



ECS Florida, LLC

Preliminary Geotechnical Engineering Report 208 Holdings Riverview Property

Balm Riverview Road and County Road 672, Balm, Hillsborough County, Florida

ECS Project Number 41:2512

July 10, 2019





Seotechnical • Construction Materials • Environmental • Facilities

July 10, 2019

Mr. Steven Luce Eisenhower Property Group 111 S Armenia Avenue Tampa, Florida 33609

ECS Project No. 41:2512

Reference: Preliminary Geotechnical Engineering Report

208 Holdings Riverview Property

Balm Riverview Road and County Road 672,

Balm, Hillsborough County, Florida

Dear Mr. Luce:

ECS Florida, LLC (ECS) has completed the subsurface exploration, laboratory testing, and preliminary geotechnical engineering analyses for the above-referenced project. Our services were performed in general accordance with ECS Proposal 41-3254-GP, dated May 30, 2019. This report presents our understanding of the geotechnical aspects of the project, the results of the field exploration and laboratory testing conducted, and design and construction aspects. Once the final project layout is completed, additional geotechnical exploration could be required to confirm our foundation recommendations and a final report will be issued.

It has been our pleasure to be of service to Eisenhower Property Group during the design phase of this project. We would appreciate the opportunity to remain involved during the continuation of the design phase, and we would like to provide our services during construction phase operations as well to verify the assumptions of subsurface conditions made for this report. Should you have any questions concerning the information contained in this report, or if we can be of further assistance to you, please contact us.

Respectfully submitted,

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EXECUTIVE SUMMARY

The following summarizes the preliminary main findings of the limited geotechnical subsurface exploration and preliminary analyses, particularly those that may have a cost impact on the planned development. Further, our principal foundation recommendations are summarized. Information gleaned from the executive summary should not be utilized in lieu of reading the entire geotechnical report.

- The limited geotechnical exploration performed for the planned development included 40 soil test borings drilled to the depth of 30 and 35 feet below existing grade.
- Subsurface conditions within the borings generally consisted of an upper loose to medium dense sandy stratum (SP and SP-SM), a medium dense to very dense silty sand stratum (SP-SM and SM), a loose to medium dense sandy stratum (SP and SP-SM), followed by a clayey stratum (CL and SC) extending to the termination depths of the borings.
- We preliminarily estimate that lightly loaded buildings/residential structures can be supported on conventional shallow foundations consisting of column or strip footings bearing on natural soils or approved structural fill with an allowable net bearing capacity on the order of 2,000 psf to 2,500 psf.
- The depth of the subsurface soils suitable for use as structural fill was consistent from current existing grade to approximately 22 feet to 35 feet across the site. Soils excavated from below the water table will likely require moisture conditioning prior to final placement and compaction.
- In general, we consider the site adaptable for a flexible light duty pavement system. Please see Section 5.3.1 for more details.

1.0 INTRODUCTION

1.1 GENERAL

The purpose of this study was to provide preliminary geotechnical information for the development of two parcels identified by Hillsborough County Property Appraisers as Parcel No. U-23-31-20-ZZZ-000003-16970 (46 acre site) and No. U-23-31-20-ZZZ-000003-17020.0 (26 acre site). Based on our review of available aerial photographs the proposed site currently consists of grassed vacant lots. Based on our review of the National Wetlands Survey the southeast corner of the northern parcel contains a wetland area measured to be approximately 1.3 acres.

The recommendations developed for this preliminary report are based on project information supplied by your office. This report contains the results of our subsurface exploration and laboratory testing programs, site characterization, results of engineering analyses, and preliminary recommendations for the design and construction of the planned development. Once the final project layout and final structural loading is provided, additional geotechnical exploration could be required to finalize our geotechnical report.

1.2 SCOPE OF SERVICES

To obtain the necessary geotechnical information required for the preliminary design of the proposed development, soil test borings were performed at locations selected and located by ECS.

This preliminary report discusses our exploratory and testing procedures, presents our findings and evaluations and includes the following geotechnical aspects.

- A brief review and description of our field and laboratory test procedures and the results of testing conducted.
- A review of surface topographical features and site conditions.
- A review of area and site geologic conditions.
- A review of subsurface soil stratigraphy with pertinent available physical properties.
- Final copies of our soil test borings.
- Recommendations for site preparation and construction of compacted fills, including an
 evaluation of on-site soils for use as compacted fills and delineation of potentially
 unsuitable soils and/or soils exhibiting excessive moisture at the time of sampling.
- Preliminary foundation recommendations.
- Preliminary stormwater parameter recommendations.
- Recommendations on pavement sections.

1.3 AUTHORIZATION

Our services were provided in accordance with our ECS Proposal 41-3254-GP, dated May 30, 2019, including our Terms and Conditions of Service, as authorized by Eisenhower Property Group on June 4, 2019.

2.0 PROJECT INFORMATION

2.1 PROJECT LOCATION

The site is located directly south of the intersection of Balm Road and Balm Riverview Road in Riverview, Hillsborough County, Florida as shown below in Figure 2.1.1, below. The site is bound to the south and west by farm lands and grassed lots, and to the north and east by Balm Road.



Figure 2.1.1. Site Location

2.2 SITE HISTORY / PAST USES

ECS reviewed aerial photographs of the subject property and immediate surrounding properties on Google Earth. The aerial photographs reviewed were dated 1995, 1999, 2002, 2004 through 2010, and 2012 through 2019.

Based on our review of the available historical aerial photographs, both parcels of land previously consisted of farmlands. Little to no changes were observed within the site during this time.

2.3 CURRENT SITE CONDITIONS

Based on our review of available street-views and site visits, the proposed site is currently vacant farmland with a wetland. The wetland is measured to be approximately 1.3 acres and is located in the southeast corner of the northern parcel. Ground surface elevations noted on our boring logs were interpolated from published topographic information and should not be used for site design purposes. No site-specific survey was performed for this project.

2.4 PROPOSED CONSTRUCTION

Based on the information provided to us, we understand the project is likely to consist of single-family residences with associated parking and drive areas. A site layout was not available at the time this preliminary report was completed.

2.4.1 Structural Information/Loads

The following design values explain our understanding of the structures and their assumed structural loads:

Table 2.4.1.1 Building Design Values

SUBJECT	DESIGN INFORMATION / EXPECTATIONS	
Construction	Assumed single-family housing	
# of Stories	One-story and two-story residences (assumed)	
Framing	We anticipate the buildings will be principally wood framing or concrete masonry unit (CMU) walls	
Column Loads *	Assumed 30 kips (Full Dead and Factored Live) maximum	
Wall Loads *	Assumed three kips per linear foot (klf) maximum	

^{*}If assumed loads differ from final design loads, this preliminary report needs to be revised accordingly to recalculate bearing capacity and estimate actual settlements, and additional geotechnical exploration.

3.0 FIELD EXPLORATION

3.1 FIELD EXPLORATION PROGRAM

The field exploration was planned with the objective of characterizing the project site in general geotechnical and geological terms and to evaluate subsequent field and laboratory data to assist in the determination of geotechnical recommendations.

3.1.1 Test Borings

The subsurface conditions were explored by drilling 40 soil test borings, referenced herein as B-1 through B-40 drilled in scattered areas across the site. Soil test borings were extended to depths on the order of 30 and 35 feet below current site grades. An all-terrain vehicle (ATV)-mounted drill rig was utilized to drill the soil test borings. Subsurface explorations were completed under the general supervision of an ECS geotechnical engineer.

Boring locations were located in the field by ECS personnel using GPS techniques or by taping from existing features prior to mobilization of our drilling equipment. The approximate as-drilled boring locations are shown on the Boring Location Diagrams, Sheet 2 of 3 and Sheet 3 of 3, located in Appendix A. Ground surface elevations noted on our boring logs were interpolated from published topographic information. No site survey was performed.

Standard penetration tests (SPTs) were conducted in the borings at regular intervals in general accordance with ASTM D 1586. Small representative samples were obtained during these tests and were used to classify the soils encountered. The standard penetration resistances obtained to provide a general indication of soil shear strength and compressibility.

3.2 REGIONAL/SITE GEOLOGY

Western Central Florida geologic conditions can generally be described in term of three basic sedimentary layers. The near-surface layer is primarily composed of sands containing varying amounts of silt and clay fines. These sands are underlain by a layer of clay, clayey sand, phosphate, and limestone which are locally referred to as the "Hawthorn Group." The third layer underlies the "Hawthorn Group" and is composed of limestone. The thickness of these three strata varies throughout Central Florida. In general, the surficial sands typically extend to depths of 40 to 70 feet while the "Hawthorn Group" ranges from nearly absent in some locations to thicknesses greater than 100 feet. The limestone formation may be several thousand feet thick.

The groundwater hydrogeology of Western Central Florida can be described in terms of the nature and relationship of the three basic geologic strata. The near-surface sand stratum is fairly permeable and comprises the water table (unconfined) aquifer. The deep limestone formation of the Floridan aquifer is highly permeable due to the presence of large interconnected channels and cavities throughout the rock. The Floridan aquifer is the primary source of drinking water in Central Florida. These two permeable strata are separated by the relatively low permeability clays in the "Hawthorn Group." The amount of groundwater flow between the two aquifer systems is dependent on the thickness and consistency of the Hawthorn clay confining beds which, as previously stated, varies widely throughout Western Central Florida.

The following table below describes the generalized stratigraphic column of the general local geology and subsurface materials that may be associated with the geologic units also shown:

Table 3.2.1 Local Geology

Geologic Formation	Subsurface Materials
<u>Undifferentiated Sediments</u>	These sediments are buff colored to tan, unconsolidated to poorly consolidated, fossiliferous carbonate muds. Sand, silt, and clay may be present in limited quantities. These carbonates often contain organics.

Geologic Formation details for Table 3.2.1 obtained from the Florida Department of Environmental Protection website, http://www.dep.state.fl.us/geology/gisdatamaps/state-geo-map.htm

The following Figure 3.2.1 presents the regional geological map and approximate site location.

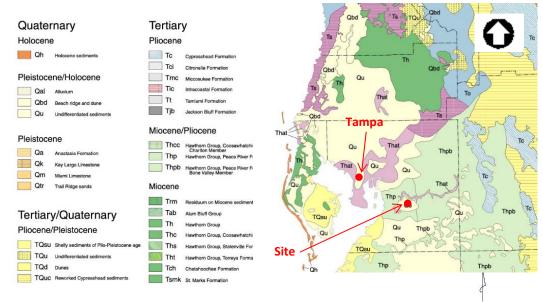


Figure 3.2.1 General Site Vicinity Geological Map

Geologic map for Figure 3.2.1 obtained from the Florida Department of Environmental Protection website, http://www.dep.state.fl.us/qeology/gisdatamaps/state-qeo-map.htm

3.3 SOIL SURVEY MAPPING

Based on the Soil Survey for Hillsborough County, Florida by the US Department of Agriculture Soil Conservation Service (USDA) the predominant predevelopment soil type at the site is identified and a summary of characteristics of this soil series is included below.

Table 3.3.1 Soil Survey

Soil Type	Constituents	Drainage Class	Water Table
29 – Myakka fine sand, 0 to 2 percent slopes	Fine sand	Poorly drained	About 6 to 18 inches
33 – Ona fine sand, 0 to 2 percent slopes	Fine sand	Poorly drained	About 6 to 18 inches
47 - Seffner fine sand, 0 to 2 percent slopes	Fine sand	Somewhat poorly drained	About 18 to 42 inches

Soil mapping of the site vicinity is presented in Figure 3.3.1 below, obtained from the USDA Web Soil Survey.



Figure 3.3.1: Site Soil Survey

3.4 SUBSURFACE CHARACTERIZATION

The subsurface conditions encountered were generally consistent with published geological mapping. The table below shows the general subsurface stratigraphy of the project site based on the soils that were encountered within the borings. The following sections provide generalized characterizations of the soil strata encountered during our subsurface exploration. For subsurface information at a specific location, refer to the Boring Logs and Cross Sections A-A' through E-E' located in Appendix B.

Table 3.4.1 Subsurface Stratigraphy

Approximate Depth Range (ft)	Approximate Elevation (ft) ⁽¹⁾	Stratum	Description	Ranges of SPT ⁽²⁾ N-values (bpf)
0-5 ft	EL. +125' to EL. +120'	I - Sandy Soils	(SP) Fine sand and (SP-SM) fine sand with silt, very loose to medium dense	2 to 17
5-22 ft	EL. +120' to El. +103'	II – Dense Silty Soils	(SP-SM) fine sand with silt and (SM) silty sand, loose to very dense	6 to 50/3
22-28 ft	EL. +103' to EL. +97'	III – Sandy Soils	(SP) Fine sand and (SP-SM) fine sand with silt, loose to medium dense	5 to 12
28-35 ft	EL. +97' to EL.+90'	IV – Clayey Soils	(SP-SC) Fine sand with clay, (CL) Sandy lean clay to Lean Clay with Sand, and (SC) clayey fine sand,	4 to 22

Notes: (1) Please note that the ground surface elevations were not surveyed by a licensed surveyor; these elevations are approximate based on Google-Earth; therefore; elevations described in this preliminary report may not be relied upon for site design. Elevations and depth should above should be considered average.

(2) Standard Penetration Test.

3.5 GROUNDWATER OBSERVATIONS

Water levels were measured in our borings as noted on the soil boring logs included in Appendix B. Groundwater depth at the time of drilling was encountered at depths on the order of three to five feet below current site grades. Variations in the long-term water table may occur as a result of changes in precipitation, evaporation, surface water runoff, construction activities, and other factors. The groundwater will fluctuate seasonally depending upon local rainfall. The rainy season in Florida is normally between June and September. Based upon our site-specific field data, our review of the USDA Soils Survey of Hillsborough County and the USGS topographic map of the area the expected regional hydrogeology and our experience in the area, we estimate the seasonal high groundwater levels at the boring locations to be approximately 18 inches above the encountered groundwater depth. The contractor should determine actual groundwater conditions prior to construction to evaluate their impact on the work. We have also included a table of water table readings and approximate elevations for the seasonal high water table included in Appendix C.

4.0 LABORATORY TESTING

The laboratory testing performed by ECS for this project consisted of selected tests performed on samples obtained during our field exploration operations. Classification and soil property tests were performed on representative soil samples obtained from the test borings in order to aid in classifying soils according to the Unified Soil Classification System and to quantify and correlate engineering properties. Laboratory tests performed on selected samples included grain size analysis tests and moisture content tests.

An experienced geotechnical engineer visually classified each soil sample from the test borings on the basis of texture and plasticity in accordance with the Unified Soil Classification System (USCS) and ASTM D-2488 (Description and Identification of Soils-Visual/Manual Procedures). After classification, the geotechnical engineer grouped the various soil types into the major zones noted on the boring logs located in Appendix B. The group symbols for each soil type are indicated in parentheses before the soil descriptions on the boring logs. The stratification lines designating the interfaces between earth materials on the boring logs are approximate; in situ, the transitions may be gradual.

5.0 PRELIMINARY DESIGN RECOMMENDATIONS

The recommendations presented in this preliminary report are based on the project information provided to us, our assumed structural loads, the results of the limited soil test borings, laboratory testing, and the engineering analyses. Based on the results of the soil borings, our experience with similar projects, it is our judgment that the site is suitable for the proposed development utilizing a foundation system consisting of spread footings for lightly loaded buildings, provided that the subgrade soils have been properly prepared, and the preliminary recommendations herein are followed. Once the final site plan is available, additional soil borings within the proposed building footprints should be performed in order to finalize our foundation recommendations.

If structural loads differ from our assumed loading conditions, ECS should be notified to update our report, verify bearing capacity and our settlement calculations. The following sections provide recommendations for foundation design and soil supported slabs. Additional borings may be needed once the final site plan is provided.

5.1 Preliminary Foundations

Based on our limited soil borings, the materials anticipated at normal footing depths below the proposed floor slabs should consist of sandy soils with fines (SP, SP-SM), with no roots and less than five percent organic content.

Once the final site plan is available, additional soil borings should be performed within the proposed building footprints to provide final foundation recommendations.

No structural information has been provided to us for the proposed development; however, we assumed the structural loads for lightly loaded buildings/residential structures are on the order of 30 kips and three kips/lf for columns and walls or less, respectively. We also assumed that final grades will be within three feet of existing elevations.

Based on our limited soil borings and provided subgrades and structural fills are prepared as discussed herein, the geotechnical analyses of the test boring data indicate that the lightly loaded residential homes may be supported by conventional shallow foundations consisting of individual column footings and continuous wall footings using a net allowable bearing pressure on the order of 2,000 psf to 2,500 psf.

5.2 STORMWATER MANAGEMENT AREAS

For proposed stormwater management areas we recommend, based on the encountered soils, the sideslopes of the pond embankments be no steeper than 2.5H: 1V. The embankments should be prepared in accordance with the recommendations in the sections entitled Subgrade Preparation and Earthwork Operations and Fill Placement.

Based on the borings performed during our limited exploration, please refer to the table below for estimated excavation depths in regards to soil suitability. It should be noted that due to the very dense soils encountered in Stratum II, excavation efforts may become more difficult, please refer to the subsurface profiles located in Appendix B.

Table 5.2.1 Soil Suitability Estimated Excavation Depths

	Бериіз		
Boring Designation	Estimated Excavation Depth (ft.)	Boring Designation	Estimated Excavation Depth (ft.)
B-1	33	B-21	27
B-2	33	B-22	33
B-3	33	B-23	33
B-4	33	B-24	27
B-5	33	B-25	27
B-6	35+	B-26	27
B-7	33	B-27	27
B-8	33	B-28	27
B-9	33	B-29	27
B-10	33	B-30	27
B-11	35+	B-31	27
B-12	33	B-32	27
B-13	33	B-33	27
B-14	35+	B-34	27
B-15	35+	B-35	27
B-16	27	B-36	27
B-17	33	B-37	27
B-18	33	B-38	22
B-19	33	B-39	27
B-20	33	B-40	22

Please refer to "Borrow Suitability" below for handling soils. If SC/SM soils are to be used as structural fill, they will require additional moisture conditioning and the contractor must be experienced in placing and compacting moisture sensitive soils to reach appropriate compaction.

5.3 SITE DESIGN CONSIDERATIONS

5.3.1 Pavement Sections

General Recommendations: Our scope of services did not include extensive sampling and LBR testing of existing subgrade or potential sources of imported fill for the specific purpose of a detailed pavement analysis. Instead, we have assumed pavement-related design parameters that are considered to be typical for the area soil types. The recommended pavement thicknesses presented in this preliminary report section are considered typical and minimum for the assumed

parameters in the general site area. We understand that budgetary considerations sometimes warrant thinner pavement sections than those presented. However, the client, the owner, and the project designers should be aware that thinner pavement sections may result in increased maintenance costs and lower than anticipated pavement life. We recommend the following pavement section designs:

Table 5.2.1.1 Pavement Structures Sections

	Asphalt	Concrete
Component	Light Duty	Light Duty
Stabilized Subgrade	12"	-
Base Course	6"	-
Surface Course	1.5"	5" (concrete)

All pavement subgrades should be prepared in accordance with the recommendations presented in the section entitled Earthwork Operations.

In areas where Portland cement concrete pavement is planned, the concrete should be placed upon a minimum of 12 inches of compacted, free draining material and compacted to 98% of the Modified Proctor maximum dry density (ASTM D-1557).

In areas where asphaltic concrete pavements are used, we suggest stabilizing the subgrade materials to a minimum Florida Bearing Value (FBV) of 75 pounds per square inch (psi). As an alternate for the FBV, materials can have a Limerock Bearing Ratio (LBR) of 40 percent. All stabilized subgrade materials should be compacted to 98 percent of the Modified Proctor (ASTM D-1557) maximum dry density and meet specification requirements for Type B or Type C Stabilized Subgrade by the Florida Department of Transportation (FDOT). The stabilized subgrade may consist of imported material or a blend of on-site soils and imported materials. If a blend is proposed, we recommend that the contractor performs a mix design to find the optimum mix proportions.

Base Course: ECS anticipates that crushed concrete or limerock may be used for this project. Crushed concrete should follow the FDOT specification for material qualifications and placement. The base material (crushed concrete or limerock) should be placed in maximum sixinch lifts and compact to a minimum density of 98 percent of the Modified Proctor maximum dry density according to specification in ASTM D-1557. Compliance testing should be performed for the base course to a depth of one foot at a frequency of one test per 5,000 square feet, or at a minimum of two test locations, whichever is greater.

Effects of Groundwater: One of the most critical influences on the pavement performance in Western Central Florida is the relationship between the pavement subgrade and the seasonal high groundwater level. Many roadways and parking areas have been destroyed as a result of deterioration of the base and the base/surface course bond. We recommend that the seasonal high groundwater and the bottom of the crushed concrete and soil cement base course be separated by at least 12 inches and 18 inches for limerock.

6.0 SITE CONSTRUCTION RECOMMENDATIONS

6.1 SUBGRADE PREPARATION

6.1.1 Subgrade Preparation, Stripping and Grubbing

Initial site preparation should consist of stripping soft or unsuitable material from the proposed site, including trees, organic soils, roots, and roots balls especially in the wetland area. The entire wetland should be properly remediated. Once the wetland has been remediated, the area should be clear of any encountered muck or organic soils. Deep muck pockets may be encountered within this area. Unsuitable material consists of soils with more than five percent organics content or more than 12 percent passing the No. 200 sieve. Any other soft or unsuitable materials should be removed from the 10-foot expanded building and five-foot expanded pavement limits. Additionally, any underground utilities or underground tanks that will not be part of the new construction should be properly capped and abandoned or removed. The subgrade preparation should also consist of complete removal of existing vegetation, including trees, roots, and organic soil.

ECS should be called to verify that topsoil and unsuitable surficial materials have been completely removed prior to the placement of Structural Fill or construction of structures.

6.1.2 Proofrolling

After removing all unsuitable surface materials, and prior to the placement of any structural fill or other construction materials, the exposed subgrade should be examined by the Geotechnical Engineer or authorized representative. The exposed subgrade should be compacted and then thoroughly proofrolled with previously approved construction equipment having a minimum axle load of 10 tons (e.g. fully loaded tandem-axle dump truck). The areas subject to proofrolling should be traversed by the equipment in two perpendicular (orthogonal) directions with overlapping passes of the vehicle under the observation of the Geotechnical Engineer or authorized representative. This procedure is intended to assist in identifying any localized yielding materials. In the event that unstable or "pumping" subgrade is identified by the proofrolling, those areas should be marked for repair prior to the placement of any subsequent structural fill or other construction materials. Methods of repair of unstable subgrade, such as undercutting or moisture conditioning should be discussed with the Geotechnical Engineer to determine the appropriate procedure with regard to the existing conditions causing the instability. A test pit(s) may be excavated to explore the shallow subsurface materials in the area of the instability to help in determined the cause of the observed unstable materials and to assist in the evaluation of the appropriate remedial action to stabilize the subgrade.

6.1.3 Subgrade Stabilization

Subgrade Compaction: Upon completion of subgrade documentation, the exposed subgrade within the 10-foot expanded building limits should be moisture conditioned to within two percentage points of the soil's optimum moisture content and be compacted with suitable equipment (minimum 10-ton roller) to a depth of 10 inches. Subgrade compaction within the expanded building limits should be to a dry density of at least 98 percent of the Modified Proctor maximum dry density (ASTM D1557). ECS should be called on to document that proper subgrade compaction has been achieved.

Subgrade Compaction Control: The expanded limits of the proposed construction areas should be well defined, including the limits for buildings, pavements, fills, and slopes, etc. Field density testing of subgrades will be performed at frequencies shown in Table 6.1.3.1.

Table 6.1.3.1 Frequency of Subgrade Compaction Testing

Location	Frequency of Tests	
Expanded Building Limits	One test per 2,500 sq. ft.	
All Other Structural Areas	One test per 10,000 sq. ft.	

6.2 EARTHWORK OPERATIONS

6.2.1 Structural Fill Materials

Unsatisfactory Materials: Unsuitable material typically consists of soils with more than five percent organics content or more than 12 percent passing the No. 200 sieve, as well as topsoil and organic materials (OH, OL). In some cases, soils with more than five percent organics content or more than 12 percent passing the No. 200 sieve may be used at depths greater than four feet below pavement subgrades.

Borrow Suitability: The following Engineered/Structural Fill types are recommended for use on this project:

Fine sand (SP) can be utilized as structural and pavement subgrade fill material provided that the natural moisture content is within a desirable range to obtain compaction.

Fine sand with silt (SP-SM) can be utilized as structural and pavement subgrade fill material provided that the natural moisture content is within a desirable range to obtain compaction. It should be noted that due to higher fines content, soil may be more sensitive to moisture and may require more handling.

Clayey fine sand (SC) and silty fine sand (SM) is more difficult to use as fill because they are more moisture sensitive. These soils may be used as structural fill but will require moisture conditioning.

Soils with organic content higher than five percent weight by volume should not be used as structural fill.

It is recommended that all materials to be used for Engineered Fill be analyzed and approved by the Geotechnical Engineer prior to their use on the site.

Subgrade soils disturbed by contractor operations shall be recompacted to the specifications of this preliminary report. Subgrade soils which are excessively wet but otherwise suitable by soil classification (inorganic soil material meeting the specifications above) are not considered unsuitable by definition and shall be moisture conditioned and recompacted.

6.2.2 Compaction

Structural Fill Compaction: Assuming that the organic content of the soils does not exceed 10 percent, structural fill should be placed in loose lifts, which do not exceed 12 inches in thickness, and should be compacted to at least 98 percent of the maximum dry density, as determined by the Modified Proctor Compaction Test (ASTM D-1557) within the lift thickness. Generally, the moisture content of the fill materials should be maintained between two percentage points below to the optimum moisture content for the fill material, as determined by ASTM D-1557. Fill placed in non-structural areas (e.g. grassed areas) should be compacted to at least 90 percent of the maximum dry density according to ASTM D-1557, in order to avoid significant subsidence. ECS should be called on to document that proper fill compaction has been achieved.

6.3 FOUNDATION AND SLAB OBSERVATIONS

Protection of Foundation Excavations: Exposure to the environment may weaken the soils at the footing bearing level if the foundation excavations remain open for too long a time. Therefore, foundation concrete should be placed the same day that excavations are made. If the bearing soils are softened by surface water intrusion or exposure, the softened soils must be removed from the foundation excavation bottom immediately prior to placement of concrete. If the excavation must remain open overnight, or if rainfall becomes imminent while the bearing soils are exposed, a one to three-inch thick "mud mat" of "lean" concrete should be placed on the bearing soils before the placement of reinforcing steel.

Footing Subgrade Observations: Most of the soils at the foundation bearing elevation are anticipated to be suitable for support of the proposed structure. It will be important to have the geotechnical engineer of record observe the foundation subgrade prior to placing foundation concrete, to confirm the bearing soils are what was anticipated. If soft or unsuitable soils are observed at the footing bearing elevations, the unsuitable soils should be undercut and removed. Any undercut should be backfilled with lean concrete ($f'_c \ge 1,000$ psi at 28 days) up to the original design bottom of footing elevation; the original footing shall be constructed on top of the hardened lean concrete.

Slab Subgrade Verification: A representative of ECS should be called on to observe exposed subgrades within the expanded building limits prior to Structural Fill Placement to assure that adequate subgrade preparation has been achieved. A proofrolling using a drum roller or loaded dump truck should be performed in their presence at that time. Once subgrades have been prepared to the satisfaction of ECS, subgrades should be properly compacted and new Structural Fill can be placed. Existing subgrades to a depth of at least 10 inches and all Structural Fill should be moisture conditioned to within -1/+3 percentage points of optimum moisture content then be compacted to the required density. If there will be a significant time lag between the site grading work and final grading of concrete slab areas prior to the placement of the subbase stone and concrete, a representative of ECS should be called on to verify the condition of the prepared subgrade. Prior to final slab construction, the subgrade may require scarification, moisture conditioning, and re-compaction to restore stable conditions.

6.4 UTILITY INSTALLATIONS

Utility Subgrades: The soils encountered in our exploration are expected to be generally suitable for support of utility pipes. The pipe subgrade should be observed and probed for stability by ECS to evaluate the suitability of the materials encountered. Any loose or unsuitable materials

encountered at the utility pipe subgrade elevation should be removed and replaced with suitable compacted Structural Fill or pipe bedding material.

Utility Backfilling: The granular bedding material should be at least 4 inches thick, but not less than that specified by the project drawings and specifications. Fill placed for support of the utilities, as well as backfill over the utilities, should satisfy the requirements for Structural Fill given in this preliminary report. Compacted backfill should be free of topsoil, roots, ice, or any other material designated by ECS as unsuitable. The backfill should be moisture conditioned, placed, and compacted in accordance with the recommendations of this preliminary report.

Excavation Safety: All excavations and slopes should be made and maintained in accordance with OSHA excavation safety standards. The contractor is solely responsible for designing and constructing stable, temporary excavations and slopes and should shore, slope, or bench the sides of the excavations and slopes as required to maintain stability of both the excavation sides and bottom. The contractor's responsible person, as defined in 29 CFR Part 1926, should evaluate the soil exposed in the excavations as part of the contractor's safety procedures. In no case should slope height, slope inclination, or excavation depth, including utility trench excavation depth, exceed those specified in local, state, and federal safety regulations. ECS is providing this information solely as a service to our client. ECS is not assuming responsibility for construction site safety or the contractor's activities; such responsibility is not being implied and should not be inferred.

7.0 CLOSING

ECS has prepared this preliminary report of findings, evaluations, and recommendations to guide geotechnical-related design and construction aspects of the project. Once the final project layout is completed, additional geotechnical exploration could be required to confirm our foundation recommendations and to prepare the final report accordingly.

If any of this information is inaccurate, either due to our interpretation of the documents provided or site or design changes that may occur later once project layout is completed, such as our assumed structural loads, ECS should be contacted immediately in order that we can review the preliminary report in light of the changes and provide additional or alternate recommendations as may be required to reflect the proposed construction.

We recommend that ECS be allowed to review the project's plans and specifications pertaining to our work so that we may ascertain consistency of those plans/specifications with the intent of the geotechnical report.

Field observations, monitoring, and quality assurance testing during earthwork and foundation installation are an extension of and integral to the geotechnical design recommendation. We recommend that the owner retains these quality assurance services and that ECS be allowed to continue our involvement throughout these critical phases of construction to provide general consultation as issues arise. ECS is not responsible for the conclusions, opinions, or recommendations of others based on the data in this preliminary report.

APPENDIX A – Drawings & Reports

Site Location Diagram Boring Location Diagram



Site Location Diagram

EISENHOWER PROPERTY GROUP



208 HOLDINGS RIVERVIEW PROPERTY

BALM RIVERVIEW ROAD AND COUNTY ROAD 672, BALM, FLORIDA

ENGINEER	
VTD	
SCALE	
1 " = 600 '	
PROJECT NO.	
41:2512	
SHEET	
1 OF 3	
DATE	

7/3/2019



Boring Location Diagram North

EISENHOWER PROPERTY GROUP



208 HOLDINGS RIVERVIEW PROPERTY

BALM RIVERVIEW ROAD AND COUNTY ROAD 672, BALM, FLORIDA

ENGINEER
VTD
SCALE
1 " = 200 '
PROJECT NO.
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2 OF 3

7/3/2019



Boring Location Diagram South

EISENHOWER PROPERTY GROUP



208 HOLDINGS RIVERVIEW PROPERTY

BALM RIVERVIEW ROAD AND COUNTY ROAD 672, BALM, FLORIDA

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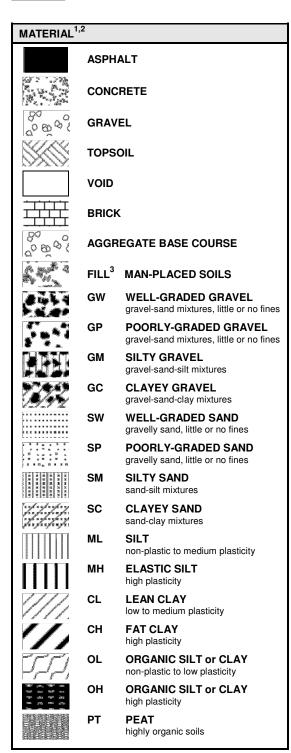
7/3/2019

APPENDIX B – Field Operations

Reference Notes for Boring Logs Boring Logs B-1 through B-40 Subsurface Soil Cross Section A-A', B-B', C-C', D-D', and E-E'



REFERENCE NOTES FOR BORING LOGS



	DRILLING SAMPLING	SYMB	OLS & ABBREVIATIONS		
SS	Split Spoon Sampler	PM	Pressuremeter Test		
ST	Shelby Tube Sampler	RD	Rock Bit Drilling		
WS	Wash Sample	RC	Rock Core, NX, BX, AX		
BS	Bulk Sample of Cuttings	REC	Rock Sample Recovery %		
PA	Power Auger (no sample)	RQD	Rock Quality Designation %		
HSA	Hollow Stem Auger				

	PARTICLE SIZE IDENTIFICATION			
DESIGNA	TION	PARTICLE SIZES		
Boulders	;	12 inches (300 mm) or larger		
Cobbles		3 inches to 12 inches (75 mm to 300 mm)		
Gravel:	Coarse	3/4 inch to 3 inches (19 mm to 75 mm)		
	Fine	4.75 mm to 19 mm (No. 4 sieve to ¾ inch)		
Sand:	Coarse	2.00 mm to 4.75 mm (No. 10 to No. 4 sieve)		
	Medium	0.425 mm to 2.00 mm (No. 40 to No. 10 sieve)		
	Fine	0.074 mm to 0.425 mm (No. 200 to No. 40 sieve)		
Silt & Cla	ay ("Fines")	<0.074 mm (smaller than a No. 200 sieve)		

COHESIVE SILTS & CLAYS			
UNCONFINED	_	7	
COMPRESSIVE	SPT ⁵	CONSISTENCY	
STRENGTH, QP4	(BPF)	(COHESIVE)	
<0.25	<3	Very Soft	
0.25 - <0.50	3 - 4	Soft	
0.50 - <1.00	5 - 8	Medium Stiff	
1.00 - <2.00	9 - 15	Stiff	
2.00 - <4.00	16 - 30	Very Stiff	
4.00 - 8.00	31 - 50	Hard	
>8.00	>50	Very Hard	

	>50	Very Hard	
&	NON-0	COHESIVE SILTS	
		DENSITY	
		Very Loose	
		Loose	
	N	Medium Dense	
		Dense	
		Very Dense	

RELATIVE AMOUNT ⁷	COARSE GRAINED (%) ⁸	FINE GRAINED (%) ⁸
Trace Dual Symbol (ex: SW-SM)	<u><</u> 5 10	<u><</u> 5 10
With Adjective (ex: "Silty")	15 - 20 <u>≥</u> 25	15 - 25 <u>≥</u> 30

	W	ATER LEVELS ⁶
$\overline{\underline{\Box}}$	WL	Water Level (WS)(WD)
-		(WS) While Sampling
		(WD) While Drilling
$\bar{\underline{\underline{w}}}$	SHW	Seasonal High WT
<u>▼</u>	ACR	After Casing Removal
$\overline{\Sigma}$	SWT	Stabilized Water Table
_	DCI	Dry Cave-In
	WCI	Wet Cave-In

GRAVELS, SANDS

SPT⁵

<5

5 - 10

11 - 30

31 - 50

>50

¹Classifications and symbols per ASTM D 2488-09 (Visual-Manual Procedure) unless noted otherwise.

²To be consistent with general practice, "POORLY GRADED" has been removed from GP, GP-GM, GP-GC, SP, SP-SM, SP-SC soil types on the boring logs.

³Non-ASTM designations are included in soil descriptions and symbols along with ASTM symbol [Ex: (SM**-FILL**)].

⁴Typically estimated via pocket penetrometer or Torvane shear test and expressed in tons per square foot (tsf).

⁵Standard Penetration Test (SPT) refers to the number of hammer blows (blow count) of a 140 lb. hammer falling 30 inches on a 2 inch OD split spoon sampler required to drive the sampler 12 inches (ASTM D 1586). "N-value" is another term for "blow count" and is expressed in blows per foot (bpf).

⁶The water levels are those levels actually measured in the borehole at the times indicated by the symbol. The measurements are relatively reliable when augering, without adding fluids, in granular soils. In clay and cohesive silts, the determination of water levels may require several days for the water level to stabilize. In such cases, additional methods of measurement are generally employed.

⁷Minor deviation from ASTM D 2488-09 Note 16.

⁸Percentages are estimated to the nearest 5% per ASTM D 2488-09.

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			Î		DESCRIPTION OF M	ATERIAL	ENGL	ISH UNITS	8		PLASTIC	v	VATER	LIQUID
	o i	YPE	IST. (II	<u>N</u>	BOTTOM OF CASING		LOSS OF CIRCULA	TION MX	VELS	(i)	LIMIT%	CO	NTENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)) VEF	SURFACE ELEVATION		(Approx.)	CHON Z	WATER LEVELS	ELEVATION (FT) BLOWS/6"	⊗ 5	STANDAR BL	RD PENETRA OWS/FT	TION
0	S-1	ss	24	24	Topsoil Thickne	ess [1.00"] ND, light brown to	a tan maiat ta			2 2	⊗-4			
_	3-1	33	24	24	wet, very loose		o tan, moist to	20 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	_	2 2 2				
_	S-2	SS	24	18					— — 12	2 3 3	5-🛇			
5 -	S-3	SS	24	24	(SP-SM) FINE light gray, wet,	TO MEDIUM SA very loose	AND WITH SILT	,	12 — —	1 1 1 1 1 1	⊗-2			
_	S-4	SS	24	18		SAND WITH SII ry loose to loose				1 5 7 10	⊗ 2: 12	1.9 ●		
_	S-5	SS	24	18					11	5 11 20 30				50
10										38				
_														
_					(SP-SM) FINE	TO MEDIUM SA	AND WITH SII T		<u> </u>					
	S-6	SS	18	9		et, medium dens		'	11 	0 9 9 12		, ×		
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_														
_									<u> </u>					
_	S-8	SS	18	14	(SP-SM) FINE grayish brown,	TO MEDIUM SA wet, loose	AND WITH SILT	,	10	0 5 5				
25 —	3-6		10	14					_	5	10			
_														
					(SP) FINE TO loose	MEDIUM SAND	, brown, wet,	377166						
_	S-9	SS	18	5					95	2	5-⊗			
30 —										3				
										C	BUNITNC	ED OI	N NEX	ΓPAGE.
		E STR	ATIFIC		LINES REPRESENT			BETWEEN	N SOIL T			ISITION M	AY BE GRAD	UAL.
<u></u> ₩L 4				ws 🗌	WD 🗵	BORING STARTED	06/19/19			CAV	E IN DEPTH			
₩ WL(S	HW)		<u> </u>	WL(AC	R)	BORING COMPLET				HAN	IMER TYPE Aut	to		
₩ wL						RIG ATV	FOREMAN	Matt C		DRII	LING METHOD	Mud Ro	tary	

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		I	<u> </u>		DESCRIPTION OF M	ATERIAL		ENGLISH	JNITS		1	PLASTIC	W	ATER	LIQUID
FT)	NO.	TYPE	SAMPLE DIST. (IN)	RY (IN)	BOTTOM OF CASIN	g T	LOSS	OF CIRCULATION	√ <u>>100%</u>	LEVELS ON (FT)	2".	LIMIT%		NTENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE	RECOVERY (IN)	SURFACE ELEVATION	n 124 feet	(Appr	ox.)		WATER LEVELS ELEVATION (FT)	BLOWS/6"	⊗ STA	ANDAR BLO	D PENETR/ DWS/FT	ATION
					(SP) FINE TO loose	MEDIUM SAND	, browr	n, wet,							
_ 						TO MEDIUM SA				<u> </u>	4				
_	S-10	ss	18	9	gray, wet, med fragments.	ium dense, with	phosp	hate			7 8	15-⊗			
35 —					END OF BORI	NG @ 35'									
_										_					
_										_					
_										85 					
40 —										_					
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		Щ	T. (IN)	<u> </u>	DESCRIPTION OF M	ATERIAL	E	NGLISH		SII E		PLASTIC LIMIT%		VATER NTENT%	LIQUID LIMIT%
(FT)	E NO.	ЕТУР	E DIS	ŒRY (BOTTOM OF CASING	G 🗶	LOSS OF CIR	CULATIO	N >100%	LEVE TION	.9/9	\times		•	$ \Delta$
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATION	125 feet	(Approx.)			WATER LEVELS ELEVATION (FT)	BLOWS/6"	8	STANDAF BL	RD PENETRA OWS/FT	TION
0 _	S-1	SS	24	24	Topsoil Thickn	ess [1.00"] ND, grayish brov	n moist ve	nv.	_	125	1 2	⊗–4			
_					loose			_	11111111	_	2 3				
_	S-2	SS	24	24	brownish gray,	TO MEDIUM SA moist, loose	AND WITH S	SIL I,		-	3 3 3	6-🛇			
5—	S-3	SS	24	24		TO MEDIUM So		SILT,			2 2	5-⊗			
								NI T		_	3 8 4				
_	S-4	SS	24	18	black, wet, loos	TO MEDIUM SA se to dense	AND WITH S	DILI,		-	4 4	8			
_	S-5	ss	24	18						_	9 9 12	0	2	27 ∽	
10 —	3-5	- 	24	10						 115	15 15		•		
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_	S-7	SS	18	5						_	8 12 13		25-⊗	<i>'</i>	
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<u></u> ₩L (5			ws 🗌	WD 🛛	BORING STARTED	06/19	/19			CAVE	IN DEPTH			
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					DESCRIPTION OF N	MATERIAL		ENGLISH (JNITS			PLASTIC	W	ATER	LIQUID
FT)	NO.	TYPE	SAMPLE DIST. (IN)	RY (IN)	BOTTOM OF CASIN	g 👅	LOSS OF C	CIRCULATION	√ <u>√100%</u> [-EVELS ON (FT)	3"	LIMIT%		TENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE	RECOVERY (IN)	SURFACE ELEVATI	ON 125 feet	(Approx)		WATER LEVELS ELEVATION (FT)	BLOWS/6"	⊗ st	ANDAR BLO	D PENETRA DWS/FT	ATION
					(SP) FINE TO loose to mediu	MEDIUM SAND Im dense), brown, v	vet,		_					
					(CL) LEAN CL wet, soft	AY WITH SAND), grayish (green,		_	1				
35 —	S-10	SS	18	18	•	D OF BORING @ 35'						⊗-3			
_					END OF BOR	ING @ 35'				_					
									E	_					
_										_					
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40 —										- 85					
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NORTHIN	IG			EASTIN	lG .	STATION					RQD% -		REC%	
					DESCRIPTION OF MA	ATERIAL	ENCLIS	H UNITS		ı	PLASTIC	10/0-	TED	HOUR
		Й	SAMPLE DIST. (IN)	<u>S</u>			ENGLIS	H UNITS	ELS (FT)		LIMIT%	CONT	TER ENT%	LIQUID LIMIT%
(FT)	NON I	ЕТУБ	E DIS	ERY	BOTTOM OF CASING		LOSS OF CIRCULAT	ON 200%	LEVE	.9/	×			$\overline{}$
ОЕРТН (FT)	SAMPLE NO	SAMPLE TYPE	AMPL	RECOVERY (IN)	SURFACE ELEVATIO	N 123 feet	(Approx.)		WATER LEVELS ELEVATION (FT)	BLOWS/6"	⊗ STA	NDARD BLOV	PENETRA VS/FT	TION
0 _	S	S	S	<u> </u>	Topsoil Thickne	ess [1.00"]			<u></u>	2				
_	S-1	SS	24	18	(SP) FINE SAN moist, loose	ID, tan to light b	rownish gray,			3 3	5-⊗			
_					1110101, 10000					3				
_	S-2	SS	24	24						3	6			
5-	S-3	SS	24	24		TO MEDIUM SA	AND WITH SILT,			1 1	⊗-2			
_									<u> </u>	1				
_	S-4	SS	24	24	(SP) FINE SAN loose to mediu		ayish brown, wet,			2 5 9	14 ⊗			
_									115	7 2				
_	S-5	SS	24	12						4	10-⊗			
10 —									_	6				
_									_					
_					(SP) FINE SAN	ID, grayish brow	n, wet, loose		<u> </u>					
_	S-6	SS	18	18					_	3 4 6	10-🔆			
15 —									_					
_					(SP) FINE TO I brown, wet, me	MEDIUM SAND	, trace silt,		 105					
_	S-7	SS	18	9	,,					5 8	10			
20 —	3-7		10	9						10	18-🛇			
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<u></u> ₩L 5	5			ws□	WD⊠	BORING STARTED	06/19/19		[CAVE	E IN DEPTH			
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208 H	oldir	gs	Riv	ervie	w Property									
SITE LOC											-O- CALIBR	ATED P	ENETROMET	ER TONS/FT ²
Balm NORTHIN	Rive ^G	rviev	<u>v R</u>	oad EASTIN	and County F	Road 672, Bastation	ılm, H	lillsborough	n County,	<u>FL</u>	ROCK QUAL			RECOVERY
			=		DESCRIPTION OF N	MATERIAL		ENGLISH	LINITS	<u> </u>	PLASTIC	v	VATER	LIQUID
(T:	NO.	TYPE	DIST. (IN		BOTTOM OF CASIN		LOSS	OF CIRCULATION			LIMIT%		NTENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATI	ON 123 feet	(App	rox.)	WATER LEVELS	BLOWS/6"	⊗ s	TANDAF BL	RD PENETRA' OWS/FT	ΓΙΟΝ
	0,	0,	- 0,		(SP) FINE TO loose	MEDIUM SAND), light	gray, wet,						
_					(CL) LEAN CL	AY WITH SANE), dark	gray, wet,	90	3				
35 —	S-10	SS	18	14	•		S. 			3 5	8-⊗			
_					END OF BOR	ING @ 35'			<u> </u>					
_									85					
40 —									_					
40 —														
_									<u> </u>					
									80					
_									<u> </u>					
45 —														
_									<u> </u>					
50 —														
_									_					
_									70					
_														
55 									<u> </u>					
_														
_									65					
60 —														
	ı İ	ı		1					I .	1	· · · ·	:	<u> </u>	
		OT5:	T.C.	N.T.O.	LINEO DESSESSIVE	THE ADDE COMME	- DC: ":	245741115255	WEEN 60 = :	DEO	0.171.1.71.17.77.11.17	NTIC:	W DE 05:-:	
<u></u> ₩L 5		SIRA		ws 🗌	WD⊠	BORING STARTE		06/19/19	WEEN SOIL TY		SITU THE TRANS	STION M	IAY BE GRADL	IAL.
₩ WL(SI	Ÿ WL(SHW) Ψ WL(ACR) BORING COM							06/19/19		HAM	MER TYPE Auto)		
₩ WL								FOREMAN Ma	att C.	DRIL	LING METHOD N	/lud Ro	otary	

CLIENT							Job #:	BORIN	G#		SHEE	T		
 Fisen	how	er P	ron	ertv (Group		41:2512		B-4		1 OF	2		
PROJECT	Γ NAME	<u> </u>	<u>. ၁</u>	J. Ly	<u> </u>		ARCHITECT-ENGINE	ER	۲- ت		, , , , ,			G S
208 H	loldir	ngs	Riv	ervie	ew Property									7√
			_								-O- CALIBE	RATED P	ENETROME	TER TONS/FT ²
NORTHIN	KIVE IG	rvie	<u>w F</u>	KOAC EASTIN	and County F	KOAD 672, BA STATION	lm, Hillsborou	gn Cou	inty, F	·L				& RECOVERY
											RQD%		REC%	
		=	(N)	2	DESCRIPTION OF M	IATERIAL	ENGLI	SH UNITS	SJ (F		PLASTIC LIMIT%		VATER NTENT%	LIQUID LIMIT%
(FT)	. NO.	: TYPE	DIST	ERY (II	BOTTOM OF CASING	G 🔀	LOSS OF CIRCULAT	10N \(\sqrt{100} \)	LEVE ION (F	.9.	×		•	$\overline{}$
ОЕРТН (FT)	SAMPLE NO.	SAMPLETYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATION	n 123 feet	(Approx.)		WATER LEVELS ELEVATION (FT)	BLOWS/6"	⊗ s	TANDAF BL	RD PENETRA OWS/FT	ATION
0	S-1	SS	24	24	Topsoil Thickn	ess [1.00"] TO MEDIUM SA	AND WITH SILT,			2 2 1	⊗–3			
_					dark gray, moi				_	1 WOH				
_	S-2	ss	24	18		se, with wood d			120 	WOH 1	≷ -1			
_						SAND WITH SI			<u> </u>	3 1 3				
5 —	S-3	SS	24	1	organics, gray,	, wet, loose, with	wood fragments	·	_	4 5	7-⊗			
	S-4	SS	24	18		TO MEDIUM Sobrown, wet, loos	AND WITH SILT,		_	2				
_				10					– – 115	5 12 12	8			
_	S-5	SS	24	18	brown, wet, de	NE TO MEDIUM nse	I SAND, dark			17 18			35 ⊗	
10 —										22				
-									_					
_								_	<u> </u>					
						TO MEDIUM Son to dark brown,	AND WITH SILT,		— 110 - —	5				
15 	S-6	SS	18	14	dense to dense		wot, modium			11 17		28-	\otimes	
_									_					
_														
_										13				
	S-7	SS	18	9					_	23 27				50->>
20 —														
_									_				/	
_									100 					
_	S-8	SS	18	9					_	7 13 17		3	0-8	
25 —									_	''			/	
									_					
<u> </u>					(OD) FINE OAA				_ 95					
_	S-9	SS	18	9	loose	ND, grayish brov	vn, saturated,			2 4	8-8			
30 —										4				
	. '	. '								CC	ONTINUE	D O	N NEX	T PAGE.
		E STR	ATIFIC	CATION	I LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINES E	BETWEEN S	SOIL TYP	ES. IN-	SITU THE TRAN	SITION M	IAY BE GRAD	DUAL.
<u></u> ₩L 4	4			ws□	WD 🖂	BORING STARTED	06/20/19			CAVE	IN DEPTH			
₩ WL(S	WL(SHW) ▼ WL(ACR) BORING COM						TED 06/20/19			HAMI	MER TYPE Aut	0		
₩L						RIG ATV	FOREMAN	Matt C.		DRIL	LING METHOD	Mud Ro	otary	

CLIENT							Job #:	BORING	#		SHEET		
Eisen	how	ar Di	on	orty (Group		41:2512		B-4		2 OF 2	, [
PROJECT	NAME	31 PI	ope	erty (Эгоир		ARCHITECT-ENGINE	ER	D-4		<u> </u>	- 	
208 H	oldir	ngs	Riv	ervie	ew Property								
SITE LOC	ATION					-					-O- CALIBRA	TED PENETRO	METER TONS/FT ²
Balm	Rive	rvie	ΝŖ	oad	and County I	Road 672, Ba	ılm, Hillsborou	gh Coun	ty, Fl	L	BOCK OTTALIT	V DESIGNATIO	ON & RECOVERY
NORTHIN	G		ľ	EASTIN	lG	STATION					RQD% -		:% ——
			Ê		DESCRIPTION OF N	MATERIAL	ENGLI	SH UNITS			PLASTIC	WATER	LIQUID
(FT)	NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	BOTTOM OF CASIN	G 🔀	LOSS OF CIRCULAT	ATER LEVELS	ELEVATION (FT)	9/	LIMIT%	CONTENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE	SAMPLE	RECOVI	SURFACE ELEVATI	on 123 feet	(Approx.)	WATER	ELEVAT	BLOWS/6"	⊗ STA	NDARD PENE BLOWS/FT	TRATION
					(SP) FINE SA loose	ND, grayish brov	vn, saturated,		-				
_					10056				-				
_					(SP-SC) FINE	TO MEDIUM SA	AND WITH CLAY	, ////	- 90	5			
_	S-10	ss	18	9	dark gray, wet fragments.	, medium dense	, with phosphate		-	10 8	18-⊗		
35 —					END OF BOR	ING @ 35'							
_													
_									-				
40 —									-				
_									-				
									-				
_									- 80				
_									-				
45 —									-				
									-				
									- 75				
50 —													
									_				
_									_				
									- 70				
_									-				
55 —									-				
_									-				
									-				
_									- 65				
_									-				
60 —									-				
_					1			 	-	l			
	THI	STRA	ATIFIC	CATION	I LINES REPRESENT	THE APPROXIMATE	E BOUNDARY LINES E	BETWEEN SO	IL TYPE	S. IN-	SITU THE TRANSIT	TION MAY BE G	RADUAL.
<u></u> ₩L 4				ws 🗌	WD⊠	BORING STARTED	06/20/19			CAVE	IN DEPTH		
₩ WL(S	HW)		<u></u>	WL(AC	ER)	BORING COMPLE	TED 06/20/19			HAMI	MER TYPE Auto		
₩ WL						RIG ATV	FOREMAN	Matt C.		DRILL	ING METHOD MI	ud Rotary	

CLIENT							Job #:	BORING #			SHEET	Т		
Fisen	how	er P	ron	ertv (Group		41:2512		8-5		1 OF 2	,		
PROJEC [*]	Γ NAME	<u> </u>	.υμ	orty '	Group		ARCHITECT-ENGINEE	ER L	,-0		1 01 2			58
208 F	loldir	ngs	Riv	ervie	ew Property									Tv
			_									TED PE	NETROMET	ER TONS/FT ²
Balm NORTHIN	Rive	rvie	<u>w F</u>	Road EASTIN	and County F	Road 672, Ba STATION	<u>lm, Hillsborou</u>	gh County	<u>/, FL</u>		ROCK QUALI	TY DESIG	GNATION 8	RECOVERY
											RQD% -		REC%	
			<u> </u>		DESCRIPTION OF M	ATERIAL	ENGLIS	H UNITS σ			PLASTIC LIMIT%		TER TENT%	LIQUID LIMIT%
F.	ON	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	BOTTOM OF CASING	a	LOSS OF CIRCULAT	WATER LEVELS	ELEVATION (FT)		X		●	
ОЕРТН (FT)	SAMPLE NO.	APLE.	/PLE	COVE	SURFACE ELEVATION	N 125 feet	(Approx.)	TERL	VATIC	BLOWS/6"	⊗ st	ANDARD	PENETRA	TION
ODE	SAN	SAN	SAN	RE			(, tbb.ov.)	_		1	:	BLO	WS/FT	:
_	S-1	ss	24	12			wet, very loose			2 (⊗ -4			
-					to loose					2 2				
_	S-2	SS	24	12				¥		2 3 3	\Rightarrow			
	0.0	00	0.4	40		ND, trace silt, gra	ayish brown, wet,			2				
5—	S-3	SS	24	12	very loose					1	⊗-4			
_	S-4	SS	24	24	(SM) SILTY FII brown, wet, me	NE TO MEDIUM edium dense	I SAND, dark			4 11 13		24 ⊗		
_										11 6				
_	S-5	SS	24	24						9 21		30-	\Diamond	
10 —								1	115	30				
-														
_								_						
_					(SP-SM) FINE dark brown, we		AND WITH SILT,			7				
_ 15 	S-6	SS	18	9	daik biowii, we	st, dense				14 21			35-⊗	
_														
_													\	
_														\setminus
_	S-7	SS	18	14						14 18 26			44	->>
20 —									105	20				
_														
<u> </u>					(OD) EINIE TO		***							
_	S-8	SS	18	9		MEDIUM SAND n, wet, medium (2 6	\otimes			
25 —								1		8	14			
_											/			
_														
-							AND WITH SILT,			1				
30 —	S-9	SS	18	9	dark brown, we	et, ioose					-⊗			
_									"	L	\i			
									(CON	ITINUE	O ON	NEXT	PAGE.
	TH	E STR	ATIFI	CATION	I LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINES B	ETWEEN SOIL	TYPES	. IN-SIT	U THE TRANSI	TION MA	Y BE GRADI	JAL.
¥ WL ;	3			ws□	WD 🖂	BORING STARTED	06/20/19		С	CAVE IN	I DEPTH			
₩ WL(S	HW)		<u>*</u>	WL(AC	ER)	BORING COMPLE	TED 06/20/19		Н	IAMME	R TYPE Auto			
₩ WL						RIG ATV	FOREMAN	Matt C.	В	RILLIN	G METHOD M	ud Rota	ary	

CLIENT							Job #:	BORING #		SHEET		
Eisen PROJECT	howe	er Pi	rop	erty (Group		41:2512	B-5	5	2 OF 2		
							ARCHITECT-ENGINEER	₹				
208 H	Oldir ATION	ngs	Riv	ervie	w Property					O CALIDDATI	ED DENETDONE	TED TONG/ET ²
Balm	Rive	rvie	w R	load	and County F	Road 672, Ba	ılm, Hillsboroug	h County,	FL	-O- CALIBRATI		
NORTHIN	G			EASTIN	iG -	STATION	-	-		ROCK QUALITY RQD%	DESIGNATION - REC%	
			<u> </u>	2	DESCRIPTION OF N	MATERIAL	ENGLISH		-	PLASTIC LIMIT%	WATER CONTENT%	LIQUID LIMIT%
(FT)	E NO.	E TYPE	E DIST	ERY (II	BOTTOM OF CASIN	G 🔀	LOSS OF CIRCULATION	N XWX NG	.9/	×	•	
ОЕРТН (FT)	SAMPLE NO.	SAMPLETYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATI		(Approx.)	WATER LEVELS	BLOWS/6"	⊗ STAN	NDARD PENETR BLOWS/FT	ATION
=					(SP-SM) FINE dark brown, w		AND WITH SILT,					
_					(SP-SC) FINE	TO MEDIUM SA	AND WITH CLAY,					
35 —	S-10	ss	18	9	fragments.		, with phosphate	90	3 9 11	20->)	
_					END OF BOR	ING @ 35'						
_												
40 —								85				
_												
- - - -												
_												
45 —								80				
_												
_												
50 —								75				
_												
55 								70				
_												
_												
60 —								65				
_												
		E STRA	ATIFIC	CATION	LINES REPRESENT	THE APPROXIMATE	E BOUNDARY LINES BE	TWEEN SOIL TY	PES. IN-	SITU THE TRANSITI	ON MAY BE GRAD	OUAL.
<u>¥</u> w∟ 3				ws 🗌	WD⊠	BORING STARTED	06/20/19		CAVI	E IN DEPTH		
₩ WL(S	HW)		<u>=</u>	WL(AC	R)	BORING COMPLE			НАМ	MER TYPE Auto		
₩ WL						RIG ATV	FOREMAN N	latt C.	DRIL	LING METHOD Muc	d Rotary	

CLIENT							Job #:	BORING #			SHEE	Т		
Fisan	how	Δr D	ron	ortv (Group		41:2512		3-6		1 OF	2		
PROJEC	T NAME	<u> </u>	Юр	<u>City</u>	Group		ARCHITECT-ENGINE		<u> </u>		1 01			G C
208 F	loldi	ngs	Riv	ervie	ew Property									170
SITE LOC											-O- CALIBR	ATED PI	ENETROME	TER TONS/FT ²
Balm NORTHIN	Rive	ervie	<u>w F</u>	COAD	and County F	Road 672, Ba	<u>ılm, Hillsborou</u>	gh County	<u>y, FL</u>		ROCK QUAI	ITY DES	SIGNATION	& RECOVERY
											RQD%		REC%	
			<u> </u>		DESCRIPTION OF M	ATERIAL	ENGLIS	H UNITS (0			PLASTIC		ATER	LIQUID LIMIT%
F	9	ΓΥPE	JIST.	N) X	BOTTOM OF CASING	3	LOSS OF CIRCULAT	ION XIII	E)		LIMIT%		NTENT%	
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATION	N 123 feet	(Approx.)	WATER LEVELS	ELEVATION (FT)	BLOWS/6"	⊗ s	TANDAR	D PENETR	ATION
0	SAI	SAI	SAI	Ä	Toposil Thicks					2		BL	OWS/FT	: :
	S-1	ss	24	24		SAND WITH SI				^ I	6-⊗			
_					slight roots, ora	angish brown, m ND, tan, moist, k	oist, loose oose			4 3				
-	S-2	SS	24	22	, ,				120	4 5 4	9-8			
		00				ND, trace clay, to	an, moist, loose,	 		3 4	7			
5—	S-3	SS	24	24	with gravel					3 4	7			78/10
_	S-4	ss	16	16		TO MEDIUM Sa prown, wet, very	AND WITH SILT, dense		2	12 28 0/4				70/10 Ø
_					J	, , ,			115	20				
_	S-5	ss	24	22					3	30 40				70-⊗
10 —									4	14				
_	1													
_	1				(SM) SILTY FI	NE SAND, black	k, wet, very dense							
_									110	22				
15 —	S-6	SS	18	16					3	30 36				66-⊗
-	1				(SD_SM) FINE	TO MEDILIM S	AND WITH SILT,							
_						prown, wet, med			105			_ /		
_	S-7	SS	18	11					·	4 7	\$			
20 —									'	10				
_														
_					(SP) FINE TO brown, wet, loc	MEDIUM SAND), brown to light	_	100					
_	S-8	SS	18	14	,,					3 4	8-8			
25 —	3-0	33	10	14				_		4				
_														
-	1													
-	1							9	95	2				
	S-9	SS	18	13						3 5	8-🛇			
30 —										L				
										100	NTINUE	D OI	N NEX	T PAGE.
		E STR	ATIFI	CATION	I LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINES B	ETWEEN SOIL	TYPES.	IN-SI	TU THE TRAN	SITION M	AY BE GRAD	DUAL.
¥ WL 4	4			ws 🗌	WD 🛚	BORING STARTED	06/21/19		C.	AVE II	N DEPTH			
₩ WL(S	SHW)		<u></u>	WL(AC	R)	BORING COMPLE	TED 06/21/19		Н.	AMME	R TYPE Aut	o		
₩ wL						RIG ATV	FOREMAN	Matt C.	D	RILLIN	NG METHOD	Mud Ro	tary	

CLIENT							Job #:		BORING #		SHEET			
Eisen	howe	er Pr	m	ertv (Group		4	1:2512	B-6	3	2 OF 2	,		
PROJECT	NAME	<u> </u>	Op	orty (этоир		ARCHIT	ECT-ENGINEER	<u> </u>	,	1 201	_		US I
208 H	oldir	ngs	Riv	ervie	w Property								1_	7~
											-O- CALIBRA	TED PE	NETROME	TER TONS/FT ²
Balm NORTHIN	Rive ^G	<u>rvie</u>	<u>w R</u>	oad EASTIN	and County F	Road 672, Bastation	<u>ılm, H</u>	<u>illsborough</u>	<u>County,</u>	<u>FL</u>	ROCK QUALI' RQD% -		IGNATION 8	
			<u>-</u>		DESCRIPTION OF N	MATERIAL		ENGLISH (JNITS	1	PLASTIC	W	ATER	LIQUID
(T=	NO.	TYPE	SAMPLE DIST. (IN)		BOTTOM OF CASIN		LOSS	OF CIRCULATION	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z		LIMIT%	CON	TENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE	RECOVERY (IN)	SURFACE ELEVATION	ON 123 feet	(Appr	ox.)	WATER LEVELS	BLOWS/6"	⊗ st	ANDAR BLO	D PENETRA DWS/FT	TION
_					(SP) FINE TO brown, wet, lo	MEDIUM SAND), browi	n to light						
					(SP) FINE TO	MEDIUM SAND osphate fragmer), dark nts	gray, wet,	90					
_	S-10	ss	18	16						3 3 3	6-⊗			
35 —					END OF BOR	ING @ 35'		,	_					
_									<u> </u>					
_									85					
_									<u> </u>					
40 —														
_														
									80					
45 —									—					
_									<u> </u>					
_														
50 —									<u> </u>					
_									70					
_														
55 —														
_									<u> </u>					
_									F					
									65					
60 —									<u> </u>					
_									F					
	THE	STRA	ATIFIC	CATION	LINES REPRESENT	THE APPROXIMATI	E BOUND	DARY LINES BET	WEEN SOIL TY	PES. IN	-SITU THE TRANSI	TION M	AY BE GRAD	UAL.
<u></u> ₩L 4				ws	WD⊠	BORING STARTE	D	06/21/19		CAV	E IN DEPTH			
₩ WL(S	HW)		<u></u>	WL(AC	R)	BORING COMPLE	TED	06/21/19		НАМ	MER TYPE Auto			
₩ WL						RIG ATV		FOREMAN Ma	att C.	DRIL	LING METHOD M	ud Ro	tary	

CLIENT							Job #:	BORING	G #		SHEE	Т		
 Fisen	how	er P	ron	ertv (Group		41:2512		B-7		1 OF	2		
PROJEC	Γ NAME		Юр	Oity	Group		ARCHITECT-ENGINEE	R	<u> </u>		1 101			G S
208 F	loldir	ngs	Riv	ervie	ew Property									₹~
			_								-O- CALIBR	RATED P	ENETROME	TER TONS/FT ²
Balm NORTHIN	Rive IG	rvie	<u>w F</u>	COAD EASTIN	and County R	Road 672, Ba	lm, Hillsboroug	gh Cour	nty, ⊦	L				RECOVERY
											RQD%		REC%	
			(N)		DESCRIPTION OF M.	ATERIAL	ENGLIS	H UNITS	ν c		PLASTIC LIMIT%		VATER NTENT%	LIQUID LIMIT%
l F	ON	TYPE	DIST.	RY (IN	BOTTOM OF CASING	—	LOSS OF CIRCULATI	ON 200%	EVEL ON (F	F_	X		•	
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATIO	N 123 feet	(Approx.)	- - -	WATER LEVELS ELEVATION (FT)	BLOWS/6"	⊗ s	TANDAR	RD PENETRA	TION
0	SAI	SAI	SAI	Ä.	∖Topsoil Thickno			111/1111	MA ELE	2	;	BL:	OWS/FT	:
_	S-1	SS	24	24	(SP) FINE SAN	ID, tan, moist, v	ery loose		_	1 2	⊗-3			
_					(SM) SILTY FII	NE TO MEDIUM	I SAND, orange		-	3				
-	S-2	SS	24	24	to grayish white loose	e, moist to wet, v	very loose to	_	- 120	3 3	5-⊗			
		00	0.4	0.4				Ŧ	/_	1				
5 -	S-3	SS	24	24					_	1 1	⊗–2		31.5	
_	S-4	SS	24	24		TO MEDIUM SA wet, very loose	AND WITH SILT,		_	1 2	⊗-3			
_	_						, orangish brown,		- 115	1 4 3				
_	S-5	ss	24	12	wet, medium d		, orangish brown,		_	6				
10 —									_	9	14			
_									_					
_									_					
_						TO MEDIUM SA	AND WITH SILT,		- 110	9				
15—	S-6	SS	18	9	dark brown, we	t, medium dens	e to very derise		_	11 14		25-⊗		
									_					
_									_					
_									- 105					
_	S-7	ss	18	14					_	14 28				54-8
20 —									_	26				
_									_					
_									_ _ 100					
<u> </u>	S-8	SS	18	14	(SP) FINE TO to light gray, w	MEDIUM SAND et, loose	, grayish brown	_	_	1	5			
25 —	3-0	33	10	14	0 0 7				_	2				
_									_					
_									_					
-								_	- 95	,				
	S-9	SS	18	9				_	_	2 3 2	5-🛇			
30 —									_					
										CC	ONTINUE	D O	N NEX	ΓPAGE.
	TH	E STR	ATIFI	CATION	I LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINES BI	ETWEEN SC	OIL TYP	ES. IN-	SITU THE TRAN	SITION M	IAY BE GRAD	UAL.
<u></u> ₩L 4	4			ws 🗌	WD⊠	BORING STARTED	06/20/19		T	CAVE	E IN DEPTH			
₩ WL(S	HW)		<u></u>	WL(AC	R)	BORING COMPLET	TED 06/20/19			HAM	MER TYPE Aut	0		
₩L						RIG ATV	FOREMAN	Matt C.		DRIL	LING METHOD	Mud Ro	otarv	

CLIENT							Job #:	BOR	ING#		SHEET			
Eisen PROJECT	howe	er Pi	rop	erty	Group		41:2512 ARCHITECT-ENGIN	EED	B-7		2 OF	2		Ca
			Div	onui	ow Proporty		ARCHITECT-ENGIN	ILLK						
SITE LOC	ATION	<u>igs</u>	KIV	ervie	ew Property						-O- CALIBR	ATED PEN	IETROME	TER TONS/FT ²
Balm NORTHIN	<u>Rive</u> ^G	<u>rvie</u>	<u>w F</u>	Road EASTIN	and County I	Road 672, Ba	alm, Hillsboro	ugh Co	unty, F	<u>.</u>	ROCK QUAL		NATION 8	RECOVERY
			<u> </u>	Π	DESCRIPTION OF N	MATERIAL	ENG	ISH UNITS			PLASTIC		TER	LIQUID
(L	NO.	TYPE	DIST. (RY (IN)	BOTTOM OF CASIN	IG 🔀	LOSS OF CIRCUL	ATION \(\sigma\)	EVELS ON (FT		LIMIT%	CONT	ENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATI	on 123 feet	(Approx.)		WATER LEVELS ELEVATION (FT)	BLOWS/6"	⊗ s1	ANDARD BLO	PENETRA VS/FT	TION
	0)	O)	0)	<u> </u>	(SP) FINE TO to light gray, v	MEDIUM SAND), grayish brown		> <u> </u>	ш				
	S-10	ss	18	14	(CL) LEAN CL wet, very soft	AY WITH SAND), greenish gray,		90	1 1	⊗-2			
35 —					END OF BOR	ING @ 35'				1				
_									_					
														
40 —									_					
									- - - 80					
45 									_					
_									_					
_														
									_					
50 —									E					
									70 -					
55 —														
_									65					
60 —														
	ı l			I	I				_	1		<u> </u>	<u>i i</u>	:
	THE	STR/	ATIFI	CATION	I LINES REPRESENT	Γ THE APPROXIMATI	E BOUNDARY LINES	BETWEEN	I SOIL TYP	ES. IN	-SITU THE TRANS	ITION MAY	BE GRAD	UAL.
<u></u> ₩L 4				ws 🗌	WD⊠	BORING STARTEI	D 06/20/19			CAV	E IN DEPTH			
₩ WL(S	HW)		<u></u>	WL(AC	CR)	BORING COMPLE	TED 06/20/19			HAM	MER TYPE Auto)		
₩ WL						RIG ATV	FOREMAI	Matt C.		DRIL	LING METHOD \	lud Rota	ry	

CLIENT						<u> </u>	Job #:	Ī	BORIN	NG#		SHEE	ΞT		
Fisen	how	er P	rone	≏rtv (Group		41:251:	,		B-8		1 OF	2		
Eisen PROJEC	Γ NAME	<u> </u>	·opt	orty (<u> Οι Ουί</u> ν		ARCHITECT-ENG			טיים		1 101			U S
208 F	loldir	ngs	Riv	ervie	ew Property						-				100
			_							_		-O- CALIBE	RATED P	ENETROME	TER TONS/FT ²
Balm NORTHIN	Rive	rvie	<u>w R</u>	COAD EASTIN	and County F	Road 672, Ba STATION	<u>lm, Hillsbor</u>	<u>ough</u>	<u>Co</u> L	unty, F	L				& RECOVERY
												RQD%		REC%	
			<u> </u>		DESCRIPTION OF M	ATERIAL	EN	GLISH L	JNITS	α E		PLASTIC LIMIT%		VATER NTENT%	LIQUID LIMIT%
F	NO.	TYPE	DIST.	RY (II	BOTTOM OF CASING	g T	LOSS OF CIRCL	JLATION	1 >100%	EVEL ON (F		X		•	
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATION	N 126 feet	(Approx.)			WATER LEVELS ELEVATION (FT)	BLOWS/6"	⊗ s	TANDAF BL	RD PENETR OWS/FT	ATION
0 _					\Topsoil Thickn						2 3	_			
-	S-1	SS	24	24	(SP) FINE SAN medium dense	ND, tan, moist to	wet, loose to			 125 	3	6-8			
_	S-2	SS	24	18							3 5 6	11-			
5 <u>-</u>	S-3	SS	24	24	(SP-SM) FINE orangish gray,	TO MEDIUM SA	AND WITH SI	LT,		<u> </u>	8 5 4	5-⊗			
	0-3		27	24			AND WITH OU	_		_ 120	2		00		
_	S-4	ss	24	18	orangish brown	TO MEDIUM SA n to dark brown,		_1,		_	5 10 12		22 ⊗		
					medium dense					<u> </u>	11 4				
_	S-5	SS	24	24						_	4 6 12	10			
10 —										 _ 115					
_										— 115 —					
_					(OD OM) FINE	TO MEDIUM SA		_		_					50/5
_	S-6	SS	5	1		et, loose, cemen		-',		_	50/5				×
15 —										_					
-	•														
_					(SP-SM) FINE	TO MEDIUM SA	AND WITH SI	_T,		_					
_	S-7	SS	18	14	dense	on brown, wet, ic	ose to media	''			7 12		24-8		
20 —	3-7	33	10	14							12		24-×		
										105 		/			
_										_					
_										_	2				
25 —	S-8	SS	18	18						_	3	6-⊗			
_										100					
_					(SP) FINE TO	MEDIUM SAND	, grayish brow	/n.							
-					wet, loose		, 0 ,			_	,				
	S-9	SS	18	14						_	2 3 3	6-🛇			
30 —										_					
											CC	ONTINUE	ED OI	N NEX	T PAGE.
		E STR			LINES REPRESENT				WEEN S	SOIL TYPI			ISITION M	IAY BE GRAI	DUAL.
¥ WL;				ws	WD ⊠	BORING STARTED	06/20/1	9			CAVE	IN DEPTH			
₩ WL(S	HW)		<u>=</u>	WL(AC	R)	BORING COMPLE						MER TYPE Aut			
₩ WL						RIG ATV	FOREM	an Ma	tt C.		DRIL	LING METHOD	Mud Ro	tary	

CLIENT							Job #:		BORING	#		SHEET			
Eisen	howe	∍r Pı	rone	⊃rtv (Group		41:25°	12		B-8		2 OF 2	,		
PROJECT	NAME	- 1 1 1	Орс	orty (эгоир		ARCHITECT-EN	IGINEER		<u>D-0</u>		7 201			G C
208 H	oldir	ngs	Riv	ervie	w Property										
SITE LOC												-O- CALIBRA	TED PE	ENETROME	TER TONS/FT ²
Balm NORTHIN	Rive ^G	<u>rvie</u>	<u>w R</u>	oad EASTIN	and County F	Road 672, Bastation	ılm, Hillsbo	<u>orough</u>	<u>Coun</u>	ity, F	L	ROCK QUALI RQD% -		REC%	& RECOVERY
					DESCRIPTION OF N	MATERIAL	E	NGLISH U	JNITS			PLASTIC	W	/ATER	LIQUID
FT)	NO.	TYPE	SAMPLE DIST. (IN)	:RY (IN)	BOTTOM OF CASIN	G 🔀	LOSS OF CIRC	CULATION	AT AMY	ON (FT)		LIMIT%		NTENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLETYPE	SAMPLE	RECOVERY (IN)	SURFACE ELEVATION	on 126 feet	(Approx.)		WATER	ELEVATION (FT)	BLOWS/6"	⊗ st.	ANDAR BL	D PENETR/ OWS/FT	ATION
					(SP) FINE TO wet, loose	MEDIUM SAND), grayish bro	wn,		- 95 -					
	C 10	ss	18	18	(CL) LEAN CL wet, firm	AY WITH SAND), greenish g	ay,		-	1	6 🛇			
35 —	S-10	55	18	18	END OF BOR	INC @ 25'				-	3	6-⊗			
					END OF BOK	ING @ 33			E	- 90					
_										-					
_									-	-					
40 —									_						
										- 85					
_										-					
										-					
_										-					
45 —										-					
									E	- 80 -					
_										-					
_										-					
50 —										-					
_									-	- 75					
_										-					
_										_					
55 										_					
_										- 70					
_										-					
_										-					
_										-					
60 —										-					
_				 					—	- 65			<u> </u>		
		STRA	ATIFIC	CATION	LINES REPRESENT	THE APPROXIMATI	BOUNDARY LI	NES BET\	WEEN SO	IL TYPE	S. IN-	SITU THE TRANSI	TION M	AY BE GRAD)UAL.
<u></u> ¥ w∟ 3				ws	WD 🗵	BORING STARTE	06/20	/19			CAVE	IN DEPTH			
₩ WL(S	HW)		<u>=</u>	WL(AC	R)	BORING COMPLE	TED 06/20	/19			HAMI	MER TYPE Auto			
₹ WL						RIG ATV	FORE	MAN M a	att C.		DRILI	LING METHOD M	ud Ro	tary	

CLIENT						I	Job #:	BC	ORING#		SHEE	T		
Fisen	how	er P	ron	≏rtv (Group		41:2512		В	. o	1 OF	: 2		
PROJEC [*]	Γ NAME	<u> </u>	·υμι	orty (Group		ARCHITECT-ENGI		<u>D.</u>	<u> </u>	1 101			G
208 F	loldir	ngs	Riv	ervie	ew Property						T		1.	7.
			_								-O- CALIBR	RATED P	ENETROME	TER TONS/FT ²
NORTHIN	Rive ig	rvie	<u>w R</u>	COAC EASTIN	and County F	Road 672, Ba	<u>lm, Hillsbord</u>	ough C	County	<u> </u>		LITY DES		& RECOVERY
			$\vec{\Box}$		DESCRIPTION OF M	ATERIAI	ENG	LISH UNI	те		PLASTIC		VATER	LIQUID
		PE	SAMPLE DIST. (IN)	<u>S</u>						E	LIMIT%		NTENT%	LIMIT%
H (FT)	SAMPLE NO.	SAMPLE TYPE	LEDIS	RECOVERY (IN)	BOTTOM OF CASING		LOSS OF CIRCUI	ATION ∑	WATER LEVELS	ELEVATION (FT) BLOWS/6"				_
ОЕРТН (FT)	SAMP	SAMP	SAMP	RECO	SURFACE ELEVATION	123 feet	(Approx.)		WATE	ELEVATIO BLOWS/6"	⊗ s	TANDAF BL	RD PENETRA OWS/FT	ATION
0 _	S-1	SS	24	22	Topsoil Thickn	ess [1.00"] ND, tan, moist to	wet very loss			2 2	⊗-4			
<u> </u>	0-1				to loose	VD, tail, moist to	wet, very 1003			2 2				
_	S-2	SS	24	22					12	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	7-&			
_						NE SAND, black	to dark brown		¥	3				
5—	S-3	SS	24	22	wet, loose to m	nedium dense				8 8 4	16-8)		
_	S-4	SS	24	22						3	10-\infty 21	.6-●		
_					(CD CM) FINE	TO MEDIUM SA		- 1993	1 ·	5 7 14 12				
_	S-5	ss	24	22	òrangish browr	n to dark brown,		١,		11 11		×		
10 —					dense					12		22:/		
_														
_												/		
_	S-6	SS	18	7						4 6	14-8			
15 —	0-0	00	10	'						8				
_														
_										_		\		
)5 4		\ <u></u>		
20 —	S-7	SS	18	11					_	8 12	20)-⊗		
_												/		
_						MEDIUM SAND	, trace silt,	- 1111	10	00 3				
25 —	S-8	SS	18	14	brown, wet, loc	ose				4 4	8-⊗			
<u> </u>					(SP) FINE TO	MEDIUM SAND	light grav							
_					saturated, loos		, ngm gray,		9!					
_	S-9	ss	18	16						3 6	9-🚫			
30 —														
										C	BUNITNC	ED O	N NEX	T PAGE.
		E STR	ATIFIC	CATION	I LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINE	S BETWE	EN SOIL T	YPES. IN	I-SITU THE TRAN	SITION M	IAY BE GRAD	UAL.
≟ WL 4	1			ws	WD 🖂	BORING STARTED	06/21/19)		CAV	'E IN DEPTH			
₩ WL(S	HW)		<u>*</u>	WL(AC	R)	BORING COMPLE	TED 06/21/19)		HAN	MER TYPE Aut	0		
₩L						RIG ATV	FOREMA	N Matt	C	DRII	LLING METHOD	Mud Ro	tarv	

CLIENT							Job #:	BOR	ING#		SHEET			
Eisenl PROJECT	OWE	er Pr	ор	erty (Group		41:2512 ARCHITECT-ENGIN	EED	B-9		2 OF 2	2		20
		ac	Div	onvio	w Proporty		ARCHITECT-ENGIN	EEK						
SITE LOCA	ATION	igs	KIV	ervie	ew Property						-O- CALIBRA	TED PENE	TROMET	ER TONS/FT ²
Balm I	Rive	<u>rvie</u> \	<u>w F</u>	Road EASTIN	and County I	Road 672, Ba	alm, Hillsboro	ugh Co	unty, F	<u>L</u>	ROCK QUALIT	TY DESIGN		RECOVERY
				Τ	DESCRIPTION OF M	MATERIAL	ENG	ISH UNITS			PLASTIC	WATI	≣R	LIQUID
(L:	Ö.	TYPE	DIST. (II	RY (IN)	BOTTOM OF CASIN	ig 👅	LOSS OF CIRCUL	ATION 2002	EVELS ON (FT)		LIMIT%	CONTE	NT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATI	on 123 feet	(Approx.)		WATER LEVELS ELEVATION (FT)	BLOWS/6"	⊗ st	ANDARD P BLOW	ENETRAT	TION
	0)	0)	0)	<u> </u>	(SP) FINE TO saturated, loos	MEDIUM SAND), light gray,		> <u> </u>	ш				
	2.12				(CL) LEAN CL wet, firm	AY WITH SAND), greenish gray,		90	2				
35 —	S-10	SS	18	18	END OF BOR	ING @ 35'			<u>-</u> -	3	5-⊗			
									_					
_									- 85					
40 —														
									80					
45 —									E					
									E					
_									75 75					
50 —														
									_					
55 —														
35 _									_					
\exists									— — — 65					
									<u> </u>					
60 —														
·	·	,						•						
		STRA	ATIFIC	CATION	I LINES REPRESENT	THE APPROXIMATI	E BOUNDARY LINES	BETWEEN	SOIL TYP	ES. IN-	-SITU THE TRANSI	TION MAY E	BE GRADU	AL.
₩ WL 4				ws	WD⊠	BORING STARTEI					E IN DEPTH			
₩ WL(SH	HW)		<u></u>	WL(AC	R)	BORING COMPLE		. Mo# ○			MER TYPE Auto	ud Data	,	
≟ Mr						RIG ATV	FOREMAI	Matt C.		DKIL	LING METHOD M	uu Kotary	/	

CLIENT						1	Job #:	BORING #	#		SHEET	<u> </u>		
		_			•									
Eisen PROJECT	NAME	er P	rope	erty (<u> Froup</u>		41:2512 ARCHITECT-ENGINE		<u>3-10</u>		1 OF 2	2		
SITE LOC	ATION	igs	KIV	ervie	w Property						O 0444004	TED DE1	IETDONIETE	TO TONO (FT?
Ralm	Rive	rvie	w R	nad	and County F	Road 672 Ba	lm Hillshorou	ah Coun	tv Fl		-O- CALIBRA	TED PEN	IETROMETE	ER TONS/FT
NORTHIN	G	VIC		EASTIN	IG	STATION	<u>lm, Hillsborou</u>	gir Oouri	Ly, I L	_	ROCK QUALIT			RECOVERY
											RQD% -		REC% -	
			<u> </u>		DESCRIPTION OF M	ATERIAL	ENGLI	SH UNITS			PLASTIC LIMIT%		TER ENT%	LIQUID LIMIT%
F	ō.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	BOTTOM OF CASING	g T	LOSS OF CIRCULA	WATER LEVELS	ELEVATION (FT)		X		D	
ОЕРТН (FT)	SAMPLE NO.	PLE T	PLE	OVER					ATIC	BLOWS/6"	⊗ st	ANDARD	PENETRAT	ION
	SAM	SAM	SAM	REC	SURFACE ELEVATION	n 123 leet	(Approx.)	WAT	ELE	BLO	₩ 31/		WS/FT	ION
0 _	S-1	SS	24	24	Topsoil Thickn	ess [1.00"] ND, light gray, m	voiet leges			2	6-⊗			
_	3-1	33	24	24	,				.	3 2				
_	S-2	SS	24	24		TO MEDIUM Sa moist to wet, lo	AND WITH SILT,		- 120	2	6-⊗			
_	02				,				.	3 2				
5 	S-3	SS	24	24		TO MEDIUM So wet, medium de	AND WITH SILT,	<u> </u>	.	1 3				
_					cemented.				.	14 20	17			
_	S-4	SS	24	24	(SP-SM) SANL dense, slightly	D WITH SILT, da cemented.	ark orange, wet,		-	10 18 22				
_					(CD CM) FINE	TO MEDILIM C	AND WITH SILT,		115	27			40	
_	S-5	SS	24	14	dark orange to	grayish brown,	wet, medium		-	10 11		21		
10 —					dense to dense	9			-	8				
-									-					
_									-					
_									- 110					
-	S-6	SS	18	7					-	16 22			40-8	
15 —									-	18				
_									-					
_					(SP) FINE TO	MEDIUM SAND	, orangish brown	, <u> </u>	-					
_					wet, dense				105	16				
_	S-7	SS	18	14					-	20 17			37-🛇	
20 —								_	-			/		
_									-					
_									400					
					(SP-SM) FINE grayish brown,		AND WITH SILT,		100	3	6			
25 —	S-8	SS	18	16	grayish brown,	WCt, 1003C			.	4 2	\otimes			
									.					
_					(00) =:::= = 0	==::::			.		\			
_					(SP) FINE TO medium dense		, light gray, wet,		- 95		\			
_	S-9	ss	18	14					.	2	11-⊗			
30 —	3-9		10	14					-	6				
_				l					ı		/:			
										CC	DNTINUE	אס כ	NEXT	PAGE.
	THI	E STR	ATIFIC	ATION	LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINES I	BETWEEN SOI	IL TYPES	S. IN-	SITU THE TRANSI	TION MAY	BE GRADU	AL.
<u></u> ₩L 4	i			ws□	WD 🖂	BORING STARTED	06/21/19			CAVE	IN DEPTH			
₩ WL(S	HW)		<u>=</u>	WL(AC	R)	BORING COMPLE	TED 06/21/19			HAMI	MER TYPE Auto	_		
₩ WL						RIG ATV	FOREMAN	Matt C.		DRILI	LING METHOD M	ud Rota	ıry	

CLIENT							Job #:	BORI	NG#		SHEET			
Eisen PROJECT	howe	er Pi	rope	erty (Group		41:2512		B-10)	2 OF	2	50	
							ARCHITECT-ENGINE	ER						
208 H	Oldir ATION	ngs	Riv	ervie	w Property						O CALIBBRA	ATED DENE	DOMET	TONG/FT ²
Balm	Rive	rvie	w R	oad	and County F	Road 672, Ba	ılm, Hillsborou	ıgh Co	unty, F	=L	-O- CALIBRA			
NORTHIN	G			EASTIN	iG -	STATION		-	-		ROCK QUALI RQD% -		ATION & REC% -	
		Ä	(NI)	1 1	DESCRIPTION OF M			SH UNITS	ELS (FT)		PLASTIC LIMIT%	WATE		LIQUID LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	VEF	BOTTOM OF CASIN		(Approx.)	<u>ΓΙΟΝ 200%</u>	WATER LEVELS ELEVATION (FT)	BLOWS/6"		ANDARD PE	NETRAT	ION
DEP.	SAM	SAM	SAM	REO			(Approx.)	1991 1991 19	WAT	BLO	₩ 31	BLOWS	/FT	
_					medium dense), light gray, wet,							
_), grayish green,		90	woh				
35 —	S-10	SS	18	16		phosphate fragn	nents.			2 2	⊗-4			
					END OF BOR	ING @ 35'			_					
_														
40 —														
_									_					
- - - -														
_														
45 —														
_									_					
_									_					
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50 														
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55 														
_									_					
_														
_														
-														
60 —														
	'	,		•				•		- '				
	THE	E STR	ATIFIC	CATION	LINES REPRESENT	THE APPROXIMATI	E BOUNDARY LINES	BETWEEN	SOIL TYF	PES. IN-	SITU THE TRANS	ITION MAY B	E GRADU	AL.
<u></u> ₩L 4				ws	WD 🖂	BORING STARTE					IN DEPTH			
₩ WL(S	HW)		<u>*</u>	WL(AC	R)	BORING COMPLE	TED 06/21/19			HAM	MER TYPE Auto	ı		
₹ WL						RIG ATV	FOREMAN	Matt C.		DRIL	LING METHOD [/	lud Rotary		

CLIENT							Job #:	BORING	G #		SHE	ET		
Fisen	how	er P	ron	≏rtv (Group		41:2512		B-11		10	F 2	<u> </u>	
PROJECT	Γ NAME	<u> </u>	<u>. υρ</u> ι	orty '	Group		ARCHITECT-ENGIN	EER	וו-ט		1 10	. 4		58
208 H	loldir	ngs	Riv	ervie	ew Property									100
											-O- CALIE	RATED P	ENETROMET	ER TONS/FT ²
Balm NORTHIN	Rive	rvie	<u>w R</u>	Load EASTIN	and County F	Road 672, Ba	<u>lm, Hillsboro</u>	<u>ıgh Cou</u> ı	nty, F	L		ALITY DES	SIGNATION &	
													112070	
		Е	NE)	<u> </u>	DESCRIPTION OF M	ATERIAL	ENGL	ISH UNITS	SJ E		PLASTIC LIMIT%		VATER NTENT%	LIQUID LIMIT%
(FT)	E NO.	ЕТҮР	E DIS	ERY (BOTTOM OF CASING	3	LOSS OF CIRCULA	TION \(\sigma_{002}\)	LEVE	9/	×		•	$\overline{}$
DEРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATION	n 125 feet	(Approx.)		WATER LEVELS ELEVATION (FT)	BLOWS/6"	\otimes	STANDAF BL	RD PENETRAT OWS/FT	TION
0 _	S-1	SS	24	24	Topsoil Thickn		h brown, moist t		125 —	1 2	6-⊗			
					wet, loose	ND, tail to grayis	ii biowii, moist t			4 5 5				
_	S-2	SS	24	24					<u> </u>	4 2 2	6-🛇			
5 —	S-3	SS	24	24	(SP-SM) FINE dark brown to o to dense	TO MEDIUM SA orangish dark br	AND WITH SILT own, wet, loose	, <u> </u>	- 120	2 3 4	7-8			
_	S-4	SS	24	17	to derise				<u> </u>	12 12 18			× ×	
_					(SP) FINE TO	MEDIUM SAND	, orangish browi) 1,	.	20 15 4	10		38	
10 —	S-5	SS	24	19	wet, loose				— — 115	6 8				
~									_					
_	1								-					
_					(SP-SM) FINE	TO MEDIUM SA	AND WITH SILT		_					
_	S-6	ss	18	9		et, medium dens			_	7 9 9	18			
15 —									- 110	9		\		
									_			\\		
_									_			\		
_	S-7	SS	18	9					_	6 10		22:⊗		
20 —									- 105	12				
_									_			/		
_									_					
=							AND WITH SILT	,	_	1				
25—	S-8	SS	18	14	grayish brown,	wet, very loose			— — 100	2 2	⊗ -4			
_					(OD) FINE TO	MEDILIM CAND	dab barana		_					
_					wet, loose	MEDIUM SAND	, grayish brown,	_	-		\			
_	S-9	SS	18	13					_	2 4	9-⊗			
30 —									95	5	Ĭ			
										CC	DNTINU	ED O	N NEXT	PAGE.
	TH	E STR	ATIFIC	CATION	I LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINES	BETWEEN SO	OIL TYP	ES. IN-	SITU THE TRA	NSITION M	IAY BE GRADU	AL.
<u>∓</u> WL 4	4			ws	WD 🖂	BORING STARTED	06/21/19			CAVE	IN DEPTH			
₩ WL(S	HW)		<u>*</u>	WL(AC	ER)	BORING COMPLE	TED 06/21/19			HAMI	MER TYPE Ma	anual		
₩ WL						RIG ATV	FOREMAN	Matt C.		DRIL	LING METHOD	Mud Ro	otary	

CLIENT							Job #:	BORIN	NG#		SHEET		
Eisen PROJECT	howe	er Pi	rope	erty (Group		41:2512		B-11		2 OF 2	2	-00
							ARCHITECT-ENGINE	ER					
208 H	Oldir ATION	ngs	Riv	ervie	w Property						O CALIBRA	TED DENETDO	METER TONG/ET ²
Balm	Rive	rvie	w R	load	and County F	Road 672, Ba	ılm, Hillsborou	gh Cou	unty, F	-L			METER TONS/FT ²
NORTHIN	G			EASTIN	iG -	STATION			-		ROCK QUALIT		ON & RECOVERY
		PE	ST. (IN)	(IIV)	DESCRIPTION OF M			SH UNITS	ELS (FT)		PLASTIC LIMIT%	WATER CONTENT%	LIQUID LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	V.EF	BOTTOM OF CASIN		LOSS OF CIRCULAT	10N <u>>100</u> 2>	WATER LEVELS ELEVATION (FT)	BLOWS/6"		ANDARD PENE	TRATION
	SA	SA	SA	RE	(SP) FINE TO wet, loose), grayish brown,			BL	\setminus	BLOWS/FT	
									<u> </u>				
	S-10	ss	18	13		MEDIUM SAND e, with phosphate), dark gray, wet, e fragments.			10 7 7	1.4-⊗		
35 					END OF BOR	ING @ 35'			 90 				
_													
									_				
40									85 				
- - - -									_				
_													
45 													
_									_				
_									_				
50 —									75 				
									_				
55 													
_									_				
									_				
60 —									65 				
								 		1		<u> </u>	<u> </u>
	THE	E STRA	ATIFIC	CATION	LINES REPRESENT	THE APPROXIMATE	E BOUNDARY LINES E	BETWEEN	SOIL TYP	ES. IN-	SITU THE TRANSI	TION MAY BE GI	RADUAL.
<u></u> ₩L 4				ws 🗌	WD⊠	BORING STARTED	06/21/19			CAVE	IN DEPTH		
₩ WL(S	HW)		<u>=</u>	WL(AC	R)	BORING COMPLE	TED 06/21/19			HAMI	MER TYPE Man ı	ıal	
₩ WL						RIG ATV	FOREMAN	Matt C.		DRIL	LING METHOD M	ud Rotary	

CLIENT							Job #:	BORIN	NG#		SHEET		
Fisen	how	er P	ron	≏rtv (Groun		41:2512		B-12		1 OF 2		
PROJEC	T NAME	<u> </u>	·υμ	orty (Group		ARCHITECT-ENGINE	ER	<u>∪-1Z</u>		1 1012		U C
208 F	loldii	ngs	Riv	ervie	ew Property								Tv
			_						_	_	-O- CALIBRATE	D PENETROME	TER TONS/FT ²
Balm NORTHIN	Rive	rvie	<u>w F</u>	Coad EASTIN	and County F	<u>Road 672, Ba</u> station	<u>lm, Hillsborou</u>	<u>igh Cou</u>	unty, F	L	ROCK QUALITY	DESIGNATION	& RECOVERY
											RQD%	REC%	
			(NE)		DESCRIPTION OF M	IATERIAL	ENGLI	SH UNITS	s c		PLASTIC LIMIT%	WATER CONTENT%	LIQUID LIMIT%
-F	o S	TYPE	DIST.	<u> </u>	BOTTOM OF CASING	g 👅	LOSS OF CIRCULAT	ΓΙΟΝ Σ100%	EVEL:	ŧ.	X	OONTENT 78	
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATION	ON 121 feet	(Approx.)		WATER LEVELS ELEVATION (FT)	BLOWS/6"	⊗ STANI	DARD PENETR	ATION
0	SAI	SAI	SAI	Ä	∖Topsoil Thickn		/	100000	WA)TB 5	: :	BLOWS/FT	: :
_	S-1	SS	24	24	(SP) FINE SAN	ND, trace silt, da	rk gray, moist,		120	8 9	17-⊗		
-					medium dense (SP) FINE SAN	e ND, grayish brov	vn, moist,		_	10 10			
_	S-2	SS	24	24	medium dense)				10 10 9	20-⊗		
5—	S-3	SS	24	24	(SM) SILTY FI	NE TO MEDIUM lense to very de	I SAND, black,		=	10 9	18-⊗-		
	S-4	SS	5	5	wet, medium d	lense to very de	1130		_ 115	9 10 50/5	10 0		50/5=⊗
_	3-4	33		3					<u> </u>	30/3			30/3 🛇
_	_				(SP-SM) FINE	TO MEDIUM S	AND WITH SILT,		_	17			
_	S-5	SS	24	21		rown, wet, very			_	25 30 30			55−⊗
10 —									_	30			
-	1												
_									_				
<u> </u>			40	40					_	15			70 🛇
15 	S-6	SS	18	18					_	35 35			70-⊗
_									105				
_					(SP) FINE TO	MEDIUM SAND	, trace silt,						
_					brown, wet, de				_	11			
	S-7	SS	18	18					_	20 18		38-	
20 —									 100				
_					(OD) EINE OAN	15.1							
_					medium dense	ND, brown to ligh to very dense	nt gray, wet,		_				
-	S-8	ss	18	15					<u> </u>	5 7	14-8		
25 —									_	7			
_									 95 				
_									_				
			4.0							18			
30 —	S-9	SS	18	8					<u> </u>	33 32			65
	1			1	I			[:::::: <u>:</u>]	_	ו ו רר	NTINUED		T DAGE
	TH	E STR	ATIFI	CATION	I LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINES E	BETWEEN:	SOIL TYP				
<u></u> ₩L 4				ws 🗌	WD 🖂	BORING STARTED					IN DEPTH		
₩ WL(S			<u>*</u>	WL(AC	:R)	BORING COMPLE				HAMI	MER TYPE Manual		
₩L						RIG ATV	FOREMAN	Matt C.		DRILI	LING METHOD Mud	Rotarv	

CLIENT							Job #:	BOR	ING#		SHEET		
Eisen PROJECT	howe	er Pı	rope	erty (Group		41:2512		B-12	2	2 OF 2	<u>2</u>	
							ARCHITECT-ENGIN	EER					
208 H	Oldir ATION	igs	Riv	ervie	w Property						O ONLINDA	TED DENIETDON	™ TELED TONO/ET?
Balm	Rive	rvie	w R	oad	and County F	Road 672, Ba	ılm, Hillsboro	ugh Co	unty, F	-L			IETER TONS/FT ²
NORTHIN	G			EASTIN	G	STATION	,		<u>, , , , , , , , , , , , , , , , , , , </u>		ROCK QUALIT	TY DESIGNATION REC%	
			<u> </u>		DESCRIPTION OF N	MATERIAL	ENGL	ISH UNITS			PLASTIC LIMIT%	WATER CONTENT%	LIQUID LIMIT%
(FT)	NO.	TYPE	E DIST.	ERY (II	BOTTOM OF CASIN	G 🖿	LOSS OF CIRCULA	TION MOX	LEVEI ION (F	9,	×	•	\triangle
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATI	ON 121 feet	(Approx.)		WATER LEVELS ELEVATION (FT)	BLOWS/6"	⊗ st/	ANDARD PENETI BLOWS/FT	RATION
_						ND, brown to ligle to very dense	ht gray, wet,		90				
_					(01) 1 5 1 1 0 1	ANAMETI CAND		7777					
_	S-10	ss	18	17		phosphate fragn), greenish gray, nents			4 5	8		
35 —					END OF BOR	ING @ 35'			-	6	11		
									85 -				
_									_				
									_				
40 —									80				
- - - -													
									_				
45 													
									75				
_									<u> </u>				
_									_				
50 —													
									70				
_									_				
55 									<u> </u>				
									65				
									E				
60 —									_				
_									60				
V 14" 4		STRA					BOUNDARY LINES	BETWEEN	SOIL TYP			TION MAY BE GRA	ADUAL.
₩ WL(SI				WS WL(AC	WD ⊠ 	BORING STARTED BORING COMPLE					E IN DEPTH MER TYPE Man u	ıal	
≟ Mr(o	,		=	(,,,0	,	RIG ATV	FOREMAN	Matt C.			LING METHOD M		
						1					101		

CLIENT							Job #:	BORING	G #		SHEET		
Fisan	how	or D	ron	≏rtv (Group		41:2512		B-13		1 OF 2		
PROJEC	T NAME	<u> </u>	ιυμι	erty (Group		ARCHITECT-ENGINE	ER	D-13	•	I I UF Z		GC
208 F	loldir	ngs	Riv	ervie	ew Property								170
SITE LOC	CATION										-O- CALIBRATED	PENETROME	TER TONS/FT ²
Balm NORTHIN	Rive	rvie	<u>w R</u>	oad EASTIN	and County F	Road 672, Ba	lm, Hillsborou	gh Cou	<u>nty, F</u>	L	ROCK QUALITY D	ESIGNATION	& RECOVERY
											RQD%	- REC%	
			- Î		DESCRIPTION OF M	ATERIAL	ENGLI	SH UNITS			PLASTIC	WATER	LIQUID
	O.	/PE	SAMPLE DIST. (IN)	<u>S</u>	BOTTOM OF CASING		LOSS OF CIRCULA	-1041 (M8)	VELS N (FT)		LIMIT% C	CONTENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	LE DI	RECOVERY (IN)				ION Zwwy	WATER LEVELS ELEVATION (FT)	"9/S/	0.07.110		
DEPT	SAME	SAMF	SAMF	RECC	SURFACE ELEVATION	n 123 feet	(Approx.)		WATE	BLOWS/6"	⊗ STAND	ARD PENETR BLOWS/FT	ATION
0 _	S-1	ss	24	24	Topsoil Thickn	ess [1.00"] ND, tan, moist, n	nedium dense			2 5	11-⊗		
l <u>-</u>		00	27		(OI) I INL OAI	vD, tan, moist, n	nedidili delise		_	6			
_	S-2	SS	24	24					- 120	6 6 6	8		
_					(SM) SILTY FI	NE SAND, black	wet dense	<u>_</u>	- <u>7</u> =	5 16	12		
5 —	S-3	SS	24	24	(OW) OILTTT	TYL ON TYD, Black	t, wot, donoc		_	20 29			49=⊗
_						NE SAND, black	k, wet, dense,		_	20			
_	S-4	SS	24	24	cemented				-	20 29 15			49-⊗
_	S-5	SS	9	9	(SM) SILTY FI	NE SAND, black	k, wet, very dense			47 50/3			50/3-🜣
10 —									_				
_									_				
_					(OD OM) FINE	TO MEDIUM O	AND WITH OUT		-				
_					dark brown, we		AND WITH SILT,		- 110				
_	S-6	SS	10	10					- -	28 50/4			50/4-🔆
15 —													
-	1								_				
_					(SP) FINE TO orangish brown	MEDIUM SAND	, trace silt,		-				
_					orangish browi	i, wei, dense			— 105 - —	19			
20 —	S-7	SS	18	10					_	22 20		42	,×
_									_				
-					(SP) FINE SAN	ND. brown to ara	ayish white, wet,		<u> </u>				
_					medium dense	to very dense	, ,		- 100				
	S-8	ss	18	10					-	8 8 12	20-8		
25 —									_	-			
									_				
<u> </u>									- 95				
-	S-9	SS	18	13					_	19 30			
30 —									- -	47			77
	•			1	•			1		ָר ר	NTINUED (TDAGE
			A T/=:	247:0:		THE ADDROVAL ==	- POLINDADY WES		OII 77				
<u></u> ₩L 4		E STR	A HFI	ws 🗌	UNES REPRESENT WD ⊠			SE I WEEN S	OIL TYP		SITU THE TRANSITION	I MAY BE GRAD	JUAL.
			_			BORING STARTED					E IN DEPTH		
₩ WL(S	HW)		<u>+</u>	WL(AC	R)	BORING COMPLE					MER TYPE Manual		
₩ WL						RIG ATV	FOREMAN	Matt C.		DRIL	LING METHOD Mud	Rotary	

CLIENT							Job #:	BORING #		SHEET		
Eisenl PROJECT	า๐พ	er Pı	rope	erty (Group		41:2512	B-	13	2 OF 2	<u>. </u>	
							ARCHITECT-ENGINEE	ER				
208 H	Oldir ATION	igs	Riv	ervie	w Property					O OALIBDA	TED DENETRONE	TED TONO/ET?
l Balm∃	Rive	rvie	w R	oad	and County F	Road 672. Ba	ılm, Hillsboroug	ah Countv	. FL		TED PENETROME	
NORTHIN	G			EASTIN	G	STATION				ROCK QUALIT RQD% -	Y DESIGNATION — - REC%	
			Ê	l I	DESCRIPTION OF N	MATERIAL	ENGLIS	H UNITS σ	E	PLASTIC LIMIT%	WATER CONTENT%	LIQUID LIMIT%
FT)	Ö.	ТҮРЕ	DIST.	RY (II)	BOTTOM OF CASIN	G 👅	LOSS OF CIRCULATI	ON MOX NO	ON (F	X	•	
ОЕРТН (FT)	SAMPLE NO.	SAMPLETYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATI	on 123 feet	(Approx.)	NATER LEVELS	ELEVATION (FT) BLOWS/6"	⊗ STA	NDARD PENETRA BLOWS/FT	ATION
					(SP) FINE SA medium dense	ND, brown to gra	ayish white, wet,					
						·		90				
_	S-10	SS	18	15	(CL) LEAN CL slighty cement), gray, wet, stiff,	" <u> </u>	5 4			
35 —					END OF BOR	ING @ 35'			4	8		
_												
								8:	5			
_												
40 —												
								80				
_												
45 —												
								75	5			
_												
50 —												
								70				
55 —												
								69	5			
60 —												
_								 				
<u></u> ₩L 4		STRA		ws 🗌	UNES REPRESENT	THE APPROXIMATE BORING STARTED	BOUNDARY LINES BI 06/24/19	ETWEEN SOIL 1		I-SITU THE TRANSIT	TION MAY BE GRAD	UAL.
₩L 4				WL(AC		BORING COMPLE				MER TYPE Manu	al	
₩L						RIG ATV	FOREMAN I	Matt C.	+	LING METHOD Mu		
						<u> </u>						

CLIENT							Job #:	BORING #	#		SHEET		
Fisan	how	Δr D	ron	≏rtv (Group		41:2512		3-14		1 OF 2		
PROJEC	T NAME	<u> </u>	ıopı	orty '	Group		ARCHITECT-ENGINE	ER E	<i>J</i> − 1 4		1 1012		UC
208 F	łoldii	ngs	Riv	ervie	ew Property								- 1,∞
SITE LOC											-O- CALIBRAT	TED PENETROME	TER TONS/FT ²
Balm NORTHIN	Rive	rvie	<u>w R</u>	oad EASTIN	and County F	Road 672, Ba	ılm, Hillsborou	igh Count	ty, F	L_	ROCK QUALIT	Y DESIGNATION	& RECOVERY
											RQD% -	— - REC%	
			î		DESCRIPTION OF M	ATERIAL	ENGLI	SH UNITS	_		PLASTIC	WATER	LIQUID
_	<u>o</u>	YPE	SAMPLE DIST. (IN)	RECOVERY (IN)	BOTTOM OF CASING	a 3	LOSS OF CIRCULA	WATER LEVELS	ELEVATION (FT)		LIMIT%	CONTENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	PLED	OVER				R L	/ATIO	BLOWS/6"	Ø STA	NDARD PENETRA	MOITA
	SAM	SAM	SAM	REC	SURFACE ELEVATION		(Approx.)	WAT	-	_	W 017	BLOWS/FT	(IIIOI)
0 _	S-1	SS	24	24	Topsoil Thickn	ess [1.00"] SAND WITH SI	LT, dark orangisl		125	6	13-⊗		
<u>-</u>					brown, moist, r	nedium dense				7 6 8			
_	S-2	ss	24	24	(SP) FINE SAN	ID, tan, moist, n	nedium dense			8	16-⊗		
_					(SM) SILTY FI	NE SAND, black	k. wet. medium			10 8			
5—	S-3	SS	24	24	dense to very		-,,		120	9	17-⊗₋		
_										12 11 18			60
_	S-4	SS	22	22					•	42 50/4			\otimes
_	S-5	SS	24	21	(SP) FINE SAN	ND, orangish bro	own, wet, dense			14 22			50-⊗
10 —	3-3	33		21					115	28 20			30 🗴
	1												
_					(SD SM) FINE	TO MEDILIM S	AND WITH SILT,						
_							se to very dense						
-	S-6	ss	18	17						25 13		30-⊗	
15 —									110	17			
-													
_									,				
_	<u> </u>									17			
20 —	S-7	SS	18	10					105	37 23			60-⊗
_	-												
					(SP) FINE SAN	ND, grayish brov	vn saturated						
_					very loose	, g,	, cata. a.c.a,				,		
-	S-8	ss	18	16						2 2 2	*		
25 —									100				
					(SP) FINE SAN	ND, light gray, w	et, very loose						
<u> </u>	6.0	66	40	1						1			
30 —	S-9	SS	18	4					95	2	⊗-4		
_	1	l I		1	1					ı l	NITINII ITT	ONINE	
											ONTINUED		
		E STR.	ATIFIC				E BOUNDARY LINES I	BETWEEN SOI	L TYPE			TION MAY BE GRAD	UAL.
¥ WL 4				ws	WD ⊠	BORING STARTED	06/24/19			CAVE	IN DEPTH		
₩ WL(S	SHW)		<u></u>	WL(AC	ER)	BORING COMPLE	TED 06/24/19			HAMI	MER TYPE Manu a	al	
₩ WL						RIG ATV	FOREMAN	Matt C.		DRILI	LING METHOD Mu	ıd Rotary	

CLIENT							Job #:		BORING #		SHEET			
Eisenl	howe	∍r Pı	m	⊃rtv (Group		⊿ 1·	2512	B-1	4	2 OF 2	,		
PROJECT	NAME	<u> </u>	Op	orty (этоир		ARCHITEC	CT-ENGINEER	<u> </u>		1 2012	_		G
208 H	oldir	ngs	Riv	ervie	w Property						1			
											-O- CALIBRA	TED PE	NETROME	TER TONS/FT ²
Balm NORTHIN	<u>Rive</u> ^G	<u>rvie\</u>	<u>w R</u>	oad EASTIN	and County F	Road 672, Bastation	ı <u>lm, Hill</u>	<u>sborough</u>	<u>County,</u>	<u>FL</u>	ROCK QUALIT		IGNATION 8	
			<u> </u>		DESCRIPTION OF M	ATERIAL		ENGLISH (JNITS	1	PLASTIC	w	ATER	LIQUID
-T)	NO.	TYPE	SAMPLE DIST. (IN)		BOTTOM OF CASIN		LOSS OF	CIRCULATION		ON (FI)	LIMIT%		ITENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE	RECOVERY (IN)	SURFACE ELEVATION	N 125 feet	(Appro	x.)	WATER LEVELS	ELEVATION (F1) BLOWS/6"	⊗ ST/	ANDARI BLC	D PENETRA DWS/FT	TION
_					(SP) FINE SAI	ND, light gray, w	et, very l	oose						
						MEDIUM SAND , with phosphate								
	S-10	ss	18	15					_	10 15 15		30	\Rightarrow	
35 —					END OF BOR	NG @ 35'			90	15				
_														
_														
40 —									85					
_									_					
_														
45 —									80					
50 —									75					
_														
_									<u> </u>					
55 									70					
_									_					
60 —									65					
_									\vdash					
	THE	STRA	ATIFIC	CATION	LINES REPRESENT	THE APPROXIMATI	E BOUNDAI	RY LINES BET	WEEN SOIL T	YPES. IN	-SITU THE TRANSI	TION MA	AY BE GRAD	UAL.
<u></u> ₩L 4				ws	WD⊠	BORING STARTE	00	6/24/19		CAV	E IN DEPTH			
Ψ WL(SI	HW)		<u>=</u>	WL(AC	R)	BORING COMPLE	TED 0	6/24/19		HAM	IMER TYPE Manu	ıal		
∰ WL						RIG ATV	F	FOREMAN Ma	ntt C.	DRIL	LING METHOD M	ud Rot	ary	

CLIENT							Job #:	BORING #			SHEE	Т		
Fisen	how	er P	ron	≏rtv (Group		41:2512	l R	-15		1 OF	2		
Eisen PROJECT	Γ NAME	<u> </u>	ıopı	orty (σισαρ		ARCHITECT-ENGINEE	R	<u>- 10</u>		1 101			UC
208 H	loldir	ngs	Riv	ervie	w Property								4	
SITE LOC											-O- CALIBR	ATED P	ENETROME	TER TONS/FT ²
Balm NORTHIN	Rive	rvie	<u>w R</u>	oad EASTIN	and County F	Road 672, Ba	ılm, Hillsboroug	h County	y, FL	-	ROCK QUAI	LITY DES	SIGNATION	& RECOVERY
				_,							RQD%		REC%	
			Î		DESCRIPTION OF M	ATERIAL	ENGLISH	H UNITS	Т		PLASTIC	v	VATER	LIQUID
		/PE	ST. (II	<u> </u>		. 🖜		ELS	(FT)		LIMIT%	CO	NTENT%	LIMIT%
H (FT)	LENG	LE T	LE DI	VERY	BOTTOM OF CASING		LOSS OF CIRCULATION	WATER LEVELS	ATION	.9/S/				_
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATION	n 125 feet	(Approx.)	WATE	ELEVATION (FT)	BLOWS/6"	⊗ s	TANDAF BL	RD PENETR OWS/FT	ATION
0 _					Topsoil Thickn				125	1 2	- 0			
	S-1	SS	24	22	(SP) FINE SAN	ND, tan, moist, l	oose			3 2	5-⊗			
_	S-2	SS	24	24	(SP) FINE SAN moist to wet, lo	ND, trace silt, br	ownish gray,			3	× .			
_	0-2	00	27	27						3	6			
5 -	S-3	SS	24	22		TO MEDIUM S. et, dense, ceme	AND WITH SILT, nted.		120	11 23				50∋⊗
_										27 24 12				
_	S-4	SS	24	22	wet, medium d), orangish brown,	_		10		$\otimes \subset$		
_					(SP-SM) FINE	TO MEDIUM S	AND WITH SILT,			14 8		21		44
_	S-5	SS	24	22		et, dense to very				18 26				$\stackrel{4}{\otimes}$
10 —									115	23				
_														
_														
_										18				\
	S-6	SS	16	4						18 50/4				68/10-🛇
15 —									110					
_														
_					(SP) FINE TO brown, wet, me	MEDIUM SAND edium dense), trace silt,							
_	S-7	SS	18	9	, ,			<u> </u>		4 5	11			
20 —	3-7		10	-				_	105	6	Ĭ			
_														
_														
_					(SP) FINE SAN	ND, brown, satu	rated, loose							
-	S-8	SS	18	11						1 2 3	5-🛇			
25 —									100					
_	1													
_				_	(SP) FINE TO grayish brown,	MEDIUM SAND wet_loose), trace gravel,			4				
30 —	S-9	SS	18	7	grayion brown,	Wot, 10000		_	95	2	5-⊗			
-	-							<u> :::::::</u>	ı	Į.				
									(CC	NTINUE	D O	N NEX	T PAGE.
	TH	E STR	ATIFIC	CATION	LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINES BE	TWEEN SOIL	TYPES	S. IN-S	SITU THE TRAN	SITION M	IAY BE GRAI	DUAL.
¥ WL 3	3			ws	WD 🖂	BORING STARTE	06/21/19			CAVE	IN DEPTH			
₩ WL(S	HW)		<u></u>	WL(AC	R)	BORING COMPLE	TED 06/21/19		H	HAMN	MER TYPE Auto	0		
₩ WL						RIG ATV	FOREMAN N	/latt C.	٦,	DRILL	ING METHOD	Mud Ro	otary	

CLIENT							Job #:	BORING	G#		SHEET		
Eisen PROJECT	howe	er Pi	rope	erty (Group		41:2512		B-15	<u> </u>	2 OF 2		
							ARCHITECT-ENGINE	ER .					
208 H	Oldir ATION	igs	Riv	ervie	w Property						O ONLIDDAT	ED DENETDOM	ETER TONO/ET?
Balm	Rive	rvie	w R	oad	and County F	Road 672, Ba	ılm, Hillsborou	gh Cou	nty, F	:L	-O- CALIBRAT		
NORTHIN	G			EASTIN	G	STATION			•		ROCK QUALITY RQD% —	Y DESIGNATION — – REC%	
			<u> </u>		DESCRIPTION OF N	MATERIAL	ENGLIS	H UNITS	si E		PLASTIC LIMIT%	WATER CONTENT%	LIQUID LIMIT%
(FT)	NO	TYPE	E DIST.	ERY (II	BOTTOM OF CASIN	G 🖿	LOSS OF CIRCULAT	ON >100%	LEVEI ION (F	.9,	×	•	Δ
ОЕРТН (FT)	SAMPLE NO.	SAMPLETYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATI		(Approx.)		WATER LEVELS ELEVATION (FT)	BLOWS/6"	⊗ STAI	NDARD PENETF BLOWS/FT	RATION
=					(SP) FINE TO grayish brown	MEDIUM SAND , wet, loose), trace gravel,		- - -		/		
_					(SP) FINE TO	MEDIUM SAND), light gray, wet,		-				
	S-10	ss	18	13	very dense, w	ith phosphate fra	agments.		_	18 39 31			⊗
35 —					END OF BOR	ING @ 35'			 90 				70
_									- —				
									<u>-</u>				
40 —									— - — 85				
_									-				
									- -				
									-				
45 —									— - — 80				
_									- -				
_									_				
_									<u>-</u>				
50 —									- 75				
_									- -				
									-				
									-				
55 —									- 70				
_									- -				
_									-				
_									_				
60 —									- 65				
_									_				
		STRA				THE APPROXIMATE	E BOUNDARY LINES B	ETWEEN S	OIL TYP	ES. IN-	SITU THE TRANSITI	ION MAY BE GRA	DUAL.
₩L 3				ws 🗌	WD⊠	BORING STARTED	06/21/19			CAVE	IN DEPTH		
₩ WL(S	HW)		<u>=</u>	WL(AC	R)	BORING COMPLE					MER TYPE Auto		
₩ WL						RIG ATV	FOREMAN	Matt C.		DRIL	LING METHOD Mu	d Rotary	

CLIENT							Job#:	BORING #		SHEET				
	how	or D	rone	arty (Group		41:2512	B-1	16	1 OF 1				
Eisen PROJECT	Γ NAME	<u>eir</u>	lope	J ILY '	<u> Group</u>		ARCHITECT-ENGINEER	<u> </u>	10	<u> </u>		GC		
208 H	loldii	ngs	Riv	ervie	ew Property									
SITE LOC										-O- CALIBRATED	PENETROMET	TER TONS/FT ²		
Balm NORTHIN	Rive	rvie	<u>w R</u>	oad EASTIN	and County R	oad 672, Ba	lm, Hillsboroug	h County,	FL	ROCK QUALITY I				
		ш	(N)	<u> </u>	DESCRIPTION OF MA	ATERIAL	ENGLISH		Ē		WATER CONTENT%	LIQUID LIMIT%		
(FT)	E NO.	ЕТҮР	E DIST	ERY (BOTTOM OF CASING		LOSS OF CIRCULATION	N ∑000∑ NG) IION (×	•	$\overline{}$		
DЕРТН (FT)	SAMPLE NO.	SAMPLETYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATIO	N 122 feet	(Approx.)	WATER LEVELS	ELEVATION (FT) BLOWS/6"		OARD PENETRA BLOWS/FT	TION		
0	S-1	SS	24	24		SAND WITH SI	LT, dark brown,		5 5 5	10-⊗				
<u>-</u>	S-2	SS	24	24	moist, loose to	medium dense		12	0 6 6 7	13-⊗				
							AND WITH SILT,		8 6 7					
5—	S-3	SS	24	24	dark brown, we	t, medium dens	e to very dense		7 8 25	14-⊗		56		
_	S-4	SS	24	21				11	39		Į.	56		
<u>-</u>	S-5	SS	24	21					14 15 17		32			
10 —														
_														
_					(SP-SM) FINE wet, very dense		LT, dark brown,							
_	S-6	ss	18	10					30 37			70-8		
15 —									33					
-									_					
								10	5					
_	S-7	SS	18	16					40 35			70-⊗		
20 —	5-7			10					35			70 0		
_														
_					(SP) FINE SAN	D, brown, wet,	very dense	10	0					
_	S-8	SS	10	10					30			50/4−⊗		
25 —	0-0	00	10	10					50/4			30/4		
_					(CL) LEAN CL4	Y WITH SAND	, greenish gray,	95						
-					wet, stiff	VI WIIII O/ WED	, groomon gray,							
-	S-9	ss	18	18					7 7 7	 				
30 —					END OF BORI	NG @ 30'			'	14				
	TH	E STR	ATIFIC	CATION	I LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINES BE	TWEEN SOIL T	YPES. IN	-SITU THE TRANSITIO	N MAY BE GRAD	UAL.		
¥ WL 3	3			ws 🗌	WD ⊠	BORING STARTED	06/26/19		CAV	E IN DEPTH				
₩ WL(S	HW)		<u>=</u>	WL(AC	R)	BORING COMPLE	TED 06/26/19		HAM	MER TYPE Manual				
₩ WL						RIG ATV	FOREMAN N	latt C.	DRIL	LING METHOD Mud	Rotary			

CLIENT							Job #:	BORIN	G #		SHEET		
Fisen	how	er P	ron	ertv (Group		41:2512		B-17		1 OF 2		
PROJEC	T NAME	<u> </u>	ΙΟΡ	<u>City</u>	Group		ARCHITECT-ENGINE	ER	D-11		1 1012		GC
208 F	loldii	ngs	Riv	ervie	ew Property								
SITE LOC											-O- CALIBRATE	D PENETROME	TER TONS/FT ²
Balm NORTHIN	Rive	ervie	<u>w R</u>	Coad EASTIN	and County F	Road 672, Ba	lm, Hillsboroυ	<u>igh Cou</u>	ınty, F	L	ROCK QUALITY	DESIGNATION	& RECOVERY
											RQD%	REC%	
			(NI)	9	DESCRIPTION OF M	ATERIAL	ENGLI	SH UNITS	δ. <u>C</u>		PLASTIC LIMIT%	WATER CONTENT%	LIQUID LIMIT%
l F	o O	TYPE	DIST.	RY (II	BOTTOM OF CASING	g T	LOSS OF CIRCULA	ΓΙΟΝ Σ100 %	EVEL ON (F	F.	X	•	
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATION	n 124 feet	(Approx.)		WATER LEVELS ELEVATION (FT)	BLOWS/6"	⊗ STAN	IDARD PENETRA	ATION
0 _					Topsoil Thickn				-	3 6	12.0		
	S-1	SS	24	24	brown, moist, r	ND, light brown t nedium dense	o orangish		_	10 12	16-⊗		
- -	S-2	ss	24	24						10 5 6	11-🛇		
5—	S-3	ss	24	24	(SP-SM) FINE brown, moist to	SAND WITH SI	LT, grayish		— 120 — —	4 3 4 5	9-🛇		
<u>-</u>	S-4	ss	24	24		TO MEDIUM SA	AND WITH SILT, dense		 	7 1 2			
<u> </u>					,	,,			- - -	3 6 6 7	5		
10 —	S-5	SS	24	24					— 115 - — -	10 15	17		
-	1								_				
_													
_									<u> </u>	12			52 ⊗
15 —	S-6	SS	18	17					— 110 - —	12 40			\otimes
	1								_				
_	1				(OD OM) MEDI	LIM CAND WIT	LOUT deals						
_	1				brown, wet, ve	UM SAND WITH ry dense	1 SIL1, dark		-				
_	S-7	SS	18	17					- 105	18 35			85-∞
20 —										50			
_									_				
_						SAND WITH SI	LT, grayish		_				
_					brown, wet, me	edium dense			-	5	11		
25 —	S-8	SS	18	15						5			
									_				
_									_				
<u>-</u>					(SP) FINE SAN medium dense	ND, light brown,	saturated,		-				
_	S-9	SS	18	4					- 95	12 16		28-⊗	
30 —				<u> </u>					- -	12			
	•	,	•	'	•			النقندين		CC	NTINUED	ON NEX	T PAGE.
	TH	E STR.	ATIFIC	CATION	I LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINES I	BETWEEN S	OIL TYP	ES. IN-	SITU THE TRANSITIO	ON MAY BE GRAD	DUAL.
Ţ WL ;	5			ws	WD 🖂	BORING STARTED	06/27/19			CAVE	IN DEPTH		
₩ WL(S	SHW)		<u>*</u>	WL(AC	R)	BORING COMPLET	TED 06/27/19			HAMI	MER TYPE Manua l	l	
₩ wL						RIG ATV	FOREMAN	Matt C.		DRIL	LING METHOD Muc	l Rotary	

CLIENT							Job #:		BORING	G#		SHEET			
Eisen	how	ar Di	rone	arty (- -		/11	1:2512		B-17		2 OF 2	,		
PROJECT	NAME	<u> </u>	ope	sity (<u> </u>		ARCHITE	CT-ENGINEER		D-17		1 2012	-		GC 1
208 H	oldir	ngs	Riv	ervie	w Property										
SITE LOC	ATION											-O- CALIBRA	TED PE	NETROME	TER TONS/FT ²
Balm NORTHIN	Rive ^G	<u>rvie</u>	<u>w R</u>	oad EASTIN	and County F	Road 672, Bastation	<u>llm, Hi</u>	llsborougl	<u>1 Cou</u>	nty, F	L	ROCK QUALIT		IGNATION 8	
					DESCRIPTION OF N	MATERIAL			=						
F	Ŏ.	YPE	SAMPLE DIST. (IN)	l I	BOTTOM OF CASIN		LOSS C	ENGLISH OF CIRCULATIO		EVELS IN (FT)		PLASTIC LIMIT%		ATER ITENT%	LIQUID LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	AMPLE	VEF	SURFACE ELEVATI					WATER LEVELS ELEVATION (FT)	BLOWS/6"	⊗ STA	NDARI BLC	D PENETRA	ATION
	S	S	S	Δ.	(SP) FINE SA medium dense	ND, light brown,	saturate	ed,		<u>> ш</u> —	В	/			
<u> </u>						AY WITH SAND), green	ish gray,		- - -	3				
35 —	S-10	SS	18	18	wet, stiff					- 90 -	5 6	11-⊗			
35 —					END OF BOR	ING @ 35'									
_										_					
_										_					
															
40 —										_					
_										-					
										_					
_										- 80					
45 —										- -					
_										-					
										_					
_										_					
_										 75 -					
50 —										_					
										-					
_										_					
_										- 					
55 										_					
										-					
_										_					
_										_					
										 65 					
60 —										-					
		l		ı İ					ı F	_	ı l	!			
		STR	ATIFIC	CATION		THE APPROXIMATE			WEEN S	OIL TYPE	ES. IN-	SITU THE TRANSIT	ION MA	AY BE GRAD	UAL.
₩ w. 5				ws	WD 🖂	BORING STARTED		06/27/19				IN DEPTH			
₩ WL(SI	HW)		<u> </u>	WL(AC	R)	BORING COMPLE	TED (06/27/19				MER TYPE Manu			
∰ WL						RIG ATV		FOREMAN M	att C.		DRILI	LING METHOD MI	ud Rot	ary	

CLIENT							Job #:	BORING #	#		SHEET		
 Fisen	how	er P	ron	ertv (Group		41:2512	F	3-18		1 OF 2		
Eisen PROJEC	Γ NAME	<u> </u>	Юр	<u>orty</u>	Отоир		ARCHITECT-ENGINE	ER	<u> </u>		1 1012		US
208 F	loldi	ngs	Riv	ervie	ew Property					1			1~
			_) 1070 D					-O- CALIBRATE	ED PENETROME	TER TONS/FT ²
NORTHIN	IG IG	<u>ervie</u>	<u>w F</u>	COAC EASTIN	and County F	Koad 672, Ba STATION	<u>lm, Hillsborou</u>	gn Coun	<u>ty, ⊢L</u>	_	ROCK QUALITY	DESIGNATION	
		ш	r. (IN)	<u> </u>	DESCRIPTION OF M	ATERIAL	ENGLIS	SH UNITS SH UNITS	E I		PLASTIC LIMIT%	WATER CONTENT%	LIQUID LIMIT%
(FT)	E NO.	ЕТҮР	E DIS	ERY (BOTTOM OF CASING	G 🗶	LOSS OF CIRCULAT	ION MOX) NOI	9/	×	•	$\overline{}$
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATION	N 123 feet	(Approx.)	WATER LEVELS	ELEVATION (FT)	BLOWS/6"	⊗ STAN	NDARD PENETRA BLOWS/FT	ATION
0 _	S-1	SS	24	24	Topsoil Thickn	ess [1.00"] ND, light brown,	moist. medium	_		4 5 9	14-⊗		
_					dense		AND WITH SILT,		-	11 10			
_	S-2	ss	24	24		oist, medium de			- 120	5 6 6	11-🚫		
5 -	S-3	SS	24	21	(SP-SM) FINE light grayish, w		AND WITH SILT,			3 4	9-8		
_							AND WITH SILT,		-	5 5 2			
_	S-4	SS	24	21		et, loose to medi			-	3 3 3	6-8		
_	S-5	ss	24	19					- 115 -	6 7	14-×		
10 —									-	7 6			
_									-				
_									-				
_									- 110	10			
15 —	S-6	SS	18	16						10 10	20-⊗		
_									-				
_					(SP-SM) FINE	TO MEDIUM SA	AND WITH SILT,		-				
_					dark brown, we		,		105	25			
20 —	S-7	ss	18	16						25 30 40			70
									-				
_	1				(SP) FINE SAN	ND, trace silt, bro	own wet loose		-				
_					(01)1 1112 0/11	1B, trace ont, bro	5W11, WOL, 10000		- 100				
	S-8	ss	18	16					-	4 4 5	8		
25 —											9		
<u> </u>					(00) 50 50 40				-				
_					(SP) FINE SAN dense	ND, light brown,	wet, medium		- 95				
_	S-9	ss	18	2					-	13 15		31–⊗	
30 —									-	16			
										CC	NTINUED	ON NEX	T PAGE.
	TH	E STR.	ATIFI	CATION	I LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINES E	ETWEEN SOI	IL TYPES	S. IN-S	SITU THE TRANSITION	ON MAY BE GRAD	UAL.
¥ WL 4	4			ws□	WD 🖂	BORING STARTED	06/27/19			CAVE	IN DEPTH		
₩ WL(S	HW)		<u></u>	WL(AC	R)	BORING COMPLE	TED 06/27/19			HAMN	MER TYPE Manua	l	
₩ WL						RIG ATV	FOREMAN	Cody H.		DRILL	ING METHOD Muc	d Rotary	

CLIENT							Job #:		BORING #		SHEET	-		
Fisent	าดพล	r Pr	one	≏rtv (Group		⊿	1:2512	B-1	8	2 OF	2		
Eisenh PROJECT	NAME	,1 1 1	Орс	orty v	Stoup		ARCHI	TECT-ENGINEER	<u> </u>	<u> </u>	1 201			US
208 H	oldin	gs l	Riv	ervie	w Property						<u></u>		1	
			_						.		-O- CALIBRA	ATED P	ENETROME	TER TONS/FT ²
NORTHING	≺ive ₃	<u>viev</u>	<u>v R</u>	COAC EASTIN	and County I	Road 672, Bastation	alm, F	<u>Illisborougr</u>	County,	<u>FL</u>	ROCK QUAL RQD%			RECOVERY
					DESCRIPTION OF I	MATERIAL		ENGLISH		Τ	PLASTIC	v	VATER	LIQUID
(FT)	ON	TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	BOTTOM OF CASIN	ig 🔀	LOSS	OF CIRCULATION	WATER LEVELS		LIMIT%	CO	NTENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE	RECOVE	SURFACE ELEVATI	on 123 feet	(App	rox.)	WATER	BLOWS/6"	⊗ 81	ANDAF BL	RD PENETRA OWS/FT	TION
					(SP) FINE SA dense	ND, light brown,	wet, n	nedium						
					(CL) SANDV I	_EAN CLAY, gre	onich	grav wot	90					
	S-10	SS	18	17	stiff	LEAN CLAT, gre	CHISH	gray, wei,		4 4 5	9-⊗			
35 —					END OF BOR	ING @ 35'				5				
									85					
40 —														
									80					
45 —									_					
									75					
									<u> </u>					
50 —														
									_					
_														
									70					
55 														
									<u> </u>					
									65					
60														
									<u> </u>					
	'	'						'	•		·			
	THE	STRA	TIFIC	CATION	LINES REPRESENT	T THE APPROXIMAT	E BOUN	DARY LINES BET	WEEN SOIL TY	PES. IN-	SITU THE TRANS	ITION M	AY BE GRAD	UAL.
<u></u> ₩L 4				ws 🗌	WD 🖂	BORING STARTE		06/27/19			E IN DEPTH			
₩ WL(SH	HW)		<u>*</u>	WL(AC	R)	BORING COMPLE	TED	06/27/19		HAM	MER TYPE M an	ual		
≟ Mr						RIG ATV		FOREMAN Co	ody H.	DRIL	LING METHOD N	lud Ro	tary	

OLIENT							1.1.1/	Inopino #		- OUEET	
CLIENT							Job #:	BORING #		SHEET	
Eisen PROJECT	how	er P	rope	erty	Group		41:2512 ARCHITECT-ENGINE	<u>B-</u>	19	1 OF 2	- ECO
SITE LOC	IOIDII CATION	ngs I	Riv	ervie	ew Property						TV .
Dalas	D:		П		and Carrets F) C70 D-	les I lillahana	ala Carrati		-O- CALIBRATED F	PENETROMETER TONS/FT ²
NORTHIN	IG IG	ervie	W R	EASTIN	and County F	STATION	<u>lm, Hillsborou</u>	gn County	<u>, FL</u>		SIGNATION & RECOVERY
										RQD%	REC% ———
			<u> </u>		DESCRIPTION OF M	ATERIAL	ENGLIS	H UNITS (0			WATER LIQUID
	<u>o</u>	YPE	SAMPLE DIST. (IN)	RECOVERY (IN)	BOTTOM OF CASING	a —	LOSS OF CIRCULAT	WATER LEVELS	ELEVATION (FT) BLOWS/6"	LIMIT% CC	DNTENT% LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	PLE	OVER					ELEVATIO BLOWS/6"	Ø STANDA	RD PENETRATION
	SAM	SAM	SAM	REC	SURFACE ELEVATION		(Approx.)				LOWS/FT
0 _	S-1	ss	24	24	Topsoil Thickne	ess [1.00"] ID, orange to br	rownish gray	1:	25 2 5	10	
_	3-1	33	24	24	moist to wet, lo		ownish gray,		5 5	100	
_	S-2	SS	24	24				\Box	3 2		\otimes
_								<u> </u>	36 50		38
5—	S-3	SS	5	5	(SP) FINE SAN dense	ID, trace silt, gra	ay, wet, very	1	50/5		50/5
_								"			
_	S-4	SS	24	24		TO MEDIUM Sa et, medium dens	AND WITH SILT, se		4	13	
_									9 12		
l <u> </u>	S-5	SS	24	21	(SM) SILTY FII wet, medium d	NE TO MEDIUM ense	I SAND, black,		8 6 10	16-8	
10 —					•			1	15	\	
_										\	
l <u>-</u>					(00.011) 14501					\	
<u> </u>					(SP-SM) MEDI brown, wet, me	UM SAND WITI edium dense	H SILT, dark			 	
_	S-6	ss	18	8					15 11	22:⊗	
15 —	0-0	00	10					1	10 11		
_											
_					(SP-SM) FINE	TO MEDILIM S	AND WITH SILT,				
_					orangish browr	n, wet, medium	dense				
-	S-7	ss	18	17					8 8	17-🛇	
20 —								1	05 9	/	
_										/ /	
_					(SP) FINE SAN	ID, brown, wet,	loose			/	
-					,	, , ,				/	
_	S-8	ss	18	4					3 4	8-8	
25 —								1	00 4		
_										\	
_					(SP) FINE TO	MEDIUM SAND	, greenish gray,				
_							phate fragments				
_	S-9	ss	18	7					8	14-🔆	
30 —								9	5 6		
									C	ONTINUED O	N NEXT PAGE.
	TU	E STD	ΔΤΙΕΙΩ	'ΔΤΙΩ'	I I INES REDDESENT	THE ADDDOVIMATE	ROLINDARY LINES E	ETWEEN SOU		I-SITU THE TRANSITION N	
¥ wL 3		LOIK		ws 🗌	WD 🛛	BORING STARTEL		LI VVLLIN SUIL		/E IN DEPTH	WAT DE GIVADUAL.
									+		
₩ WL(S	orivv)		<u></u>	WL(AC	·r()	BORING COMPLE		0 1		MMER TYPE Manual	
₩ wL						RIG ATV	FOREMAN	Cody H.	DRII	LLING METHOD Mud R	otarv I

CLIENT							Job #:	BORI	NG#		SHEET		
Eisen PROJECT	howe	er Pı	rop	erty (Group		41:2512		B-19	ı	2 OF 2	<u> </u>	
							ARCHITECT-ENGINE	ER					
208 H	Oldir ATION	igs	Riv	ervie	w Property						O CALIDDA:	TED DENETDON	™ TONG/ET2
Balm	Rive	rvie	w R	oad	and County F	Road 672, Ba	ılm, Hillsborou	gh Co	unty, F	L			IETER TONS/FT ²
NORTHIN	G			EASTIN	iG -	STATION			-		ROCK QUALIT RQD% -	Y DESIGNATION — - REC%	
			<u>S</u>	1 1	DESCRIPTION OF N	MATERIAL	ENGLI	SH UNITS			PLASTIC LIMIT%	WATER CONTENT%	LIQUID LIMIT%
(FT)	E NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	BOTTOM OF CASIN	G 🔀	LOSS OF CIRCULAT	ION M	WATER LEVELS ELEVATION (FT)	.9/9	×	•	
ОЕРТН (FT)	SAMPLE NO.	SAMPL	SAMPL	RECO	SURFACE ELEVATI	on 125 feet	(Approx.)		WATEF	BLOWS/6"	⊗ STA	NDARD PENET BLOWS/FT	RATION
					(SP) FINE TO wet, medium of	MEDIUM SAND dense, with phos), greenish gray, phate fragments						
_					(OL) LEAN OL	ANAMETI CAND	\	7777	_				
_	S-10	ss	18	4	wet, stiff	AY WITH SAND), greenish gray,			4 5	10-⊗		
35 —					END OF BOR	ING @ 35'			90	5			
_									_				
_									_				
40 —									85 - -				
- - - -									_				
_									_				
45 —									80				
_									_				
50 									_ 75				
_									_				
_									_				
55 —									<u> </u>				
_													
									E				
_									<u> </u>				
60 —									65 				
_									<u> </u>				
V		STRA					BOUNDARY LINES E	BETWEEN	SOIL TYP			TION MAY BE GRA	ADUAL.
¥ WL 3				WS WL(AC	WD⊠	BORING STARTED					IN DEPTH	al.	
₩ WL(SI	¬vv)		<u></u>	vvL(AC	r.)	BORING COMPLE	TED 06/27/19 FOREMAN	Cody L			MER TYPE Manu LING METHOD MU		
- AAL						VIG ATA	FUKEMAN	Couy H		DKIL	און עטחוםואיט אוניו	uu Nolaiy	

CLIENT							Job #:	BORING #	#		SHEET		
	havi	ar D	ro 10	orti (Craun								
PROJECT	NOW T NAME	er P	rop	erty	Group		41:2512 ARCHITECT-ENGINEE	I E	3-20		1 OF 2		
 208 ⊢	loldii	nas	Riv	ervie	ew Property								
SITE LOC	CATION	ı			• •						-O- CALIBRAT	ED PENETRO	METER TONS/FT ²
Balm	Rive	ervie	w F	load	and County F	Road 672, Ba	lm, Hillsborou	gh Count	ty, Fl	L	BOCK OTTALIT	V DESIGNATIO	ON & RECOVERY
NORTHIN	16			EASTI	NG S	STATION					RQD% -		5% ——
			(N		DESCRIPTION OF M	ATERIAL	ENGLIS	H UNITS 0			PLASTIC LIMIT%	WATER CONTENT%	LIQUID LIMIT%
F	Š.	ΓΥPE	JIST.	\ 	BOTTOM OF CASING	=	LOSS OF CIRCULAT	ION 2002	E) NC		X	CONTENT %	
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATION	n 127 feet	(Approx.)	NATER LEVELS	ELEVATION (FT)	BLOWS/6"	⊗ STA	NDARD PENE BLOWS/FT	
0 _	S	S	S	<u> </u>	∖Topsoil Thickn	ess [1.00"]		<u> </u>	Ш	<u>а</u> 3 5			
_	S-1	SS	24	24	(SP) FINE SAN dense	ND, light brown,	moist, medium		·	6	11-⊗		
_	S-2	ss	24	24		SAND WITH SI	LT, brownish		125	5 3 3	⊗ •	•	
_					(SP) FINE SAN	ND, gray, wet, ve	erv dense			4 40	6 19	.6	
5—	S-3	SS	17	17	(/	, g,,,	,	_		50 50/5			100/11
	S-4	SS	24	21		TO MEDIUM So	AND WITH SILT, se		120	5 5 10	15 ⊗		
_	1				(SM) SILTY FII	NE SAND, black	wet medium		,	10 10 8			
-	S-5	ss	24	21	dense	VL ONIVD, Diaoi	t, wet, mediam			10 9 15	19-\		
10 —									,	15			
									115				
_					(SP-SM) FINE brown, wet, me		LT, dark reddish		.				
<u> </u>	S-6	ss	18	6	, ,					12 13		28-🛇	
15 —				+						15		20 3	
_													
_									110				
_									'	5			
20 —	S-7	SS	18	17						5 6	11-🛇		
_	1				(SD) MEDILIM	SAND light bro	wn, wet, medium		105				
_					dense	OAIVD, light bro	wii, wet, illediaiii						
_	S-8	ss	18	4				_		6 7 7	14-⊗		
25 —									,	ĺ			
									100				
_						MEDIUM SAND , with phosphate		_	. 100				
_	S-9	SS	18	6		, FSp., av.	J	_		8	16−⊗		
30 —				+						8			
									•	CC	NTINUED	ON NE	XT PAGE.
	TH	E STR.	ATIFI	CATION	I LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINES B	ETWEEN SOII	L TYPE	S. IN-	SITU THE TRANSIT	ION MAY BE GI	RADUAL.
<u></u> ₩L 4	4			ws	WD 🖂	BORING STARTED	06/27/19			CAVE	IN DEPTH		
₩ WL(S	HW)		<u>_</u>	WL(AC	ER)	BORING COMPLE	TED 06/27/19			HAMI	MER TYPE Manu a	al	
∰ WL						RIG ATV	FOREMAN	Cody H.		DRILL	ING METHOD ML	ıd Rotary	

CLIENT							Job #:		BORII	NG#		SHEET			
Eisen	how	≥r Pr	m	≏rtv (Groun		4	11:2512		B-20		2 OF 2	,		
PROJECT	NAME	<u> </u>	<u>op</u>	CILY (σισαρ		ARCHI	TECT-ENGINEER	₹	D-20		1 2012			U C
208 H	oldir	ngs	Riv	ervie	ew Property										Tv
												-O- CALIBRA	TED PE	NETROME	TER TONS/FT ²
Balm NORTHIN	Rive G	<u>rvie</u>	<u>w R</u>	Coad EASTIN	and County F	Road 672, Bastation	ılm, F	Hillsboroug	h Co	unty, F	L	ROCK QUALIT		IGNATION REC%	
		T	_		DESCRIPTION OF N	MATERIAL		ENGLISH	LUNITS			PLASTIC	W	ATER	LIQUID
(F:	ON	TYPE	SAMPLE DIST. (IN)		BOTTOM OF CASIN		LOSS	OF CIRCULATION		EVELS ON (FT)		LIMIT%		ITENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE	RECOVERY (IN)	SURFACE ELEVATI	on 127 feet	(App	orox.)		WATER LEVELS ELEVATION (FT)	BLOWS/6"	⊗ st/	ANDAR BLO	D PENETRA DWS/FT	ATION
_					(SP) FINE TO medium dense	MEDIUM SAND e, with phosphat), gray e fragr	r, wet, ments		 95					
_					(CL) LEAN CL	.AY WITH SAND) aree	nish grav	7777	_					
_	S-10	ss	18	2	wet, stiff	AT WITH OANE	, gicc	mon gray,			6 5	10-⊗			
35 —					END OF BOR	ING @ 35'			////	 _	5				
										 90					
_										90 					
_										_					
40 —										_					
_										_					
															
_										_					
45 —										_					
_										-					
_															
_										_					
										_					
50 —															
_										_ 75					
_										_					
_										_					
55 —										_					
_										— –					
															
_										_					
60 —															
_										-					
	THE	E STRA	ATIFIC	CATION	LINES REPRESENT	THE APPROXIMATI	E BOUN	IDARY LINES BE	TWEEN	SOIL TYP	ES. IN-	SITU THE TRANSI	TION M	AY BE GRAD	DUAL.
Ų WL ∠				ws	WD⊠	BORING STARTE		06/27/19				E IN DEPTH			
Ψ WL(S	HW)		<u>=</u>	WL(AC	R)	BORING COMPLE	TED	06/27/19			HAMI	MER TYPE Man u	ıal		
₹ WL						RIG ATV		FOREMAN C	ody H		DRIL	LING METHOD M	ud Ro	ary	

CLIENT						ı	Job #:	BORING #		SHEET	- 1	
		_			•				- 4			
Eisen PROJECT	how I name	er P	rop	erty (Group		41:2512 ARCHITECT-ENGINEE	<u>I B</u> . ≅R	-21	1 0F	1	
200 🗆	اماطنا	200	Div	onuic	ow Proporty							
SITE LOC	CATION	igs	KIV	ervie	ew Property					O CALIDD	ATED DENETO	OMETER TONG/ET ²
l Balm	Rive	rvie	w F	oad.	and County R	Road 672 Ba	lm Hillsboroud	ah County	/ FI	-O- CALIBRA	ATED PENETR	OMETER TONS/FT ²
NORTHIN	iG	// ///		EASTIN	NG	STATION	lm, Hillsboroug	gri oddiitj	,, , <u> </u>	ROCK QUAL RQD%		ION & RECOVERY
			<u> </u>	Τ	DESCRIPTION OF M	ATERIAL	ENGLIS	H UNITS	I	PLASTIC	WATER	LIQUID
		ЪЕ	ST. (II	<u>Z</u>		. 🕳		ÆLS	<u>E</u>	LIMIT%	CONTENT	% LIMIT%
H (FT)	LE NO	LETY	LEDI	VERY	BOTTOM OF CASING	G <u> </u>	LOSS OF CIRCULAT	ON ZWZ	ATION S/6"	, ,		_
О DEPTH (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATION		(Approx.)	WATER LEVELS	25 ELEVATION (FT)		FANDARD PEN BLOWS/F	
	S-1	SS	24	24	Topsoil Thickner (SP) FINE SAN	ess [1.00"] ND, dark gray to	light grayish		125 1 3 3	6-8		
_					brown, moist to				4 5	· \		
_	S-2	SS	24	21				<u> </u>	5 5 8			
5—	S-3	SS	24	12	(SP-SM) FINE brown, wet, de	SAND WITH SI nse	LT, grayish	1	120 20 30)		50=⊗
				+	(SM) SILTY FII	NE SAND, dark	brown, wet, very		45 35	5		
_	S-4	SS	24	12	dense	•			40 42 49	2		82-🛇
	S-5	SS	17	17	(SP-SM) FINE wet, very dens	SAND WITH SI	LT, dark brown,		33 35	3		85/11−⊗
10 —					wot, very deno-	•		1	50. 115	/5		
_					(CM) CILTV MI	EDIUM SAND, b	lack wat van					
_					dense	EDIOWI SAND, L	nack, wet, very					
_	S-6	SS	18	9					30 40)		85-⊗
15 —								1	110			
_												
_					(SP-SM) MEDI	IUM SAND WITI	H SILT, black to					
_				-	dark brown, we	et, very dense			25	5		
20 —	S-7	SS	18	8					105 30			70-⊗
_					(05) 5115 041	15.1						
_					(SP) FINE SAN	ND, brown, wet,	dense					
_	S-8	SS	18	15					10 15	5	35-⊄	
25 —								1	100)		
-	1											
_	1					FINE TO MEDIL						
_				-	greenish gray, phosphate frag	wet, medium de iments	ense, with		7			
	S-9	SS	18	18	, ,	•			7	14-⊗		
30 —	1				END OF BORI	NG @ 30'			95 '			
	TH	E STR	ATIFI	CATION	I LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINES B	ETWEEN SOIL	TYPES.	IN-SITU THE TRANS	SITION MAY BE	GRADUAL.
¥ wr 3	3			ws□	WD 🖂	BORING STARTED	06/25/19		CA	VE IN DEPTH		
Ψ WL(S	HW)		<u>=</u>	WL(AC	CR)	BORING COMPLE	TED 06/25/19		HA	MMER TYPE M an	ual	
₹ WL						RIG ATV	FOREMAN (Cody H.	DF	RILLING METHOD 1	lud Rotary	

CLIENT						I	Job #:	BOF	RING#		SHEET		
Fisan	how	Δr D	ron	ortv (Group		41:2512		B-22)	1 OF 2		
PROJEC	T NAME	<u> </u>	ıop	CILY !	Group		ARCHITECT-ENGI		D- <u>ZZ</u>	_	1 1012		5
208 F	loldii	ngs	Riv	ervie	ew Property								TN
SITE LOC											-O- CALIBRATI	ED PENETROMET	ER TONS/FT ²
Balm NORTHIN	Rive	ervie	<u>w F</u>	COAD	and County F	Road 672, Ba	lm, Hillsbord	ough Co	ounty, F	<u>L</u>	ROCK QUALITY	/ DESIGNATION &	RECOVERY
											RQD% -	— – REC%	
			î		DESCRIPTION OF M	ATERIAL	ENG	LISH UNITS			PLASTIC	WATER	LIQUID
_	<u>o</u>	YPE	SAMPLE DIST. (IN)	RECOVERY (IN)	BOTTOM OF CASING	a 3	LOSS OF CIRCUI	ATION 500%	WATER LEVELS ELEVATION (FT)		LIMIT%	CONTENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	PLED	OVER				<u> </u>	ER LE	BLOWS/6"	MATS (X)	NDARD PENETRA	TION
	SAM	SAM	SAM	REC	SURFACE ELEVATION		(Approx.)			BLO	⊗ 31AI	BLOWS/FT	TION
0 _	S-1	SS	24	24	Topsoil Thickn	ess [1.00"] ND, white to gray	vish moist to w	/ et	125	6	12 . ⊗		
_					loose to mediu		,,		<u>-</u>	6 10 6			
_	S-2	SS	24	24					<u> </u>	4 2	6-⊗		
_					(SM) SILTY FI	NE SAND, dark	brown to black			3 1			
5 —	S-3	SS	24	24	wet, loose to m		brown to black		120	2 8	10-&		
_										14 4 6		26	
_	S-4	SS	23	23					<u> </u>	20 50/5		×	
_	2.5	00	0.4			SAND WITH SI	LT, dark reddis	h		24 18		200	
10 —	S-5	SS	24	24	brown, wet, de	nse			115	18 20		36-⊗	
_													
_					(OD OM) FINE	CAND WITH O	I T		<u> </u>			/	
_	1				brown, wet, me	SAND WITH SI edium dense	LI, dark reddis	n IIII	_				
-	S-6	SS	18	15					_	9 11	2	:5-⊗	
15 —									110	14			
<u> </u>	1												
_	1												
_										10			
20 —	S-7	SS	18	16					_ 105	13 15		28-⊗	
												\	
_	1				(SD SM) MED	UM SAND WITI	J CII T dork		<u> </u>				
_	1				reddish brown,		n Sili, uaik		_			\	
-	S-8	SS	18	15						11 18		33–⊗	
25 —									100	15			
-													
_						SAND, light bro	wn, wet, mediu	m			/		
					dense				E	7	_/		
30 —	S-9	SS	18	2					95	8 7	15-⊗		
-	4			1	l				i ⊢		<u> </u>		
										CC	ONTINUED	ON NEXT	PAGE.
		E STR	ATIFIC	CATION	I LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINE	S BETWEE	N SOIL TYF	ES. IN-	SITU THE TRANSITI	ON MAY BE GRADU	JAL.
<u></u> ₩L;	3			ws 🗌	WD 🖂	BORING STARTED	06/26/19)		CAVE	IN DEPTH		
₩ WL(S	SHW)		<u>_</u>	WL(AC	ER)	BORING COMPLE	TED 06/26/19)		HAMI	MER TYPE Manu a	al	
₩L						RIG ATV	FOREMA	N Cody H	Н.	DRIL	LING METHOD Mu	d Rotary	

CLIENT							Job #:	BORIN	G #		SHEET		
Eisen PROJECT	howe	er Pı	rop	erty (Group		41:2512		B-22		2 OF 2	<u> </u>	
							ARCHITECT-ENGINEE	ER					
208 H	Oldir ATION	ngs	Riv	ervie	w Property						O CALIDDA	TED DENETDON	TETER TONG/ET ²
Balm	Rive	rvie	w R	load	and County F	Road 672, Ba	ılm, Hillsboroug	gh Cou	ınty, F	L			IETER TONS/FT ²
NORTHIN	G			EASTIN	iG -	STATION			-		ROCK QUALIT RQD% -	Y DESIGNATION — - REC%	
		Ш	<u>R</u>	<u> </u>	DESCRIPTION OF M	MATERIAL	ENGLIS	H UNITS	LS FJ		PLASTIC LIMIT%	WATER CONTENT%	LIQUID LIMIT%
4 (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	BOTTOM OF CASIN	G 🔀	LOSS OF CIRCULAT	ON 200%	WATER LEVELS ELEVATION (FT)	.9/8	×	•	Δ
ОЕРТН (FT)	SAMPI	SAMPI	SAMPI	RECO	SURFACE ELEVATI		(Approx.)		WATE ELEVA	BLOWS/6"	⊗ STA	ANDARD PENET BLOWS/FT	RATION
_					(SP) MEDIUM dense	SAND, light bro	wn, wet, medium		<u>-</u> -				
_					(CL) SANDV I	EAN CLAV gro	enish gray, wet,	7777	-		<u> </u>		
=	S-10	ss	18	6		phate fragments			_	3 4 4	8-8		
35 —					END OF BOR	ING @ 35'				·			
_									-				
_									_				
40 —									 - 85				
_									<u> </u>				
-									_				
									<u> </u>				
45 —									- 80				
_									-				
									<u> </u>				
_									- - -				
50 —									 75 				
									_				
									<u> </u>				
55 									-				
55 —													
_									- -				
									<u> </u>				
60 —									— - — 65				
_									-				
		E STRA	ATIFIC	CATION	LINES REPRESENT	THE APPROXIMATE	E BOUNDARY LINES B	ETWEEN S	SOIL TYPI	ES. IN-	SITU THE TRANSIT	TION MAY BE GRA	ADUAL.
<u>¥</u> w∟ 3				ws 🗌	WD⊠	BORING STARTED	06/26/19			CAVE	IN DEPTH		
₩ WL(S	HW)		<u>=</u>	WL(AC	R)	BORING COMPLE	TED 06/26/19			HAMI	MER TYPE Manu	al	
₩ WL						RIG ATV	FOREMAN (Cody H.		DRIL	LING METHOD MI	ud Rotary	

CLIENT						I	Job #:	BORIN	NG#		SHEET		
Fisan	how	or D	ron	≏rtv (Group		41:2512		B-23		1 OF 2		
PROJEC	T NAME	<u> </u>	ıop	CILY	Group		ARCHITECT-ENGI		D-23	1	1 1012	T [5
208 F	loldir	ngs	Riv	ervie	ew Property								
SITE LOC											-O- CALIBRATED	PENETROMET	ER TONS/FT ²
Balm NORTHIN	Rive	rvie	<u>w F</u>	load EASTIN	and County F	Road 672, Ba	lm, Hillsbord	ugh Cou	unty, F	<u> </u>	ROCK QUALITY D	ESIGNATION &	RECOVERY
											RQD%	- REC% -	
			- Î		DESCRIPTION OF M	ATERIAL	ENG	LISH UNITS			PLASTIC	WATER	LIQUID
		/PE	ST. (II	<u> </u>		. 🖜		. =: 0.: \	/ELS		LIMIT% (CONTENT%	LIMIT%
H (FT)	LENC	LE T	LE DI	VERY	BOTTOM OF CASING		LOSS OF CIRCUL	ATION ZWAZ	WATER LEVELS ELEVATION (FT)	.9/S/			_
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATION	n 125 feet	(Approx.)		WATER LEVELS ELEVATION (FT)	BLOWS/6"	⊗ STAND	ARD PENETRAT BLOWS/FT	TION
0 _		00	0.4	0.4	Topsoil Thickn			/	125	5 5	40.00		
_	S-1	SS	24	24	(SP) FINE SAN	ND, white, wet, le	oose			5 5	10-⊗		
_	S-2	SS	24	24	(SP-SM) FINE dark brown, m	TO MEDIUM SA	AND WITH SIL	Г,	∇	6 4	8		
_									<u>-</u>	3			
5 	S-3	SS	24	24	(SM) SILTY FI dense	NE SAND, black	k, wet, loose to	-	_ 120	2 2 10	12		
_								-	_	12		0.5	
_	S-4	ss	24	21				-	_	5 30		35 ⊗	
_					(SP-SM) FINE	SAND WITH SI	LT. dark reddis	h IIIIIII	<u> </u>	30 25			50
_	S-5	SS	24	19	brown, wet, de		,		_	30 20			
10 —									—— 115 —	19			
_	1								_				
_						SAND WITH SI	LT, dark reddis	n III	_				
_					brown, wet, me	edium dense			_	10			
15 —	S-6	SS	18	16					110	10 15	25-	Ø	
'3 -													
_									_				
_									_				
_	S-7	ss	18	10					_	12 12	25-		
20 —				"					105	13			
_									_				
_					(SP-SM) MED	UM SAND WITI	H SILT, dark		_				
_	1				orangish browi	n, wet, dense			_	15			
	S-8	SS	18	9						15 20 20		40->	
25 —									100	-7			
_					(SP) MEDIUM dense	SAND, light bro	wn, wet, mediu	m .					
<u> </u>	S-9	SS	18	2	2550				<u> </u>	7 7	14.		
30 —	3-9	. J.J	10	_					 95	7	14-⊗		
_	1			1	1				—	1 I	NITINUIES (
										CC	NTINUED (JN NEXT	PAGE.
		E STR	ATIFI	CATION	I LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINE	BETWEEN:	SOIL TYP	ES. IN-	SITU THE TRANSITION	MAY BE GRADU	JAL.
≟ wr:	3			ws	WD 🖂	BORING STARTED	06/26/19)		CAVE	IN DEPTH		
₩ WL(S	HW)		<u>_</u>	WL(AC	ER)	BORING COMPLE	TED 06/26/19)		HAMI	MER TYPE Manual		
₩ WL						RIG ATV	FOREMA	N Cody H.		DRILI	ING METHOD Mud	Rotary	

EISENHOWER Property Group A12-512 A20-62 B-23 2 OF 2 B-23 2 OF 2 B-23 2 OF 2 B-23 CO-CAURRATED PENETROMETER TOMOSPT ROOK OWN TO EAST ROOK EAST ROOK OWN TO EAST ROOK OWN TO EAST ROOK OWN TO EAST ROOK OWN TO EAST ROOK OWN TO EAST ROOK OWN TO EAST ROOK OWN TO EAST ROOK EAST ROOK OWN TO EAST ROOK OWN TO EAST ROOK EA	CLIENT							Job #:		BORING	G #		SHEET			
THE STRATFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES SETWEN SOL. TYPES. INSTITUTE. TRANSITION MAY SE GRADUAL. ** N. 3	Fisent	nowe	er Pr	one	ertv (Group		4	1:2512		B-23		2 OF 2	,		
BASING RIVERVIEW ROAd and COUNTY ROAd 672, Balm, Hillsborough County, FL SATISM SATI	PROJECT	NAME	<u> </u>	Op	orty (этоир		ARCHI	TECT-ENGINEER		D-20		1 2012	-		US I
BAILT RIVERVIEW ROAd and COUNTY ROAd 672, Ballm, Hillsborough County, FL SASTING S	208 H	oldir	igs	Riv	ervie	w Property									1	₹N
RODY, RECY, RODY, RODY, RODY, RECY, RODY, RODY, RODY, RECY, RODY,										_			-O- CALIBRA	TED PE	NETROME	TER TONS/FT ²
Section Sec	Balm I	<u>Rive</u> ₃	<u>rvie\</u>	<u>w R</u>	Oad EASTIN	and County I	Road 672, Bastation	ilm, F	<u>lillsborougl</u>	<u>ı Cour</u>	nty, F	L				
S-10 SS 18 8 SIII, with phosphale fragments						DESCRIPTION OF N	MATERIAL		ENGLISH	UNITS			PLASTIC	W	ATER	LIQUID
S-10 SS 18 8 SIII, with phosphate fragments	FT.)	Ö.	TYPE	DIST. (II	ERY (IN)	BOTTOM OF CASIN	G 🔀	LOSS	OF CIRCULATIO	N >100%	LEVELS ION (FT)	9	LIMIT%	CON	ITENT%	
S-10 SS 18 8 SIII, with phosphate fragments SIII, wit	ОЕРТН (SAMPLE	SAMPLE	SAMPLE	RECOVE	SURFACE ELEVATI	on 125 feet	(Арр	rox.)		WATER	BLOWS/	⊗ STA	ANDARI BLC	D PENETRA DWS/FT	ATION
Single Single							SAND, light bro	wn, w	et, medium							
Single Single	_					(CL) SANDY I	FAN CLAV are	enish	arav wet		-					
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL. WHI ST WALSHWY WILACKY BORING COMPLETED 06/26/19 CAVE IN DEPTH		S-10	ss	18	8	stiff, with phos	phate fragments	6	gray, wet,		- -	3	6-⊗			
45 —	35 —					END OF BOR	ING @ 35'		-		 90 					
145	_															
145										F	-					
45 — 80	$-\frac{1}{2}$									E						
45 — 80 — 80 — 80 — 80 — 80 — 80 — 80 — 8	40 —									F	 85					
45 — 80 — 80 — 80 — 80 — 80 — 80 — 80 — 8	_									F	<u> </u>					
45 — 80 — 80 — 80 — 80 — 80 — 80 — 80 — 8										E	<u> </u>					
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL. □ HAMMER TYPE Manual □ HAMMER TYPE Manual	\equiv									E	 					
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL. WL 3 WS WD WD BORING STARTED 06/26/19 CAVE IN DEPTH WL(SHW) WL(ACR) BORING COMPLETED 06/26/19 HAMMER TYPE Manual	45 										- 80					
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL. WL 3 WS WD WD BORING STARTED 06/26/19 CAVE IN DEPTH WL(SHW) WL(ACR) BORING COMPLETED 06/26/19 HAMMER TYPE Manual										F	- -					
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL. WL 3 WS WD WD BORING STARTED 06/26/19 CAVE IN DEPTH WL(SHW) WL(ACR) BORING COMPLETED 06/26/19 HAMMER TYPE Manual										E	- -					
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL. WL 3 WS WD WD BORING STARTED 06/26/19 CAVE IN DEPTH WL(SHW) WL(ACR) BORING COMPLETED 06/26/19 HAMMER TYPE Manual	_										<u> </u>					
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL. WL 3 WS WD WD BORING STARTED 06/26/19 CAVE IN DEPTH WL(SHW) WL(ACR) BORING COMPLETED 06/26/19 HAMMER TYPE Manual	_									F	_					
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL. WAS WE'ND WOD BORING STARTED 06/26/19 CAVE IN DEPTH WL(SHW) WL(ACR) BORING COMPLETED 06/26/19 HAMMER TYPE Manual	50 —									F	 75 -					
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL. WAS WE'ND WOD BORING STARTED 06/26/19 CAVE IN DEPTH WL(SHW) WL(ACR) BORING COMPLETED 06/26/19 HAMMER TYPE Manual	\equiv									E	-					
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL. WAS WE'ND WOD BORING STARTED 06/26/19 CAVE IN DEPTH WL(SHW) WL(ACR) BORING COMPLETED 06/26/19 HAMMER TYPE Manual	_										- -					
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL. WAS WE'ND WOD BORING STARTED 06/26/19 CAVE IN DEPTH WL(SHW) WL(ACR) BORING COMPLETED 06/26/19 HAMMER TYPE Manual										F	- 					
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL. Which is a substant of the stration of the strategies of the strat	55 —									F	- 70					
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL. Which is a substant of the stration of the strate of the s											_					
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL. Which is a substant of the stration of the strate of the s	_									L						
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL. Which is a substant of the stration of the strategies of the strat	_									F	_					
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL. Which is a substant of the stration of the strate of the s	_									F	_					
☐ WL 3 WS ☐ WD ☐ BORING STARTED 06/26/19 CAVE IN DEPTH ☐ WL (SHW) ☐ WL(ACR) BORING COMPLETED 06/26/19 HAMMER TYPE Manual	60 —									F	 65					
☐ WL 3 WS ☐ WD ☐ BORING STARTED 06/26/19 CAVE IN DEPTH ☐ WL (SHW) ☐ WL(ACR) BORING COMPLETED 06/26/19 HAMMER TYPE Manual		I			ı					 		1	<u> </u>	:		
☐ WL 3 WS ☐ WD ☐ BORING STARTED 06/26/19 CAVE IN DEPTH ☐ WL (SHW) ☐ WL(ACR) BORING COMPLETED 06/26/19 HAMMER TYPE Manual																
₩ WL(SHW) WL(ACR) BORING COMPLETED 06/26/19 HAMMER TYPE Manual			STRA							WEEN SO	OIL TYPE			TION MA	AY BE GRAD	DUAL.
														ıal		
I Tri V TONEMUNT COUVITY I DIMERITO METITOD IVIQUITATION	<u>-</u> (s.			-		•	RIG ATV			ody H.					ary	

CLIENT							Job#:	BORING	#		SHEET		
Eisenl	2014/	ar Di	one	ortv (Group		41:2512		B-24		1 OF 1		
PROJECT	NAME	31 171	ope	erty '	Group		ARCHITECT-ENGINE	R I	<u> </u>		1 1051		GC 1
208 H	oldir	ngs	Riv	ervie	ew Property								
SITE LOCA											-O- CALIBRATED	PENETROME	TER TONS/FT ²
Balm I	Rive	rvie	<u>v R</u>	oad EASTIN	and County Roa	ld 672, Ba	ılm, Hillsborou	gh Coun	ty, F	L_	ROCK QUALITY [DESIGNATION (& RECOVERY
											RQD%	- REC%	
			<u> </u>		DESCRIPTION OF MATE	RIAL	ENGLIS	H UNITS			PLASTIC LIMIT%	WATER	LIQUID
Æ	o.	TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	BOTTOM OF CASING		LOSS OF CIRCULAT	ATEN (2007 NOI	ELEVATION (FT)	_	X	ONTENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	MPLE	COVE	SURFACE ELEVATION	124 feet	(Approx.)	HER I	VATIC	BLOWS/6"		ARD PENETRA	TION
O DE	SAI	SAI	SAI	Ä	∖Topsoil Thickness		(· .pp)	11111111		BΓ(: :	BLOWS/FT	:
	S-1	ss	24	24	(SP-SM) FINE SA	ND WITH SI	LT, dark grayish		-	7 5	12+⊗		
					brown, moist, med (SP-SM) FINE TO	MEDIUM S			-	5 3 7			
	S-2	SS	24	24	dark grayish browi dense	n, moist to w	et, medium	 	-	5 5	12 + ⊗		
5_	S-3	ss	24	24	(SP-SM) FINE SA wet, medium dens				- 120 -	4 8	15-⊗- ● -18	3.6	
					wet, mediam dene	o to very de	1100		_	7 8 30			
	S-4	ss	24	7					-	49 41			90
					(SP-SM) MEDIUM	SAND WIT	H SILT, black,		-	45 14			
	S-5	SS	24	17	wet, dense				- 115	18 22 18		40−⊗	X
10 —									-				
									-				
					(SP-SM) MEDIUM brown, wet, dense		H SILT, dark		-				
	S-6	ss	18	16					- 110	25 35			67-⊗
15 —									-	32			
									-				
									-				
									- - 105	32			
20 —	S-7	SS	18	16					-	47 43			90-⊗
									-				
					(SP) MEDIUM SAI	ND. trace sil	t. brown. wet.		-				
					very dense	,	, , ,		-	00			
	S-8	ss	18	2					- 100	28 49 49			98-8
25 —									-				
					(01) 1 5 11 21 21 21 21	AUTI O			_				
▎ ╡					(CL) LEAN CLAY wet, stiff, with phos				-				
	S-9	ss	18	17					- 95	5 7	\otimes		
30 —					END OF BORING	@ 30'		////	-	7	14		
	THI	E STRA	ATIFIC	CATION	I LINES REPRESENT THE	APPROXIMATE	E BOUNDARY LINES B	ETWEEN SO	IL TYPE	ES. IN-	SITU THE TRANSITIO	N MAY BE GRAD	UAL.
<u></u> ₩L 3				ws 🗌		RING STARTE					IN DEPTH		
₩ WL(SH			<u>*</u>	WL(AC	R) BC	RING COMPLE			\dashv	HAMI	MER TYPE Manual		
₩L					RIG	3 ATV	FOREMAN	Cody H.		DRIL	LING METHOD Mud	————Rotary	

CLIENT							Job #:	BORING:	#		SHEET		
	how	or D	rone	orty (Group		41:2512		3-25		1 OF 1		
PROJEC	T NAME	<u>eir</u>	rope	JILY '	Group		ARCHITECT-ENGINEE	R E	<u> </u>		<u> 10F1</u>		GC
208 F	loldii	ngs	Riv	ervie	ew Property								
SITE LOC											-O- CALIBRAT	ED PENETROME	TER TONS/FT ²
Balm NORTHIN	Rive	ervie	<u>w R</u>	oad EASTIN	and County F	Road 672, Ba STATION	<u>lm, Hillsborou</u>	gh Coun	ty, Fl	L	ROCK QUALIT	Y DESIGNATION 8	RECOVERY
											RQD% -	— - REC%	
			<u> </u>		DESCRIPTION OF M	ATERIAL	ENGLIS	H UNITS (0	_		PLASTIC	WATER	LIQUID
F	o O	гүрЕ	SAMPLE DIST. (IN)	RECOVERY (IN)	BOTTOM OF CASING	.	LOSS OF CIRCULAT	WATER LEVELS	ELEVATION (FT)	_	LIMIT%	CONTENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	/PLE [OVEF	SURFACE ELEVATION	on 125 feet	(Approx.)	TER L	VATIC	BLOWS/6"	⊗ STA	NDARD PENETRA	TION
O DEF	SAN	SAN	SAN	REC			(, tpp10x.)		비 125	BΓC		BLOWS/FT	:
	S-1	ss	24	24	Topsoil Thickner (SP) FINE SAN	ess [1.00] ND, grayish brov	vn, moist, loose			5 5	10-⊗		
					(SP-SM) FINE	SAND WITH SI	LT, dark grayish			5 7	\setminus		
_	S-2	SS	24	24	brown, wet, me			 	-	7 6 10	13-🛇		
			24	24		NE SAND, black	k, wet, medium			5 5			
5—	S-3	SS	24	24	dense				· 120	9 9	14-⊗		
_	S-4	SS	24	21		TO MEDIUM SA et, dense to very	AND WITH SILT, dense			25 28 39			\searrow
-	1									31 15		21	67
_	S-5	ss	24	14					-	15 16		31 ×	
10 —									115	20			
_	1												
_						SAND WITH SI	LT, dark reddish						
_	S-6	SS	18	18	brown, wet, de	rise to very deris	5 C			20 25		40	
15 —	3-0	33	10	10					110	18		43	\
_													
_									•				\
-									-	37			\
20 —	S-7	SS	18	10					105	39 40			79-⊗
_	1				(SD) FINE TO	MEDIUM SAND	hrown wet		-				
					very dense	WEDIOW SAND	, blowii, wet,		.				
-	S-8	SS	11	11						15 50/5			50/5-🕸
25 —	1								100				
_													
_						AY WITH SAND with phosphate t	, greenish gray, fragments						
_	S-9	ss	18	17			ŭ			8 8	\otimes		
30 —	1			· ·	END OF BORI	NG @ 30'			95	8	16		
	•	, ,		,	,	J 4 4			'	•			·
		E OTO	٨Τ١٢١٨	NATIO:	I I INES DEDDESER	THE ADDDOVINA	E DOLINDADY LINES D	ETIMEEN OO	LTVDT	C 141 9	OITH THE TEAMOR	ION MAY BE OBES	
¥ wL;		E STR		ws \Box	VD ⊠	THE APPROXIMATE BORING STARTED	06/26/19	ET WEEN SOI	LIYPE		SITU THE TRANSIT	ION WAY BE GRAD	UAL.
₩ WL(S				WL(AC		BORING COMPLET			-		MER TYPE Manua	al	
	/1 IVV)		<u> </u>	**L(AC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			O 1.1	+				
₩ WL						RIG ATV	FOREMAN (ody H.		DRILI	ING METHOD Mu	id Rotary	

CLIENT	Job #:	BORING #		SHEET	
Eisenhower Property Group	41:2512	B-26		1 OF 1	FCO
208 Holdings Riverview Property SITE LOCATION	ARCHITECT-ENGINEER				N 100
	Dalma I lillahanassah	O a v matrix . E		-O- CALIBRATED I	PENETROMETER TONS/FT ²
Balm Riverview Road and County Road 672, NORTHING EASTING STATION	<u> 3aim, Hillsborougn</u>	County, F	L	ROCK QUALITY DE RQD%	SIGNATION & RECOVERY REC%
DESCRIPTION OF MATERIAL	ENGLISH U				WATER LIQUID DNTENT% LIMIT%
(F) Sign Sign Sign Sign Sign Sign Sign Sign	LOSS OF CIRCULATION	ION (F	9	X	<u> </u>
S S S S S S S S S S S S S S S S S S S	et (Approx.)	WATER LEVELS ELEVATION (FT)	BLOWS/6"	⊗ STANDA B	RD PENETRATION LOWS/FT
O _ S-1 SS 24 24 \[\tag{Topsoil Thickness [1.00"]} (SP) FINE SAND, light brow dense	[3 3 8 7	11-⊗	
S-2 SS 24 (SP-SM) FINE SAND WITH gray, moist to wet, loose	SILT, brownish	_ -	7 5 4 3	9-&	
5 — S-3 SS 24 24 (SM) SILTY FINE SAND, bl dense to very dense	ack, wet, medium	<u> </u>	1 4 9 12	13-&	
S-4 SS 24 24		— 115 — — —	10 25 30 35		55· ⊗
_ S-5 SS 11 11		_	27 50/5		50/5-
10 —		<u> </u>			
		110			
(SP-SM) MEDIUM SAND W					
S-6 SS 18 15			13 15	3	30-⊗
15		— — 105	15		
			29		
S-7 SS 18 10			39 42		81-8
		100			
3					
			7 6	12	
25			6		
(CL) LEAN CLAY WITH SA	ND groonish grav	95			
wet, very stiff	ND, greenish gray,				
S-9 SS 18 17			5 8 8	16-⊗	
30		L	 		
THE STRATIFICATION I INICS DEPOSSENT THE APPROVIA	ATE BOLINDARY LINES RET	WEEN SOU TYPI	=Q INI 9	SITUTHE TRANSITION	MAY BE CDADUAL
THE STRATIFICATION LINES REPRESENT THE APPROXIM WUL 3 WS WS WD WD BORING STAR		WEEN SUIL TYPI		SITUTHE TRANSITION I	VIA I DE GRADUAL.
WL(SHW) WL(ACR) ■ BORING COMI			HAM	MER TYPE Manual	
₩ RIG ATV	FOREMAN Co	dy H.	DRILL	ING METHOD Mud R	otary

CLIENT							Job #:	BORING #		SHEET	
	how	or D	rone	arty (Group		41:2512	B-2	7	1 OF 1	
PROJEC	T NAME	<u> </u>	υμι	JILY (<u> Οιυαρ</u>		ARCHITECT-ENGINEER	<u> D-2</u>	_1	1 IOFI	T EUC
208 F	loldi	ngs	Riv	ervie	ew Property					T	- 1
SITE LOC										-O- CALIBRATED	PENETROMETER TONS/FT ²
Balm NORTHIN	Rive	ervie	<u>w R</u>	oad EASTIN	and County F	Road 672, Ba STATION	ılm, Hillsboroug	h County,	FL	ROCK QUALITY DE	ESIGNATION & RECOVERY
										RQD%	- REC%
			<u> </u>		DESCRIPTION OF M	ATERIAL	ENGLISH				WATER LIQUID ONTENT% LIMIT%
F.	9	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	BOTTOM OF CASING	G 🔼	LOSS OF CIRCULATION	WATER LEVELS	ELEVATION (FT) BLOWS/6"	X	
ОЕРТН (FT)	SAMPLE NO.	MPLE	MPLE	COVE	SURFACE ELEVATION	N 123 feet	(Approx.)	TER L	ELEVATIO BLOWS/6"		RD PENETRATION
0	SAI	SAI	SAI	Ä	∖Topsoil Thickn			× ×	4	B	LOWS/FT
_	S-1	ss	24	24	(SP) FINE SAN	ND, light brown,	wet, medium		5 10	15−⊗	
_					dense (SP-SM) FINE	SAND WITH SI	LT, dark gray,		12		
-	S-2	SS	24	24	moist to wet, m	edium dense		12	0 11 20	⊗_ 22	
5—	S-3	ss	24	24	(SP-SM) FINE gray, wet, dens	SAND WITH SI	LT, brownish		20 25		50 ⊗
						SAND WITH SI	II T. grovish		25 20 20		
_	S-4	ss	24	24	brown to dark r		wet, dense to very		30 32		62-8
-					dense			11	5 30 14 15		32
	S-5	SS	24	24					17 15		8
10 —											
_	1				(CD CM) FINE	CAND WITH C	II T alouis uo alaliole				
-					brown, wet, me		LT, dark reddish	11	о		
-	S-6	ss	18	18					5 7 7	14-🛇	
15 —											
_	1							10	5		
-	S-7	SS	18	18					9 11	2	9-8
20 —									18		
_	1									/	/
_								10	_		
_	S-8	SS	18	14					10 9	18-⊗	
25 —				'					9		
_	-										
_					(CL) LEAN CL	AY WITH SAND), light grayish				
_		-	40	4-	green, wet, stif	I		95	7	10.0	
30 —	S-9	SS	18	17	END OF BORI	NG @ 30'			5 5	10-⊗	
_	1			I	LIND OF DOKI	143 W 30		· F	1	<u> </u>	; ; <u>i</u>
¥ wL;		E STR		WS	ULINES REPRESENT WD WD WD WD WD WD WD	THE APPROXIMATE BORING STARTED		TWEEN SOIL T		-SITU THE TRANSITION	MAY BE GRADUAL.
₩ WL(S				WL(AC					CAVE IN DEPTH HAMMER TYPE Manual		
	νη νν)		Ŧ	vvL(AC	·n)	BORING COMPLE		and a U.			1-4
₩ WL						RIG ATV	FOREMAN C	ody H.	DRIL	LING METHOD Mud R	cotary

CLIENT						1	Job #:	BORING #	<u> </u>	SHEET		
		_										
PROJECT	NAME	er P	<u>rop</u>	erty	Group		41:2512 ARCHITECT-ENGINE	<u>I B</u> ER	3-28	1 OF 1		
208 H	loldii	าตร	Riv	ervie	ew Property							
SITE LOC	CATION	l		0.71	ow i roporty	<u> </u>				-O- CALIBRATE	D PENETROMETE	R TONS/FT ²
Balm	Rive	rvie	w F	Road	and County Ro	oad 672, Ba	lm, Hillsborou	gh Count	y, FL			
NORTHIN	IG			EASTIN	NG S	TATION				RQD%	DESIGNATION & F	
			Ê		DESCRIPTION OF MA	TERIAL	ENGLIS	H UNITS (0		PLASTIC LIMIT%	WATER CONTENT%	LIQUID LIMIT%
F	9	TYPE	JIST.	\ \ \ \ \	BOTTOM OF CASING		LOSS OF CIRCULAT	ION XWX NOI	E) NC	×	ONTENT %	
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATION	125 feet	(Approx.)	NATER LEVELS	ELEVATION (FT)	⊗ STAN	DARD PENETRAT BLOWS/FT	ION
0	Ŋ	Ŋ	Ŋ	<u> </u>	\Topsoil Thickne				125 3 6		DEG TO T	
_	S-1	SS	24	24	(SP) FINE SANI medium dense	O, light gray to	brown, moist,		10			
_	S-2	ss	24	24			orange, moist to		5 6 6			
_									5 1			
5 —	S-3	SS	24	24				\	120 4 8 13	12-8		
<u>-</u>	S-4	SS	24	24	(SM) SILTY FIN very dense	E SAND, black	x, wet, dense to	_	10 20 25			45 ⊗
_	S-5	ss	24	24					30 30 30			70-
10 —	5-5	55	24	24				_	115 40 45			70-⊗
]										/	/
_					(SP-SM) SAND	WITH SILT, da	ark grayish brown					
_					to dark brown, w	et, medium de	nse to dense		13			
	S-6	ss	18	18					15		31-⊗	
15 —									110			
_												
_												
_	S-7	ss	18	8					5 9	20-8		
20 —									105		\	
_												
_					(SP) FINE SANI	O, grayish brow	n, wet, medium					
_		66		-	dense				12			
25 —	S-8	SS	18	8					100 15		30-⊗	
-												
-					(CL) LEAN CLA	Y WITH SAND	, greenish grav					
-					wet, very stiff		3 3,] /	/	
	S-9	ss	18	10					10 10 10	20-⊗		
30 —					END OF BORIN	G @ 30'			95			
	TH	E STR.	ATIFI	CATION	LINES REPRESENT T	HE APPROXIMATE	BOUNDARY LINES B	ETWEEN SOIL	TYPES. I	N-SITU THE TRANSITIC	N MAY BE GRADUA	AL
<u></u> ₩L 5	5			ws 🗌	WD⊠	BORING STARTED	06/25/19		CA	VE IN DEPTH		
₩ WL(S	HW)		<u></u>	WL(AC	CR)	BORING COMPLET	TED 06/25/19		НА	MMER TYPE Manual		
₹ WL						RIG ATV	FOREMAN	Cody H.	DR	ILLING METHOD Mud	Rotary	

CLIENT						<u> </u>	Job #:	BORING #		SHEET	
	h a	م» D	ro 10	orti (Oralin				20		
Eisen PROJECT	NAME	er P	rop	епу	Joup		41:2512 ARCHITECT-ENGINEE	I R-	29	1 OF 1	
 208 H	oldir	nas	Riv	ervie	ew Property						
SITE LOC	ATION					•					PENETROMETER TONS/FT ²
Balm	Rive	rvie	w F	Road	and County Ro	ad 672, Ba	lm, Hillsboroug	h County	, FL	BOCK OHALITY D	ESIGNATION & RECOVERY
NORTHIN	G			EASTIN	IG 51	ATION				RQD% - —	
			(NI)		DESCRIPTION OF MAT	ERIAL	ENGLISH		<u> </u>	PLASTIC LIMIT% C	WATER LIQUID ONTENT% LIMIT%
Æ	o O	TYPE	DIST.	<u>N</u> ≿	BOTTOM OF CASING		LOSS OF CIRCULATION	N ∑‱ NC	E) NC	X	● \(\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\text{\tint{\text{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tin{\tin
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATION	125 feet	(Approx.)	WATER LEVELS	ELEVATION (FT) BLOWS/6"		ARD PENETRATION BLOWS/FT
0 _					Topsoil Thicknes	s [1.00"]			25 3	40.0	
	S-1	SS	24	24	(SP-SM) FINE S gray, moist, loos	AND WITH SI e to medium d	LT, gray to dark ense		9 7	12+⊗	
<u> </u>	S-2	SS	24	24					7 5 5 4	10-⊗	
5 —	S-3	ss	24	24	(SP) FINE SAND), orange, wet,	loose	1	20 5 5	10-🕸	
_					(SP) FINE SAND), light gray to	dark brown, wet,		10 10		50
_	S-4	SS	24	24	dense				25 25 30		
_	S-5	SS	11	11	(SM) SILTY FINI	E SAND, black	k, wet, very dense		35 50/5		50/5-🛇
10 —								<u> </u>	15		
_											
					(SP-SM) FINE S	AND WITH SI	LT, dark brown to				<i> </i>
_					dark grayish bro				15		/
	S-6	SS	18	12					15 20 15		35-⊗
15 —									10		
_											
_	S-7	ss	18	10					30 29		50-8
20 —	-							1	05 21		
_											
_					(SP-SM) FINE S		LT, dark grayish				
					brown, wet, med	ium dense			6	14	
25 —	S-8	SS	18	7				1	00 7		
_					(CL) LEAN CLA	/ WITH SAND	areenish aray				
					wet, very stiff	. WITH OAND	, groomon gray,				
-	S-9	SS	18	17					6 8	16−⊗	
30 —					END OF BORIN	G @ 30'		9	5 8		
	TH	E STR.	ATIFI	CATION	I LINES REPRESENT TH	HE APPROXIMATE	BOUNDARY LINES BE	TWEEN SOIL	TYPES. IN	-SITU THE TRANSITION	MAY BE GRADUAL.
<u></u> ₩L 5				ws□		BORING STARTED				E IN DEPTH	
₩ WL(S	HW)		<u>*</u>	WL(AC	R)	BORING COMPLETED 06/25/19 HAMMER TYPE Manual					
₩ WL		_	-		-	RIG ATV	FOREMAN (cody H.	DRII	LING METHOD Mud F	Rotary

CLIENT							Job #:	BORING #			SHEET		
		_			^				00				
Eisen PROJECT	NAME	er P	rop	erty (<u>Group</u>		41:2512 ARCHITECT-ENGINEE	<u>I B</u> - ₹	-30		1 OF 1		<u></u>
) 208 Н	loldir	าตร	Riv	ervie	ew Property								
SITE LOC	ATION	.5,-				<u>.</u>					-()- CALIBRAT	ED PENETROM	ETER TONS/FT ²
Balm	Rive	rvie	w F	Road	and County F	Road 672, Ba	lm, Hillsboroug	h County	/, FL		BOCK OHALITA	/ DESIGNATION	% RECOVERY
NORTHIN	lG			EASTIN	NG I	STATION					RQD% -		
			- Î		DESCRIPTION OF M	IATERIAL	ENGLISH			-	PLASTIC	WATER	LIQUID
_	<u>o</u>	YPE	SAMPLE DIST. (IN)	RECOVERY (IN)	BOTTOM OF CASING	g T	LOSS OF CIRCULATION	WATER LEVELS	ELEVATION (FT)		LIMIT%	CONTENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	PLED	OVER				R II	ELEVATIO	0/8/	⊗ STAN	NDARD PENETR	ATION
	SAM	SAM	SAM	REC	SURFACE ELEVATION		(Approx.)	_			W OTA	BLOWS/FT	ATION
0	S-1	ss	24	24	Topsoil Thickn	ess [1.00"] SAND WITH SI	LT, dark gray to			2	8-⊗		
_					brownish gray,	moist to wet, lo	ose		5	5			
	S-2	ss	24	24					5	5	8		
-	S-3	SS	10	10	(SP-SM) FINE	SAND WITH SI	LT, grayish		2 50	5	'		50/4=⊗
5 —					brown, wet, ve	ry dense		1	120	"-			
_	S-4	SS	24	24	(SM) SILTY FII	NE SAND, dark	brown, wet, very			0			89-⊗
_									4	9 8)/5			
_	S-5	SS	5	5			AND WITH SILT, lightly cemented		150)/5			50/5-⊗
10 —								1	115				
_													
-					(SP-SM) MEDI	IUM SAND WITI	H SILT, dark						
_	0.0		4.4	44	brown, wet, ve	ry dense			3	4			50/5
15 —	S-6	SS	11	11					110)/5			50/5-⊗
15—									110				
_					(CD CM) MED	ILIM CAND WIT	LOUT days						
_					brown, wet, ve	IUM SAND WITI ry dense	H SILT, dark						
	S-7	ss	18	7						5			77-⊗
20 —								1	105 4	2			
_													
_					(SP) FINE SAN	ND, brown, wet,	dense					/	
_	C 0	SS	40	1 4						0		22 🛇	
25 —	S-8	55	18	14				1		2		32-⊗	
					(CL) SANDY L	EAN CLAY, gra	y, wet, very stiff,						
_					with phosphate							,	
	S-9	ss	18	16					8	3	16−⊗		
30 —					END OF BORI	NG @ 30'			95				
	ТН	E STR	ATIFI	CATION	LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINES BE	TWEEN SOIL	TYPES.	IN-SI	TU THE TRANSITI	ON MAY BE GRA	DUAL.
¥ wr 3	3			ws 🗌	WD⊠	BORING STARTED	06/25/19		CA	AVE II	N DEPTH		
₩ WL(S	HW)		<u></u>	WL(AC	CR)	BORING COMPLE	TED 06/25/19		Н	AMME	R TYPE Manua	al	
≟ Mr						RIG ATV	FOREMAN (ody H.	DI	RILLIN	NG METHOD Mu	d Rotary	

CLIENT							Job #:	BORING	#		SHEET		
	how	or D	rone	orty (Group		41:2512		B-31		1 OF	, [
PROJECT	NAME	EIF	rope	S ILY '	Group		ARCHITECT-ENGINE	R I	<u> </u>		<u> </u>	<u>' </u>	
208 H	loldii	ngs	Riv	ervie	ew Property								
SITE LOC											-O- CALIBRA	ATED PENETROM	METER TONS/FT ²
Balm NORTHIN	Rive	rvie	<u>w R</u>	oad EASTIN	and County R	Road 672, Ba STATION	lm, Hillsborou	gh Coun	ty, F	L	ROCK QUALI	TY DESIGNATIO	N & RECOVERY
											RQD% -	- — - REC9	/ ₆ ——
			<u> </u>		DESCRIPTION OF MA	ATERIAL	ENGLIS	H UNITS			PLASTIC	WATER	LIQUID
F	Š	ΓΥΡΕ	SAMPLE DIST. (IN)	RECOVERY (IN)	BOTTOM OF CASING		LOSS OF CIRCULAT	ATEN (2007 NOI	ELEVATION (FT)		LIMIT%	CONTENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	APLE I	COVEF	SURFACE ELEVATIO	N 125 feet	(Approx.)		VATIC	BLOWS/6"	⊗ st	ANDARD PENET	RATION
ODE	SAN	SAN	SAN	Ä			(, tbb.ov.)	N	125	β B F C	:	BLOWS/FT	: :
	S-1	ss	24	24	Topsoil Thickne (SP) FINE SAN	ID, light gray to	dark brown,		-	4 6	10-∳		
_					moist to wet, ve	ery loose to loos	se		-	5			
-	S-2	SS	24	24				F	-	2 2 2	⊗ -4		
			04	24		SAND WITH SI	LT, grayish		100	2			
5—	S-3	SS	24	24	brown, wet, ver				- 120 -	1 2	⊗-2		
_	S-4	SS	24	24	(SM) SILTY FIN	NE TO MEDIUM ense	I SAND, black,		_	5 9 8	\otimes		
_					(SP-SM) SAND) WITH SILT, da	ark brown wet		-	12 30	17		90
_	S-5	ss	24	14	very dense	, willi oili, de	ark brown, wet,		-	32 48			80
10 —									- 115	38			
-									-				
						NE TO MEDIUM			-				
					wet, medium di	ense to very dei	iise		-	9	~		
15 —	S-6	SS	18	14					- 110	10 7	17		
-									-				
-									-				
-									-	38			50/5
	S-7	SS	11	11					- 405	50/5			
20 —									- 105 -				
_					(OD) FINE OAA	ID 1: 1 (1			_				
_					(SP) FINE SAN	ID, light brown,	saturated, loose		-				
_	S-8	SS	18	6					-	4	7		
25 —									- 100	4			
_									-				
					(CL) SANDY LI	EAN CLAY, gre	enish gray, wet,		-				
_	6.0	SS	40	47	vory Suii				-	7			
30 —	S-9	55	18	17	END OF BORII	NG @ 30'			- 95	10 12	22	2÷⊗	
-	i			I	ן בואט טר סטאוו	143 W 30		ı		ı	:	: :	
		E STR					BOUNDARY LINES B	ETWEEN SO	IL TYPE			ITION MAY BE GR	ADUAL.
₩ WL 3				WS 🗌		BORING STARTED			CAVE IN DEPTH				
₩ WL(S	HW)		<u>=</u>	WL(AC	CR)	BORING COMPLE				HAM	MER TYPE Manı	ual	
₩ WL						RIG ATV	FOREMAN	Cody H.		DRIL	LING METHOD [/	lud Rotary	

CLIENT							Job #:	BORING #		SHEE	т		
Eisenh	10W/	∍r Pı	rone	≏rt∨ i	Group		41:2512	_{R-}	32	1 OF	1		
PROJECT	NAME	<u> </u>	Ор	<u> </u>	Огоир		ARCHITECT-ENGINEE	R D-	<u> </u>	1 101			GC 1
208 Ho	oldir	ngs	Riv	ervie	ew Property								7~
SITE LOCA								_		-O- CALIBR	RATED PE	NETROME [*]	TER TONS/FT ²
Balm F NORTHING	<u>Rive</u>	<u>rvie</u>	w R	L <mark>oad</mark> Eastin	and County R	oad 672, Ba	<u>lm, Hillsboroug</u>	ıh County	<u>', FL</u>		LITY DES	IGNATION 8	RECOVERY
			_		DESCRIPTION OF MA	ATERIAL	ENGLISH	UNITS		PLASTIC	w	ATER	LIQUID
		Æ	SAMPLE DIST. (IN)	<u> </u>					(FT)	LIMIT%		NTENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	'LE DI	RECOVERY (IN)	BOTTOM OF CASING		LOSS OF CIRCULATIO	WATER LEVELS	ELEVATION (FT) BLOWS/6"				
	SAMF	SAME	SAMF	RECC	SURFACE ELEVATIO	N 125 feet	(Approx.)	_		⊗ s		D PENETRA DWS/FT	TION
0	S-1	ss	24	24	Topsoil Thickne	ess [1.00"] D. light gray to	brown, moist to	1	25 4	9-⊗			
=					wet, very loose	to loose	2.0,		5 5 2				
	S-2	ss	24	24					2 2	⊗ -4			
-					(SP) FINE SAN	D, trace silt, gra	ayish brown, wet,		1				
5 —	S-3	SS	24	24	loose			1	$\begin{array}{c c} 20 & \begin{array}{c} 3 \\ 3 \\ 2 \end{array}$	6-⊗	20.3		
	S-4	ss	24	24	(SM) SILTY FIN	IE SAND, black	k, wet, medium		7				
						WITH OUT 4	sulc us alalish		7 9 25	14		+	
	S-5	ss	24	24	(SP-SM) SAND brown, wet, ver		ark reddish		20 30				50 Ø
10								1	15 40				
					(SM) SILTY FIN		I SAND, black,						
	S-6	ss	18	18	wet, mediam at	7130			15 12		24-8		
15	3-0	33	10	10				<u> </u>	10 12		24-00		
					(SM) SILTY ME	DIUM SAND, b	olack, wet, very						
	S-7	SS	5	5	dense				50/5	,			50/5
20 —									05				
					(SP) FINE SAN	D, light brown,	saturated,						
					medium dense				15				
	S-8	SS	18	4					00 9	18	8		
25								##E'					
					(CL) LEAN CL	V WITH SAND	, greenish gray,						
					wet, very stiff	AT WITH SAIND	, greenish gray,						
	S-9	ss	18	18					10 10	20) -⊗		
30					END OF BORIN	NG @ 30'		9	5 10				
	THI	STR/	ATIFIC	CATION	LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINES BE	TWEEN SOIL	TYPES. IN	I-SITU THE TRAN	SITION MA	AY BE GRAD	JAL.
<u></u> ₩L 3				ws 🗌	WD 🛛	BORING STARTED	06/27/19		CAN	/E IN DEPTH			
₩ WL(SH	IW)		<u>=</u>	WL(AC	CR)	BORING COMPLE	TED 06/27/19		HAN	MMER TYPE M ar	nual		
∰ WL						RIG ATV	FOREMAN (Cody H.	DRI	LLING METHOD	Mud Rot	tary	

CLIENT						<u> </u>	Job #:	BORING #		SHEE	т		
	h	D			0				22				
Eisen PROJECT	NAME	er P	rop	erty (<u>sroup</u>		41:2512 ARCHITECT-ENGINEER	B-	33	1 OF	1		Ge
 208 H	loldir	nas	Riv	ervie	ew Property								
SITE LOC	ATION				<i>-</i>	•				-O- CALIBE	RATED PEN	ETROME	TER TONS/FT ²
Balm	Rive	rvie	w F	load	and County F	Road 672, Ba	<u>lm, Hillsboroug</u>	h County	, FL	BOCK OUA	ITY DESIG	NATION	& RECOVERY
NORTHIN	IG			EASTIN	iG :	STATION						REC%	
			<u> </u>		DESCRIPTION OF M.	ATERIAL	ENGLISH			PLASTIC LIMIT%		TER ENT%	LIQUID LIMIT%
F	O	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	BOTTOM OF CASING	g >	LOSS OF CIRCULATIO	× WATER LEVELS	ELEVATION (FT) BLOWS/6"	X	CONT	EN 1 76	
ОЕРТН (FT)	SAMPLE NO.	PLE.	1PLE	OVE	SURFACE ELEVATIO	on 125 feet	(Approx.)	TER L	ELEVATIO BLOWS/6"	⊗ s	TANDARD	PENETRA	ATION
OEF	SAN	SAN	SAN	A. P.			(, tpprox.)	14.			BLOV	VS/FT	
	S-1	SS	24	24	Topsoil Thicknotes (SP) FINE SAN		own, moist, loose		25 2 5 4	9-⊗			
_					(SP-SM) FINE	SAND WITH SI	LT, dark grayish		5 4				
_	S-2	SS	24	18		wet, very loose			2 2				
_					(SP-SM) FINE	SAND WITH SI	LT, reddish		2 2 5	*			
5 —	S-3	SS	21	6	brown, wet, vei	ry dense		12	20 15	3	20		50/5
_	S-4	SS	5	5					50/5	5			\Diamond
_	S-5	SS	11	11	(SM) SILTY FII	NE SAND, black	x, wet, very dense		40 50/5	5			50/5-🛇
10 —	10							1- 1-	15				
-													
					(SM) SILTY FII	NE SAND, black	x. wet. verv						
_					dense, slighty		, ,		27				
_	S-6	SS	9	9					50/3	3			50/3-⊗
15 —								— 1 ⁻	10				
_					(SP-SM) FINE brown, wet, de		LT, dark reddish						
_	S-7	ss	18	9					15 16		3:	3-00	
20 —								10	17				
_													
_						ND, light brown,	wet, medium						
_					dense				9				
25 —	S-8	SS	18	4				10	00 11	20)-⊗ /:		
										/	/		
-					(CL) SANDVI	EAN CLAY, gra	v wet stiff			/			
-					calcareous	LAN OLAT, YIA	y, woi, Suii,						
	S-9	ss	18	9					4 6	10-⊗			
30 —				+	END OF BORI	NG @ 30'		9!	5 4				
	TH	E STR	ATIFI	CATION	I LINES REPRESENT	THE APPROXIMATE	BOUNDARY LINES BE	TWEEN SOIL 1	YPES. IN	N-SITU THE TRAN	SITION MAY	BE GRAD	UAL.
<u></u> ₩L 3				ws 🗌	WD 🖂	THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL. BORING STARTED 06/28/19 CAVE IN DEPTH							
₩ WL(S			<u></u>	WL(AC	ER)	BORING COMPLETED 06/28/19 HAMMER TYPE Manual							
₩ WL						RIG ATV	FOREMAN C	ody H.	DRI	LLING METHOD	Mud Rota	ry	

CLIENT	Job #: BORIN	NG#	SHEET		
Eisenhower Property Group	41:2512	B-34	1 OF 1	FCO	
208 Holdings Riverview Property SITE LOCATION	ARCHITECT-ENGINEER			- T	
	D 1 11111 1 0	. =	-O- CALIBRATED P	PENETROMETER TONS/FT ²	
Balm Riverview Road and County Road 672 NORTHING EASTING STATION	<u>, Baim, Hillsborough Col</u>	unty, FL	ROCK QUALITY DE: RQD%	SIGNATION & RECOVERY REC%	
DESCRIPTION OF MATERIAL	ENGLISH UNITS	(O)		WATER LIQUID	
(L) ON ALL SIG NO. SET SOME SET STATES AND SET STAT	LOSS OF CIRCULATION 2002	LEVELS	X CO	—————————————————————————————————————	
S S S D D D D D D D D D D D D D D D D D	eet (Approx.)	WATER LEVELS ELEVATION (FT) BLOWS/6"	⊗ STANDAF BL	RD PENETRATION LOWS/FT	
S-1 SS 24 18 Topsoil Thickness [1.00"] (SP) FINE SAND, light brown	own, wet, loose	120	5-⊗		
S-2 SS 24 24 (SP-SM) FINE SAND WIT	H SILT, grayish	4 6 3 4	9		
5-3 SS 23 23 (SP-SM) FINE SAND WIT wet, very dense	H SILT, dark brown,			46-⊗	
S-4 SS 4 4 (SP-SM) FINE SAND WIT brown, wet, very dense	H SILT, dark reddish	115 50/5 50/4		50/4-	
				50/3-⊗	
10 —					
		110			
(SP-SM) FINE SAND WIT	H SILT, dark brown,	_			
— S-6 SS 10 10				50/4-⊗	
15 —		_			
]]		— 105 — —			
(SP-SM) FINE SAND WIT	H SIL1, dark reddish	<u> </u>			
S-7 SS 18 4		21 20 17		37-8	
		100			
(SP) MEDIUM TO COAR	SE SAND, light brown,	_			
wet, medium dense			15-⊗		
25 -		8			
3		 95 			
(CL) SANDY LEAN CLAY	, greenish gray, wet,				
S-9 SS 18 9			6-8		
30 END OF BORING @ 30'		_			
THE STRATIFICATION LINES REPRESENT THE APPROX				MAY BE GRADUAL.	
₩ WL(SHW) ₩ WL(ACR) BORING CC			CAVE IN DEPTH HAMMER TYPE Manual		
ÿ wL RIG ATV	FOREMAN Cody H.		LING METHOD Mud Ro	otary	
				-	

CLIENT	Job #:	BORING #	SHEET						
Fisenhower Property Group	41:2512	B-35	1 OF 1	500					
Eisenhower Property Group PROJECT NAME	ARCHITECT-ENGINEE	<u>р-55</u>	1 101 1	- EUC					
208 Holdings Riverview Property				Tv					
SITE LOCATION			-O- CALIBRATED F	PENETROMETER TONS/FT ²					
Balm Riverview Road and County Road Inches Santa County Road S	<u>oad 672, Balm, Hillsboroug</u> _{FATION}	h County, FL	ROCK QUALITY DE	SIGNATION & RECOVERY					
			RQD%	- REC% ———					
DESCRIPTION OF MA	TERIAL ENGLISH			WATER LIQUID DITENT% LIMIT%					
SAMPLE NO. OVER SAMPLE NO. SAMPLE NO. SAMPLE NO. SAMPLE TYPE SAMPL	LOSS OF CIRCULATIO	WATER LEVELS ELEVATION (FT)	X	DIVIENT% LIMIT%					
SAMPLE TYPE SAMPL	121 feet (Approx.)	TER L		RD PENETRATION					
□ □ </td <td> ,</td> <td>WA.</td> <td></td> <td>LOWS/FT</td>	,	WA.		LOWS/FT					
S-1 SS 24 18 (SP-SM) FINE S	SAND WITH SILT, dark reddish	120	3 5-⊗						
brown, moist, lo (SP) FINE SANI	ose D, light brown, moist to wet,								
S-2 SS 24 18 loose			4 8-0						
S-3 SS 24 12 wet, medium de	E TO MEDIUM SAND, black,		• : \ :						
<u> </u>		115 1	1 3						
S-4 SS 24 24 medium dense t	E SAND, black, saturated, o very dense		9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8						
			5 12	75/10					
S-5 SS 16 16			0/4	<i>*</i>					
10—									
1 3		110							
(SP-SM) FINE S wet, medium de	SAND WITH SILT, dark brown,								
S-6 SS 18 15			0 4 29	0-10					
15 -			5						
-		105							
(SP-SM) MEDIL	IM SAND WITH SILT, dark								
brown, wet, med	lium dense		8						
S-7 SS 18 9			2 26-5	8					
1 ~ 		100							
(SP_SM) FINE S	SAND WITH SILT, dark brown,								
wet, loose	, and minimoler, dam brown,								
S-8 SS 18 9			3 3 4 7-8						
25		95							
]]		30							
CL) SANDY LE	AN CLAY, greenish gray, wet,								
S-9 SS 18 15			6						
30 END OF BORIN	G @ 30'								
		•							
THE STRATIFICATION LINES REPRESENT T	HE APPROXIMATE BOLINDARY LINES RE	TWEEN SOIL TYPES	IN-SITU THE TRANSITION N	MAY BE GRADUAI					
	BORING STARTED 06/28/19		AVE IN DEPTH						
WL(SHW) WL(ACR) ■ BORING COMPLETED 06/28/19 HAMMER TYPE Manual									
	RIG ATV FOREMAN C	Cody H. DI	RILLING METHOD Mud R	otary					

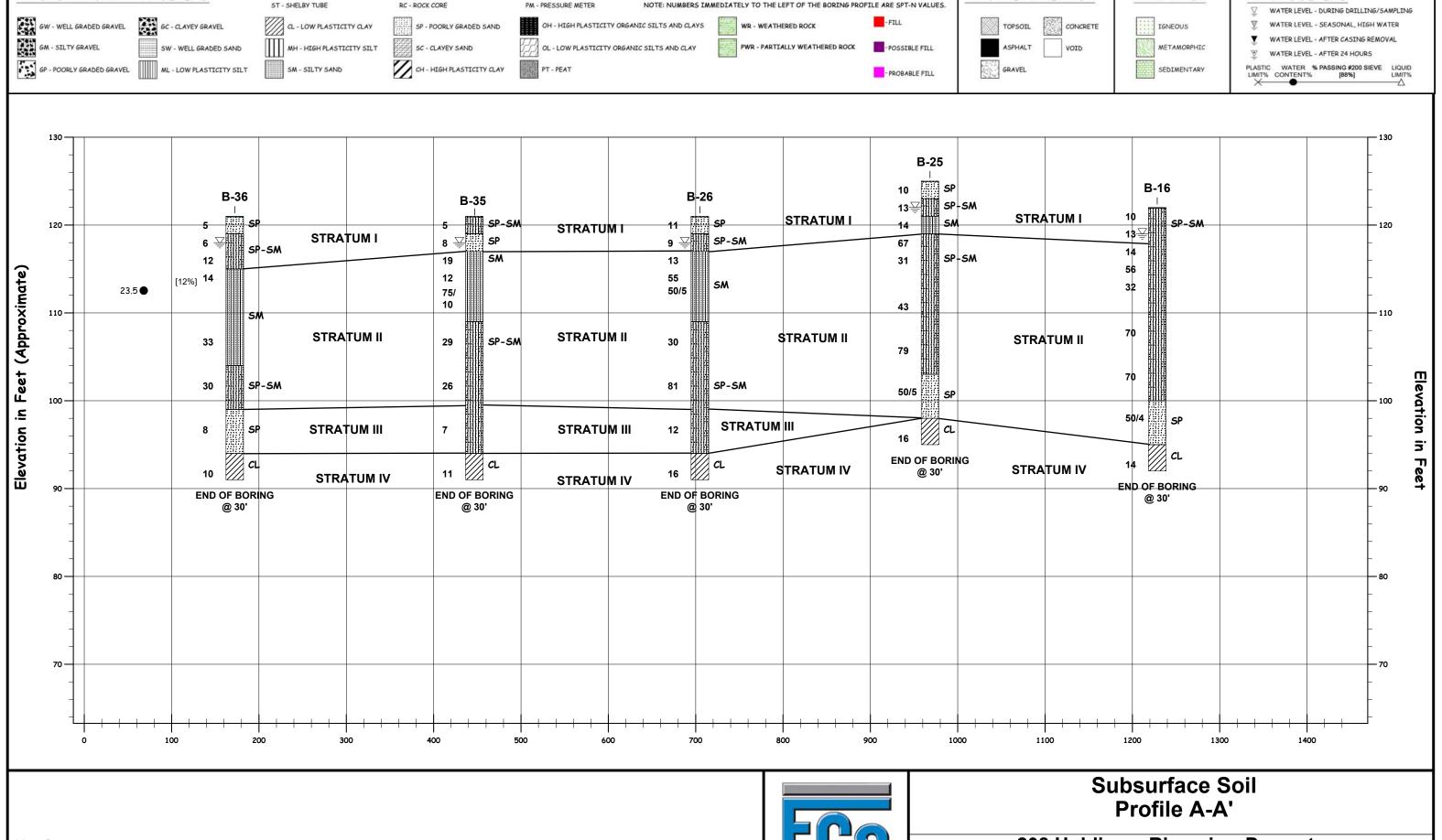
CLIENT							Job #:	BORING #	!		SHEET		
Eisenh PROJECT	10W6	er Pr	ор	erty (Group		41:2512	<u> </u>	3 <u>-36</u>		1 OF 1	_	<u> </u>
208 H	oldir				ew Property		ARCHITECT-ENGINEE	:K					2
SITE LOCA	ATION										-O- CALIBRATI	ED PENETROME	TER TONS/FT ²
Balm F NORTHING	<u>Rive</u>	<u>rvie</u> \	<u>v R</u>	oad EASTIN	and County R	oad 672, Ba	<u>lm, Hillsborou</u> g	gh Count	<u>y, F</u>	L	ROCK QUALITY	DESIGNATION 6	
	1				DESCRIPTION OF MA	TERIAL	ENGLIS	H UNITS			PLASTIC	WATER	LIQUID
E	ō.	YPE	IIST. (II	(IIV)	BOTTOM OF CASING	-	LOSS OF CIRCULATI	ON XWX NO	N (FT)		LIMIT%	CONTENT%	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	VEF	SURFACE ELEVATIO		(Approx.)	NATER LEVELS	ELEVATION (FT)	BLOWS/6"	⊗ STAN	NDARD PENETRA BLOWS/FT	ATION
0 _	S-1	ss	24	24	Topsoil Thickne		ayish brown,		120	2 2 3	5-⊗		
	S-2	SS	24	24	moist, loose (SP-SM) FINE S moist to wet, loo	SAND WITH SI ose to medium	LT, dark brown, dense	 		6 6 2 4	6-⊗		
5—	S-3	ss	24	24						7 2 5 7	12-8		
	S-4	SS	24	24	(SP-SM) FINE S medium dense		LT, black, wet,		115	14 8 7 7	14-⊗		
1 -	S-5	SS	11	11						7 24 50/5		●-23.5	
10												\	
								_	110				
	0.0	00	40	47						15			
15 —	S-6	SS	18	17						15 18		33-⊗	
_									105				
					(SP-SM) FINE brown, wet, me		AND WITH SILT,						
	S-7	ss	18	17						9 15 15		30-⊗	
20									100	15			
					(SP) FINE SAN	D trace gravel	light brown						
					saturated, loose		,,			3			
25	S-8	SS	18	2						4 4	8-⊗		
								_	95				
					(CL) SANDY LE								
	S-9	SS	18	15	oun, war pricop	nate nagmente				5 6	10-⊗		
30 -					END OF BORIN	NG @ 30'				4			
	THE	STRA	TIFIC	CATION	LINES REPRESENT 1	THE APPROXIMATE	BOUNDARY LINES BI	ETWEEN SOIL	_ TYPE	S. IN-	SITU THE TRANSITI	ON MAY BE GRAD	UAL.
≟ Mr 3				ws	WD⊠	BORING STARTED	06/28/19		\perp	CAVE	IN DEPTH		
₩ WL(SH	IW)		<u></u>	WL(AC	R)	BORING COMPLE	TED 06/28/19		HAMMER TYPE Manual				
₩ WL						RIG ATV	FOREMAN (Cody H.		DRIL	LING METHOD Mu	d Rotary	

CLIENT							Job #:	BORING #			SHEE	г				
		_			_											
Eisen PROJECT	NAME	er Pi	<u>rop</u>	erty (<u> iroup</u>		41:2512 ARCHITECT-ENGINEE	I B	3-37		1 OF	1		Ge		
208 H	oldir	าตร	Riv	ervie	ew Property											
SITE LOC	ATION	<u>.gc</u>		0	ow reporty	l					-()- CALIBR	ATED PE	ENETROME	TER TONS/FT ²		
Balm	Rive	rvie	w Ŗ	load	and County F	Road 672, Ba	load 672, Balm, Hillsborough County, FL							LITY DESIGNATION & RECOVERY		
NORTHIN	G			EASTIN	IG :	STATION					RQD%		REC%			
			<u> </u>		DESCRIPTION OF M	ATERIAL	ENGLIS		_		PLASTIC LIMIT%		/ATER NTENT%	LIQUID LIMIT%		
F	Š.	ΓYPE	JIST.	<u>N</u> ≿	BOTTOM OF CASING	g —	LOSS OF CIRCULATI	ON MX NO	E) NC		X		•			
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATIO	n 123 feet	(Approx.)	NATER LEVELS	ELEVATION (FT)	BLOWS/6"	⊗ s		D PENETRA	ATION		
0 _					Topsoil Thickne	ess [1.00"]				3						
_	S-1	SS	24	24	(SP) FINE SAN loose to mediu	ND, light brown t m dense	o white, moist,			2	5-⊗					
_	S-2	ss	24	24					120	2 4 7	11-8					
5—	S-3	ss	24	18	(SM) SILTY FII dense	NE SAND, black	, wet, medium			8 9 11 13		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
_	<u> </u>	-		1-	(SP) FINE SAN	ND, reddish brov	vn, wet. verv			15 25		24		85/9		
_	S-4	SS	15	15	dense	,	, , ,			35 50/3						
_	S-5	SS	10	10	(SP-SM) FINE	SAND WITH SI	LT, dark reddish		115	25 50/4				50/4-		
10 —					brown, wet, me	edium dense to v	ery dense									
_																
_									110							
	S-6	ss	18	15						9 9	19-	\otimes				
15 —										10						
-																
_							LT, dark reddish		405							
_				ļ.,	brown, wet, me	edidili delise			105	8						
20 —	S-7	SS	18	18						8 9	17-8)				
_																
_					(SP) FINE SAN	ND, light brown,	wet, loose									
_					, ,	. 5	•		100	9	/					
	S-8	ss	18	4				_		3 4 4	8-⊗					
25 —											\					
					(0.0)			2,52,2								
-						FINE TO MEDIL wet, medium de			95							
-	S-9	ss	18	15						6 5	11-⊗					
30 —		-		+	END OF BORI	NG @ 30'		<i>/////</i>		6						
		'			,	J 4 4			'	' '		•		·		
	TLI	E QTD	\TIE!	^ATION	I I INFS PEDDESENT	THE ADDDOVIMATE	BOUNDARY LINES BE	TWEEN SO!	TVPF	INI 2:	SITH THE TRANS	SITION! N4	AV RE CDAD	IΙΔΙ		
<u></u> ₩L 3		L SIR/	111CH	ws 🗌	WD 🗵	BORING STARTED		LI VYLEIN SUIL	Т		EIN DEPTH	IN IVI	AT DE GRAL	OAL.		
Ψ WL(S			<u>*</u>	WL(AC		BORING COMPLE			-+		MER TYPE Ma r	ıual				
₩ WL						RIG ATV	FOREMAN (Cody H.	T	DRILI	LING METHOD	/lud Ro	tary			

CLIENT							Job #:	BORING	G #		SHEET			
	how	or D	rone	ortv	Croup							,		
PROJECT	T NAME	ei P	ιυμε	zi Ly	Group		41:2512 ARCHITECT-ENGINE	R R	B-38		1 0F			U C
208 H	loldii	ngs	Riv	ervie	ew Property									
SITE LOC	CATION	I									-O- CALIBRA	TED PE	NETROME	ETER TONS/FT ²
Balm NORTHIN	Rive	<u>ervie</u>	w R	oad EASTIN	and County F	Road 672, Bastation	ılm, Hillsborou	gh Cou	inty, F	<u>L</u>	ROCK QUALI RQD% -		GNATION REC%	& RECOVERY
			Î		DESCRIPTION OF M	ATERIAL	ENGLIS	H UNITS			PLASTIC	WA	ATER	LIQUID
	o o	YPE	SAMPLE DIST. (IN)	<u>S</u>	BOTTOM OF CASING		LOSS OF CIRCULAT	10N 2008)	WATER LEVELS ELEVATION (FT)		LIMIT%	CON	TENT% ●	LIMIT%
ОЕРТН (FT)	SAMPLE NO.	SAMPLE TYPE	JE D	RECOVERY (IN)				IOIN ZIII Y	ER LE	BLOWS/6"		ANDADE	PENETR	ATION
	SAME	SAME	SAME	REC	SURFACE ELEVATION		(Approx.)		WATI	BLOV	⊗ 31.		WS/FT	ATION
0	S-1	ss	24	24	Topsoil Thickn		LT, dark reddish		_	4 5	11-⊗			
_					brown, moist, r	nedium dense			_	6 7 5				
_	S-2	ss	24	24	moist to wet, m		LT, dark brown,	Z	- Z	7 10	17-&			
_					(SP-SM) FINE	SAND WITH SI	LT, dark brown,		120	9 4				
5 —	S-3	SS	21	21	wet, medium d		,		_	3 29 50/3			32	50/5
_	S-4	SS	5	5			LT, dark brown,		_	50/5			02	*
_					saturated, very	dense, cement	ed		-					
	S-5	SS	24	24		TO MEDIUM S.	AND WITH SILT,		— - — 115	21 33				72-⊗
10 —	3-3	33	24	24	dark brown, we	et, very derise, t	emented		- -	39 42				72 🛇
									_					
_					(SM) SILTV EII	NE TO MEDIUN	1 SAND block		_					
_					wet, very dens		I SAND, DIACK,		-					
_	S-6	ss	16	16					110	15 31				81/10-🛇
15 —									_	50/4				
_									-					
					(SP-SM) FINE dark brown, we		AND WITH SILT,		_					
_	S-7	SS	10	10	dark brown, we	t, very derise			 105	37 50/4				50/4-×
20 —									- -	50/4				
l <u> </u>									_					
_					(CL) SANDY L	EAN CLAY, ligh	it grayish brown,		_					
_						imestone fragm			_		5			
_	S-8	ss	18	15						5 3 2	🎉			
25 —									_	-				
									_					
_						AY WITH SAND hosphate fragn), greenish gray, nents		_					
_	S-9	SS	18	18	, 20., mai				- 95	WOH 1	⊗-4			
30 —	J-8	00	10	10	END OF BORI	NG @ 30'		1//4	-	3	V •			
	1	I	I	ı	I END OF BOIN	65 00		ı F	_		:		- i	· :
		E STR.					BOUNDARY LINES B	ETWEEN S	OIL TYPI			TION MA	Y BE GRAI	DUAL.
¥ WL 3				ws 🗌		BORING STARTE	06/28/19			CAVE	IN DEPTH			
₩ WL(S	HW)		<u>=</u>	WL(AC	CR)	BORING COMPLE	TED 06/28/19			HAMI	MER TYPE Man ı	ual		
₩ wL						RIG ATV	FOREMAN	Codv H.	1	DRIL	LING METHOD M	lud Rota	arv	

CLIENT						Job #:	BORING#		SHEET			
Eisenh PROJECT	nowe	er Pr	оре	erty (Group	41:2512	B-39	9	1 OF 1			
					ew Property	ARCHITECT-ENGINEER	C					
SITE LOCA	ATION	iyə	IXIV	CIVIC	sw i Toperty	L						
Balm I	Rive	rvie	<u>v R</u>	oad	and County Road 672	<u>, Balm, Hillsboroug</u>	h County,	FL	0			
									RQD% - — - REC% ——			
		Щ	T. (IN)		DESCRIPTION OF MATERIAL	ENGLISH	l l			WATER CONTENT%	LIQUID LIMIT%	
н (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	BOTTOM OF CASING	LOSS OF CIRCULATION	Z X WATER LEVELS	9/S	×	•		
ОЕРТН (FT)	SAMPI	SAMPI	SAMPI	RECO	SURFACE ELEVATION 125	feet (Approx.)		BLOWS/6"	⊗ STAND	ARD PENETRAT BLOWS/FT	TION	
0	S-1	ss	24	24	Topsoil Thickness [1.00"] (SP) FINE SAND, light br	own, moist, loose	125 —	2 3 2	5-⊗			
_	S-2	ss	24	24	(SP-SM) FINE SAND WIT			3 5	10			
					molectic wet, 10000 to me	aram denee		5 6 6				
5 	S-3	SS	24	18			— 120 —	6 8 9	1,4-🛇			
	S-4	ss	24	18	(SM) SILTY FINE SAND, dense to very dense	black, wet, medium		14 12 13		⊗ 25		
	S-5	ss	16	16				12 15 24		20	74/10	
10 —							 115	50/4				
										,		
					(0.000)							
	S-6	ss	18	14	(SP-SM) FINE SAND WIT dark grayish brown, wet, I			14 16		34-⊗		
15 —							110	18				
								5				
20	S-7	SS	18	9			105	5	11-🛇			
	S-8	SS	18	9				4	10-⊗			
25 —							100	6				
					(SC) CLAYEY FINE TO N	MEDILIM SAND						
					greenish gray, wet, loose fragments.							
30	S-9	SS	18	7	-		95	4 5 5	10-⊗			
	ļ	ļ			END OF BORING @ 30'		F	I			<u> </u>	
	THE	STR/	TIFIC	CATION	LINES REPRESENT THE APPROX	(IMATE BOUNDARY LINES BE	TWEEN SOIL TY	PES. IN-	SITU THE TRANSITION	I MAY BE GRADU	AL.	
<u></u> ₩L 3				ws	WD⊠ BORING ST				E IN DEPTH			
₩ WL(SH	HW)		▼	WL(AC	R) BORING CO	MPLETED 06/28/19		HAM	MER TYPE Manual			
₩ WL					RIG ATV	FOREMAN C	ody H.	DRIL	LING METHOD Mud I	Rotary		

CLIENT						Job #:		BORING #	#		SHEET				
Eisenl PROJECT	OW	er Pı	оре	erty (Group	41	:2512 CT-ENGINEER	E	<u>3-40</u>		1 OF	1		Ca	
	oldir	ngs			ew Property	ARCHITE	CI-ENGINEER								
			., D	aad	and County Boad 6	70 Balm Hi	tales I lillah anassah Oassah . El					-O- CALIBRATED PENETROMETER TONS/FT ²			
NORTHIN	G G	rvie	<u>N K</u>	<u>Oau</u> EASTIN	and County Road 67	Z, Baim, Hi	iisborougi	<u>ı Courii</u>	<u>.у, г</u>	L	ROCK QUALITY DESIGNATION & RECOVERY RQD% - — - REC% ——				
			<u> </u>	=	DESCRIPTION OF MATERIAL		ENGLISH		Ē.		PLASTIC LIMIT%		ATER	LIQUID LIMIT%	
(FT)	NO.	E TYPE	E DIST.	ERY (II)	BOTTOM OF CASING	LOSS O	F CIRCULATIO	N 200% N	JON (F	.9,	X		•		
О DEРТН (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)		1 feet (Appro	ox.)	WATER LEVELS	ELEVATION (FT)	BLOWS/6"	⊗ st	ANDARI BLC	D PENETR DWS/FT	ATION	
	S-1	SS	24	18	Topsoil Thickness [1.00 (SP-SM) FINE SAND V moist, medium dense	/ITH SILT, darl	.		120	3 6 7 6	13-⊗				
<u> </u>	S-2	ss	24	18	(SP) FINE SAND, grayi very loose	sh brown, mois	st to wet,	<u></u>		3 2 2 11	4				
5—	S-3	SS	20	20	(SP-SM) FINE SAND V reddish brown, wet, me dense					1 6 40 50/2				46=⊗	
	S-4	SS	11	6	donoc				115	32 50/5				50/5-	
_								_		20					
10—	S-5	ss	24	12						26 32 32				58-🛇	
									110						
	S-6	ss	18	9						5 5	14				
15 —										9					
					(CD) MEDILIM CAND				105		Ì				
					(SP) MEDIUM SAND, b dense	rown, wet, med	aium	_		-					
20 —	S-7	ss	18	5				_		7 12 15		27-)		
									100						
_					(CL) LEAN CLAY WITH wet, firm to stiff	l SAND, greeni	ish gray,								
	S-8	ss	18	18	wot, min to sull					4 4	10-⊗				
25 —										6	/				
									95						
										4					
30 —	S-9	ss	18	18	END OF BODING & 9	יר				1 2 3	5-⊗				
	ļ			ı İ	END OF BORING @ 3	J		ı			ı i	<u>:</u>	<u>:</u>	: i	
	THE	STRA	ATIFIC	CATION	LINES REPRESENT THE APPR	OXIMATE BOUNDA	ARY LINES BET	WEEN SOII	L TYPE	S. IN-	SITU THE TRANS	ITION MA	AY BE GRA	DUAL.	
<u></u> ₩L 3				ws	WD⊠ BORING	STARTED (D 06/28/19 CAVE				/E IN DEPTH				
₩ WL(SH	HW)		<u>*</u>	WL(AC	R) BORING	COMPLETED (06/28/19			HAMMER TYPE Manual					
₩ WL					RIG AT	J	FOREMAN Justin M. DRILLING METHOD Mud Rotary								



NOTES:

- 1 SEE INDIVIDUAL BORING LOG AND GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
- 2 PENETRATION TEST RESISTANCE IN BLOWS PER FOOT (ASTM D1586).
- 3 ELEVATIONS ARE APPROXIMATE

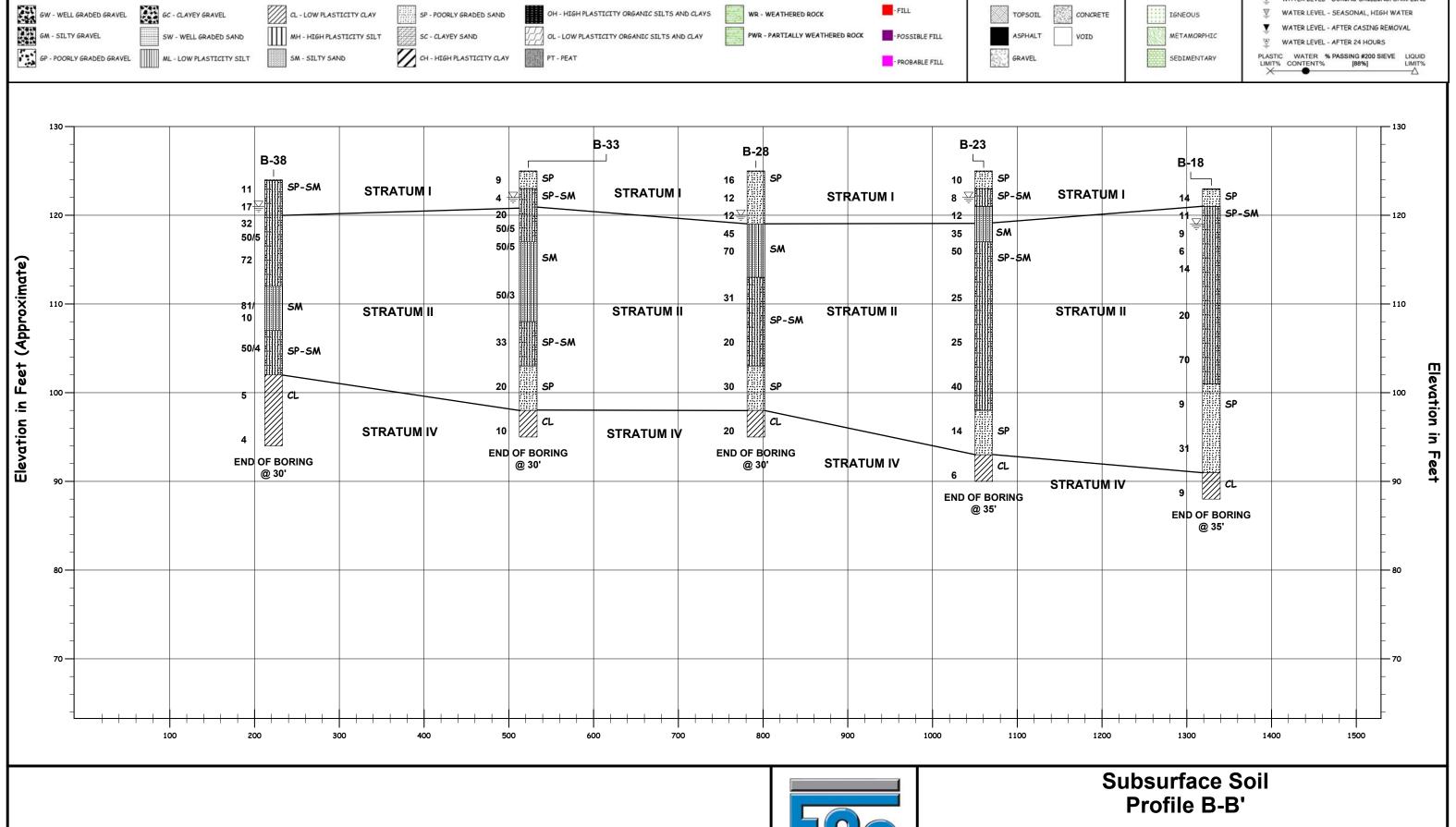
SOIL CLASSIFICATION LEGEND



SURFACE MATERIALS

ROCK TYPES

SYMBOL LEGEND



NOTE: NUMBERS IMMEDIATELY TO THE LEFT OF THE BORING PROFILE ARE SPT-N VALUES.

NOTES:

- 1 SEE INDIVIDUAL BORING LOG AND GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
- 2 PENETRATION TEST RESISTANCE IN BLOWS PER FOOT (ASTM D1586).
- 3 ELEVATIONS ARE APPROXIMATE

SOIL CLASSIFICATION LEGEND

ST - SHELBY TUBE

RC - ROCK CORE

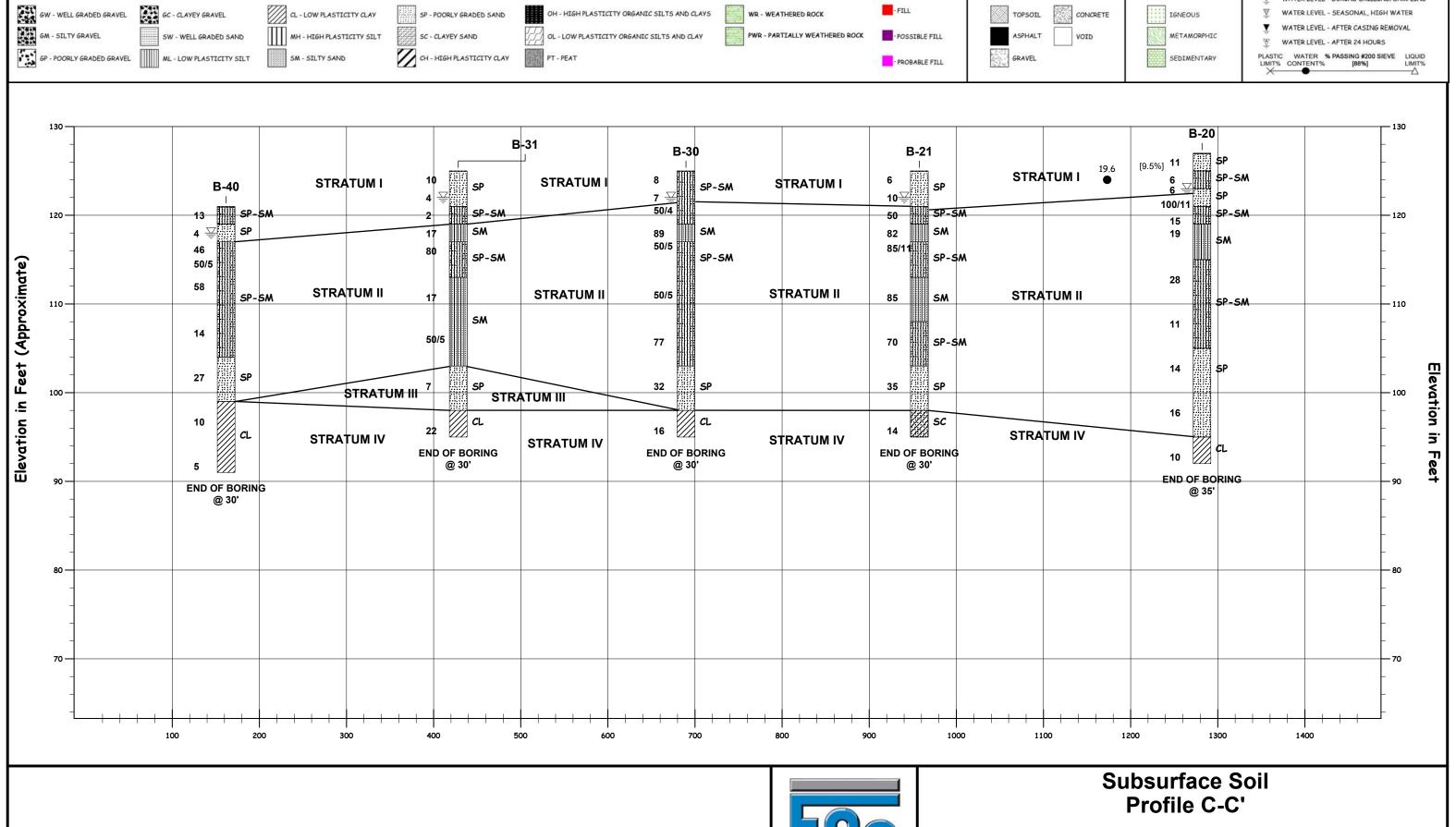
PM - PRESSURE METER



SURFACE MATERIALS

ROCK TYPES

SYMBOL LEGEND



NOTE: NUMBERS IMMEDIATELY TO THE LEFT OF THE BORING PROFILE ARE SPT-N VALUES.

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SOIL CLASSIFICATION LEGEND

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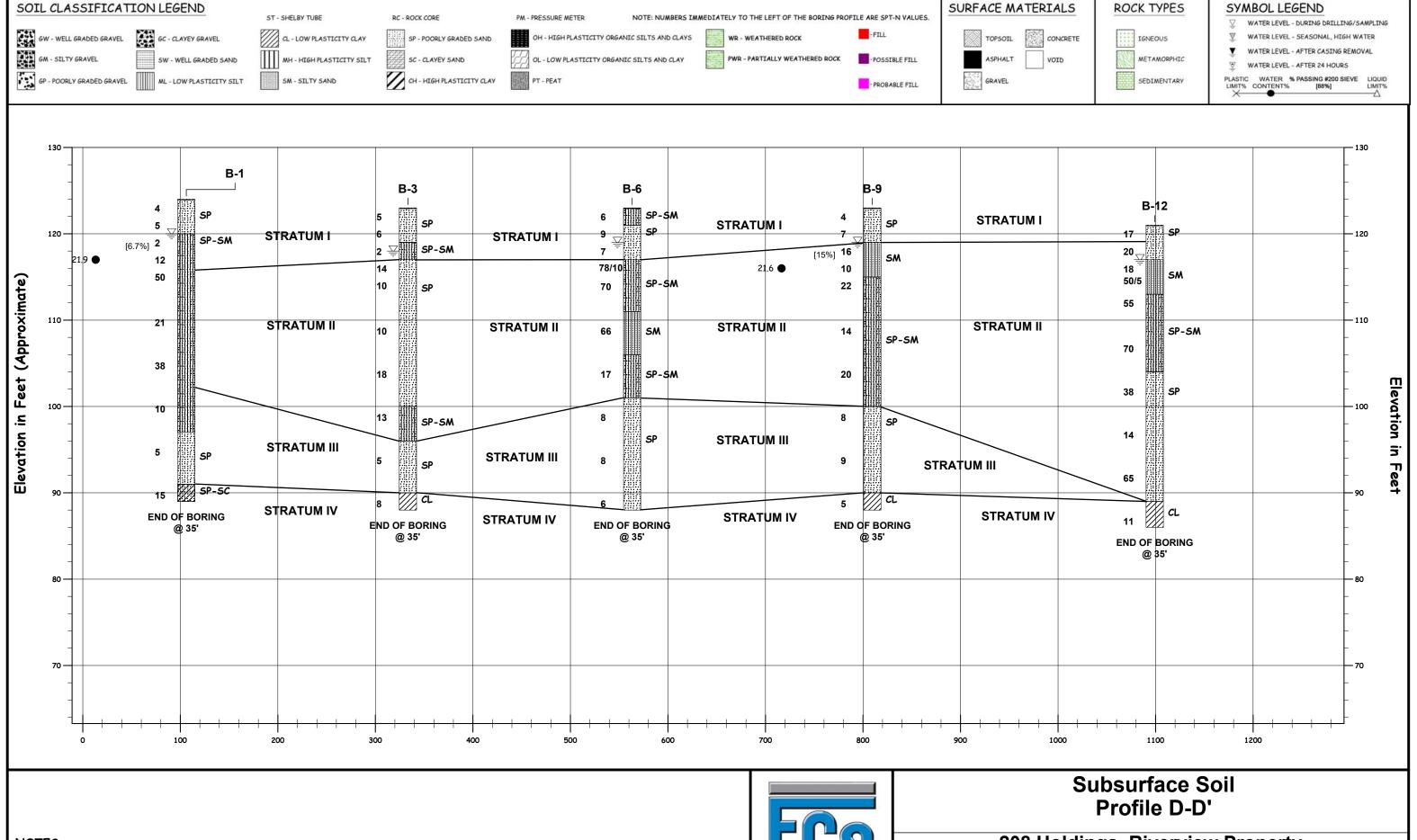
PM - PRESSURE METER



SURFACE MATERIALS

ROCK TYPES

SYMBOL LEGEND

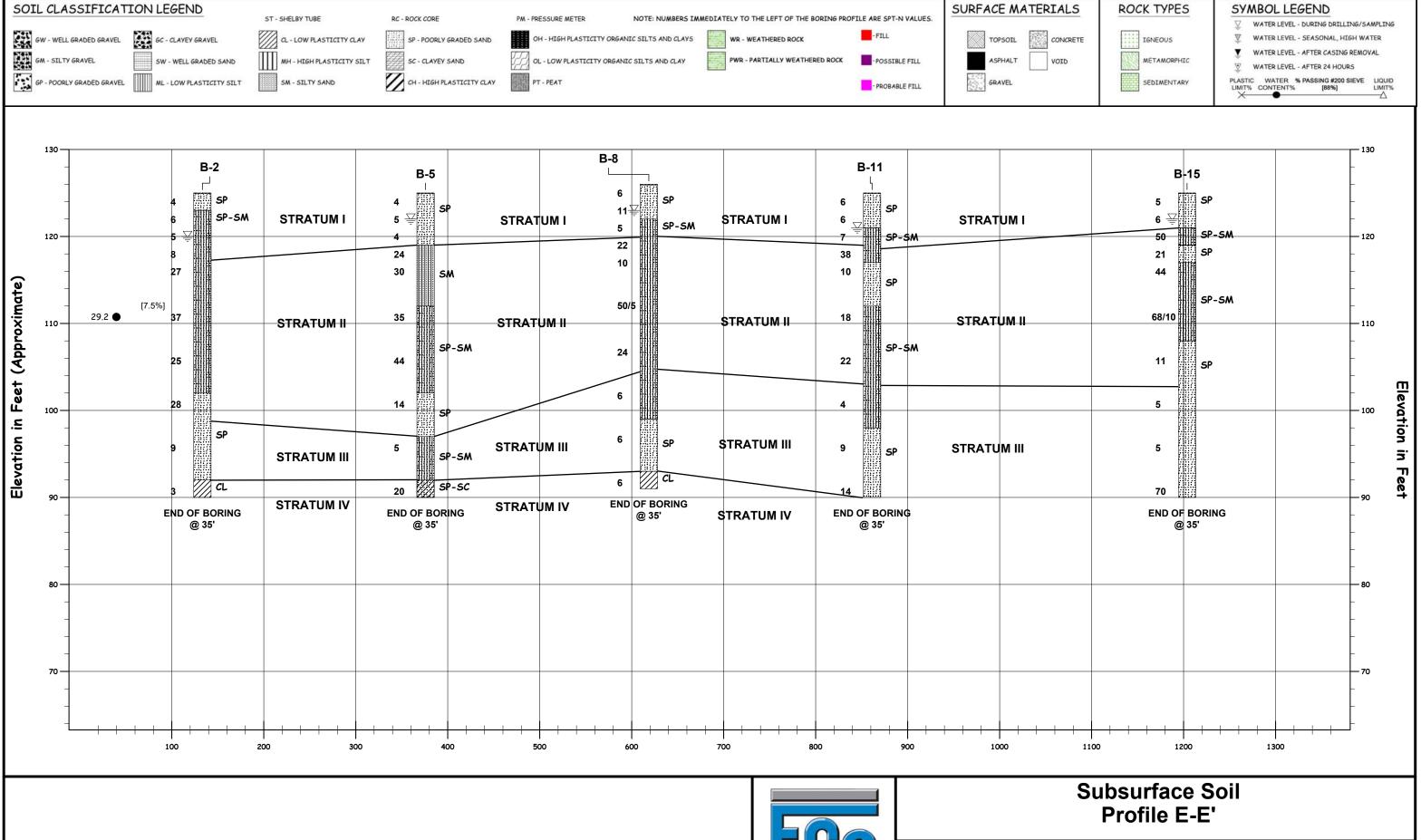


NOTES:

- 1 SEE INDIVIDUAL BORING LOG AND GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
- 2 PENETRATION TEST RESISTANCE IN BLOWS PER FOOT (ASTM D1586).
- 3 ELEVATIONS ARE APPROXIMATE

SOIL CLASSIFICATION LEGEND





NOTES:

- 1 SEE INDIVIDUAL BORING LOG AND GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
- 2 PENETRATION TEST RESISTANCE IN BLOWS PER FOOT (ASTM D1586)
- 3 ELEVATIONS ARE APPROXIMATE



APPENDIX C – Soil Suitability and Groundwater

Estimated Excavation Depth/Elevation for Soil Fill Suitability Estimated Seasonal High Groundwater Table and Elevation

Table 1: Estimate	ed Excavation Depth/E	levation for Soil Fil	l Suitability
Boring No.	*Approx. Elevation (feet)	Estmd Excavation Depth (ft.)	Estmd Excavation Elev (ft.)
B-1	124	33	91
B-2	125	33	92
B-3	123	33	90
B-4	123	33	90
B-5	125	33	92
B-6	123	35+	88
B-7	123	33	90
B-8	126	33	93
B-9	123	33	90
B-10	123	33	90
B-11	125	35+	98
B-12	121	33	88
B-13	123	33	90
B-14	125	35+	90
B-15	125	35+	98
B-16	122	27	95
B-17	124	33	91
B-18	123	33	90
B-19	125	33	92
B-20	127	33	94
B-21	125	27	98
B-22	125	33	92
B-23	123	33	90
B-24	124	27	97
B-25	125	27	98
B-26	121	27	94
B-27	123	27	96
B-28	125	27	98
B-29	125	27	98
B-30	125	27	98
B-31	125	27	98
B-32	125	27	98
B-33	125	27	98
B-34	121	27	94
B-35	121	27	94
B-36	121	27	94
B-37	123	27	96
B-38	124	22	102
B-39	125	27	98
B-40	121	22	99

^{*}Elevations are approximate and should not be used for final design purposes

Table 2: Est	timated Sea	asonal Hig	h Groundwate	er Table ar	nd Elevation
Boring No.	*Approx. Elevation (ft.)	Estmd GWT Depth (ft.)	Groundwater Elevation (feet)	Estmd SHGWT Depth (ft.)	Estmd SHGWT Elev (ft.)
B-1	124	4	120	2.5	121.5
B-2	125	5	120	3.5	121.5
B-3	123	5	118	3.5	119.5
B-4	123	5	118	3.5	119.5
B-5	125	3	122	1.5	123.5
B-6	123	4	119	2.5	120.5
B-7	123	4	119	2.5	120.5
B-8	126	3	123	1.5	124.5
B-9	123	4	119	2.5	120.5
B-10	123	4	119	2.5	120.5
B-11	125	4	121	2.5	122.5
B-12	121	4	117	2.5	118.5
B-13	123	4	119	2.5	120.5
B-14	125	4	121	2.5	122.5
B-15	125	3	122	1.5	123.5
B-16	122	3	119	1.5	120.5
B-17	124	5	119	3.5	120.5
B-18	123	4	119	2.5	120.5
B-19	125	3	122	1.5	123.5
B-20	127	4	123	2.5	124.5
B-21	125	3	122	1.5	123.5
B-22	125	3	122	1.5	123.5
B-23	123	3	120	1.5	121.5
B-24	124	3	121	1.5	122.5
B-25	125	3	122	1.5	123.5
B-26	121	3	118	1.5	119.5
B-27	123	3	120	1.5	121.5
B-28	125	5	120	3.5	121.5
B-29	125	5	120	3.5	121.5
B-30	125	3	122	1.5	123.5
B-31	125	3	122	1.5	123.5
B-32	125	3	122	1.5	123.5
B-33	125	3	122	1.5	123.5
B-34	121	3	118	1.5	119.5
B-35	121	3	118	1.5	119.5
B-36	121	3	118	1.5	119.5
B-37	123	3	120	1.5	121.5
B-38	124	3	121	1.5	122.5
B-39	125	3	122	1.5	123.5
B-40	121	3	118	1.5	119.5

^{*}Elevations are approximate and should not be used for final design purposes

APPENDIX D – Laboratory Testing

Laboratory Testing Summary

Laboratory Testing Summary

Page 1 of 1

		Start	End	Sample Distance (feet)	MC1 (%)		Atterberg Limits ³				Moisture - De			
Sample Source	Sample Number	Depth (feet)	Depth (feet)				LL	PL	PI	Passing No. 200 Sieve ⁴	Maximum Density (pcf)	Optimum Moisture (%)	CBR Value ⁶	Other
B-1														
	S-4	6.0	8.0	2.0	21.9	SP-SM				6.7				
B-2	S-6	13.5	15.0	1.5	29.2	SP-SM				7.5				
B-7	S-3	4.0	6.0	2.0	31.5	SM				16				
B-9		-1.0	0.0	2.0	0110	<u> </u>								
D-3	S-4	6.0	8.0	2.0	21.6	SM				15				
B-20			0.0			<u> </u>								
	S-2	2.0	4.0	2.0	19.6	SP-SM				9.5				
B-24	0.0	4.0			40.0	00.04				40				
	S-3	4.0	6.0	2.0	18.6	SP-SM				12				
B-32	S-3	4.0	6.0	2.0	20.3	SP				4.3				
B-36	S-5	8.0	8.9	0.9	23.5	SP-SM				12				
						<u> </u>								

Notes: 1. ASTM D 2216, 2. ASTM D 2487, 3. ASTM D 4318, 4. ASTM D 1140, 5. See test reports for test method, 6. See test reports for test method

Definitions: MC: Moisture Content, Soil Type: USCS (Unified Soil Classification System), LL: Liquid Limit, PI: Plastic Limit, PI: Plasticity Index, CBR: California Bearing Ratio, OC: Organic Content (ASTM D 2974)

Project No. 41:2512

Project Name: 208 Holdings Riverview Property

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Printed On: Tuesday, July 9, 2019

