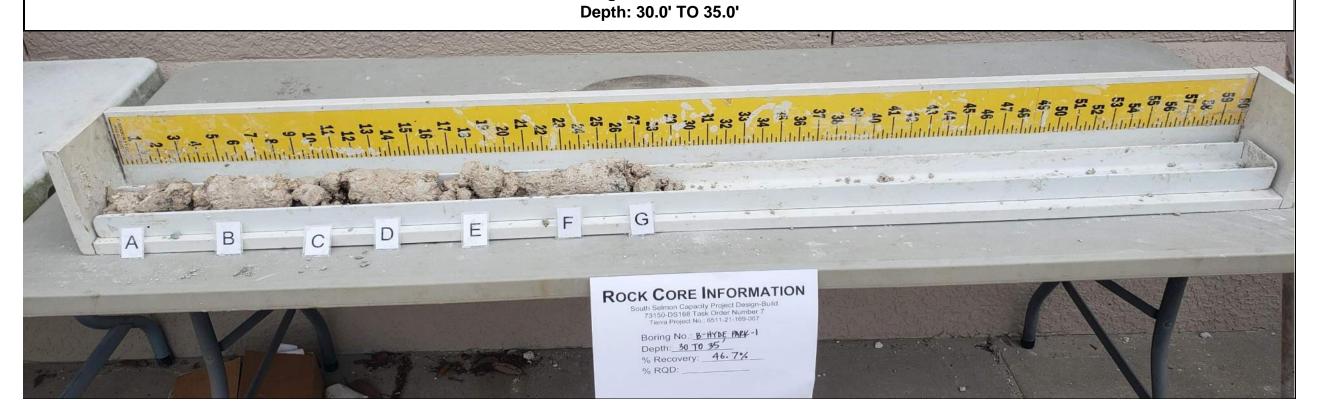
Boring: B-BLVD-2 Depth: 45.0' to 50.0'





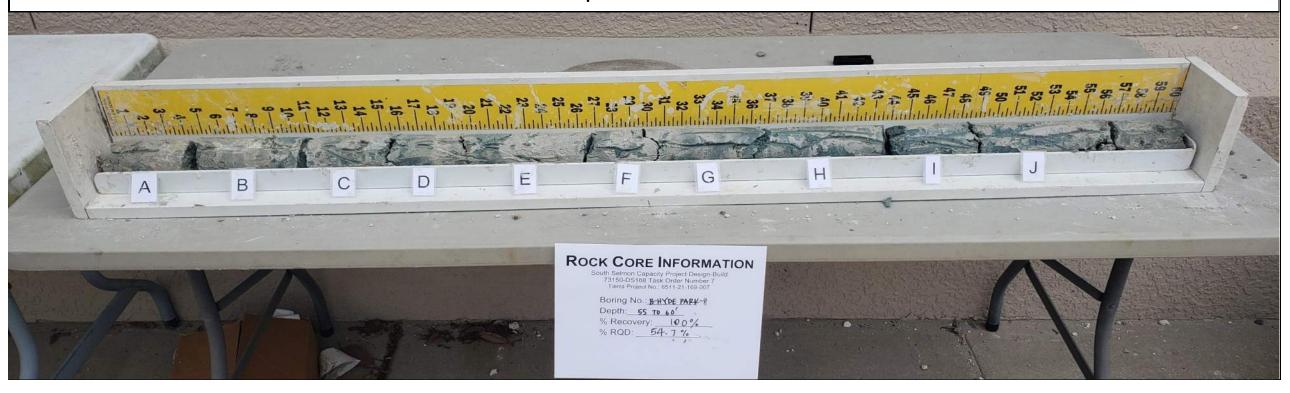
South Selmon Expressway Improvements from Himes Avenue to Whiting Street
Hillsborough County, Florida
THEA Project No. HI-0012

Tierra Project No. 6511-21-169-007 Boring: B-HYDE PARK-1



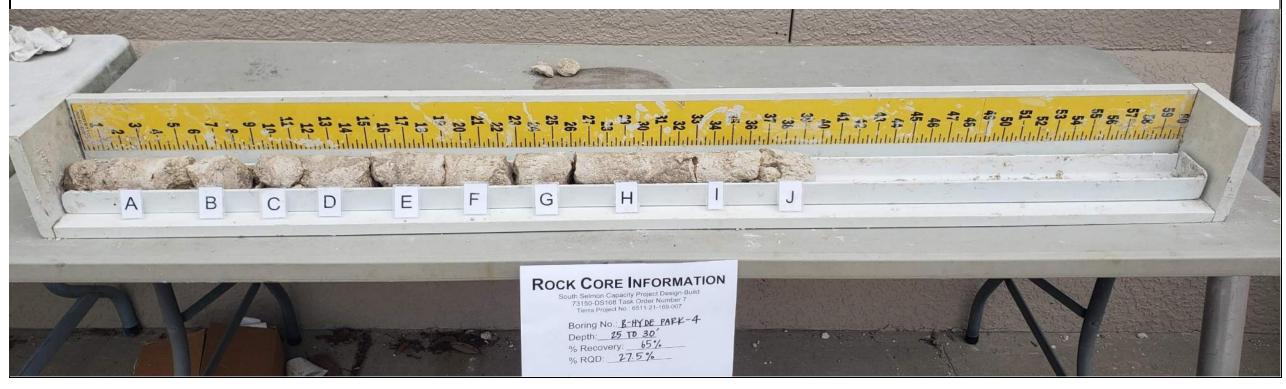


Boring: B-HYDE PARK-1 Depth: 55.0' TO 60.0'



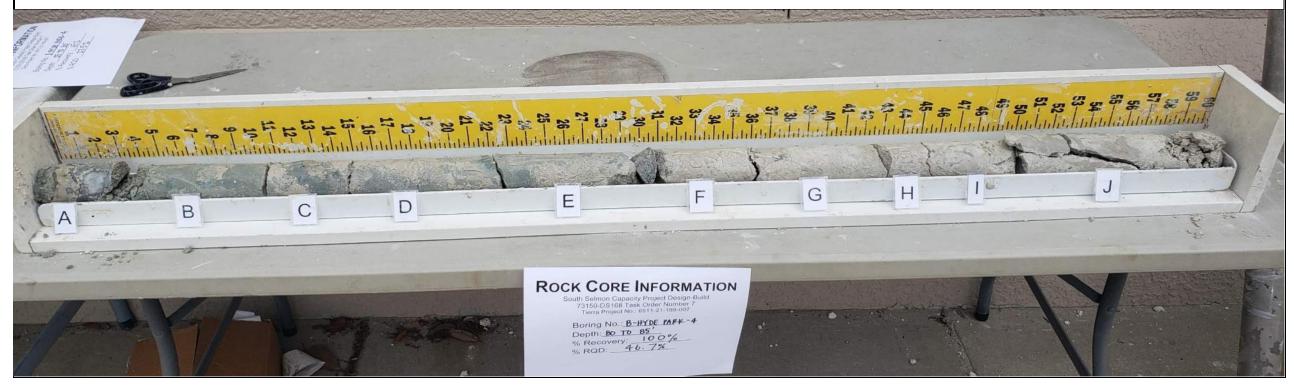


Depth: 25.0' TO 30.0'



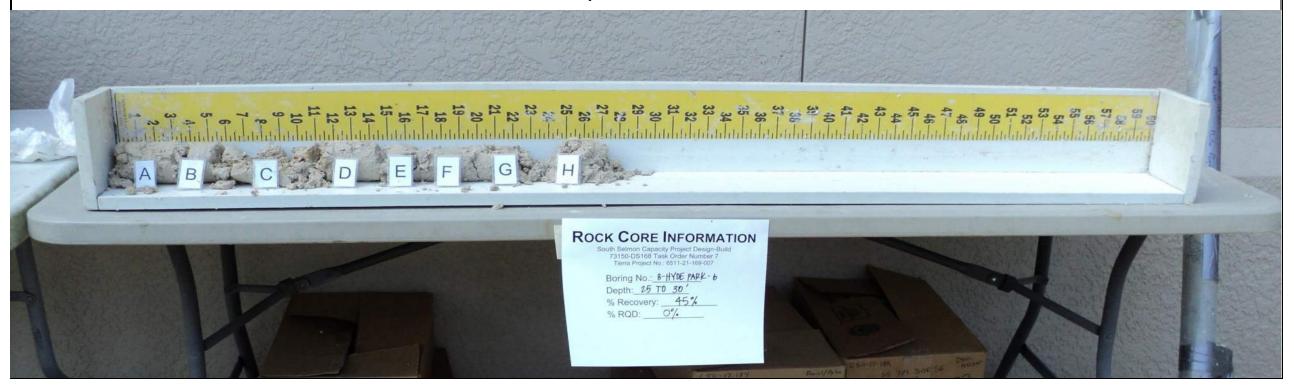


Depth: 80.0' TO 85.0'



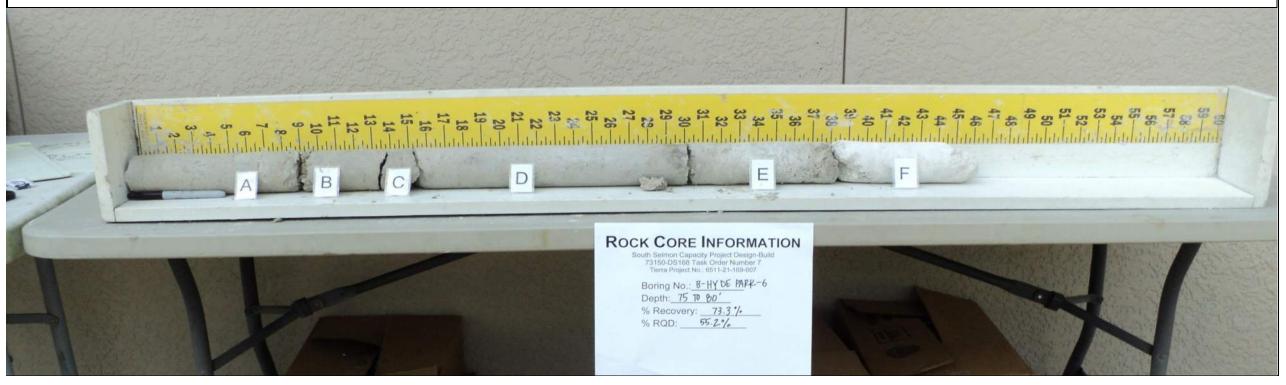


Depth: 25.0' TO 30.0'



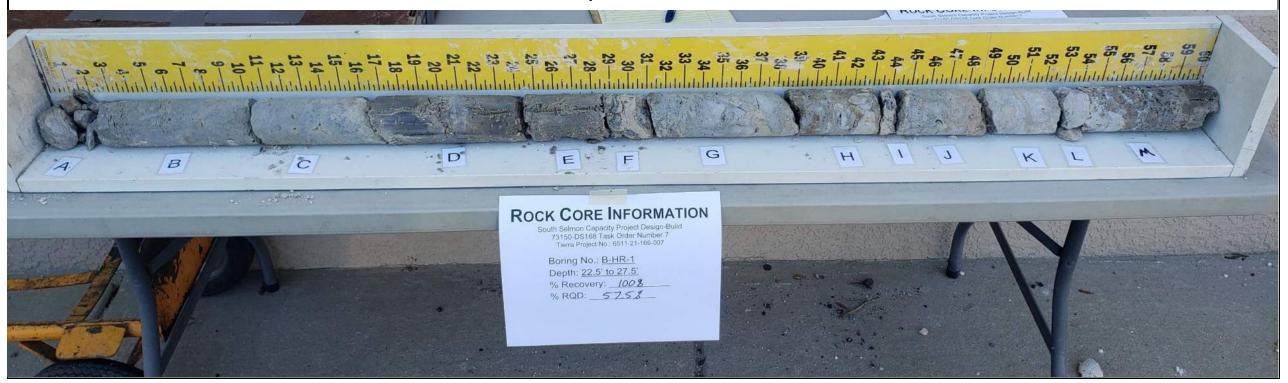


Depth: 75.0' TO 80.0'





Boring: B-HR-1 Depth: 22.5' to 27.5'





Boring: B-HR-1 Depth: 55.0' to 60.0'





Boring: B-HR-4 Depth: 25.0' to 30.0'

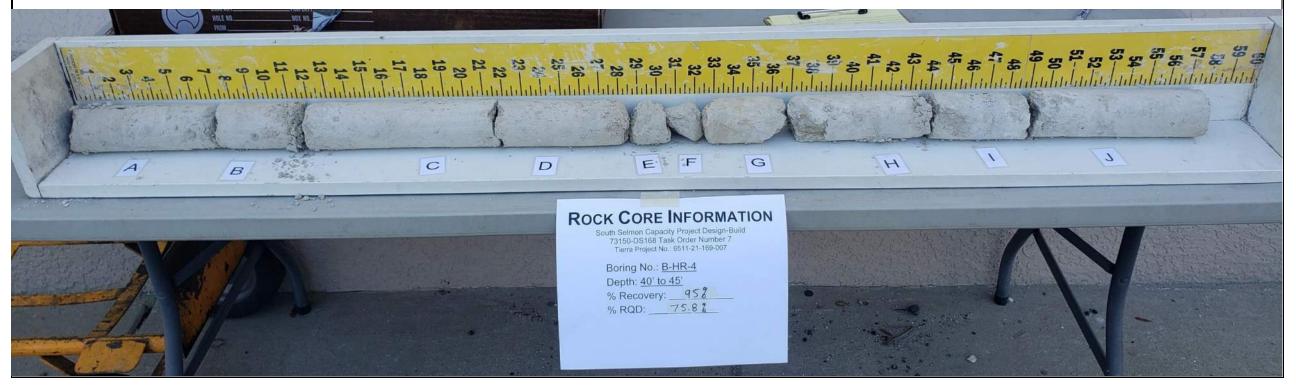




South Selmon Expressway Improvements from Himes Avenue to Whiting Street
Hillsborough County, Florida

THEA Project No. HI-0012 Tierra Project No. 6511-21-169-007

Boring: B-HR-4 Depth: 40.0' to 45.0'





Boring: B-HR-5 Depth: 40.0' to 45.0'



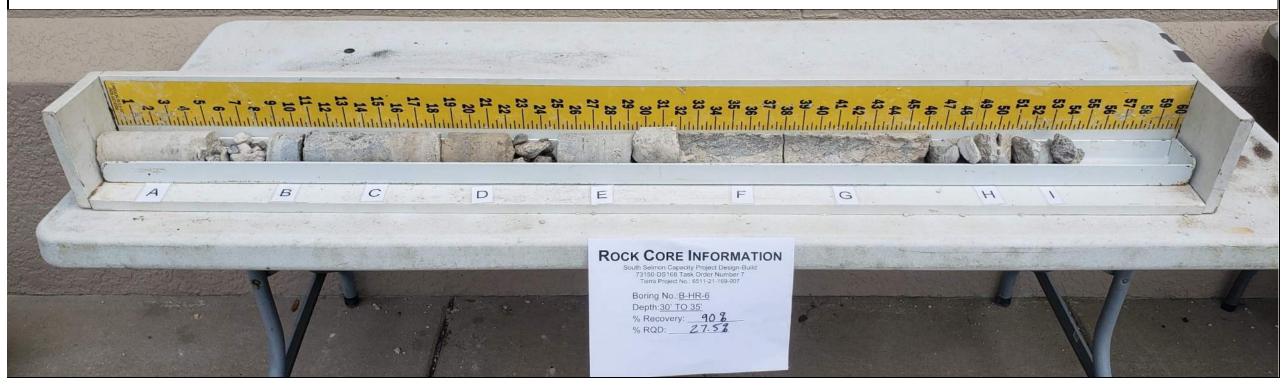


Boring: B-HR-5 Depth: 50.0' to 55.0'





Boring: B-HR-6 Depth: 30.0' to 35.0'



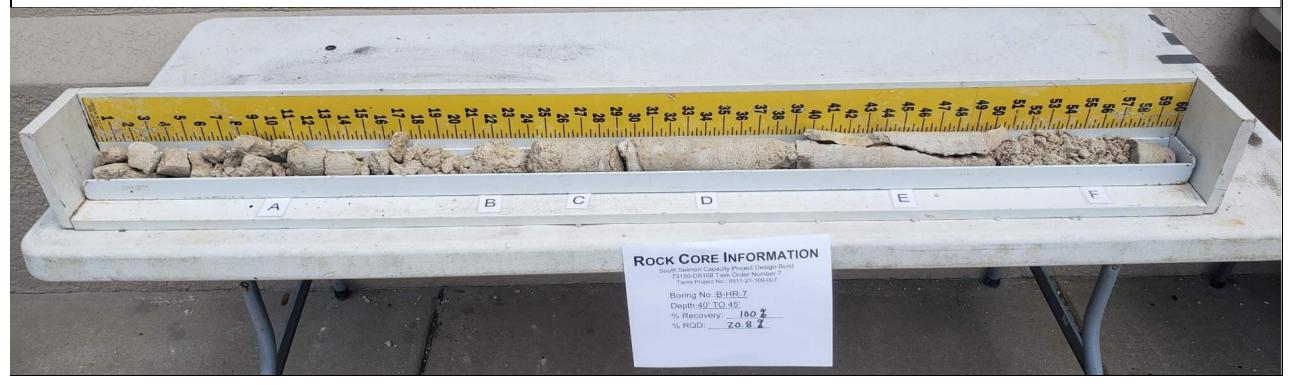


Boring: B-HR-6 Depth: 50.0' to 55.0'





Boring: B-HR-7 Depth: 40.0' to 45.0'





Boring: B-HR-7 Depth: 50.0' to 55.0'





Boring: B-VIA-4 Depth: 30.0' to 35.0'





Boring: B-VIA-4 Depth: 40.0' to 45.0'



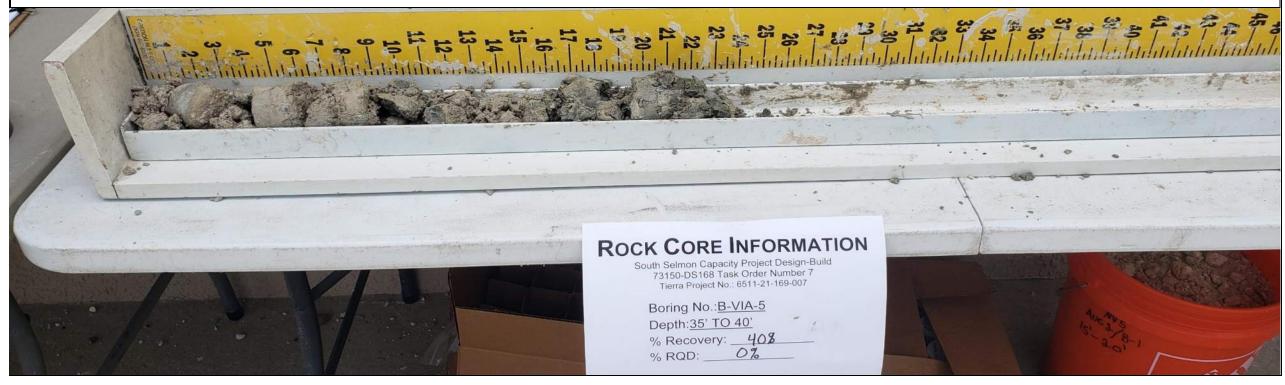


Boring: B-VIA-5 Depth: 20.0' to 25.0'





Boring: B-VIA-5 Depth: 35.0' to 40.0'





Depth: 47.0' to 52.0'





Boring: B-VIA-10 Depth: 60.0' to 65.0'





Boring: B-VIA-12 Depth: 35.0' to 40.0'



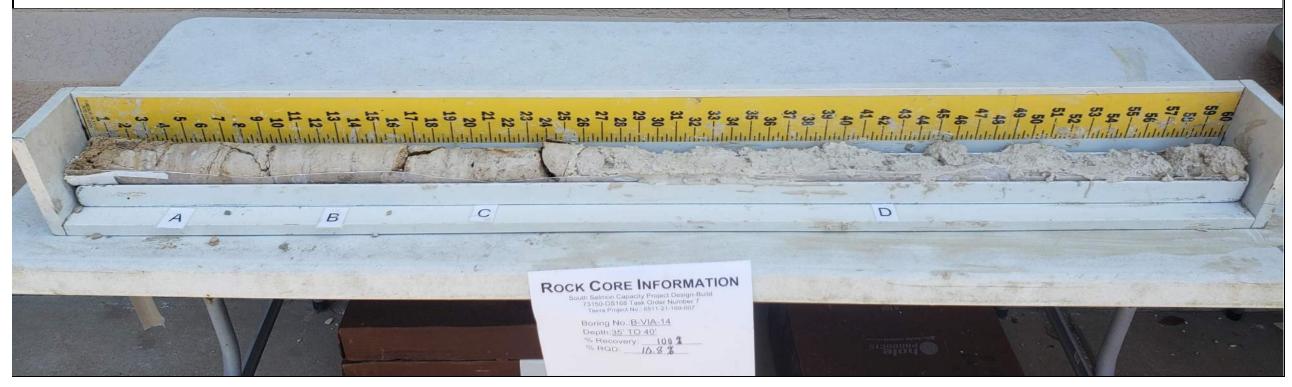


Boring: B-VIA-12 Depth: 55.0' to 60.0'





Boring: B-VIA-14 Depth: 35.0' to 40.0'





Boring: B-VIA-14 Depth: 45.0' to 50.0'





Boring: B-VIA-15 Depth: 35.0' to 40.0'

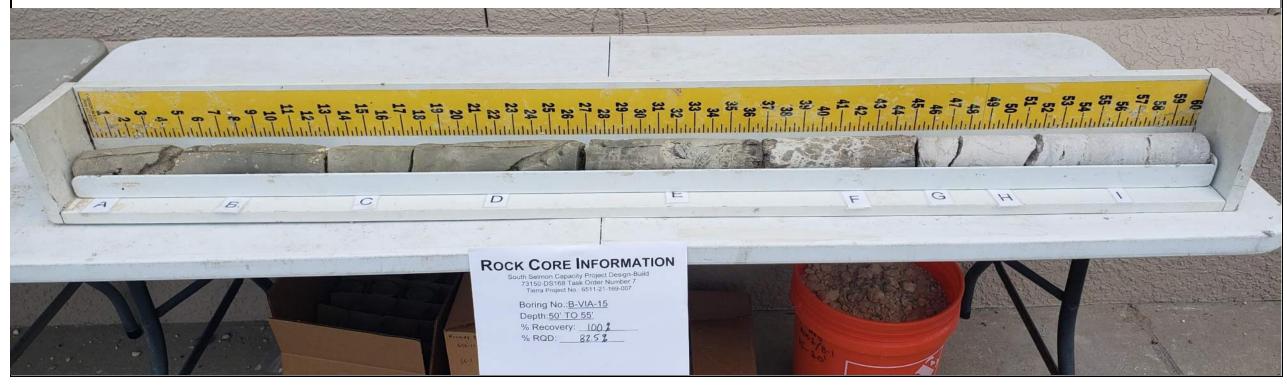




South Selmon Expressway Improvements from Himes Avenue to Whiting Street

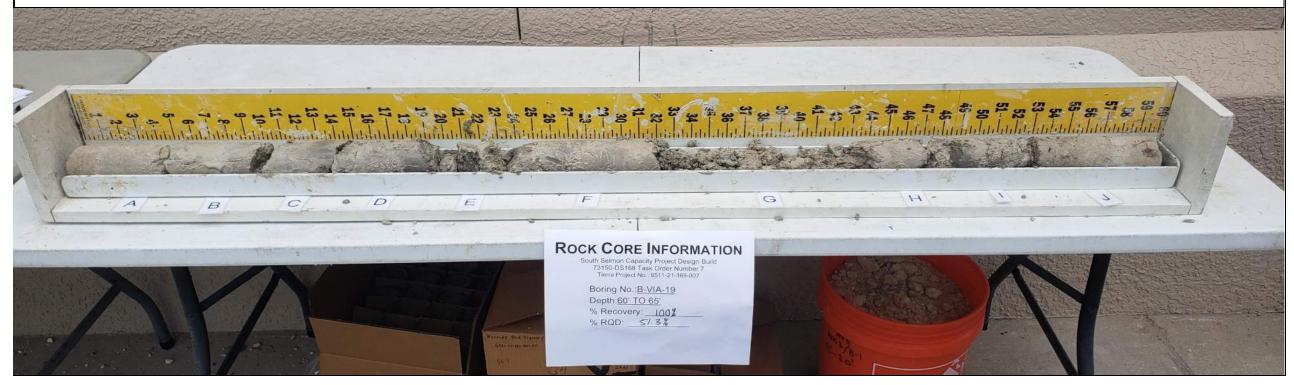
Hillsborough County, Florida THEA Project No. HI-0012 Tierra Project No. 6511-21-169-007

Boring: B-VIA-15 Depth: 50.0' to 55.0'



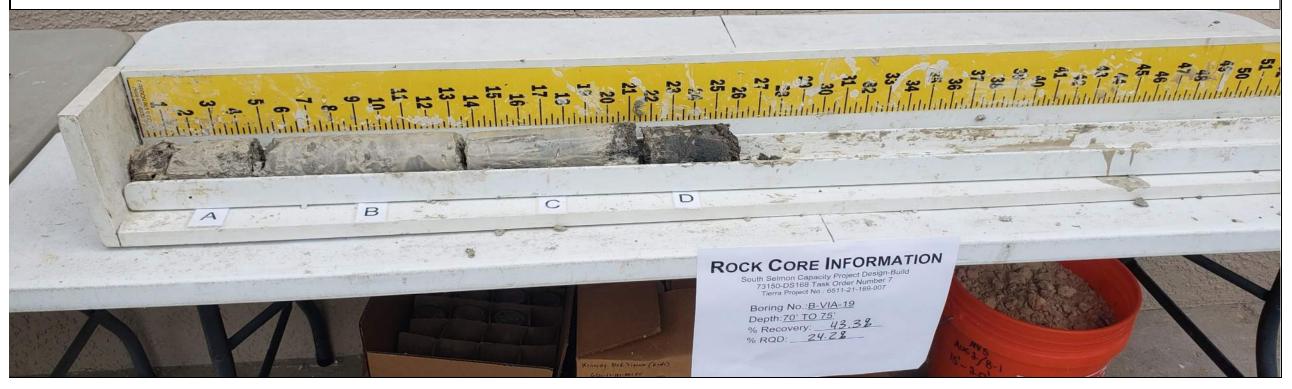


Boring: B-VIA-19 Depth: 60.0' to 65.0'



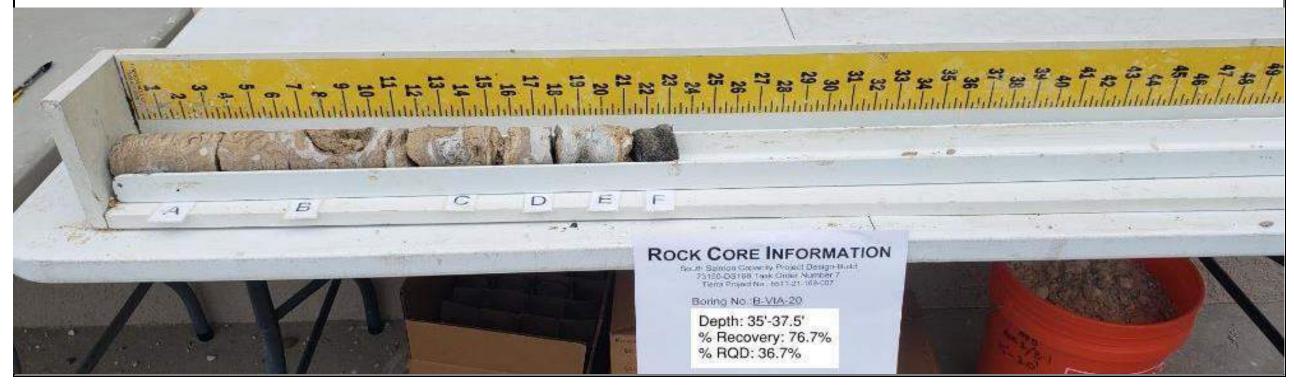


Boring: B-VIA-19 Depth: 70.0' to 75.0'



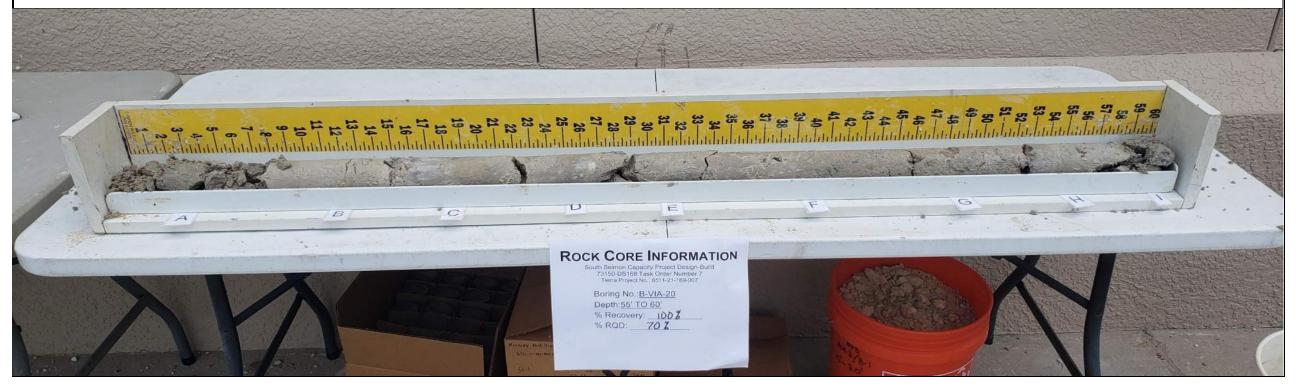


Boring: B-VIA-20 Depth: 35.0' to 37.5'





Boring: B-VIA-20 Depth: 55.0' to 60.0'

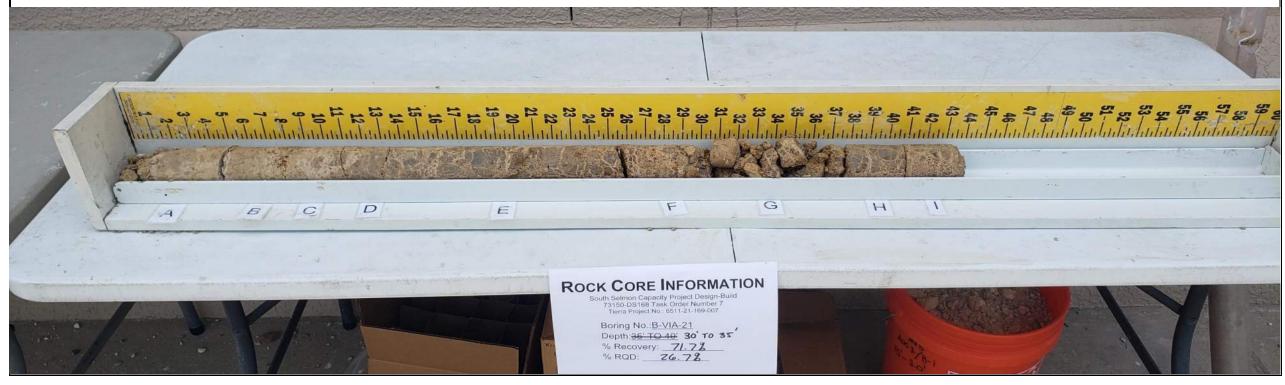




South Selmon Expressway Improvements from Himes Avenue to Whiting Street
Hillsborough County, Florida
THEA Project No. HI-0012

Tierra Project No. 6511-21-169-007

Boring: B-VIA-21 Depth: 30.0' to 35.0'





Boring: B-VIA-21 Depth: 40.0' to 45.0'





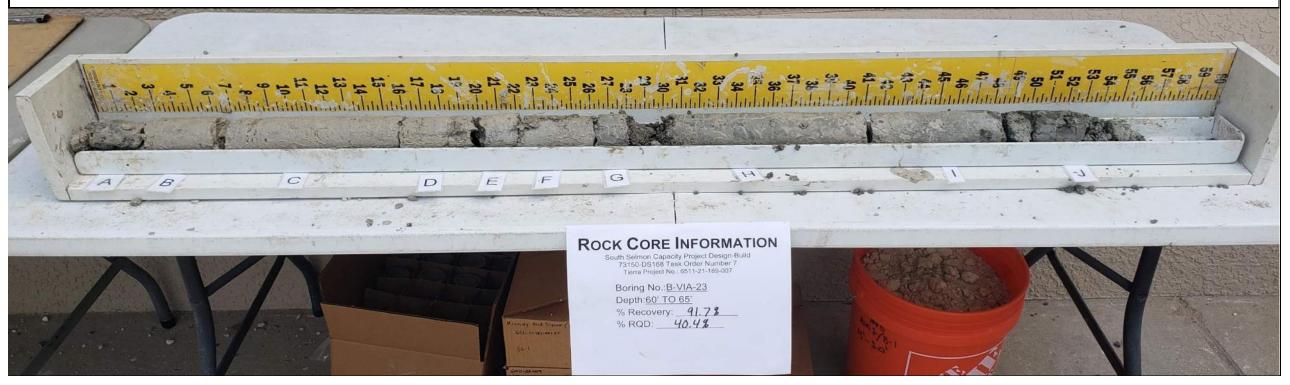
South Selmon Expressway Improvements from Himes Avenue to Whiting Street
Hillsborough County, Florida
THEA Project No. HI-0012

Tierra Project No. 6511-21-169-007 Boring: B-VIA-23





Boring: B-VIA-23 Depth: 60.0' to 65.0'





Boring: B-VIA-24 Depth: 35.0' to 40.0'



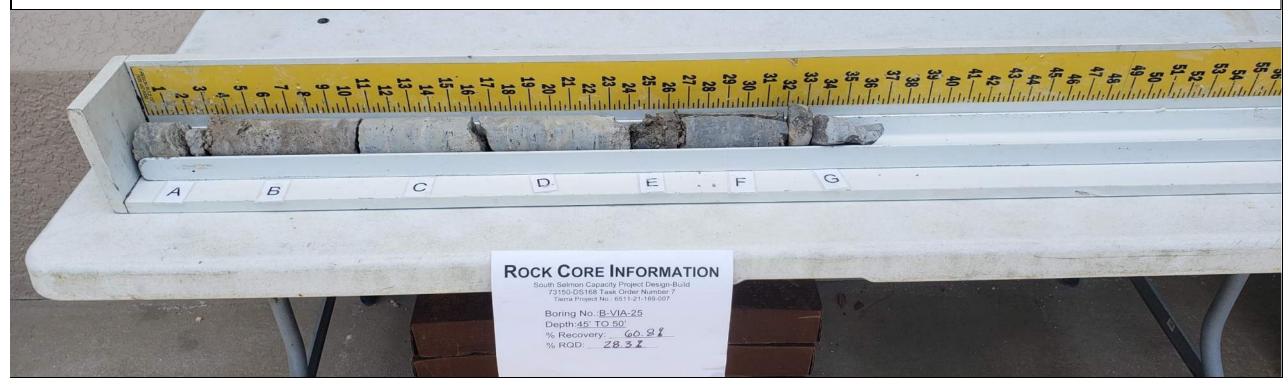


Boring: B-VIA-24 Depth: 50.0' to 55.0'





Boring: B-VIA-25 Depth: 45.0' to 50.0'



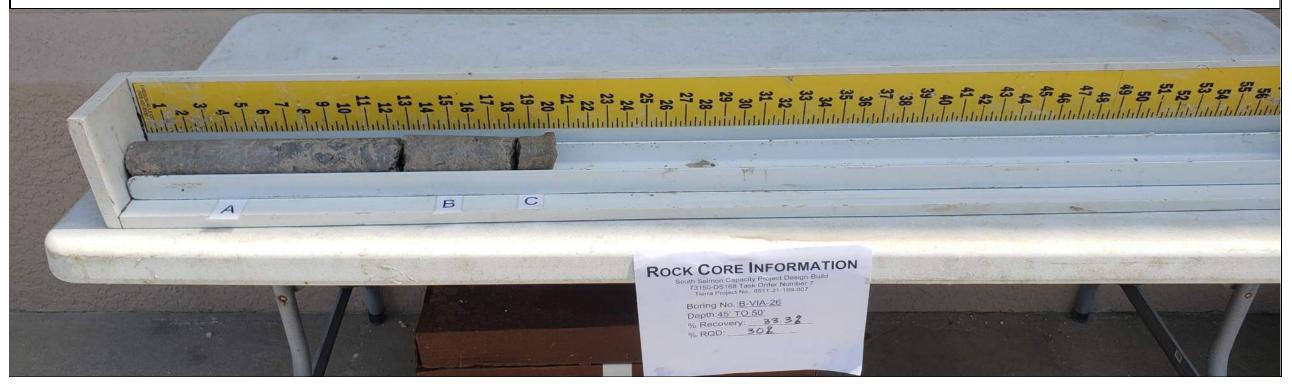


Boring: B-VIA-25 Depth: 50.0' to 55.0'





Depth: 45.0' to 50.0'





Boring: B-VIA-26 Depth: 55.0' to 60.0'





Boring: B-VIA-27 Depth: 30.0' to 35.0'





Boring: B-VIA-27 Depth: 50.0' to 55.0'

