GEOTECHNICAL ENGINEERING STUDY REPORT

PROPOSED COMMERCIAL CAMPUS AT FIELDS CORNER SOUTHEAST, PUTNAM COUNTY, NEW YORK

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INTRODUCTION

We have completed our geotechnical engineering study for the proposed commercial campus development in Southeast, Putnam County, New York. The purpose of the investigation was to: 1) research and review available site information; 2) obtain subsurface information by drilling borings and excavating test pits at accessible site areas; and 3) provide recommendations for site preparation, earthwork, foundation design, site retaining walls, and other geotechnical aspects of construction for the proposed development.

No environmental investigation or sampling was performed as part of this work.

REPORT DATUM

Elevations provided in this report are approximate and are based on the elevations provided in drawings entitled "Existing Conditions Map A through F – Commercial Campus at Fields Corner" dated 11/06/2017, last revised 1/04/2021, prepared by JMC Planning, Engineering, Landscaping, Architecture & Land Surveying, PLLC. Unless noted otherwise, elevations given herein are referenced to the above-referenced drawings, which refer to an unknown datum and to surveys prepared by Badey & Watson, Surveying and Engineering, P.C.

For the purposes of our evaluation, we have referenced the survey and elevations used in the previous geotechnical engineering report for the site prepared by SESI Consulting Engineers, and in the current project drawings prepared by JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC, which are discussed below. We understand that a new survey is being completed. Our recommendations provided herein should be reviewed against the latest survey and project drawings upon completion.

SITE DESCRIPTION

The site is located in the town of Southeast, New York, and is bound by:

- Fields Corner Road, Pugsley Road and wetland areas and Route 84 beyond to the east.
- Route 312 and wooded areas to the south.
- Wooded areas and the Croton River beyond to the west.
- Wooded areas to the north.

An aerial photograph of the property is provided on the following page and a site location plan is provided as Figure 1.

The majority of the site is currently occupied by undeveloped, wooded or vegetated areas. A New York State Electric and Gas (NYSEG) right-of-way runs north to south through the western portion of the site. Barrett Road (unpaved) runs east to west through the center portion of the site. A stream with associated wetland areas runs north to south through the site. Portions of

the site are also designated as wetland areas. Several walking trails and rock walls are also located within the site.

Surface grades at the site vary significantly from elevation (el) 540 at the southern portion (near Route 312) to el 530 at the western portion to el 700 at the eastern portion and el 630 at the northern portion.



Aerial View of the Site (Google)

PROPOSED DEVELOPMENT

Based on the drawings titled "Overall Grading Plan" and "Grading Plan A through E", dated 11/6/2017 and last revised 2/1/2021, prepared by JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC (JMC), the proposed development is to consist of the following:

- <u>Proposed Warehouse A</u> Construction of an approximate 303,100 ft² warehouse building with a finished floor elevation (FFE) of el ±649. Fills up to approximately 5 feet and cuts up to approximately 20 feet are proposed to achieve final grades.
- <u>Proposed Warehouse B</u> Construction of an approximate 630,000 ft² warehouse building with a finished floor elevation (FFE) of el ±672.5. Fills up to approximately 27 feet and cuts up to approximately 18 feet are proposed to achieve final grades.
- "Fill" and "cut" retaining walls will be required throughout the site. Proposed walls range in height from 3 feet to 10 feet. Tiered retaining walls consisting of 2 or 3-tiers of 10-foot-high walls are also proposed, to achieve grade changes of up to approximately 33 feet.
- Construction of an above-grade 300,000-gallon water tank at approximate el 664 and water treatment building at approximate el 663.5.
- Construction of on-site wastewater treatment systems (OWTS).
- Construction of five (5) infiltration basins (approximate 89,000 ft² combined bottom of basin footprint).
- Construction of five (5) detention basins (approximate 52,000 ft² combined bottom of basin footprint).
- Construction of new security booths.
- Construction of access drives and on-grade parking lots for cars and tractor-trailers.
- Construction of loading docks.

Based on the above-referenced grading plans prepared by JMC, fills up to approximately 28 feet and cuts up to approximately 22 feet are proposed to achieve final grades throughout the site.

At the time of this report, we have not been provided information regarding the anticipated structural loads for the proposed structures. Based on our experience, we have assumed typical column and floor loads associated with similar one-story warehouse structures for our analysis. Once it becomes available, we should review the final structural loading information for each building so that we may evaluate and modify, if necessary, the recommendations provided herein.

REVIEW OF AVAILABLE INFORMATION

We reviewed historic topographic maps, regional geologic information, and the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for the site vicinity. Pertinent information obtained from the above documents is summarized in the following paragraphs.

Site History

The 1892 historic United States Geological Survey (USGS) map indicates the southern portion of the site is located within historic marshland. The two streams are shown in the approximate same locations they exist today. A copy of the USGS map is provided as Figure 2.

Historic Google Earth aerial imagery shows small structures along Barrett Road and east of Pugsley Road and agricultural fields, between 1993 and 2004.

Regional Geology

According to the Surficial Geologic Map of New York, the surficial geology is till consisting of clay, silt-clay, boulder clay. A copy of the surficial geology map is provided as Figure 3A.

According to the Geologic Map of New York, the bedrock at the northern portion of the site consists of biotite-quartz-plagioclase gneiss. The bedrock at the southern portion of the site consists of amphibolite, pyroxenic amphibolite and hornblende gneiss. A thrust or reverse fault is also depicted to the northeast of the site. A copy of the geologic map is provided as Figure 3B.

According to the USGS Karst Map, carbonate rocks buried beneath less than 50 feet of glacially derived insoluble sediment are mapped approximately 1 mile to the southwest of the site. A copy of the USGS Karst Map is provided as Figure 4.

Flood Map

According to the flood insurance rate maps (Map No. 36079C0142E and 36079C0134E, effective date March 4, 2013) published by the Federal Emergency Management Agency (FEMA), the site lies within "Zone X – no shading", which is defined as "areas determined to be outside the 0.2% annual chance floodplain". Copies of the referenced flood insurance rate maps are provided as Figure 5.

PREVIOUS GEOTECHNICAL REPORT BY OTHERS (SESI)

We reviewed the Geotechnical Investigation Report prepared by SESI Consulting Engineers (SESI) dated 12 June 2018 and last revised 26 June 2020. Copies of the SESI logs and locations plans are provided as Attachment A and the key findings from this report are summarized below:

- Several investigations consisting of drilling twenty-nine (29) borings, excavating one hundred forty-four (144) test pits and performing ninety-three (93) infiltration tests were performed between 2018 and 2020.
- Topsoil thickness was reported to range from approximately 2 to 18 inches. A 1-inchthick asphalt layer underlain by a 4-inch-thick to 8-inch-thick gravel subbase was reported in the borings performed in the roadway.
- A 2-foot-thick to 8-foot-thick fill layer was encountered in three test pits in the southern portion of the site along Pugsley Road. The fill was reported to generally consist of sandy silt. Abandoned utilities and a former strip footing were encountered in the fill layer in the test pits.
- Natural soils were encountered directly beneath the surficial materials and fill, where
 encountered, and were reported to consist of light brown clayey silt or sand with varying
 amounts of gravel, cobbles and boulders. The sandy soils were described as medium
 dense and the silty soils were described as medium stiff to hard. Cobbles and boulders
 generally increased in frequency with depth.
- Competent bedrock was not encountered within the termination depths of the borings and test pits. Decomposed to weathered rock identified as Mica Schist was encountered in a few test pits at depths ranging from 2 feet to 5 feet below existing surface grade.
- Groundwater was reported in some test pits at depths ranging from 1.5 feet to 10 feet below existing surface grade. Groundwater was reported in the building and roadway borings at depths ranging from 5 feet to 15 feet below existing surface grade. In the proposed septic and stormwater areas, the groundwater was reported at depths between 1.5 feet and 10 feet below existing surface grade. Three test pits were left open for a 24-hour period for groundwater observation. Water was measured to be approximately 0.25 feet to 1 foot below existing surface grade at the end of the 24-hour period.
- The reported unfactored percolation rates for the proposed stormwater basins generally ranged between 0.75 inches per hour to 31 inches per hour. The percolation rates for the proposed septic fields generally ranged between 2 minutes per inch to 120 minutes per inch.

SUBSURFACE INVESTIGATION FOR THIS STUDY

The geotechnical field investigation for this study consisted of the following:

• Drilling 5 borings, identified as AB-1 through AB-5, within the proposed Building A footprint.

- Drilling 12 borings, identified as BB-1 through BB-12, within the proposed Building B footprint.
- Drilling 34 borings, identified as SLB-1 through SLB-34, within proposed site areas and along proposed retaining wall alignments.
- Installing 4 temporary groundwater level observation wells.
- Excavating 20 test pits, identified as LTP-1 through LTP-20, within the proposed building footprints and within proposed site areas.

The locations of all Langan borings, groundwater level observation wells and test pits, and the SESI borings and test pits are shown in Figure 6. Borings and test pits were performed in areas that were accessible at the time of our investigation.

Permission to access the site was obtained from Lincoln Equities Group, LLC prior to performing our field work. The One-Call utility mark-out request was performed by the drilling and excavation subcontractors prior to initiating the field work.

The boring and test pit locations were laid out by our field engineer using handheld GPS equipment, and surface elevations at the boring and test pit locations were taken from the plan titled "Boring and Test Pit Location Plan" dated 6/25/2020 prepared by SESI.

The borings and test pits were completed under the full-time observation of a field engineer from our office and under the direct supervision of our project Professional Engineer. Our field engineer maintained logs of the explorations, classified soil and rock encountered, and obtained representative material samples.

Borings

The Building A borings, identified as AB-1 through AB-5, and the Building B borings, identified as BB-1 through BB-12, extended to depths between approximately 20 feet and 45 feet below surface grades. The site borings, identified as SLB-1 through SLB-34, extended to depths between approximately 15 feet and 30 feet below surface grades. Borings were drilled by Craig Geotechnical Drilling, Co., Inc. (Craig) using an ATV-mounted drill rig with mud-rotary drilling techniques.

Soil samples were obtained and Standard Penetration Tests (SPTs) were performed using a standard 2-inch outside-diameter split-spoon sampler driven by 140-lb safety or automatic hammers in accordance with ASTM D1586. Sampling and SPTs were performed continuously in the upper 12 feet and at 5-feet intervals thereafter. Rock was cored for 10 feet with a NX-sized core barrel, where encountered. The boreholes were backfilled with soil cuttings and grouted using bentonite.

The soil samples were classified in accordance with the Unified Soil Classification System (USCS). The soil samples were sent to our storage facility in Whippany, NJ for further classification and laboratory testing. The samples will be stored for 16 months from the date of investigation.

Groundwater Level Observation Wells

Four temporary groundwater level observation wells were installed in completed boreholes BB-2, BB-7, SLB-19 and SLB-28. The wells consisted of 15-foot-long to 20-foot-long, 2-inch-diameter (solid and screened) PVC pipes and groundwater levels were monitored throughout the field investigation.

Test Pits

The exploratory test pits, identified as LTP-1 through LTP-20, were excavated throughout the proposed building footprints and site areas. All test pits were excavated by CG Contracting using a Kobelco SK 140 SR LC excavator. The test pits extended to depths of between approximately 12 feet and 15 feet below surface grades. The test pits were backfilled with the excavated materials upon completion.

Laboratory Testing

Soil samples from the 2021 Langan investigation were classified and examined in the field by a Langan geotechnical engineer. Representative samples were selected and tested to determine engineering properties and to confirm field classifications. The laboratory test results from the Langan investigation are included in Appendix F. Laboratory test results from the SESI investigation are provided in Attachment A. The laboratory tests from all subsurface investigations (Langan and SESI) included:

- Organic Content Determinations
- Natural water content determinations (ASTM D2216)
- Fines content passing No. 200 sieve (ASTM D1140)
- Atterberg Limit Determinations (ASTM D4318)
- California Bearing Ratio (CBR) Tests (ASTM D1883)
- Moisture Density (Modified Proctor) Tests (ASTM D1557)
- Expansion Index Tests (D4829)

SUBSURFACE CONDITIONS

Based on the results of the borings and test pits performed for this study and the previous investigations, the site subsurface conditions generally consist of a surface layer of topsoil overlying successive strata of natural soils, glacial till, and bedrock. Fill was encountered at localized areas of the site.

The following sections describe the encountered strata and observed groundwater conditions. Simplified, graphical presentations of the subsurface conditions encountered within the Building A borings and Building B borings are presented in Table 1A and Table 1B, respectively. Simplified subsurface profiles within the proposed building footprints are provided as Figure 7A and Figure 7B.

Topsoil

Topsoil generally consisting of brown to dark brown sand or silt with root fibers and varying amounts of gravel and clay was encountered in the majority of the borings and test pits. The topsoil was typically observed to range in thickness from approximately 6 inches to 24 inches. The SESI report indicated topsoil thickness ranged from approximately 2 inches to 18 inches.

Laboratory testing was performed on several samples from the topsoil and soils immediately below the topsoil to determine the organic content. The results are summarized in the table below.

Depth	Organic Content (%)
0 ft to 2 ft	2.0 to 6.6
2 ft to 4 ft	1.0 to 1.1
4 ft to 6 ft	0.7

Typical Results of Organic Content Determinations

Fill

No fill materials were encountered in the Langan borings and test pits. During the SESI investigation, a 2-foot-thick to 8-foot-thick fill layer was encountered in three test pits in the southern portion of the site along Pugsley Road. The fill generally consisted of sandy silt. Abandoned utilities and a former strip footing were encountered in the fill layer in the test pits. A 6-inch-thick buried topsoil layer was encountered in SESI test pit TP-301 at 4.5 feet below existing surface grade.

Natural Soils (Clay/Silt/Sand)

A stratum of natural soils consisting of alternating layers of brownish gray clay, silt and sand with varying amounts of gravel, cobbles, and boulders was encountered beneath the topsoil layer in

all borings and test pits. The clayey, silty and sandy soils were first encountered at depths ranging from approximately 0.5 feet to 2 feet below existing grades. Boulders encountered in this layer were observed to be between approximately 1 foot to 3 feet thick.

The sandy soils were typically found to be loose to very dense as evidenced by SPT N-values ranging from 2 blows/foot to 78 blows/foot, excluding split spoon refusal values (average SPT N-value of 18 blows/foot). The clay and silt were found to be very soft to very stiff as evidenced by SPT N-values ranging from weight of hammer to 30 blows/foot, and typically above 5 blows/foot (average SPT N-value of 15 blows/foot). The unconfined compressive strengths (q_u values) as measured by the field pocket penetrometer for the clay samples, varied typically between 1,000 pounds per square foot (psf) and 7,000 psf.

The natural soils stratum was found to range in thickness from approximately 4 feet to 30 feet.

These natural soils were classified as CL, ML, SM and SC in accordance with USCS. Typical index properties determined from laboratory testing performed on these natural soils are provided in the table below.

	Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content (%)	USCS Class.
Sand	12 - 14	18 – 21*	13 - 17*	1 - 7*	35 - 50	SC, SM
Clay	11 - 15	22 - 25	14 - 15	7 - 11	50 - 61	CL

Typical Results of Identification Tests (Natural Soils)

* - Atterberg limit determinations performed on fine-grained portion of the sample.

Glacial Till

Glacial till generally consisting of grayish brown silt or clay with varying amounts of sand, gravel, cobbles and boulders was encountered below the natural soils in most of the borings and test pits. The top of the glacial till layer was encountered at depths ranging between approximately 4 feet to 20 feet below existing grades, corresponding to approximate el 615 to el 680. Boulders encountered in this layer were observed to be between approximately 0.5 feet to 4 feet thick.

The glacial till was typically found to be medium dense to very dense as evidenced by SPT N-values ranging from 13 blows/foot to refusal (greater than 100 blows/foot) (average SPT N-value of 40 blows/foot, excluding refusal values). The unconfined compressive strengths (q_u values) as measured by the field pocket penetrometer varied typically between 3,000 psf and 9,000 psf.

Typical index properties determined from laboratory testing performed on one sample from the glacial till layer are provided in the table below.

	Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	USCS Class.
Till	9.3	22	14	8	CL

Results of Identification Tests (Glacial Till)

All borings and test pits where glacial till was encountered were terminated in this layer.

Bedrock

A schist rock strata was encountered and cored for 10 feet in boring BB-1. The top of the schist rock was encountered at approximate el 625 (or about 25 feet below surface grade). The rock was typically described as dark gray to bluish gray micaceous schist. The recorded total rock core recovery values ranged between 85% and 87%, and the rock quality designation (RQD) values ranged between 75% and 82%.

During the SESI investigation, competent bedrock was not encountered within the termination depths of the borings and test pits. Decomposed to weathered rock identified as Mica Schist was encountered in a few test pits in proposed site areas north of the proposed Building A and west of the proposed Building B.

In the test pits north of Building A, TP-4A and TP-3A, SESI identified "weathered rock or boulder" and "possible weathered rock or bedrock" at depths ranging between approximately 3 feet and 7.5 feet, corresponding to approximate el 639.5 to el 644.

In the test pits west of Building B, TP-18B and TP-20A, SESI identified "silt with weathered Mica Schist" and "decomposed Mica Schist" at a depth of approximately 5 feet, corresponding to approximate el 619 to el 629.

Groundwater

Groundwater levels were monitored in the observation wells installed in completed boreholes BB-2, BB-7, SLB-19 and SLB-28. The stabilized groundwater levels in the wells are summarized in the table below.

Observation Well	Approximate Top of Well Elevation	Depth to Stabilized Groundwater Level	Stabilized Water Level Elevation
BB-2	EI 666	8 feet	EI 658
BB-7	El 669.5	14.5 feet	EI 655
SLB-19	EI 662	2.5 feet	EI 659.5
SLB-28	El 630.5	12.5 feet	El 618

Groundwater conditions were also monitored during the excavation of the test pits. Where encountered, the groundwater levels were observed to be typically between approximately 4 feet to 10 feet below surface grades (or approximate el 629 to el 676).

Groundwater levels are subject to seasonal fluctuations. A summary of the Langan groundwater level measurements in the observation wells is provided in Table 2A. A summary of the groundwater level observations in the test pits is provided in Table 2B.

EVALUATION AND RECOMMENDATIONS

Our geotechnical recommendations for earthwork, foundation and slab support, and other geotechnical aspects of construction are presented below.

Site Clearing and Preparation

Prior to commencement of grading or fill placement, any miscellaneous trash, debris, or other unsuitable materials should be removed from the site. All debris and vegetation should be properly disposed off-site in accordance with applicable regulations.

Clearing and grubbing of all trees (including removal of any associated root systems) and vegetation designated for removal should be performed.

We recommend the following guidelines for removal of the topsoil within the project site:

- Topsoil should be completely stripped from the proposed warehouse building footprints and 10 feet beyond the building limits.
- Topsoil should be completely stripped in proposed pavement areas receiving less than 5 feet of new fill.

- In pavement areas receiving more than 5 feet of new fill to raise grades, the topsoil layer can be left in place subsequent to removal of vegetation and root mats and performance of subgrade preparation procedures recommended below.
- The topsoil should be stockpiled and protected from erosion. Topsoil should be evaluated by the Landscape Architect for re-use in landscape areas.

Topsoil stripped from the proposed development areas can be mixed with the cut natural soils (using a tentative 50/50 blend) and used as fill in pavement areas as determined by a qualified geotechnical engineer. The proportions of topsoil and natural soils will be dependent on the amount of organics present in the topsoil layer. The resulting mixture should contain less than 3% (by weight) organics. Topsoil containing roots and a significant amount of organics should not be mixed to create fill. This mixture containing topsoil should not be used as fill within 3 feet of proposed pavement finished grades.

If necessary to help balance the site from an earthwork perspective, the reuse of topsoil as fill or in areas where topsoil has been left in-place as described herein requires that a sufficient grubbing and root raking program be implemented to remove the roots and vegetative matter from the soils. In addition, the Contractor will be required to completely remove tree stumps and associated root mass.

Rock walls present throughout the site should be removed prior to placing fill. Specific requirements regarding boulder fill are further discussed in the Engineered Fill section herein.

All clearing and stripping activities should be performed in strict accordance with the approved soil erosion and sediment control plan prepared for the project. All site preparation work should be performed in accordance with any environmental regulations and requirements established for the site as well as all Local, State, and Federal regulations. Dust control measures should be implemented during construction to limit the generation of airborne particulates.

All work should also be performed so as not to adversely impact neighboring structures, adjacent roadways, and utilities to remain. Protection of these elements should be provided as necessary during the course of all construction activities at the site.

Subgrade Preparation

After performing the aforementioned site preparation work, and prior to placing compacted fill to raise site grades or constructing finished surfaces in on-grade supported areas (building slabs, pavement, and sidewalks), all site soil within the proposed development areas should be proofrolled with three (3) overlapping coverages of a vibratory roller having a minimum static drum weight of 5 tons. Additional proofrolling coverages should be performed in any areas deemed necessary based on observations made by a qualified inspecting geotechnical engineer. Soft areas identified during proofrolling should be excavated and replaced with approved, compacted fill.

If subgrade areas become wet and disturbed, the surficial soils may no longer be suitable for use in fill placement unless sufficiently dried. Should soft or unsuitable subgrade soils be observed as identified by the inspecting Geotechnical Engineer during construction and sufficient time to dry the material is not feasible, these materials should be excavated and replaced with approved compacted backfill.

Prior to constructing finished surfaces (building slabs, asphalt and concrete pavement), we also recommend that the subbase be proof-rolled using a fully loaded tri-axle dump truck in the presence of a qualified geotechnical engineer. Soft areas identified during proof-rolling should be excavated and replaced with approved, compacted fill.

We also recommend that the site be graded and drainage swales and berms be used to convey surface runoff away from fill areas. During the cutting and filling, construction equipment should follow consistent traffic patterns throughout the site to minimize disturbance of the subgrade during wet periods.

The Contractor's ability to successfully work the site soils, combined with the weather conditions and the time of year during the site preparation and filling phases of construction, will have a significant impact on timely project completion. Care should be taken to prevent disturbance of the proof-rolled areas and softening of these materials prior to finished construction. At a minimum, all subgrade areas should be temporarily sloped and sealed by rolling with a smooth drum roller at the end of each working day, as necessary, so as to maximize surface water runoff, and minimize potential ponding and infiltration.

For pavement and building slab areas, the aggregate subbase material can be placed as soon as practical upon completing site grading and subgrade preparation work as a protective layer. Prior to floor slab construction and pavement installation, this aggregate subbase layer will have to be repaired, re-graded, and re-compacted. Alternatively, a 6 to 12-inch-thick layer of processed aggregate or imported sand and gravel mixture can be placed as a working platform over the building pad footprint prior to foundation and utility construction. The additional aggregate would then be placed above the working platform for slab subbase immediately prior to constructing the warehouse slabs.

Filling of Low-Lying Areas

Low-lying areas of the site are susceptible to ponding and are anticipated to contain soft soils and sediment. If any low-lying areas are too be filled, we expect that these areas will require removal of wet/soft organic soils and sediment, and replacement with approved, compacted fill.

The Contractor should expect to have to dewater any low-lying areas holding water prior to preparing the subgrade in these areas and placing and compacting fill material.

Following removal of any encountered wet/soft organic soils, a layer of crushed stone can also be placed at the bottom of the excavation prior to placing and compacting fill material. The bottom

of the excavation may consist of fine-grained soils that will be sensitive to moisture. Care should be taken to prevent softening of the fine-grained soils prior to fill placement. We recommend that geotextile fabric be placed at the bottom of the excavation prior to placing crushed stone and that it be wrapped completely around the stone and aggregate.

The excavations should then be backfilled in accordance with recommendations provided in the Engineered Fill section of this report.

Soil Stabilization

Fine-grained soils (silt and clay) or coarse-grained soils with appreciable amounts of fines will be encountered at the proposed building and pavement subgrade throughout the site and will be used as fill throughout the site.

To improve workability, reduce moisture, and increase the strength of these subgrade soils for supporting construction equipment, the Contractor can stabilize the soils by using either Portland cement or Lime additives.

Cement stabilization and lime stabilization involve in-place mixing of the clayey soils with an appropriate amount of cement or lime, followed by proper compaction and curing time. The stabilized soil will result in a reduced moisture content and improved workability of the soil. Portland cement additives can be used to improve the properties of both silt and clay based soils; lime additive treatment requires the presence of clay with which to react to improve the clay based soil properties, and is not effective in improving primarily silt based fine grained soils.

The percentage of cement or lime by weight per square yard of soil should be determined by the Contractor and may be modified by the Geotechnical Engineer if field conditions warrant. All lime used for this stabilization should be high-calcium lime, containing a minimum 90 percent active lime content by weight. The Contractor should use approved single or multiple pass rotary speed mixers to uniformly mix soil, cement, or lime, and water to the required depth. Stabilization should be performed only when ambient air temperature is above 40 degrees Fahrenheit, and when the soil is not frozen. Do not perform this work during wet or unsuitable weather, or when freezing weather is anticipated within 24 hours of mixing/compaction.

The cement-soil and lime-soil mixtures should be initially compacted with a sheeps-foot roller, and then completed with surface compaction using a smooth drum roller to seal the fill material.

The stabilized soil should be allowed to properly cure and gain adequate strength prior to placing successive lifts of fill or traversing the area with construction equipment. Curing may take several days (typically 3 to 5 days) depending on soil type, initial moisture content, and weather conditions. The Contractor should conduct a proofroll on the top of each lift using a fully-loaded tandem dump truck for observation by a qualified Geotechnical Engineer prior to the placement of the next successive lift.

Recommended Additive Quantities for Stabilization:

• Cement or Lime: 4% to 8% (by weight)

A laboratory and field cement and/or lime test program should be performed prior to construction if such stabilization measures will be utilized to confirm proper admixture percentages and construction means and methods.

Excavation

Based on the latest JMC grading plans, we understand that cuts up to approximately 22 feet will be required to achieve proposed grades. In addition, excavations below existing grades will be necessary to reach the bearing elevations for footings and utilities.

Very dense soil with cobbles and boulders should be expected to be encountered during excavation. It may be necessary for the Contractor to use a ripper blade to loosen up the soil to assist in making cuts. In addition, the Contractor should be prepared to break large boulders using a hydraulic hoe-ram.

Engineered Fill

Reuse of Existing On-site Soils

The on-site soils having a maximum particle size of 6 inches in diameter can be used as compacted fill to raise grades or backfill foundation and utility excavations. The use of larger aggregate should only be done as approved by a qualified geotechnical engineer based on inspection of conditions encountered during construction.

The majority of the on-site soils have a relatively high percentage of fines and are expected to be difficult to handle, place, and compact if they become excessively wet. The Contractor should make provisions to dry portions of the excavated material such as by discing/air drying and soil stabilization as necessary, prior to compaction to an acceptable moisture content as determined by the Geotechnical Engineer.

Excavated materials which are at acceptable moisture contents should be reused as fill as soon as possible to minimize exposure to weather. Stockpiled materials that are planned for reuse should be protected or sealed by the Contractor to keep the materials from becoming wet.

The on-site soil contains cobbles and boulders. On-site crushing is anticipated to be necessary to create a suitable gradation for this material. We recommend that the maximum particle size in the fill being placed not exceed 6 inches in diameter. However, the use of larger aggregate can be done as approved by a qualified geotechnical engineer based on inspection of conditions encountered during construction. The cobbles and boulders should be placed in a manner to

avoid "nesting" and formation of voids. Any voids that do occur between cobbles and boulders during placement should be completely filled with smaller gravel/cobble fill and soil.

Boulder fill (maximum dimension of 3 feet) should not be placed within the following:

- 3 feet of proposed pavement subgrade level.
- 3 feet of the proposed footing subgrade level.
- 3 feet of ground surface in landscaped areas.
- 2 feet of proposed utility inverts.

Imported Fill

Imported fill should consist of a relatively well-graded mixture of sand and gravel with not more than 15 percent (by weight) finer than the No. 200 sieve. The use of any imported fill containing a higher percentage of fines would need to be evaluated by a qualified geotechnical engineer during construction.

Suitable fill should be free of organics and other deleterious materials. Any approved imported fill should contain no contamination in exceedance of the applicable New York State DEC standards. In addition, the fill material should not originate from any site subject to federal or state environmental regulatory requirements for site remediation or permitting of hazardous or petroleum waste or material including but not limited to underground storage tanks, state hazardous waste sites, brownfield sites, New York City 'E' designated sites, national priority list sites, state voluntary cleanup, or landfill sites. The Contractor should provide documentation of compliance prior to delivery of any fill to the site.

Grain size distribution and Modified Proctor compaction tests (ASTM D1557) should be done on representative samples of the backfill and imported fill material proposed by the Contractor. Imported fill should be placed in accordance with the above-described procedure for on-site soils used as compacted fill.

Fill Placement and Compaction

Structural fill (i.e. beneath the building and pavement areas) should be placed in uniform lifts and compacted to at least 95 percent of the material's maximum dry density as determined by the Modified Proctor Compaction Test (ASTM D1557). Fill placed in landscape areas should be compacted to at least 92 percent of the material's maximum dry density as determined by the Modified Proctor Compaction Test (ASTM D1557). On-site soils and imported select fill should be placed in maximum 12-inch-thick loose lifts and compacted using a smooth drum vibratory roller having a minimum static drum weight of 5 tons. Because the site contains silty/clayey soils, we recommend that the Contractor also utilize a sheeps-foot roller to compact the fill. Any fill containing a significant amount of crushed boulders should be compacted using a larger roller having a minimum static drum weight of 10 tons.

Smaller compaction equipment (i.e. walk-behind trench roller or jumping jack compactor) and thinner lifts (maximum 6 to 8 inches thick) should be used in areas of limited maneuverability.

The water content at the time of compaction should be within 3 percentage points of the optimum water content. All fill placement should be subject to observation and testing by a qualified geotechnical engineer.

No fill material should be placed on areas where free water is standing, on frozen subgrade areas, or on surfaces which have not been approved by a qualified geotechnical engineer.

Settlement Plate Monitoring

Fills up to approximately 28 feet will be required throughout the site. Where new fills exceed 15 feet in height within the proposed building footprints or other critical site areas, we recommend that settlement plates be installed so that the magnitude and rate of settlement can be monitored during construction. The settlement plates should be installed at the subgrade level subsequent to site clearing and subgrade preparation, and prior to fill placement. Additional settlement plates should be installed at/near the finished subgrade surface subsequent to completing the fills. The settlement plates should be monitored to evaluate settlement of the underlying soils and the fill under its own weight. Settlement is expected to occur as the fill is being placed, and generally be complete within 1 month after completion of the fill operations.

Foundation and Slab Support

Shallow Foundations

The proposed buildings can be supported on shallow foundations bearing on approved, compacted fill or proof-rolled native soils. A maximum allowable bearing pressure of 5 kips/ft² can be used for design of foundations.

It is critical that a qualified geotechnical engineer be present during the foundation excavation work to verify adequate bearing is achieved. After the bearing surface has been approved, it should be protected until the footing is poured.

Perimeter strip footings should have a minimum width of 24 inches and interior strip footings should have a minimum width of 18 inches. The minimum dimension for isolated footings should be 3 feet by 3 feet.

All exterior footings or footings within an unheated portion of the building must be constructed below the frost depth of at least 4 feet below the lowest adjacent grade.

For mass concrete poured against approved compacted soil subgrade, a coefficient of sliding friction of 0.35 can be used.

Subgrade Preparation

Prior to footing construction, all footing bearing areas should be level and proofrolled and compacted using either a large smooth drum roller or a double-drum walk-behind vibratory compactor, such as a Wacker RT 82-SC or equivalent. Footing areas must be inspected and approved by a qualified geotechnical engineer prior to steel reinforcement or concrete placement. Any soft, loose, or unsuitable soils identified by the inspecting geotechnical engineer during proof-rolling should be removed and replaced with approved compacted fill. The on-site soils are extremely sensitive to water exposure. Care should be taken to prevent the softening of these materials prior to concrete placement for footings.

If the foundation excavations will be left open for more than one day or excavated during a wet time of the year, we recommend that the bottom of the footing trench be over-excavated and a 4-inch-thick layer of compacted ³/₄-inch clean, crushed stone or a 3-inch-thick lean concrete mud mat be placed to protect the footing subgrade from softening due to water and disturbance prior to placement of concrete.

The Contractor should be responsible for maintaining all footing subgrades in their as-approved condition until footing concrete is placed and the excavations are properly backfilled. Rainwater, snow, ice or trash/debris should not be allowed to accumulate in the excavation. If subgrade areas become wet and disturbed, they may no longer be suitable for foundations. Footings should be constructed as soon as possible following subgrade approval by the geotechnical engineer to minimize possible deterioration.

Floor Slabs

The building ground floor slab can be conventional slab-on-grade construction bearing on proofrolled/compacted granular fill soil subgrade areas. The floor slab can be designed using a modulus of subgrade reaction of 150 lbs/in³.

Slab areas should be proof-rolled with a smooth drum roller having a minimum static drum weight of 5 tons. Slab bearing areas must be inspected and approved by a qualified geotechnical engineer prior to steel reinforcement or concrete placement. Any soft, loose, or unsuitable soils identified by the inspecting geotechnical engineer during proof-rolling should be removed and replaced with approved, compacted fill.

We recommend that, at a minimum, a vapor barrier for moisture control having a minimum thickness of 15 mils be provided beneath the floor slab. The vapor barrier can possibly be eliminated from warehouse floor slab areas that do not have special floor coverings (i.e. tile, carpeting) and are not humidity controlled areas, subject to approval by the Architect and Owner.

A 6-inch-thick layer of ¾-inch clean, crushed stone or processed aggregate should be provided beneath the floor slab to act as a capillary break and protect the soil subgrade. The crushed stone or processed aggregate should be placed beneath the vapor barrier.

Construction and/or saw cut joints should be provided as necessary for crack control.

Below-Grade Walls

Permanent below-grade walls will be required for the proposed loading dock areas. The belowgrade walls are expected to bear on compacted fill or natural soils. Below-grade walls can be designed using an equivalent fluid pressure of 100 lbs/ft³ where the structure provides lateral restraint at the top of the wall. This parameter presumes the retaining wall backfill meets the minimum requirements for approved compacted fill previously discussed, that full drainage is provided behind the wall, and that there are not any surface surcharge or structure loads at the top of the wall. Adjustment of the pressures should be made by the designer where appropriate to consider these factors. Presuming the aforementioned fill, fill placement, and compaction requirements, a coefficient of at-rest earth pressure $K_o = 0.55$ can be used in evaluating surcharge loads transmitted to the wall.

For mass concrete poured against approved compacted soil subgrade, a coefficient of sliding friction of 0.35 can be used.

Passive resistance for approved compacted on-site soils can be calculated using an equivalent fluid unit weight of 120 lbs/ft³, which includes a reduction factor of 2. Extreme care and proper construction sequencing must be taken during construction in areas where passive resistance is required for wall support. This includes filling simultaneously on both sides of the wall, and not performing future excavations without properly bracing the wall.

Building Settlements

Settlement for the proposed building is estimated to be less than 1 inch provided the subgrade preparation work described herein is performed and after the mass fill settlement is complete. Differential settlement of adjacent structure columns is estimated to be less than $\frac{34}{100}$ inches.

<u>Seismicity</u>

Based on the latest New York State Building Code and the United States Geological Survey, both proposed buildings should be designed using the following parameters:

- Site Class = D
- Maximum Considered Earthquake Ground Motions:
 - 0.2 Second Spectral Response Acceleration, %g: $S_s = 24.0$
 - 1.0 Second Spectral Response Acceleration, %g: $S_1 = 5.8$

The above ground motions should be adjusted for site class "D" effects using coefficients $F_a = 1.6$ and $F_v = 2.4$.

Based on the relative density of the site soils as inferred from the boring data, liquefaction is considered to be unlikely.

Fill Retaining Walls

Depending on the proposed wall height, we expect that the retaining walls may be designed as one of the following wall systems:

- Geogrid reinforced modular block wall systems such as Mesa®, Keystone®, or Versa-Lok® systems.
- Geogrid reinforced stone-filled wire-formed basket retaining wall systems such as the SierraScape by Tensar or the Terramesh Gabion by Maccaferri.
- Gravity Block retaining wall.

For the retaining walls that require significant wall heights, the fill retaining walls will need to be designed using a batter; the batter should be taken into account when designing the site because the top of the wall will be offset from the bottom of the wall by several feet.

<u>Wall Backfill</u>

We recommend that imported select granular fill having a fines content less than 15% be utilized as backfill behind these "fill" site retaining walls, including in the entire reinforced zone of geogrid reinforced walls.

At this time, we recommend that the fine-grained (silt/clay) on-site soils not be used within the reinforced zone. However, the existing granular soils are anticipated to be acceptable as fill within the reinforced zone but should be subject to review and approval by the Wall Designer.

Cut Retaining Walls

Cut retaining walls may be designed as one of the following wall systems:

- Gravity walls such as a large block wall system (as manufactured by Recon® or Redi-Rock®).
- Soldier beam and concrete panel walls.
- Concrete cantilever walls.

The use of gravity wall systems needs to be considered with respect to any excavation/grading restrictions that may exist adjacent to the wall alignments. We recommend that the gravity wall systems which are retaining soil only be used for retaining walls with maximum exposed wall face heights less than 12 feet.

For the soldier beam and panel walls, we recommend that the beams be drilled in and socketed into the dense glacial till with concrete. Grouted drilled-in permanent tie-back soil anchors can be

used to restrain the soldier beams where necessary. Any proposed tie-backs having components outside the site property line will require prior permission from the adjacent property owners.

A cut retaining wall can alternatively be designed as a fill retaining wall (as described above) by over-excavating into the slope provided there is sufficient space between the proposed retaining wall and the nearest property line or grading restriction to allow for sloped excavation without adversely impacting the adjacent property. This also presumes that the temporary cut slope behind the wall can be maintained during construction of the wall so as not to disturb the soil outside the site property line.

Foundation Support

At this time, we anticipate that the foundation support for shallow foundation supported proposed retaining walls can be designed by the Wall Designer in accordance with the Foundation Support section of this report.

Wall Subgrade Preparation

We recommend that the wall foundation subgrade be prepared in accordance with the Site Grading, Fill Placement, and Subgrade Preparation sections of this report. All wall foundation subgrade should be prepared by proofrolling with a large smooth drum roller or an approved double-drum walk-behind vibratory compactor. Any soft areas should be removed and replaced with approved compacted fill.

Wall Drainage

The site retaining walls should be designed with a perforated pipe wrapped with a non-woven geotextile fabric behind the wall to assist in the relief of water pressure. The perforated pipe should be connected to weep holes near the base of the wall, daylighted on both ends of the wall, or drained into a nearby permanent drainage structure. The wall drainage should be coordinated with the Site/Civil Engineer.

<u>Wall Design</u>

The Contractor's proposed retaining wall types, construction means and methods, and supporting design calculations, signed and sealed by a Professional Engineer licensed in the State of New York, should be submitted to the Owner and the Geotechnical Engineer. Global Stability should be included as part of the Wall Designer's calculations.

We recommend that a guiderail and fence be installed at the top of the retaining walls and should be part of the design of the retaining walls.

Permanent Soil Slopes

We recommend that the permanent cuts/fills in soil have a maximum slope of 3H:1V. For soil slopes steeper than 3H:1V, we recommend that erosion control matting be used to provide sufficient soil stabilization. We recommend against excavating or constructing cut/fill slopes steeper than 2H:1V.

Fill Slopes

Fill placement for fill slopes should be done in horizontal lifts. The fill should be benched into existing slope faces and keyed at the toe of the slope.

Where feasible, we recommend that each lift be constructed beyond the proposed slope face and cut back after slope construction to ensure proper compaction of the slope face.

<u>Cut Slopes</u>

All cut slopes should be uniform. Cut slopes may need to be flatter than 3H:1V and/or benched if groundwater seepage is observed at the slope face. The purpose of the flatter slopes and/or bench is to reduce the potential for erosion and instability. In addition, permanent erosion control matting may be necessary. The Contractor should be careful not to over-excavate or create steeper slopes than designed. Placement and compaction of fill to replace over-excavations and/or to flatten steep slopes is difficult and should only be done under the guidance of a qualified geotechnical engineer.

Surface drainage including drainage ditches and berms located at the top of the cut slopes should be constructed as deemed necessary by the Site/Civil Engineer.

Soil slope cutting work should be done under the full time observation of a qualified geotechnical engineer so the exposed conditions can be evaluated and determinations made if any supplemental recommendations regarding slope excavation or other stabilization measures are necessary.

Erosion Control

To reduce and slow weathering, erosion, and surficial sloughing of temporary and permanent slopes, we recommend that the following erosion control measures be implemented:

- Seeding and other slope protection should be implemented immediately following construction of the cut. Temporary erosion control measures must be provided during construction activities and maintained until permanent erosion control measures are functional.
- Excavation of cut slopes should be limited during the wet season to minimize erosion.

- Concentrated surface water or significant sheet flow should not be discharged onto temporary or permanent slopes.
- Groundwater seepage, if encountered during construction, should be collected and discharged at appropriate off-site locations.
- Surface water runoff must be properly contained and channeled using drainage ditches, berms, swales, and/or siltation fences.
- Removal of existing natural vegetation should be minimized and limited to active construction areas.
- Surface water and drainage from impervious surfaces must be directed to appropriate stormwater facilities.

Seepage Control

We anticipate that pockets of groundwater seepage could be encountered as the slopes are excavated. This is relatively common when excavating cut slopes in compact glacial till soils. These localized areas of groundwater seepage typically "dry up" soon after the cut slope is completed as the water stored within permeable areas drains out. However, it is possible that areas of wet soil will persist and continue to seep.

We recommend that areas of persistent wet soil be repaired by placing at least 6 inches of sand and gravel filter blanket material topped with about 6 inches of quarry rock (2-inch to 4-inch size). The purpose of the sand and gravel filter is to help control against piping and loss of native soil materials on the slope, which could lead to surficial slope failure if not controlled. Some overexcavation of the existing soils will be necessary to install the sand and gravel filter and quarry rock.

In larger areas where persistent water seepage is present, we recommend that lateral drains be installed. Each lateral drain should consist of a perforated pipe installed parallel to the slope within a trench excavated beneath the seep into the underlying relatively impermeable glacial soils. The perforated pipe should be placed near the base of the trench. The trench should then be backfilled with ¾" clean, crushed stone. The down slope side of the trench should be lined with an impermeable plastic liner. The perforated pipe should be discharged into the site's stormwater drainage system.

Where groundwater seepage is near the base of the slope, an underdrain at the toe of the slope should be installed. Where groundwater seepage is relatively shallow, cut-off trenches at the top of the slope can be used.

Detention Basin Construction

We understand that several detention and infiltration basins are proposed to be constructed at the site. We recommend that the side slopes for the proposed ponds be cut or constructed no

steeper than 3H:1V. The side slopes and basin bottom should be compacted to form a stable base and side slopes. The Contractor should avoid over-excavating the side slopes and/or causing instability of the side slopes.

Fill placed to construct stormwater basin embankments should be placed in horizontal lifts. Fill can consist of on-site or imported soil and should be placed in 12-inch thick loose lifts and compacted to at least 95% of the material's maximum dry density as determined by the Modified Proctor Compaction Test (ASTM D 1557). The water content at the time of compaction should be within 3 percentage points of the optimum water content. Backfill placed in the excavations for inlet and outlet pipe installations should be placed in 8-inch thick loose lifts and compacted to at least 95% of the material's maximum dry density.

The Contractor should establish vegetation immediately after constructing the basins to minimize erosion.

Stormwater Infiltration and Septic Fields

We understand that four (4) on-site wastewater treatment systems, if ive (5) detention basins and five (5) infiltration basins are proposed to be constructed at the site.

The SESI investigation included infiltration testing for the proposed stormwater basins and septic fields. The unfactored percolation rates generally ranged between 0.75 inches per hour to 31 inches per hour. Percolation testing was also performed for the proposed septic fields. The percolation rates generally ranged between 2 minutes per inch to 120 minutes per inch. The infiltration and percolation test details are provided in Attachment A.

Utilities

Excavations will be required for the installation of proposed utilities and associated structures. All excavations should be properly sloped and/or braced in conformance with applicable OSHA regulations including, but not limited to, temporary shoring, utilizing trench boxes and/or proper benching.

Prior to construction, we recommend field locating any existing utilities that are to remain or that must be temporarily maintained during construction.

We expect site excavations for proposed utilities to be constructed in native soils or new compacted fill. Exposed utility trenches in soil should be proof-rolled with at least three (3) overlapping coverages of a double-drum walk-behind vibratory compactor such as a Wacker RT 82-SC or equivalent. Any soft or unstable areas identified by the proof-rolling should be removed and replaced with compacted fill. Backfill in utility excavations should meet the

previously discussed requirements for engineered fill, with fill placement and compaction performed as previously discussed.

If unsuitable bearing material is encountered at the proposed utility subgrade elevation, we recommend that 1 foot of over-excavation and replacement with approved bedding material be performed beneath all utilities. The actual extent of removal should be determined by a qualified inspecting geotechnical engineer based on the ground conditions encountered at the time of excavation.

We recommend that a minimum 6 inch layer of ¾-inch clean, crushed stone be placed above the soil subgrade as pipe bedding material and extend up to the springline of the pipe. Material consisting of select granular fill or ¾-inch clean, crushed stone should be placed from the springline of the pipe up to 1 foot above the utility pipe. The remainder of the trench can be backfilled using on-site soils in accordance with the recommendations provided herein.

Temporary Excavation Support and Sloped Excavations

Temporary excavation stability is a function of several factors including the presence of groundwater, the type and density of the various soil strata, the depth of excavation, surcharge loadings adjacent to the excavation, and the length of time and weather conditions while the excavation remains open. Sidewall instability should be expected when groundwater seepage is encountered and in areas of loose sandy soils, if any.

All excavations should be properly sloped and/or braced in conformance with applicable OSHA regulations including, but not limited to, temporary shoring, utilizing trench boxes and/or proper benching. The Contractor should be responsible for maintaining the stability of the soil excavations.

Groundwater Control During Construction

The majority of the excavations for the proposed building foundations and the site utilities are anticipated to be above the measured groundwater levels. However, water seepage was noted in test pit LTP-3 within the proposed Building A footprint, approximately 3 feet higher than the proposed FFE (or at approximate el 652), and in test pits LTP-15 and LTP-19 within or near the proposed Building B footprint, approximately 0.5 feet to 3.5 feet higher than the proposed FFE (or at approximate el 676). We anticipate that this water is perched on underlying less permeable soil materials, and that additional perched water may be encountered in other site areas as well. During site cutting to reach proposed grades, we expect that encountered water will lower with the advanced excavation and "dry up" within the cut areas. Groundwater can be expected to fluctuate with weather, seasonal conditions, construction activity, or groundwater pumping. Surface runoff and groundwater seepage with higher groundwater levels should be expected during wet weather conditions. We anticipate that most collected storm water runoff and groundwater seepage can be controlled using conventional submersible pumps in

conjunction with gravel sumps.

Based on the latest grading plans, excavations for the proposed stormwater ponds are anticipated to reach depths of up to 16 feet. During our investigation, groundwater was encountered at depths ranging from approximately 2.5 feet to 14.5 feet below existing grades. Refer to the Subsurface Conditions section and Tables 2A and 2B of this report for specific groundwater depths and elevations encountered at each observation well and test pit location.

Groundwater was encountered within the areas of the proposed stormwater basins north of Building A and north of Building B at levels above bottom of proposed basin elevations and is expected to be present with the basins following construction.

We understand that these basins are intended to consist of wetland ponds with extended detention relying on a groundwater source, so that water being present within the basins is consistent with the current intent for the proposed stormwater management design for the site. During construction, dewatering will need to be performed to lower the water level below the basin bottoms, so that the basins can be constructed in the dry. At this time, the proposed design for these basins is not yet available; recommendations regarding temporary and permanent groundwater level control with the proposed wetland pond basin areas should be reviewed with the civil engineer once the grading and drainage plans for these areas are further advanced.

We recommend that the Contractor anticipate encountering groundwater during the deep stormwater pond excavations that will require more substantial pumping effort in conjunction with continued maintenance of gravel sumps, seepage control, and erosion protection along the side slopes. We recommend that the sump pits and sumps be installed in advance of proposed cuts in order to facilitate removal of groundwater from the clay ahead of time, making excavation easier and cleaner. If groundwater is encountered during the excavation, we recommend that the contractor install temporary perimeter ditches or other subsurface drains to collect or intercept groundwater to facilitate deeper excavation.

Water should not be allowed to pond and sit over soil subgrades. Proper grading, trenching along with pumping are needed to maintain the site in a dry and workable condition, and to prevent disturbance of the bearing subgrades.

The pumping, handling and discharge of all dewatering effluent should be performed in accordance with all applicable regulations and any environmental requirements for the site.

Pavement Design and Construction

From a geotechnical perspective, we anticipate the parking and access drive for the proposed development can consist of on-grade supported asphalt pavement, subsequent to pavement subgrade preparation consisting of proof-rolling of natural soils, and raising grades by placing approved compacted fill.

We have provided recommendations for asphalt pavement minimum sections for the proposed development based on estimated traffic loading for the proposed development provided in the SESI Pavement Design Memo and the anticipated subgrade soils. We have analyzed and designed asphalt pavement sections for the proposed development following the flexible pavement design guidelines given in the AASHTO Guide for Design of Pavement Structures. Refer to Appendix G for pavement design calculations.

Recommended pavement sections provided in this report have been reviewed based on assumed traffic information. The recommended minimum pavement sections should also be reviewed with respect to any specific tenant requirements, once the tenants are all identified, to determine if any increases in the pavement section thicknesses are required.

The following summarizes the data utilized in our calculations:

= 20 years
= 4.2
= 2.5
= 90%
= 0.45 (flexible pavement)
= 0.35 (rigid pavement)
= 2,000 cars/day
Drives and Truck Courts)= 250 trucks/day
Drive) = 510 trucks/day
+ 3,490 car/day

Our calculations indicate the following pavement sections to be suitable for this project following the specified pavement subgrade preparation.

RECOMMENDED FLEXIBLE PAVEMENT MINIMUM SECTIONS (LIGHT DUTY – CAR PARKING)				
Material Thickness				
Bituminous Concrete Surface Course (9.5M64)	1½ inches			
Bituminous Concrete Binder Course (19M64)	2 inches			
Processed Aggregate Base Course (Subbase)	8 inches			

RECOMMENDED FLEXIBLE PAVEMENT MINIMUM SECTIONS (HEAVY DUTY – MINOR ACCESS DRIVES AND TRUCK COURTS)			
Material Thickness			
Bituminous Concrete Surface Course (9.5M64)	2 inches		
Bituminous Concrete Binder Course (19M64)	2 inches		
Bituminous Concrete Base Course (25M64) 3 ½ inches			
Processed Aggregate Base Course (Subbase) 8 inches			

RECOMMENDED FLEXIBLE PAVEMENT MINIMUM SECTIONS (HEAVY DUTY – MAIN ACCESS DRIVE)				
Material Thickness				
Bituminous Concrete Surface Course (9.5M64)	2 inches			
Bituminous Concrete Binder Course (19M64)	2½ inches			
Bituminous Concrete Base Course (25M64)	4 inches			
Processed Aggregate Base Course (Subbase) 10 inches				

The recommended pavement sections use the Superpave mixes in accordance with NYSDOT specifications. The processed aggregate base course should be Type 2 subbase material consisting of stone which is the product of crushing ledge rock in accordance with NYSDOT specifications.

For any paving outside the subject property limits, the minimum pavement sections specified by the Town of Southeast or NYSDOT should be utilized.

We recommend a concrete pavement section for loading dock pads and aprons as follows:

Material	Thickness
4,500 psi concrete	7 inches
Compacted Aggregate Base	8 inches

The concrete pavement should include reinforcement consisting of the following:

• Grade 60 No. 3 deformed bars – slab reinforcement longitudinal and transverse spacing should be a maximum of 16 inches on center each way. Reinforcement should be properly supported during concrete placement.

Steel Reinforcement should be placed so that 3 inches of concrete coverage is provided between the reinforcement steel and the compacted aggregate base. The exterior concrete should have a water content ratio of 0.45 and 6% air entrainment.

Special consideration can be made for concrete pavements in areas that will be subject to repeated impacts from trailer landing gear (i.e. dolly pads and dock loading/unloading aprons) to include fiber reinforcement. We recommend that the design of the concrete pavement consider the following when using fiber reinforcement in addition to the steel reinforcement:

- Fibers should be macro-synthetic.
- We recommend fibers be obtained from one of the following suppliers:
 - Tuf-Strand SF by Euclid Chemical Company
 - CL95 Macro Fiber by PNA Construction Technologies, Inc.
 - Forta-Ferro by Forta Corporation
- A minimum fiber dosage rate of 7.5 lbs/cy should be used with an 8 inch thick slab and the steel reinforcement specified above.
- The use of fibers will affect workability of the concrete during placement. Chemical admixtures such as water-reducers and super plasticizers can be used.
- Fibers should not be mixed at the site.
- The use of fiber reinforcement should be identified on the site plan.

Sawcut joints should be provided as necessary for crack control. At this time, we recommend that control joints be spaced 15 feet apart in both directions. The control joint spacing should be determined once the site plan drawings, including the dimensions of the loading and approach

slab area, are finalized. We recommend that epoxy coated dowels be utilized at the construction joints.

Pavement subgrade preparation work should be inspected by a qualified geotechnical engineer. Should isolated areas exhibit unsuitable conditions, the isolated areas should be over-excavated to a depth as determined by the Geotechnical Engineer and immediately replaced with approved compacted fill or crushed stone.

CONSTRUCTION DOCUMENTS AND INSPECTION / QUALITY ASSURANCE

Technical specifications addressing earthwork and all other work related to the building foundations and site preparation/construction should be prepared by our firm. In addition, the foundation recommendations given herein should be included in the structural drawings for the project. Our firm should be provided with and review any Contractor submittals related to foundation work, site preparation, and soil importation for conformance with the recommendations given in this report.

During construction, it is critical that all geotechnical related work be performed under qualified geotechnical engineering inspection/monitoring/testing in order to ensure proper and timely implementation of the recommendations given in this report. We recommend that Langan perform this work to verify proper implementation of our recommendations and to maintain continuity of our responsibility for this project. Our field engineer would be able to immediately address unexpected or unusual conditions that may be encountered and provide remedial recommendations. This work includes: site preparation and proof-rolling, soil slope stabilization, compacted fill placement, footing and slab subgrade preparation, pavement subgrade preparation, utility construction and backfill placement, and asphalt paving.

CLOSURE/LIMITATIONS

The Contractor is responsible for construction quality control, which includes satisfactorily constructing the foundation system and any associated temporary works to achieve the design intent while not adversely impacting or causing loss of support to neighboring property, structures, utilities, roadways, etc. Construction activities that can alter the existing ground conditions such as excavation, fill placement, foundation construction, ground improvement, dewatering, etc. can also induce stresses, vibrations, and movements in nearby structures and utilities, and disturb occupants. Contractors are solely responsible to ensure that their activities will not adversely affect the structures and utilities, and will not disturb occupants. Contractors must also take all necessary measures to protect the existing structures, utilities, etc. during construction. By using this report, the Owner agrees that Langan will not be held responsible for any damage to adjacent structures, utilities, etc.

This report presents our recommendations regarding the geotechnical aspects of design and construction for the proposed warehouse development located in the Southeast, Putnam County,

New York. This report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the site, or by natural events such as floods, earthquakes, slope instability, or groundwater fluctuations.

The conclusions and recommendations provided in this report result from our interpretation of the geotechnical conditions existing at the site inferred from a limited number of borings and test pits, as well as site information provided to our firm. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. Actual subsurface conditions may vary. Langan reviewed field and laboratory data and then applied our professional judgment to render an opinion about subsurface conditions throughout the site. Recommendations provided are dependent upon one another and no recommendation should be followed independent of the others. Our report, conclusions, and interpretations should not be construed as a warranty of the subsurface conditions.

Any proposed changes in structures or their locations should be brought to Langan's attention as soon as possible so that we can determine whether such changes affect our recommendations. Information on subsurface strata and groundwater levels shown on the logs represent conditions encountered only at the locations indicated and at the time of investigation. If different conditions are encountered during construction, they should immediately be brought to Langan's attention for evaluation, as they may affect our recommendations. This report has been prepared to assist the Owner, Site/Civil Engineer, Architect, and Structural Engineer in the design process and is only applicable to the design of the specific project identified. The information in this report cannot be utilized or depended on by engineers or contractors who are involved in evaluations or designs of facilities (including underpinning, grouting, stabilization, etc.) on adjacent properties which are beyond the limits of that which is the specific subject of this report.

Environmental issues (such as permitting or potentially contaminated soil and groundwater) are outside the scope of this study and should be addressed in a separate evaluation.

\\langan.com\\data\\WPW\\data2\190065201\Project Data_Discipline\Geotechnical\Reports\2021 Report\Report Text\2021-06-11 LEG Brewster Geo Rpt.docx

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- Table 1BSummary of Building B Borings
- Table 2ASummary of Groundwater Measurements in Wells
- Table 2BSummary of Groundwater Measurements in Test Pits

LANGAN
#190065201 Proposed Commercial Campus at Fields Corner Southeast, New York

SOUTH **BUILDING A** NORTH AB-5 AB-1 AB-2 AB-3 AB-4 ref PROPOSED FFE AT EL 649 qu=2.5 tsf qu=2.5 tsf qu=2.25 tsf qu=2.5 tsf qu=2.75 tsf qu=4.5 tsf 8 BOULDER qu=2.75 tsf qu=4.5 tsf qu=2.25 tsf ----qu=3.5 tsf 8 qu=4.5 tsf ref

COLOR
LEGEND
TOPSOIL
SILTY SAND
[SM/SP-SM/SW-SM]
SILT
[ML]
SAND, CLAYEY SAND
[SC]
SILTY CLAY, SANDY CLAY
[CL]
TILL
SCHIST
BEDROCK

TABLE 1A - SUMMARY OF BUILDING A BORINGS

637					
636					25
635					
634					
633					
632					
631					33
630				 	

LEGEND

ELEVATION IN FEET

Stablized Groundwater Level Measured in Wells

- **qu** Unconfined compressive strength as measured in the field by the pocket penetrometer.
- ref Split-spoon sampler refusal value
- (OW) Groundwater Level Observation Well Location

<u>NOTES</u>

- 1 Subsurface information provided is generalized and is shown for illustration proposes only.
- 2 Subsurface conditions presented herein represent our interpretation of the borings.
- 3 Refer to boring location plan for actual locations.
- 4 Refer to boring logs for actual soil descriptions and details.
- 5 The N-values tabulated are in blows/ft.

	SOUTH					BUI	ILDING B					NORTH	
	BB-1	BB-2 (OW)	BB-3	BB-4	BB-5	BB-6	BB-7 (OW)	BB-8	BB-9	BB-10	BB-11	BB-12	
	650	666	654	678	665	685	668	690	672	691	687	663	surface elevation
	35	37	32	32	35	37	22	32	21	42	37	37	completed depth (ft)
691 690										8			
689								19		U			
688										20			
687								19			7		
686 685								17		17	17		
684						12		17		15	17		
683								19			13	İİ	
682						20				ref			
681 680						47		24		BOULDER	ref		
679						47	-	38		25	11		
678						47							
677				8							ref		
676 675				29		19	-			52			
674				20		39		64		52			
673				30									PROPOSED
672									-		69		FFE AT EL 672.5
671 670				14					4	47			
669				59		ref		45	14				
66 8													
667				57			5		9		49		
665		4					17		8	77			COLOR
664					10	65		44	qu=0.75 tsf				LEGEND
663		15					19		6				
662		26		ref	18		40		qu=1.5 tsf		64	12	TOPSOIL
660		20			29		10		22	48	BOULDER	22	
659		16				ref	4	73					SILTY SAND
658		.			23							9	[SM/SP-SM/SW-SM]
657		- 23		ref	10		10		20		42	46	ен т.
ш 655		42			10		•		29	44		10	I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Z 654					43	72						36	
Z 653			2										SAND, CLAYEY SAND
0 652			17	95			9		rof		57	31	[SC]
A 650		ref							161	60			SILTY CLAY, SANDY CLAY
룹 ₆₄₉	2		9		80	55							[CL]
648													
647 646	11		26	ret			38					ret	
645	18	77	8										
644					41								SCHIST
643 642	6		5									49	BEDROCK
641	8											40	
640		77											
639	9				ref								
638 637			37									59	
636													
635		50											
634	ref				ref								
632			90									ref	
631													
630	BOULDER	49											
629	ref		25		ref								
627			qu=4.5 tsf									37	
626													
625													
624	REC=87%		49										
623 622	NQD-05%		45										
621													
620													
619 618	REC=82%												
617	100-1070												
616													
615													J

#190065201 Proposed Commercial Campus at Fields Corner Southeast, New York

NOTES

- 1 Subsurface information provided is generalized and is shown for illustration proposes only.
- 2 Subsurface conditions presented herein represent our interpretation of the borings.
- 3 Refer to boring location plan for actual locations.
 - 4 Refer to boring logs for actual soil descriptions and details.
 - 5 The N-values tabulated are in blows/ft.

LEGEND

- Stablized Groundwater Level Measured in Wells
- $\mathbf{qu} \qquad \text{Unconfined compressive strength as measured in the field by the pocket penetrometer.}$
- ref Split-spoon sampler refusal value
- (OW) Groundwater Level Observation Well Location

Southeast, New York

#190065201

		SLE	8-28	BI	B-7	BE	3-2	SL	B-19	
		TOP OF WELL @ EL	630.5	TOP OF WELL @ E	EL 669.5	TOP OF WELL @ EL	_ 666	TOP OF WELL @ E	L 662	
DATE	TIME	DEPTH TO WATER ft	WATER LEVEL ELEVATION ft	DEPTH TO WATER ft	WATER LEVEL ELEVATION ft	DEPTH TO WATER ft	WATER LEVEL ELEVATION ft	DEPTH TO WATER ft	WATER LEVEL ELEVATION ft	REMARKS
28-Apr-21	13:20	13.3	617.2							SLB-28 well installed.
29-Apr-21	13:30	13.3	617.2							
30-Apr-21	13:15	13.3	617.2	14.9	654.6	8.0	658.0			BB-2 and BB-7 wells installed.
3-May-21	12:00			14.9	654.7					
4-May-21	11:30					7.9	658.1			
6-May-21	14:00					8.0	658.0			SLB-19 well installed and developed.
7-May-21	13:30	12.4	618.1	14.4	655.1			2.7	659.3	
9-May-21	13:40	12.5	618.0	14.3	655.2			2.6	659.4	

TABLE 2A - SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS IN OBSERVATION WELLS

NOTES

1- Temporary groundwater level observation wells were installed in completed boreholes SLB-28, BB-7, BB-2 and SLB-19.

2- Elevations provided reference the datum given in the plan titled "Boring and Test Pit Location Plan" dated 6/25/2020 prepared by SESI, which refers to an unknown datum.

3- The observation well in SLB-28 consisted of 2-inch-diameter, 10-ft-long screened PVC pipe and 5-ft-long solid riser. Top of well was approx. 1.5 ft above ground surface.

4- The observation well in SLB-19 consisted of 2-inch-diameter, 10-ft-long screened PVC pipe and 10-ft-long solid riser.

5- The observation well in BB-2 consisted of 2-inch-diameter, 10-ft-long screened PVC pipe and 10-ft-long solid riser.

6- The observation well in BB-7 consisted of 2-inch-diameter, 10-ft-long screened PVC pipe and 10-ft-long solid riser. Top of well was approx. 1.5 ft above ground surface.

TEST PIT	SURFACE ELEVATION ft	TEST PIT DEPTH ft	DEPTH TO WATER ft	WATER LEVEL ELEVATION ft	REMARKS
LTP-1	651.0	14.0	4.0	647.0	
LTP-2	645.0	13.0	N/E		Excavation dry.
LTP-3	659.0	14.0	7.0	652.0	
LTP-4	635.0	12.0	6.0	629.0	
LTP-5	650.0	14.0	7.0	643.0	
LTP-6	645.0	15.0	8.0	637.0	
LTP-7	633.0	13.0	N/E		Excavation dry.
LTP-8	671.0	12.0	8.0	663.0	
LTP-9	650.0	13.0	7.0	643.0	
LTP-10	679.0	13.0	7.0	672.0	
LTP-11	649.0	13.0	N/E		Excavation dry.
LTP-12	690.0	13.0	N/E		Excavation dry.
LTP-13	645.0	12.0	7.0	638.0	
LTP-14	688.0	12.0	N/E		Excavation dry.
LTP-15	684.0	13.0	8.0	676.0	
LTP-16	659.0	13.0	10.0	649.0	
LTP-17	654.0	12.0	N/E		Excavation dry.
LTP-18	666.0	13.0	9.0	657.0	
LTP-19	681.0	12.0	8.0	673.0	
LTP-20	645.0	12.0	7.0	638.0	

TABLE 2B - SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS IN TEST PITS

NOTES

1- Elevations provided reference the datum given in the plan titled "Boring and Test Pit Location Plan" dated 6/25/2020 prepared by SESI, which refers to an unknown datum.

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- Figure 7B Subsurface Profile B-B

LANGAN





Source: United States Geological Survey (USGS) –Carmel, NY, Quadrangle 1892



PROPOSED COMMERCIAL CAMPUS AT FIELDS CORNER

HISTORIC USGS MAP

New Jersey • New York • Virginia • California • Pennsylvania • Connecticut • Florida	SOUTHEAST			NEW YORK
Abu Dhabi • Athens • Doha • Dubai • Istanbul	PROJECT NO.	SCALE	DATE	FIGURE
	190065201	N.T.S.	2/27/2021	2

\\langan.com\data\WPW\data2\190065201\Project Data_Discipline\Geotechnical\Reports\2021 Report\Figures\Figure 2 - Historic USGS Map.docx



LEGEND:



t - Till Variable texture (e.g. clay, silt-clay, boulder clay), usually poorly sorted diamict, deposition beneath glacier ice, relatively impermeable (loamy matrix), variable clast content - ranging from abundant well-rounded diverse lithologies in valley tills to relatively angular, more limited lithologies in upland tills, tends to be sandy in areas underlain by gneiss or sandstone, potential land instability on steep slopes, thickness variable (1-50 meters).

Source: Surficial Geologic Map of New York, Lower Hudson Sheet (Cadwell, 1989)



PROPOSED COMMERCIAL CAMPUS AT FIELDS CORNER

SURFICIAL GEOLOGY MAP

New Jersey . New York . Virgin Abu Dhabi · At

nia • California • Pennsylvania • Connecticut • Florida	SOUTHEAST			NEW YORK
hens • Doha • Dubai • Istanbul	PROJECT NO.	SCALE	DATE	FIGURE
	190065201	N.T.S.	2/27/2021	3A







NFIP	PANEL 0134E
MINAN	FIRM FLOOD INSURANCE RATE MAP
PROG	PUTNAM COUNTY, NEW YORK (ALL JURISDICTIONS)
ANGE (PANEL 134 OF 256 (SEE MAP INDEX FOR FIRM PANEL LAYOUT) CONTAINS:
NSURA	COMMUNITY NUMBER PAAEL SUFFIX COMMUNITY SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJEC
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OTHAN	EFFECTIVE DATE MARCH 4, 2013 Federal Emergency Management Agency
NEID	PANEL 0142E
	FIRM
SRA	FLOOD INSURANCE RATE MAP
ROX	NEW YORK (ALL JURISDICTIONS)
GE F	PANEL 142 OF 256
NNA	(SEE MAP INDEX FOR FIRM PANEL LAYOUT) CONTAINS COMMUNITY NUMBER PANEL SUFFIX
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	MAP NUMBER
NANO	36079C0142E EFFECTIVE DATE
INMAN	MARCH 4, 2013 Federal Emergency Management Agency
L CAMP	US AT FIELDS CORNER

FEM

SCALE

N.T.S.

DATE

2/27/2021

FIGURE

5

PROJECT NO.

190065201

New Jersey • New York • Virginia • California • Pennsylvania • Connecticut • Florida Abu Dhabi • Athens • Doha • Dubai • Istanbul









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NEW YORK



)rawing Title

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.

qure

Project No. 190065201 05/24/2021 Drawn By AC Checked By

Filename: C:\bms\langan-pw-01\dms62358\190065201-0201-Bl201-0101.dwg Date: 5/25/2021 Time: 11:01 User: vrhodes Style Table: Langan.stb Layout: A-A

7A



APPENDIX A

Logs of Building A Borings



	1 of 3
Project Project No.	
Proposed Commercial Campus at Fields Corner 190065201	
Southeast New York Approx el 669 (unknown datum -	SESI Survey
Drilling Company Date Started Date Finished	
Craig Geotechnical Drilling Co., Inc. 4/23/21	4/23/21
Drilling Equipment Completion Depth Rock Depth	
CME 75 ATV-mounted Rig 47 ft Disturbed	N.E.
3-7/8in Tricone Roller Bit Number of Samples	
Casing Diameter (in) 4 Casing Depth (ft) 4 Water Level (ft.) First Completion	- <u>¥</u> -
Casing Hammer Automatic 140 Drop (in) Drilling Foreman	
Sampler 2" OD Split Spoon Field Engineer	
Sampler Hammer Safety Weight (Ibs) 140 Drop (in) Rodrigo Fernandez Santovo	
Sample Data	Domarka
パーボロー Berth し してい Sample Description Depth し し し し し し し し し し し し し し し し し し し	Fluid, Depth of Casing,
j ≦ 6 0 10 20 30 40 Fluid Loss	s, Drilling Resistance, etc.)
Brown SILT, some fine sand, trace roots (moist) [ML]	Drilling at 12:34 PM on
$\begin{bmatrix} 1 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ 5 \end{bmatrix} \begin{bmatrix} 1 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ 5 \end{bmatrix} \begin{bmatrix} 1 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ 5 \end{bmatrix} \begin{bmatrix} 1 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ 5 \end{bmatrix} \begin{bmatrix} 1 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ 5 \end{bmatrix} \begin{bmatrix} 1 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} \begin{bmatrix} 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\end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} \begin{bmatrix} 2$	Oft
2 - 3	2ft
Gravish brown clavey SILT, some f-m sand (moist) [ML]	casing to 4.0ft. Drilled to
	Grayish brown wash.
	+11
Grayish brown sandy CLAY, some silt (wet) [CL]	6ft
γ γ γ γ γ γ γ γ γ γ	
	to 8 Off Gravish brown
Grayish brown sandy SiL I, trace clay, trace tine gravel (moist)	to 6.011. Grayish brown
	Bft
Gravish brown sandy SILT, trace clay, trace fine gravel (moist)	10ft
	to 15 Oft Gravish
Gravish brown sandy SiL I, trace clay, trace line gravel (moist) $\begin{bmatrix} -1\\ -1\\ -2\\ -2\\ -2\\ -2\\ -2\\ -2\\ -2\\ -2\\ -2\\ -2$	wash. Rig chattering.
	15ft. Spoon bouncing
	ning at 101t

			of Boring			A	3-1		Sheet	2	of	3
Project		Proposed Commercial Campus at Fields Corner	Project No.			190	06520	1				
Location			Elevation and	d Da	atum	<u>Λ</u> ρη		S60 (unknow	un datum		un (ov)	
		Southeast, new York				App Sa	mple D			3531 31	livey)	
SYMBOL	Elev. (ft) 649.0	Sample Description	Depth Scale	Number	Type	Recov.	Penetr. resist BL/6in	N-Value (Blows/ft)	(Drilling Fluid Loss	Rema Fluid, Dep , Drilling F	rks oth of Casing Resistance, e	g, etc.)
		Gray silty CLAY, trace f-c sand, trace fine gravel (wet) [TILL]	20				6		Drilled brown v	to 20.0ft wash.	. Grayish	
			21	8-S	SS	9	9	16•	S-8 at 2 q_=2.50	20ft) tsf		
			22				8					
R R R R R R R R R R R R R R R R R R R	646.0											
		POSSIBLE BOULDER							Drilled	through a ick obstr	approxima uction fro	ately m
	644.5		24						2311 10	24.511		
Repo		Gray silty CLAY, some f-c sand, trace fine gravel (wet) [TILL]	25				7		Drilled	to 25.0ft	Grayish	
E MA			26	6-0	SS	15	6	17•	S-9 at 2	vash. Ri 25ft	g chatterir	ng.
3:15:56				0)			11 15		q_=2.50) tst		
712021												
19 P			28 -									
ISE.GF			29									
ERPR			- 30 -						Drillod	- 20 Oft	Gravish	
		Gray slity CLAY, some t-c sand, trace tine gravel (wet) [TILL]		10		6	6 7		brown v S-10 at	wash. Ri 30ft	g chatterir	ng.
006520				ώ	ŝ		10	1/•	q _u =2.75	5 tsf		
CS/19			- 32 -									
OTILNI			33									
ICALIC			- 34 -									
IECHN												
OBDIE CONTRACTOR		Gray sandy SILT, some clay trace fine gravel (wet) [TILL]	- 35 -	_			9		Drilled Rig cha	to 35.0ft. Ittering.	. Gray was	sh.
			- 36 -	۶. 1	SS	3	15	26•	S-11 at q_=2.75	35ft 5 tsf		
			- 37 -				14					
I DATA			- 38 -									
OPEC												
201/PF			- 39 -									
99006		Gray silty CLAY, some f-c SAND, trace fine gravel (wet) [TILL]					18		Drilled	to 40.0ft	. Gray was	sh.
ATA2			41 -	S-12	SS	8	10 20	30	q _u =3.50) tsf		
OWN AND AND AND AND AND AND AND AND AND AN			42				19					
DATAW												
COM												
NGAN												
			E ₄₅									

	4/V <i>C</i> /A/V	Log	of Boring			AB-1		Sheet	3	of	3
Project	Draw and Communial Community of	Fields Common	Project No.		4	0000500					
Location	Proposed Commercial Campus at		Elevation ar	nd Da	atum	9000520	71				
	Southeast, New York				A	pprox el	669 (unkno	wn datum	- SESI S	urvey)	
						Sample [Data	Damarda			
MBO ((ft) Sample D	escription	Depth Scale	nber	/be	n) (in) sist	N-Value (Blows/ft)	(Drillir	ng Fluid, De	pth of Casin	g,
50 +62	24.0		45	n Z	É. 6	e e e	10 20 30 40) Fluid Lo	ss, Drilling I	Resistance,	etc.)
	Gray silty CLAY, some f-c sand,	trace fine gravel (wet) [TILL]		1		11		S-13 a	at 45ft	. Gray wa	ISN.
			46 -	S-1-5	SS	ଷ <mark> </mark> 15	22•	q_=4.5	50 tsf		
	22.0			1		20					
	End of boring at 47'		- 47 -				\neg	Finish	ed drilling	g at 1:52 F ing backfil	PM on
			- 48 -					with s	oil cutting	s and ber	ntonite
								pellets	s upon co	mpletion.	
			- 49 -								
			- 50 -								
			- 51 -	1							
			- <u>-</u>								
			53 -								
			- 54 -								
			- 55 -	1							
			- 56 -								
			- 57 -								
				1							
			- 58 -								
			_ 59 _								
			60 -								
			- 61 - -	1							
			62 -								
			Ē								
			63 -	1							
			61								
			- 04 -								
			65 -	1							
			66 -	1							
			67 -	1							
				1							
			68 -								
]							
			- 69 -								
			<u> </u>	-							

LA	ΝΔΑ	A/V		Log	of B	oring			AE	8-2			Sh	neet	1	of	2
Project					Pro	ject No.											
Location	Proposed Commercia	al Campus at Fields	Corner		Ele	votion o		atum	1900	065201	1						
Location	Southeast New York	(Le	vauu(1 a	nu Da	atum	Δnn	rox el 6	353 (u	hknov	wn de	atum - S	ESI S	(urvev)	
Drilling Com	pany	<u>.</u>			Dat	te Starte	d		тррі		00 (u	Date	e Finis	shed		urvey)	
	Craig Geotechnical D	Drilling Co., Inc.			4/26/21 4/26/21												
Drilling Equip					Completion Depth Rock Depth												
Size and Typ	e of Bit	ea Rig							Dist	22 ft urbed		 U	Indist	urbed		N.E. Core	
Occine Diem	3-7/8in Tricone Rolle	r Bit		ning Danth (ft)	Nur	mber of	Sam	ples	Fired		8			-4:	-	04.110	-
Casing Diam	4		Ca	asing Depth (it) 8	Wa	ater Leve	l (ft.)		∇		4			etion	-	24 HR. X	-
Casing Ham	^{mer} Automatic	Weight (Ibs)	140	Drop (in) 30	Dril	lling For	emar	ו									
Sampler	2" OD Split Spoon			- <u>+</u>	Fie	ld Engin	eer	Pa	aul N	lullins							
Sampler Har	^{nmer} Safety	Weight (lbs)	140	Drop (in) 30			001	G	opal	Goswa	ami						
									Sa	mple D	ata				Dom	arke	
Elev Elev (ft)	/.	Sample Descrip	tion			Depth Scale	mber	ype	in) v.	netr. ssist -/6in	N-V (Blov	alue vs/ft)	_	Drilling F	luid, De	apth of Casin	g,
5 ^{≥ 0} +653						- 0 -	Ĩ		Å,	BI	10 20	30 40		and Loss, L	Drilling	Resistance,	etc.)
	(moist) [SM]	ND, some clay, trace	e f-c gra	avel with roots	Ē	_	1			1			4	l/26/202		al 11.037	
					Ē	- 1 -	5	SS	16	5	7 •		5	S-1 at Oft			
					Ē		1			6							
	Brown silty f-m SA	ND, some clay, trace	e f-c gra	avel with roots		- 2 -	-	TE		8			S	S-2 at 2ft			
	(moist) [SM] organic content = 1	1.1%			Ē	- 3 -	2	s	9	6	12						
					Ē		- o	ľΕ	Ì	6							
649	.0 Gravish brown san	dv.SILT some clav	trace fi	ne gravel (wet)	<u> </u>	- 4 -	<u> </u>			5				Drove ca	sina ta	o 4.0ft. Dr ⁱ	illed to
	[ML]	ay one r, conto oray,	ado m		Ē	_	1	ΙE		6			4	.0ft. Bro	wnw	ash.	
					E	- 5 -	Ч.	SS	12	4	10			5-5 at 411			
647	.0					- 6 -				5							
	Grayish brown silty	/ CLAY, some f-c sa	ind, trac	e f-c gravel (wet)		1	ΙE		9				5-4 at 6ft			
					Ē	- 7 -	4	SS	4	6	12						
					E	_	1			6							
	Grayish brown f-c	SAND, some clay, se	ome silt	, trace f-c gravel		- 8 -	-	TE		14		\setminus		Drove ca	sing to	o 8.0ft. Dri	illed to
	(wet) [TILL]				E		μ	s	0	20		12		3.0ft. Ligi S-5 at 8ft	nt bro'	wn wash.	
					E		S	I E	-	22							
	Gravish green san	dy SILT some clay	traca sil	lt_trace_f_c	E	- 10 -	_	HE		20			5	S-6 at 10	ft		
	gravel (wet) [TILL]	ay one r, some day,	liace si		E	_		ΙE		/ 12							
					E	- 11 -	ч Ч	SS	12	16	28	1					
						- 10				27							
					F	_ 12 _	-										
						- 13 -											
						_											
					F	- 14 -	-										
					F	-	-										
	Gray clayey SILT ,	some f-c sand, trace	e f-c gra	avel (wet) [TILL]	F	- 15 -	1			7				Drilled to	15.0f	t. Light bro	own
					F	- 16 -	5	ss	4	12		42	, š	6-7 at 15	ft		
					F		1			30 22							
					Ę	- 17 -	\vdash	╞		23							
					ļ		1										
					F	- 18 -	1										
					Ē	- - 19 -	1					/					
					ļ		1										
2017 A 4633	0					- 20 -	1										

				<u>'9</u> .				J-2		_				-	01	2	
oject			Project	No.			100	00505									
cation		Proposed Commercial Campus at Fields Corner	Elevatio	on an	d Da	atum	190	06520	1								
		Southeast, New York					Арр	rox el	653	(unł	know	/n datum	- SES	Surv	/ey)		
							Sa	mple D)ata								
	Elev.	Sample Description	De	pth	nber	be		netr. sist (6in	1	N-Val Blows	ue s/ft)	(Drilli	Remarks				
¥6 ∮6	633.0				Nur	ŕ	Ee	Per B	10	20 3	0 40	Fluid Lo	oss, Drilli	ing Res	sistance, e	étc.)	
		Gray silty CLAY, trace f-m sand some silt, trace fine gravel (wet) [TILL]		. 1				6				Drilleo wash	d to 20	.0ft. C	Fray gre	en	
		LL = 22, PL = 14, PI = 8	- 2	1 -	8-8 8	ss	2	6 7	13	!		S-8 a	t 20ft 25.tef				
	621.0	WC - 9.3%	Ē	_				20				q u- z	20 (3)				
7/8//	031.0	End of boring at 22'	2	2 -								Finish	ned dril	lling at	t 11:44	AM	
			- 2	3 -								backf	illed wi	th soil	l cutting	s and	
			Ē	-								bento comp	nite pe letion.	ellets u	lpon		
			E 2	4 -													
			Ę,	5 -													
			Ę														
			- 2	26 -													
			Ē	, - - -													
			Ē	· _													
			- 2	28 -													
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			È a	12 –													
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			Ea	i3 –													
			E a														
			<u>–</u> 3	5 -													
			Ē														
			Ē														
			<u>-</u> 3	57 -													
			F.														
			<u>⊢</u> 3	18 – -													
			Ē a	- 9 –													
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			<u>-</u> 4	2 -													
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			E	-		1	1	1	1			1					

LA	ΝЬΑ	A/V		Log	of E	Boring			AB	-3			Sheet	1	of	2
Project					Pro	oject No										
Location	Proposed Commercia	l Campus at Fiel	ds Corner		Fle	avation a	nd Da	atum	1900	65201						
Location	Southeast New York					svation a		atum	Appr	ox el 64	47 (un	knov	vn datum - S	ESI Su	irvev)	
Drilling Com	pany				Da	ite Starte	d		, thbi	0/10/10		Date	Finished	201 00		
D.III. F.	Craig Geotechnical D	rilling Co., Inc.			5/7/21 5/7/21											
	CME 75 ATV mounto	d Dia			Completion Deptn Rock Depth N F											
Size and Typ	e of Bit	u Rig			NI	mhorof	Com		Distu	urbed		U	ndisturbed	C	N.⊑. Core	
Casing Diam	3-7/8in Tricone Roller	Bit		asing Denth (ft)	INU	imper or	Sam	Jies	Firet		7		ompletion	- 2		-
Casing Diam	4			4	Wa	ater Leve	el (ft.)		$\underline{\nabla}$		4			-	<u> </u>	-
Casing Ham	^{mer} Automatic	Weight (Ibs)	140	Drop (in) 30	Dri	illing For	emar	ı -								
Sampler	2" OD Split Spoon				Fie	eld Engir	eer	Pa	aul M	lullins						
ຽ ປັ່ງ Sampler Har	nmer Safety	Weight (Ibs)	140	Drop (in) 30		0		Ro	odrig	o Ferna	andez	Sant	oyo			
						Dauth			Sar	nple Da	ta			Rema	rks	
(ft)	7.	Sample Desc	ription			Scale	Imper	ype	ecov. (in)	esist L/6in	N-Va (Blow	alue /s/ft)	(Drilling F	luid, Dep	oth of Casin	ig,
		trace alou (wat)	N 41 1			— o -	ź		æ	<u> </u>	10 20	30 40	Started D		$\frac{1}{2} \times \frac{1}{2} \times \frac{1}$	M on
5	DIOWIT Salidy SILT,	trace clay (wet)	IVILJ			F	-			3			5/7/2021		ut 0.00 / t	
9						- 1 -	- - -	SS	4	3 6	٩		S-1 at 0ft			
<u>မ်</u>	0					Ē	1			5						
	Brown silty f-c SAN	D, some clay (m	oist) [SM]			- 2 - F	-			5	$ \rangle$		S-2 at 2ft			
0/1/2						- 3 -	2	ss	16	11	24					
a								ΪĦ		13						
0 	.0Gravish brown SILT		trace cla	wet) [ML]	<u> </u>	- 4 -	1			16			Drove cas	sing to	4.0ft. Dri	illed to
			, 1000 010	y (1101) [1112]			1			15			4.0ft. Bro	wn wa	sh.	
						- 5 - E	5	S	19	15	30	1	q _u =2.25 t	sf		
	0						-			20						
	Grayish brown silty	CLAY, trace f-m	sand, trad	ce fine gravel		- 0 -	-			7			S-4 at 6ft	sf		
						- 7 -	7	ss	52	11	28		qu 2.00 t	01		
						Ē				17						
	.0 Gravish brown silty	CLAY, some f-c	sand, trac	e fine gravel		- 8 -	1			10			Drilled to	8.0ft. (Grayish b	orown
	(wet) [TILL]			Ū			-22	ss	19	14			wash.	Snoo	n hounci	na
	.5					- 9 -				19	3	3+	q _u =4.50 t	sf		''g
DIEC	POSSIBLE BOULD	ER				- - 10 -	1			_50/1			Drilled the	rough 4 ft to 13	4ft obstru 3 5 ft	iction
/GEO							1									
						- 11 -	1									
						- 12 - E	1									
DAT						- 13 -	1									
	5						1									
or and the second second second second second second second second second second second second second second s						- 14 -	4									
						F	7									
	Gravish brown clave	ey SILT, trace f-r	n sand, tra	ace fine gravel		- 15 -	-			15			Drilled to	15.0ft.		
	(wet) [TILL]			Ū		Ē	-0		, ,	16			S-6 at 15	ft sf		
						F 16 -	ļγ	IS I	Ň.	16	3					
						E - 17 -	1	上目		18						
						Ę	1									
						- 18 -	-									
						F	1									
RGA						- 19 - -	1									
						E 20 -	1									

	A		of Boring			AE	3-3		_	Shee	et	2	of	2
Project		Drange of Communication of Fields Communication	Project No	•		100	06500	4						
Location	ı	Proposed Commercial Campus at Fields Corner	Elevation a	and D	atum	190 1	06520	I						
		Southeast, New York				App	rox el 6	647 (u	nkno	wn datu	ım - S	SESI Su	rvey)	
			1			Sa	mple D	ata				Deme	1.0	
VMBO	Elev. (ft)	Sample Description	Depth Scale	mber	ype	COV.	netr. sist /6in	N-V (Blov	′alue ws/ft)	(D	rilling F	Reman	KS th of Casing],
oi≦ XXXXXXX	+627.0		20 -	Ž	i fi		Pe BL	10 20	30 40	Fluid	Loss,	Drilling R	Crovich	etc.)
	NAVE .	Grayish brown sandy SILT, trace clay, trace fine gravel (wet) [TILL]		-			12			bro	wn wa	ash. Rig	chatterir	ng.
			- 21	S-1	SS	4	20		38•	S-7	' at 20	Oft		
	2+625 0		Ē	=			25							
		End of boring at 22'	= 22	-						Fin 5/7	ished /2021	drilling	at 9:11 A 1 backfille	M on
GAN			- 23 -	-						with	n soil	cuttings	and ben	tonite
- LAN			E	-						pen	ets u	pori con	ipietion.	
: Log			- 24	1										
Report			25	=										
2 2 2			Ē	-										
06 PI			- 26	-										
3:16:			- 27											
2021			E 27	-										
6/7,			_ 28	-										
GPJ .			E	1										
SISE			- 29	1										
ERP			- 30 -	=										
ENT				-										
55201			- 31	-										
19006			- 22	-										
)GS/			52	-										
INTLO			- 33 -	-										
:AL/G			Ē	-										
HNIC			- 34	1										
DIEC			- 35 -	-										
E/GE			Ē	=										
PLIN			- 36	3										
DISCI			- 37	1										
				1										
T DA			- 38	-										
OJEC			Ē	1										
11/PR			- 39 -	1										
06520			- 40 -	Ę										
2/190			Ē	3										
DATA:			- 41	-										
PWL			- 42	-										
TAW			42	-										
MIDA			43	-										
Z.CO			–	1										
NGA			F 44	1										
			E ₄₅ -	7										

Proiect		Proiect No.	AD-4						
	Proposed Commercial Campus at Fields Corner	. 10,000 10.	190065201						
Location		Elevation and Datu	um						
Drilling Comp	Southeast, New York any	Date Started	Approx el 645 ((unknown datum - SESI Survey) Date Finished					
5 1	Craig Geotechnical Drilling Co., Inc.	4/26/21 4/26/21							
Drilling Equipr	nent	Completion Depth Rock Depth							
Size and Type	CME 75 ATV-mounted Rig		22 ft Disturbed	Undisturbed Core					
	3-7/8in Tricone Roller Bit	Number of Sample	es Finanza	8					
Casing Diame	ter (in) Casing Depth (ft) 4 4	Water Level (ft.)	First	8 ∇ - ∇ -					
Casing Hamm	Automatic Weight (lbs) Drop (in) 30	Drilling Foreman							
Sampler	2" OD Split Spoon	Field Engineer	Paul Mullins						
Sampler Ham	mer Safety Weight (lbs) 140 Drop (in) 30		Gopal Goswami						
			Sample Data	Bomarka					
Elev. Elev. (ft)	Sample Description	Depth ਰੂ Scale ਦੂ	A Reference of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of t	N-Value Netroinaires (Drilling Fluid, Depth of Casing,					
<u>≥</u> ∽ +645.0		0		20 30 40 Fluid Loss, Drilling Resistance, etc.)					
	וווטים וווע ו-m אטאט, some clay, trace fine gravel (moist) [SM]			12:07 PM. S-1 at 0ft					
			8 ☐ ♀ ₄ ² 6•						
	Brown f-c SAND, some silt, trace f-c gravel, trace clay (moist)		18	S-2 at 2ft					
	[SM]			24					
			″ 						
641.0	Brown SILT some clay some f-c sand trace fine gravel	4	7	Drove casing to 4.0ft. Drill to					
	(moist) [ML]			4.0ft. Gray brown wash.					
		5 - 5	⁸	S-3 at 4n					
+639.0			13						
	Brownish gray clayey f-c SAND, some silt, trace fine gravel (moist) ISC1		7	S-4 at 6ft					
				3 •					
///////637.0	Gray CLAY, some f-c sand, some silt, some f-c gravel (wet)	<u> </u>	12	Drilled to 8.0ft. Gray brown					
	[CL]			S-5 at 8ft					
			20						
635.0	Gray CLAX some figure and some silt some figure (wet)	10	12	S-6 at 10ft					
	[TILL]								
				23 🖌					
			15						
		- 13 -							
		- 14 -							
	Gray silty CLAY, some f-c sand, trace fine gravel (wet) [TILL]		24	Drilled to 15.0ft. Greenish gr					
17 H				25• S-7 at 15ft					
THE AND		F 17 +							
I A A									
U/MA									
(TSIH)	1	F							

			of Boring		4	\B-4		Sheet	2	of	2
Proje	ct		Project No.								
Locat	ion	Proposed Commercial Campus at Fields Corner	Elevation an	nd Da	19 atum	006520	1				
		Southeast, New York			Ap	oprox el (645 (unknov	vn datum -	SESI S	urvey)	
					5	Sample D	ata				
ATERI/ YMBO	Elev. (ft)	Sample Description	Depth Scale	mber	ype. cov.	in) netr. sist /6in	N-Value (Blows/ft)	(Drilling	Rema g Fluid, De	IFKS pth of Casin	g,
°i≦ XXXXX	+625.0		20	N	E a	Bra Pe	10 20 30 40	Fluid Los	s, Drilling F	Resistance,	etc.)
		[TILL] Gray CLAY, some slit, some t-c sand, some t-c gravel (wet)				24		S-8 at	20ft	. Gray wa	511.
			- 21 -	s S S	S I C	2 13	34 ∙				
						13		Finiala	م ما السام ام		
		End of boring at 22'						on 4/26	6/2021. E	Boring	PIVI
			- 23 -					backfill benton	ed with s ite pellet	soil cutting s upon	gs and
5 - -			24					comple	tion.	·	
			- 25 -								
2											
2											
			- 27 -								
			28 -								
			_ 29 _								
			- 30 -								
			31 -								
50			- 32								
			33 -								
			- 34 -								
			- 35 -								
			- 36 -								
			- 37 -								
			- 38 -								
			- 39 -								
2000			40 -								
			- 41 -								
			42 -								
			- 43 -								
			44 -								

LA		of Boring	AB-5	Sheet 1 of 2					
Project		Project No.							
Location	Proposed Commercial Campus at Fields Corner	Elevation and Datu	190065201						
Location	Southeast New York	Lievation and Data	Approx el 645 (ui	nknown datum - SESI Survey)					
Drilling Compa	ny	Date Started		Date Finished					
	Craig Geotechnical Drilling Co., Inc.	4/23/21 4/23/21							
Drilling Equipm	nent	Completion Depth Rock Depth							
Size and Type	CME 75 ATV-mounted Rig		37 ft	N.E.					
Size and Type	3-7/8in Tricone Roller Bit	Number of Sample	s 11						
Casing Diame	er (in) Casing Depth (ft) 4 4	Water Level (ft.)	First ⊥∑ 20	Completion 24 HR. Ψ - Ψ -					
Casing Hamm	er, Weight (lbs) Drop (in) Automatic 140 30	Drilling Foreman							
Sampler	2" OD Split Spoon	Field Engineer	Paul Mullins						
Sampler Hamr	ner Safety Weight (lbs) 140 Drop (in) 30		Rodrigo Fernandez	Santovo					
			Sample Data	Bomorko					
B IN Elev.	Sample Description	Depth 5	N-V Blov Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview Verview V V V V V V V V V V V V V V V V V V V	alue Remarks ws/ft) (Drilling Fluid, Depth of Casing,					
Hod +645.0	· · ·			Fluid Loss, Drilling Resistance, etc.) 30 40					
ř IIIII	Light brown sandy SILT, trace clay, trace roots (moist) [ML]		4	Started Drilling at 10:03 AM on					
				S-1 at Oft					
643.0	Creatist brown eith f a CAND broos f a mouth broos alou	2	3	S-2 at 2ft					
	(moist) [SM]								
//0		S - 2 - S	$\begin{bmatrix} \overline{N} \\ 1 \end{bmatrix} \begin{bmatrix} 12 \\ 22 \end{bmatrix}$						
				\setminus					
641.0	Gravish brown clavev f-c SAND, some silt, trace coarse grave			Drove casing to 4.0ft. Drilled to					
	(moist) [TILL]	່ <u>-</u>	ا ا و آ م	4.0ft. Grayish brown wash.					
				36 S-3 at 4rt. Gravel in shoe					
			50/2						
	Grayish brown CLAY, some silt, some f-c sand, trace fine		6	Drilled to 6.0ft. Rig chattering.					
	gravel (moist) [TILL]			Grayish brown wash.					
		<u> </u>							
			15						
	Grayish brown silty f-c SAND, some clay, trace fine gravel		12	Drilled to 8.0ft. Grayish brown					
			<u>9</u> <u>32</u>	55 S-5 at 8ft					
			23						
	Crowish brown silty CLAV, some figure and (moist) [TILL]	- 10	25	Drilled to 10 Off Gravish					
	Grayish brown sitty CLAY, some i-c sand (moist) [TILL]			brown wash.					
				S-6 at 10ft					
		- 12							
		- 13 -							
	Gravish brown sandy SILT, some clay, trace f-c gravel (moist)		8	Drilled to 15.0ft. Grayish					
	[ייבב]		9 <mark>21</mark>	S-7 at 15ft					
		E 17 +							
		E]							
		- 18 -							
		E I I							
		- 19 -							
= VMV/L/A+625.0		≚ 20							

	A	/	V	6	Ż	4	V

		of Boring _		-	AB-5		Sheet	2	of	2
Project	Pronosed Commercial Campus at Fields Corner	Project No.		10	006520	1				
Location	Proposed Continencial Campus at Fields Conten	Elevation and	Datu	um	0000320	1				
	Southeast, New York			Ap	oprox el 6	345 (unknov	vn datum	ı - SESI Sı	ırvey)	
Elev. MWELENE (ft) +625.0	Sample Description	Depth Scale	Number	Type Recov.	(in) Penetr. resist BL/6in	Ata N-Value (Blows/ft) 10 20 30 40	(Drill Fluid Lo	Rema ing Fluid, De oss, Drilling F	rks oth of Casing Resistance, e	l, tc.)
LANGAN	Gray clayey SILT, some f-c sand, trace fine gravel (moist) [TILL]	20 - 21 - 22 - 22 - 23 - 23 - 23 - 23 - 23	8-8 20 20 20 20 20 20 20 20 20 20 20 20 20		11 12 15 12	27•	Drille brow S-8 a	d to 20.0ft n wash. tt 20ft	. Grayish	
	Gray sandy SILT, some clay, trace fine gravel (moist) [TILL]	24 - 25 - 25 - 26 - 27 - 27 - 28 - 28 - 28 - 28 - 28 - 28	S-9	3 🔤 o	o 13 50/3	50/3	Drille brown S-9 a	d to 25.0ft n wash. tt 25ft. Spc	. Grayish ion bounci	ng
LOGS/190065201 ENTERPRISE. GPJ	Gray sandy SILT, some clay, trace fine gravel (moist) [TILL]	29 30 31 32	S-10		8 2 9 16 22	25	Drille chatt S-10	d to 30.0ft ering. Gray at 30ft	. Rig ⁄ wash.	
DISCIPLINE/GEOTECHNICAL/GINT	Gray clayey SILT, some f-c sand, trace fine gravel (moist) [TILL]	33	S-11		10 2 11 22 26	33•	Drille brow S-11	d to 35.0ft n wash. at 35ft	. Grayish	
ANGAN.COMIDATA/WPWNDATA2/190065201/PROJECT DATA/	End of boring at 37	38 39 40 41 42 43 44					Finisi on 4/ backt bentc comp	ned drilling 23/2021. E illed with s onite pellets letion.	at 11:26 / Boring soil cutting s upon	≏M s and

APPENDIX B

Logs of Building B Borings



	of Boring	BB-1	Sheet 1 of 2						
Project	Project No.								
Proposed Commercial Campus at Fields Corner		190065201							
Location	Elevation and Da	ltum							
Southeast, New York	Date Started	Approx el 650 (ur	hknown datum - SESI Survey)						
Craig Costophical Drilling Co. Inc.									
Drilling Equipment	4/29/21 4/29/21 Completion Depth Rock Depth								
CME 75 ATV-mounted Rig		35 ft	25 ft						
Size and Type of Bit	Number of Samp	Disturbed	Undisturbed Core						
3-7/8in Tricone Roller Bit		Eirot 8	- 2						
4 Casing Depth (it)	Water Level (ft.)	∇ 4							
Casing Hammer Weight (lbs) Drop (in) 20	Drilling Foreman								
Sampler of OR OF A Street		Paul Mullins							
2" OD Split Spoon Sempler Hemmer Weight (lbs) Drop (in)	Field Engineer								
Automatic 140 30		Gopal Goswami							
	 ⊑ Depth ≒	Sample Data	Remarks						
Sample Description	Scale	Biology (in) Ype Biology (in) (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology (Biology	(Drilling Fluid, Depth of Casing,						
[≥] +650.0	<u> </u>		30 40						
Brown silty t-m SAND, trace clay, trace tine gravel with			4/29/2021. S-1 at 0ft						
		ທີ 1							
			S-2 at 2ft						
dravel (moist) ISMI									
		S 7 4 11							
- 1 (4) - 2 (2) 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) - 2 (- 1) -									
Provinich grou condy SILT, como dou, troco fino grou d	4		Drove casing to 4 Off Drilled to						
(wet) [ML]			4.0ft. Gray brown wash.						
	<u> </u>	S = 9 _ ⁸ _ 18 •	S-3 at 4ft						
Brownish grav silty f-c SAND trace clay (wet) [SM]	6		S-4 at 6ft						
2월 2월 1	E 7								
Brownish gray clayey f-c SAND, some silt, trace coarse		3	Drilled to 8.0ft. Gray brown to						
gravel (wet) [SC]			greenish gray wash.						
passing #200 = 42%	- 9 - 5	S 9 5 8	S-5 at 8ft						
WC = 12.070	E =	5							
Brownish gray clayey f-c SAND, some silt (wet) [SC]	10	5	S-6 at 10ft						
		6							
635.0									
Dark gray f-c SAND, trace silt (wet) [SP]		S α 23	Drilled to 15.0ft. Greenish						
		50/3	50/3 S-7 at 15ft						
	[``]								
	- 18 -								
631.0	19		Start of boulder						
	└── <u></u> <u> </u> <u> </u> 20 <u> </u>								

LA	N	GA	N

			.og o	of B	oring			BE	3-1			Shee	ŧ	2	of	2
Project		Proposed Commercial Campus at Fields Corner		Pro	ject No.			190	16520'	1						
Location				Ele	vation ar	nd Da	atum	ו <u>ווו</u> ו				<u> </u>				
		Southeast, New York				1		App	rox el 6	350 (ur	Iknov	wn datu	m - SE	SI Sur	vey)	
MATERIAL SYMBOL	Elev. (ft) ⊧630.0	Sample Description		Coring (min)	Depth Scale	Number	Type	Recov.	Penetr. resist BL/6in	N-Va (Blov	alue vs/ft) 30 40	(Dr Fluid	R illing Flu Loss, D	temarl uid, Dept rilling Re	ks h of Casing esistance, e	g, etc.)
		No Recovery - POSSIBLE BOULDER		-	— 20 — — 21 —	S-8	SS	6 0	50/1		50/*	1● Drill gray S-8	ed to 2 / wash at 20f	20.0ft. t	Greenis	h
ort: Log - LANGAN	⊧628.0				- 22 -							End	of bou	ulder		
PRISE GPJ 6/7/2021 3.16:21 PM Rep	F625.0.	Dark gray to bluish gray micaceous SCHIST; fresh; very wide fracture spacing; rock quality excellent	1: 2: 2: 3: 1:	:35 :04 :12 :25 :50	25 - 26 - 27 - 27 - 28 - 27 - 29 - 29 - 29 - 29 - 29 - 29 - 29	C-1	NX Core	REC=52"/60" =87%	RQD=51"/60" =85%			Drill gree C-1	ed to 2 mish g at 25f	25.0ft. (jray wa t	Gray to ish.	
ECHNICALIGINTLOGS/190065201 ENTEF	615.0	Dark gray to bluish gray micaceous SCHIST; fresh; very wide fracture spacing; rock quality excellent	2: 1: 4: 3:	:45 :30 :04 :07 :09	30 - 31 - 32 - 33 - 33 - 34 - 34 - 34 - 34 - 34	C-2	NX Core	REC=49"/60" =82%	RQD=45"/60" =75%			C-2	at 30f	t		
NLANGAN COMIDATANWPWIDATA2/190065201/PROJECT DATAL DISCIPLINE/GEOT	615.0	End of boring at 35'			35 36 37 37 38 40 41 41 41 41 41 42							Fini: 4/25 with pelle	shed d)/2021 soil ci sts upo	Irilling a . Borin uttings on com	at 9:38 A g backfil and ben pletion.	M on led tonite

LA	ΝЬΑ	Log	of Boring BB-2								Sheet	2						
Project					Project No.													
1	Proposed Commercia	al Campus at Field	ds Corner	•				-4	190	06520	1							
Location	Southoost Now York				Ele	evation	and L	atum	1	rov ol 6		lines	un datum C					
Drilling Com	Southeast, New York	<u>.</u>			Da	ite Star	ted		Арр		10) 000	Date	Finished	E91 90	rvey)			
	Craig Geotechnical D	rilling Co., Inc.			4/30/21 4/30/2									30/21				
Drilling Equip	oment				Completion Depth Rock Depth													
0. 17	CME 75 ATV-mounte	ed Rig			37 ft									N.E.				
Size and Typ	3-7/8in Tricone Roller	r Bit			Nu	Jumber of Samples Disturbed Undisturbed -								-	ore	-		
Casing Diam	eter (in) 4		C	asing Depth (ft) 4	w	ater Le	vel (ft.)	First ∑	t	4	Co	ompletion 24 HR. ▼ - ▼ 7.9					
Casing Ham	^{mer} Automatic	Weight (Ibs)	140	Drop (in) 30	Dr	illing F	orema	n –										
Sampler	2" OD Split Spoon				Fie	eld End	ineer	F	'aul N	lullins								
Sampler Har	nmer Automatic	Weight (lbs)	140	Drop (in) 30	1			Ċ	Gonal	Goswa	ami							
			110					_	Sa	mple D	ata							
	/.	Sample Desci	ription			Dept	h lag	be	Х S С	letr. sist	N-Va (Blov	alue	Drilling F	≺emai luid. Dep	KS th of Casir	na.		
100 M M M	.0	·				ocar	NnN	È	Bec	Per BL	10 20	30 40	Fluid Loss, I	Drilling R	esistance,	etc.)		
and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	Brown to light brow	n silty f-m SAND	, some cla	ay, trace roots		E 0	-			1			Started D	rilling a	at 8:32 A	M on		
	(moist) [SM]					- - 1	<u> </u>	s	~	2			S-1 at 0ft	1.				
3:27						F '	- j v	S		2	T.							
ж.						E 2	-			3								
2021	Brown to grayish br	rown silty f-c SAN	ID, some	clay (moist) [SM]			-		=	6			S-2 at 2ft					
01/1						- 3	12	ss		8	15							
						Ē	30	ľ		7								
5					∇	E 4	1			11			Drava	nina ta		rillad		
	Brown silty f-c SAN	ID, some clay, tra	ace fine gr	avel (wet) [SM]		E .	=			10			to 4.0ft. 0	sing to Grav bro	3 Swn was	niiea h.		
						- 5	<u>–</u>	ss	2	17	26		S-3 at 4ft					
						ĘŬ	-100			9		'						
5						E 6	1			11			0.4 -+ 04					
	Brown silty f-c SAN	ID, trace clay, trac	ce fine gra	avel (wet) [SM]		Ē	E			6			5-4 at 6h					
						- 7	- 4	ss	6	8	16							
Sector					_				Ì	8								
658	0		ilt trace fi	no anoval (wat)	<u> </u>	- 8	4			16			Drilled to	8 Oft (2ray brow	MD		
	ITILL1	Jy CLAT, Some Si	ni, trace n	ne graver (wei)		Ē	-		=	7			wash.	0.011. 0	Slay blo	///1		
						- 9	-12	SS	14	8	23		S-5 at 8ft					
						E	=			15		\backslash						
	Brownish grav silty	f-c SAND trace	clay trace	fine gravel		- 10	1		-	11		N	S-6 at 10	ft				
	(wet) [TILL]		ciay, trace			-	-			10								
						- 11	-19-S	SS	16	20		42						
						-	=			29		`	V					
						- 12		┼╘	-									
						E	-											
E						- 13	-											
						E	1											
						E 14	-											
						F.	-											
	Brownish gray sand	dy SILT, some cla	ay, trace fi	ne gravel (wet)		E 15	-	1 6	1	16			Drilled to	15.0ft.	Gray bro	own		
	[TILL]					È	S-7	SS	12	25			Wash.	ft				
E 649						F 16	7		┨	50/4		50/4	Rig Chatt	ering				
649						E 17	_											
						F 17	-						Breakthro	ough of	boulder			
						E 10	1											
						+ '°	4											
z <i>Hill</i>						E 10	1											
						Ē	1											
Ì <i>MHA</i>						L_ 20												

LANGAN

			of Boring			BE	8-2			Sheet	2	of	2
Project		Descrete de Commencial Commune et Fielde Commen	Project No.			4000	00500	4					
Location	ı	Proposed Commercial Campus at Fields Corner	Elevation and	d Da	tum	1900	16520	I					
		Southeast, New York				Appr	ox el 6	66 (unl	know	n datum	- SESI Su	irvey)	
0LA	E la u		Danth	-		Sar	nple D	ata			Rema	rks	
AATER SYMB	(ft)	Sample Description	Scale	umbe	Type	(in)	enetr resist 3L/6in	N-Va (Blow	lue s/ft)	(Drillir Fluid Lo	ng Fluid, Der ss, Drilling F	oth of Casin Resistance, o	g, etc.)
	+646.0	Brownish gray silty f-c SAND, some clay, trace fine gravel	20	z		LL.	30	10 20 3	80 40	Drillec	to 20.0ft	Gray bro	wn
		(wet) [TILL]		ő	s	0	42		77.	wash. S-8 at	20ft		
				S	s III	N	35						
			22 -				28						
No.													
TANC										Rod C	hattering		
			24										
(eport	6 41.0		- 25 +							Drilloc	l to 25 Oft	Graybra	
\geq		Gray clayey SILT, some 1-c sand, trace line gravel (wet) [TILL]		6			30 42			wash.	054		vvii
5:27 P			26 -	S-S	SS	20	35		77	5-9 al	2011		
13:10			27				28						
SE CI			29 -										
RPRI													
ENTE		Gray silty CLAY, some f-c sand, trace fine gravel (wet) [TILL]					16			Drillec wash.	I to 30.0ft	. Gray bro	wn
2201			- 31 -	S-10	SS	24	24 26		50	S-10 a	at 30ft		
1900							48						
										Roa C	nattering		
ILNI C			- 33 -										
			- 34 -										
ECHN													
CEOT	4	Gray SILT, some clay, some f-c sand, trace fine gravel (wet)	- 35				17			Drilleo wash	l to 35.0ft	. Gray bro	wn
			- 36 -	S-11	SS	24	23 26		49	S-11 a	at 35ft		
ISCIE	4629 0						36						
TA		End of boring at 37'	3/							Finish 4/30/2	ed drilling 2021. Insta	at 9:38 A alled 2"	M at
CT DA			- 38 -							diame observ	ter PVC to ation wel	emporary I with 10ft	
SOJE										slotted	d screen a	nd 10ft ri	ser.
201/PI													
90065.			40										
TA2\1{			41										
.WDA													
A/WP			42										
ADAT.			43 -										
1.CON													
NGA													
			E45										

Draigat		g of Boring BB-3								Sheet 1 of 2				
Project	Proposed Commercial Campus at Fields Corner	Pro	Ject No.			1000	16520°	1						
Location	Proposed Commercial Campus at heids Comer	Ele	vation a	nd Da	atum	1900	0520	1						
	Southeast, New York					Appr	ox el 6	654 (u	nkno	own datum - SESI Survey)				
Drilling Comp	any and a second second second second second second second second second second second second second second se	Da	te Starte	d					Date	te Finished				
Drilling Equip	Craig Geotechnical Drilling Co., Inc.	Co	moletion	Den	th	4/	30/21	Roc	4/30/21					
	CME 75 ATV-mounted Rig		Inpiction			32 ft		N F						
Size and Type	e of Bit	Nu	mber of	Sam	nles	Distu	irbed		Γι	Undisturbed Core				
Casing Diame	3-7/8in Tricone Roller Bit eter (in) Casing Depth (ft)					First		10	-	 Completion 24 HR				
caoing blaine	4 4 4	Wa	ater Leve	el (ft.)		$\underline{\nabla}$		4		<u> </u>				
Casing Hamn	Automatic Weight (lbs) Drop (in) 30	Dri	lling For	emar	۱ _									
Sampler	2" OD Split Spoon	Fie	ld Enain	eer	Pa	aul M	ullins							
Sampler Ham	Imer Automatic Weight (lbs) 140 Drop (in) 30	1			G	opal (Goswa	ami						
L L						San	nple D	ata		Bemerke				
	. Sample Description		Depth Scale	nber	/be	n) cov.	netr. sist /6in	N-V (Blo	alue ws/ft)) (Drilling Fluid, Depth of Casing,				
≦ ⁶ +654.0	p		_ 0 _	nz	É.	Re ,	Pe BL BL	10 20	30 40	Fluid Loss, Drilling Resistance, etc.)				
	Light brown silty f-m SAND, some clay, trace roots (moist)		_ 0	-			1			Started Drilling at 4/30/2021 10:17 AM_S-1 at 0ft				
	[0]4]		- 1 -	7	ss	4	1 2	۹						
							1	\setminus						
	Light brown to gravish brown silty f-m SAND, some clay		_ 2 -	_			8	\setminus		S-2 at 2ft				
	(moist) [SM]						5							
			- 3 -	5	SS	20	12	17						
+650.0	n l	∇	-	1			11							
////	Brownish gray sandy CLAY, some silt, trace fine gravel (wet)	_	- 4 -	-			4			Drove casing to 4.0ft. Drill to				
			- 5 -	Ϋ́	s	4	4	9		S-3 at 4ft				
			_	- o	ľΕ		5							
/ / / 648.0	Brownish grav clavey f-c SAND some silt trace fine gravel		- 6 -	-			3	$ \rangle$		S-4 at 6ft				
	(wet) [SC]			1_			10							
			- 7 -	8-4 8-4	SS	12	10	26)					
							11							
	Brownish gray clayey f-c SAND, some silt, trace fine gravel		- 8 -	-			1			Drilled to 8.0ft. Greenish gray				
			- - 9 -	- 22	ss	16	4	8		S-5 at 8ft				
					Ē		4			q _u =.50 tsf				
	Brownish grav clavey f-c SAND, some silt_trace fine gravel		- 10 -	_			4			S-6 at 10ft				
	(wet) [SC]						3							
	passing #200 = 47% wc = 12.7%		- 11 -	မှ	ss	7	2	54						
			- 12 -				1	\setminus						
			12 -	=	_	ΙT								
			- 13 -	1										
			_	1										
			- 14 -	1										
				1										
	Brownish gray sandy SILT, some clay, trace fine gravel (wet)		- 15 -	-	E		15			Drilled to 15.0ft. Greenish gra				
	[TILL]		16		s	9	15		27	Wash. S-7 at 15ft				
			- 01	- v	S		22		1					
			- 17 -	-	μĒ		23							
				1										
			- 18 -	1										
III III				1										
			- 19 -											
Y BAA				1										

	A	/	V	6	Ż	4	Λ	V

			of Boring			BB	-3		S	heet	2	of	2
Project		Pronosed Commercial Campus at Fields Corner	Project No.			1000	065201	1					
Location		rioposed commercial campus at news comer	Elevation and	d Da	tum	1300	0020						
		Southeast, New York				Appr	ox el 6	654 (unkno	own d	datum - S	SESI Su	rvey)	
the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of th	ev. ft)	Sample Description	Depth Scale	Number	Type	Recov.	Penetr. resist BL/6in	N-Value (Blows/ft)	F	(Drilling F Fluid Loss,	Remai Fluid, Dep Drilling R	ks th of Casin esistance, o	g, etc.)
	/1.0	Gray SILT, some clay, some f-c sand (wet) [TILL]	20				26			Drilled to wash.	20.0ft.	Greenisł	n gray
eport: Log - LANGAN			21 - 22 - 23 - 24 - 24 - 25 - 25 - 25 - 25 - 25 - 25	S-8	SS	2	34 22 17		56•	S-8 at 20	Oft		
RPRISE_GPJ 6/7/2021 3:16:33 PM R4		Gray sandy SILT, some clay, some f-c gravel (wet) [TILL]	20	0-0	SS	16	6 10 15 43	25•		Drilled to S-9 at 25 q _u =4.50) 25.0ft. 5ft tsf	Gray wa	sh.
90065201_ENTE		Gray sandy SILT, some clay, trace fine gravel (wet) [TILL]		S-10	SS	10	48 23 26 48	4	19 •	Drilled to S-10 at 3	o 30.0ft. 30ft	Gray wa	sh.
WLANGAN.COM/DATAWPW/DATA2/190065201/PROJECT DATA_DISCIPLINE/GEOTECHNICAL/GINTLOGS/		End of boring at 32'	32 33 34 35 36 37 37 38 39 40 41 42 43 42 44 43							Finished ont 4/30, backfille bentonite completi	drilling (2021. E d with s e pellets on.	at 11:11 3oring bil cutting upon	AM is and

LA		Log	g of Boring BB-4								Sheet 1 of 2							
Project				Project No.														
Location	Proposed Commerci	ial Campus at Fields Co	orner	FI	evation a	nd D	atum	190	06520	1								
Location	Southeast New York	k			evalion a		atum	Δnn	rov el (678 (11	hkn	own	datum - SE9	SI Su	rvev)			
Drilling Comp	bany	<u> </u>		Da	ate Starte	d		Лрр		070 (u	Da	te F	inished	<u>л о</u> и	rvcy)			
	Craig Geotechnical [Drilling Co., Inc.		5/6/21 5											/6/21			
Drilling Equip	oment			Completion Depth Roo									Depth					
Size and Tvn	CME 75 ATV-mount	ied Rig						Dist	31.6 fi	t		Und	N.E.					
	3-7/8in Tricone Rolle	er Bit		Nu	umber of	Sam	ples	Dist	libed	10		Unu	-	010	-			
Casing Diam	eter (in)		Casing Depth (ft)	w	ater Leve	el (ft.))	Firs	First 6			Con	npletion	24	4 HR.	_		
Casing Hamr	ner	Weight (lbs)	Drop (in)	Dr	illing For	emai	n	<u> </u>				<u> </u>			<u> </u>			
Sampler		14	10 30				P	aul N	lullins									
Sampler Han	2" OD Split Spoon	Weight (lbs)	Drop (in)	Fie	eld Engin	eer												
	Safety		0 30				R	odrig Sa	o Ferr	nandez	Sa	ntoy	/0					
	<i>.</i>	Sample Descriptio			Depth	er	đ	ž	E to to	N-V	alue		Re	emar	rks			
IT (ft)		Sample Descriptio	1 1		Scale	I mp	Typ	(in)	^{>} ene resis BL/6	(Blov	vs/ft)	(Drilling Fluid Fluid Loss, Dril	I, Dep ling R	th of Casing esistance, e	g, etc.)		
+678.	Brown sandy SILT	, trace clay, trace roots	(moist) [ML]		- 0 -		╞	-	4	10 20	30	40	Started Dril	ling a	at 7:44 AM	VI on		
						1_			4				5/6/2021. S-1 at 0ft					
					- 1 -	ုသု	SSE	Ĩ	4	8•			0-1 at 01t					
+676.	0				-				6									
	Grayish brown sar	ndy SILT, trace gravel, t	trace clay (moist) [ML	.]					17	$ \rangle$			S-2 at 2ft					
					- 3 -	2	ss	0	11	28	V							
						- 00	ΪĒ	Ì	17									
	Crovich brown silts	wfm SAND trace fine	aroval trace day		- 4 -	-			14				Drove casir	na to	4 Oft Dri	lled to		
	(moist) [SM]	y I-m SAND, trace line	gravel, trace clay			-	E		14				4.0ft. Brow	n was	sh.			
					- 5 -	S-3	ss	20	13	3	b		S-3 at 4ft					
					7				20		/							
	Grayish brown sar	ndy SILT, trace fine gra	vel (wet) [ML]	¥	6 -	-		-	6	1 /			S-4 at 6ft					
						4		_	7									
					- 7 -	ပ္	S	7	7	14•								
	o								7		X							
	Grayish brown clay	yey f-c SAND, some sil	t, trace f-c gravel		- 0				8			N	Drilled to 8.	Oft. C	Grayish b	rown		
669.	0				- 9 -	- 5	ss	8	7			59	S-5 at 8ft					
						5	Ĩ		52									
	Gravish brown silty	wf-c SAND some clav	trace f-c gravel (wet)	`	- 10 -				44				S-6 at 10ft					
	[TILL]	y 1-c OAND, Some day,		,					30									
					- 11 -	S-0-	SS	4	27			57+						
						1			25									
					- 12 -	-												
					- 10	1												
						-												
					- 14 -	1							D		44.05			
						1							Drove casir	ig to	14.0ft			
HALL .	Gravish brown as	ndu SILT como olori tri	and for gravel (wet)		- 15 -	_	┝	-					Drilled to 14	5 Oft	S-7 at 14	Sft		
	[TILL]	iuy SILT, Some Clay, Ira	ace i-c graver (wet)		E	S-7	ss	9	28				Spoon bour	ncing	Jian			
					- 16 -	1	<u>⊢</u> E		50/0		5	0/0						
					Ē	1												
					- 17 -													
					-	1												
					- 18 -	1												
<u>IIII</u>					- 10 -	1												
					- 19	1												
CHARTHA					F 1	7	1											

LANGAN

			of Boring	BB-4		Sheet	2	of	2
Project		Proposed Commoncial Compuse at Fields Corpor	Project No.	100065201					
Location	۱	Proposed Commercial Campus at Fields Comer	Elevation an	d Datum					
		Southeast, New York		Approx el 678	(unknown	ı datum ·	- SESI Su	rvey)	
MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Zumber Type (in) Danuer (in) Danuer (in) Danuer Danuer Danuer	N-Value Blows/ft)	(Drillin Fluid Los	Remai g Fluid, Dep s, Drilling R	'ks th of Casing esistance, e	g, etc.)
		Grayish brown sandy SILT, some clay, trace f-c gravel (wet) [TILL]	20 21		50/2 ●	Drilled brown S-8 at	to 20.0ft. wash. Rig 20ft	Grayish J Chatterii	ng.
Report: Log - LANGAN	653.0	Grav clavey SILT some f-c sand trace f-c gravel (wet) [TILL]	22 - 23 - 24 - 25 - 25 - 25 - 25 - 25 - 25 - 25			Drilled	to 25.0ft.	Gravish	
E.G.P	AV111AVAV111AVAV111AVA		26 - 27 - 28 - 29 - 29 - 29 - 29 - 29 - 29 - 29	0- 0- 0- 0- 0- 0- 0- 0- 0- 0-	95+	brown S-9 at	wash. Riç 25ft	ı Chatterin	ng.
00065201 ENTERPRIS	6 46.4	Gray silty CLAY, some f-c sand, trace f-c gravel (wet) [TILL]	30 - 31 -	0 5 5 5 5 5 5 5 5 5 5 5 5 5	106+	Drilled Rig Ch S-10 a Finishe	to 30.0ft. attering. t 30ft ed drilling	Gray was at 9:15 A	sh. M on
WLANGAN.COMIDATAWPWIDATA2/190065201/PROJECT DATAL_DISCIPLINE/GEOTECHNICAL/GINTLOGS/1900652	646.4	End of boring at 31.6'	32 33 34 34 35 36 37 38 39 40 41 41 42 43			Finishe 5/6/20 with sc pellets	ed drilling 21. Boring bil cuttings upon con	at 9:15 A j backfille and bent pletion.	M on d tonite

LA	NL	A/V	Log	g of B	oring			BB-5			Sheet	1	of	2	
Project				Pro	ject No.										
Location	Proposed Commercia	al Campus at Fields Co	rner	Ele	vation an	nd Da	tum	19006520	1						
Drillin n Comm	Southeast, New York			Def	- Otauta			Approx el (665 (ur	hknow	n datum - S	SESI S	urvey)		
	Craig Geotechnical D			Dat	e Started	1		5/1/21		Date Finished					
Drilling Equip	ment	filling CO., Inc.		Со	mpletion	Dept	h	5/4/21		Rock	Depth		5/4/21		
	CME 75 ATV-mounte	ed Rig						35.7 f	t				N.E.		
Size and Type	e of Bit 3-7/8in Tricone Roller	r Bit		Nu	mber of S	Samp	les	Disturbed	11	Un	disturbed	-	Core	-	
Casing Diame	eter (in) 4		Casing Depth (ft) 4	Wa	iter Level	(ft.)		First 	20	Co	mpletion	-	24 HR. 卫	-	
Casing Hamn	^{ner} Automatic	Weight (Ibs) 14	0 Drop (in) 30	Dril	ling Fore	eman	_								
Sampler	2" OD Split Spoon			Fie	ld Enaine	er	Pa	aul Mullins							
Sampler Ham	mer Safety	Weight (Ibs) 14	0 Drop (in) 30				At	hira Nair							
								Sample D	ata			Rema	arke		
t: Loo (ft) XMBCC (ft)		Sample Descriptio	n		Depth Scale	mber	ype	ecov. (in) enetr. esist L/6in	N-Va (Blov	alue vs/ft)	(Drilling F	Fluid, De	pth of Casir	ng,	
ō ≥ ⁰⁰ +665.0) Drown oilty f o CAN	ID trace alour trace rea	to (moint)		- 0 -	ЯГ	-	а С С с	10 20	30 40	Started [Drilling	at 11.33	AM on	
	[TOPSOIL]	ID, trace clay, trace roo	ots (moist)	F				3			5/4/2021		at 11.001		
4 1	organic content = 2	2.4%		Ē	- 1 -	S-1	SS	° _ 50	10+		S-1 at 0f	ť			
				Ē				5							
6003.0	Brown silty f-c SAN	ID, trace roots (moist)	[SM]		2 -			7	1 \		S-2 at 2f	ť			
01712	organic content = '	1.1%				-2	s	8							
						Ś	s	[] 10							
5				Ē	- 4 -			15			Drillod to	1 Oft			
	Brown f-c SAND, s	ome silt (moist) [SM]						22			S-3 at 4f	74.011. T			
660.0	Tannish brown san	dy CLAY_trace silt (mo	nist) [CI]		- 5 -	S-3A	ss	₽ 1 ¹	29	}					
	rannish brown san				-	S-3B		11							
659.0 29	Tannish brown clay	/ey f-m SAND, some si	It, trace f-c gravel		6 -			7			S-4 at 6f	ť			
	(moist) [SC]	-	-	F		4	۶	7							
				Ē	_ / _	ŝ	S:	16	23						
				Ē	- 8			18			Duille date	0.05			
	I annish brown clay (moist) [SC]	ey f-m SAND, some si	It, trace t-c gravel	ŀ				5			S-5 at 8f	8.011, t			
	passing #200 = 43	%		Ē	9 -	S-5	SS	<u>د</u> 4	10						
	WC = 12.7%			ŀ			E	5	$ \rangle$						
н (<i>У.У., У.У.</i> 655.) О (<i>У.У.У.У.У.</i> Щ (<i>У.У.У.У.У.</i>	Tannish brown silty	/ f-c SAND, some clay	(moist) [TILL]		- 10 -			12		\setminus	S-6 at 10	Oft			
				ŀ	- 11 -	9	s	→ 20							
				ŀ	- '' -	S	S	∾ 23		1					
				F	- 12 -			17							
				F											
				Ē	- 13 -										
				Ē											
				Ē	- 14 -										
					- 15 -										
	Tannish brown silty	CLAY, some f-c sand	, trace f-c gravel	ŀ				23			S-7 at 15	oft			
649.0			$\underline{-}$	[- 16 -	S-7A	ss	€ _53		80	+				
	Dark gray I-C SAINL	, some mie graver (mo	JOU [TILL]	F		S-7R		27							
				F	- 17 -						Rig chat	tering			
				Ē											
				ŀ	- 18 -										
					- 19 -										
				ŀ											
				∇	- 20 -										
L	. A	Ν	G,	4/	V										
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			of Boring		В	B-5		Sheet	2	of	2
Project		Proposed Commercial Campus at Fields Corner	Project No.		19	006520 [,]	1				
Location	n	Southeast, New York	Elevation and	Datu	ım Ap	prox el 6	65 (unknow	/n datun	n - SESI Si	urvey)	
MATERIAL SYMBOL	Elev. (ft) +645.0	Sample Description	Depth Scale	Number	Type Recov.	(III) Penetr. resist BL/6in	ata N-Value (Blows/ft) 10 20 30 40	(Dril Fluid L	Rema ing Fluid, De oss, Drilling F	IFKS pth of Casing Resistance, e	g, etc.)
og - LANGAN		Gray clayey f-c SAND, some silt, trace f-c gravel (wet) [TILL]	20 - 21 - 22 - 23 - 23 - 24 - 24 - 24 - 24 - 24	80 v	23	18 18 23 33	41	Rig c	at 20ft hattering		
SE. GPJ 6/7/2021 3:16.44 PM Report: 1		Dark gray silty f-c SAND, some clay, trace f-c gravel (wet) [TILL]	25 - 26 - 27 - 28 - 28 - 29 - 29 - 29 - 29 - 29 - 29	S-9 SS	<u>د</u>	48 48 50/3	50/3	S-9 a	at 25ft		
CHNICALIGINTLOGS190065201 ENTERPRI		Dark gray silty f-c SAND, some clay, trace f-c gravel (wet) [TILL]	30 - 31 - 32 - 33 - 33 - 34 - 34 - 34 - 34 - 34	S-10	2	34 47 88 50/3	135	Drille S-10 Switc ham Split Rig c	d to 30ft. at 30ft ched to aut ner. spoon refu hattering	romatic Isal	
ILANGAN.COMIDATAIWPWIDATA2/190065201/PROJECT DATAL DISCIPLINE/GEOTE	629.3	Dark gray clayey SILT, some f-c sand, trace fine gravel (wet) [TILL] End of boring at 35.7'	35 36 37 37 38 39 40 41 42 43 43 44	0-11 38		60 50/2	50/2	Drille S-11 Finis on 5/ with pelle	d to 35ft. at 35ft hed drilling 4/2021. Bo soil cutting ts upon co	g at 12:55 oring back s and ben mpletion.	PM filled tonite

Pieged Proposed Commercial Campus at Fields Come Proposed Commercial Campus at Fields Come Lotation 100006501 Subtract, New York Approx 6185 (unknown datum - SESI Survey) Dilling Company Grage Gootechnical Dilling Co., Inc. 65021 Dilling Company Caration Seguh 71 (III) Number of Survey) Dilling Company Caration Seguh 71 (III) Number of Survey) Caration Seguh 71 (III) Number of Survey) 100 Star and Types (SII) Caration Seguh 71 (IIII) Number of Survey) Star and Types (SII) Caration Seguh 11 Under the survey 100 Star and Types (SII) Text (IIII) Number of Survey) Recaration Seguin 11 Star and Types (SII) Star and Types (SIII) 140 Drop (IIII) 11 Star and Types (SIIII) Star and Types (SIIII) Recaration Seguin Recaration Seguin Recaration Seguin Star and Types (SIIII) Star and Types (SIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	LA	NL /	A N		Log	of B	oring			BE	8-6			Sheet	1	of	2
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Project		Proposed Commercial Campus at Fields Corner	Project No.		1	1900652	01					
Location	n	Southeast, New York	Elevation and	d Da	itum A	Approx e	685 (ur	nknow	n datum	ı - SESI S	urvey)	
MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Number	Type	(in) (in) Penetr. resist	Data N-V (Blov	alue vs/ft)	(Drill Fluid L	Rema ing Fluid, De oss, Drilling	arks epth of Casin Resistance,	g, etc.)
-LANGAN		Grayish brown sandy SILT, trace clay, trace f-c gravel (wet) [TILL]	20 - 21 - 21 - 22 - 23 - 23 - 23 - 23 - 23	S-8	SS	م 38 20 35 34 38	3	65	Drille S-8 a	d to 20.0f at 20ft	t.	
1 6/7/2021 3:16:50 PM Report: Log		Gray clayey SILT, some f-c sand, trace fine gravel (wet) [TILL]	- 25 - 25 - 26 - 27 - 27 - 28 - 28 - 28 - 28 - 28 - 28	S-9	SS IIIIII	с 23 50/3	-	50/3	Drille brow S-9 a	d to 25.0f n wash. F at 25ft. Sp	t. Grayish ig Chatter oon bound	ing. ing
TLOGS190065201_ENTERPRISE.GP		Gray sandy SILT, some clay, trace fine gravel (wet) [TILL]	29 - 30 - 31 - 32 - 22 - 22 - 22 - 22 - 22 - 22	S-10	SS	N 14 33 40 41	 ?)	72	Drille brow S-10	d to 30.0f n wash. R at 30ft	t. Grayish ig chatteri	ng.
DISCIPLINE(GEOTECHNICAL)GIN	648.0	Gray clayey SILT, some f-c sand, trace fine gravel (wet) [TILL]	33 - 34 - 35 - 36 - 36 - 37 - 37 - 37 - 37 - 37 - 37	S-11	SS	17 17 30 31	5	55	Drille brow S-11	d to 35.0f n wash. F at 35ft	t. Grayish Rig Chatte	ring.
NGAN.COMDATA\WPWDATA2\190065201\PROJECT DATA\		End of boring at 37'	38 - 39 - 40 - 41 - 42 - 43 - 44 -						Finis 5/5/2 wtih pellet	ned drillin 021. Borin soil cutting is upon co	g at 9:57 Å ng backfille js and ber mpletion.	w on ed itonite

Project Project No. 190065201 Location Approx el 668 (unknown datum - SESI Drilling Company Date Started Casing Damet A Completion Depth Casing Damet A (Intermediation of the started) Sampler 2: OD Split Spoon Depth (Ith) Sampler 2: OD Split Spoon Date Started Sampler 2: OD Split Spoon Depth (Ith) Sampler 2: OD Split Spoon Depth (Ith) Sampler 2: OD Split Spoon Depth (Ith) Sample Description Depth (Ith) Dark brown to brown silty Fm SAND, trace day, trace roots 0 If Sign (Intermediation) Depth (Ith) Sol (ISS) Brown f-c SAND, some silt, trace f-c gravel (moist) 1 If Sign (Intermediation) Depth (Ith) 1 If Sign (Intermediation) Depth (Ith) 1 If Sign (Intermediation) Depth (Ith) 1 If Sign (Intermediation) <th>of 2</th> <th>1</th> <th>Sheet</th> <th></th> <th></th> <th></th> <th>8-7</th> <th>BE</th> <th></th> <th></th> <th>oring</th> <th>of Bo</th> <th>Log</th> <th></th> <th></th> <th></th> <th></th> <th>4</th> <th></th> <th></th>	of 2	1	Sheet				8-7	BE			oring	of Bo	Log					4			
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Approx el fost unichnown datum - SES Dilling Completion Part Date Started Date Started Date Started Craig Gestechnical Drilling Co., Inc. Chilling Equipment Casing Dammer 22 ft Indiaturbad Size and Type of Bit Number of Sample Distribution Book Depth Distribution Book Depth Casing Diamet Weight (bits) 140 Disp (m) 30 Disp (m) 30 Distribution Completion Completion Sampler 2 OS Split Spoon Field Engineer Completion Disp (m) 30 Disp (m) 30 Disp (m) 30 Disp (m) 30 Sampler Part Multins Sampler 2 OS Split Spoon Sample Description Depth (m) 30 Disp (m) 30 Sample Description Sample Description Sample Description Sample Description Sample Part Multins Samet Disp (m) 44 Samet Santed Drilling (Completion Signet Split) Samet Santed Drilling (Completion Split) Samet Santed Drilling (Completion Split) Samet Santed Drilling (Completion Split) Samet Split) Samet Split) Samet Split) Samet Split) Samet Split) Samet Split) Samet Split) Samet Split) Samet Split) Samet Split) Samet Split)									tum	nd Da	ation ar	Elev							cation	Lo	
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Brown sandy CLAY, some silt, trace f-c gravel (wet) [CL]									,		- 15 -	F						653.0	////	12	
$\begin{bmatrix} & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ $	Itt. Gray brown	to 15.0ft. (Drilled to				2				10 -	F	vel (wet) [CL]	f-c gravel	some silt, trace	andy CLAY	Brown sa		[/]	K/.	
		15ft	S-7 at 15				5	。	ŝ	~	- 16 -	Ē							/././	1/	
							4	-	S	Ó	10 -	E							///	Ķ/;	
							8		E	1	47	F							<i>!///</i>	<i>\</i> //	
E^{\prime}						1					1/ -	E							///	(/	
										1	-	F							///	<i>[//</i>	
										1	- 18 -	Ē							/./.	14	
					$ \rangle$						-	E							///	ľ/.	
$\begin{bmatrix} 19 \\ \hline \end{array} \\ \hline \\ \end{bmatrix} = \begin{bmatrix} 19 \\ \hline \\ \\ \end{bmatrix} = \begin{bmatrix} 19 \\ \hline \\ \\ \\ \end{bmatrix} = \begin{bmatrix} 19 \\ \hline \\ \\ \\ \\ \end{bmatrix} = \begin{bmatrix} 19 \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $					'						- 19 -	F							///	[/;/	
											-	E						640.0	///	//	

		Log of Boring	BB-7	_ Sheet 2 of	2
Project	Proposed Commercial Campus at Fields Corner	Project No.	190065201		
Location		Elevation and	Datum		
	Southeast, New York		Approx el 668 (un	nknown datum - SESI Survey)	
		Denth	Sample Data	Remarks	
SYMB(t) Sample Description	Scale	N-Va Blow (in) V-Va Blow (Blow)	(Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
≥ •64	18.0 Grav sandy SILT some clay, trace f-c gravel (wet) [TIL]	20 - 2		Dilled to 20.0ft. Grav brown	n.,
				wash.	
				38 3-0 at 2011	
64 19/1/19-64	46.0	22 +	27	Einished drilling at 12:59 DM	
	End of boring at 22'			on 4/28/2021. Installed 2"	VI
		- 23 -		diameter PVC temporary observation well with 10ft	
		Ē		slotted screen and 10ft rise	r.
		25 -			
		E I			
		26 -			
		27 -			
		E I			
		- 28 -			
		- 20 -			
		23 -			
		- 30 -			
		- 32 -			
		- 34 -			
		- 35 -			
		- 37 -			
		- 39 -			
		- 40 -			
		42			
		E E			
		<u> </u>			

LA	Nban	Log) of E	Boring			BB	-8			Sheet 1 of	2
Project			Pr	roject No.								
Location	Proposed Commercial Campus at	Fields Corner	E	evation ar	d D	atum	1900	65201	1			
Location	Southeast New York			evalion a		atum	Appro	ox el 6	90 (u	hknov	vn datum - SESI Survey)	
Drilling Com	ipany		Da	ate Starteo	d		7 ippi (.00 (ui	Date	Finished	
D. III. E.	Craig Geotechnical Drilling Co., In	IC.			<u> </u>		4/2	27/21		D 1	4/27/21	
Drilling Equ	CME 75 ATV mounted Pig			ompletion	Бер	tn		20 ft		ROCK		
Size and Ty	pe of Bit		N	umbor of (Som		Distu	rbed		U	ndisturbed Core	
Casing Diar	3-7/8in Tricone Roller Bit	Casing Depth (ft)			Sam		Firet		10			•
	4	4	W	ater Leve	l (ft.)		$\overline{\nabla}$		6		$\underline{\Psi}$ - $\underline{\Psi}$ 14.9)
Casing Ham	Automatic Weight (Ibs) 140 Drop (in) 30	Dr	rilling Fore	emar	ı -						
Sampler	2" OD Split Spoon		Fi	eld Engine	er	Pa	aul Mi	ullins				
Sampler Ha	mmer Safety Weight (Ibs) 140 Drop (in) 30		0		G	opal (Goswa	ami			
			-	Donth			Sarr	nple Da	ata		Remarks	
) Sample D	escription		Scale	Imper	ype	ecov.	esist L/6in	N-V (Blov	alue vs/ft)	(Drilling Fluid, Depth of Casing,	`
≥ ⁰⁰ +69	0.0 Prown cilturf m SAND, como olo	ave trace f a gravel (maint) [SN	/ 1	<u> </u>	ź		r a	<u>م م</u>	10 20	30 40	Started Drilling at 8:18 AM	.) on
	Brown sity I-III SAND, some da	ay, trace i-c graver (moist) [Siv	'nJ	E =				10			4/27/2021.	
				<u>- 1 -</u>	<u></u>	SS	12	8	19 •		S-1 at Off	
								6				
	Brown silty f-m SAND, some cla	ay, trace f-c gravel (moist) [SN	/]	F 2 -				8			S-2 at 2ft	
				- 3 -	2-2	ss	9	8	19•			
								11				
	Brown silty f-c SAND. some clay	v. trace fine gravel (moist) [SN	<i>/</i> 1	- 4 -	<u> </u>			8 11			Drove casing to 4.0ft. Drilled	d to
	, , ,	,, <u> </u>		E E	6			7			4.0ft. Brown wash.	
				5 -	Ϋ́	IS E	12	10	17 •		3-3 at 411	
68	4.0		$-\Sigma$					8				
	Brown sandy CLAY, some silt, t	race fine gravel (wet) [CL]	_	Ē				8			S-4 at 6ft	
××××××××				- 7 -	8-4-	ss	16	9	19-		Rod Chattering	
				E				10			i tou onationing	
68	Brownish gray f-c SAND, some	silt, trace clay, trace fine grav	el	- 8 -				10			Drilled to 8.0ft. Brown wash	۱.
	(wet) [SM]				ю	s	4	9	24		S-5 at 8ft	
				F 9 -	Ś	s	-	15	24			
	Brownish groupilly for SAND	ama alay, traca fina arayal		F 10 -				19			S-6 at 10ft	
	(wet) [SM]	orne clay, trace fine graver						12				
				- 11 -	8-0-0	SS	16	23		38		
								20				
				= 12 -						\		
				- 13 -							Pig Chottoring	
											Rig Challening	
				- 14 -	1							
	5.0		J									
	Brownish gray silty f-c SAND, so	ome f-c gravel, trace clay (we	t)	15 -		E		31			Drilled to 15.0ft. Light brown	n
				- 16 -	1	ss	9	35		64	S-7 at 15ft	
				Ē		ľΕ		29				
				- 17 -	-	⊢ E		33			Rig chattering.	
				E E	1							
				F 18 -	1							
				- 19 -	1						Din shetterin r	
											rkig chattering.	
CAPA 67	0.0			+ aa -	ł	1					1	

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		of Boring _	BB-8		Sheet	2	of	2
Project	Proposed Commercial Campus at Fields Corner	Project No.	190065201					
Location		Elevation and	Datum	0 (]		0501.0		
	Southeast, New York		Approx el 69 Sample Data	0 (unknowr	n datum -	SESI Su	rvey)	
Elev WATERIAL (ft) +670	sample Description	Depth Scale	Number Type (in) Penetr. BL/6in	N-Value (Blows/ft) 10 20 30 40	(Drilling Fluid Los	Remai Fluid, Dep s, Drilling R	th of Casing esistance, e	J, etc.)
Report: Log - LANGAN	Gray silty f-m SAND, some clay, trace fine gravel (wet) [TILL] Gray clayey SILT, some f-c sand, trace clay, trace fine gravel	20 21 22 22 23 23 24 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	27 27 27 27 27 27 27 27	45+	Drilled gray br S-8 at 2 Drilled wash.	to 20.0ft. own wasl 20ft to 25.0ft.	Light bro ı. Gray bro	wn to
ERPRISE GPJ 6/7/2021 3:17:01 PM		26 - 27 - 28 - 29 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 3		44 •	S-9 at 2	25ft	Grouwa	
1990065201_ENT	Gray silty CLAY, some f-c sand, trace f-c gravel (wet) [IILL]		0 5 6 6 6 6 6 6 6 49 33 40 49 49 49 49 49 40 40 40 40 40 40 40 40 40 40	73•	Safety Auto ha S-10 at	50/5" Blo ammer. 30ft	wcounts f	from
WLANGAN.COMIDATAWPWIDATA2/190065201/PROJECT DATA_DISCIPLNE/GEOTECHNICAL/GINTLOGS/	End of boring to 32'	32 33 34 35 36 37 38 39 40 41 42 43 44 44 44			rinishe 4/27/20 with so pellets	21. Borin il cuttings upon con	at 9.19 A 1g backfill ; and beni pletion.	in on led tonite

LA	NGA	AN		Log	of E	Boring			BE	3-9			ę	Sheet	1	of	2
Project					Pro	oject No						-					
Location	Proposed Commercia	al Campus at Fields C	orner		Ele	evation a	ind D	atum	1900	06520	1						
	Southeast, New York	κ							Аррі	rox el (672 (ur	nknc	own	datum - SI	ESI Si	urvey)	
Drilling Com	bany				Da	te Starte	ed					Dat	e Fi	inished			
Dilli	Craig Geotechnical D	Drilling Co., Inc.				1.0	-		4	/28/21		_			4/	28/21	
Drilling Equip	oment	1.5			Co	mpletio	ו Dep	oth		~ ~ ~		Roc	ck D	lepth			
Size and Typ	CIME 75 ATV-mounte	ed Rig							Dist	20.9 fi urbed	l .	 (Jnd	isturbed		N.E.	
	3-7/8in Tricone Rolle	r Bit			Nu	mber of	Sam	ples	Diot	anbou	8		ona	lotarboa	-	2010	-
Casing Diam	eter (in) 4		Casing D	epth (ft) 4	Wa	ater Leve	el (ft.))	First ∏	t	6	(Corr L	npletion	- 2	24 HR. ⊻	-
Casing Ham	^{ner} Automatic	Weight (Ibs)	40 Drop	⁽ⁱⁿ⁾ 30	Dri	Iling Fo	emai	n –									
Sampler	2" OD Split Spoon				Fie	ld Engir	neer	P	aul N	lullins							
Sampler Han	nmer Safety	Weight (lbs)	40 Drop	(in) 30	1	na Engli	1001	G	onal	Gosw	ami						
	Galety		10		-			0	Sa	mple D	ata			_			
Elevice (ft)	л.	Sample Description	on			Depth Scale	mber	ype	ecov. (in)	enetr. esist _/6in	N-V (Blov	alue vs/ft)		(Drilling Fl	Rema	r ks pth of Casin	g,
bd ≥0 +672	0					L 0 -	Ĩ	-	Å,	a a B	10 20	30 4	0	Fluid Loss, L	rilling F	(esistance,	etc.)
Ž	Brown silty f-m SA	ND, some clay, trace	fine gravel w	ith roots/			-	ΙĒ		2				Started Di 4/28/2021	rilling	at 9:58 A	M on
						- - - 1 -	1	ss	2	2				S-1 at 0ft			
90							-0	ľ		2							
			. /			- 2 -	1			2	$ \rangle $						
502	Brown silty f-c SAN	ND, trace clay, trace fil	ne gravel (m	ioist) [SM]			-	ΙE		6				S-Z al Zit			
						- 3 -	22	ss	2	6	14						
							10	ľ		8							
			f			- 4 -	-			7	4 /				ing to		illod to
<u>ଥ</u> ୍ଯ	IMI 1	, some f-c sand, trace	f-c gravel (r	noist)		Ē	-			4				4.0ft. Brov	wn wa	4.011. DH ish.	lieu lo
	[1112]					- 5 -	- m	ss	9	3	9			S-3 at 4ft			
								ľ		6							
				· <u> </u>	. <u>V</u>	- 6 -	-			5				S 1 at 6ft			
	(wet) [CI]	/ CLAY, some t-m san	id, trace fine	gravei			-	ΙE		6				g_=.75 tsf			
						- 7 -	17	ss	12	3	8			iu.			
							3	E		5							
	Crovich brown silty	CLAV come f e con	d trace fine	arovol		- 8 -	-	+ E		4				Drilled to	8 Oft	Grav brow	wn
	(wet) [CL]	/ CLAT, Some I-C sand	u, trace line	graver		_	-	ΙĒ		2				wash.	5.0n.		VII
						- 9 -	-2-2-	SS	12	3	6			S-5 at 8ft	,		
						Ę]"	E		3	$ \rangle $			q _u =1.50 ts	ST		
662	0Gravish brown san	dy CLAY some silt t		aravel		- 10 -	1	┼╞		10				S-6 at 101	ťt		
	(wet) [CL]	ay olari, some sil, li	100 00ai 30	9.400		F	1	ΙĘ		5	$ \rangle$						
						- 11 -	-9-5	SS	15	12	22						
						-	-	ΙE		13							
						- 12 -	-	┼╘			1						
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	0					È.	-										
	Brownish gray silty	/ f-c SAND, trace clay,	trace fine g	ravel (wet))	E 15 -	1	† E		9	1			Drilled to	15.0ft	. Greenis	h gray
	[SM]		-				1			11				wash. S-7 at 15	ťt		
						- 16 -	Ξ'n	š	۲.	18	29	1			•		
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			of Boring	BB-9		Sheet	2	of	2
Project		Proposed Commercial Campus at Fields Corner	Project No.	190065201					
Locatior	l	Southeast, New York	Elevation and E	Datum Approx el 672	2 (unknow	n datum -	SESI SI	ırvey)	
	1		<u> </u>	Sample Data	a				
MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Type Recov. (in) Penetr. resist BL/6in	N-Value (Blows/ft)	(Drilling Fluid Loss	Rema Fluid, Dep , Drilling R	rks oth of Casing tesistance, e	l, etc.)
	+651 1	Gray silty f-c SAND, some f-c gravel, trace clay (wet) [SM]	20 - 20 - 00 - 00			Drilled t wash. 1	to 20.0ft. 6(1")-75	Gray brov -35 for	Nn
		End of boring at 21'	21 -		50/5	 remaini Autohai S-8 at 2 	ng lengti mmer. 20ft	n using	
			- 22 -			Finishe on 4/28	d drilling 2021. I	at 10:45 / Boring	AM
						bentoni	te pellets tion.	s upon	5 and
			- 27 -						
			- 28 -						
			- 29 -						
			30						
			- 31 -						
			- 32 -						
			33						
			- 34 -						
			35 -						
			36						
			- 37 -						
			- 38 -						
			- 39 -						
			45						

LA	NGA	4N		Log	of E	Boring			вв	-10			Sheet	1	of	2
Project					Pro	oject No						-				
	Proposed Commercia	al Campus at Fiel	ds Corne	r					1900	06520	1					
Location					Ele	evation a	nd Da	atum								
Drilling Comp	Southeast, New York	< <u> </u>				to Ctorte	. d		Appi	ox el (691 (u	hknow	n datum - SE	SI Su	rvey)	
Drilling Compa	ariy Onein Ocetachuicel F				Da	le Starte	a		4	107/04		Date	Finished	A !!		
Drilling Equipr	nent	Jrilling Co., Inc.			Co	mpletior	n Dep	th	4	21/21		Rock	Depth	4/2	27/21	
5 1 1	CME 75 ATV-mount	ed Ria				1	'			42 f	t				N.E.	
Size and Type	of Bit				Nu	mber of	Sam	nles	Dist	urbed		Un	disturbed	С	ore	
Casing Diame	3-7/8in Tricone Rolle	r Bit		asing Depth (ft)			Oam	0103	Firet		12		moletion		1 HR	-
	4			4	Wa	ater Leve	el (ft.)		∇		10		L .	- 2	V	-
Casing Hamm	er Automatic	Weight (Ibs)	140	Drop (in) 30	Dri	Iling For	emar	۱								
Sampler	2" OD Split Spoon			1	Ŀ			Pa	aul N	lullins						
Sampler Ham		Weight (lbs)		Drop (in)	I FIE	ela Engir	ieer	~		~						
	Safety		140	30			1	G	opal Sai	Gosw nple D	amı Data		T			
Elev.		Sample Dees	rintian			Depth	er	۵	ž	년 전 년 년 년 년 년	N-V	alue	R	lemar	ks	
		Sample Desci	πριοπ			Scale	Int	Typ	Reco (in)	^{>} ene resi: BL/6	(Blo	ws/ft)	(Drilling Flu Fluid Loss, D	ild, Dep rilling R	th of Casing esistance, e	J, etc.)
	Brown silty f-m SA	ND. trace clav. tra	ace fine o	ravel, trace roots		- 0 -		┢╒	-	2	10 20	30 40	Started Dr	illing a	at 9:38 AM	vi on
	(moist) [SM]					_	1_	ΙE		- 3			4/27/2021			
						- 1 -	ان ان	SS	16	5	8•		S-1 at Unt			
							3			8						
	Brown silty f-m SA	ND, trace clay, tra	ace fine g	ravel (moist) [SM]]	- 2 -	-	E		10	1 \		S-2 at 2ft			
							- N	s		10						
						- 3 -	ļώ	ŝ	-	10	20					
							-			10						
	No Recovery					- 4	4	ΙE		22			Drove cas	ing to	4.0ft. Dri n wash	led to
						- 5 -	- m	ls E	0	10	17+		S-3 at 4ft	DIOW	11 Wa311.	
							-lo	ľ		7						
685.0	David		14 4			- 6 -	-			8			S 4 at 6ft			
	Brownish gray san	dy CLAY, some s	ilt, trace f	-c gravel (moist)			1			9			3-4 at 011			
	[02]					- 7 -	4	ss	16	5	15					
						Ę]"			10			Rig Chatte	erina		
683.0	POSSIBLE BOULT	DER				- 8 -		SS		50/1		50/1	Drilled to 8	3.0ft. (Grav brow	'n
		SER				-			Ŭ	50/1			wash. Bou	ilder fr	om 8 ft to	o 10
						- 9 -	-						S-5 at 8ft	hroug	h boulder	•
					∇		-									
1081.0	Grayish brown clay	yey f-c SAND, sor	ne silt, tra	ace coarse gravel	<u> </u>	- 10 -	-	ŤΕ		7			Drilled to 1	10.0ft.	Greenish	ı gray
	(wet) [SC]						9		<u> </u>	12			wash. S-6 at 10f	ł		
						- 11 -	ြှပ်	IS E	1	13	25	(0-0 at 101			
						-	-			10						
						- 12 -	-					Λ				
						- 13 -	-									
							1					$ \rangle$				
						- - 14 -	3									
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676.0	Croy oilty f a SANI	D como alou troo	o f o aro	(maint) [T]]]		- 15 -	1	┝┍				$ \rangle$	Drilled to 1	15 Oft	Grav bro	wn
	Gray Silly I-C SAINL	J, some clay, trac	e I-c grav	ei (moist) [TILL]		Ē	3	ΙE		14			wash.	0.011.		VVII
						- 16 -		SS	16	22		52	S-7 at 15f	t		
						È	1			34						
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		of Boring	BB-10	:	Sheet 2 of 2
Project	Proposed Commercial Campus at Fields Corner	Project No.	190065201		
Location	Southeast, New York	Elevation and	Datum Approx el 691 (unl	known	n datum - SESI Survey)
Elev (ft) +671.	. Sample Description	Depth Scale	Sample Data I Abe I A	lue s/ft) 80 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
-LANGAN	Gray silty CLAY, some f-c sand, trace f-c gravel (moist) [TILL]	21 - 22	φ % ψ 14 16 31 32	47•	Drilled to 20.0ft. Gray brown wash. S-8 at 20ft
J 6/7/2021 3:17:11 PM Report: Log	Gray sandy SILT, some clay, trace f-c gravel (moist) [TILL]	26 - 26 - 27 - 28 - 28 - 28 - 28 - 28 - 28 - 28	²² ² ² ² ² ⁴⁰ ³⁷ 45	77+	Rod Chattering Drilled to 25.0ft. Gray brown wash. S-9 at 25ft
0GS/190065201 ENTERPRISE GP	Gray SILT, some f-c sand, some clay, trace f-c gravel (moist) [TILL]		2 5 5 7 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	48•	Drilled to 30.0ft. Gray brown wash. S-10 at 30ft
	Gray sandy SILT, some clay, trace f-c gravel (moist) [TILL]		\overline{b} $\overset{20}{\underset{1}{\overset{21}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{2}}{\overset{2}}{\overset{23}{\overset{23}}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{\overset{23}{2}}{\overset{23}{\overset{23}{\overset{2}}{\overset{2}}{\overset{2}{2$	44•	Drilled to 35.0ft. Gray brown wash. S-11 at 35ft Rig Chattering
COMIDATAWPWIDATAX1900652011PROJE	Gray silty f-c SAND, some clay, trace f-c gravel (moist) [TILL]	40 41 - 5	30 30 30 35 25 37	60+	Drilled to 40.0ft. Gray brown wash. S-12 at 40ft Finished drilling at 11:04 AM on 4/27/2021. Boring backfilled with soil cuttings and bentonite pellets upon completion.
"LANGA					

					Log	of E	Boring			BB	-11		_		Sheet	1	of	2
Project						Pro	oject No	D.										
Location		Proposed Commercia	al Campus at Field	ls Corne	er	Ele	evation	and D	atum	190	06520	1						
		Southeast, New York	<							App	rox el (687 (u	nkr	nown	n datum - SE	SI Su	rvey)	
Drilling C	Compa	any				Da	ate Starl	ed					Da	ate F	inished			
Drilling F	auinn	Craig Geotechnical E	Drilling Co., Inc.				mnletic	n Dor	th	4	/28/21		R	ock F)enth	4/2	28/21	
	_quipii	CME 75 ATV-mount	ed Ria				mpieuc	in Deb			37 f	ŀ		JUK L	ерш		NE	
Size and	Туре	of Bit	5414.9			NI	imher o	f Sam	nles	Dist	urbed			Und	listurbed	C	ore	
Casing D	Diame	3-7/8in Tricone Rolle ter (in)	r Bit		Casing Depth (ft)			louin	pico	Firs	t	11		Con	npletion	. 24	1 HR.	-
j-		4			13	W	ater Lev	/el (ft.))	$\overline{\nabla}$	-	6		Ţ	-	·	Ţ	-
Casing H	lamm	^{er} Automatic	Weight (lbs)	140	Drop (in) 30	Dr	illing Fo	orema	n –									
Sampler		2" OD Split Spoon				Fie	eld Enai	neer	Р	aul N	/lullins							
Sampler	Hamr	^{ner} Safety	Weight (lbs)	140	Drop (in) 30		5		G	iopal	Gosw	ami						
AL							-	_		Sa	mple D	ata			E	omar	ke	
VMBC	Elev. (ft)		Sample Descr	iption			Depth Scale	mber 1	ype	i cov.	netr. sist /6in	N-V (Blo	/alue ws/f	e it)	Drilling Flu	id, Dep	KS th of Casin	g,
₹ ⁱ 0	+687.0							NN	É.	Re	BL BL	10 20	30	40	Fluid Loss, D	illing Re	esistance,	etc.)
		Light brown f-c SA	ND, some silt, trac	e clay, t	race coarse		Ē	-	ΙE		2				Started Dr 4/28/2021	illing a	t 8:02 A	M on
		graver, trace roots					F 1	17	ss	4	3	79			S-1 at 0ft	-		
							Ē	1	Ē		4	$ \rangle $						
		l ight brown silty f-	c SAND trace clav	/ trace o	coarse gravel		- 2	-	E	_	4	+			S-2 at 2ft			
		(moist) [SM]		, 11400 0			F	=	ΙE		9 7							
							- 3	-1-2-	SS	12	10	17						
							E	-			7							
		Brown silty f-c SAN	ND, some clay, trad	ce f-c gra	avel (moist) [SM]		- 4	+	TE		14	1			Drove cas	ing to a	4.0ft. Dri	illed to
							Ë _	- 0			7				4.0ft. Ligh wash	i browi	n to brov	vn
							E 5	Ξ'n	l s	¥	6	13			S-3 at 4ft			
						∇	Ē	-			8			\mathbb{N}				
		Brown silty f-c SAN	ND, some clay, trac	ce f-c gra	avel (wet) [SM]	-					12				S-4 at 6ft			
							E 7	<u>5</u>	SS	9	6							
	679.6	POSSIBLE BOULT					Ę '	1	<u> </u>		50/5	$\left \right $	5	60/5	Possible b	oulder		
had	679.0	Gravish brown silty		and tra	ce f-c gravel (wet	<u>`</u>	- 8		+	_		$\left \right $			Drove cas	ina to l	8.0ft Ha	rd
		[CL]	/ CLAT, Some I-C S	sanu, ira	ice i-c graver (wet)	F	4			3			\square	casing driv	/e. Dril	led to 8.	Oft.
							- 9	-12-S	SS	16	6	11			Light brow	n to br	rown wa	sh.
								-			12		\mathbf{i}	$\langle $	0 0 0 01			
	-677.0	Grayish brown silty	y f-c SAND, with cl	ay pocke	et, trace f-c gravel	-	<u> </u>	-			17				S-6 at 10f	t		
		(wet) [SM]					E		SS	12	25							
							- 11 -	1	E		50/3		5	i0/3 •	Rod Chatt	erina		
							- 12	_								5		
							- '2	4										
							- 13	1								ina ta	12.0#	
							E	-							Hard casir	ng to 1g driv	13.011. Ə.	
							- 14	-								0		
							F	4										
	672.0	Gray silty f-c SANF	D. some clav trace	e f-c arav	vel (wet) [TILL1		- 15	+	E	-	20				Drilled to 2	5.0ft.	Gray bro	own
			-,,,,		···(···)[··=-]		E		LE		29				wash.			
<u>IIII</u>							E 16	<u>م</u> [SS	3	40			69	3-1 at 151			
							F	=	ΙĒ		38							
HALL)							F 1/	-				$\left \right \left \right $						
							E 19	E										
I KA							E '	Ę										
1919 D							- 19	F										
H H							Ē	-										
THILL							+	-		1	I							

	4	V	6	/	4	V	•
							-

			of Boring			BB-11			Sheet	2	of	2
Project		Proposed Commercial Campus at Fields Corner	Project No.			1900652	01					
Location	I	Southeast New York	Elevation and	Dat	tum	Annrox e	687 (ur	know	n datum	- SESLSI	Irvev)	
						Sample	Data			-		
MATERIA SYMBOL	Elev. (ft) +667.0	Sample Description	Depth Scale	Number	Type	Recov. (in) Penetr. resist		alue vs/ft) 30 40	(Drillin Fluid Lo	Rema ng Fluid, Dep ss, Drilling F	r KS oth of Casin Resistance, o	g, etc.)
		No Recovery. Gravel piece in drive shoe.	20		I	14			Drillec brown	l to 20.0ft wash.	Brown to	gray
g - LanGan			22	S-8	SS	28 28 3	5	49	S-8 at	20ft I in shoe		
5/7/2021 3:17:18 PM Report. L		Gray sandy SILT, some clay, trace fine gravel (wet) [TILL]	25	S-9	SS	CL 19 242 42 4	3	64	Drillec S-9 at Rig Cl boulde	l to 25.0ft 25ft nattering. er	. Gray wa Possible	sh.
0GS/190065201_ENTERPRISE_GPJ		Gray silty f-m SAND, some clay, trace fine gravel (wet) [TILL]		S-10	SS	16 27 25 2	7	42	Drilleo S-10 a	l to 30.0ft at 30ft	Gray wa	sh.
DISCIPLINE/GEOTECHNICAL/GINTL	650.0	Gray silty f-m SAND, some clay, trace fine gravel (wet) [TILL]	33 - 34 - 35 - 36 - 37 - 37	S-11	SS	26 C7 40 3	7	57	Drilleo S-11 a	l to 35.0ft at 35ft	Gray wa	sh.
LANGAN.COM.DATA.WPWDATA2/190065201(PROJECT DATA_D	₹U2U.U	End of boring at 37'	37 38 39 40 41 42 43 43 44						Finish 4/28/2 with s pellets	ed drilling 2021. Bori oil cutting s upon cor	at 9:41 A ng backfil s and ben npletion.	M on led tonite

LA	NLAA	A/V		Log	of B	oring			BB	-12		_	Sheet	. 1	I	of	2
Project					Pro	ject No.											
Location	Proposed Commercia	l Campus at Field	ds Corne	r	Elo	votion o			1900	06520	1						
Location	Southeast New York					valion ai		atum	Ann	ov el (363 (u	h	wn datum				
Drilling Compa	iny				Dat	e Starte	d		Appi		505 (u	Date	Finished		JUD	vey)	
	Craig Geotechnical D	rilling Co., Inc.							4	/27/21					4/2	7/21	
Drilling Equipm	nent				Cor	npletion	Dep	th				Rock	k Depth				
Size and Type	CME 75 ATV-mounte	d Rig			-				Dist	37 ft urbed	t		ndisturbe		C	N.E.	
	3-7/8in Tricone Roller	Bit			Nur	nber of	Sam	oles			11			-			-
Casing Diamet	er (in) 4		C	asing Depth (ft)	Wa	ter Leve	l (ft.)		First		15	C	ompletior	ı _	24	HR. V	-
Casing Hamm	^{er} Automatic	Weight (lbs)	140	Drop (in) 30	Dril	ling For	emar	ו									
Sampler	2" OD Split Spoon				Fiel	ld Engin	eer	Pa	auiiv	iuiiins							
Sampler Hamr	^{ner} Safety	Weight (lbs)	140	Drop (in) 30		Ū		G	opal	Gosw	ami						
						Denth			Sa	nple D	ata		_	Re	marl	(5	
Elev.		Sample Desci	ription			Scale	mbel	ype	ecov.	enetr. esist L/6in	(Blov	alue ws/ft)	(Drill	ing Fluid	, Dept	h of Casin	g,
5 ≥ ⁰⁰ +663.0			c			- 0 -	Ž		<u>ه</u> _	4 <u>=</u> E	10 20	30 40	Stort	od Drill	ing Re		M on
	(moist) [SM]	ND, trace clay, tra	ace fine g	ravel, trace roots	Ē		1			3			4/27/	2021.	ing a	. 11.207	
					Ē	- 1 -	5	ss	9	• 4	12 •		S-1 a	at Oft			
					E		1			10							
	Brown to light brow	n silty f-c SAND,	trace cla	y, trace roots	E	- 2 -	-			9	1 \		S-2 a	at 2ft			
	(moist) [SM]				þ		Ņ	s	4	10							
					F	- 3 -	ġ	io E	÷	12							
659.0						- 4 -	1			16			Drov	in	a ta /		lladta
	Brownish gray sanc	ly CLAY, some si	ilt, trace f	ine gravel (moist)	Ē		1			5			4.0ft	Brown	y to 4 n to lig	ght brow	ned to
	[]				Ē	- 5 -	5.3	ss	12	4	9		wash). .+ 4ft			
					þ	: :	1			5 7			5-3 2	11 411			
5 2 2 2 657.0	Brownish gray SILT	, some clay, som	ne f-c san		· — F	6 -	-	E	-	5	1		S-4 a	at 6ft			
	gravel (moist) [ML]				F		4		6	7							
					Ē	- / -	γ	s,	1	9	16•						
					È	- 8 -				11							
	Grayish brown silty (moist) [SM]	f-c SAND, some	clay, trac	ce f-c gravel	E		1			7		\setminus	S-5 a	d to 8.0 at 8ft	Jft. B	rown wa	isn.
	(moloc) [em]				F	- 9 -	- 2 2	ss	12	14		36					
					F					22							
653.0	Gravish brown silty	CLAY, some f-c	sand, tra	ce f-c gravel	· — [- 10 -	-		-	22			S-6 a	at 10ft			
	(moist) [CL]		,	Ū	Ē		6		_	17							
					Ē	- 11 -	۰.	SS	18	14	3	1					
					E	- 12 -				17							
					þ	. 12	1						N				
					F	- 13 -	-						Dia	bottori	20		
					Ē		1						rig c	Jialleii	ng		
					Ē	- 14 -	1										
					Ţ		1										
648.0 6 7	Grayish brown silty	f-c SAND, some	clay, trac	ce f-c gravel (wet)	-¥	- 15 -	-	E		20	1		Drille	d to 15	.0ft.	Gray bro	wn
	[TILL]			. ,	F		S-7	ss	16	24			wash	at 15ft			
646.6					F	- 01 -	1			50/4		50/	4				
646.0	PUSSIBLE BOULD	νEK			F	- 17 -	1						D: (bett	n~ ¬	oulde-	
					Ē		1						breal	throug	ng. B h	oulder	
					E	- 18 -	1							5			
					F		1										
					F	- 19 -	1										
					F		1										
100/170/28						- 20 -											

	A	/	V	6	Ż	4	V

			of Boring			BB	-12		Sheet	2	of	2
Project		Proposed Commercial Campus at Fields Corner	Project No.			1900)65201					
Locatior	ו	Southeast, New York	Elevation an	d Da	atum	Appr	ox el 6	63 (unknow	n datum	ı - SESI S	urvey)	
MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	(Drill Fluid L	Rema ling Fluid, De oss, Drilling	arks pth of Casing Resistance, o	g, etc.)
NGAN		Grayish brown silty f-c SAND, some clay, trace f-c gravel (wet) [TILL]	20 - 21 - 22 - 22 - 23 - 23 - 23 - 23 - 23	S-8	SS	22	20 22 26 34	481	Drille S-8 a	d to 20.0fi at 20ft Chattering	. Gray wa	sh.
021 3:17:24 PM Report. Log - LAI		Grayish brown sandy SILT, trace clay, trace f-c gravel (wet) [TILL]	24 - 25 - 26 - 27 - 27 - 27 - 27 - 27 - 27 - 27	S-9	SS	10	24 22 37 44	59	Drille wash S-9 a	d to 25.0fi i. at 25ft	Gray bro	wn
RPRISE. GPJ 6/7/20			28						Rig (Chattering		
LIGINTLOGS/190065201 ENTER		Grayish brown sandy SILT, trace clay, trace f-c gravel (wet) [TILL]	- 30 - - 31 - - 32 - - 33 -	<u>S-10</u>	SS	4	50/4	50/4	Drille wash S-10 swich Rig (d to 30.0fr at 30ft. 6- ned to auto Chattering	:. Gray bro 18-27-37 bhammer.	wn
DISCIPLINE/GEOTECHNICA	626.0	Grayish brown sandy SILT, some clay, trace fine gravel (wet) [TILL]	34	S-11	SS	20	22 19 18 21	37	Rig 0 Drille wash S-11	Chattering ed to 35.0fi at 35ft	Gray bro	wn
LANGAN.COMIDATA WPWIDATA2(190065201)PROJECT DATA _		End of boring at 37'	- 39 - 39 - 40 - 40 - 41 - 42 - 43 - 43 - 44 - 43 - 45						Finis at 4/2 with pellet	nea drillin 27/2021. È soil cutting ts upon co	g at 12:43 loring bac is and ben mpletion.	PM kfilled tonite

APPENDIX C

Logs of Site Borings

LANGAN

LA		of E	Borin	g		SL	B-1			Sheet 1	of	1
Project		Pr	oject N	۱o.								
Location	Proposed Commercial Campus at Fields Corner		ovation	and [Datur	190	06520	1				
Location	Southeast New York		evalioi		Jatui	Δnr	rov el i	642 (ur	knowr	n datum - SESI S	(urvev)	
Drilling Compa	any	Da	ate Sta	rted				042 (ui	Date F	Finished	urvey)	
	Craig Geotechnical Drilling Co., Inc.						5/4/21	1			5/4/21	
Drilling Equipm	nent	Co	omplet	ion De	pth				Rock [Depth		
Size and Type	CME 75 ATV-mounted Rig	_				Dis	<u>16.3 f</u>	t	Unc	disturbed	N.E.	
	3-7/8in Tricone Roller Bit	Νι	umber	of San	nples	8	uibeu	7		-	0010	-
Casing Diame	ter (in) Casing Depth (ft) 4	w	ater Le	evel (ft	.)	Firs	st 7 -	4	Cor	mpletion	24 HR. 	-
Casing Hamm	Automatic Weight (Ibs) Drop (in) 30	Dr	filling F	orema	an '	I	A					
Sampler	2" OD Split Spoon	Fi	eld En	gineer		-aul I	viuiins					
Sampler Hamr	ner Safety Weight (lbs) Drop (in) 30					Athira	Nair					
L PA		_	_			Sa	mple D	Data		Rem	arke	
/ BOB Elev.	Sample Description		Dep Sca	th lag	ADe N	i cov.	netr. sist /6in	N-Va (Blow	alue /s/ft)	(Drilling Fluid, D	epth of Casing	J.
≥ ⁰⁰ +642.0			L o	Ž	É	. Be	BL Pe	10 20	30 40	Fluid Loss, Drilling	Resistance, e	etc.)
	Dark brown silty f-c SAND, trace roots (moist)[TOPSOIL]		Ē	-			1			5/4/2021.	at 8:11 AN	/i on
			- 1	-17	SS .	9	4	79		S-1 at 0ft		
			F	Ę	·		3					
640.0	Gravish brown f-c SAND some silt (moist) [SM]		<u>-</u> 2	+			7	$+ \wedge +$		S-2 at 2ft		
			E				8					
			- 3	- 1 %	SS	15	9	17				
		∇	Ē.	=			7	$ \rangle$				
	Grayish brown silty f-c SAND, trace clay (wet) [SM]	<u> </u>	E 4	-		E	10	1 \		Drilled to 4.0ft.		
			ŧ,		0	Ħ۵	11			S-3 at 4ft		
			E 5	Ξ'n	, w	= ~	17	28	\searrow			
			Ē,	-			30					
	Tannish brown f-c SAND, trace silt, trace f-c gravel (wet) [SM]	I	ξŮ	4		E	66			S-4 at 6ft. Switched to au	to hammer	
635.0			Ę,		SS A	5	58		120			•
$\left[\left(\mathbf{X} \right) \right]$	Dark gray to black f-c GRAVEL (wet) [BOULDERS]		Ē	=			62					
634.0	Brown to black f-c SAND, some f-c gravel trace silt (moist)		÷ 8	-15-4	·D		84/5			Drilled to 8 Oft		
o Co~s	[SW]		F	ې م	SS	9	50/3		50/2	S-5 at 8ft		
0.0			- 9	-				1	50/5			
			E	=								
	Brown to black f-c SAND, some f-c gravel, trace silt (moist)		E 10			E	75	1		Drilled to 10.0f	t.	
	[SW]		F.,	v	SS	∎∞	80			S-6 at 10ft		
			E 11	1			- 50/1	1	50/1	•		
$\circ \bigcirc \bigcirc $			E 12	, <u> </u>								
			F '2	· -								
			F 13	-								
o Co~s			Ē	=								
0.0.			E 14									
			È	=								
0.0	Brown to black gravelly f-c SAND (wet) ISW1		- 15	;]-		╡─	70			Drilled to 15.0f	t.	
	· · · · · · · · · · · · · · · · · · ·		E	12	SS	15	67			S-7 at 15ft		
625.7			16 E	i ŢĨ		ŧ_	50/4		50/4	Einiched drillin	a at 0.04 A	Man
	End of boring at 16.3'		E	, _=						5/4/2021. Bori	y at 9.04 A ng backfille	ivi on d
			F 1/	Ŧ						with soil cutting	s and ben	tonite
			E 19	1						pellets upon co	inpietion.	
			E '	Í								
			- 19	, –								
			Ę	-								
			는 ₂₀) <u> </u>								

LA		og of	f Boring			SLB-2			Sheet	1	of	2
Project		F	Project No.									
1	Proposed Commercial Campus at Fields Corner					19006520	1					
Location			Elevation an	d Dai	tum						. .	
Drilling Comp	Southeast, New York	r	Date Started	1		Approx el 6	542 (ur	1knov	wn datum - 3 Finished	SESI	Survey)	
2g comp	Craig Geotechnical Drilling Co. Inc.			•		5/4/21		Duit			5/4/21	
Drilling Equipr	nent	0	Completion	Dept	n	5/4/21		Roc	k Depth		5/4/21	
	CME 75 ATV-mounted Rig					21.8 ft					N.E.	
Size and Type	of Bit	Ν	Number of S	Sampl	les	Disturbed	0	U	Indisturbed		Core	
Casing Diame	ter (in) Casing Depth (ft	t)		· ·		First	8	-c	Completion	-	24 HR.	-
g	4	4 ^V	Water Level	(ft.)		$\overline{\nabla}$	6		Ţ	-	Ţ	-
Casing Hamm	Automatic Weight (lbs) Drop (in)	0	Drilling Fore	man								
Sampler	2" OD Split Spoon		Field Engine	or	Pa	aul Mullins						
Sampler Ham	mer Sefet Weight (lbs) 140 Drop (in)	<u> </u>	riela Eligilie	ei	۸+	hira Nair						
	Salety 140 5	0			AL	Sample D	ata					
, Rev.	Sample Description		Depth	ber	e	interest	N-V	alue		Ren	narks	
HEX (ft)	Sample Description		Scale	Int	Typ	Pene Pene BL/6	(Blov	vs/ft)	(Drilling Fluid Loss	, Drillin	g Resistance	e, etc.)
+642.0	Dark brown silty f-m SAND, trace clay, trace roots (drv)		0	~		6	10 20	30 40	Started	drillin	g at 10:19	AM on
	[TOPSOIL]		E E		E	5			5/4/202	1.	-	
	organic content = 6.6%		[1 -]	۲.	S₿	ပို	11		S-1 at 0	ft		
			E			6						
640.0	Brown silty f-c SAND, trace clay (moist) [SM]		2 -			14			S-2 at 2	ft		
			EE	S-2A		10						
639.0	Brown clayey f-c SAND, some silt, some f-c gravel (moist)				SS≣	₩ 7	17•					
			E I	S-2B	E	10						
	No Recovery		- 4 -		Ħ	7			Drilled to	o 4.0f	it.	
			EE	~		8			S-3 at 4	ft		
			= 5 -	Ϋ́	SS⊟	0 9	17+					
		7	,			9						
······································	Yellowish brown sandy CLAY, some silt, some fine gravel (wet)	¥E 6 ∃		Ε	7	i		S-4 at 6	ft		
× × × × × ×	[CL]			4	』目	6						
				γ	šΕ	∾ 7	13+					
					E	5						
× × × × × × × ×	No Recovery		E		E	5			Drilled to	o 8.0f	t.	
			F _ F	ю	s≣	7	4		5-5 at 8	π		
			E 9 I	ώ	s	9						
× , , , , , , , , , , , , , , , , , , ,			E 10 -			10						
	Yellowish brown silty CLAY, some f-c sand, some f-c grave	el			E	10			S-6 at 1	Oft		
	(wet) [CL]			φ	Ω₿	→ 7	16					
////			'	S	°≣	9	" \					
					E	9		$\langle $				
////			E 13 -					$ \rangle$				
			Ē									
////			- 14 -						N			
× × × × × ×			E i i									
627.0	Drown to block oilty for CANID arms for more three of		-+ 15 -						Drillod +	n 15 ()ft	
	вгоwn to black slity t-c SAND, some t-c gravel, trace clay (moist) ITILL1		Ē			22			S-7 at 1	5 15.0 5ft	л.	
(J) (A)	(·······/ [···=·]		- 16 -	2-7	s₿	얻 40		7	'1			
			E E		目	31						
			E 17 -		Ħ	30						
			- 18 -									
HAMA STA			_									
			F 19 -									
			F =						Λ			
XIXIII A			20						/1			

L	A		of Boring			SLI	3-2		Sheet 2 of 2
Project			Project No.						
Location	1	Proposed Commercial Campus at Fields Corner	Elevation a	nd Da	atum	1900)6520 ⁻	1	
		Southeast, New York				Аррі	ox el 6	642 (unknow	n datum - SESI Survey)
						Sar	nple D	ata	
MATERIA SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Gray silty f-m SAND, trace clay, trace f-c gravel (moist) [TILL]	20 -	1			9		Drilled to 20.0ft.
	620.2		- 21 -	8-8 -8-9	SS	12	17 21 50/4	38 •	S-6 at 2011
<u> </u>	020.2	End of boring at 21.8'	22 -				00/1		Finished drilling at 11:30 AM on 5/4/2021. Boring backfilled with soil cuttings and bentonite
			- 23 -						pellets upon completion.
			- 24 -						
-			- 25 -						
			- 26 -						
			- 27 -						
			- 28 -						
			- 29 -						
			- 30 -						
			- 31 -						
			- 32 -						
			- 33 -						
			- 34 -						
			- 35 -						
			- 36 -						
I			- 37 -	-					
			- 38 -						
			- 39 -						
			- 40 -						
			41 -						
			42 -						
			- 43 -						
			- 44 -						
				1					

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LA	AVA		A/		Log	of E	Boring			SLI	B-3		_	Sheet	1	of	1
Project						Pro	oject No										
	Proposed (Commercia	al Campus at Field	ls Corner						1900	06520	1					
Location						Ele	evation a	nd Da	atum								
	Southeast,	, New York								App	rox el 6	632 (u	hknov	vn datum - Sl	ESI Sur	vey)	
Drilling Co	mpany					Da	te Starte	ed					Date	Finished			
Drilling For	Craig Geol	technical D	rilling Co., Inc.			6	malatio	Dan	th	4	/29/21		Deal	Donth	4/2	9/21	
		T /					mpiellor	Dep	un		47.0		ROCK	Depth			
Size and T	CIVIE 75 A	I V-mounte	ed Rig							Dist	17 Ti urbed	[ndisturbed		N.E.	
	3-7/8in Tri	cone Rolle	r Bit			Nu	mber of	Sam	ples		arbou	7		naiotarboa	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-
Casing Dia	ameter (in) 4			C	asing Depth (ft) 4	Wa	ater Leve	el (ft.)		First	t	4	C	ompletion	- 24	HR. V	-
Casing Ha	^{mmer} Automatic		Weight (Ibs)	140	Drop (in) 30	Dri	Iling For	remar	ו ם		Aulline						
Sampler	2" OD Spli	t Spoon				Fie	eld Enair	neer		auriv	iuiiiiis						
Sampler H	lammer Aut	omatic	Weight (Ibs)	140	Drop (in) 30		0		G	iopal	Goswa	ami					
	, (41	omatio		110		-				Sa	mple D	ata					
	lev.		Sample Descri	intion			Depth	ber	e		etr. ist Sin	N-V	alue	(Drilling El	temarl	KS th of Casin	
() WAT	(ft)			ption			Scale	L m	Typ	(in Cec	Pene resi BL/6	(BIO	NS/π)	Fluid Loss, E	Dept Drilling Re	sistance, e	a, etc.)
	Brown s	iltv f-c SAN	D. trace clay, trac	e fine ar	avel (moist) [SM]		- 0 -			-	1	10 20	30 40	Started di	illing at	9:53 AN	1 on
5	2.0		.2,	e inte git			-	1	ΙĒ		' 1			4/29/202	1.		
							- 1 -	32	SS	22	2	₹		S-1 at Oft			
							È	1	ΙĘ		1						
	Light bro	wn eiltyf	SAND come de	(moist)	[SM]		- 2 -	1	<u> </u>		4			S-2 at 2ft			
	LIGHT DIC	JWIT SILLY I-C	SAND, Some day	y (moisi)			Ē	3			4	$ \rangle $		0 2 0 21			
							- 3 -	12	ss	19	5	15					
								30	Ē		10						
ō						∇	- 4 -	-			6						
2	Grayish	brown silty	f-m SAND, some	clay, sor	ne silt (wet) [SM]		- '	4			4			4 Off Gre	sing to 4 enish c	1.0ft. Drii Irav wasł	led to
							Е <u>Б</u>	- - - - -	S	5	5			S-3 at 4ft	ernorr g	iay wasi	
								-0	l° E		4	~ \					
	26.0						F _	-			6						
	Greenis	h gray sano	dy CLAY, some silf	t, trace f-	c gravel (wet)		- 6 -	-			9	1 \		S-4 at 6ft			
	[CL]						- 	4	l o E		11						
							E / -	Ξ'n	lő –	= =	8	19					
	24.0							1	ΙE		7	/					
	Greenis	h gray silty	CLAY, some f-c s	and, trac	e f-c gravel (wet)	-	- 8 -	-			2	1 /		Drilled to	8.0ft. G	reenish	gray
	[CL]						Ē]	LE		4			wash.			
							- 9 -	1.	SS	12	4	8		5-5 at oit			
]	ΙĘ		a	$ \rangle$					
	Dark ora	y to brown	ish grav sandv f-c	GRAVE	, trace silt (wet)		- 10 -	+	┢╞		24		\setminus	S-6 at 10	ft		
$[\circ \bigcirc \circ]$	[GW]	,	. <u>.</u>		,		E	- 9	s	0	-T 20						
							- 11 -	Ξ'n	Ň	Ĩ	20		44	•			
							È	1	Ļ.Ē	1							
							- 12 -	-									
0.01							L -	1									
بي في فا							- 13 -	1						Rig chatte	arina		
							Ē]							, ny		
źp: Q. Q.							- 14 -	1						Die chatt	orin a		
SUNC:							È	1						rkig chatte	ning		
	17.0						- 15 -	1	 		1				45.00	o	
	Gray sar	ndy SILT, s	ome clay, trace fir	ne gravel	(wet) [TILL]			1	ΙĒ		6			Drilled to	15.0ft.	Greenish	n gray
							10	<u>-</u> -E	s	4	10			S-7 at 15	m gray ft	wasii.	
								٩	S	T	11						
	15.0						È,_	4	ΙĒ		25						
	End of h	oring at 17	•				E 17 -	-				1		Finished	drilling a	at 10:23	AM
		3					F	-						on 4/29/2	U21. Bo	oring	e and
							- 18 -	1						bentonite	pellets	upon	o di lu
3]						completio	n.		
							- 19 -	1									
ξ							F	1									
ž e la k							<u>⊏ 20 -</u>	1									

LA	4	NLAA	A/V		Log	of E	Boring			SLE	3-4		_	Sheet	1	of	1
Project						Pro	oject No).									
		Proposed Commercia	al Campus at Field	ls Corner						1900	06520	1					
Location						Ele	evation	and Da	atum								
Drilling Co	mee	Southeast, New York	<u>.</u>			Da	to Stort	ad		Appr	ox el 6	636 (u	nknov	vn datum - S	ESI Su	rvey)	
Drining CC	лпра	Craig Costophnical D	villing Co. Inc.					eu		1	120/24		Date	TITISTICU	Alc	00/24	
Drilling Eq	uipm	ent	ming Co., Inc.			Co	mpletio	n Dep	th	4/	29/21		Rock	Depth	4/2	9/21	
5		CMF 75 ATV-mounte	ed Ria								17 ft			I		NF	
Size and T	Гуре	of Bit				NI	mbor o	fSom	nlog	Distu	urbed		- U	ndisturbed	С	ore	
Oneire Di		3-7/8in Tricone Roller	r Bit			INU	mber o	i Sam	pies	Eine 4		7			-	4.110	-
Casing Dia	amet	er (in) 4			asing Deptn (π) 4	Wa	ater Lev	el (ft.)		$ $ ∇		8			- 24	i HR. V	_
Casing Ha	amme	er, utomotio	Weight (lbs)	140	Drop (in)	Dri	lling Fo	remar	۱	<u> </u>						<u>+</u>	
Sampler				140		1			P	aul N	lullins						
	1	2" OD Split Spoon	Weight (lbs)		Drop (in)	Fie	eld Engi	neer									
	amn	Automatic		140	30				G	iopal	Goswa	ami					
							Denth		1	Sar	nple D	ata	alua	- F	Remar	ks	
T: Lo	(ft)		Sample Descri	iption			Scale	mpe	ype	scov	esist L/6in	(Blo	ws/ft)	(Drilling Fl	uid, Dep	th of Casing	j,
	636.0	D		. ,			— 0 -	ź	-	ž	<u>م ع</u> م	10 20	30 40	Ctorted d			Man
[∞]		Brown silty f-c SAN	ID, some clay, trac	ce roots (moist) [SM]			-			1			4/29/202	niing a 1.	10:53 A	ivi on
M							- 1	17	ss	2	1 2	•		S-1 at 0ft			
7.41								100	ľ E	Ì	1						
1 3:1				c			- 2	-			2			S 2 at 2ft			
		Brown slity t-c SAN	ID, some clay, trac	ce fine gr	avel (moist) [Sivi]		_	-			1			3-2 at 211			
2/9							- 3	12	ss	2	6	13					
							_	3	ľ		7						
	532.0						- 4	-			5			Drove car	sing to	∕l Oft ⊡ril	led to
SIR 1		IMI 1	, some t-c sand, tr	ace fine g	gravel (moist)		_	-			10			4.0ft. Bro	wn was	sh.	ieu io
		[=]					- 5	12	ss	2	8	15•		S-3 at 4ft			
							-	= "	Ē		7						
	530.0					·	- 6				9			S-4 at 6ft			
		Drownish gray sand	Jy CLAT, Some Sil	it (moist)	[UL]		-	3			8			0 4 41 011			
							- 7	45	ss	6	5	10+					
						_	-				5						
	528.0	Grav clavev f-m SA	ND some silt_tra			. <u>¥</u>	- 8				5			Drilled to	8 0ft (Greenish (arav
		passing $#200 = 49^\circ$	%	oc i-o giz			-	1			4			wash.	0.0.0		9
		wc = 14.0%					_ 9	-1-S	SS	12	5	74		S-5 at 8ft			
							_	=			5 -						
	626.0	Brown to grav silty	f-m SAND trace of	clay, trace	e f-c gravel (wet)	_	10	1	┼╞		7	$ \rangle$		S-6 at 10	ft		
		[TILL]					_	=	ΙĒ		, 12						
Ž							_ 11	-1°-	SS	2	16	29)				
							_	-			18						
							_ 12				10						
							_	-									
E							_ 13	-	1								
							-	-	1								
							- 14	-									
	24.0						-	-									
	JZ1.U	Gray silty f-m SANI	D, trace clay, trace	e f-c grav	el (wet) [TILL]	· — ·	— 15 _	+	TE		10			Drilled to	15.0ft.	Gray bro	wn
			-	-					L E	 _	12			Wash.	ft		
							- 16	ې آ	SS	==	17	2	9	0-7 at 10			
Š	310 0						L	4			17						
		End of boring at 17	1				— 17	-				1		Finished	drilling	at _. 11:187	AM
TAC		Ŭ					-	4	1					on 4/29/2 backfilled	∪21. B with ∝	oring	s and
WO							- 18	-	1					bentonite	pellets	upon	
Ŭ Z							-	-						completio	n.		
NGA							- 19	-									
							- 20.	-									

LA		of E	Boring			SLB	-5		Sheet 1 of 1
Project		Pr	oject No.						
1	Proposed Commercial Campus at Fields Corner	-			4	19006	5201		
Location	Cautharast Man Varia	EI	evation a	na Da	atum	A		- 1	
Drilling Comp	Southeast, New York	Da	ate Starte	d		Approx	(ei 650 (ur	Date	Prinished
	Craig Geotechnical Drilling Co. Inc.					5/	4/21		5/4/21
Drilling Equip	ment	Co	mpletior	Dep	th	0/	.,	Rock	<pre>CDepth</pre>
	CME 75 ATV-mounted Rig						17 ft		N.E.
Size and Type	e of Bit	Nu	umber of	Sam	oles	Disturb	bed 7	U	ndisturbed Core
Casing Diame	ster (in) Casing Depth (ft)		ator Love			First	/	C	ompletion 24 HR.
Casing Hamm	4 4 A	Dr	illing For	emar	1	<u> </u>	4		<u> </u>
Sampler	Automatic 140 30	-			Pa	aul Mu	llins		
Somplor Hom	2" OD Split Spoon	_ Fi€	eld Engin	eer					
Sampler Ham	Safety 140 500 30				At	thira Na	air Ja Data		
ਸੋਟੋਡ Flev			Depth	5		Samp		alue	Remarks
	Sample Description		Scale	qur	Lype	ecov (in)	(Blov	vs/ft)	(Drilling Fluid, Depth of Casing, Fluid Loss Drilling Resistance, etc.)
≥ +650.0) Dank bravna ta light bravna silt of na CAND trace alou trace for		- o -	ź		e e	- m 10 20	30 40	Started drilling at 9:33 AM on
	gravel, trace roots (moist) ITOPSOIL1		E	1		2			5/4/2021.
	grates, alloc roots (- 1 -	1	ss	8	2 69		S-1 at 0ft
			E		ΪĒ	4			
648.0	Prown SILT, some fim conditions alow (moint) [ML]		- 2 -	-			4		S-2 at 2ft
			E	-			2		0-2 8 21
			- 3 -	22	ss	15	7 13•		
			_		Ē	6			
			<u>/-</u> 4 -	-			6		Drove casing to 4 Off Drilled to
	passing #200 = 49.9%		E	-		2			4.0ft.
	wc = 12.8%		- 5 -	- m	sE	15	⁵ 10		S-3 at 4ft
			E	10	E	5			
	One sick horses all of a CANID trace alou (wet) [CM1]		- 6 -	-			7		S_4 at 6ft
	Grayish brown silly I-c SAND, trace day (wet) [Sivi]		E]		9			0-4 80 010
			- 7 -	_ S-4A	ss	12	⁴ 12•		
			_			8			
642.0) Vellowich tannish brown sandy SILT, some clay (wet) IML		- 8 -	S-4B	E		5		Drilled to 4 Oft
			-			6			S-5 at 8ft
			- 9 -	2-2-	ss	ę	⁶ 14 •		
			F			8			
640.0			[10 -				12		S-6 at 10ft
			F	1					
			- 11 -	-9-0	ss	6	23	.	
			F	-					
			- 12 -	_			15		
			-	1					
			- 13 -	-					
			-	1					
			- 14 -	-					
			Ē	-					
///////-635.0	Yellowish tannish brown silty f-c SAND_trace clay_trace f-c		- 15 -	-	FE	1	7		Drilled to 15.0ft.
	gravel (wet) [SM]		Ē			'	20		S-7 at 15ft
634.0	Dark gray sandy CLAY. trace f-c gravel (wet) ITILL1		- 16 -	-	ss	18,	4	44	• [
			E	S-7B			25		
e42/282/24 633.0	Find of boring at 17'		- 17 -			+			Finished drilling at 10:03 AM
			Ē	1					on 5/4/2021. Boring backfilled
			- 18 -	1					pellets upon completion
			E	1					- Succe apon completion
			- 19 -	1					
			E	-					
	1		<u> </u>						1

L	4	NLAA	A/V		Log	of E	Boring			SLE	3-6		_	Sheet	1	of	1
Project						Pro	oject No										
Location		Proposed Commercia	I Campus at Field	ds Corner			votion	nd D	atum	1900)6520 ⁻	1					
Location		Southeast New York					evation a	na Da	atum	Appr	ov al F	S/Q (11	nknov	wn datum - S			
Drilling C	ompa	ny				Da	ite Starte	ed		Аррі		049 (u	Date	e Finished	ESI Su	ivey)	
		Craig Geotechnical D	rilling Co., Inc.							4/	29/21				4/:	29/21	
Drilling E	quipm	ient				Co	mpletior	ו Dep	th				Roc	k Depth			
Size and	Type	CME 75 ATV-mounte	d Rig							Distu	17 ft urbed			Indisturbed		N.E.	
	.)po	3-7/8in Tricone Roller	Bit			Nu	imber of	Sam	ples	2.010		7			-		-
Casing D	liamet	er (in) 4		C	asing Depth (ft) 4	W	ater Leve	el (ft.)		First ∑		4	C	Completion	- 2	4 HR. <u>¥</u>	-
Casing H	lamme	Automatic	vveight (ibs)	140	Drop (in) 30	Dr	liling For	emar	ו ס	oul M	ulling						
Sampler		2" OD Split Spoon				Fie	eld Engir	neer	Pa	aui ivi	uiins						
ບໍ່ Sampler I	Hamn	ner Automatic	Weight (Ibs)	140	Drop (in) 30		-		G	opal(Goswa	ami					
g-LA	- 1						Dauth	-		San	nple D	ata		_	Rema	rks	
T: Lo	(ft)		Sample Descr	ription			Scale	mbe	ype	ecov.	enetr esist L/6in	(Blo	alue ws/ft)	(Drilling F	Fluid, Dep	oth of Casin	g,
v≊ je	649.0						— o -	z		۳ ۳	а <u> </u>	10 20	30 40	Started c	Trilling C		M on
		Brown slity t-m SAN	ND, trace clay (mo	oist) [Sivi]				-			1			4/29/202	21.	L 11.31 A	
NH 6							- 1 -		SS	9	1 ¹ 1	٦		S-1 at 0f	t		
21								-	ΙE		4						
0213		Light brown silty f-n	n SAND, trace cla	ay, trace f	ine gravel (moist))	- 2 -	-			5			S-2 at 2f	ť		
8/7/2		[SM]					-	-0	s	0	5						
							E 3 -	÷	s	~	8						
	-645.0					∇	- - 4 -	-			7				oina to		llad to
SIRC		(wet) [SC]	₃y t-c SAND, som	ne silt, tra	ce fine gravel		-	-			4			4.0ft. Gr	ay brow	/n wash.	lieu lo
LER		()[]					- 5 -	S-3	ss	4	2	74		S-3 at 4f	t		
							E	-			3 4						
	-643.0	Brownish gray silty	f-c SAND, some	clay, trace	e fine gravel		6 -	-	ΗĒ		7			S-4 at 6f	ť		
806		(wet) [SM]		-	-		F _	4		-	11						
GS/1							- / - -	Ξώ	l s	-	5	16•		Rig chat	ering.		
₿ I	641.0				-		- 8 -	1			6			Duille al ta	0.04	O mer : hmer :	
		Gray f-c SAND, trac	ce clay, trace silt ((wet) [SP]			-	ΙE		3			wash.	0.011.	Jay Drow	VE
NICA							- 9 -	S-5	SS	ø	3	13		S-5 at 8f	t		
							E	-			10	$ \rangle$					
E CONTRACTOR	-639.0	Greenish gray sand	ly SILT, some cla	y, trace f-	c gravel (wet)		- 10 -	-	E		11		\setminus	S-6 at 10	Oft		
PER		[TILL]					Ē	- - - -	s	6	12						
							- 11 -	Ξώ	ŝ	Ē	25		3/				
							- 12 -	1			20						
VEL CONTRACTOR							-	-									
							- 13 -	-									
DEC							E	-									
Here and the second second second second second second second second second second second second second second							- 14 - E	-									
								-									
		Greenish gray claye	ey SILT, some f-c	sand, tra	ice f-c gravel		E 15 -	-	E		14			Drilled to	15.0ft.	Greenisł	n gray
THE FORMER							- - 16 -	1	ss	2	17		42	S-7 at 15	ōft		
							Ę	=	ľΕ	i	25						
	632.0		,				- 17 -	1	<u>⊢ E</u>		26			Finished	drillina	at 11:58	AM
ATA		End of boring at 17					E	-						on 4/29/2	2021. B	loring	
Ū W							- 18 -							bentonite	a with so e pellets	UII CUTTING	is and
ŭ Z								-						completi	on.		
NGA							L- 19 - F	-									
2							Ė 20 -	-	<u> </u>								

LA	ΝΔΑ	A/V		Log	of E	Boring			SLE	8-7			Sheet	1	of	1
Project					Pr	oject No										
Location	Proposed Commercia	al Campus at Field	ds Corner		Ele	evation a	and Da	atum	1900	65201						
Drilling Com	Southeast, New York	(to Ctort	. d		Appro	ox el 6	64 (ur	hknow	n datum - S	ESI Su	rvey)	
	Craig Centechnical F				Da	ile Starie	eu		1/	28/21		Date	rinished	115	28/21	
Drilling Equip	ment	Jinning CO., Inc.			Co	mpletio	n Dep	th	-+/.	20/21		Rock	Depth		-0/21	
	CME 75 ATV-mounte	ed Rig								17 ft					N.E.	
Size and Typ	e of Bit 3-7/8in Tricone Rolle	er Bit			Νι	mber of	Sam	ples	Distu	rbed	7	Un	disturbed	- C	ore	-
Casing Diam	eter (in) 4		Ca	asing Depth (ft) 4	w	ater Lev	el (ft.)		First 		4	Co	mpletion	- 24	4 HR. ⊻	-
Casing Ham	^{ner} Automatic	Weight (Ibs)	140	Drop (in) 30	Dr	illing Fo	remar	ו								
Sampler	2" OD Split Spoon				Fie	eld Engir	neer	Pa	auiwi	uiiins						
Sampler Han	^{nmer} Safety	Weight (Ibs)	140	Drop (in) 30		-		G	opal (Goswa	mi					
						Dopth	-		San	nple Da	ita	-1	-	Remar	ks	
		Sample Descr	ription			Scale	mbe	Type	ecov.	esist L/6in	(Blov	aiue vs/ft)	(Drilling F	luid, Dep	th of Casin	g, etc.)
5 ≤ +664	0 Brown to light brow		traca alay	traca roota		- o -	ź	╞╴	ΩΩ (<u> </u>	10 20	30 40	Started d	rilling a	t 10.56 /	M on
	(moist) [SM]	In Silly I-C SAIND,	trace clay	, trace roots		Ē	-	ΙE		3			4/28/202	1. 1.	10.007	
						- 1 ·		SS	12	4 ³ 7	1		S-1 at Oft			
						E	-			11						
	Brown to light brow	vn f-c SAND, som	e silt, trac	e clay, trace fine		- 2 -	-	TE		3			S-2 at 2ft			
	gravel (moist) [SM]]				-	- 2	s	4	6						
						- 3 -	- Ó	S		10						
660		· · · · · · · · · · · · · · · · · · ·			$\overline{\nabla}$	- 4 -	-			9			Drovo co	sina to	√0 ft	rillod
	Brown sandy CLA	r, some silt (wet) [[CL]			-				4			to 4.0ft. E	Brown v	vash.	llieu
						- 5 -	5.3	ss	12	_ 3	3 🕴 📗		S-3 at 4ft			
						-	-	ΙE		5 5						
2 2 2 658	Brown sandy SILT,	, some clay (wet)	[ML]			- 6 ·	-	F		5			S-4 at 6ft			
						Ē	4			5						
						E 7 ·	ļγ	SS E	7	6	1					
	0					-	-			5					_	
	Grayish brown silty	/ CLAY, some f-c	sand, trac	e fine gravel		Ē	-	ΙE		2			Drilled to S-5 at 8ft	8.0ft. E	3rown wa	ash.
						- 9 -	- 5	ss	4	25	4		q _u =.75 ts	i		
								ΪĒ		3						
654	Gravish brown clay	vev f-c SAND son	ne silt tra	ce fine gravel	· —	- 10 -		HE		3			S-6 at 10	ft		
	(wet) [SC]	, c , c , , c						ΙE		2						
	passing #200 = 46 wc = 13.3%	·%				- 11 -		SS	12	4 6	•					
						- 10	-			6						
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649. 2011 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 -	0 Greenish gray san	dy SILT, some cla	y, trace f-	c gravel (wet)		- 15 -	-	╞		12			Drilled to	15.0ft.	Gray bro	own
		- /		- \ /		E			<u> </u>	20			wash.	ft		
						- 16 ·	Ξ'n	١š 🗄	Ĕ	25		45				
647.	o					- - 17 -	-	LĒ		28			End to the			
	End of boring at 17	<u>7</u> '				È ''	1						on 4/28/2	ariiing 2021. B	at 11:28 oring	AIVI
						- 18 -	-						backfilled	with so	oil cutting	gs and
5.						-	-						completic	pellets n.	upon	
						- 19 -	-									
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· · · · · · · · · · · · · · · · · · ·						- 00 -	-		· 1							

LA	NLAA	A N		Log	of E	Boring			SLB	-8			She	et	1	of	2
Project					Pro	oject No.											
Location	Proposed Commercia	al Campus at Fields	s Corner		Ele	evation a	nd Da	atum	19006	65201							
	Southeast, New York	(Appro	ox el 65	55 (ui	hknov	wn dati	um - SE	SI SL	urvey)	
Drilling Compa	any One in One to a basis of D				Da	ite Starte	ed		_	10104		Date	Finish	ed	,		
Drilling Equipr	nent	Drilling Co., Inc.			Co	mpletior	n Dep	th	5	/3/21		Rock	k Depth			5/3/21	
	CME 75 ATV-mounte	ed Rig								22 ft						N.E.	
Size and Type	of Bit 3-7/8in Tricone Rolle	r Bit			Nu	mber of	Sam	ples	Distur	bed	8	U	ndistur	bed	_ 0	Core	_
Casing Diame	ter (in)		Ca	asing Depth (ft) 4	w	ater Leve	el (ft.)		First ∑		4	C	omplet	ion ,	- 2	24 HR. V	-
Casing Hamm	^{ler} Automatic	Weight (Ibs)	140	Drop (in) 30	Dr	illing For	emar	ו									
Sampler	2" OD Split Spoon	·			Fie	eld Engir	eer	Pa	aul Mu	ullins							
Sampler Ham	mer Safety	Weight (Ibs)	140	Drop (in) 30	1	ina Erigii		At	thira N	lair							
		1			-			1	Sam	ple Da	a		_	E		arke	
Elev.		Sample Descri	ption			Depth Scale	mber	ype	in) v	sist /6in	N-V (Blov	alue vs/ft)	_ (C	Drilling Flu	id, Der	pth of Casir	ng,
δ ≥ ⁰⁰ +655.0	Darlaharan silta fa			t . (.h)		L 0 -	Ž		<u> </u>		10 20	30 40	Fiuld	I Loss, D	Tilling F	t 8.00 A	etc.)
ш -	[TOPSOIL]	c SAND, trace silt, t	trace root	ts (dry)			1			3			5/3	3/2021.	iiiiig a	al 0.09 A	
Z PA						- 1 -	5	SS	∞ .	2 5			S-1	1 at Oft			
.17:5							1			2							
653.0	Brown f-c SAND, s	ome silt, trace fine	gravel (n	noist) [SM]		<u> </u>	-	E		4			S-2	2 at 2ft			
8/7/2						-	~	s		3							
						- 3 -	م ا	io E		3							
б ш			<u>, </u>		$\underline{\nabla}$	- 4 -	1			4			Dr		ina to		illed to
	Brown sandy CLAY	r, some silt, trace i	t-c gravel	I (wet) [CL]		-	1		1	6			4.0)ft.	ing to	4.011. DI	illed to
						- 5 -	S-3	ss	12	⁵ و			S-3	3 at 4ft			
						E	-	ΙE		4 4							
	Brown sandy CLA	Y, some silt, trace fi	ine grave	el (wet) [CL]		- 6 -	+	ΙĒ		5			S-4	4 at 6ft			
			-			F _	4			3							
						- / -	ļ	lis I	₩,	4 (•						
		ANID 114 /				- 8 -	1			3			Dri	illed to (0.044		
	passing #200 = 46	AND, some silt (we %	et) [SC]				1			2			S-	5 at 8ft).UIL.		
SI SI SI SI SI SI SI SI SI SI SI SI SI S	wc = 13.1%					- 9 -	S-5	SS	12	, ³ 7							
HOLE CH							_	ΙE		5							
	Grayish brown clay	ey f-c SAND, some	e silt (wet	t) [SC]		- 10 - E	<u>+</u>			4			S-6	3 at 10f	t		
						-	φ	s		5							
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						- 12 -	1	E		8							
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HILL AND AND AND AND AND AND AND AND AND AND						- 14 - -	1						Ŋ				
00077777770 0007777777700						- 15 -	1										
	No Recovery						1			19			Dri S-7	lled to 1 7 at 15f	15.0ft. t		
						- 16 -	5-1	ss	0	30		6	9				
						F	1	ΙE		30							
						- 17 -	+	╞╴									
TACK AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND ALL AND A						Ē	7										
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			of Boring	SLB-8		Sheet	2	of	2
Project		Bronosod Commercial Compute at Fields Corpor	Project No.	1000652	01				
Locatio	n		Elevation and I	Datum	.01				
		Southeast, New York		Approx e	l 655 (unknov	vn datum -	SESI Su	rvey)	
MATERIAL SYMBOL	Elev. (ft) +635.0	Sample Description	Depth Scale	Type Type (in) Penetr. Penetr.	Data USC (Blows/ft) 10 20 30 40	(Drilling Fluid Loss	Rema Fluid, Dep s, Drilling F	r ks oth of Casing esistance, e], ∍tc.)
\bigcirc	622.5	Reddish white to black fine-coarse angular GRAVEL (moist) [BOULDERS]	20	55 34 8A 8C 28	5 63	Drilled S-8 at 2 Switche hamme	to 20.0ft 20ft. ed to aut er.	omatic	
	-633.0	Dark gray clayey f-c SAND, some silt (moist) [SC]	22 5-8	зв 34	4				
	+633.5 22 633.0	Dark gray clayey f-c SAND, some silt (moist) [SC] End of boring at 22'	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			Finishe 5/3/202 with so pellets	d drilling 21. Borin il cutting upon cor	at 8:44 A g backfille s and ben npletion.	M on d tonite

||LANGAN.COM/DATA\WPW/DAT2X1400065201/PROJECT DATA_DISCIPLINE\GEOTECHNICAL\GINTLOGS\190065201_ENTERPRISE.GPJ ... 6/7/2021 3:17:58 PM ... Report: Log - LANGAN

LF		og of	Boring	SLB-9	Sheet 1 of 1
Project		P	Project No.		
Location	Proposed Commercial Campus at Fields Corner	E	Elevation and Datur	<u>190065201</u> m	
	Southeast, New York			Approx el 651 (ur	nknown datum - SESI Survey)
Drilling Cor	mpany	D	Date Started	5/0/04	Date Finished
Drilling Equ	Jipment	с	Completion Depth	5/3/21	S/3/21 Rock Depth
	CME 75 ATV-mounted Rig			17 ft	N.E.
Size and T	ype of Bit 3-7/8in Tricone Roller Bit	N	lumber of Samples	s Disturbed	Undisturbed Core
Casing Dia	meter (in) Casing Depth (f	ft) ⊿ V	Vater Level (ft.)	First	Completion 24 HR.
Casing Har	mmerAutomatic Weight (lbs) 140 Drop (in)		Drilling Foreman	<u> </u>	
Sampler	2" OD Split Spoon		iold Engineer	Paul Mullins	
Sampler Ha	ammer Safety Weight (lbs) 140 Drop (in)	30	ielu Eligilieel	Athira Nair	
JL LL				Sample Data	Bomarka
XMBC	tev. Sample Description		Depth by Scale	P-Vi Block (in) - Vi Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Block Blo	vs/ft) (Drilling Fluid, Depth of Casing,
± [∞] +65	51.0			¯ <u>č</u> ¯ č ¯ <u>č</u> <u>10 20</u>	30 40
	roots (dry) [TOPSOIL]	5			5/3/2021.
<u>.</u> 64	49.0			5	
	Brown silty f-c SAND (moist) [SM]				
				€ 5 ⁶ 11	Slight rig chattering
-64	47.0			4	
	Brown clayey f-c SAND, some silt, traced f-c gravel (wet) [passing #200 = 42%	SC]		3	Drilled to 4.0ft. S-3 at 4ft
	wc = 12.3%		5 - 5 - 5		
	45.0 Grayish brown sandy SILT, some clay (wet) [ML]				S-4 at 6ft
· · · ·					
<u>, </u>	43.0 Gravish brown sandy CLAY some silt some f-c gravel (we		- = 8 = + + + + + + + + + + + + + + + + +		Drilled to 8.0ft.
		- •,			S-5 at 8ft
////					
/ / / / 64 / / / / 64		(- = 10 = + + +	18	S_6 at 10ft
	Grayish brown clayey t-c sand, some silt, some t-c gravel ([SC]	(wet)			
				ω 13 28	┥
				24	
63	38.0		<u>+</u> 13 <u>-</u>		Slight rig chattering
	Grayish brown gravelly f-c SAND, some clay, some silt, tra	ace		10	Drilled to 15.0ft.
					43
III	24.0				
-4/7 × 47+03	End of boring at 17'				Finished drilling at 9:39 AM on
					with soil cuttings and bentonite
					pellets upon completion.
			- 19 -		

LA	NBAN		Log	of B	oring		;	SLB	8-10			Sheet 1 of 1
Project				Pro	ject No.							
Leastian	Proposed Commercial Campus	at Fields Corn	er		votion o			1900)6520	1		
Location	Southeast New York			Ele	valion a		atum	Δnnr	ov el f	548 (u	know	wn datum - SESI Survev)
Drilling Compa	any			Da	te Starte	d		лррі		040 (u	Date	Finished
	Craig Geotechnical Drilling Co.,	Inc.						!	5/3/21			5/3/21
Drilling Equipn	nent			Co	mpletior	i Dep	th		47.6		Rock	C Depth
Size and Type	of Bit			+				Distu	urbed		Ur	ndisturbed Core
Casing Diama	3-7/8in Tricone Roller Bit	r	Casing Danth (ft)	NU	mper of	Sam	bies	First		7		
Casing Diame	4		Casing Depth (it)	Wa	ater Leve	el (ft.)		$\overline{\nabla}$		4		$\underline{\Psi}$ - $\underline{\Psi}$ -
Casing Hamm	er Weight (II Automatic	os) 140	Drop (in) 30	Dri	lling For	emar	1					
Sampler	2" OD Split Spoon			Fie	ld Enain	eer	Pa	aul M	lullins			
Sampler Ham	ner Safety Weight (II	^{os)} 140	Drop (in) 30		5		A	thira	Nair			
			•		D			Sar	nple D	ata		Remarks
	Sample	Description			Deptn Scale	Imbei	ype	ecov.	esist L/6in	N-V (Blov	alue vs/ft)	(Drilling Fluid, Depth of Casing,
5 ≥ °° +648.0	Dark brown ailty f a SAND tro	f a graval traca		- 0 -	ź		м М	<u>م م</u>	10 20	30 40	Started Drilling at 9:52 AM on	
	roots (dry) [TOPSOIL]	i-c gravel, trace		_				3			5/3/2021.	
					_ 1 -	- -	SS	12	4	8•		S-1 at 0ft
• • • • • • • • • • • • • • • • • • • •						-			3			
	Brown silty f-c SAND, trace f-	c gravel (moist	t) [SM]		- 2 -				7	1 \		S-2 at 2ft
					- 3 -	2	ss	18	13	25		
2					_				12	/		
	Brown silty f-c SAND some c	av trace f-m	gravel trace	¥	- 4 -	1-			3	/		Drilled to 4ft.
	organics (wet) [SM]	uj,	g		-	- -	LE		3			S-3 at 4ft
	Passing #200 = 48% wc = 13.1%				- 5 -	الم الم	SS	15	4	7		
⊔ 5+642.0	Organic content = 0.7%				- 6 -				4			
	Brown sandy SILT, trace clay,	trace f-m grav	vel (wet) [ML]		- 0				5			S-4 at 6ft
					- 7 -	7	SS	18	6	13		
					-				1			
640.0	Grayish brown silty CLAY, sor	ne f-c sand (w	vet) [CL]		- 8 -	-			5	1/		Drilled to 8ft.
			,			2			3	L/		S-5 at 8ft. Switched to
					- 9 -	ļ	l si		4	^		
638.0					- - 10 -	1			8			S G at 10ft
	Gravish brown silty CLAY, so (wet) [TILL]	me f-c sand, s	some fine gravel			-			7			5-6 at 101
					- 11 -	8-9	SS	12	10	20		
					_	1			9			
					- 12 -	-			-		$\langle $	
					- - - 12 -							
					- 14 -	4						
					-	-						
	Grayish brown clavev f-c SAN	D, some silt. s	ome f-c gravel		_ 15 -		╞		35			Drilled to 15ft.
	(weť) [TILL]		5		-			_	22			S-7 at 15ft.
					- 16 - -	ļ	is II	Ĩ	28		50	U T
631.0					_ 17 -	1			27			Finished drilling at 10.54 AM
	End of boring at 17'				- ''	1						on 5/3/2021. Boring backfilled
					- 18 -	1						with soil cuttings and bentonite
					-	1						
				- 19 -	1							
					- - - 20 -							

LÆ		A/V	Log	of E	Boring		(SLB	-11			Sheet	1	of	2
Project				Pro	oject No										
Location	Proposed Commercia	al Campus at Fields Con	ner	Ele	evation a	and Da	atum	1900	65201						
	Southeast, New York							Appro	ox el 6	44 (ur	know	/n datum - S	ESI S	urvey)	
Drilling Corr	ipany			Da	te Starte	ed		_	10/04		Date	Finished			
Drilling Equi	pment	rilling Co., Inc.		Co	mpletio	n Dep	th	5	0/3/21		Rock	Depth		5/3/21	
	CME 75 ATV-mounte	ed Rig				-			19 ft					N.E.	
Size and Ty	pe of Bit 3 7/8in Tricono Pollor	- Rit		Nu	mber of	Sam	oles	Distu	rbed	Q	Ur	ndisturbed	1	Core	
Casing Dian	neter (in)	Dit	Casing Depth (ft) 4	Wa	ater Lev	el (ft.)		First ▽		8	Co	ompletion	-	24 HR. V	
Casing Ham	imer Automatic	Weight (lbs)	Drop (in) 30	Dri	Iling Fo	remar	1	_		-		<u> </u>			
Sampler	2" OD Split Spoon			Eic	d Engi		Pa	aul Mu	ullins						
Sampler Ha	mmer Safety	Weight (lbs)	Drop (in) 30		an Engli	leer	Δt	thira N	Jair						
	Galety	140		-				Sam	nple Da	ata			_		
ele SYMBOI	v.)	Sample Description			Depth Scale	umber	Type	ecov.	esist L/6in	N-V (Blov	alue vs/ft)	Drilling Fl	≺ema luid, De	ITKS pth of Casi Resistance	ng,
od ≥ " +644	1.0 Dark brown alayout	f a SAND, appearing the	aa raata (dr.)		- 0 -	ź			1° - 0	10 20	30 40	Started D	rilling	at 11.07	AM on
5	[TOPSOIL]	I-C SAIND, SOME SIL, LA	ce roots (dry)		-	-						5/3/2021		at 11.07	
					- 1 ·	S-1A	SS	9	WOH N			S-1 at Oft			
8	Brown silty f-c SAN	ID, trace clay, trace root	s (moist) [SM]			- 	1 E	,	WOH						
021	Brown silty f-c SAN	ID, trace f-c gravel, trace	e roots (moist) [SM]		- 2 ·	-			3	\setminus		S-2 at 2ft			
6/7/2					- 3 -	2	s	8	5	14					
						-0	ľĒ		9						
^Ю Щ УУУ 7 7 640).0				- 4 -	-			8			Drove cas	sina ta	o 4ft Drill	ed to
	DIOWIT Sandy CEAT	, trace 1-c gravel, trace				-			5			4ft.			
					- 5 -	S-3A	S	15	5	0		S-3 at 4ft	-		
	Brown silty f-c SAN	ID, some clay, trace f-m	gravel (wet) [SM]						6						
06520					- 6 -	-			9			S-4 at 6ft			
	7.0				- 7 -	S-4A	ss	2	7	17					
	Brown sandy SIL1,	trace clay (moist) [ML]				1	ΪĒ		10						
	5.0	CLAY. some f-c sand (wet) [CL]	- ¥	8 -	- 3-4B			8 WOH			Drilled to	8ft.		
ALIG	LL = 22, PL = 15, F	PI = 7			-	10	LE		WOH	/		S-5 at 8ft	-		
	WC = 11.9%				- 9 -	- Š	SS	1	2						
	4.0				- 10 -	-			3				~		
	Brown sandy CLAY	', some silt, trace fine gr	avel (wet) [CL]			1			7			S-6 at 10	ft		
					- 11 -	- 9-8-	ss	54	8	25					
					_	-			22						
					- 12 -	+									
					40	-									
						-									
					- - 14 ·	=									
					Ē	-									
629 629 627 629	0.0 Tannish brown siltv	r f-c SAND, some clav, t	race f-c gravel		- 15 -	-			15			Drilled to	15ft.		
	(moist) [TILL]	· · · · · · · , · · · · · · · · , ·			Ē				15			S-7 at 15	ft.		
AT A A A A A A A A A A A A A A A A A A					- 16 ·	ļγ	l si	5	18	3	3+				
S C C C C C C C C C C C C C C C C C C C					- - 17 -	1	LĒ		20						
						1									
					18	-									
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T T					- 19 ·										
					- - - 20 -	-									

L	A		og of Boring			SLE	3-11		Sheet 2 of 2
Project			Project N	0.					
ocation		Proposed Commercial Campus at Fields Corner	Elevation	and D)otum	190	06520	1	
Jucation	1	Southoost Now York	Elevation		alun		rov ol 6	SAA (unknow	(n datum SESI Sunvov)
		Southeast, new fork				Арр		044 (UNKNOW	n dalum - SESI Survey)
OL	Floy		Dont		<u> </u>	Sa	mple D	ata	Remarks
ATEF SYMB	(ft)	Sample Description	Scale	admi	ype	; acov	enetr esist L/6in	(Blows/ft)	(Drilling Fluid, Depth of Casing,
≥" XXXXXX	+624.0		20	_ ź		e e	<u> </u>	10 20 30 40	Drilled to 20ft
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		Gray sandy CLAY, some silt, trace fine gravel (wet) [IILL]		=			8		S-8 at 20ft
M			- 21	18-	SS	9	1/	34 •	
			-	4			11		
41.27	* 622.0	End of boring at 22'	22				10		Finished boring at 11:44 AM
			Ē	-					on 5/3/2021. Boring backfilled
			- 23 E	-					pellets upon completion.
			F of	4					
			F 24	-					
			E 25	1					
			Ē	1					
			- 26	-					
			F	=					
			- 27	-					
			Ē	-					
			E 28	1					
			E 20	1					
			29	=					
			F 30	4					
			Ē	7					
			- 31	-					
				-					
			- 32 E	-					
			- 33	_					
			Ē	-					
			- 34	4					
			-	-					
			- 35	-					
			È	1					
			- 36 E	-					
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			F 37	7					
			- 38	1					
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			- 39	-					
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			E 40	-					
			Ē	-					
			F 41	7					
			E 42	1					
				1					
			- 43	-					
			Ę	=					
			- 44	-					
			È	=					
			Ł 45						

	L	A	NGA	A N		Log	of E	Boring		ę	SLE	3-12			Shee	ət	1	of	2
Γ	Project						Pr	oject No.											
	opotion		Proposed Commercia	al Campus at Fields Co	rner			overtion of			1900	06520	1						
ľ		I	Southeast New York	r				evaliona	lu Da	atum	Δnni	rov el f	347 (ur	knov	vn datu	ım - SE	SI Sur		
h	Drilling	Compa	any	<u>.</u>			Da	ate Starte	d		Лррі		<u>, 1 (u</u>	Date	Finishe	d		vcy)	
			Craig Geotechnical D	Filling Co., Inc.					_			5/6/21					5/	6/21	
	Drilling	=quipr	nent				Co	ompletion	Dep	th		<u> </u>	L	Rock	C Depth				
	Size and	і Туре	of Bit	a Rig					<u></u>		Dist	urbed		U	ndisturb	ed	Co	n.⊏. bre	
	Cooling	Diama	3-7/8in Tricone Roller	r Bit		oing Dopth (ft)		umper of	Sam	bles	Firef		8		omploti	-	24	ПР	-
ľ	Jasing i	Jame	4			14	W	ater Leve	l (ft.)		$ \nabla$	L	6			-	24	<u>I</u>	-
1	Casing I	Hamm	^{er} Automatic	Weight (Ibs) 14	0	Drop (in) 30	Dr	illing For	emar	1									
z	Sample	-	2" OD Split Spoon				Fi	eld Enain	eer	Pa	aul M	lullins							
50	Sample	Ham	^{mer} Safety	Weight (lbs) 14	0	Drop (in) 30				R	odrig	o Ferr	nandez	San	toyo				
5	PLA	_		-				D. II			Sa	mple D	ata		-	R	emarl	(5	
Č L	ATER	Elev.		Sample Description	n			Depth Scale	mber	ype	ecov.	enetr. esist L/6in	N-V (Blov	alue /s/ft)	(Di	rilling Flui	d, Dept	h of Casin] ,
	≥°″	+647.0		f m and there also (n				- o -	Ž		Å,	8 8 8	10 20	30 40	Sta	rted Dri	lling Re		M on
			Brown SILT, some	1-m sand, trace clay (m	noist)	INL			1			4			5/6/	/2021.	iiiiy ai	10.507	
2								- 1 -	<u>-</u>	SS	ø	3	69		S-1	at Oft			
<u>.</u>		+645.0							1			2							
		1040.0	Light brown silty f-n	n SAND, trace coarse	grave	el (moist) [SM]		E 2 -				7	1		S-2	at 2ft			
110								- 3 -	2	ss	15	6	16						
2									100	ΪE	Ì	10							
			Gravish brown siltv	/ f-c SAND. trace clav (mois	t) [SM]		- 4 -	1			15			Dro	ove casir	ng to 4	I.0ft. Dri	led to
r L				, , , (-) [-···]		Ē	- -			16		$\left \right $	4.0	ft. Lot 4ft	•		
Ī.								- 5 -	ц Ч	I S E	18	23		39	0-0	al 411			
		- +641.0					∇					23							
ZCON			Grayish brown clay	ey SILT, some f-m SAI	ND (\	wet) [ML]	_	E	1			14			S-4	at 6ft 1.50 tsf			
0/180								- 7 -	4	ss	4	13	25	!	14				
Š								E :				12							
			Grayish brown clay	ey SILT, trace f-c sand	l (we	t) [ML]		- 8 -	-			8			Dril	led to 8	.0ft. G	rayish b	rown
CAL									μ	s	0	8	16		was S-5	sh. 6 at 8ft			
									S	l° E		8			q _u =	1.00 tsf			
Ц С С		637.0	Gravish brown san	dy SILT trace clay tra	co fir	ne aravel (wet)		<u>+</u> 10 -	_		-	7		\setminus	S-6	at 10ft			
			[TILL]			ie gravei (wei)						13				at fort			
								- 11 -	9-0-	SS	22	26		45	۲.				
									-			30							
								- 13 -	1										
									1										
								- 14 -	1						Dro	ve casir	ng to 1	14.0ft	
	WH.							E .	1										
			Grayish brown to b	rownish gray clayey f-	c SA	ND, trace f-c		F 15 -				54	1		Dril	led to 1	5.0ft. (Grayish	ina
1421	TH)		graver (wet) [TILL]					E 16 -	17	ss	8	45		8	7 S-7	at 15ft		Gratier	y.
	XXXII							Ē	1	Ē		42							
	THI.							- 17 -	-	FE		49							
	XXXX								1										
	IN.							- 18 -	1										
AN.C	M.							- 19 -	1										
ANG	<u>IN</u>							È '	1										
ĮĶ	text H	1627 0						+	4	1									

Project Project No. Location Southeast, New York Southeast, New York Elevation and Datum Southeast, New York Sample Description Sample Description Depth Scale Gray sandy SILT, some clay, trace fine gravel (wet) [TILL] 20 625.0 End of boring at 22' End of boring at 22' 22 End of boring at 22' 23	ey) S
Location Elevel Sample Description Elevel Sample Description N-value (Blowsift) N-value (Blowsift) Remarks (Drilling Fluid, Depth biology) 625.0 Gray sandy SILT, some clay, trace fine gravel (wet) [TILL] 20 21 0 28 34 62 625.0 End of boring at 22' End of boring at 22' 23 1 62 62 1 62	ey) S
Southeast, New York Approx el 647 (unknown datum - SESI Surve Southeast, New York Approx el 647 (unknown datum - SESI Surve Sample Description Flev. (ft) Gray sandy SILT, some clay, trace fine gravel (wet) [TILL] Gray sandy SILT, some clay, trace fine gravel (wet) [TILL] Finished drilling at 22' End of boring at 22' Finished drilling at 5/6/2021. Boring by with soil cuttings ar pellets upon comple	ey) s
Elev. (ft) Sample Description Depth Scale Sample Data (Biows/ft) N-Value (Biows/ft) Remarks (Drilling Fluid, Depth Fluid Loss, Drilling Resis Fluid Loss, Dring Fluid Loss, Drilling Resis Fluid Loss, Drilling Resi	S
Gray sandy SILT, some clay, trace fine gravel (wet) [TILL] 625.0 End of boring at 22' Carter of the gravel (wet) [TILL] Carter of the gravel (wet) [TILL	of Casing, istance, etc.)
23 - 24 - 25 - 26 - 26 - 26 - 26 - 26 - 26 - 26	rayish hattering. 11:55 on
	11:55 on backfilled ind bentoni letion.

	L	A	NL	AN		Log	of B	oring		ę	SLB	8-13		_	ę	Sheet	1	of	1
Γ	Project						Pro	ject No.											
Ļ	ocation	1	Proposed Commercia	al Campus at Field	ds Corner		Fla	vation ar	nd De	atum	1900	06520	1						
ľ	Jocation	I	Southeast New York	< C				valion ai		atum	Annr	ox el f	371 (u	nkno	wn	datum - SI	-SI Su	rvev)	
Τ	Drilling C	Compa	ny				Dat	e Starte	d		, .		<u>, , , , , , , , , , , , , , , , , , , </u>	Dat	te Fi	nished	_01 04	1103/	
			Craig Geotechnical D	Drilling Co., Inc.				1.0			4,	/29/21					4/2	29/21	
ľ	Drilling E	quipm	CME 75 ATV mount				Cor	npletion	Dep	th		17 fi		Roo	CK D	epth			
:	Size and	І Туре	of Bit				NILL	mbor of	Som		Dist	urbed			Undi	isturbed	C	ore	
	Casing [Diamet	3-7/8in Tricone Rolle	er Bit	Ca	sing Depth (ft)	INUI		Sam	Jies	First		7		Com	nletion	- 2	4 HR	-
Ľ	Juonig L	Jiamot	4			4	Wa	ter Leve	l (ft.)		$\underline{\nabla}$		4		Ţ	plotion	- [Ţ	-
(Casing H	lamme	^{er} Automatic	Weight (lbs)	140	Drop (in) 30	Dril	ling Fore	emar	ו									
z	Sampler		2" OD Split Spoon				Fie	ld Engin	eer	Pa	auiiv	iullins							
ANG/	Sampler	Hamn	^{ner} Automatic	Weight (Ibs)	140	Drop (in) 30			-	G	opal	Goswa	ami						
g - L	SIAL	Flev						Denth	5		Sar	nple D	ata	alue		F	Remai	ks	
ort: Lo	AATEF	(ft)		Sample Descr	ription			Scale	nmbe	Type	(in)	enetr resist 3L/6ir	(Blo	ws/ft))	(Drilling Fl Fluid Loss, D	uid, Dep Irilling R	th of Casin esistance,	g, etc.)
Repo	3.10	+671.0	Brown silty f-m SA	ND, some clav, tra	ace roots	(moist) [SM]		_ 0 _	Z		ш.	WOH	10 20	30 4	10	Started D	rilling a	at 12:12 F	PM on
Σ.			,	, ,			Ē		-			WOH				4/29/202 ²	l. ⁻		
3:20 F							Ē	- 1 -	γ	SS IIII	7	1	\mathbb{N}			0-1 4000			
1 3:18							Ē	- 2 -	1			1				C 0 at 0ff			
//202			[SM]	m SAND, some cl	ay, trace f	-c gravel (moist)	Ē		1			5 7				5-2 al 211			
6/7							Ē	- 3 -	S-2	SS	18	8	15						
GPJ		667.0							1			6							
RISE.		1007.0	Gray sandy SILT, s	some clay, trace f-	⋅c gravel (\	wet) [ML]	<u>×</u>	- 4 -				5				Drove cas	ing to	4.0ft. Ha	rd Oft
ERPI							Ē	- 5 -	5	ss	16	9	18			Brown wa	ish.		JIL.
ENT							Ē		0		`	9				S-3 at 4ft			
5201			Brown to gravish b	rown sandy SII T	some clav	(wet) [MI]	Ē	6 -	-			11				S-4 at 6ft			
9006			2.0			, (, []	Ē		4			13							
GS/1							Ē	- 7 -	ပ္	SS	5	14	27						
11LO							Ē	- 8 -				15		'		Delle date	0.064	.	
T/GIV			No Recovery				Ē		1			5				wash.	8.0π. (sray brov	vn
NICA							Ē	- 9 -	S-5	SS	0	6 7	13•			S-5 at 8ft			
Н Н Н Н		661.0					Ē		1			. 8							
GEOI		1001.0	Grayish brown silty	/ CLAY, some f-c	sand, trac	ce f-c gravel		- 10 -	1			6				S-6 at 10	ft		
INE/			(wet) [TILL]					- 11 -	9	ss	5	6	13						
SCIPL							Ē			Ĩ		7	$ \rangle$						
							F	- 12 -	-			0							
DATA							Ē		1					\backslash					
ECT I	<u>IN</u>						F	- 13 -	1					Ν					
ROJ	H.						F	- 14 -	1										
201/F							Ē		1						\mathbb{N}				
0065			Gravish brown san	ndy SILT, trace cla	y, trace f-o	c gravel (wet)	Ē	- 15 -	-			25			N	Drilled to	15.0ft.	Gray bro	wn
2/19	<u>I H</u>		(TILĹ)	,	,	5 ()	Ē				<i>"</i>	25				wash. S-7 at 15	Ft		
DATA	H H						Ę	- 16 -	ျှလု	l Si	Ť	32			9/		-		
WPW	AL.	654.0						- 17 -	1			29				Finished	drilling	at 12·/າว	PM
ATAW			End of boring at 17	7'			Ē									on 4/29/2	021. B	oring	
MND							F	- 18 -								backfilled bentonite	with sellets	oil cutting upon	is and
N.CC							F	40								completio	n.		
NGA							F	- 19 -											
Į							-	- 20 -	-										

	L	4	NGA	A N		Log	of E	Boring			SLE	8-14				Sheet	1	of	2
ſ	Project						Pr	oject No).										
	Location		Proposed Commercia	al Campus at Fields Cor	rner			overtion	and D	otum	190	06520	1						
	LUCALION		Southeast New York					evaliona		atum	Δnn	rov el (877 (unkr		n datum - S		IN/AV	
	Drilling (Compa	any				Da	ate Start	ed		App		511 (ate F	Finished		11 VCy/	
	<u> </u>		Craig Geotechnical D	rilling Co., Inc.								5/5/21					5	5/5/21	
	Drilling E	quipr	nent	d Dia			Co	ompletio	n Dep	oth		00 f		R	ock L	Depth			
	Size and	Туре	of Bit	eu Rig							Dist	urbed			Und	disturbed	(N.⊑. Core	
	Cooing	liomo	3-7/8in Tricone Roller	r Bit		aing Donth (ft)	N	Imper of	r Sam	pies	Fire		8	3	Cor	mplotion	-		-
	Casing L	Jame	4		Ca	sing Depth (it) 4	w	ater Lev	el (ft.))			4	4			-	<u>Т</u>	-
	Casing H	lamm	^{er} Automatic	Weight (lbs) 140)	Drop (in) 30	Dr	illing Fo	remai	n									
z	Sampler		2" OD Split Spoon				Fi	eld Enai	neer	P	aul N	lullins							
191	Sampler	Ham	^{ner} Automatic	Weight (lbs) 140)	Drop (in) 30				R	odrig	o Ferr	nande	ez Sa	anto	yo			
5	JL					•		D		-	Sa	mple D	ata				Rema	rks	
с С С	ATER	Elev. (ft)		Sample Description	ו			Scale		ype	in) v	enetr. esist L/6in	N (B	-Valu lows/	e t)	(Drilling F	luid, Dep	oth of Casir	ig,
Inday	≦″ TTTTT	+677.0	Drown condy Cll T	trace ecores are al tra		acto (moiot)		- o -	Ž		æ -	4 <u>=</u> =	10	20 30	40	Started C		at 11.33	
			[ML]	trace coarse gravel, tra	ice n	ools (moist)		Ē	-			15				5/5/2021		at 11.001	
								- 1	- <u></u> -?-	SS	4	8	20	†		S-1 at Off	i		
0.0		+675.0						Ē	-			3							
		010.0	Brown silty f-m SAN	ND, trace fine gravel (m	ioist)	[SM]		Ē 2	-			4				S-2 at 2ft	1		
10								- 3	25	ss	15	7	19						
2							_					12							
ט. טו	//////	673.0	Light brown clavev	f-c SAND. some silt (w	et) [S	SCI	_ <u>¥</u>	4	1		_	5	+ /			Drove ca	sing to	4.0ft. Dr	illed to
			5 , ,	, (,ι	-1		Ē	1			5				4.0ft. S-3 at 4ft	t -		
								5	Ξ'n	S	3	7	12			q _u =1.20 t	.sf		
5	<u> </u>	671.0						- 6	-			5				0.4.4.05			
2000			Light brown sandy	SILT, trace clay (wet) [N	ML]			Ē	-			6				S-4 at 611	i		
0/18/								- 7		SS	9	6	11						
ככ									-			8							
			Light brown sandy	SILT, trace clay (wet) [N	۸L]			- 8	-			6				Drilled to	8.0ft. I	Light gray	/ish
CAL CAL								- - g	- 4	ss	5	5	11			S-5 at 8ft	asn. t		
								Ē	-loo	ľ		6	$ \rangle$						
		+667.0	Gravish brown sand	dv SILT some clav trad	ce fir	ne gravel (moist))	<u>+</u> 10 ·	-		_	10		\mathbb{N}		S-6 at 10)ft		
5			[TILL]	ay e. <u></u> , come e.ay, aa			,		1.0			17		$ \rangle$					
								- 11 ·	- - - - - - - - - - - - - - 	SS	1	18		35	i I				
								- 12	-			22							
Í								E '-	1										
								- 13	-										
								E	1										
								- 14	-										
0700	HAN H							- 15	1								1		
1900	l de la la la la la la la la la la la la la		Grayish brown sand	dy SILT, some clay, trac	ce fir	ne gravel (moist))		1			21				Drilled to brown wa	15.0ft. ash. R	. Light gra ig Chatte	ayısh ring.
ZA L	HAH.		[==]					- 16		SS	15	18 34			52	S-7 at 15	ift	-	5
								E	1			34 30							
	I A H							- 17 -	+				1						
								- 10	_										
	HH)								-										
NINC								- 19	4										
	I H	0						E	1										

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			of Boring	SLB-14		Sheet	2	of	2
Project			Project No.						
Location	1	Proposed Commercial Campus at Fields Corner	Elevation and D	190065201 Datum					
		Southeast, New York		Approx el 6	77 (unknow	n datum	- SESI Si	urvey)	
) L	_			Sample Da	ata		Rema	rks	
AATER	(ft)	Sample Description	Scale	Type tecov. (in) enetr. scsist	N-Value (Blows/ft)	(Drillin Fluid Los	g Fluid, De	pth of Casing Resistance.	g, etc.)
	+657.0	Grav SILT, some clay, some f-c sand, trace fine gravel (mois)	20 - z		10 20 30 40	Drilled	to 20.0ft	. Grayish	
		[TILL]	γ = = = = _1 = φ			brown S-8 at	wash. Ri 20ft	g Chatteri	ng.
			Γ ²¹] ώ	۵ ۲ 43	04	,			
XXX/1/1	655.0	End of boring at 22'	22			Finish	ed drilling	at 12:16	PM
						on 5/5 with so	/2021. Bo bil cutting	oring back s and ben	filled tonite
			23			pellets	upon coi	mpletion.	
			24 -						
			25 -						
			26 -						
			27 -						
			- 28 -						
			_ 29 _						
			- 31 -						
			33 -						
			- 34 -						
			- 35 -						
			36 -						
			- 38 -						
			40 -						
			41 -						
			42						
			43						
			44 -						
			E <u>45</u> –						

LA	NGAN	Log	of E	Boring		ę	SLB-	-15		Sheet 1 of 1									
Project			Pr	oject No.					-										
Location	Proposed Commercial Campus at Fields Corr	ner		overtion of		tum	19006	65201											
Location	Southoast New York		EI	evalion ar		atum	Appro	w ol 611	(unkng	own datum SESI Survov)									
Drilling Compared	Iny		Da	te Starte	d		Appro	DX EI 044	Dat	te Finished									
	Craig Geotechnical Drilling Co., Inc.						5/1	10/21		5/10/21									
Drilling Equipm	nent		Co	mpletion	Dep	th			Ro	ck Depth									
Size and Type	CME 75 ATV-mounted Rig						Dictur	17 ft		N.E.									
Size and Type of	3-7/8in Tricone Roller Bit		Νι	mber of	Samp	oles	Distui	bed	7										
Casing Diamete	4	Casing Depth (ft) 4	W	ater Leve	l (ft.)		First 		8	Completion 24 HR. <u> Y</u> - <u>Y</u> -									
Casing Hamme	Automatic (Ibs) 140	Drop (in) 30	Dr	Illing Fore	emar														
Sampler	2" OD Split Spoon		Fie	eld Engin	eer	Pa	aui ivil	liins											
Sampler Hamm	ner Automatic Weight (Ibs) 140	Drop (in) 30				Ro	odrigo	Fernanc	lez Sai	ntoyo									
		·					Sam	ple Data											
2 IN SOULT Elev. I IN SOULT Elev. (ft)	Sample Description			Depth Scale	mber	ype	in) cov.	1 Sist	N-Value Blows/ft)) (Drilling Fluid, Depth of Casing,									
± ⁶ +644.0					N	É.	Pa	2 E 10	20 30 4	Fluid Loss, Drilling Resistance, etc.)									
	Light brown silty f-m SAND, trace clay, trac	e fine gravel (moist))	Ē				1		5/10/2021. S-1 at 0ft									
	[]			- 1 -	7	ss	10	1 3•											
				E E		日日		2 \											
642.0	Grav to light brown sandy SILT trace clay (moist) [MI]		2 -	-			4		S-2 at 2ft									
								5	\backslash										
				- 3 -	S-2	SS	12	20	25										
				E E				17											
	Grayish brown silty f-c SAND, trace clay, tra	ace fine gravel		E 4 -			8	8		Drove casing to 4.0ft. Drilled to									
	(moist) [SM]				6			12		4.0ft. Grayish brown wash. S-3 at 4ft									
				- 5 -	မှ	S II	₩ .	17	29										
								14											
	Grayish brown sandy SILT, some clay, trac	e f-c gravel (moist)						16		S-4 at 6ft									
				E 7 -	4	ss	8	16	34										
					0	Ϊ		18											
636.0	Gravish brown silty CLAX some fic sand t	race fine gravel	<u> </u>	- 8 -				22		Drilled to 8 Off Gravish brown									
	(wet) [TILL]	race fille graver						4		wash Rig Chattering.									
				- 9 -	S-5	SS	∞	- ¹⁰ 17	•	S-5 at 8ft $q = 3.00$ tsf									
				E :	1	目		10											
	Grayish brown silty CLAY, some f-c sand,	trace fine gravel		- 10 -			<u> </u> .	19		S-6 at 10ft									
	(wet) [TILL]				6			12		q _u =2.75 tsf									
				- 11 -	က်	S:	≓	13	25 •										
				- 12 -				15											
				' <u> '</u> '	1														
				- 13 -															
					1														
				- 14 -															
				E 3															
	Gravish brown silty CLAY some f-c sand t	race coarse aravel		- 15 -	-			5		Drilled to 15.0ft. Gravish									
	(wet) [TILL]			E		目		8		brown wash. Rig chattering.									
				- 16 -	5	SS	9	8 ^{- 1} 6	•	$q_{\mu}=2.00 \text{ tsf}$									
				E				10											
2000 201.0	End of boring at 17'			F 17 -						Finished drilling at 8:23 AM on									
	-				1					with soil cuttings and bentonite									
					1					pellets upon completion.									
				- 19 -	1														
				Ę	1														
				نــ ₂₀	1														
	_/	4	NL	4 /V		Log	of Bo	oring		;	SLE	8-16		_		Sheet	1	of	1
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Pro	ject						Proj	ect No.											
Loc	ation		Proposed Commercia	al Campus at Field	ds Corne	r	Flev	ation a	nd Da	atum	1900	06520 ⁻	1						
	Jacon		Southeast. New York	ĸ			2101	allon a		atann	App	rox el 6	647 (u	nkn	owr	n datum - SE	SI SI	urvev)	
Dril	ling C	Compa	ny	-			Date	e Starte	d				<u> </u>	Da	te F	inished		. ,,,	
Dril	ling F	auiom	Craig Geotechnical E	Drilling Co., Inc.			Con	plotior	Don	th		5/5/21		Po	ck F	Donth	5	5/5/21	
	iiiig E	quipii	CMF 75 ATV-mount	ed Ria				ipietioi	Dep	uı		16 6 ft				Jeptin		NF	
Siz	e and	Туре	of Bit				Num	ber of	Sam	oles	Dist	urbed	_		Unc	disturbed	C	Core	
Cas	sing D	Diamet	3-7/8in Tricone Rolle	er Bit	C	Casing Depth (ft)					First	t	1	_	Cor	- npletion	2	24 HR.	-
			4	Maight (lba)		4	Wat	er Leve	el (ft.)		$\overline{\Delta}$		4		Ţ	<u> </u>		Ţ	-
Cas		lamme	^{er} Automatic		140	30		ing i oi	emai	' Pa	aul M	lullins							
NA NA			2" OD Split Spoon	Waight (lba)		Drop (ip)	Field	d Engin	eer										
Sar V	npler	Hamn	ner Automatic	Weight (IDS)	140	30			1	R	odrig	o Fern	andez	z Sa	nto	уо			
- og - l	BOL	Elev.		Sample Deser	intion			Depth	er	a	2 2	ipie D	ala N-\	/alue		R	ema	rks	
Dort: L	SYN	(ft)		Sample Desci	iption			Scale	Numb	Typ	Reco (in)	Pene resis BL/6	(Blo	ws/ft	:) 40	(Drilling Flu Fluid Loss, Dr	id, Der illing F	oth of Casi Resistance	ng, , etc.)
a li		047.0	Grayish brown f-c	SAND, some silt,	trace f-c	gravel (moist)	E	- 0 -		TE		4			40	Started Dr	lling	at 5/5/20)21
M			[SM]				E	- 1 -	5	s	o	10	18•			10.41 AIVI.	3-17		
18:31							Ē	•	- N	ľΕ		8							
513	14.1	645.0	Grav to mottled ora	angish brown sang	v SILT. 1	trace clav (moist)	·	- 2 -	-			12 25				S-2 at 2ft			
8/7/20			[ML]	0		,	Ē		2			11							
							F	- 3 -	ا م	l si	Ę	8	19						
ы Ы	11	643.0	Light brown ailty f	m SAND (wat) [SN	41		_¥	- 4 -				7				Drove casi	na to	4.0ft D	rilled to
PRIS			Light brown sity 1-i	IN SAND (wel) [Sh	vij		E			ΙE		4				4.0ft.	ng to	4.01t. D	
							Ē	- 5 -	ŝ	SS	9	2 4	†			S-3 at 4ft			
		+641.0					E	- 6 -				4							
0652			Gray to brown SIL ⁻	T, some f-m sand,	some cl	ay (wet) [ML]	E	0				3				S-4 at 6ft			
S\190							E	- 7 -	S-4	ss	15	4 7	11						
Ö							E		-			, 5							
	//	-639.0	Light brown CLAY,	, some f-c sand, s	ome silt ((wet) [CL]	• — E	- 8 -		ΙĒ		11				Drilled to 8	.Oft.		
	///						E	- 9 -	5	ss	16	10	16			q _u =2.00 tst	F		
NHO!							F			Ē		6							
			Light brown sandy	CLAY, trace coars	se gravel	(wet) [CL]	F	- 10 -	-	E		3				S-6 at 10ft			
	///				-		F	11	φ	s		4	_/						
	///						Ē	- 11 -	ۍ ا	is E	9	3	1						
SIC	///						E	- 12 -		E	-	6							
ATA							E												
	///						Ē	- 13 -											
	///						E	- 14 -											
	///						Ē	14											
00000		632.0	Gravish brown san	ndv SILT some cla	av trace t	fine gravel (wet)		- 15 -	-	╞	-	12				Drilled to 1	5.0ft	. Light gr	ayish
2/19([TILL]	,,	.,,		Ē		5	ss	12	14			\backslash	brown was	h.	0 0	2
DATA	Y S						F	- 16 -		ΪĒ		28		42	2				
MAN		630.0					F	- 17 -	T							Finished d	rillnin 1 Br	g at 11:	15 AM kfilled
ATAW			End of boring at 17	7'			F		-							with soil cu	itting	s and be	ntonite
MND/							F	- 18 -								penets upo	II COI	inpletion.	
N.CC							F	. 10											
ANGA							Ē	19 -											
]							F	- 20 -	-										

L	A	NL	A/V		Log	of E	Boring		;	SLE	8-17				Sheet	1	of	1
Project		D				Pro	oject No.			10-								
Locatio	า	Proposed Commercia	al Campus at Field	ds Corner	•	Ele	evation a	nd Da	atum	1900)6520	1						
		Southeast, New York	٢							Арр	ox el	657 <u>(</u>	unkr	nowr	n datum - Sl	ESI Su	rvey)	
Drilling	Compa					Da	te Starte	d					D	ate F	inished			
Drilling	Equipn	Craig Geotechnical L	Drilling Co., Inc.			Co	mpletior	Dep	th	4	/22/21		R	ock [Depth	4/:	22/21	
		CME 75 ATV-mounte	ed Rig								17 f	t			-		N.E.	
Size an	d Type	of Bit 3-7/8in Tricone Rolle	er Bit			Nu	mber of	Sam	ples	Dist	urbed	7	,	Uno	disturbed	-	Core	_
Casing	Diame	ter (in) 4		C	asing Depth (ft) 4	Wa	ater Leve	el (ft.)		First		10)	Cor	mpletion	- 2	4 HR. ¥	-
Casing	Hamm	^{er} Automatic	Weight (Ibs)	140	Drop (in) 30	Dri	Illing For	emar	ו		hulling							
Sample	r	2" OD Split Spoon				Fie	eld Engin	eer			IUIIIIIS							
Sample	r Hamr	^{ner} Safety	Weight (Ibs)	140	Drop (in) 30				G	opal	Gosw	ami						
irt: Log - L AATERIAL SYMBOL	Elev. (ft)		Sample Descr	ription			Depth Scale	umber	Type	tecov. (in)	enetr. esist ßL/6in	N- (BI	Valu ows/	e ft)	F (Drilling Fl Fluid Loss, D	Rema uid, Dep Drilling R	r ks oth of Casir	ig, etc.)
	+657.0	Brown silty CLAY.	some f-c sand. tra	ace roots	(moist) [CL]		_ 0 -	z			<u>а</u> – ш	10 2	20 30	40	Started dr	illing a	it 8:19 A	VI on
		, - ,	,		()[-]		- - - 1 -	S-1-S	SS	16	2 4	6•			4/22/202 S-1 at 0ft q _u =.75 tsf	l. ⁻		
	+ 655.0						- 2 -	-			4				0.0 -+ 0#			
		Brown sandy CLA	r, some silt (moist	t) [CL]				1			7	$ \rangle$			5-2 al 211			
							- 3 -	S-2	SS	20	7	14						
								-			7	$ \rangle$						
		Brown sandy CLA	Y, some silt (moist	t) [CL]			- 4 -	-			9				Drove cas 4 Oft Ligh	sing to	4.0ft. Dr m wash	illed to
							- 5 -	8-3	ss	12	10	23			S-3 at 4ft			
							-				13 16							
		Brown sandy CLA	Y, some silt, trace	fine grav	el (moist) [CL]		- 6 -				12				S-4 at 6ft	.¢		
							- 7 -	4	ss	2	11	22			q _u −2.75 te	51		
								- °			11							
	+649.0	Grayish brown silty	y CLAY, trace f-m	sand (mo	pist) [CL]		- 8 -				3	+ /			Drilled to	8.0ft. (Greenish	
				·	,			-	s	0	4				brown wa S-5 at 8ft	sh.		
							- 9 -	ۍ ا	s	2	7							
		Gravish brown CL	AV some silt som	ne f-c san	d trace fine	∇	- 10 -			-	9				S-6 at 10	ft		
		gravel (wet) [CL]					-	- -			3				q _u =.75 tsf	•		
							- 11 -	- - -	SS	16	8	11						
							- - 12 -	-			8							
								1				$ \rangle$						
							- 13 -											
							- 14 -						$ \rangle $					
	6 42.0	Craviah brown Cl		come el-	v trace f e are:		- - 15 -		┝┍		44				Drilled to	15 Oft	Brownie	h
		(wet) [TILL]	r, some r-c sand,		iy, irace i-c grave	CI					11 16				green was	sh.	Di Ownite	
							- 16 -	5	SS	12	18		34	•	S-7 at 15	τ		
	€ 2+640.0						- - 17 -				18				_			
A/W		End of boring at 17	7'			_									+inished (4/22/2021	arılling I. Bori	at 8:48 / ng backfi	AM on lled
MILIA							- 18 -								with soil o	utting:	and bei	ntonite
															poners up			
NGA							- 19 -											
							E 20 -	-										

	L	A	NL /	4 <i>N</i>		Log	of B	Boring		ę	SLB	-18			Sheet	1	of	1
Pi	roject						Pro	oject No.										
	pontin		Proposed Commerci	al Campus at Field	ds Corner		EI.	votion o		atum	1900	6520	1					
	JCallo	1	Southoast Now York				Ele	valion a		atum	Appr		S59 (aknow	vn datum SE		nov	
D	rilling	Compa	iny	N			Da	te Starte	d		Аррі		556 (u	Date	Finished	31 Su	rvey)	
			Craig Geotechnical [Drilling Co., Inc.							Ę	5/5/21				5	/5/21	
D	rilling	Equipm	nent				Co	mpletior	Dep	th				Rock	Depth			
Si	ize an	d Type	CME 75 ATV-mount	ed Rig							Distu	17 ft urbed			ndisturbed		N.E.	
Ĺ	20 4.1	a . jpo	3-7/8in Tricone Rolle	er Bit			Nu	mber of	Sam	ples	2.00		7					-
C	asing	Diamet	er (in) 4	Maight (lba)	Ca	asing Depth (ft) 4	Wa	ater Leve	el (ft.)		First <u> </u>		2		ompletion	. 2	4 HR. <u>¥</u>	-
C	asing	Hamm	^{er} Automatic	weight (ibs)	140	30 Drop (in)		liing For	emar	י ס	out M	ulline						
z Sa	ample	r	2" OD Split Spoon				Fie	ld Engin	eer	ГС		uiiiiis						
ĺ9NA S	ample	r Hamr	^{ner} Automatic	Weight (lbs)	140	Drop (in) 30				R	odrigo	o Ferr	andez	Sant	oyo			
g-L	OL	Flov						Denth	5		San	nple D	ata	alua	- R	emar	ks	
rt: Lo	ATEF SYMB	(ft)		Sample Descr	ription			Scale	nmbe	Type	(in)	enetr esist iL/6ir	(Blov	ws/ft)	(Drilling Flu	iid, Dep rilling R	th of Casin esistance	g, etc.)
Repo	2	+658.0	Dark brown f-c SA	ND some silt_trac	ce f-c aray	vel (moist) [SM]	_	_ 0 _	z	· - E	œ.	<u>л – п</u>	10 20	30 40	Started Dr	illina a	at 12:26	PM on
Σ			Dark brown 1-c OA		se i-e gia			-				4 7			5/5/2021.			
38 P								_ 1 -	ပ်	SS	9	30		37,•	5-1 at 0ft			
3:18:		+656.0					∇					4						
2021			Light brown sandy	CLAY, some silt (wet) [CL]			_ 2 _	-			4	/	´	S-2 at 2ft			
119								- 3 -	2	ss	6	7	12					
a								_		ľΕ		5						
Э.Э.	HH	+654.0	Light brown silty C	AY trace f-c san	d trace fi	ine gravel (wet)		- 4 -	_			2			Drove cas	na to	4.0ft. Dri	lled to
SIRI ([CL]					-	_			2 3			4.0ft. Light	t brow	n wash.	
Ë								_ 5 -	Ч.	SS	20	5	8		S-3 at 4ft q_=1.75 ts	f		
								_				7			NG			
6520			Light brown silty C	LAY, some f-c sar	nd, trace f	ine gravel (wet)		- 6 -	-			7			S-4 at 6ft	f		
000			[CL]					_ 7 -	4	ss	5	7	15		q _u =2.00 ts			
ogs									-00	ΪE	Ì	8						
F	ЩЦ.	+650.0		SILT some f-c sa	and trace	fine gravel (wet)		8 -	_			7			Drilled to 8	3.0ft. L	iaht brou	vn
AL/G			[ML]									4 4			wash.		5	
INIC								- 9 -	က်	ss	16	6	10		5-5 at 81			
ĒC								- 10				8						
GЕO			Light brown clayey	SILT, some f-c sa	and, trace	fine gravel (wet)		_ 10 _				4	$ \rangle$		S-6 at 10f	t		
-INE/								- 11 -	9	ss	15	11	23					
SCIPL								_				12						
								12 -	-			13						
DATA									1									
CTL								- 13 -	1									
ROJE								- 1/ -	1									
01/PI								- 14	1									
0652	z XXX	643.0	Gravish brown ala					15 -	1	┝┍	$\left \right $	0			Drilled to 1	5 Oft		
2/190	H.		(wet) [TILL]	yey oi∟i, some i-c	ว รสมน แช	ce inte graver		_				ъ В			S-7 at 15f	5.010		
ATA	Ŋ,		_					- 16 -	S-7	SS	50	12	18•					
	H)	2+641 0						-	1			15						
AWF			End of boring at 17	7'				- 1/ -	1						Finished d	rilling	at 12:57	PM
DAT								- 18 -	1						with soil c	uttings	and ber	itonite
COM									1						pellets upo	on con	npletion.	
GAN								19	1									
LANC									1									
<u>-</u>		1						- 20 -	1	1					1			

					Log	of E	Boring			SLE	3-19		_		Sheet	1	of	2
Project						Pr	oject N	0.										
Location	1	Proposed Commerci	al Campus at Fiel	ds Corn	er	El	evation	and D	atum	<u>190</u> າ	06520	1						
		Southeast, New York	k							App	rox el (662 (u	ınkn	own	n datum - SE	SI SI	ırvey)	
Drilling (Compa	any				Da	ate Star	ted					Da	te F	inished			
Drilling	Equipr	Craig Geotechnical [Drilling Co., Inc.				molati		oth		5/6/21		B	ok F	Vonth	5	5/6/21	
Drilling	=quipr	CME 75 ATV mount					ompietio	on De	วเท		21 Q f	+	RC	OCK L	Jepin			
Size and	і Туре	of Bit	eu Rig					4.0		Dist	urbed	ι		Und	listurbed	0	Core	
On all and I	<u></u>	3-7/8in Tricone Rolle	er Bit			N	umper o	of Sam	pies	Fire		7		0				-
Casing L	Jiame	4			Casing Depth (it)	W	ater Le	vel (ft.)		ί -	4			npietion	. 2	ч нк. Т	2.6
Casing I	lamm	er Automatic	Weight (lbs)	140	Drop (in) 30	Dr	illing F	orema	n		-						<u> </u>	-
Sampler	-	2" OD Split Spoon		110		1			P	Paul N	/lullins							
Sampler	Ham	ner Outsta	Weight (lbs)	4.40	Drop (in)	1-1	eld Eng	ineer	_				_					
		Safety		140					F	<u>codriç</u> Sa	<u>go⊢err</u> mple D	nande:)ata	z 5a	into	/0			
ERIAI ABOL	Elev.		Sample Desc	rintion			Dept	h ja	Φ	,	in st.	N-\	/alue	•	R (Drilling Flu	ema	rks	
SYN	(ft)		Sample Desc	Πριοπ			Scale	a Im	Typ	(in c	Pene resi BL/6	(Blo	ws/f	t) 40	Fluid Loss, Di	illing F	Resistance	ing, e, etc.)
· [·] ·	+002.0	Grayish brown silt	ty f-m SAND, trac	e clay, tr	ace roots (wet)		- 0	+-	╡╞	-	2	10 20	30	40	Started dri	lling a	at 12:21	PM on
		[SM]	-	-			Ē,				3				5/6/2021. S-1 at 0ft			
								Ξ'n	l s	Ĩ	3	⁶ •			Oracon			
							E o	_			4							
		Light brown f-m SA	AND, trace silt, tra	ace roots	s (moist) [SM]	V	,	4		=	4		\backslash		S-2 at 2ft			
	1						Ë 3	12	ss	l o	19		38	,				
							Ē	10	ľ		19		7	^				
	658.0	Crovish brown Cl	AV come f m cor	d como	ailt trace coerce	$\overline{\nabla}$	″ <u>−</u> 4	-		_	8		Λ		Drove casi	na to	4 0ft Γ	rilled to
		gravel (wet) [CL]	AT, SOME I-M San	iu, some			Ę	=			4	/	′		4.0ft.	ng to	4.0n. E	niiou to
							- 5		SS	3	7	12			S-3 at 4ft			
							È	=			15	$ \rangle$						
		Grayish brown sar	ndy CLAY, some s	silt, trace	f-c gravel (wet)		- 6	-		-	6	1	\setminus		S-4 at 6ft			
		[CL]	-				E				18							
							E 7	Ļγ	ŝ	÷	15		33					
	+654.0						Ë.	_			15							
		POSSIBLE BOULI	DER				Ē	+										
\bigcap							E 9	-										
\bigcirc								=										
	652.0	Gravish brown sar	ndv SILT trace fin	e aravel	trace clay (wet)		[10	+	╡╴	_	0				Drilled to 1	0.0ft	Gravis	h
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		[TILL]		e graver			E	=			18				brown was	h. R	ig Chatt	ering.
							- 11	15	SS	20	20		38	┥	2-foot-thic	k obs	approxir truction	nately
							Ē	-			23				S-5 at 10f			
							E 12	-										
							-	-										
UM,							E 13	Ξ.										
HH.							- 14	1										
<u>M</u>							Ē	=										
HH.		Gravish brown SI	T some f a sand	somo f	c gravel trace of	N/	- 15	1	┥┍	_	20	$\left \right $			Drilled to 1	5 0ft	Gravis	h
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		(wet) [TILL]	. 1, SUME I-C Sallu,	, some i	o graver, trace cla	y	F	=			33				brown was	h. Ri	g chatte	ring.
JA H		-					- 16		SS	3	40			96	S-6 at 15f			
							Ē				50							
HALL.							E 17	1	┼╴			1						
							-	-										
IM,							F ¹⁸											
ŊŊ.							E 10	_										
SH H							+ 19	-										
HAL	1						F	1										

L	A	N	6	A	N

			of Boring		SLB	-19			Shee	et	2	of	2
Project			Project No.										
Location		Proposed Commercial Campus at Fields Corner	Elevation and I	Datum	<u>1900 ו</u>	65201							
		Southeast, New York			Appr	ox el 6	62 (unl	knov	vn datu	ım - S	SESI Su	rvey)	
)L JL	E 1		Danth		San	nple Da	ata		-		Rema	rks	
MATER SYMB	(ft)	Sample Description	Scale	Type	Recov.	^{>} enetr resist BL/6in	N-Va (Blow	lue s/ft)	(D Fluid	rilling F Loss,	Fluid, Dep Drilling R	th of Casing esistance, e	g, etc.)
	+642.0	Gray clayey SILT, some f-c sand (wet) [TILL]	20 - 2	_		38	10 20 3	80 40	Dril	led to	o 20.0ft.	Grayish	
			21 - 1	ss ss	6	42		92	bro S-7	wn w ′at 20	ash. Oft		
	640.2					50 50/3			-				
£04 4 X.7•2.4.4	F040.2	End of boring at 21.8'	22						Fin 5/6	ished /2021	l drilling I. Instal	at 1:09 P ed 2" dia	'M on meter
									PV	C tem	nporary	observation	on
			23						and	10ft	riser.		
			24 -										
			_ 26 _										
			27										
			- 28 -										
			- 30 -										
			- 31 -										
			- 32 -										
			- 33 -										
			- 34 -										
			- 35 -										
			- 36 -										
			- 37 -										
			- 39 -										
			<u></u> 41										
			43										
			<u> </u>						1				

LANG	AN	Log	of Boring	:	SLB-2	0	_	Sheet	1	of	2
Project		-	Project No.				-				
Proposed Comme	rcial Campus at Fields Corn	ier	Elevation and D	atum	190065	201					
Southeast, New Y	ork		Elovation and B	atam	Approx	el 639 (u	nknow	/n datum - SE	SI Surve	ev)	
Drilling Company			Date Started				Date	Finished			
Craig Geotechnica	al Drilling Co., Inc.		Completion Der	oth	4/23	/21	Rock	Denth	4/23/	21	
CME 75 ATV-mou	inted Rig		Completion Dep	5011	2	7 ft	I YOOK	Deptit	N	.E.	
Size and Type of Bit			Number of Sam	ples	Disturb	ed	Ur	ndisturbed	Core	3	
Casing Diameter (in)		Casing Depth (ft) 4	Water Level (ft.)	First ☑	20	Co	- ompletion -	24 H	IR.	-
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30	Drilling Forema	n	_			50 0			
Z Sampler 2" OD Split Spoon		ŀ	Field Engineer	Pa	aul Mull	ns					
Sampler Hammer Safety	Weight (lbs) 140	Drop (in) 30		R	odrigo F	ernandez	Santo	оуо			
			Donth b		Sampl	e Data		R	emarks		
	Sample Description		Scale	Type	(in) enetr	uig) (Blo	alue ws/ft)	(Drilling Flui Fluid Loss, Dri	d, Depth c	of Casing	, tc.)
ଣୁ ² +639.0 ଅତିତ୍ୟ ତିମavish brown s	ilty f-c SAND_trace fine gra	vel trace clav		. 		10 20	30 40	Started Dri	ling at 4	1/23/202	21
≥ (moist) [SM]		ivel, il dee eldy				2		9:03 AM. S	-1 at 0f	t	
497				SS	6	8•					
			- 2 -			8		0.0.4.05			
Grayish brown s	ilty f-c SAND, trace f-c grav	e, trace clayl			7			S-2 at 21t			
			- 3 - 8	SS	₩ 20	⁵ 15•					
						10					
Grayish brown s	andy SILT, some clay (mois	st) [ML]			6			Drove casi	ng to 4.()ft. Drill	ed to
			5 - 6	s	2	6		S-3 at 4ft	STI DIOW	/n wasn	1.
					8						
5633.0	ilty f-c SAND. trace clay. tra				6	14		S-4 at 6ft			
(moist) [SM]		Ū.				12					
			<u> </u>	l Si	15	27	İ				
						18		Drillod to 8	Oft Crr	wich hr	
	SILT, Some clay, some 1-c S	AND (moist) [IVIL]			7			wash.	UIL GIA	Iyisii bi	UWIT
			- 9 - S	SS	12 12	° 20•		S-5 at 8ft			
						19	$\langle $	iu iu			
Grayish brown s	ilty CLAY, some f-c sand (n	noist) [CL]			15			S-6 at 10ft a.=4.00 tsf			
			- 11 - 0	ss	2	19	36	10			
d Os			E I			19					
			- 12								
			- 14 -								
Gray silty CLAY	, some f-c sand, trace f-c gr	avel (moist) [CL]			4			Drilled to 1	5.0ft. Gr	rayish	
				ss	4	7		S-7 at 15ft	1.		
					8			q _u =3.50 tsf			
			- 17 -	E							
ANC											
9NA I											
			<u></u> 20								

L	_/	4	Λ	6	A	Ν	ľ
							_

			of Boring	SLB-2	20	Sheet	2	of	2
Project			Project No.						
Location	<u>ו</u>	Proposed Commercial Campus at Fields Corner	Elevation and	19006 Datum	5201				
		Southeast. New York		Approx	x el 639 (unknov	vn datum -	SESI Su	rvev)	
	1	,		Samo	ole Data				
ERIAL	Elev.	Sample Description	Depth	etr. v	to E N-Value	(Drilling	Remar	'ks	-
MAT SYI	(π) +619.0		Scale	Pen (in Type		Fluid Loss	, Drilling R	esistance, e	etc.)
		Gray silty CLAY, some f-c sand (wet) [CL]		4		Drilled t	o 20.0ft. vash Ric	Grayish chatterir	20
			$=$ 21 $=$ $\frac{1}{2}$	9 <u>8</u> 8	7 17 •	S-8 at 2	20ft	Jonation	ig.
					0	q _u =3.50	tsf		
			22 +						
			- 23 -						
			24						
		Grav stiff silty CLAY, some f-c sand, trace f-c gravel (wet) [CL]	25		<u> </u>	Drilled t	o 25.0ft.	Grayish	
				- ا ا ا	6	brown v	vash. 25ft		
			- ²⁶ - 0	ין ^א ^ו אין אי	0	0 0 u 2			
	- 		27		12	Finisho	d drilling	at 0.52 A	Mon
		End of boring at 27'				4/23/20	21. Borir	ng backfill	ied
			28 -			pellets u	l cuttings Jpon con	pletion.	tonite
			20						
			- 30 -						
1									
			- 31 -						
			- 32 -						
			- 33 -						
			- 35 -						
			- 37 -						
			- 38 -						
			- 40 -						
			42 -						
			43						
			<u> </u>						

|\LANGAN.COMDATA\WPWDAT22\190065201\PROJECT DATA_DISCIPLINE\GEOTECHNICAL\GINTLOGS\190065201_ENTERPRISE.GPJ ... 6/7/2021 3:18:46 PM ... Report: Log - LANGAN

LA		og o	of B	oring			SLE	8-21			:	Sheet 1	of	2
Project			Pro	ject No.										
Location	Proposed Commercial Campus at Fields Corner		Elo	vation a	ad D	otum	1900	06520	1					
LUCATION	Southoost New York			valion a	lu D	atum	٨٥٥	ov ol (242 (line		dotum SES		
Drilling Comp	bany		Dat	te Starte	d		Аррі		542 (ui	Dat	te F	inished	Survey)	
	Craig Geotechnical Drilling Co., Inc.						4	/22/21					4/22/21	
Drilling Equip	ment		Coi	mpletion	Dep	th				Ro	ck D	Depth		
	CME 75 ATV-mounted Rig							27 ft	t				N.E.	
Size and Typ	e of Bit 3-7/8in Tricone Roller Bit		Nui	mber of	Sam	ples	Dist	urbed	q		Und	listurbed	Core	_
Casing Diam	eter (in) Casing Depth (i	t)	Wa	tor Love	. /f+)		First	:			Con	npletion	24 HR.	
	4 Waight (lba) Dran (in)	4	VV a		(IL)		ΙŢ		10		Ţ	-	<u> </u>	-
Jasing Hamr	Automatic Weight (ibs) 140	0		ing For	emai	י ח		Aullina						
Sampler	2" OD Split Spoon		Fie	ld Engin	eer		auiiv	iuiiiris						
Sampler Harr	nmer Safety Weight (lbs) 140 Drop (in)	0		0		G	opal	Goswa	ami					
L L							Sar	nple D	ata			De	morko	
Elev	Sample Description			Depth Scale	nber	be	лос С	sist /6in	N-V (Bloy	alue vs/ft)		(Drilling Fluid,	, Depth of Ca	sing,
¥642.	0			00010	Nur N	1	i	Per BL	10 20	30 4	10	Fluid Loss, Drilli	ng Resistanc	e, etc.)
	Brown silty f-m SAND, some clay, trace roots (moist) [SM]			- 0 -		TE		2				Started Drilli	ng at 11:1	2 AM on
			E	_ 1 _	-	s	0	4				4/22/2021. S-1 at 0ft		
					Ś	S	2	6						
			Ē	- 2 -				8						
	Brown silty f-c SAND, trace clay, trace f-c gravel (moist) [S	M]	ŀ		1	ΙE		7	$ \rangle$			S-2 at 21t		
				- 3 -	2	ss	10	10	21					
			Ē		- "	ΪE	Ì	11						
638.	0 Provinish grou silty CLAV, some fire and trace fire group			- 4 -	1			10	/			Drove casin	n to 4.0ft	Drilled to
	(moist) [CL]	1			1			8				4.0ft. Gray g	green wash	1.
			Ē	- 5 -	5.3	ss	16	6	12			S-3 at 4ft		
					1			6						
	Brownish gray silty CLAY trace f-m sand (moist) [CL]		Ē	- 6 -	-	HE		9				S-4 at 6ft		
	passing #200 = 60.6%		ŀ		1_	ΙE		+ 6						
	wc = 14.7%			- 7 -	8-4	SS	4	6	12					
					1			10						
	Brownish gray silty CLAY, some f-m sand, trace fine grave	i	Ē	- 8 -	-	TE		7	$1 \mid \mathbb{N}$			Drilled to 8.0)ft. Grayisł	n brown
	(moist) [CL]			-	- LQ	l a	。	9				wash. S-5 at 8ft		
			Ē	_ 9 _	- 0	ls I	7	15	24			o o acon		
	0		\bigtriangledown	- 10 -				15						
	Grayish brown silty f-m SAND, some clay, trace f-c gravel			- 10	1	ΙE		15				Drilled to 10 wash	.0ft. Gray	green
	(wer) [SM]		Ē	- 11 -	φ	s	4	10	26			S-6 at 10ft		
			E		S	ľE		16						
			ŀ	- 12 -	1	ĻΕ		23						
					-									
				- 13 -	1	1								
					1	1								
				- 14 -	-					1				
			ł		1	1					\mathbb{N}			
	Gray sandy CLAY, some silt, trace f-c gravel (wet) [TILL]			- 15 -	+	╞		19			$\left \right\rangle \right $	Drilled to 15	.0ft. Gray	green
			Ē		~			33				wash. S-7 at 15ft		
			E	- 16 -	γ	SS E	14	15		4	8	q _u =4.00 tsf		
			F		1	ΙĘ		20						
HALL -			Ē	- 1/ -					1					
			ł	- - - 19 -	1									
I KA			F	10	1	1								
A A A A A A A A A A A A A A A A A A A			Ē	- 19 -	1									
HA .			ŀ		1									
HAMAN .			F		4	1								

			of Boring			SLE	3-21			Sheet 2 of
Ject		Proposed Commercial Campus at Fields Corner	Project No.			190	06520 ⁻	l		
cation		Southeast, New York	Elevation a	nd Da	atum	App	rox el 6	42 (un	know	vn datum - SESI Survey)
	Elev. (ft)	Sample Description	Depth	mber	be	Sa ., oo	netr. sist /6in	ata N-Va (Blow	lue s/ft)	Remarks (Drilling Fluid, Depth of Casing,
	622.0	Gray silty CLAY, some f-c sand, trace f-c gravel (wet) [TILL]	20 -	NUI 8-1	SS IIII	2 Re	BL Pe	10 20	30 40	Fluid Loss, Drilling Resistance, etc.) Drilled to 20.0ft. Gray wash. S-8 at 20ft
	620.8	POSSIBLE BOULDER	21 -	<i>°</i>	Ë	`	8 _50/3		50/3	q _u =4.50 tsf
\mathbf{Z}			- 22 -							
	619.0.		23 -							Broke through boulder.
			- 24 -							
		Gray CLAY, some silt, some f-c sand, trace f-c gravel (wet) [TILL]	- 25 -				9			Drilled to 25.0ft. Gray wash. S-9 at 25ft
	215.0		- 26 -	S-O	SS	-	12 24	28		
<u></u>		End of boring at 27'	27 -							Finished drilling at 12:04 PM on 4/22/2021. Boring backfilled with soil cuttings a
			- 20 -							bentonite pellets upon completion.
			- 30 -							
			- 31 -							
			- 32 -							
			- 33 -							
			- 34 -							
			- 35 -							
			- 36 -							
			- 37 -							
			- 38 -							
			- 39 -							
			- 40 -							
			- 41 -							
			- 44 -	1	1					

LA	NGA	4N		Lo	g of E	Boring		ę	SLB	-22			Sheet	1	of	2
Project					Pr	oject No										
Location	Proposed Commercia	al Campus at Field	ls Corner			ovation	and Dr	atum	1900	65201	1					
Location	Southeast New York	¢						atum	Annr	ox el 6	43 (ur	knov	wn datum - S	SESUS	urvev)	
Drilling Com	bany	<u> </u>			Da	ate Starte	ed		7 ippi		-10 (ui	Date	Finished		urvey/	
D.W. F.	Craig Geotechnical D	Drilling Co., Inc.							4/	22/21		<u> </u>	- D - //	4/	/22/21	
Drilling Equip	CME 75 ATV mount	od Pig			Co	ompletio	n Dep	th		20 1 ft		Rock	Depth			
Size and Typ	e of Bit	survig			N	umbor of	Som		Distu	irbed		U	ndisturbed		Core	
Casing Diam	3-7/8in Tricone Rolle	r Bit		asing Depth (ft)			Sam	pies	Firet		8		ompletion	-	24 HR	1
Casing Diam	4			44	W	ater Lev	el (ft.)		$\underline{\nabla}$		6		<u>V</u>	- [<u> </u>	-
Casing Ham	^{ner} Automatic	Weight (Ibs)	140	Drop (in) 30	Dr	illing Fo	remar	ו								
Sampler	2" OD Split Spoon				Fie	eld Engir	neer	Pa	aul M	ullins						
Sampler Han	^{nmer} Safety	Weight (Ibs)	140	Drop (in) 30		_		G	opal (Goswa	ami					
	,				min)	Depth	-	1	San	nple Da	ata	alua	_	Rema	arks	
(ft) SYMB	·	Sample Descript	tion		ring (Scale	nmbe	Type	(in)	enetr esist tL/6in	(Blov	vs/ft)	(Drilling F	luid, De	pth of Casin Resistance	ng, etc.)
ag ² +643	0 Greenish brown sil	Ity f-c SAND some	e clav, tra	re fine	ő	<u> </u>	Ž	. E		2 - m	10 20	30 40	Started o	Irilling	at 9:17 Al	M on
≥	gravel (moist) [SM]]	5 0idy, tre			E	1_			2			4/22/202	:1.		
22 P						- 1 ·	ļ	SS	16	2 4	1		5-1 at 01	ι		
∞ 	o					- 	-			10	\setminus					
	Greenish brown cla	ayey f-c SAND, soi l	me silt, ti	ace fine		2	-	ΙE		15			S-2 at 21	t		
	graver (molecy [00]					- 3 -	8-7	ss	50	9	17					
						E	-			8						
	⁰	Indy CLAY, some s	silt, trace	fine gravel	1	- 4 -	-			7			Drilled to	4.0ft.	Drove cas	sing to
	(moist) [CL]						- 	s	~	7			4.0ft. Gr S-3 at 4f	eenish t	brown wa	ash.
						F 5 '	- v	S		12	19					
	Brownich groop oo	and CLAY some	alay traa	$\frac{1}{2}$	Z	- 6	-			10			S-4 at 6f	4		
	(wet) [CL]	Indy CLAY, some o	ciay, trac	e fine gravei		Ē	-			4			q _u =1.25	tsf		
						- 7 -		SS	5	8	14					
						Ē	-			9						
Z	Grayish brown san	ıdy CLAY, some si	lt, trace f	-c gravel		- 8 ·	-			15			Drilled to	8.0ft.	Brownish	green
						- 9 ·	22	ss	2	11	23		S-5 at 8f	t		
						Ē		ΙE		12		\setminus				
	0 Grayish brown san	Idy CLAY, some si	lt, trace f	-c gravel	-	- 10 -	-	╞		21			S-6 at 10	Oft		
	(wet) [CL]			-		Ē	Ξų		4	20						
						- 11 · -	ļ	l s	ñ	21		41				
						- - 12 ·	-	L E		27						
						-	-									
						- 13 -	-									
						Ē										
						- 14 ·	-									
628	0					- 15 -	-					1	Duille d te	45.06	Duranaia	L.
	Gray silty CLAY, tra LL = 25, PL = 14, F	ace f-m sand (wet PI = 11) [CL]				-			10			green wa	15.011 ash.	Brownis	in
	wc = 14.2%					- 16 -	S-7	SS	12	10	20		S-7 at 15	öft		
							-			13						
						17 · -	-									
						- 18 -	-									
						È '										
						- 19 ·	-									
						E										
= <u>r//////#623</u>	U				1	- 20 -	1	1	<u> </u>		1		1			

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			Log	of E	Boring			SLE	3-22			Shee	et 2	of	2
Projec	t			Pro	oject No.			400							
Locati	on	Proposed Commercial Campus at Fields Corner		Ele	evation ar	nd Da	atum	190	06520	1					
		Southeast, New York						Арр	rox el 6	643 (un	Iknov	vn datui	m - SESI S	urvey)	
J. I. I. I. I. I. I. I. I. I. I. I. I. I.	E laur			(inin	Dauth		1	Sa	mple D	ata		-	Rem	arks	
AATER SYMB0	(ft)	Sample Description		oring (I	Scale	umbe	Type	(in)	enetr esist 3L/6in	N-Va (Blow	alue /s/ft)	(Dri Fluid	illing Fluid, De Loss. Drilling	epth of Casing Resistance.	g, etc.)
	+623.0	Gray stiff clayey SILT, some f-m sand (wet) [ML]		ŏ	_ 20 _	z			<u> </u>	10 20	30 40	Drill	ed to 20.0f	t. Brownisl	h
						φ	s	0	9	10		gree S-8	en wash. at 20ft		
						Ó	S	2	10	19-					
					- 22 -	-	E	-	11						
AN					- 22 -										
LANG															
- Bol					- 24 -	1									
eport:	+618.0				- 25 -						50/				
20 \ (,	No Recovery Bluish gray micaceous schist BOULDER	1	1:48		S-9	S	0	50/1		50/	was	ed to 25.01 h.	t. Greenisi	n gray
	5		-		- 26 -			%	%			C-1	at 25ft at 25.08ft		
			C):12	- 27 -			=30	=17			L Bou	lder		
	$\langle \langle \rangle$		c	0:09		2	<pre>Core</pre>	.09/	./60						
			F		- 28 -		î	C=18)=10						
	, Z):14	- 29 -	1		RE(RQI						
	2		1	1:08											
	 612.9	End of boring at 30.1'			- 30 -	-						Fini	shed drillin	g at 10:53 Poring	AM
5201_1					- 31 -							bac	filled with	soil cutting	is and
90065												com	ipletion.	is upon	
DGS/1					- 32 -										
INTLO					- 33 -										
CAL/G															
CHNIC					- 34 -										
EO TE					- 35 -										
NE/GI					- 36 -										
SCIPLI															
A/ DIS					- 37 -										
DAT					- 38 -										
DJECT															
1/PRC					- 39 -										
06520					- 40 -										
2/190															
DATA					- 41 -										
W P W					- 42 -										
DATA															
COMI					- 43 -										
GAN.(- 44 -										
MLAN															

LA		of Boring	SLB-23	Sheet 1 of 1
Project		Project No.		
	Proposed Commercial Campus at Fields Corner	_	190065201	
Location	Couthoast New York	Elevation and Datu	um Ammrous di 0.17 (
Drilling Compa	Southeast, New York	Date Started	Approx el 647 (ur	nknown datum - SESI Survey) Date Finished
Dining Compa	Craig Geotechnical Drilling Co. Inc.		4/22/21	4/22/21
Drilling Equipm	nent	Completion Depth		Rock Depth
	CME 75 ATV-mounted Rig		17 ft	N.E.
Size and Type	of Bit	Number of Sample	Disturbed	Undisturbed Core
Casing Diamet	er (in) Casing Depth (ft)	Water Level (ft.)	First	Completion 24 HR.
Casing Hamme	4 4 er vite Weight (Ibs) vite Drop (in) er	Drilling Foreman	<u> </u>	<u> </u>
Sampler	Automatic 140 30		Paul Mullins	
Sampler Hamn	2" OD Split Spoon	Field Engineer		
	Safety 140 140 30		Gopal Goswami	
- HILL Elev.		Depth ຫ	المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية	alue Remarks
	Sample Description	Scale E	All (in) (in) (Blow	vs/ft) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	Gravish brown silty f-c SAND some clay trace fine gravel			30 40 Started drilling at 12:21 PM on
×.	trace roots (moist) [SM]			4/22/2021.
			3 ∃ ♀ ₃ ⁻ ⁵•	S-1 at Off
	Brown silty f-c SAND, trace clay, trace f-c gravel (moist) [SM]	2	7	S-2 at 2ft
5 			13	
	Brownish gray sandy CLAY, some f-c gravel (moist) [CL]	- 4 -	6	Drove casing to 4.0ft. Drilled to
				S-3 at 4ft
			11	
	Brownish gray silty CLAY, some f-c sand, trace f-c gravel		35	S-4 at 6ft
				35+
639.0	Light groop to grovich brown condy CLAX come silt trace for	8		Drilled to 8 Oft Gravish brown
	gravel (moist) [TILL]			wash.
			° ⊂ ≈ 17 28	S-5 at 8ft
		= =		
	Light green to gravish brown silty CLAY, some f-c SAND, trace	, - 10 -	25	Drilled to 10.0ft. Greenish gray
	f-c gravel (moist) [TILL]			wash.
			8	48 S-6 at 101
			31	
				/
632.0		- = = 15		
	Gray silty CLAY, some f-m sand, trace f-c gravel (moist) [TILL]		12	wash.
			2 Ξ φ ¹³ 2 9	S-7 at 15ft
				q _u =3.50 tsf
630.0				Finished drilling at 12:59 PM
	End of boring to 17'	E I I		on 4/22/2021. Boring
		- 18 -		backfilled with soil cuttings and
3		E I I		completion.
		- 19 -		
		E I I		
≥∟		20 <u></u>		

				Log	of I	Boring			SLB	-24			Sheet	1	of	2
Project					Pr	oject No.			1000							
Location	Proposed Commercia	I Campus at Field	is Corner	ſ	EI	evation a	nd Da	atum	19006	55201						
	Southeast, New York								Appro	ox el 63	35 (ui	nkno	wn datum -	SESI 5	Survey)	
Drilling Comp	pany				Da	ate Starte	d					Date	e Finished			
	Craig Geotechnical D	rilling Co., Inc.				1.6	D		5/1	2/21		_			5/12/21	
Drilling Equip						ompletion	Dep	th		07.4		Roc	k Depth			
Size and Typ	e of Bit	Drill Rig			-		_		Distur	27 IL			Jndisturbed		IN.E.	
	3-7/8in Tricone Roller	Bit			Nu	umber of	Samp	oles			11			-		-
Casing Diam	eter (in) 4		C	asing Depth (ft) 4	w	ater Leve	el (ft.)		First		6		Completion	_	24 HR.	-
Casing Hamr	ner utomatic	Weight (lbs)	140	Drop (in)	Di	illing For	emar	<u>ו</u>	<u> </u>						<u> </u>	
Sampler			140					Pa	aul Mu	ullins						
Sampler Ham	2" OD Split Spoon	Weight (lbs)		Drop (in)	-Fi	eld Engin	eer									
	Safety		140	30			1	Ro	odrigo	Ferna	Indez	San	itoyo			
Elev						Depth	e		Sam		N-V	alue		Rem	arks	
(ft)		Sample Descr	iption			Scale	qun	Type	(in)	allo 3L/6i	(Blov	vs/ft)	(Drilling) Fluid Los	g Fluid, D s, Drilling	epth of Cas Resistance	sing, e, etc.)
+635.	0 Gravish brown sand	dy SILT some cla	av (wet) [[<u> </u>	Z				10 20	30 40	Started	Drilling	at 9:31	AM on
		ly 0121, 00110 014	iy (noi) [i			E	-			2			5/10/20	<u>ງ</u> 21. ັ		
						- 1 -		SS	15	<mark>4</mark> ۹			S-1 at	Uff		
						E	-			3						
	Grayish brown sand	dy SILT, trace clay	y (moist)	[ML]		2 -	-			7			S-2 at	2ft		
						E	2			4						
						E 3 -	ļγ	N E	50	5	1					
							1			6						
	Grayish brown sand	dy SILT, trace clay	y (moist)	[ML]		E 4 7	-			5	$ \rangle$		Drove	casing t	o 4.0ft. D	Drilled
						E	ကု	s S	0	8	22		S-3 at	4ft	DIOWITWa	asii.
						Ę	S	ľ∎		15	20					
629.	0			<u> </u>	$\overline{\nabla}$	7 <u>-</u> 6 -	-			19			0.4 -+	<u>_</u>		
	Gravish brown clay	ey f-c SAND, som	ne silt, tra	ace fine gravel		Ē	-			7			5-4 at	on		
						- 7 -	4	ss	52	11	23	.				
HH A						E				12						
	Gravish brown sand	dy SILT some da	w trace f	-c gravel (wet)		- 8 -				15			Drilled	to 8 Oft	Gravish	brow
	[TILL]	Jy OLT, Some da	iy, trace r			- 1	1			12			wash.	0.010	. orayion	bieth
						- 9 -	S-5	SS	20	16	29) }	S-5 at	8ft		
H.						E				10						
	Gravish brown sand	dy CLAY, some si	ilt, trace f	-c gravel (wet)		- 10 -	-			14			S-6 at	10ft		
JAH)	(TILĹ)			0 ()						19						
						- 11 -	- v	IS I	18	19		38				
						- 10	1			21						
						E 12 -										
HI.						- 13 -	1									
<i>BH</i> A							1									
						- 14 -	-									
1911)						E	1					$\ \ $				
	Crovish brown alov		a and the	and for arround		- 15 -							Drilled	to 15 0	ft Gravis	h
IN A	(wet) [TILL]	ey SILT, SOME I-C	, sanu, tra	ace i-c graver		Ē	1	目		5			brown	wash. F	Rig chatte	ering.
HAN IN						- 16 -	S-7	ss	12	11	22		S-7 at	15ft		
						E i				'' ₁₂						
<u> Hanna an an an an an an an an an an an an</u>						- 17 -	+	┝╘┦	\vdash							
						Ē	1									
1944)						E 18 -	1									
						Ē	-									
I A A						E 19 -	1									
(A) (D)						Ł	1									

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			of Boring		S	SLB-24		Sheet	2	of	2
Project			Project No.								
Locatio	1	Proposed Commercial Campus at Fields Corner	Elevation ar	nd Da	átum -	19006520)1				
		Southeast, New York			1	Approx el	635 (unknov	vn datum	- SESI S	urvey)	
						Sample D	Data				
VTERIA YMBOI	Elev. (ft)	Sample Description	Depth Scale	mber	ype	cov. in) netr. /6in	N-Value (Blows/ft)	(Drillin	Rema Ig Fluid, De	arKS pth of Casin	g,
°≦ XXXXXX	+615.0	Conside burgers site for CAND, some alore three for moved (web)	20	Ž		B a B a B	10 20 30 40		ss, Drilling	Resistance,	etc.)
		[TILL]		_		11		brown	wash.	Orayisii	
			- 21 -	м М	SS	[∞] 22	37 •	5-8 at	2011		
			- 22 -	_		22					
z											
			- 23 -								
			- 24 -								
The second second second second second second second second second second second second second second second s	€ 10.0	Gray silty CLAY, some f-c sand, trace fine gravel (wet) [TILL]		-	T 🛛	8		Drilled	to 25.0fl	. Grayish	na
			26 -	6-0-	ss	₹ ¹⁴	31	S-9 at	wasn. R 25ft	ig chatteri	ng.
						17					
0213	2 +608.0	End of boring at 27'	27					Finish	ed drilling	g at 10:39	AM
. 6/7/2			28 -					backfil	led with	soil cutting	gs and
EPJ								comple	nite pellet etion.	s upon	
RISE.0			- 29 -								
ERPF			- 30 -								
65201			- 31 -								
1900			- 32 -								
LOGS											
GINT			- 33 -								
IICAL			- 34 -								
ECH											
GEOT			- 35 -								
			- 36 -								
SCIP											
			- 37 -								
TDAT			38 -								
OJEC											
11/PR(- 39 -								
06520			40 -								
2/190											
DATA			<u>⊢</u> 41 −								
MAN			42 -								
ATAW											
DWD			43								
AN.C			44 -								
LANG											
≥∟			<u>45</u>	1				1			

LA	NG/	A N		Log	of E	Boring		ę	SLE	-25			Sheet	1	of	2
Project					Pro	oject No.										
	Proposed Commercia	al Campus at Fields (Corner						1900	65201						
Location					Ele	evation a	nd Da	atum	•		20 (
Drilling Comp	Southeast, New York				Da	te Starte	d		Appr	ox el 6	26 (ur	Date	vn datum - St Finished	<u>-Si Su</u>	rvey)	
5 1	Craig Geotechnical D	rilling Co., Inc.							ł	5/7/21				5/	12/21	
Drilling Equip	ment	<u></u>			Co	mpletion	Dep	th				Rock	Depth			
	CME Wheel Mounted	d Drill Rig								22 ft					N.E.	
Size and Type	e of Bit 3-7/8in Tricone Rolle	r Bit			Nu	mber of	Sam	oles	Distu	irbed	9	Ur	ndisturbed	-	ore	_
Casing Diame	eter (in)		Cas	sing Depth (ft) 4	Wa	ater Leve	l (ft.)		First ∑		15	Co	ompletion	- 2	4 HR. V	-
Casing Hamn	^{ner} Automatic	Weight (lbs)	140	Drop (in) 30	Dri	Iling For	emar	I								
Sampler	2" OD Split Spoon			•	Fie	ld Engin	eer	Pa	aul N	lullins						
Sampler Ham	i ^{mer} Safety	Weight (lbs)	140	Drop (in) 30			CCI	R	odria	o Ferna	andez	Sant				
	Galety		140	50					Sar	nple Da	ita	Jant				
Elev		Sample Descript	tion			Depth	ber	e	2°.	etr. ist 6in	N-Va (Blow		(Drilling Flu	(emai	r KS oth of Casir	a
Hod +626.0	D					Scale	Nun	Τy	Red (j	Pen BL/	10 20	30 40	Fluid Loss, D	rilling R	esistance,	etc.)
	Gray to brown claye	ey SILT, some f-m s	and, tra	ce roots (wet)		- 0 -				2			Started Di	illing a	at 10:337	AM on
≦	[TOPSOIL]					- · ·	-	s	2	2	.		S-1 at 0ft			
						- '	S	I E		2	\setminus					
624.0				0.00.0		- 2 -	<u> </u>			4	\setminus		S 2 of 2ft			
	Grayish brown slity	T-m SAND, some cl	ay (mois	st) [SIVI]			1			6			5-2 at 211			
//9						- 3 -	5-2	ss	52	8	19					
						- :	1			17						
622.0	Gravish brown SIL	T. some clav. trace f	-c sand	(moist) [ML]		- 4 -	-			7			Drove cas	ing to	4.0ft. Dri	illed to
		, come oldj, i dee i	e eana	(1			10			4.0ft.	0		
						- 5 -	ц М	SS	3	12	22		5-3 at 4ft			
										18						
	Grayish brown clay	ey f-m SAND, some	e silt, trad	ce fine gravel		- 6 -				8			S-4 at 6ft			
	(moist) [SC]						4	s	~	13	28	I I				
						- ' :	S	l" E		15						
		du CII T traca alou t	trace fin	a groupl (maint)		- 8 -				13			Drilled to a	8 Oft (Gravieh h	rown
	[TILL]	dy SILT, trace clay, t	trace fin	e gravel (moist)			1			10			wash.	5.011. 0	Jiayisii b	
						- 9 -	S-5	SS	15	14	29	┥	S-5 at 8ft			
							1			20						
	Grayish brown san	dy SILT, some clay,	trace fin	e gravel (moist)		- 10 -	-			12			S-6 at 10f	ť		
	(TILĹ)			,			6			17						
						- 11 -	က်	SS E	Ť	21		38				
						- 12 -				22						
						- 12	1									
						- 13 -	-									
							1									
						- 14 -	1									
							1									
	Gravish brown san	dy SILT, some clav.	trace fi	ne gravel (wet)	¥	- 15 -	-	╞		13			Drilled to	15.0ft.	Grayish	
	[[TILĹ]	, , , ,		J (····)			~			9			brown wa	sh.	-	
						- 16 -	۰.	I S	7	16	25					
						L 17				15						
							1									
						- 18 -	1									
							1									
						- 19 -	1									
Z C C C C C C C C C C C C C C C C C C C							1									
= [X/][[[]][[]]						E 20 -	1									

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		of Boring		9	SLE	8-25		Sheet	2	of	2
Project	Proposed Commercial Campus at Fields Corner	Project No.			1900)6520 ⁻	1				
Location	Southeast, New York	Elevation ar	nd Da	atum	Аррі	rox el 6	626 (unknov	vn datum ·	- SESI Si	urvey)	
RIERIAL SYMBOL (tf)	Sample Description	Depth Scale	lumber	Type	Sarov. (in)	^{senetr.} resist 3L/6in	ata N-Value (Blows/ft)	(Drillin Fluid Los	Rema g Fluid, De s, Drilling F	r ks pth of Casin Resistance,	g, etc.)
t: Log - LanGaN	Grayish brown clayey SILT, trace f-c sand (wet) [TILL]	20 21 22 23 23 24	S-8	SS	15	8 7 13 13	20+	Drilled brown S-8 at q _u =3.5	to 20.0ft wash. R 20ft 0 tsf	. Grayish ig chatter	ing.
Hode W 601.0	Gray sandy CLAY, trace fine gravel (wet) [TILL]	25 - 26 -	S-9	SS	20	8 10 17 15	27•	Drill to wash. S-9 at q _u =1.7	25.0ft. G Rod Cha 25ft 5 tsf	Grayish bro attering	own
LANGAN.COMDATAWPWDATA2(190065201)PROJECT DATA_DISCIPLINE/GEOTECHNICAL/GINTLOGS(190065201_ENTERPRISE.GPJ 6/7/2021 3: 0.665	End of boring at 27'	27 28 29 30 31 31 32 33 34 35 36 36 37 38 39 40 41 41 42 43				15		Finishe on 5/7, with so pellets	ed drilling (2021. Bo iii cutting upon cor	at 11:36 pring back s and ben mpletion.	AM filled tonite

LA		of E	Boring		ę	SLB	-26			Sheet	l of	2
Project		Pr	oject No.									
Location	Proposed Commercial Campus at Fields Corner	FI	evation an	d Da	atum	19006	65201					
Loodion	Southeast. New York		evalion an			Appro	ox el 63	8 (un	know	/n datum - SES	Survev)	
Drilling Compa	any	Da	ate Started	1					Date	Finished	<u> </u>	
Drilling Equips	Craig Geotechnical Drilling Co., Inc.		malation	Dan	t h	5	/7/21		Deal	Donth	5/7/21	
Drilling Equiph			ompletion	Dep	เก		27 ft		ROCK	Depth		
Size and Type	of Bit		umbor of C	Some		Distur	rbed		Un	ndisturbed	Core	
Casing Diame	3-7/8in Tricone Roller Bit			bann	JIES	First		9	- Co	- moletion	24 HR	-
	4 <u>4</u>	W	ater Level	(ft.)		$\underline{\nabla}$		10		<u> </u>	<u> </u>	-
Casing Hamm	Automatic Weight (lbs) Drop (in) 30	Dr	illing Fore	mar	ו 							
Sampler	2" OD Split Spoon	Fi	eld Engine	er	Pa	aui Mi	ullins					
Sampler Hamr	ner Safety Weight (Ibs) Drop (in) 30		0		R	odrigo	Ferna	ndez	Santo	оуо		
			Dauth	L		Sam	ple Dat	a		Re	marks	
	Sample Description		Scale	admu	Type	ecov.	eneu esist L/6in	N-Va (Blow	ilue /s/ft)	(Drilling Fluid	, Depth of Casi	ing,
e ≥ ** +638.0	Light brown sandy SILT trace day, trace roots (maist) [ML]		_ 0 _	ž			<u> </u>	10 20	30 40	Started drilli	ng at 9.21 A	Mon
							1			5/7/2021.	ng at 0.217	
13 1			- 1 -	s.	SS	15	2 ² 49			S-1 at Off		
50 50 50 50 50 50 50 50 50 50 50 50 50 5							2	$\backslash \mid$				
	Grayish brown silty f-c SAND, trace clay (moist) [SM]		F 2 -				7	$ \rangle $		S-2 at 2ft		
0/7/2			- 3 -	2	ss	10	12	22				
				0)	ΪĒ		10					
	Gravish brown to brown silty CLAY some f-c sand (moist) [CL	1	- 4 -				8			Drove casin	a to 4.0ft. D [.]	rilled to
		-1		_			8			4.0ft. Brown	wash.	
			- 5 -	ц С	SS	∞	8	16		5-3 at 4ft		
							17					
	Grayish brown SILT, some f-m sand, some clay (moist) [TILL]						18		\mathbb{N}	S-4 at 6ft		
			- 7 -	4	ss	2	18		41			
				0)			23					
	Gravish brown SILT, some clay, trace f-m sand, trace coarse		- 8 -				30			Drilled to 8.	Oft. Gravish	brown
	gravel (moist) [TILL]			10			13			wash.		
			9 -	ပ်	SS	50	16	29	t I	3-5 al oli		
		∇					15					
	Grayish brown sandy CLAY, some silt, trace fine gravel (wet)	-					8			S-6 at 10ft		
			- 11 -	9	ss	54	13	24		10		
							11	$ \rangle$				
			- 12 -				15					
			- 13 -									
	Gravich brown silty CLAX, some fig sand (wat) [TILL]		- 15 -				44			Drilled to 15	Oft	
	Grayion brown billy CLAT, Sollie I-C Salia (Wel) [TILL]						14		$ \rangle$	S-7 at 15ft		
			F 16 -	S-7	SS	5	27		46	q _u =1.50 tsf		
							27					
			E 18 -									
			- 19 -									
< <u> </u>			느 20 그		I					1		

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			of Boring		S	LB-26		Sheet	2	of	2
Project		Proposed Commercial Campus at Fields Corner	Project No.		1	9006520	1				
Location	ı	Southeast, New York	Elevation and	d Dat	tum A	pprox el 6	38 (unknov	vn datum -	SESI SI	urvey)	
						 Sample D	ata				
MATERIA SYMBOI	Elev. (ft)	Sample Description	Depth Scale	Number	Type	(in) Penetr. resist BL/6in	N-Value (Blows/ft)	(Drillin) Fluid Los	Rema g Fluid, De s, Drilling F	I FKS pth of Casing Resistance, o	g, etc.)
		No Recovery	20	_	Ŧ	3		Drilled	to 20.0ft wash Ri	. Grayish	na
			21 -	မိ လ	ss	0 9 13	22	S-8 at	20ft	gonation	19.
	1414		- 22 -			12					
z											
ANG			- 23 -								
	A LANK		_ 24 _								
Seport	+613.0				_			Drilled	to 25 Oft	Gravish	
M	A AVA A	Gray sandy SiL1, some day, trace fine graver (wet) [TILL]		ၐ	s II.	18		brown S-9 at	wash. Ri 25ft	g chatteri	ng.
19:13			20 -	ò	s II	22	40-				
50213	8 +611.0	End of boring at 27'				25		Finishe	ed drilling) at 10:16	AM filled
6/7/			28 -					with so	il cutting	s and ben	tonite
E.GPJ			- 29 -						•	•	
RPRIS											
ENTE			- 30 -								
065201			- 31 -								
SN1900			- 32 -								
NTLOG			- 33 -								
CAL/GI											
CHNIC			- 34 -								
GEOTI			35 -								
PLINE			- 36 -								
DISCI			- 37 -								
DATA											
DJECT											
01\PR(- 39 -								
900652			40 -								
vTA2\1			41 -								
PWD			42								
ATAW			42 -								
COM/D/			43								
IGAN.C			44								
//LAN			$- [45]{45}$								

LA		4/V	L	og of l	Boring		ę	SLB-	27			Sheet	1	of	2
Project				Pi	roject No).									
Location	Proposed Commerci	al Campus at Fields C	orner		lovotion	and D	oture	19006	5201						
Location	Southeast Now Vor	<i>x</i>			evalion	anu D	สเนทิ	Approx	A 615	(upl	(nov	vn datum	- 9591	Survey	
Drilling Com	pany	N		D	ate Start	ed			CEI 040	uni I	Date	Finished	- 3531	Survey)	
	Craig Geotechnical [Drilling Co., Inc.						5/	7/21					<u>5/7/</u> 21	
Drilling Equip	oment			С	ompletic	n Dep	th			1	Rock	Depth			
Size and Tur	CME 75 ATV-mount	ed Rig						Distur	27 ft		1.1.	ndisturbed	4	N.E.	
Size and Typ	3-7/8in Tricone Rolle	er Bit		N	umber o	f Sam	ples	Disturi	leu	9		luistui beu	-	Core	-
Casing Diam	eter (in) 4		Casing Depth (f	t) 4 W	/ater Lev	/el (ft.)		First ∑		8	Co	ompletion	-	24 HR.	-
Casing Ham	^{mer} Automatic	Weight (lbs)	40 Drop (in) 3	0	rilling Fo	remai	ו			-		<u> </u>			
Sampler	2" OD Split Spoon	1		Fi	ield Engi	noor	Pa	aul Mu	lins						
Sampler Han	nmer Safety	Weight (Ibs)	40 Drop (in)	۰ ' '		neer	R	odriao	Fernand	dez (Sant				
	Carcty		+0 0	•				Samp	le Data		Jant	J			
	<i>ν.</i>	Sample Description	on		Depth	n de	be	ov. etr.	6in	N-Va Blow	lue s/ft)	(Drilli)	Ren na Fluid.	NARKS Depth of Ca	asina.
ັ≨ິ ∳645	.0					Nun	Ty	Pen (<u>ة</u> און און און און און און און און און און	20 3		Fluid Lo	oss, Drillin	ng Resistan	ce, etc.)
	Brown silty f-m SA	ND (moist) [SM]			F 0 ·	-		3				Starte	ed drillin	g at 7:35	AM on
					Ē 1	1	ss		3 8.			S-1 at	t Oft		
					E'	S	l" E	5	Ň						
643	.0	T come fine could (not			÷ 2	4			5	$\langle $		S-2 at	t Oft		
	Grayish brown SIL	. I, some i-m sand (mo	ist) [IVIL]		E	-		8				0-2 a	1211		
					- 3		ss	4	, ⁸ 1	9					
					E	-			14						
	.0Gravish brown silty	y f-m SAND, trace clay	, trace fine gravel		- 4	-		1	1	`		Drove	casing	to 4.0ft.	Drilled to
	(moist) [SM]	,	C C		E	10			13		$ \rangle$	4.0ft.	Brown	wash.	
					5	<u>الج</u>	SS	2	7		40	5-5 a	1411		
+639	0				F a	4			22						
	Grayish brown san	ndy SILT, trace clay, tra	ace fine gravel (mo	pist)	Ē	- 4	ss	₹ 1	4			S-4 at	t 6ft. Sp	oon bour	ncing
	[ML]				Ē,		T		0/3		50/3	3			
					Ë '	-									
637		dy SILT trace day tr	and find group (we	<u>, </u>	4 8	4	╞					Driller		ft Gravis	h brown
	[TILL]		ace fille gravel (we	:L)	Ę	-		9				wash.	Hard d	rilling at 7	7ft.
HALL.					- 9	S-5	SS	₩ 1 9	5	24 🧹		S-5 at	t 8ft		
					E	=			30	\					
ALA A	Grayish brown SIL	.T, some f-c sand, trac	e clay, trace fine		E 10	+	ΤĒ		4		\mathbb{N}	S-6 at	t 10ft		
17 Alexandre and a second second second second second second second second second second second second second s	gravel (wet) [TILL]		-		F	9		-	15		$ \rangle $				
					F ¹¹	ΞŶ	š	[∧] 2	4		59 1				
					E 12	1			27						
					- 12	4									
					F 13	1									
					Ē	-									
HAN AND					- 14	-	1								
					E	1	1								
HALA IN	Gravish brown clay	yey SILT, some f-c sar	nd, trace fine arave	e	- 15	+	╞		_			Drilleo	d to 15.0	0ft. Grayi	sh
	(wet) [TILL]	, , , <u>,</u>	,		E				24			brown	wash.	,	
					E ¹⁶	<u>ارم</u>	SS	× ₂	o		44	, s- <i>i</i> a	riait		
					F	-			20						
					F 1/	-									
					E 18	-	1				/				
L. L. L. L. L. L. L. L. L. L. L. L. L. L					È	-									
HANA AND					- 19	4	1								
<u> IIII</u>					Ē	1	1								
X/1/1/ A+625	.0				上 <u>20</u> .	-									

L	. A	Ν	G,	4/	V

		of Boring	SLB-27		Sheet	2	of	2
Project	Proposed Commercial Campus at Fields Corner	Project No.	19006520 ²	1				
Location	Southeast, New York	Elevation and	d Datum Approx el 6	645 (unknow	/n datum -	SESI Su	rvey)	
HITERIAL SYMBOL (t) SYMBOL	Sample Description	Depth Scale	Vumber Type Recov. (in) Penetr. BL/6in	N-Value (Blows/ft)	(Drilling Fluid Loss	Remai Fluid, Dep s, Drilling R	r ks oth of Casing cesistance, e], etc.)
LANGAN	Gray silty CLAY, some f-c sand trace fine gravel (wet) [TILL]	20	α φ φ φ φ φ φ φ φ φ φ φ φ φ	26	Drilled 1 brown v S-8 at 2 q _u =2.25	to 20.0ft. wash. Rig 20ft 5 tsf	Grayish J Chatterin	ng.
3:19:18 PM Report: Log -	Gray clayey SILT, some f-c sand trace fine gravel (wet) [TILL]	24	00 80 41 15 20 29	35•	Drilled brown v S-9 at 2	to 25.0ft. wash. 25ft	Grayish	
NLANGAN.COMIDATA2/190065201\PROJECT DATA_DISCIPLINE\GEOTECHNICAL\GINTLOGS\190065201_ENTERPRISE.GPJ 6/7/2021	End of boring at 27'	27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 44 45			Finishe 5/7/202 with so pellets	d drilling 1. Boring il cuttings upon cor	at 8:22 A j backfille and bening npletion.	M on d conite

LA	4	NLA	A/V		Log	of E	Boring			SLE	8-28				Sheet	1	of	1
Project						Pro	oject N	0.										
Lastian		Proposed Commercia	l Campus at Field	ds Corner	•				-4	1900	06520	1						
Location		Southoost Now Vork				Ele	evation	and D	atum	٨٥٥	rov ol (200 /	unk	0.014	n datum SE			
Drilling Co	ompa	ny				Da	ite Star	ted		Аррі	ox er t	529 (1		ate F	Finished	.51 Sui	vey)	
		Craig Geotechnical D	rilling Co., Inc.							4	/26/21					4/2	26/21	
Drilling Eq	luipm	ent				Co	mpletio	on Dep	oth				R	ock	Depth			
Size and T		CME 75 ATV-mounte	d Rig							Dict	15.6 ft			LIn	dicturbod		N.E.	
Size and I	i ype i	3-7/8in Tricone Roller	Bit			Nu	imber c	of Sam	ples	Dist	uibeu	7	,		uistui beu	.	UIE	-
Casing Dia	amet	er (in) 4		С	asing Depth (ft) 4	W	ater Le	vel (ft.))	First 	l	6	i	Co	mpletion	. 24	1 HR. ⊈ 1	2.5
Casing Ha	amme	Automatic	vveight (ibs)	140	Drop (in) 30	Dr	liling Fo	oremai	n n		4							
Sampler		2" OD Split Spoon				Fie	eld Eng	ineer	P	auriv	iuiins							
Sampler H	lamn	^{ner} Safety	Weight (Ibs)	140	Drop (in) 30		-		G	iopal	Goswa	ami						
			•						-	Sa	mple D	ata			R	'emar'	ke	
ATER C	tev. (ft)		Sample Desci	ription			Scale	n a	ype	in) .	netr. ssist -/6in	N- (Bl	Valu ows,	ie ′ft)	(Drilling Flu	id, Dept	th of Casir	ng,
a ≥°Ω +6	629.0							Ĩ	-	Å,	P a BI	10 2	0 30	40	Fluid Loss, Di	illing Re	esistance,	etc.)
		Brown silty f-m SAN	ND, some clay, tra	ace roots	(moist) [SM]		Ē				2				4/26/2021	iling at	(8:22 AI	vi on
4 ∑ ≥							- 1	42	SS	12	2	5 •			S-1 at 0ft			
N.6-							-	=			3							
		Brown siltv f-m SAN	ND. some clav. tr	race f-c a	ravel. trace roots		- 2		┼╞	-	3	$\left \right $			S-2 at 2ft			
		(moist) [SM]	·_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,.,.,.,.,,,,,,.,.,.,.,,,.,,,,.,,.						IE		4							
õ		passing #200 = 45% wc = 12 2%	%				- 3	-1 ??	SS	12	5	9						
	325.0	organic content = 1	.0%				Ę,	=	IE		7							
	20.0	Brown clayey f-m S	AND, some silt, t	trace f-c g	ravel (moist)		E 4	-	Ē		5	1			Drove cas	ng to 4	4.0ft. Dr	illed to
		[SC]						- 0	s	8	5				S-3 at 4ft	/n was	sn.	
							F 3	÷،	S	-	6				-			
	523.0					∇	E e	-			6							
		Brown clayey SILT,	some f-c sand, t	race f-c g	ravel (wet) [ML]		Ē	-	ΙĒ		6				S-4 at 6ft			
							E 7	<u> </u>	ss	4	6	14						
								= 0	ľ	Ì	8							
	621.0	Grav silty f-m SAN) some f-c grave	l trace cl	av (wet) [TILL]		- 8				7				Drilled to 8	Oft B	srown wa	ash
			5, some r-c grave				-	-			4				S-5 at 8ft	.on. D		
							- 9	S-5	SS	16	4	6						
							-	=	ΙĒ		- 6							
		No Recovery					- 10	-	TE		12	\			S-6 at 10f	. Poss	ible bou	lder.
							Ē	- 0			13		\backslash					
							- 11 E	ج م	I S	0	17		30					
							-	-			25							
						V		-										
						-	- 13	_										
							E	-										
							- 14	4										
							E	-										
		Greenish arav dave	ev SILT some f-c		vet) [SM]		- 15	1	s		10				Drilled to 1	5.0ft.	Grav bro	own
n fallen f e	613.4						E	<u> ഗ</u>	ő	3	1∠ _50/1_			50/1	wash.			
AIA		End of boring at 15	.6'				- 16	-							S-7 at 15f	Poss rillina	at 8:55	ider. AM on
							E								4/26/2021	. Insta	lled 2"	
							E 17	-							diameter F	'VC tei n well	mporary with 10f	, T
							-	-							slotted scr	een ar	nd 5ft ris	er.
							F 18	-										
J. C.							E 10	1										
N C							E	=										
							E 20	_										

LA	4	NLA	A N		Log	of B	oring		ę	SLE	8-29				Sheet	1	of	1
Project						Proj	ect No.											
Leastion		Proposed Commercia	al Campus at Field	ds Corner			untion of			1900	06520	1						
Location		Southoast Now Vork				Elev	alion a		atum	Ann		621	un	know	vn datum SI	-01 01		
Drilling Co	ompa	ny	<u> </u>			Dat	e Starte	d		Аррі	OX EI I	031	<u>un</u>	Date	Finished	201 00	livey)	
		Craig Geotechnical D	Filling Co., Inc.							4	/26/21					4/	26/21	
Drilling Eq	quipm	ent				Con	npletion	Dep	th					Rock	Depth			
Size and T		CME 75 ATV-mounte	ed Rig							Diet	17 f	t			ndisturbed	(N.E.	
OIZE and I	i ype i	3-7/8in Tricone Roller	r Bit			Nun	nber of	Sam	ples	Dist	libed		7		laistaibea	-	5016	-
Casing Dia	amet	er (in) 4		Ca	asing Depth (ft) 4	Wa	ter Leve	l (ft.)		First ∑	t		6	Co	ompletion	- 2	24 HR. 	-
Casing Ha	amme	Automatic	Weight (Ibs)	140	Drop (in) 30	Drill	ing For	emar	ו ר									
Sampler		2" OD Split Spoon				Fiel	d Engin	eer	Pa	aul IV	lullins							
Sampler H	lamn	^{ner} Safety	Weight (Ibs)	140	Drop (in) 30	1	5		G	opal	Gosw	ami						
		j							1	Sa	mple D)ata				, omo	rke	
YMBC	=lev. (ft)		Sample Desci	ription			Depth Scale	mber	ype	in) :	netr. sist /6in	(E	l-Va low	lue s/ft)	(Drilling Fl	uid, Dep	pth of Casing	I ,
Fe po te	631.0						- 0 -	Ĩ	ι μ	Re Re	Pe Bl	10	20 :	30 40	Fluid Loss, D	rilling F	Resistance, e	etc.)
Ω.		Brown silty f-m SAI	ND, some clay, tra	ace f-c gra	avel (moist) [SM]	E	Ū	1	ΙE		1				4/26/2021	illing a	at 9:12 Aiv	1 on
M PM						þ	- 1 -	12	SS	12	3	79			S-1 at 0ft			
19:20						E		10	ΙĒ		4							
	629.0	Gravish brown san	dy SILT some da	av (moist)		_	- 2 -	_		-	5	$\left\{ \right\}$			S-2 at 2ft			
1/202		Grayish brown san		ay (moist)		þ		1			0							
9						E	- 3 -	S-2	SS	16	6	12						
<u>a</u> l · · · · · · ·						E		1	ΙE		5							
		Grayish brown san	dy SILT, some cla	ay, trace f-	-c gravel (moist)	þ	- 4 -	-			7	1			Drove cas	ing to	4.0ft. Dril	led to
Harris I.		[ML]	0/		,	E		9			6				4.0ft. Brov	wn wa	ish.	
Ë.		$passing #200 = 50^{\circ}$ wc = 13.3%	%			E	- 5 -	ပ်	IS E	1	7	13			0-0 at 411			
	325.0					∇		1			7							
	20.0	Grayish brown silty	rf-c SAND, some	clay, trace	e f-c gravel (wet)		- 6 -		E		9	1			S-4 at 6ft			
00 <u>0</u>		[SM]				E	- 7 -	4	s	0	7	12						
SGS/						F		S	I S	-	5							
						F	- 8 -	<u> </u>			5				Drilled to	0.04	light brow	
		Grayish brown silty	f-c SAND, some	clay, trace	e f-c gravel (wet)	Ē		1			2				wash.	5.UIL I	LIGHT DIOW	11
		[9]				F	- 9 -	22	ss	20	5	12+			S-5 at 8ft			
된						F]"			7	$ \rangle$						
	621.0	Gravish brown san		av trace f	c aravel (wet)	-E	- 10 -	-			11				S-6 at 10	ť		
		[ML]		ay, a doo i	o graver (mot)	E		1			14							
						F	- 11 -	s S	SS	12	11	2	2					
						E		1			15							
						E	- 12 -	-			-				Rig chatte	ring		
Į į						E		-										
5						Ē	- 13 -	1							Rig chatte	ring		
Ş						F		1										
						E	- 14 -	-										
6	616.0						- 15 -	1								4 - 04	• • •	
		Gray silty f-m SAN	D, some clay, trac	ce fine gra	vel (wet) [TILL]	E	10	1			21				brown wa	15.0ft. sh	. Grayish	
A A A A A A A A A A A A A A A A A A A						F	- 16 -	5	ss	9	18			38	S-7 at 151	t		
						Ē	-	10	Ē		20							
	614.0					+	- 17 -	<u> </u>	<u> </u> ⊨		15				Finished	Irilling	iat 9·43 ∆	Mon
TAIL		End of boring at 17				F		1							4/26/2021	. Bori	ng backfill	ed
WD/						Ē	- 18 -	1							with soil o	utting	s and beni	tonite
0						E		1							peners up	511 001		
GAN						F	- 19 -	1										
ITAN						Ē		1										
~ _							- 20 -		1				-		1			

LA	NGAN	Log	of B	oring		ę	SLB	-30			Sheet	1	of	1
Project		-	Pro	ject No.										
	Proposed Commercial Campus at Fields Corner						1900	65201						
Location			Ele	vation a	nd Da	atum			· · · ·				,	
Drilling Compa	Southeast, New York		Dat	e Starte	d		Appro	ox el 63	30 (ur	know Date	/n datum - SE Finished	SI Sur	vey)	
2g compe	Craig Geotechnical Drilling Co. Inc.				-		4/2	26/21		Date		4/2	6/21	
Drilling Equipn	nent		Cor	npletion	Dep	th	-1/2	20/21		Rock	Depth	-1/2	0/21	
	CME 75 ATV-mounted Rig							17 ft					N.E.	
Size and Type	of Bit 3.7/8in Tricono Pollor Bit		Nur	nber of	Sam	oles	Distu	rbed	7	Ur	ndisturbed	Co	ore	
Casing Diame	ter (in) Casing Dej 4	oth (ft) 4	Wa	iter Leve	el (ft.)		First ▽		7 8	Co	ompletion	. 24 . \	HR.	-
Casing Hamm	er Weight (lbs) Drop (i	ⁿ⁾ 30	Dril	ling For	emar	ו	_						-	
Sampler	2" OD Split Speen	00				Pa	aul Mu	ullins						
Sampler Hamr	ner Weight (lbs) tra Drop (i	n)	Fiel	ld Engin	eer	~								
	Safety 140	30	1		1	G	opal (Sam	Soswai	ni 'a					
- HOL Elev.	Comula Description			Depth	ē	n			N-Va	alue	R	emar	٨S	
(ft) SYM	Sample Description			Scale	qun	Type	(in)	arie resis 3L/6i	(Blov	/s/ft)	(Drilling Flu Fluid Loss, Dr	iid, Dept rilling Re	h of Casing sistance, e	l, tc.)
± +630.0	Brown silty f-m SAND some clay trace f-c gravel trac	e roots		_ 0 _				2	10 20	30 40	Started Dr	illing a	10:02 A	Mon
→	(moist) [SM]				1			2			4/26/2021			
				- 1 -	5	SS	4	2 ⁵	•		S-1 at Off			
			E					3						
628.0	Brown clayey f-c SAND, some silt, trace f-c gravel (mo	oist) [SC]] -	- 2 -	-			5			S-2 at 2ft			
	passing #200 = 41%	,				LE		4			q _u =.50 tsf			
	WC = 14.8%			- 3 -	ပ်	ss	12	2 6						
								4						
	Grayish brown clayey f-c SAND, some silt, trace f-c gr	avel	Ē	- 4 -				6			Drove casi	ng to 4	I.Oft. Dril	led to
	(moist) [SC]				- m	s		5			S-3 at 4ft	t drowr	i wasn.	
				- 5 -	ြက္	l si	1	5			q _u =1.25 ts	f		
			F	-	1			6						
	Grayish brown sandy CLAY, some silt, trace f-c gravel	(moist)		- 0 -	-			5			S-4 at 6ft	¢		
	[CL]		Ē	- 7 -	4	ΩE	2	5			q _u =1.23 is	1		
				- ' -	S	I S		5	1					
			∇	- 8 -				4			Dellector	0.064		
	Grayish brown sandy CLAY, some silt (wet) [CL]		Ē					1			S-5 at 8ft	5.UTT.		
			E	- 9 -	-2	ss	9	6	34		q _u =1.25 ts	f		
			Ē		- 00	ΪE		7	$ \rangle $					
620.0	Crouich groop doyou SILT come field and trace field			- 10 -	-			10	$ \rangle$		S-6 at 10ft	ł		
	(wet) [ML]	avei	E					13			0-0 at 101	•		
			Ē	- 11 -	- 9-	ss	50	11	29	¥				
								18						
				- 12 -	-			20			Rig chatte	ring. P	ossible	
			F		1						boulder.	0		
<u></u>			F	- 13 -	1									
			F		1									
			F	- 14 -	1									
			Ē		1									
	Grayish green silty CLAY, some f-c sand, trace f-c gra	vel (wet))	- 15 -	-			10			Drilled to 1	5.0ft.	Gray was	sh.
	[TILL]	. ,	Ē	-	~			10			S-7 at 15ft	t		
			Ē	- 16 -	ļγ	I si	12	13	23					
5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					1			13						
	End of boring at 17'			- 1/ -							Finished d	rilling a	at 10:40 /	AM
			F	- 10	1						backfilled	v∠ i. B0 with so	il cuttina	s and
			F	10	1						bentonite p	pellets	upon	-
			Ē	- 10 -	1						completion	1.		
			þ											
				_ 20 _	+									

LA	NG/	4/V		Log	of E	Boring		ę	SLB	-31			Sheet	1	of	1
Project					Pro	oject No.										
	Proposed Commercia	al Campus at Field	ds Corner						1900	065201						
Location	Coutboost Now Vork				Ele	evation a	na Da	atum	٨٣٣٣	iov al CC	0	linou	un datum Cl			
Drilling Compa	any	(Da	te Starte	d		Appr	ox el 63	50 (ur	Date	Finished	-51 Su	rvey)	
	Craig Geotechnical D	Drilling Co., Inc.							5/	/10/21				5/1	2/21	
Drilling Equipr	nent				Co	mpletior	n Dep	th				Rock	Depth			
Cine and Turns	CME Wheel Mounted	d Drill Rig							Dist	17 ft					N.E.	
Size and Type	3-7/8in Drag Bit				Nu	imber of	Sam	ples	Disi	irbed	7		naisturbea	-	ore	-
Casing Diame	ter (in) 4		Ca	asing Depth (ft) 4	W	ater Leve	el (ft.)		First ∑		4	Co	ompletion	- 24	4 HR. ⊈	-
Casing Hamm	^{er} Automatic	Weight (lbs)	140	Drop (in) 30	Dri	illing For	emar	ו								
Sampler	2" OD Split Spoon				Fie	eld Engin	eer	Pa	auiiv	luiiins						
Sampler Ham	^{ner} Automatic	Weight (lbs)	140	Drop (in) 30		Ū		R	odrig	o Ferna	Indez	Sant	OVO			
		·		·					Sar	nple Da	ta			Zomar	ke	
Sol Radia Elev. Liev. (ft)		Sample Descr	ription			Depth Scale	mber	ype	in) cov.	netr. sist /6in	N-V (Blov	alue vs/ft)	Drilling Fl	uid, Dep	th of Casin	g,
tod ^{≥ 0} +630.0						L	N	É.	~ Re	BL BL	10 20	30 40	Fluid Loss, E	Irilling Re	esistance,	etc.)
	Light brown SILT, s	some fine sand, so	ome clay,	trace roots		E	-	ΙE		1			5/10/202	illing at 1.	t 10:08 <i>F</i>	NM on
						- 1 -	17	ss	5	1 2 9			S-1 at 0ft			
						E	10	ΪE		1						
628.0	Gravish brown silty	f c SAND trace	clay trace			- 2 -	<u></u>	+		3			S-2 at 2ft			
	(moist) [SM]	T-C OAND, liace (ciay, trace	e coarse graver		-	4			4 5						
0						- 3 -	S-2	SS	18	_ ٽ ا ()					
					∇		1			6						
2.000 1 1 1 1 626.0	Grayish brown san	dy SILT, trace clay	y (wet) [N	1L]	<u> </u>	- 4 -	+			3			Drove cas	sing to -	4.0ft. Dri	lled to
				-		-	1	E		3			4.0ft.			
						E 5 -	ပ်	IS E	12	3	t		0-0 at 411			
						F _	-	ΙE		3						
	Grayish brown CLA	AY, some silt, som	ne f-m sar	nd (wet) [CL]		F 6 -	-			4			S-4 at 6ft			
						E , _	4	s	_	5						
						- '	-0	I S		5						
622.0	2					- 8 -	1			5			Duillad to	0.04 ()	
	Grayish brown san	idy SIL1, some cla	ay, trace f-	-c gravel (wet)		Ē	1			18			wash. Ri	g chatt	ering.	rown
	[]					- 9 -	1.2	ss	10	15	29		S-5 at 8ft	5	5	
						E	3	ΙĒ		14						
	Gravish brown san	udy SILT trace clay	v trace f-	c aravel (moist)		- 10 -		HE		14			S-6 at 10 [°]	ft		
	[TILL]		y, 1100 1			F	1			14						
						- 11 -	-0-5	ss	4	20	1	4				
							1			20						
						E 12 -	<u>+</u>									
							1									
						E 13 -	1	1								
							1	1								
						- 14 -	1	1								
	_		_			- 15 -	1	<u> </u>						45.00	O	
	Grayish brown silty	/ f-c SAND, trace f	f-c gravel	(wet) [TILL]		E 'S	1	目		7			brown wa	15.0ft. ish Ric	Grayish I chatteri	na.
						- 16 -	17	ss	9	9	24		S-7 at 15	ft	,	.9.
						E]"	ΙĒ		15						
613.0	Ford of the total total	71				- 17 -	1	<u> </u>		18			Finished	drillina	at 1:30 F	PM on
	End of boring at 17	7°				F	4	1					5/12/202	1. Borir	ng backfi	led
						- 18 -	-	1					with soil o	uttings	and ber	itonite
						E	1							011 0011	101011.	
ICAL						- 19 -	=	1								
							1									
						- 20 -	-		· · · · · ·	1						

LA	NLA	A/		Log	of B	oring			SLE	3-32				Sheet	1	of	1
Project					Pro	ject No.											
Location	Proposed Commercia	al Campus at Fiel	ds Corne	r	Fle	vation ar	nd Dr	atum	1900	06520	1						
Location	Southeast New York	ć				valion a		atum	Anni	rox el i	629 (unl	know	n datum - SF	SLSu	rvev)	
Drilling Compa	any				Dat	te Starte	d		/ ippi		020 (Date	Finished		1409)	
	Craig Geotechnical D	Drilling							5	/10/21	1				5/1	10/21	
Drilling Equipn	nent				Co	mpletion	Dep	th					Rock	Depth			
Size and Type	CME Wheel Mounted	d Drill Rig			+				Dist	17 f	t		Un	disturbed		N.E.	
	3-7/8in Tricone Rolle	r Bit			Nu	mber of \$	Sam	ples	Diot	anbou	-	7				010	-
Casing Diame	ter (in) 4		C	Casing Depth (ft)	Wa	ater Leve	l (ft.)		First $\underline{\nabla}$		4	1	Co	mpletion	- 24	4 HR. <u>V</u>	-
Casing Hamm	^{er} Automatic	weight (ibs)	140	30 Drop (In)		lling Fore	emar	ו		1							
Sampler	2" OD Split Spoon				Fie	ld Engin	eer	Pa	auiiv	iuiiins							
Sampler Hamr	^{ner} Automatic	Weight (Ibs)	140	Drop (in) 30		-		R	odrig	o Feri	nande	ez S	Santo	руо			
						D		1	Sa	mple D	Data			- 6	emai	ks	
Elev.		Sample Desc	ription			Deptn Scale	mbei	ype	in) (netr. sist _/6in	(B	-Va low	lue s/ft)	(Drilling Flu	iid, Dep	th of Casin	g,
ōg ^{≩ ∽} +629.0						- 0 -	Ĩ	-	Å,	BI a BI	10	20 3	80 40	Fluid Loss, D		esistance,	etc.)
r i i i i i i i i i i i i i i i i i i i	Light grayish browr	n silty f-m SAND,	trace clay	y (wet) [SM]			1	ΙE		1				5/10/2021	iling a	t 9:26 Al	vion
≥					ŀ	- 1 -	5	SS	15	1	39			S-1 at 0ft			
? 						: :		ΙE		2 5	$ \rangle $						
627.0	Gravish brown san	dv SILT. trace cla	av (moist)		{	- 2 -	-	ΗĒ		5	+			S-2 at 2ft			
		,	,					E		7							
					ŀ	- 3 -	ц Ч	SS	15	8	15						
5					∇		1	ΙE		8							
	Grayish brown silty	/ f-c SAND, trace	fine grave	el, trace clay (wet	:) _	- 4 -	1			7]			Drove cas	ng to	4.0ft. Dri	illed to
	[SM]					- 5 -	Ϋ́	l s	5	6	13.			S-3 at 4ft		Own was	
							S	I I	-	7							
623.0	0		(() =			- 6 -				7				S 4 of 6ft			
7000	Grayish brown san	dy SIL1, trace cla	ay (wet) [N	ИLJ			1			6				5-4 at 611			
					ŀ	- 7 -	4	SS	10	5	12						
					-					7							
621.0	Gravish brown san	dv SILT. some cla	av. trace 1	fine gravel (wet)		- 8 -	<u> </u>	HE	-	5				Drilled to 8	3.0ft. (Grayish b	orown
	(TILĹ)	,	,	5 ()			1.0	LE		7				wash.		-	
					ŀ	- 9 -	ပ်	SS	12	12	19	┡		5-5 at oit			
					-		1	ΙE		12							
	Grayish brown san	dy SILT, some cla	ay, trace f	fine gravel (wet)		- 10 -	9	ss	10	14	1			S-6 at 10f	1		
	[IILL]				ŀ	- · ·				60/2	1		60/2	•			
					-												
					-	- 12 -	1										
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					ŀ	- 13 -	1										
						- 14 -											
							1							1			
	Grayish brown CLA	AY, some silt, son	ne f-c sar	nd, trace fine	ŀ	- 15 -		F		10	1			Drilled to	5.0ft.	Grayish	50
	gravel (wet) [TILL]				ŀ	- 16	ļ.,	s	2	10		20-	/	S-7 at 15f	an. Rig t	y chatteri	ng.
					ŀ	- 01	ن	S		18	'	40 °					
612.0						- 17 -	1	<u> E</u>		17				Einist	hillin -	at 0.57	M ~~
	End of boring at 17	<i>"</i>			ŀ	- '' -	1							5/10/2021	. Borir	at 9:57 A ng backfi	-livi on lled
					ŀ	- 18 -	1							with soil c	uttings	and ber	ntonite
					ļ		1							pellets upo	n con	pietion.	
2 dia						- 19 -	1										
					-		1										
=						- 20 -	1	-						1			

LA	ΝΒΑ	A/		Log	of E	Boring		;	SLB	-33			Sheet	1	of	1
Project					Pr	oject No.										
	Proposed Commercia	al Campus at Field	ls Corner						1900	65201						
Location					Ele	evation a	nd Da	atum								
Drilling Com	Southeast, New York	<u>(</u>				to Starte	d		Appr	ox el 6	32 (ur	1knov	wn datum - Sl	ESI Sui	rvey)	
Drining Com	Craig Costoshnical D						,u		5/	10/21		Date	s i moneu	5 /1	10/21	
Drilling Equip	oment	ming Co., inc.			Co	mpletior	1 Dep	th	5/	10/21		Roc	k Depth	5/1	0/21	
	CME 75 ATV-mounte	ed Ria				•				17 ft					N.E.	
Size and Typ	e of Bit				Ni	imber of	Sam	nles	Distu	irbed		U	Indisturbed	C	ore	
Casing Diam	3-7/8in Tricone Rolle	r Bit		asing Depth (ft)			Cum		First		7		Completion	- 24	1 HR	-
	4			4 doining Dioptin (iti)	W	ater Leve	el (ft.)		∇		4		Ţ		<u>V</u>	-
Casing Ham	^{mer} Automatic	Weight (Ibs)	140	Drop (in) 30	Dr	illing For	remar	l								
Sampler	2" OD Split Spoon	_		1		old Engin		Pa	aul M	ullins						
Sampler Han	nmer Outota	Weight (lbs)	4.40	Drop (in)	1-16	ela Engir	ieer	_		_		•	4			
	Safety		140					R	odrigo San	o ⊢ern nple Da	andez ata	San	toyo			
	ι.	Sampla Deser	intion			Depth	er	Ð	× ·	i tri E	N-V	alue	F	₹emar	ks	
(ft)		Sample Descr	iption			Scale	- Aumt	Typ	Rec (i)	Pene resi: BL/6	(Blov	vs/ft)	(Drilling FI Fluid Loss, D	rilling Re	esistance, e], etc.)
	Gravish brown san	dv SILT. some cla	v (moist)	[ML]		- 0 -	-			1	10 20	30 40	Started dr	illing af	t 8:51 AN	1 on
≥		,	,			_	1_			. 1			5/10/202			
43 1						- 1 -	- ò	SS	5	2 3	۱ ۲		5-1 81 011			
	0					_	-			5						
	Grayish brown silty	/ f-m SAND, trace	clay (moi	ist) [SM]		<u> </u>	-	ΤĒ		5	$\langle $		S-2 at 2ft			
						F a	- N		6	5						
						- 3 -	ļώ	is E	₩	6						
	.0				$\overline{\nabla}$	Ė,	-			8						
	Grayish brown clay	/ey SILT, some f-c	sand (we	et) [ML]	-	- 4	-			5			Drove cas	ing to 4	4.0ft. Dril	led to
						- 5 -	- - -	ls E	4	4	.		S-3 at 4ft	yisii biy	JWII Wasi	1.
						ĘŰ	-lo	ľĒ		5	~		q _u =1.00 ts	sf		
	.0					E 6 -	1			4			C 4 at 6ft			
	Grayish brown silty	CLAY, trace f-m	sand (we	t) [CL]		Ē	1			8			g_=1.25 ts	sf		
						- 7 -	14	ss	4	7	12		14			
						E]"	E		5						
	0 Gravish brown claw	VAV SILT some f-c	eand tra	ce fine gravel		- 8 -	-	+		5			Drilled to	8 Oft C	- Fravish br	own
	(wet) [TILL]	ey ole 1, some 1-c	, sanu, uz	de line graver		-	-			18	'		wash.	5.010. C	July 1011 DI	
z						- 9 -	S-5	SS	20	14	3	1	S-5 at 8ft			
						-	-			16						
	Gravish brown siltv	، CLAY. some f-c	sand. trac	ce fine gravel		- 10 -	-	ΗĒ		18			S-6 at 10	ť		
	(wet) [TILL]	,	,	Ū.			1.0	LE		19						
						- 11 -	-0	SS	78	21		40				
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G 617.	• <u> </u>					É 15 -	1						Duillest	15 04	Crowish	
	Gray clayey silt, so	me t-c sand, trace	e t-c grave	ei (wet) [TILL]		Ē	1	ΙE		8			brown wa	io.utt. sh. Ric	orayısn دhatterir	ıg.
						- 16 -	17	ss	ω	11		40	S-7 at 15	ť		5
						E]"	ΙĒ		29						
615.	.0					÷ 17 -		<u> E</u>		21			Finished	drilling	at 9·20 ∆	Mon
	End of boring at 17	-				F	1						5/10/2022	. Borir	ig backfill	ed
						- 18 -	-						with soil o	uttings	and bent	tonite
<u>o</u>						È	1						penets up	JUCOIT	ιρισιισΠ.	
GAN						- 19 -	-									
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	1					<u> </u>	1	1					1			

L	A	Nb/	4 <i>N</i>		Log	of E	Boring		:	SLB	-34			Shee	t ·	1	of	2
Project						Pro	oject No.											
		Proposed Commerci	ial Campus at Field	ds Corner		_				1900	65201							
Location	1		1-			Ele	evation a	nd Da	atum	A		04 (050			
Drilling (Compa	Southeast, New Yorl	k			Da	ite Starte	d		Appr	ox el 6	64 (un	knov Date	/n datur Finisheo	n - SES 1	si Su	rvey)	
Diming	oompo	Craig Geotechnical [Drilling Co Inc					, a			5/6/21		Duto	1 mienie		5	/6/21	
Drilling E	Equipn	nent	Brinning Co., into.			Co	mpletior	n Dep	th		5/0/21		Rock	Depth		0	10/21	
		CME 75 ATV-mount	ted Rig							_	22 ft						N.E.	
Size and	I Туре	of Bit	or Dit			Nu	mber of	Sam	ples	Distu	urbed	0	Ur	ndisturbe	ed	С	ore	
Casing [Diame	ter (in)		С	asing Depth (ft) 4	Wa	ater Leve	el (ft.)		First		<u> </u>	Co	ompletio	- n -	24	4 HR.	-
Casing H	lamm		Weight (Ibs)	140	Drop (in) 30	Dri	illing For	emar	٦	<u> </u>				<u>.</u>			<u> </u>	
Sampler				140	50				P	aul M	lullins							
Sampler	Hami	2 OD Split Spoon	Weight (Ibs)		Drop (in)	Fie	eld Engir	leer	_		_		_					
	T	Safety		140	30			—	R	odrig Sar	o Ferna nole Da	andez	Sant	буо				
BOL	Elev.			intin n			Depth	ē	0	> J	날 풍 드	N-Va	lue		Re	emar	ks	
SYM	(ft)		Sample Descr	iption			Scale	qun	Type	(in)	Pene resis 3L/6i	(Blow	/s/ft)	(Dri Fluid I	lling Fluic _oss, Dril	l, Dep ling R	th of Casin esistance,	ig, etc.)
	+664.0	Brown f-m SAND	some silt (moist) [SMI			_ 0 -				17	10 20	30 40	Star	ted drill	ing a	t 9:26 Al	VI on
				owij			-	1			21			5/6/2	2021.	5		
	1						- 1 -		SS	9	43		64	S-1	at Oft			
							-	1	ΙĒ		15							
	1	Brown f-c SAND, s	some silt, trace coa	arse grav	el (moist) [SM]		- 2 -	+			15			S-2	at 2ft			
			,	0			_				18							
							- 3 -	1	SS	∞	14	33	2					
	1						- -]			18							
		Brown silty f-c SAI	ND, trace coarse g	ravel, tra	ce clay (moist)		- 4 -	+	ΤĒ		40			Drov	/e casin	ig to	4.0ft. Dr	illed to
		[SM]	-		,		Ē	1			48			4.0ft	t. ot 4ft			
							- 5 -	- S	SS	18	30		78	0-5	al 411			
	0.50 0					∇	E]	ΙE		19							
	038.0	Grayish brown sar	ndy SILT, trace clay	y (wet) [N		- <u>-</u> ¥	E 6 -	-	ΤĒ		14			S-4	at 6ft			
								4		.	16							
							E / -	ļγ	l si	12	14	30						
	+656.0						-	4			13		$ \rangle $					
\Box		Grayish brown silt	y f-c SAND, some	f-c grave	l, trace clay (wet)		- ° -	-			6			Drill	ed to 8.	Oft. C	Grayish b	orown
		[SM]					E o -	- - - -	s	-	24			S-5	at 8ft			
	•						9	- 0	S		20		1					
	- 654.0						E 10 -	-			19							
		Grayish brown sar	ndy SILT, some cla	ay, trace f	-c gravel (moist)		È '	1			16			5-6	at 10ft			
EXH.							E - 11 -	9	SS	<u>s</u>	26		60	Ļ				
							È ''	- s	ľ		34							
							- - 12 -	1			55							
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<u> Harrison (h. 19</u>								-										
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		Crowish brown	du CII T trace at	v trac-f	o group (wet)		- 15 -	1	┝┍					Drill	ed to 15	5 Oft	Gravieh	
		Grayisn brown sar	iuy SILI, trace cla	y, trace f-	c gravel (wet)		E	1	ss	2	17			brow	vn wash	1. Ric	chatteri	ng.
HALL.		[]					- 16 -	<u></u>	Ľ		33 50/2		50/2	S-7	at 15ft			-
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Proposed Commercial Campus at Fields Corner Bendfor and Data Mountain Stress Southward, New York Bendfor and Data Complete Description Deem of Southward, New York Image: Southward, New York Deem of Southward, New York Deem of Southward, New York Promote Southward, New York Image: Southward, New York Sample Description Deem of Southward, New York Promote Southward, New York Image: Southward, New York Sample Description Deem of Southward, New York Promote Southward, New York Image: Southward, New York Sample Description Deem of Southward, New York Promote Southward, New York Image: Southward, New York Sample Description Deem of Southward, New York Promote Southward, New York Image: Southward, New York Sample Description Deem of Southward, New York Promote Southward, New York Image: Southward, New York Sample Description Deem of Southward, New York Promote Southward, New York Image: Southward, New York Sample Description Deem of Southward, New York Promote Southward, New York Image: Southward, New York Sample Description Deem of Southward, New York Promote Southward, New York Image: Southward, New York Sample Description Deem of Southward, New York Promote Southward, New York Image: Southward, New York Sample	Project			Project No.						
Southeast. New York Approx of 654 (unknow dutum - SESI Survey) Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel Image: Display the brown diagey SULT, some f-c sand, trade f-c gravel	Location	1	Proposed Commercial Campus at Fields Corner	Elevation and D	190065201 Datum	1				
Base Competence Sample Description Sample Description Sample Description Sample Description Sample Description Remarks Competence			Southeast, New York		Approx el 6	64 (unknov	vn datum	- SESI S	urvey)	
Bigs Find all backson Bigs	۲. ۲				Sample Da	ata		Domo	rko	
Crayteh prown dayey SUT. some f-c sand, trace f-c gravel (web) (TLL) 20 30 30 422 21 30 30 30 422 22 22 30 30 422 22 22 30 30 423 22 22 30 30 44 23 24 30 30 44 24 24 30 30 44 44 44 44 44	MATERI	Elev. (ft) +644.0	Sample Description	Depth Scale	Type Recov. (in) Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	(Drillin Fluid Lo	ng Fluid, De ss, Drilling I	nts pth of Casing Resistance, e	g, etc.)
(weig) (ILL) 21 37 35 32 201 Finished duling at 10:27 AM 5.5 32 5.5 32 5.5 32 3.5 End of boring at 22' 22 23 5.5 5.5 3.5 5.5 3.5 5.5 3.5 5.5 3.5 5.5 3.5 5.5 3.5 5.5 3.5 5.5 3.5 5.5 3.5 5.5 3.5 5.5 3.5 5.5 3.5 5.5 3.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 <t< th=""><th></th><th></th><th>Gravish brown clayey SILT, some f-c sand, trace f-c gravel</th><th>= 20 =</th><th>36</th><th></th><th>Drilleo</th><th>to 20.0ft</th><th>. Grayish</th><th>a</th></t<>			Gravish brown clayey SILT, some f-c sand, trace f-c gravel	= 20 =	36		Drilleo	to 20.0ft	. Grayish	a
22 22 0.0 Frished dilling at 10.27 AM 23 23 23 1 1 24 23 24 1 1 24 25 26 1 1 28 26 1 1 1 28 29 1 1 1 29 30 1 1 1 31 1 1 1 1 33 33 1 1 1 34 35 36 1 1 38 39 39 1 1 1 34 1 1 1 1 1 44 1 1 1 1 1			(wet) [TILL]	21 – 21 – w	ο ο ο ο ο ο ο ο ο ο ο ο ο ο	53	3 S-8 at	20ft	g chattern	ıy.
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				23			with s	oil cutting s upon co	s and ben mpletion.	tonite
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27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44				26 -						
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29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 44				28						
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 44										
				- 29 -						
31 32 33 34 35 36 37 38 39 40 41 42 43 44 44				- 30 -						
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				- 32 -						
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35 36 37 38 39 40 41 42 43 44 44				- 34 -						
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				- 36 -						
				- 37 -						
				- 39 -						
				40 -						
				41						
				42 -						
				- 43 -						
				44 -						

APPENDIX D

Logs of Test Pits



Pro	posed	Commercial Campus at Fields Corner	PROJEC	INUMBE	۲ ,	19006	5201	DATE	04/12/2021
DCATION	ı utheas	t New York	ELEVATI	ON		Δnnr	ovel65	1 (unknown d	atum - SESI Report)
CAVATI		NTRACTOR	DEPTH			- , , , , , , , , , , , , , , , , , , ,	WATER	LEVEL - First	WATER LEVEL - Comp
		acting	FOREMA	N	14 1	it		4 ft LANGAN PEF	A ft _
Kob	pelco S	SK 140 SR LC Excavator			Chuck	k Gall	agher		Gopal Goswami
				Donth	SAN	VIPLE			
ymbol	(feet)	DESCRIPTION		Scale	Numbe	Type		REI	MARKS
<u>17</u>	+651.0	Brown Silty f-c SAND, some clay, some roots (moist) [TOPSOIL	-] -	- 0 -			Start te	est pit at 12:05 l	^D M on 04/12/21.
<u>1 1</u>			E						
<u>. 17</u>			F	1	+_	B			
<u>, , i</u> j	+640 5		F		, v	GR/			
	+049.5	Gray brown Clayey f-c SAND, some silt, trace f-c gravel (moist)	Ē						
		[SC]	F	2					
			F		- ~	AB			
			E		- v	GR			
			F	3					
$\langle \rangle \rangle$			F		1				
	+647.0	Grav brown Clavey f a SAND, some silt, some gravel with grav f		4	-		Wator (soonago obsori	rod at 4 ft
		black BOULDERS (3" to 12") (moist) [SC]	F		-		Start of	Boulder laver.	eu al 4 11.
			E				Small b	oulders remov	ed easily.
			F	5					
			F		- m	AB			
			Ę		S S	GR			
			F	6					
			F		-				
			þ		1				
			Ŀ	7					
			F		-				
//			Ę		-				
		Passing $#200 = 47\%$	E	8					
		LL = 22, PL = 15, Pl = 7	F		-				
		wc = 13.5%	F		12	В			
			E	9		GRA			
			╞						
			F	40	-				
	+641.0	Tannish brown Silty CLAY, some f-c sand, trace f-c gravel. trace	et	10			Hard ex	xcavation.	
		boulders (wet) [TILL]	F						
			F		-				
			þ	11	1				
			ŀ						
			F	10	-				
			F	12	-	~ ~			
<u>III</u>			E		S-4	RAE			
			ŀ	12	-	G			
			Ę	13	1				
KA.			E						
			F	14	-				
	+037.0	End of test pit at 14ft	+	14			End tes	st pit at 12:40 F	M on 04/12/21.
			F		1		Backfill	ed with excava	ted material.
			╞	45	-				
		— • • • /		- 15 -		-			

					. Г	-2					
Project	NAME	Commercial Campus at Fields Corner	PROJEC	T NUMBE	R	19006	65201	DATE	04/12/2021		
	1 1	Annu Varia	ELEVATI								
SOL EXCAVAT	ICN COM	I, NEW YOIK	DEPTH			Appr	OX. el 646	(unknown da	atum - SESI Report)		
CG	Contr	acting			13 1	ft		<u>- </u>			
EQUIPMEN Kot	NT Delco S	SK 140 SR LC Excavator	FOREMA	N	Chucl	< Gall	agher	LANGAN PER	SONNEL Gopal Goswami		
					SAI	NPLE					
≩ymbol	ELEV (feet)	DESCRIPTION		Depth Scale	Number	Type		REN	IARKS		
<u></u>	+646.0	Brown Silty f-c SAND, some clay, some roots, trace gravel (moi	st) –	- 0 -	-	В	Start test	: pit at 11:10 A	M on 04/12/21.		
		[TOPSOIL]	F		- <u>-</u>	BRA					
<u> </u>	+645.0 -			1	-						
		Grayish brown f-c Sandy CLAY, some silt, trace f-c gravel (mois	st)		- ~	AB					
		[30]	L		- v	GR/					
[]]			F	2	 		1				
//			þ		-						
///			F								
			F	3	_						
//			F		_						
			F		-						
			F	4							
///			E								
	+644.0		-	5	1						
	±041.0	Gray brown Sandy CLAY, some silt, trace f-c gravel with small (3" -	5	-	В	Start of c	nall boulder layer.			
		to 8") angular to rounded grayish blue to purple COBBLES (mo [SC]	st)	_	S-3)RA	Easy excavation.				
			Εe	6	1						
				~							
			F		-						
			Ę	7	-						
			F								
			F								
			F	8	-						
			þ		-						
			F								
			F	9							
			F		-						
			F	40	-						
	+636.0	Tannish brown Silty f-c SAND, some clay, trace coarse gravel w	/ith	10	-	~	1				
<i>M</i> A		few boulders, trace decomposed rock (moist) [TILL]	F		- S	RAE					
			F	11	1	0					
			F		-						
			F		-						
			þ	12	1	<u> </u>	1				
			F		- - -	ΔB					
H)			F			GR					
SILL.	+633.0	End of toot nit at 13ft		13	+		End toot	nit at 11.20 A	M on 04/12/21		
		Enu ontest pit at 151t.	F		-		Linu test No water	pit at 11:30 Al	erved.		
			F				Backfilled	d with excavat	ed material.		
			╞	14	_						
			F		-						
			F		-	1					
			- F		-						

PROJECT	NAME	Commorpial Compute at Fields Correct	PROJE	CT NUMBE	R	10000	5201	DATE	04/40/0004		
	posed	Commercial Campus at Fields Corner	ELEVA	TION		19006	05201	04/12/2021			
SOI EXCAVAT	utheas	t, New York	DEPTH	1		Appr	OX. el 659	(unknown dat	um - SESI Report)		
				40 N	14 1	ft		7 ft ⊻	☐ 7 ft ▼		
Kol	belco S	SK 140 SR LC Excavator	FUKE		Chucl	k Gall	agher		Gopal Goswami		
Symbol	ELEV (feet)	DESCRIPTION		Depth Scale	SAM	Type Type		REM	ARKS		
<u>x 14 · x 14 · x</u> <u>x · x · 14 · x</u> <u>x · 16 · x · 16 ·</u>	+659.0	Brown Silty f-c SAND, some clay, some roots (moist) [TOPSOI	L]	0 -		GRAB	Start test	t pit at 9:45 AM	on 04/12/21.		
	+658.0 -	Grayish brown f-c SAND, some clay, some silt, trace f-c gravel (moist) [SC]		- 1 - - - 2	S-2	GRAB					
				- 3							
				- 5 							
	+651.0 -		Ţ	- 7	- - - -		Water se	epage observe	d at 7 ft.		
		Gray brown Silty CLAY, some f-c sand, trace f-c gravel with trac small to large (3" to 24") flat to rounded grayish blue to purple BOULDERS (moist) [CL]	ce	- - - - 9	S-3	GRAB	Start of b Difficult e when bou	Start of boulder layer. Difficult excavation through boulders, easi when boulders removed.			
				- - - - -	-						
				- 11 -	4-0	RAB					
				- 12 - 12		σ					
				- 13 13	-						
	+645.0 -	End of test pit at 14ft.		- 14 - 14 -	-		End test Backfilled	pit at 10:10 AM d with excavated	l on 04/12/21. d material.		
				Γ	1	1					

		LUG OF TES		<u> 11 I</u>		P	-4		Sneet 1 of 1
PROJECT	NAME	Commercial Campus at Fields Corner	PROJE	ECT NUMB	ER	1	9006	5201	DATE 04/12/2021
LOCATIO	N		ELEVA	TION					
EXCAVAT	TION CO	NTRACTOR	DEPTH	1			Appr	WATER LEV	UNKNOWN datum - SESI Report) VEL - First WATER LEVEL - Completion
CG	G Cont	racting				12 f	t		<u>6 ft </u>
EQUIPME Kol	belco \$	SK 140 SR LC Excavator	FOREM	ΛΑΝ	CI	huck	Galla	agher	LANGAN PERSONNEL Gopal Goswami
		1				SAM	IPLE	0	I
Symbol	ELEV (feet)	DESCRIPTION		Depth Scale	ן 1	mber	ype		REMARKS
A 1/2 - 5 1/2				— o -	_	Ň	-	<u></u>	
1,	+035.0	Brown Silty f-c SAND, trace clay, some roots (moist) [TOPSOIL	-]	F		÷	AB	Start test	pit at 10:30 AM on 04/12/21.
<u>. 16 . 16</u>						ώ	GR		
11	+634.0	Gravish brown f-c Sandy CLAY some silt trace f-c gravel (mois	st)	- 1	+				
		[SC]	51)	F	-	-5	βAB		
				F	-	0	5		
				- 2	+				
				3	-				
				F	-				
				-	-				
				4					
				_					
				L	_				
				- 5	-				
				F	-				
			-		-				
			Ţ	- 6				Water see	epage observed at 6 ft.
					_				
				- 7	-				
				F '	-				
				-	-				
44	+627.0			- 8	1				
		Gray brown f-c Sandy CLAY, some silt, trace f-c gravel with sm	all DC			33	B	Start of bo	oulder layer.
		(wet) [SC]	RO	L	_	Ϋ́	GRV	Smail bou	iders. Removed easily.
				- 9	+				
				F	-				
				-					
	+625.0	Tannish brown Silty f-c SAND, some clay, trace f-c gravel with		- 10	+			Hard exca	avation.
		small to medium (3" to 12"), rounded grayish blue to purple		L		S-4	RAE		
		BOULDERS (moist to wet) [TILL]		- 11	-	•,	G		
				F ''	-				
				F	-				
	+623.0			12	1				
		End of test pit at 12ft.		F				End test p	bit at 11:00 AM on 04/12/21.
				F	_			Dackfilled	with excavated material.
				- 13	-				
				F	-				
				F.					
				14					
				F					
				-	-				
		GAN		- 15 -					

				11 L	. 1 P	-5		1	Olicel	1 01	
PROJECT Pro	NAME	Commercial Campus at Fields Corner	PROJEC	TNUMB	ĒR	19006	65201	DATE	04	1/12/202	21
LOCATION	N N	t New York									
EXCAVAT	TON CO	NTRACTOR	DEPTH			Аррі	WATER LE	VEL - First	WATER L	EVEL - Co	omplet
		racting	FOREM		14	ft				7 ft	_
Kobelco SK 140 SR LC Excavator			FOREIVIA	AN	Chuc	k Gall	agher		Gopal	Goswan	ni
ymbol	ELEV (feet)	DESCRIPTION		Depth Scale	SA Inmber	MPLE ad. L		REM	IARKS		
	ELEV (feet) +650.0 +649.0 +644.0	DESCRIPTION Brown Silty f-c SAND, some clay, some roots (moist) [TOPSOI Brown to light gray f-c Sandy CLAY, some silt, trace f-c gravel (moist) [SC] Gray to greenish brown Silty CLAY, some f-c sand, trace f-c gr with small to large (3" to 18"), flat and rounded grayish blue to purple BOULDERS (moist to wet) [CL]		Depth Scale - 0 - 1 2 3 4 5 6 7 8 9 10	S-4 S-4 S-2 S-1 Number	GRAB GRAB GRAB Type	Start test Start of b Water set Difficult e Easy exca	REM pit at 9:12 AM oulder layer. epage observe avation when a avation.	IARKS	/21. ers. emoved.	
				12 13							
	+636.0	End of test pit at 14ft.		14			End test p Backfilled	bit at 9:35 AM I with excavate	on 04/12/ ed material	21.	
			1	15							

			<u> </u>	11 L		P	-6	Sheet 1 01 1		
PROJECT	NAME	Commercial Campus at Fields Corner	PROJE	CT NUMB	ER	1	9006	65201 DATE 04/12/2021		
LOCATION	Ithear	t New York	ELEVATION							
EXCAVAT	ION CO	NTRACTOR	DEPTH	1			Appr	WATER LEVEL - First WATER LEVEL - Completic		
CG	Cont	racting	FORE	44.51		15 f	t	8 ft V 8 ft V		
Kok	belco	SK 140 SR LC Excavator			C	huck	Gall	agher Gopal Goswami		
				Donth		SAN	IPLE			
Symbol	(feet)	DESCRIPTION		Scale		admu	ype	REMARKS		
× 14. × 14.	+645.0	Proven Silty f a SAND, some alow some roots (maint) ITOPSO		- 0 -	-	ž	-	Start toot pit at 9:00 AM op 04/12/21		
1/. 1/, 1	. 040.0	BIOWH Silly I-C SAND, Some Clay, Some Tools (molst) [TOPSO	L	F	-	7	RAB			
<u>, 16</u> . <u>16</u> .					-	0)	ß			
1/2 . 1/2 2					-					
11/1	+643.5	Brown to light gray f-c Sandy CLAY some silt trace coarse gra	avel	F	-					
		trace boulders (moist) [CL]		2	-	2-2	RAE			
				-			Ū			
				-						
				- 3						
				-						
				4						
				-						
				-						
				- 5						
				6						
					_					
11	+638.0	Brown to light grav for Sandy CLAX some silt trace coarse gr		- 7	+			Start of boulder laver. Removed easily		
		trace small to large light gray boulders (3" to 22") (moist) [CL]	avoi,			с, С	RAB			
	+637.0		V	- 8	-		G			
	.001.0	Brown Silty f-c SAND, some f-c gravel, trace clay, trace boulde	ers –					Water seepage observed at 8 ft.		
		(moist to wet) [IILL]		L						
				- 9						
				E	_					
				[10	-					
					-			Hard excavation.		
				F	-					
				- 11	-					
				F	-					
				[12	-					
					-					
				F	-					
				- 13	-					
				F	-					
				11	-					
					-					
				F	-					
61814	+630.0	End of toot nit at 15th		- 15	1					
		End of test pit at 1511.		F	-			End test pit at 9:05 AM on 04/12/21. Backfilled with excavated material.		
				Ē	-					
	\ A /	FAN		- 16 -						
	L / V									

		LUG UF IES		<u> 11 L</u>	-	Ρ-	1	Sheet I OI		
ROJECT Pro	NAME	Commercial Campus at Fields Corner	PROJE	CT NUMBE	ER	1	9006	65201 DATE 04/13/2021		
	l Ithoac	t Now York	ELEVA	TION			A			
	Itneas	I, NEW YORK	DEPTH				Appr	Irox. el 633 (unknown datum - SESI Report		
CG Contracting EQUIPMENT Kobelco SK 140 SR LC Excavator					1;	13 ft		- <u></u>		
			FOREN	IAN	Chu	ıck	Gall	llagher LANGAN PERSONNEL Gopal Goswam		
		1			s	SAM	PLE			
mbol	ELEV (feet)	DESCRIPTION		Depth Scale	Mundor	Number	Type	REMARKS		
<u>, 1, 1</u>	+633.0	Brown Sandy SILT, some clay, trace f-c gravel (moist) [TOPSO	IL]	0 	- - 0	<u>ہ</u>	GRAB	Start test pit at 8:35 AM on 04/13/2021		
	+632.0	Tannish gray Silty f-c SAND, some f-c gravel, trace clay, trace small boulders (moist) [SM]		- 1 - - - - 2	- c - v	0-2	GRAB	-		
				- - - 3 -						
				4 5						
				- - - 6 -						
	+625.0			- - 7 - - - - 8						
	1023.0	Tannish gray Silty f-c SAND, some f-c gravel, trace clay with sn to large angular to rounded bluish gray to purple BOULDERS (moist) [SM] Passing #200 = 38%	nall	- 0 - - - 9	- c - v	n h	GRAB	Start of boulder layer. Hard excavation around boulders only.		
	+623.0	wc = 11.1%		- - - - 10	- 7 - 7	BULA-1	GRAB			
	. 020.0	Tannish gray Clayey f-c SAND, some silt, trace f-c gravel, trace boulders (moist) [SC]		- - - -	- v - v	0 4	GRAB	Hard excavation.		
				- 11 - - - - - - - -						
	+620.0	End of test pit at 13 ft.		- 13 				End test pit at 8:53 AM on 04/13/2021. No water seepage observed. Backfilled with excavated material.		
		GAN		- - - 15 -	-					
		LOG OF TES	<u>5T F</u>	<u>PIT L'</u>	TP	-8	Sheet 1 of 1			
---------------------------------------------	-------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------	--------------------------------------	---------	---------------	-------------------------------------------------------------------------------	--	--	--
PROJECT Pro	^r NAME D posed	Commercial Campus at Fields Corner	PROJE	CT NUMBER	2	19006	65201 DATE 04/13/2021			
	N utheas	t, New York	ELEVA	TION		Appr	rox. el 671 (unknown datum - SFSI Report)			
EXCAVAT		NTRACTOR acting	DEPTH		12 1	<u>, 1991</u>	WATER LEVEL - First WATER LEVEL - Completion			
EQUIPME	NT belco S		FOREM	IAN						
NU		SN 140 SN LC EXcavator			SAN	(Gail IPLE				
Symbol	ELEV (feet)	DESCRIPTION		Depth Scale	Type		REMARKS			
1 PM Report Log - LANGANIP	+670.0 -	Brown Silty I-c SAND, trace clay, trace I-c gravel (moist), some roots [TOPSOIL] Light brown to Tannish brown Silty f-c SAND, trace f-c gravel, t clay (moist) [SM]	race		S-2 S-1	GRAB GRAB	Start test pit at 7:40 AM on 04/13/2021			
35/190065201 TEST PITS.GPJ 6///2021 3:02:42	+665.0 •	Light brown to tannish gray Silty f-c SAND, some f-c gravel with small to large (3" to 24") rounded bluish gray BOULDERS (moi wet) [SM]	h st to ⊻		S-3	GRAB	Start of boulder layer. Hard excavation around boulders only.			
EOTECHNICALIGINILO		Passing #200 = 35% wc = 12.0%		- 9 -	BULK-1	GRAB	water seepage observed at 8 ft.			
	+661.0	Tannish gray SILT, some clay, some f-c Sand, some f-c gravel (wet) [TILL]		- 10 - - 11 - 	S-4	GRAB	Hard excavation.			
	+659.0	End of test pit at 12ft.					End test pit at 8:05 AM on 04/13/2021. Backfilled with excavated material.			
		GAN								

LOG OF TEST PIT LTP-9 Sheet of 1 1 PROJECT NAME PROJECT NUMBER DATE Proposed Commercial Campus at Fields Corner 190065201 04/13/2021 LOCATION ELEVATION Southeast, New York Approx. el 650 (unknown datum - SESI Report) EXCAVATION CONTRACTOR DEPTH WATER LEVEL - First WATER LEVEL - Completion CG Contracting 13 ft 7 ft 7 ft EQUIPMENT FOREMAN LANGAN PERSONNEL Kobelco SK 140 SR LC Excavator Gopal Goswami Chuck Gallagher SAMPLE Depth Symbol ELEV DESCRIPTION Number REMARKS Type Scale <u>***</u>+650.0 0 Brown Silty f-c SAND, some roots, trace f-c gravel, trace clay Start test pit at 9:35 AM on 07/13/2021. GRAB (moist) [TOPSOIL] ٩. ۲ <u>17 - 16</u> 1 +649.0 Tannish gray to brown Silty f-c SAND, some f-c gravel, trace clay GRAB S-2 (moist) [SM] 2 Report: Log - LANGANTP 3 4 3:02:47 PM 5 645 (6/7/2021 Tannish gray to brown Silty f-c SAND, some f-c gravel, trace clay Start of boulder layer. GRAB with small to large (3" to 24") angular to rounded bluish gray S-3 Hard excavation around boulder only. BOULDERS (moist) [SM] TEST PITS.GPJ 6 V 7 +643.0 Tannish gray Silty CLAY, some f-c sand, trace f-c gravel, trace Water seepage observed at 7 ft. 190065201 GRAB boulders (wet) [CL] S-4 8 TECHNICAL/GINTLOGS/ 9 Hard excavation. 10 11 DATA/ БÜЧ 12 Cad \LANGAN.COM\DATA\WPW\DATA2\190065201 uuu 13 +637.0 End of test pit at 13 ft. End test pit at 9:55 AM on 07/13/2021. Backfilled with excavated material. 14 15 LANGAN

	ame osed	Commercial Campus at Fields Corper	PROJE					
LOCATION South	-				n,	19006	5201	04/13/2021
	heas	t, New York	ELEVA	TION	_	Appr	ox. el 679	(unknown datum - SESI Report)
	N COI	ntractor acting	DEPTH		13	ft	WATER LE	VEL - First WATER LEVEL - Completion
		SK 140 SR I C Excavator	FOREM	AN	Chuc	k Galle	adher	
				Dert	SAI	MPLE	-9.19	
Symbol El (fr	LEV feet)	DESCRIPTION		Depth Scale	Number	Type		REMARKS
<u>+6</u> <u>1/2 <u>1</u><u>1</u><u>1</u><u>1</u><u>1</u><u>1</u><u>1</u><u>1</u><u>1</u><u>1</u><u>1</u><u>1</u><u>1</u><u></u></u>	679.0	Brown Sandy SILT, some clay, some roots, trace f-c gravel (mo [TOPSOIL]	oist)	- - - - - 1	S-1	GRAB	Start test	pit at 7:10 AM on 04/13/2021.
+6	677.5 ·	Light brown Silty f-c SAND, trace clay, trace f-c gravel (moist) [SM]	- - - 2 -	S-2	GRAB		
				- - - - -	-			
				- 4 -	-			
+6	573.0 ·			- 5 - - - - 6	-			
		Light brown Silty f-c SAND, some silt, trace f-c gravel with sma bluish gray to purple layered BOULDERS (moist to wet) [SM]	" ▼	- - - - 7	S-3	GRAB	Start of s Water se	mall boulder layer. Not hard to remove
				- - - - 8 -				
+6	670.0 ·	Tannish brown Sandy CLAY, some silt, trace f-c gravel, trace s boulders (moist to wet) [CL]	mall	- - - - -	S-4	GRAB		
				- 10 -				
				- - 11 -	-			
				- - 12 - -				
+6	66.0 -	End of test pit at 13ft.		- 13 - 13 -			End test Backfilled	pit at 7:40 AM on 04/13/2021. d with excavated material.
				- - 14 - - - - 15 —	- - - -			

			PPOI		 -					
Pro	posed	Commercial Campus at Fields Corner	PROJE		к ,	19006	5201	04/13/2021		
SATION	utheas	t, New York	ELEVA	TION		Appro	ox. el 649 (unknown datum - SESI Report)		
	ION COI	ntractor racting	DEPTH		131	 ft	WATER LEV	/EL - First WATER LEVEL - Comp		
	NT NT	SK 140 SR I C Excavator	FOREM	IAN	Chuel	Colle	anher			
					SAN	APLE	agrici	Copa Coswann		
nbol	ELEV (feet)	DESCRIPTION		Depth Scale	Number	Type		REMARKS		
· <u>··</u> ·································	+649.0	Brown to light brown Sandy SILT, some clay, trace f-c gravel w roots (moist) [TOPSOIL]	ith	- 1		GRAB	Start test	pit on 04/13/2021		
	+647.5	Light brown Silty f-c SAND, trace f-c gravel, trace clay (moist)	SM]	- 2	S-2	GRAB				
				- 3	- - - -					
	+644.0	Brown Silty for SAND, trace day, trace angular to round small		- 4	-		Start of bo	nulders		
		large (3" to 24") reddish brown to gray BOULDERS (moist) [SI	V]	- 6	- S- - S- 	GRAB	Very few b	boulders. Easy excavation.		
				- 7 - 7	-					
				- 8	-					
				- 9	-					
				_ 10 _	-					
				- 11 -						
				- 12						
•	+636.0	End of test pit at 13ft.		- 13 - - - 14	-		End test p No water s Backfilled	it at 11:05 AM on 24/13/2021. seepage observed. with excavated material.		
				_ ·	-					

		LUG UF TES			<u> P</u>	-12		DATE	Sheel I OI I	
		Commercial Campus at Fields Corner	PROJEC	CI NUMBE	R	19006	65201	DATE	04/13/2021	
LOCATIO	N utboor	t New York	ELEVAT	ION		A:	-1.000			
EXCAVAT	ION CO	ST, INEW YORK	DEPTH			Appi	OX. EL 690	DX. El 090 (UNKNOWN datum - SESI Report) WATER LEVEL - First WATER LEVEL - Comple		
CG	G Cont	racting			13	ft		<u>- </u>	- ¥	
	NT belco	SK 140 SR I C Excavator	FOREM	AN	Chuc	k Gall	agher	LANGAN PERS	SONNEL Gopal Goswami	
					SA	MPLE				
Symbol	ELEV (feet)	DESCRIPTION		Depth	ber	be		REM	IARKS	
	. ,			0	Nu	Ļ				
<u>× /,</u> . <u>. //</u>	+690.0	Brown to light brown Silty f-c SAND, trace f-c gravel, ttrace clay	/	. 0	-	m	Start test	pit at 10:05 A	M on 04/13/2021	
		(moist) [TOPSOIL]	F	-	- <u>-</u>	RA				
· <u>···</u> ·····	+689.0			. 1						
		Tannish gray Clayey f-c SAND, some silt, trace f-c gravel with		-		g	Start of b	oulder layer.		
		small to very large (3" to 30") bluish gray BOULDERS (moist) [sc]	-	- 6	GRA	Very hard	d excavating. ulder (3" to 30'	")	
				2	-).	
				-	_					
			-	-	-					
				3	1					
				-		BB				
			ŀ		- 0	GR/				
				4						
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			Ē	-	-					
			ŀ	6	-					
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				. 7	_					
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				8						
			-	-	-					
					7					
				. 9	1					
			E							
			-	10	-					
	+680.0	Tannish gray Silty f-c SAND, some f-c gravel, trace clay (moist)	. 10	-	m				
		(TILL)		-	- S	RAI				
			ŀ	. 11		0				
			-		-					
			F	-	-					
				. 12						
			ŀ		-					
			F	-	-					
	+677.0			13	1					
		End of test pit at 13ft.	E	-	-		End test	pit at 10:20 AN	M on 04/13/2021.	
			ŀ	-	-		Backfiller	seepage obse with excavate	a veu. ed material	
			F	- 14	-					
			F	-	-					
			ŀ	-	_					
		<u> </u>		— 15 —						
	N	bAN								

		LOG OF TES	ΤP	IT L1	[P-	<u>13</u>		Sheet 1 of 1
PROJECT Pro	NAME	Commercial Campus at Fields Corner	PROJE	CT NUMBEF	۲	19006	5201	ATE 04/13/2021
	v utheas	t New York	ELEVA	TION		Δηρι	OX el 6/15 (un	known datum - SESI Penort)
EXCAVAT	TON CON	ITRACTOR	DEPTH			Аррі	WATER LEVEL	- First WATER LEVEL - Complet
		acting	FOREM	IAN	12 f	t	7	<u>ft ⊻ 7 ft ▼</u> ANGAN PERSONNEL
Kol	belco S	SK 140 SR LC Excavator		(Chuck	Gall	agher	Gopal Goswami
Symbol	ELEV (feet)	DESCRIPTION		Depth Scale	Aumber 2	Type		REMARKS
<u>x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2</u> <u>1/ - x 1/2}</u> <u>1/ - x 1/2}</u>	+645.0	Brown to light brown Silty f-c SAND, some clay, trace f-c grave some roots (moist) [TOPSOIL]	I,	0 1 	°-	GRAB	Start test pit	at 2:05 PM on 04/13/2021.
	+643.0 +642.0 +	Light brown Silty f-c SAND, some clay, trace f-c gravel (moist)	[SM]	- 2 -	S-2	GRAB		
		Light brown Silty f-c SAND, some clay, trace f-c gravel with sm large (3" to 32") rounded dark gray to reddish brown BOULDEF (moist) [SM]	all to RS		S-3	GRAB	Start of sma Hard excava	II to large boulders. ting around boulders.
				- 5 -	-			
	+637.0 ·		Ţ	- 7 -			Water seepa	age observed at 7 ft.
		Tan CLAY, some silt, some f-m sand, trace f-c gravel (wet) [CL LL = 23, PL = 15, Pl = 8 wc = 14.6%	-]	 - 9 -	S-4	GRAB	Hard excava	tion.
				 - 10 -	BULK-1	GRAB		
				- 11 - - 11 -	-			
	+633.0 ·	End test pit at 12ft.		- 12 - - 12 - 	-		End test pit a Backfilled wi	at 2:25 PM on 04/13/2021. th excavated material.
				- 13 - - 14 -				
LA		GAN		- 15	1			

DECT NAME PROJE Proposed Commercial Campus at Fields Corner PROJE ATION ELEVA Southeast, New York DEPTH AVATION CONTRACTOR DEPTH CG Contracting DEPTH IPMENT FOREM Kobelco SK 140 SR LC Excavator FOREM Mbol ELEV (feet) DESCRIPTION Main Brown Silty f-c SAND, some clay, trace f-c gravel, some roots (moist) [TOPSOIL] Immunolity Heast of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the	CT NUMBER TION MAN C Depth Scale 0 	12 f Chuck SAN - C-O	Appr it Gall PLE BAY B B CKAB	DATE 04/13/2021 rox. el 688 (unknown datum - SESI Report) WATER LEVEL - First WATER LEVEL - First WATER LEVEL - Comple - agher Gopal Goswami REMARKS Start test pit at 12:30 PM on 04/13/2021
ATION ELEVA Southeast, New York ELEVA AVATION CONTRACTOR DEPTH CG Contracting FOREM IPMENT FOREM Kobelco SK 140 SR LC Excavator FOREM Mbol ELEV (feet) DESCRIPTION Model Brown Silty f-c SAND, some clay, trace f-c gravel, some roots (moist) [TOPSOIL] Model Brown Silty f-c SAND, some f-c gravel, trace clay, trace roots (moist) [SM] Brown Silty f-c SAND, some f-c gravel, trace clay with cobbles and large (12" to 24") rounded bluish gray to reddish brown BOULDERS (moist) [SM]	TION TAN C Depth Scale 0	12 f Chuck saw	Appr it Gall MPLE BAYB BYBB	rox. el 688 (unknown datum - SESI Report) WATER LEVEL - First
Southeast, New York DEPTH CG Contracting DEPTH IPMENT FOREM Kobelco SK 140 SR LC Excavator FOREM Ibol ELEV (feet) DESCRIPTION **** +688.0 Brown Silty f-c SAND, some clay, trace f-c gravel, some roots (moist) [TOPSOIL] (moist) **** +687.0 Brown Silty f-c SAND, some f-c gravel, trace clay, trace roots (moist) [SM] Brown Silty f-c SAND, some f-c gravel, trace clay, trace roots (moist) [SM] **** Brown Silty f-c SAND, some f-c gravel, trace clay with cobbles and large (12" to 24") rounded bluish gray to reddish brown BOULDERS (moist) [SM] Foremain	AAN C Depth Scale 0 - 0 - 1 - 1 	12 f Chuck SAN - C-O	Appr t Gall MPLE BAXE BAXE BAXE BAXE BAXE BAXE BAXE BAX	rox. el 688 (unknown datum - SESI Report) WATER LEVEL - First - V lagher REMARKS Start test pit at 12:30 PM on 04/13/2021
CG Contracting FOREW JIPMENT FOREW Kobelco SK 140 SR LC Excavator FOREW Inbol ELEV (feet) DESCRIPTION Mail +688.0 Brown Silty f-c SAND, some clay, trace f-c gravel, some roots (moist) [TOPSOIL] Heat Brown Silty f-c SAND, some f-c gravel, trace clay, trace roots (moist) [SM] Brown Silty f-c SAND, some f-c gravel, trace clay with cobbles and large (12" to 24") rounded bluish gray to reddish brown BOULDERS (moist) [SM]	AAN C Depth Scale 0	12 f Chuck SAN Pogumy C-C-O	t Gall PPLE 044 CKAB CKAB	agher - V IANGAN PERSONNEL Gopal Goswami REMARKS Start test pit at 12:30 PM on 04/13/2021
Information FOREM Kobelco SK 140 SR LC Excavator DESCRIPTION Mode ELEV (feet) DESCRIPTION Mode Brown Silty f-c SAND, some clay, trace f-c gravel, some roots (moist) [TOPSOIL] Brown Silty f-c SAND, some f-c gravel, trace clay, trace roots (moist) [SM] Heat Brown Silty f-c SAND, some f-c gravel, trace clay with cobbles and large (12" to 24") rounded bluish gray to reddish brown BOULDERS (moist) [SM]	Depth C Depth Scale 0 - 1 - 2 - 2 - 3 - 3 - 4 -	SAN Bangara San San San San San San San San San Sa	Gall GRAB GRAB Type	agher Gopal Goswami REMARKS Start test pit at 12:30 PM on 04/13/2021
Bits DESCRIPTION Imbol ELEV (feet) Brown Silty f-c SAND, some clay, trace f-c gravel, some roots (moist) [TOPSOIL] Image: Hear of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco	Depth Scale	NW S-2 S-2 S-1 Number S	GRAB GRAB Type a	REMARKS Start test pit at 12:30 PM on 04/13/2021
Inbol ELEV (feet) DESCRIPTION Image: Construction of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	Deptn Scale 0 1 2 2 2 2 3 3 3 3 4	-3 S-2 S-1 Number	GRAB GRAB Type	REMARKS Start test pit at 12:30 PM on 04/13/2021
**** +688.0 Brown Silty f-c SAND, some clay, trace f-c gravel, some roots (moist) [TOPSOIL] **** **** Brown Silty f-c SAND, some f-c gravel, trace clay, trace roots (moist) [SM] **** ***** Brown Silty f-c SAND, some f-c gravel, trace clay, trace roots (moist) [SM] ****** ************************************		.3 S-2 S-1	GRAB GRAB	Start test pit at 12:30 PM on 04/13/2021
 (moist) [TOPSOIL] Hear Hear II Hear II		-3 S-2 S-1	GRAB GRA	
+687.0 Brown Silty f-c SAND, some f-c gravel, trace clay, trace roots (moist) [SM] +685.0 Brown Silty f-c SAND, some f-c gravel, trace clay with cobbles and large (12" to 24") rounded bluish gray to reddish brown BOULDERS (moist) [SM]		3 S-2	GRAB (
Brown Silty f-c SAND, some f-c gravel, trace clay, trace roots (moist) [SM] +685.0 Brown Silty f-c SAND, some f-c gravel, trace clay with cobbles and large (12" to 24") rounded bluish gray to reddish brown BOULDERS (moist) [SM]		3 S-2	GRAB	
 Holdy [CM] Holdy [CM] Holdy [CM] Brown Silty f-c SAND, some f-c gravel, trace clay with cobbles and large (12" to 24") rounded bluish gray to reddish brown BOULDERS (moist) [SM] 	- 2 -	- vi	GR	
 ^{+685.0} Brown Silty f-c SAND, some f-c gravel, trace clay with cobbles and large (12" to 24") rounded bluish gray to reddish brown BOULDERS (moist) [SM] 	- 2 -			-
 ^{+685.0} Brown Silty f-c SAND, some f-c gravel, trace clay with cobbles and large (12" to 24") rounded bluish gray to reddish brown BOULDERS (moist) [SM] 	- 3 - - 3 - 	- - -		
Brown Silty f-c SAND, some f-c gravel, trace clay with cobbles and large (12" to 24") rounded bluish gray to reddish brown BOULDERS (moist) [SM]	- 3 -	e e		
Brown Silty f-c SAND, some f-c gravel, trace clay with cobbles and large (12" to 24") rounded bluish gray to reddish brown BOULDERS (moist) [SM]	- 3 - - 4 -	e e		
large (12" to 24") rounded bluish gray to reddish brown BOULDERS (moist) [SM]	 - 4 -	10	в	Start of boulder.
	- 4 -	ن ا	BRA	Large boulders. Hard excavation.
481 I				-
	- 5 -			
		-		
	- 0 -			
	- 7 -			
	- 8 -			
	- 9 -			
++++++++++++++++++++++++++++++++++++++	- 10 -			-
Tan Silty f-c SAND, some clay, trace f-c gravel (moist) [TILL]		4	AB	
		ပ်	GR	
	- 11 -			
		-		
End test pit at 12ft.		-		End test pit at 1:00 PM on 04/13/2021.
]		No water seepage observed. Backfilled with excavated material
	- 13 -	1		
		1		
		1		
	- 14 - 	1		
		1		
	15			

						P-	15		
PROJECT		Commercial Campus at Fields Corner	PROJE		seR	1	9006	5201	04/13/2021
	u uthea	st. New York	ELEVA	TION			Annr	ox el 684 (un	known datum - SESI Report)
EXCAVAT	ION CC	NTRACTOR	DEPTH	ł			<u>, ibbi</u>	WATER LEVEL	- First WATER LEVEL - Completion
		racung	FORE	/AN		13 f	t	8 	<u>TT ↓ 8 ft ↓</u> ANGAN PERSONNEL
Koł	pelco	SK 140 SR LC Excavator			C	huck	Gall	agher	Gopal Goswami
Symbol	ELEV (feet)	DESCRIPTION		Depti Scale	h Ə	Number	Type		REMARKS
<u>x 1/2</u> 1/ <u>x 1/2</u> <u>x 1/2</u> <u>x 1/2</u> <u>x 1/2</u> <u>x 1/2</u> <u>x 1/2</u> <u>x 1/2</u>	+684.0	Brown Silty f-m SAND, some clay, trace f-c gravel, with roots (moist) [TOPSOIL]		- 0 - - - - - - - 1	-	- - -	GRAB	Start test pit	at 1:05 PM on 04/13/2021
	+682.5	Brown Silty f-c SAND, some clay, trace f-c gravel (moist) [SM]		- - - 2 -	-	S-2	GRAB		
				- 3 - 3 -	-				
	+679.0			- 4 - - - - 5	-				
		Brown Silty f-c SAND, some f-c gravel, trace clay with small to large (3" to 20") angular to rounded dark gray and bluish gray BOULDERS (moist) [SM]		- - - - 6	-	ς Υ Υ	GRAB	Start boulde Large boulde	r layer. er encountered.
				- - - 7 -	-				
			Ţ	- - 8 -	-			Water seepa	age observed at 8 ft.
				- 9 - -	-				
	+674.0	Tan Silty SAND, trace clay, trace f-c gravel (moist) [TILL]		- 10 - - - - 11	-	S-4	GRAB		
				- - - - - - - - - - - - - - - - - - -					
	+671.0	End test pit at 13ft.		- 13 - 13 	-			End test pit a Backfilled wi	at 1:24 PM on 04/13/2021. ith excavated material.
	\	FAN		- - - - - 15 -	-				

		LOG OF TES	T Pl	TL	<u>.</u> T	<u>'P-</u> '	<u>16</u>		Sheet 1 of 1
PROJECT NA Propc	AME osed	Commercial Campus at Fields Corner	PROJE	CT NUME	BER	1	9006	5201	DATE 04/13/2021
OCATION South	heas	t, New York	ELEVA	FION			Appr	ox. el 659	(unknown datum - SESI Report)
	N CON	ntractor	DEPTH			13 f	t	WATER LE	EVEL - First WATER LEVEL - Complet
		SK 140 SP I C Excavator	FOREM	AN	<u> </u>	buck	Coll	aghor	
						SAN	IPLE	agnei	Gopar Goswanni
ymbol ^{EL} (fe	LEV feet)	DESCRIPTION		Depti Scale	h Ə	Number	Type		REMARKS
$\frac{\frac{1}{2}}{\frac{\sqrt{1}}{2}} \cdot \frac{\sqrt{1}}{\sqrt{1}} + 65$	359.0	Brown Silty f-c SAND, some clay, trace f-c gravel, some roots (moist) [TOPSOIL]	-		-	S-1	GRAB	Start test	pit at 1:35 PM on 04/13/2021
+65	658.0 ·	Brown Silty f-c SAND, trace clay, trace f-c gravel (moist) [SM]		- 1 - - - 2		S-2	GRAB		
+65	656.0 ·	Brown Silty f-c SAND, some clay, tracec f-c gravel with small to large (3" to 30") angular to round bluish gray BOULDERS (mois [SM]	o st)	- 3 - 3 		S-3	GRAB	Start of b Small to t through b	oulder layer. medium boulders. Hard excavation boulders.
			-	- - - 5 - -					
			-	- 6 - - - - 7					
			-	- - - 8 -					
			-	- - 9 - -					
+64	349.0 ·	Tan f-c Sandy CLAY, some silt, trace f-c gravel, trace boulders (wet) [TILL]	Y	- 10 - - - - 11		S-4	GRAB	Hard exc Water se	avation. epage observed at 10 ft.
			-	- - - - - 12					
+64	646.0	End test pit at 13ft.	-	- - - - 13				End test	pit at 1:55 PM on 04/13/2021.
		·	-	- - - 14 -				Backfilled	d with excavated material.
			-	-	-				
	A/	GAN	1						

		LOG OF TES	ΓΡΙ	<u>T L</u>	TP-	17	Sheet 1 of 1
PROJECT Pro	NAME	Commercial Campus at Fields Corner	PROJE	CT NUMBE	R	19006	04/13/2021
OCATION	v Itheas	t New York	ELEVAT	ION		Ann	nov el 654 (unknown datum SESI Doport)
XCAVAT	ION CON	NTRACTOR	DEPTH			Аррі	WATER LEVEL - First WATER LEVEL - Compl
		acting	FOREM	ΔΝ	12	ft	
Koł	oelco S	SK 140 SR LC Excavator			Chuc	k Gall	llagher Gopal Goswami
ymbol	ELEV (feet)	DESCRIPTION		Depth Scale	SAI	MPLE ed. L	REMARKS
<u>1,</u>	+654.0	Brown Sandy SILT some f-c gravel trace clay, some roots (mo	iet)	— 0 —	z	·	Start test pit at 7:45 AM on 04/13/2021
<u></u>		[TOPSOIL]		- 1	- - - - - - - - - - - - - - - - - - -	GRAB	
	+652.5 -	Tannish gray Silty f-c SAND, trace clay, trace f-c gravel, trace ro (moist) [SM]	oots	- 2	S-2	GRAB	_
				- 3	-		
			- - - - - - - - - - - - - 	5			
	+647.0 -	Tannish gray Silty f-c SAND, some clay, trace f-c gravel with sn (3" to 8") angular to rounded purple to light brown BOULDERS (moist) [SM]	 nall _ -	- 7	S-3	GRAB	Start of boulder layer. Hard excavation around boulders only.
	+645.0 -	Tannish gray f-c Sandy CLAY, some silt, some f-c gravel, trace boulders (moist) [TILL]	- - - - - - - - - - - - - - - - - - -	- 8	S-4	GRAB	-
				10			
<u>E</u>	+642.0 -	End test pit at 12ft.		- 12 - 13	- - - - -		End of test pit at 8:25 AM on 04/13/2021. No water seepage observed. Backfilled with excavated material.
			-	- 14			
		FAN	-	- 15	-		

		LOG OF TES	ΤΡ	IT LT	'P-	18		Sheet 1 of 1
PROJECT	NAME	Commercial Campus at Fields Corner	PROJE	CT NUMBEF	؛ 1	19006	5201	DATE 04/13/2021
LOCATION	l Ithoos		ELEVA	TION		Annr		
EXCAVAT	ION CO	NTRACTOR	DEPTH			Аррі	WATER L	EVEL - First WATER LEVEL - Completion
EQUIPME	Conti NT	acting	FOREM	IAN	13 f	t		9 ft V 9 ft V LANGAN PERSONNEL
Kot	belco S	SK 140 SR LC Excavator		C	Chuck	Gall	agher	Gopal Goswami
Symbol	ELEV (feet)	DESCRIPTION		Depth Scale	Number	Type		REMARKS
	+666.0 +665.0	Brown to light brown Silty f-c SAND, some clay, trace f-c grave some roots (moist) [TOPSOIL] Tannish gray Silty f-c SAND, some clay, trace f-c gravel, trace roots (moist) [SM]	I,		S-2 S-1	GRAB GRAB	Start tes	it pit at 9:05 AM on 04/13/2021
	+663.0	Tannish gray Silty f-c SAND, some clay, trace f-c gravel with si to medium (3" to 18") angular to rounded purple to bluish gray BOULDERS (moist) [SM]	 mall	- 2 - - 3 - 	- - - - - - - - - - - - - - - - - - -	GRAB	Start of I Hard exc	boulder layer. cavation due to frequent boulders.
				- 5 -				
	+657.0	Tannish gray Sandy CLAY, trace f-c gravel, some silt (wet) [TIL	_	- 7 - - 8 - - 9 -	S-4	GRAB	Loose ea Water se	xcavation. eepage observed at 9 ft.
				- 10 - - 11 - 				
	+653.0	End test pit at 13ft.		- 13 - - 13 - 			End test Backfille	pit at 9:25 AM on 04/13/2021. d with excavated material.
LA		GAN		 15				

		LOG OF TES	ΓΡ		ΓP-	19		Sheet 1 of 1
PROJECT	NAME	Commercial Campus at Fields Corner	PROJE	CT NUMBE	R	19006	65201	DATE 04/13/2021
LOCATION	, vitheas	t New York	ELEVA	TION		Appr	ov. el 681 ((unknown datum SESI Penort)
EXCAVAT	ION CO	NTRACTOR	DEPTH				WATER LEV	VEL - First WATER LEVEL - Completion
EQUIPME		acting	FOREM	IAN	12 1	It		8 ft V 8 ft V
Kol	belco S	SK 140 SR LC Excavator		(Chuc	< Gall	agher	Gopal Goswami
Symbol	ELEV (feet)	DESCRIPTION		Depth Scale	Number	Type		REMARKS
<u>x 1, x 1,</u> 1/ <u>x 1, x</u> 1/ <u>x 1, x</u>	+681.0	Brown Silty f-c SAND, trace f-c gravel, trace clay, with roots (m. [TOPSOIL]	oist)	0		GRAB	Start test	pit at 10:30 AM on 04/13/2021
	+680.0	Light brown Silty f-c SAND, some f-c gravel, trace clay (moist) [SM]		-			
	+679.0	Tannish gray to brownish gray Sandy CLAY, some silt, trace f-c gravel (moist to wet) [CL]	;	- 2	S-3	GRAB		
				- 3	-			
				- 4 	-			
	+676.0	Tannish gray to brownish gray Sandy CLAY, some silt, trace f-c gravel with small to large (3" to 24") reddish brown to black ang to rounded BOULDERS (moist to wet) [CL]	ular	- 5	S-3	GRAB	Start of bo Hard exca	oulder layer. avation around boulder only.
				- 0	-			
			Ţ	- 8	-			
				- - - - 9	-		Water see	epage observed at 8 ft.
	+671.0			- 10	-			
		Gray Silty f-c SAND, some clay, trace f-c gravel (wet) [TILL]		- - - - 11	S-4	GRAB	Hard exca	avation.
	+669.0			- - - - 12				
	-	End test pit at 12ft.		- - - - 13	-		End test p Backfilled	vit at 10:45 AM on 04/13/2021. with excavated material.
				- - - - 1/	-			
					-			
LA	N	GAN	1	15			-	

		LOG OF TES	ΓΡ	<u>IT L</u>	ΓP	-2	20		Sheet 1 of 1	
PROJECT Pro	NAME	Commercial Campus at Fields Corner	PROJE	CT NUMBE	R	19	9006	5201	DATE 04/12/2021	
LOCATION	ہ utheas	t, New York	ELEVA	TION		A	Appr	ox. el 645	(unknown datum - SESI Report)	
EXCAVAT	ION CO	NTRACTOR acting	DEPTH	ł	12	, ft	••	WATER LE	EVEL - First WATER LEVEL - Completion 7 ft ∇ 7 ft ▼	
EQUIPME	NT NT	SK 140 SP I C Excavator	FORE	IAN			Call	abor		
					SAMPLE			agnei	Gopai Goswanni	
Symbol	ELEV (feet)	DESCRIPTION		Depth Scale	Number		Type	REMARKS		
<u>x 1</u> 1/ . <u>x 1</u>	+645.0	Brown Silty f-c SAND, some clay, some roots (moist) [TOPSOI	L]	- 0 			GRAB	Start test	t pit at 12:50 PM on 04/12/21.	
		Gray brown f-c SAND, some clay, some silt, trace f-c gravel (m [SM]	oist)	- - - - 2	S-2	,	GRAB			
				- - - 3 -						
				- - - - -						
	+640.0	Gray brown f-c Sandy CLAY, some silt, trace f-c gravel with sm to medium grayish blue to purple (3" to 12") BOULDERS (mois [CL]	nall t)	- 5 - - - 6	S-3	>	GRAB	Start of E Hard exc Easy exc	Boulder layer. avation through boulders. avation once boulders are removed.	
			Ţ	- - - 7 - -				Water se	epage observed at 7 ft.	
				- 8	-					
				- 9 - -						
	+635.0	Tannish brown Silty CLAY, some f-c sand, trace f-c gravel, trac boulders (wet) [TILL]	e	- 10 - - -	- 8 - 4 - 4		GRAB			
				⊢ 11 - - -	-					
\$ <i>7725\$</i> 77	+633.0	End of test pit at 12ft.		– 12 –	-			End test Backfilled	pit at 1:20 PM on 04/12/21. d with excavated material.	
				- 13 - -						
				- 14 - -						
LA		GAN		L 15 —						

APPENDIX E

Select Photographs of Test Pits

LANGAN



Photo 1: View of test pit LTP-1



Photo 2: Alternate view of test pit LTP-1



Photo 1: View of test pit LTP-2



Photo 2: Excavated material from test pit LTP-2



Photo 1: View of test pit LTP-3



Photo 2: Excavated material from LTP-3



Photo 1: Profile view of test pit LTP-4



Photo 2: Excavated material from test pit LTP-4



Photo 1: Profile view of test pit LTP-5



Photo 2: Excavated material from test pit LTP-5



Photo 1: Profile view of test pit LTP-6



Photo 2: Excavated material from test pit LTP-6



Photo 1: Profile view of test pit LTP-7



Photo 2: Excavated material from test pit LTP-7



Photo 1: View of test pit LTP-8



Photo 2: Profile view of test pit LTP-8



Photo 1: View of test pit LTP-9



Photo 2: Alternate view of test pit LTP-9





Photo 1: View of test pit LTP-10



Photo 2: Alternate view of test pit LTP-10





Photo 1: View of test pit LTP-11



Photo 1: Alternate view of test pit LTP-11



Photo 1: View of test pit LTP-12



Photo 2: Profile view of test pit LTP-12



Test Pit LTP-13

Photo 1: View of test pit LTP-13



Photo 2: Excavated material from LTP-13



Photo 1: View of test pit LTP-14



Photo 2: Excavated material from test pit LTP-14





Photo 1: View of test pit LTP-15



Photo 2: Excavated material from LTP-15



Photo 1: View of test pit LTP-16



Photo 2: Excavated material from LTP-16



Photo 1: View of test pit LTP-17



Photo 2: Alternate view of test pit LTP-17

Test Pit LTP-18



Photo 1: Profile view of test pit LTP-18



Photo 2: Alternate view of test pit LTP-18





Photo 1: View of test pit LTP-19



Photo 2: Excavated material from LTP-19





Photo 1: View of test pit LTP-20



Photo 2: Alternate view of test pit LTP-20

APPENDIX F

2021 Langan Laboratory Testing Results

LANGAN

Langan Engineering #190065201 LEG Brewster LABORATORY TESTING DATA SUMMARY

BORING	SAMPLE	DEPTH	IDENTIFICATION TESTS							REMARKS
			WATER	LIQUID	PLASTIC	PLAS.	USCS	SIEVE	ORGANIC	
NO.	NO.		CONTENT	LIMIT	LIMIT	INDEX	SYMB.	MINUS	CONTENT	
							(1)	NO. 200	(burnoff)	
		(ft)	(%)	(-)	(-)	(-)		(%)	(%)	
AB-1	S-4	6-8	14.5				CL	56		
AB-2	S-2	2-4	14.4						1.1	
AB-2	S-8	20-22	9.3	22	14	8	CL			
BB-1	S-5	8-10	12.6				SC	42		
BB-3	S-6	10-12	12.7	19	13	6	SC-SM	47		
BB-5	S-1	0-2	20.4						2.4	
BB-5	S-2	2-4	11.7						1.1	
BB-5	S-5	8-10	12.7	20	15	5	SC-SM	43		
BB-7	S-5	8-10	12.6				SC	44		
SLB-2	S-1	0-2	37.4						6.6	
SLB-4	S-1	0-2	21.4						2.0	
SLB-4	S-5	8-10	14.0				SC	49		
SLB-5	S-3	4-6	12.8				SC	49.9		
SLB-7	S-6	10-12	13.3	21	14	7	SC-SM	46		
SLB-8	S-5	8-10	13.1	20	13	7	SC-SM	46		
SLB-9	S-3	4-6	12.3				SC	42		
SLB-10	S-3	4-6	13.1				SC	48	0.7	
SLB-11	S-5	8-10	11.9	22	15	7	CL-ML			
SLB-21	S-4	6-8	14.7	25	15	10	CL	60.6		
SLB-22	S-7	15-17	14.2	25	14	11	CL			
SLB-28	S-2	2-4	12.2				SC	45	1.0	
SLB-29	S-3	4-6	13.3				CL	50		
SLB-30	S-2	2-4	14.8	18	17	1	SM	41		

Note: (1) USCS symbol based on visual observation and Sieve and Atterberg limits reported.

TerraSense, LLC 45H Commerce Way Totowa, NJ 07512
Langan Engineering #190065201 LEG Brewster LABORATORY TESTING DATA SUMMARY

BORING	SAMPLE	DEPTH		ID	ENTIFICA	CATION TESTS			COMPACTION			CBR			REMARKS
			WATER	LIQUID	PLASTIC	PLAS.	USCS	SIEVE				PREPA	RATION	CBR	
NO.	NO.		CONTENT	LIMIT	LIMIT	INDEX	SYMB.	MINUS	ASTM	OPT. WATER	MAX . DRY	WATER	DRY	@	
							(1)	NO. 200	STD.	CONTENT	UNIT WGT.	CONTENT	UNIT WGT.	0.1-inch	
			(%)	(-)	(-)	(-)		(%)		(%)	(pcf)	(%)	(pcf)	(-)	
LTP-1	Bulk-1	8-10	13.5	22	15	7	SC-SM	47				6.8	129.6	35.0	Exp. Index
LTP-2	Bulk-1	12-13							D1557B	7.7	135.2				
LTP-7	Bulk-1	9-10	11.1				SM	38				7.3	129.0	47.3	
LTP-8	Bulk-1	8-10	12.0				SM	35	D1557B	8.9	131.8				
LTP-13	Bulk-1	9-10	14.6	23	15	8	SC					7.1	129.2	33.2	Exp. Index

Note: (1) USCS symbol based on visual observation and Sieve and Atterberg limits reported.

TerraSense, LLC 45H Commerce Way Totowa, NJ 07512











	Ring #:	1	Ring Area:	81.07	cm ²	G:	2.7	(assumed)
Trial 1		Water	Content	Final			Readings	
Start Date	5/29/2021	Initial	Final	Excess		H0	HI	HF
	Tare#	757				0.000	1.000	1.000
	W+Tare	333.7						
	D+Tare	321 24						
	Toro	216.01						
		210.01			-			
	water content (%)	11.84			-			
571.92-583.76	Ring + Soil	654.34				Average	1.000	1.000
	Ring	198.68				Height	1.000	1.000
	Wet Wt.	455.66				Dial		
	Dry Wt.	407.4						
D	I otal Density (pcf)	138.14		i		0.1.1	07.7	
Dry	Density Density (pct)	123.52			_	Saturation	87.7	
				 .	Expa	nsion Index	EI ₅₀	
Trial 2	0///2025/	Water	Content	Final			Readings	
Start Date	6/1/2021	Initial	Final	Excess		HO	HI	HF
	l are#	X31	X31		-	0.000	1.000	1.026
		143.74	185.19					
	D+Tare	130.82	1/5./8		-			
	vater content (%)	6.80	50.49 6.76					
626 03 636 34	Ping + Soil	0.09 604 11	604 11			Average	1 000	1.026
020.93-030.34	Ring	108.68	108.68			Height	1.000	1.020
	Wet Wt	405.43	405.00			Dial	0.18	0.1537
	Dry Wt	379.3	379.8			Diai	0.10	0.1007
	Total Density (ncf)	122.91	119.76					
Drv	Density Density (pcf)	114 99	112 18			Saturation	40.0	36.3
,	(poi)			•	Expa	nsion Index	El ₅₀	26
Trial 4		Water	Content	Final			Readings	
Start Date	6/3/202	Initial	Final	Excess		H0	HI	HF
	Tare#	lb20	P4			0.000	1.000	0.998
	W+Tare	137.72	679.53					
	D+Tare	130.30	626.70	214.23				
	Tare	32.92	232.46	212.69				
	water content (%)	7.62	13.40					
617.53-627.42	Ring + Soil	624.44	647.50			Average	1.000	0.998
	Ring	198.68	198.68			Height	1.000	0.998
	Wet Wt.	425.76	448.82			Dial	0.199	0.2012
	Dry Wt.	395.6	395.8					
	Total Density (pcf)	129.08	136.37			0 1	F A -	66 <i>i</i>
Dry	Density Density (pcf)	119.94	120.25		_	Saturation	50.7	90.1
					Expa	nsion Index	EI ₅₀	-2
Potentia	I Expansion Clas	ssificatio	n by ASTM	D4829:	Ve	ry Low		
La	angan Engineering				Pot	ential Expan	nsion Clas	sification
Pi	roject # 190065201		I FG Bro	wstor		AST	M D4829	
· ·	TerraSense, LLC			113151	Во	ring: LTP-0	01 Sample	: Bulk 1
P	Project # 7920-130				De	pth: 8-10		

	Ring #:	1	Ring Area:	81.07	cm ²	G:	2.7	(assumed)
Trial 1		Water	Content	Final			Readings	
Start Date	5/29/2021	Initial	Final	Excess		H0	HI	HF
	Tare#	246				0.000	1.000	1.000
	W+Tare	330.57						
	D+Tare	316 66						
	Taro	216.29						
	1 are	12.06						i
554 40 500 00		13.00			-		4 000	4 000
554.43-566.83	Ring + Soli	642.46			-	Average	1.000	1.000
	Ring	198.08			-	Dial	1.000	1.000
	VVel VVI. Dry Wt	380.8				Diai		
	Total Density (ncf)	134 54						
Drv	Density Density (pcf)	118 17				Saturation	87 7	
Diy	Benoity Benoity (por)	110.17			Expa	nsion Index	EI50	<u>i</u>
Trial 2		Water	Content	Final	слра		Readings	
Start Date	6/1/2021	Initial	Final	Excess		H0	HI	HF
otart Buto	Tare#	lb10	I B10	EXCOUC		0.000	1 000	1 026
	W+Tare	144.97	152.90			0.000		
	D+Tare	135.75	143.26					
	Tare	33.21	33.02					
	water content (%)	8.99	8.74					
601.13-611.80	Ring + Soil	630.29	630.29			Average	1.000	1.026
	Ring	198.68	198.68			Height	1.000	1.026
	Wet Wt.	431.61	431.61			Dial	0.18	0.1537
	Dry Wt.	396.0	396.9					
	Total Density (pcf)	130.85	127.50					
Dry	Density Density (pcf)	120.06	117.24		_	Saturation	60.1	53.9
				<u> </u>	Expa	nsion Index	EI ₅₀	26
Trial 5		Water	Content	Final			Readings	
Start Date	6/5/2021 	Initial	Final	Excess		HO	HI	HF
	l are#	X1	S10			0.000	1.000	1.002
	vv+lare	158.15	569.36	010.0				
	D+Tale Tare	36.38	010.09 130.11	218.2				
	water content (%)	7 90	13.95	210.7				
613.98-624.05	Rina + Soil	616.74	630.29			Average	1.000	1.002
	Rina	198.68	198.68			Height	1.000	1.002
	Wet Wt.	418.06	431.61			Dial	0.12	0.1181
	Dry Wt.	387.4	378.8					
	Total Density (pcf)	126.74	130.60					
Dry	Density Density (pcf)	117.46	114.61			Saturation	49.1	80.0
					Expa	nsion Index	EI ₅₀	2
Potentia	I Expansion Clas	ssificatio	n by ASTM	D4829:	Ve	ry Low		
La	ngan Engineering				Pot	ential Expan	nsion Clas	sification
Pi	roject # 190065201		LEG Bre	wster		AST	M D4829	
	TerraSense, LLC				Во	ring: LTP-	13 Sample	: Bulk 1
P	roject # 7920-130				Section: -#	#4 Depth:	9-10	

APPENDIX G

Pavement Design Calculations

LANGAN

LIGHT DUTY (CAR PARKING)
ASPHALT PAVEMENT DESIGN REQUIREMENTS FOR
A CBR VALUE = 5

For a pavement design life of 20 Years, use the anticipated Traffic Data for Design

Anticipated Traffic Data

Anticipated Traffic Data for Pavement:

2,000 Vehicles/Day

Anticipated Traffic Breakdown for Pavement Areas: 2,000 Cars/day

<u>AASHTO Vehicle Factors:</u>

AASHTO Car Factor =

0.00209

FOR HEAVY DUTY PAVEMENT DESIGN AREAS

Equivalent Single Axle Loads (ESAL_{CARS}) = 1,200 Cars/Day x 365 Days/Year x 20 Years * 0.00209

ESAL _{CARS} = 30,514 Equivalent Single Axle Loads

ESAL _{TOTAL} = 30,514 Equivalent Single Axle Loads

LANGAN	PROJECT:	Proposed Commercial Campus a Light Duty (Car Parking)	t Fields Corner
	Southeast		New York
	Job #	190065201	
	Date:	6/4/2021	Sheet 1/3



LIGHT DUTY ASPHALT PAVEMENT DESIGN

Design Criteria :

		Design	Life =			20 Years					
		Termina Poliabili	I Servicea	bility =		2.5 90 percent					
		Initial Se	erviceabili	tv =		4.2	percent				
		Standar	d Deviatio	n =		0.45					
		CBR =				5					
		Equivale	ent Single	Axle Loads	6 =	3	0,514				
I	Estimate	Resilient Mo M _R =	odulus (M _R) (2,555) x (CE	3R ^{0.64})	=	7,157					
I	From the	AASHTO De	esign Chart, S	N _{Required} =		2.2 (See Sheet	2)				
I	Langan	Minimun	n Recomme	ended Paver	ment Section:						
-	Thickness Material						AASHTO Coe	efficient			
	1 1/2	inches	Bituminou	us Concrete	Surface Course	x	0.44	= _		0.66	
	2	inches	Bituminou	us Binder Co	ourse	x	0.44	= _		0.88	
		inches	Bituminou	ıs Base Cou	irse	x	0.4	=		0.00	
	6	inches	Dense Gra	aded Aggre	gate	x	0.11	= _		0.66	
							Recommen	ded SN=	2	2.20	
(Check	whether	the Recor	mmended \$	SN is greater tha	n or equal to	the Require	d SN			
	Red	commend	ed SN		Require	d SN	-	CHECK			
		2.20		× (2.2			ок			
				>/=							
	FULL-I										
	Bitumi	Conor	ato Surfaco Cr		+	4.4/0					
12030	Bituiiiii	lous concre				1 1/2	Inches				
	B	ituminous B	Sinder Course		+	2	Inches				
	B	ituminous E	Base Course								
						0	Inches				
		Dense Grad	ed Aggregate								
						6	Inches				
						PROJECT:	Proposed Co	mmercial Camp	us at Fi	elds Corner	
LA	N	GA	N				-	Light Du	ty		
								(Car Parki	ng)		
						Southeast	190065201			New York	
						Date: 0	6/4/2021			Sheet 3/3	

\\langan.com\data\par\data4\100722401\project data_discipline\geotechnical\analyses\pavement design\cbr=6\100722401 - car parking.xls

	HEAVY DUTY (MINOR ACCE ASPHALT PAVEMENT I A CBI	ESS DRIVES AND TRUCK COURTS) DESIGN REQUIREMENTS FOR R VALUE = 5	
Paveme	ent Design Requirements:		
	For a pavement design life of 20 Years, use the anticipa	ted Traffic Data for Design	
•	Anticipated Traffic Data		
	Anticipated Traffic Data for Pavement:	750 Vehicles/Day	
		Anticipated Traffic Breakdown for Pavement Areas: 250 Trucks/day	
	AASHTO Vehicle Factors:	500 Cars/day	
	Assuming 75 kips/Truck:	2 tandem axles (32 kips/axle) 1 front axle (12 kips/axle)	
	AASHTO Truck Factor = 2 * (0.875) + (0.189) =	1.94	
	AASHTO Car Factor =	0.00209	
•	FOR HEAVY DUTY PAVEMENT DESIGN AREA Equivalent Single Axle Loads (ESAL _{TRUCKS}) = 200 ESAL TRUCKS = 3,538,675 Equivalent Single Equivalent Single Axle Loads (ESAL _{CARS}) = 400 Ca ESAL CARS = 7,629 Equivalent Single ESAL TOTAL = 3,546,304 Equivalent Single	AS Trucks/Day x 365 Days/Year x 20 Years * 1.94 Axle Loads ars/Day x 365 Days/Year x 20 Years * 0.00209 Axle Loads Axle Loads	
L	ANGAN	PROJECT: Proposed Commercial Campus Heavy Duty (Minor Access Drives and Southeast Job # 190065201 Date: 6/4/2021	at Fields Corner Truck Courts) New York Sheet 1/3



HEAVY DUTY (MINOR ACCESS DRIVES AND TRUCK COURTS) ASPHALT PAVEMENT DESIGN

Design Criteria :

		Design	Life =			20	Years						
		Termina	al Servicea	ability =		2.5							
		Reliabili	ity =			90	percent						
		Initial So	erviceabili	ty =		4.2							
		Standar	d Deviatio	on =		0.45							
		CBR =		A		5							
		Equival	ent Single	Axie Loads	=	3,3	040,304	J					
Es	stimate	Resilient M M _R =	odulus (M _R) (2,555) x (C	BR ^{0.64})	=	7,157							
Fr	om the	AASHTO D	esign Chart, S	N _{Required} =		4.0 (See Sheet	t 2)						
La	angan	Minimun	n Recomm	ended Paven	nent Section:								
ті	hickne	ss	Material				AASHTO Coe	fficient					
2	2	inches	Bitumino	us Concrete	Surface Course	x	0.44	= _	0.88				
2	2	inches	Bitumino	us Binder Co	urse	x	0.44	= _	0.88				
3	3 1/2	inches	Bitumino	us Base Cou	rse	x	0.4	= _	1.40				
8	8	inches	Dense Gr	aded Aggreg	ate	x	0.11	= _	0.88				
							Recommend	led SN=	4.04				
С	heck	whether	the Reco	mmended S	N is greater the	an or equal to	the Require	d SN					
	Rec	commend	led SN		Require	ed SN	-	СНЕСК					
		4.04		[01					
		4.04		>/=	4.0)		UK					
				•			1						
51													
FI													
	Bitumir	ious Concr	ete Surface C	ourse	1	2	Inches						
	Bi	tuminous E	Binder Course	353									
						2	Inches						
	B	ituminous I	Base Course			2 4 /2	luches						
						3 1/2	incnes						
	l	Dense Grad	ed Aggregate										
						8	Inches						
					*	PROJECT:							
	A/	СЛ	A /				Proposed Cor	mmercial Camp	ous at Fields Corner				
LA	/V	UА	/V				(Minor Acc	Heavy Di	uty nd Truck Courte)				
						Southeast		535 DIIVES d					
						Job #	190065201						
						Date:	6/4/2021		Shoot 2/2				

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HEAVY DUT ASPHALT PAVEMEN A	TY (MAIN ACCESS DRIVE) NT DESIGN REQUIREMENTS FOR CBR VALUE = 5
Pavement Design Requirements:	
For a pavement design life of 20 Years, use the ant	icipated Traffic Data for Design
Anticipated Traffic Data	
Anticipated Traffic Data for Pavement:	4,000 Vehicles/Day
	Anticipated Traffic Breakdown for Pavement Areas: 510 Trucks/day 3 490 Care/day
AASHTO Vehicle Factors:	0,400 Gais/day
Assuming 75 kips/Truck:	2 tandem axles (32 kips/axle) 1 front axle (12 kips/axle)
AASHTO Truck Factor = 2 * (0.875) + (0.189)) = 1.94
AASHTO Car Factor =	0.00209
 FOR HEAVY DUTY PAVEMENT DESIGN A Equivalent Single Axle Loads (ESAL_{TRUCKS}) = ESAL TRUCKS = 7,218,897 Equivalent Si Equivalent Single Axle Loads (ESAL_{CARS}) = 1, ESAL _{CARS} = 53,247 Equivalent Si ESAL _{TOTAL} = 7,272,144 Equivalent Si 	REAS 500 Trucks/Day x 365 Days/Year x 20 Years * 1.94 ngle Axle Loads 200 Cars/Day x 365 Days/Year x 20 Years * 0.00209 ngle Axle Loads ngle Axle Loads
LANGAN	PROJECT: Proposed Commercial Campus at Fields Corner Heavy Duty (Main Access Drive) Southeast Job # 190065201 Date: 6/4/2021 Sheet 1/3



HEAVY DUTY (MAIN ACCESS DRIVE) ASPHALT PAVEMENT DESIGN

	• • •	
Docian	Critoria	
Design	Uniterna	

	Design	Life =			20	Years						
	Termina	al Servicea	ability =		2.5							
	Reliabil	ity =	•		90	percent						
	Initial S	erviceabil	ity =		4.2	•						
	Standar	d Deviatio	on =		0.45							
	CBR =				5							
	Equival	ent Single	Axle Loads	5 =	7,2	272,144						
Estimato	Positiont M	odulus (M.)										
Lotinate	M _R =	(2,555) x (C	BR ^{0.64})	=	7,157							
From the	AASHTO D	esign Chart, S	SN _{Required} =		4.5 (See Sheet	: 2)						
Langai	n Minimur	n Recomm	ended Paver	nent Section:								
Thickn	ess	Material				AASHTO C	oefficient					
2	inches	Bitumino	us Concrete	Surface Course	x	0.44	= _	0.88				
2 1/2	inches	Bitumino	us Binder Co	ourse	x	0.44	= _	1.10				
4	inches	Bitumino	us Base Cou	rse	x	0.4	= _	1.60				
10	inches	Dense Gr	aded Aggreo	jate	x	0.11	= _	1.10				
						Recomme	nded SN=	4.68				
Check	whethe	the Reco	mmended S	SN is greater that	n or equal to	the Requi	red SN					
Re	commend	led SN		Required	I SN		CHECK					
	4.00						ok					
	4.00		>/=	4.5			UK					
			•									
FULL-	DEPTH A	SPHALT P	AVEMENT									
Ritumi	inque Concr	oto Surfaco C	ourso	+								
Bitumi	inous Concr	ete Surface C	ourse		2	Inches						
Bitumi	inous Concr Bituminous E	ete Surface C Binder Course	course		2	Inches						
Bitumi	inous Concr Bituminous E	ete Surface C Binder Course	course		2 2 1/2	Inches Inches						
Bitumi	inous Concr Bituminous E Bituminous	ete Surface C Binder Course Base Course	iourse		2 2 1/2	Inches Inches						
Bitumi	inous Concr Bituminous E Bituminous	ete Surface C Binder Course Base Course	Sourse		2 2 1/2 4	Inches Inches Inches						
Bitumi	inous Concr Bituminous E Bituminous I	ete Surface C Binder Course Base Course	course		2 2 1/2 4	Inches Inches Inches						
Bitumi	inous Concr Bituminous E Bituminous Dense Grac	ete Surface C Binder Course Base Course led Aggregate			2 2 1/2 4	Inches Inches Inches						
Bitumi	inous Concr Bituminous E Bituminous I Dense Grac	ete Surface C Binder Course Base Course led Aggregate			2 2 1/2 4 10	Inches Inches Inches Inches						
Bitumi	inous Concr Bituminous E Bituminous I Dense Grac	ete Surface C Binder Course Base Course led Aggregate	bourse		2 2 1/2 4 10 PROJECT:	Inches Inches Inches Inches	Sommercial Com	nuo at Eioldo Corner				
	Bituminous B Bituminous I Dense Grac	ete Surface C Binder Course Base Course led Aggregate	Sourse		2 2 1/2 4 10 PROJECT:	Inches Inches Inches Inches Proposed C	Commercial Cam	pus at Fields Corner				
Bitumi	Bituminous B Bituminous D Dense Grac	ete Surface C Binder Course Base Course led Aggregate	Sourse		2 2 1/2 4 10 PROJECT:	Inches Inches Inches Inches Proposed C	Commercial Cam Heavy D	pus at Fields Corner uty s Drivo)				
Bitumi E E LAN	Bituminous B Bituminous D Dense Grac	ete Surface C Binder Course Base Course Red Aggregate			2 2 1/2 4 10 PROJECT:	Inches Inches Inches Inches Proposed C	Commercial Cam Heavy D (Main Acces	pus at Fields Corner uty s Drive)				
Bitumi	Bituminous B Bituminous I Dense Grac	ete Surface C Binder Course Base Course led Aggregate	Sourse		2 2 1/2 4 10 PROJECT: Southeast Job #	Inches Inches Inches Inches Proposed C	Commercial Cam Heavy D (Main Acces	pus at Fields Corner uty s Drive) New York				

Section 100

ATTACHMENT A

SESI Boring and Test Pit Logs, Location Plan and Lab Testing Results





	S	ES	SL		PF		NAME:	F	Propose	d Logisti	cs Cent	er	BORING NO.				SB-1
	00	NSULTI	NQ			LUC	FTUON:		Soun	Heast, Ne	Auson		JUB NO.		041-		50 OL
BORI		GINEEP	GBI		D	ATE ST	ARTED	3/23	/2018		Anda	GR			UN: DEDTU	0	50.0
INSPE	CTOR:		MZ		DATE COMPLETED:			3/23	/2018	0 Hr.	84	Date	3/23/18	24 Hr.	N/A	Dete	N/A
DEPTH		DEA	DEP	тн		Blown on Droom			VILLED 10 0111. 01 0000 3/25/18 24 TH, N/A				1000				
(ft)	SAMPLE	REC	FROM	то	1	Blows on Spoon		l	N	SOIL DESCRIPTION AND STRATIFICATION						N	Symb
0		(In)	(ft)	(ft)	0/8	6/12	12/18	18/24	(bl/ft)	1							USC
	S-1	87	0		2	3			5	18" To	psoil					T	-
				2			2	1									
	S-2	14 ⁿ	2		5	7			15	Light Br	own Cla	yey SILT	, little coars	e to fine Sa	id, trace (Gravel,	1
		_		4			8	7		with occ	asional (Cobbles					
5																	
	S-3	20*	5	_	11	8			20	Same						27	
	-			7	i i		12	9	1								
	S-4	12"	7		8	14			31	Same							[[
				9			17	20									
10																	
	S-5	20"	10		9	10			27	Same						5	
				12			17	20	i ti								
									(i								
16																	
	S-6	20"	15		28	38			81	Same							
				17			44	39									
20]													
	S-7	NR	20		29	53			93	No Reco	very						
		_		22			40	40									
					1 1						B	DRING (OMPLETE	2D AT 22± F	EET		
		_															
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Core Size	In	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod
Drop of Hammer on Drive Pipe	ln	engineers recommendations contained in the report from which these logs were extracted.
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Nominal I.D. of Hole	In	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.

Approximate Change in Strata: _____ Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

SESI						ROJECT	NAME:	F	Propose	d Logistics Center BORING NO.	5B-2				
						LOC	CATION:		South	east, New York JOB NO.	9999				
	EN	GINEEF	16	_	_	M	ETHOD:		Hollo	w Stem Auger GROUND ELEVATION: 6	63.0'				
BORI	NG BY:		GBI		D	ATE ST.	ARTED:	3/23	/2018	GROUNDWATER TABLE DEPTH					
INSP	ECTOR:		MZ	_	DATE	E COMP	LETED:	3/23	/2018	0 Hr. 10'± Date 3/23/18 24 Hr. N/A Date	N/A				
DEPTH (ft)	SAMPLE	REC	FROM	то		Blows on Spoon		1	N	SOIL DESCRIPTION AND STRATIFICATION					
0	NO.	(in)	(ft)	(ft)	0/6	6/12	12/18	18/24	(bl/ft)		USCS				
	S-1	8"	0		2	2			4	Tepsoil					
				2			2	6	i i						
	S-2	12"	2		10	14			64	Light Brown Clayey SILT, little coarse to fine Sand, trace					
			-	4	-	-	50/3"	-		Gravel, with occasional Cobbles	_				
5	6.0	1.48				-					-				
	8-3	14"	2	-	0	0		-	14	Same					
	S.4	19#	7		14	16	ő	У	25	Parma					
		19	- ' I	9	13	15	10	9	23	Same	-				
10				-	-		10	-	-						
-	8-5	6"	10	_	12	26			46	Same					
				12			20	20	li i		-				
	S-6	8"	12		24	50/3"			-	Same					
				14				-		BORING COMPLETED AT 13± FEET					
15									_						
					i i										
									<u>i l</u>						
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00								_			<u> </u>				
20					-						-				
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Nominal I.D. of Hole	In	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	in	engineers recommendations contained in the report from which these logs were extracted.
Core Size	In	Pp: Pocket Penetrometer; WOH: Weight of Hammer, WOR: Weight of Rod
		Approximate Change in Strata: Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

ť –	C	EC	21		PF	ROJECT	NAME:	F	Propose	d Logist	ics Cent	er	BORING NO.				3B-3
	U					LOC	CATION:		Southeast, New York					JOB NO.			
_	EN	GINEEF	18		-	M	ETHOD:		Holk	w Stern	Auger		GROUN	DELEVATI	ON:	6	69.0'
BORI	NG BY:		GBI		D	ATE ST	ARTED:	3/23	/2018	GROUNDWATER TABLE DEPTH							
INSP	ECTOR:		MZ	-	DATE		LETED:	3/23	/2018	0 Hr. 5'± Date 3/23/18 24 Hr. N/A							N/A
DEPTH	SAMPLE	REC	EROW			Blows on Spoon		ı	N								Symbol
(11)	No.	(in)	(A)	(9)	0/8	8/12	12/19	19/04	(61/8)		SOIL I	JESCRI		ND STRATI	FICATION	N.	LIBOR
0	8.1	127	(11)	(11)	2	0/12	12/10	10/24			current T						USCS
	5-1	12		2	3	3	2	2	3	10	opsou					F	
	8.2	14"	2	-	4	6	-	3	12	Links D.		бтт т					
	0-2	14	-	4		0	2	4	13	Cenual		ycy SIL I saismal (, some coa	use to hue 2s	nd, nace		
5	-				-	-	<u> </u>	-	-	GIAVEL,			JOODICS				
-	8-3	14"	5	-	3	7			14	Same						17	-
			<u> </u>	7		<u> </u>	7	8	1.4	Denile							
	S-4	24"	7	<u> </u>	8	12			22	Same							-
				9			10	10		Surio							-
10						-			-								-
	S-5	12"	10		6	13			33	Same						-	
				12	-		20	23									
	S-6	16"	12		28	34			87	Same							
				14			53	40									
15											BOF	LING CO)MPLETE	D AT 14± FE	ET ON		
												PR	OBABLE I	OULDER		5. C	
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Nominal I.D. of Hole	In	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
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Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	in	engineers recommendations contained in the report from which these logs were extracted.
Core Size	In	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod
		Approximate Change in Strata: Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

SESI –							PROJECT NAME:			Proposed Logistics Center					BORING NO. S			
	CO	NSULTI	NG		-		ETHOD		Sout	ICASI, NO	W YORK		JOB NO.		Shi.		7999 F0 01	
		GINEEF	CRI					9/79		w Stem	Auger	CP/			JN:	6	58.U	
NSDE	CTOR:		MZ			COMP	ETED.	3/23	3/23/2018 GROUNDWATER TABLE DEPTH						Date	N7/A		
DEPTH			DEP	тн	Grut			0120	au Iu	U DI. 101 Dave 3/23/18 24 DI. N/A Da							AWA	
(ft)	SAMPLE	REC	FROM	то	1	Blows o	on Spoor	1	N	SOIL DESCRIPTION AND STRATIFICATION						N	Symb	
Ó	NO,	(in)	(ft)	(ft)	0/6	6/12	12/18	18/24	(bl/ft)	1							USC	
_	S-1	12"	0		2	2			5	Tops	ามี					1	-	
				2			3	5		1								
	S-2	8"	2		8	11			61	Light Br	own Clay	ey SILT	, little coan	se to fine San	d, trace			
				4			50/3*	-		Gravel,	with occa	sional C	obbles					
5						-										_		
	S-3	5"	5		6	6			12	Same	with Roo	t fibers						
				7			6	6	<u> </u>	1								
	S-4	8"	7		9	9			23	Same							_	
4.0			-	9	-		14	13	·									
10		0.01	10			10										-	-	
	8-3	20"	10	10	3	12	14	10	26	Same							-	
				12	-		14	15									-	
				-		-												
15					-				-	ł							-	
10	8-6	18"	15		21	23			44	Same .	uith Cabi	ales					-	
		10		17		20	21	23		Same		011229					\vdash	
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		The appartance information arown netcon was optimed for the design and estimating burboses for our chem.
I Sampler 1	1% in	It is made available to authorized users only that they may have access to the same information available
n Drive Pipe 30	00 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
n Split Barrel 14	40 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Pipe	In	engineers recommendations contained in the report from which these logs were extracted.
	In	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod
	el Sampler d' n Drive Pipe 3 n Split Barrel 1 Pipe	al Sampler 1% In n Drive Pipe 300 lb n Split Barrel 140 lb Pipe In In

Approximate Change in Strata: Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 5

	C	P	ROJECT	NAME:	F	Propose	d Logistics Center BORING NO.	SE	3-5			
	3					LOC	ATION:		South	east, New York JOB NO.	99	99
	EN	GINEEF	NG 16			М	ETHOD:		Holic	w Stem Auger GROUND ELEVATION:	65	8.0'
BORI	NG BY:		GBI		D	ATE ST.	ARTED:	3/23	/2018	GROUNDWATER TABLE DEPTH		
INSPI	ECTOR:		MZ		DATE		LETED:	3/23	/2018	O Hr. NE Date 3/23/18 24 Hr. N/A Date	9 N//	A
DEPTH	SAMPLE	REC	FROM	тн	ł	Blows of	on Spoor	1	N	SOIL DESCRIPTION AND STRATIFICATION		Symbol
0	No.	(in)	(ft)	(ft)	0/6	6/12	12/18	18/24	(bi/ft)			USCS
	S-1	6"	0		3	2			5	Topsoil	1	
				2			3	8				
	S-2	14"	2		6	12			24	Light Brown Clayey SILT, little coarse to fine Sand, trace		
				4	-	-	12	11		Gravel, with occasional Cobbles		
5	6.2	1.41				0					-	
	8-3]4"	3	7	9	8	0	0	17	Same		
	<u>S.4</u>	14"	7		10	13	y	0	29	Same with Dark Dropp / Diack Cand		
	54	14		9	10	15	15	12	20	Sano with Dark Drown/Drack Sand		
10									-			_
	S-5	24"	10		11	14			33	Light Brown Clayey SILT, little coarse to fine Sand, trace		
				12			19	18		Gravel		
											[
15								_			_	
	S-6	NR	15		12	14			34	No Recovery		
				17			20	38				
										BORING COMPLETED AT 17± FEET		_
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Nominal I.D. of Hole	In	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	in	engineers recommendations contained in the report from which these logs were extracted.
Core Size	In	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod
		Approximate Change in Strata: Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

									2011		
	<u> </u>	ES	21			ROJECT	NAME:	F	ropose	d Logistics Center BORING NO. SB	-6
						LOC	ATION:		South	east, New York JOB NO. 999	99
L	EN	QINEEA	5			ME	ETHOD:		Holic	w Stem Auger GROUND ELEVATION: 652	2.0'
BORIN	NG BY:		GBI		D/	ATE ST/	ARTED:	3/23	/2018	GROUNDWATER TABLE DEPTH	
INSPE	CTOR:		MZ		DATE	COMP	LETED:	3/23	/2018	0 Hr. 15 ¹ / ₂ Date 3/23/18 24 Hr. N/A Date	N/A
DEPTH	SAMPLE	REC	DEP	тн		Blows o	n Spoon	1	N		Symbol
(ft)	No.		FROM	то	-					SOIL DESCRIPTION AND STRATIFICATION	
0		(in)	(ft)	(ft)	0/6	6/12	12/18	18/24	(bl/ft)		USCS
	S-1	4"	0		6	5			11	Topsoil	
				2		<u> </u>	6	6			
	S-2	14"	2		7	5		_	11	Light Brown Clayey Silt, and coarse to fine Sand, trace fine Gravel, with Cobbles	
				4			6	8		(-200) = 49.0% W.C. = 13.1%	
5											
	S-3	18"	5		4	7			11	Same	
				7			4	7			
	<u>S-4</u>	15"	7		8	6			11	Same	
				9			5	11			
10								<u>i i</u>			
	S-5	16"	10		6	9			22	Light Brown Clayey SILT, some coarse to fine Sand, trace	
		-		12			13	16		Gravel, with Cobbles	
								-			
15											i i i
	S-6	6"	15		13	16		i li	37	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				17			21	22		Gravel, with Cobbles	
										BORING COMPLETED AT 17± FEET	
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20										_	
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Nominal I.D. of Hole	in	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
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Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	in	engineers recommendations contained in the report from which these logs were extracted.
Core Size	in	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod
· · · · · · · · · · · · · · · · · · ·		Approximate Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

	C	EC	21		PF	ROJECT	NAME:	F	ropose	d Logistics Center BORING NO.	SB-7						
	J					LOC	CATION:		South	east, New York JOB NO.	9999						
	EN	GINEER	8 8		_	M	ETHOD:	_	Holic	w Stem Auger GROUND ELEVATION: 6	347.0'						
BORI	NG BY:		GBI		D	ATE ST	ARTED:	3/22	/2018	GROUNDWATER TABLE DEPTH							
INSPI	ECTOR:		MZ		DATE	COMP	LETED:	3/22	/2018	0 Hr. 7± Date 3/22/18 24 Hr. N/A Date	N/A						
DEPTH (ft)	SAMPLE	REC	FROM	нте от 1		Blows	on Spoon	I	N	SOIL DESCRIPTION AND STRATIFICATION	Symbo						
0	NO.	(in)	(ft)	(ft)	0/6	6/12	12/18	18/24	(bi/ft)	5							
	S-1	12"	0		1	2			6	Topsoil	-						
	8.2	168		2			4	5	10								
	5-2	10.	4		4	0		6	12	Light Brown Clayey SILT, little coarse to fine Sand, trace							
=			-	4	-		0	2		Gravel, with Cobbles							
9	6.9	201	 			11											
	3-3	20"	3	7		- 11	14	16	25	Light Brown/Gray Clayey SiL1, httle coarse to the Sand,							
	64	20*	7		10	12	14	10	63	Links Craves, Will Copped	-						
	0-1	20		٩	10	13	50/27	_	03	Gravel with Collision	-						
10		_		,			50/3	_	-	VIAVE, WILL COUNCE							
	S-5	14"	10		29	48			106	Søme							
			-	12			58	22	100								
									1								
15											-						
	S-6	16"	15		12	11			36 Same								
				17			25	31									
20											-						
	S-7	16"	20		23	12			28	Light Brown/Gray Clayey SILT, little coarse to fine Sand,							
	I.			22			16	27		trace Gravel, with Cobbles							
								[]		BORING COMPLETED AT 22± FEET							
								l			_						
25										_							
				<u>i i</u>				<u> </u>									
30										-							
		_															
35					_					-							
			_		_						-						
			_		_		_	_									
40																	

Nominal I.D. of Hole	in	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	In	engineers recommendations contained in the report from which these logs were extracted.
Core Size	In	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod
		Approximate Change in Strata: Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

	C		21		PF	OJECT	NAME:	F	Propose	d Logistics Center BORING NO.	SB-8 9999						
	J					LOC	ATION:		South	east, New York JOB NO. S							
	EN	GINEEF	18	_		ME	ETHOD:		Holk	w Stem Auger GROUND ELEVATION: 6	60.0'						
BORI	NG BY:		GBI		D	ATE ST/	ARTED:	3/22	/2018	GROUNDWATER TABLE DEPTH							
INSPI	ECTOR:		MZ		DATE	COMP	LETED:	3/22	/2018	0 Hr. 10'± Date 3/22/18 24 Hr. N/A Date	N/A						
DEPTH (ft)	SAMPLE	REC	FROM	лн то		Blows o	n Spoor	1	N	SOIL DESCRIPTION AND STRATIFICATION	Symbo						
0	NO.	(in)	(ft)	(ft)	0/6	6/12 12/18		18/24	(bl/ft)		USCS						
	S-1	12"	0		3	5			10	Topsoil							
				2	1		5	5									
	S-2	14 ⁿ	2	_	5	12			28	Light Brown Clayey SILT, little coarse to fine Sand, trace							
				4			16	17		Gravel, with Cobbles	1						
5										2							
	S-3	12"	5		7	9			19	Same (mottled)							
				7			10	10									
	S-4	14*	7	-	10	17			30	Same	-						
10				9	-		13	17	-								
10	8.4	71	10		27	50/2#			-	Light Deserve Classes OT T little agains to Gas Gas & tone	+						
	<u> </u>	/	10	12	41	5013				Gravel with Cables	<u> </u>						
					-				-	Chavel, will Coopies	-						
15								_			-						
	S-6	3"	15		50/3"	- 1			1.0	Light Brown Clayey Silt, some coarse to fine gravel, little coarse to fine Sand	1						
				17													
										BORING COMPLETED AT 17± FEET ON							
										PROBABLE BOULDER							
20				_						_							
										2							
											-						
							_										
25							-										
20				-	-	-	-	_		-							
									-		-						
30																	
											1						
				1													
									_								
									-								
35				_						7							
l.																	
40				_			-	_			-						
4V																	

Nominal I.D. of Hole	in	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Spilt Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	In	engineers recommendations contained in the report from which these logs were extracted.
Core Size	In	Pp: Pocket Penetrometer, WOH: Weight of Hammer; WOR: Weight of Rod
		Approximate Change in Strata: Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

BORING BY: INSPECTOR: DEPTH (ft) 0 S-1		REC	GBI MZ			LOC	ATION:		South	east. N	New York		JOB NO.				9999			
BORING BY: INSPECTOR: DEPTH (ft) SAMP No. 0 S-1	ENG	REC	S GBI MZ			M		Southeast, New York					JOB NO.							
BORING BY: INSPECTOR: DEPTH (ft) SAMP No. 0 S-1		REC					ETHOD:		Holic	w Ster	m Auger		GROUNI	D ELEVA	TION:		670.0'	·		
INSPECTOR: DEPTH (ft) 0 S-1		REC	NSPECTOR: MZ				ARTED:	3/19	/2018	GROUNDWATER TABLE DEPTH						_				
(ft) SAMP No. 0 S-1		REC			DATE	COMP	LETED:	3/19	/2018	0 Hr.	10 <u>+</u>	Date	ate 3/19/18 24 Hr. N/A Date				N/A			
0 No. 0 S-1			EPOM	то		Blows o	in Spoor	1	N	SOIL DESCRIPTION AND STRATIFICATION							Sy	mbol		
S-1	1	(In)	(A)	(8)	0/8	8/42	10/18	19/24	(61/8)											
D-1	_	12"	0	(11)	2	2	12/10	10/24		48.4	Tamail							303		
		14	-	2		-	2	4			торьоц									
<u>8-2</u>	+	15"	2	-	12	12	-		10	T joht 1	Rman Clas	New SIT T	little coen	e to fine S	and trace		-			
	-		_	4		1	7	5		Gravel	1	,0, 0101	, 11110 00011	JO 10 1010 5	414, 4400			_		
5											-						-	-		
S-3		16"	5		3	6			16	Light Brown Clavery SILT. little coarse to fine Sand trace Ground			Gravel	-	-					
				7		i i	10	30/2"		1		-	•							
									() I	1										
S-4		NR	8		6	7			15	No Re	covery									
10				10			8	18						,			ŝ,			
S-5		18"	10		12	24			63	Light H	Brown Clay	ey SILT	, little coars	e to fine S	and, trace					
				12			29	26		Gravel	l with Cobb	les and I	Boulders				_			
	1																			
	_					-														
15	-																_			
<u>\$-6</u>	_	14"	15		24	41			107	Light E	Brown Clay	ey SILT	, little medi	um to fine	Sand, trace					
	-			17			66	58		Gravel										
	-			_		_				BORING COMPLETED AT 17± FEET ON								_		
	-					-			-			PRO	DBABLE E	OULDER			-	_		
20	+		-													2	+			
-	+							-										-		
	+	-				-		-												
	+						_	_												
25	-																-	-		
	-			-	-	-										,				
	+			- 1					-											
	+	-						-										-		
	1																	_		
30																		-		
									-								-	\neg		
																		-1		
	-																	\neg		
35																				
																		-		
40																				

Nominal I.D. of Hole	In	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	In	engineers recommendations contained in the report from which these logs were extracted.
Core Size	In	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod
		Approximate Change in Strata: Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

	C	CC	21		PF	ROJECI	NAME:	F	Propose	d Logistics Center	BORING NO.			SB-10			
						LOC	CATION:		South	east, New York	JOB NO.		S	999			
-	EN	GINEEA	8	_		M	ETHOD:		Holic	w Stem Auger	GROUND	ELEVATION:	6	81.0'			
BORI	NG BY:		GBI	_	D/	ATE ST	ARTED:	3/19	/2018	GROUNDWATER TABLE DEPTH							
INSPI	ECTOR:		MZ	MT-1	DATE	COMP	LETED:	3/19	/2018	0 Hr. 10'± Date 3/19/18 24 Hr. N/A Date				N/A			
(ft)	SAMPLE	REC	FROM	то		Blows o	n Spoon	1	N	SOIL DESCRIPTION AND STRATIFICATION		r	Symbo				
0	110.	(in)	(ft)	(ft)	0/6	6/12	12/18	18/24	(bl/ft)	n)							
	S-1	12"	0		2	3			7	2" Topsoil							
				2			4	9									
	S-2	22	2		9	10			24	Light Brown Clayey SILT,	some coar	se to fine Sand, trace					
				4	-		14	15		Gravel							
5			-		-												
	S-3	12*	5		8	8			16	Light Brown Clayey SILT,	little coars	e to fine Sand, trace					
	0.4	00"		7			8	7	4.5	Gravel, with Cobbles							
	5-4	22"			6	6		-	13	Same							
10				9		-		0									
14	S-5	Q#	10		30	23			52	Light Brown Clause ST T	little	a to fine Cand tenor		1			
	5-5		10	12	57	20	30	29	33	Gravel with Cobbles	IIIIe Coars	e to mie Sand, trace		<u> </u>			
								~									
														-			
15																	
	S-6	6"	15		13	24			54	Same			23				
				17			30	34									
					<u> </u> .]							
20																	
	S-7	14"	20		7	14			31	Gray/Green Clayey SILT, li	ittle coarse	to fine Sand, trace		L			
				22	1		17	18		Gravel							
										BORING C	OMPLETE	D AT 22± FEET					
05				_				_						<u> </u>			
23														-			
									-					<u> </u>			
						_											
30																	
													1				
]							
35																	
			_	_		_	_										
40	V																

Nominal I.D. of Hole	in	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	In	engineers recommendations contained in the report from which these logs were extracted.
Core Size	In	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod
		Approximate Change in Strata: Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

	C	EC	N.		Pf	ROJECT	NAME:	Proposed Logistics Center					BORING NO. 8			B-1 1		
	3					LOC	ATION:		South	east, New Y	íor k		JOB NO.			1	9999	
	EN	GINEER	19 19		_	M	ETHOD:		Hollo	w Stem Au	ger		GROUNE) ELEVATIC	DN:	6	82.0'	
BORI	NG BY:		GBI		D,	ATE ST/	ARTED:	3/19	/2018	GROUNDWATER TABLE DEPTH								
INSPE	ECTOR:		MZ		DATE	COMP	LETED:	3/19	/2018	0 Hr.	10'± Date 3/19/18 24 Hr. N/A Dat							
DEPTH	SAMPLE	REC	FROM	то		Blows o	n Spoor	1	N	SOIL DESCRIPTION AND STRATIFICATION		1	Symbol					
0	NO.	(in)	(ft)	(ft)	0/6	6/12	12/18	18/24	(bl/ft)	DUfft)							USCS	
	S-1	9"	0		2	5			9	2" Topio	xil					ſ	-	
				2			4	3										
	S-2	10"	2		8	11			20	Light Brown	n SIL'I	r, some	coarse to fin	ie SAND, tra	ce Gravel		<u> </u>	
				4	-		9	9									-	
5	S-3	14"	4		5	8	_		20	Light Brown	n C lay	ey SILT	, little coars	e to fine San	d, trace	-		
				6			12	13		Gravel								
	<u>S-4</u>	20"	6		14	11			22	Same								
	0.6	1.49	0	8	24	14		6	-	T Labor Th	C 1		11441					
10	3-3	14"	ő	10	24	14	6	11	20	Light Brown	1 Clay	ey SILT	, little coars	e to fine San	d, trace			
10	S-6	6*	10	10	60	50/2*	0		-	Gravel						-		
	5-0		10	12	00	5012	-	-	-	Same								
					-													
15																		
	S-7	12"	15		18	19			39	Light Brown		ey SILT,	some coars	e to fine Sar	nd, little			
				17			20	26		Gravel								
					[]													
20					-	_			_									
	S-8	1"	19		50/3"	-			-	Light Brown	Clay	ey SILT,	trace Sand,	trace Grave	l with Cob	bles		
				20			-	-			BO	RING C	OMPLETE	D AT 19.1±1	FEET			
																	<u> </u>	
25																		
20																=		
		_		-	-		-											
									-									
				1														
30																		
																1		
35							_	_	-							-		
				_			-											
10			-				-	-	_									
40			()															

Nominal I.D. of Hole	in	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	In	engineers recommendations contained in the report from which these logs were extracted.
Core Size	In	Pp: Pocket Penetrometer, WOH: Weight of Hammer, WOR: Weight of Rod

Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

	C	EC	21		PF	ROJECT	NAME:	F	Propose	BORING NO.	SB-12					
	0					LOC	CATION:		South	east, New York JOB NO.	9999					
-	EN	GINEER	16		-	M	ETHOD:		Hollo	w Stem Auger GROUND ELEVATION:	686.0'					
BORI	NG BY:		GBI		D/	ATE ST.	ARTED:	3/22	/2018	GROUNDWATER TABLE DEPTH						
INSPE	ECTOR:	-	MZ	37714	DATE	COMP	LETED:	3/22	/2018	0 Hr. 5'± Date 3/22/18 24 Hr. N/A Dat	3 N/A					
(8)	SAMPLE	REC	FROM	ТО		Blows o	on Spoor	ı	N	SOIL DESCRIPTION AND STRATIFICATION						
	No.	(in)	(ft)	(ft)	0/6	6/12	12/18	18/24	(b)/ft)							
ļ.	S-1	12"	0	(2	2		TOYET	4	Tonsoil						
				2	1		2	3								
	S-2	12"	2		4	5			10	Light Brown Clayey SILT, little coarse to fine Sand, trace Gravel						
				4			5	8								
5																
	S-3	.16"	5		5	6			12	Same						
				7			6	7								
	S-4	10"	7		10	11			25	Light Brown Clayey SILT, some coarse to fine Sand, trace Gravel						
4-				9	-		14	13		with occasional Cobbles	_					
10									-							
	8-5	11"	10	10	20	18		1/7	38	Light Brown Clayey SILT, little coarse to fine Sand, trace Gravel						
				12	-		20	17			-					
					<u> </u>											
15				_	-	-			-							
10	8.6	14	15	-	10	22			42	9ema	+					
		14	15	17	12		20	21	72	Sauc						
					-											
						_										
20											_					
	S-7	12"	20		45	48			96	Same	-					
				22			48	51								
	S-8	3"	22		50/4"	242				Same with Cobbles						
				24				[¥]		BORING COMPLETED AT 22.5± FEET						
25				_							_					
	-							<u> </u>								
							_									
					-											
20							-		_		-					
30				-				-	-		+					
				-				-			-					
											-					
								- 1			-					
35											-					
11				()							-					
i i																
1																
40																

Nominal I.D. of Hole	in	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominai I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	ín	engineers recommendations contained in the report from which these logs were extracted.
Core Size	In	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

SECI					P	ROJECT	NAME:	F	ropose	d Logistics Center BORING NO.	SB-13			
JEJI						LOC	ATION:		South	east, New York JOB NO.	9999			
ENGINEER®						M	ETHOD:		Holic	w Stem Auger GROUND ELEVATION:	684.0'			
BORING BY: GBI					D	ATE ST	ARTED:	3/22	/2018	GROUNDWATER TABLE DEPTH				
INSPE	ECTOR:		MZ		DATE	ECOMP	LETED:	3/22	/2018	0 Hr. 104 Date 3/22/18 24 Hr. N/A Date :	N/A			
	SAMPLE	REC	DEF	тн		Blows o	n Spoor	ı	N		Symbol			
(IT)	No.	(1=)	FROM	(0)	0.40	040	40/40	10/04	161400	SOIL DESCRIPTION AND STRATIFICATION	11000			
-	S.1	(11)	(11)	(14)	0/0	1	12/10	10/24		Tennell	USUS			
	5-1	0	-	2	-	-	3	3	0					
	S-2	12"	2		2	7	-		16	Light Brown Clayey SILT, little coarse to fine Sand, trace	-			
				4		-	9	13		Gravel				
5														
	S-3	10	5		25	15			32	Same				
				7			17	18						
	S-4	NR	7		19	21			43	No Recovery				
				9			22	27						
10				_							-			
	8-5	8"	10	10	13	23		60	67	Light Brown Clayey SILT, some coarse to fine Sand, trace				
	64	£11	16	12	67	60	44	50	100	Gravel, with Cobbles				
	3-0	0.	15	17	0/	36	67	60	125	Light Brown Clayey SILT, some coarse to fine Sand, trace				
15			-	17			07	09		Gravel, with Coobles				
10	<u>8-7</u>	9"	20		60	100/3*				Light Brown Clayer SILT little operato fine Send trace				
				22			-	- 1		Gravel				
										BORING COMPLETED AT 22± FEET				
20										77				
05			_				_							
20							_			2	-			
		-		-				_						
		-												
30														
1														
- 0														
35										(iii)				
3	_													
			-											
40				-										
40				· · · ·			<u> </u>							

Nominal I.D. of Hole	in	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Spilt Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	In	engineers recommendations contained in the report from which these logs were extracted.
Core Size	In	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod
		Approximate Change in Strata: Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

SECI					PF	ROJECT	NAME:	F	Propose	d Logistic	cs Cen	ter	BORING NO.				SB-14			
							CATION:		South	least, New York JOB NO.						99				
ENGINEERS					METHOD:				Hollo	ow Stem Auger GROUND ELEVATION:							374	.0'		
BORI	NG BY:		GBI		D/	ATE ST	ARTED:	3/22	/2018	GROUNDWATER TABLE DEPTH										
INSPE	ECTOR:		MZ		DATE	DATE COMPLETED:			/22/2018 0 Hr. 9.5 Date 3/22/18 24 Hr. N/.						N/A	Date	N/A			
(ft)	SAMPLE	REC	FROM	то		Blows on Spoon			N	SOIL DESCRIPTION AND STRATIFICATION							1	Symbo		
0	NO	(In)	(ft)	(ft)	0/6	6/12	12/18	18/24	(bl/ft)	1								USCS		
	S-1	10"	0		2	3			5	Topso	nt)	1			
				2			2	2									T			
	S-2	12"	2		8	9			18	Light Bro	wn Cla	iyey SILT	, little coars	e to fine San	d, trace					
				4			9	11		Gravel, w	vith occ	asional C	obbles							
5		_	-																	
	S-3	24"	5		5	6			15	Same							L			
				7			9	10												
	<u>S-4</u>	20"	7		6	9			20	Same							L			
1			-	9	-		11	13									L			
10	6.6	124	10		10	0											+			
	8-3	15.	10	10	10	ō		17	16	Same							+			
	-			12			0	10				00000								
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Nominal I.D. of Hole	in	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Spilt Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	in	engineers recommendations contained in the report from which these logs were extracted.
Core Size	in	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod
		Approximate Change in Strata: Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

CECI					PROJECT NAME:			F	ropose	d Log	istics Cen	iter	BORING NO.				SB-15		
							CATION:		South	east, New York JOB NO.					5	999			
ENGINEERS					METHOD:				Holic	w Stem Auger GROUND ELEVATION: 6						61.0'			
BORI	NG BY:		GBI		D	DATE STARTED:			V22/2018 GROUNDWATER				TER TAB						
INSPE	ECTOR:		MZ		DATE		LETED:	3/22	/2018	0 Hr.	9 <u>+</u>	Date	3/22/18	24 Hr.	N/A	Date N	/A		
DEPTH	SAMPLE	REC	EROM			Blows on Spoon		1	N		801	DESODI					Symbo		
(11)	No.	(in)	(4)	(#)	0/8	8/12	10/48	40/34	761/84		SOIL	DESCRI	PTION AN	DSIRA	THCATIC	NN .	11000		
	S-1	1.94	0	(11)	2	0/12	12/16	10/24		T	4						USCS		
	5-1	10	0	2	-	3	3	9	0	Tob	SOIL								
	S-2	12"	2	_	6	9			25	Light	Brown coa	rse to fine	SAND and	Silt little	medium to	fine Gravel	-		
				4			16	19		with c	ccasional (Cobbles	51112, 110	. 9119 11609	invertein to	INO GIRIO	·		
5								_	-										
	S-3	22"	5		7	7			14	Same.									
				7			7	9		1									
	<u>\$-4</u>	24"	7		7	8			16	Same.									
				9			8	9		(-200)	= 35.9%	W.C. =	14.2%						
10																			
	S-5	18*	10		6	15			35	Same.									
				12			20	24											
											B	ORING (COMPLETI	ED AT 12:	± FEET				
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Nominal I.D. of Hole	in	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	in	engineers recommendations contained in the report from which these logs were extracted.
Core Size	In	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod
		Approximate Change in Strata: Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

CECI					PROJECT NAME:			F	ropose	d Logi	istics Cent	er	BORING NO. SI				i B-16	
							CATION:		Southeast, New York JOB NO.					91	999			
ENGINEERS					METHOD:				Holic	ow Stem Auger GROUND ELEVATION: 8						54		
BORIN	NG BY:		GBI		D	DATE STARTED:			3/20/2018 GROUNDWATER TABLE DEPTH									
INSPE	ECTOR:		MZ	771.1	DATE		LETED:	3/20	3/20/2018 0 Hr. 91 Date 3/20/18 24 Hr. N/A						N/A	Date N/	A	
(#)	SAMPLE	REC	EPOM	то	ł	Blows on Spoon		1	N		SOUL						Symbol	
0	No.	(In)	(役)	(ft)	0/6	8/12	12/18	18/24	(b)/#)	6	SOILL	JEGURI		DSIKA	INCATIO	N	LIBOR	
—	S-1	12	0	(44)	52	44	12/10	10/24	79	- 18	Amhalt 4"	Subbasa					0305	
0 1				2			54	29	70	Light	Brown Clay	New SILT	little coars	e to				
1										fine S	and, trace G	dravel, w	ith Cobbles					
								_				,						
5																		
	S-2	20"	5		34	25			54	Light I	Brown Claye	ey Silt, so	ome coarse t	o fine San	d, little medi	ium to fine		
				7			29	28		Grave	al (-200) = 4	18.9%	W.C. = 9.1	%				
	S-3	10"	7		48	41			91	Same.	•••							
40				9			50	44										
10												BORING	3 COMPLE	TED 9± F	TEET	-		
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Nominal I.D. of Hole	in	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Split Barrel Sampler	1 % in	It is made available to authorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	In	engineers recommendations contained in the report from which these logs were extracted.
Core Size	in	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod
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a: _____ Inferred Change in Strata: ______

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.
	S	F	21		PF	ROJEC	NAME:	F	Propose	d Logistics Center	BORING NO. 8				8-17		
			NG			LOC	CATION:		South	east, New York	JOB NO.			9	999		
_	EN	GINEEF	18	_	-	M	ETHOD:		Holk	w Stem Auger	GROUND ELEVATION: 58						
BORI	NG BY:		GBI		D/	ATE ST	ARTED:	3/20	/2018	GRO	UNDWAT	ER TABLE DI	EPTH				
INSPI	ECTOR:		MZ		DATE		LETED:	3/20	/2018	0 Hr. 9± Date	3/20/18	24 Hr. N/A		Date N	A		
(ft)	SAMPLE	REC	FROM	то		Blows	on Spoon		N	SOIL DESCRIPTION AND STRATIFICATION							
0		(in)	(ft)	(ft)	0/6	6/12	12/18	18/24	(bl/ft)	x/ft)							
	S-1	18"	0		24	23			43	Fill: Gray coarse to fine G	RAVEL, lit	tle coarse to find	s Sand.	little Silt	1		
			1 T	2			20	17		Light Brown Clayey SILT,	, little coars	e to fine Sand, t	race G	ravel	1		
															-		
5	·																
	S-2	12"	5		5	6			18	Light Brown Clayey SILT,	little coars	e to fine Sand, t	race				
				7			12	11		Gravel, with occasional Co	bbles	·					
	S-3	24"	7		10	8			19	Same							
		_		9			11	17									
10		_								BORING	COMPLET	ED AT 9± FEE	Г				
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Nominal I.D. of Hole	in	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	In	engineers recommendations contained in the report from which these logs were extracted.
Core Size	in	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod
N		

ata: ______ Inferred Change in Strata: ______

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted,

1	C	EC		PROJECT NAME:			Proposed Logistics Center					BORING	NO.		1	5B-	-18	
						LOC	CATION:	Southeast, New York				JOB NO.	JOB NO.				9999	
	EN	GINEER	\$			М	ETHOD:		Holic	w SI	tem Auger		GROUNI	DELEVA	FION:		598	8' <u>+</u>
BORIN	NG BY:		GBI	_	D/	ATE ST.	ARTED:	3/20	/2018	-		GF	OUNDWA	TER TAB	LE DEPTH	1	_	
INSPE	CTOR:		MZ			COMP	LETED:	3/20	/2018	OH	Ir. 8± Date 3/20/18 24 Hr. N/A Date						N/A	
(ft)	SAMPLE	REC	FROM	то	1	Blows of	on Spoor	1	N	SOIL DESCRIPTION AND STRATIFICATION								Symbol
0	NO.	(in)	(ft)	(ft)	0/6	6/12	12/18	18/24	(bl/ft)								ł	USCS
	S-1	12"	0		38	31			59	I	Fill: 1" Asp	halt, 6" S	tone Subbase				T	
				2			28	17		Ligt	nt Brown C	layey SIL	T, little coan	e to fine S	and, trace	Gravel	I	
]																
					_	-			-									
5	8.2	01		_						L.,						3	+	
	3-2	8.	3	7	8	8	12	27	21	Ligh	if Brown C	layey SIL	T, little coard	e to fine S	and, trace		ŀ	
	S-3	12"	7		Q	14	12	41	30	Sam	VCI						ł	
			<u> </u>	9			16	16	50	Sau							ŀ	
10				-								BORING	COMPLET	ED AT 9	FEET			
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Nominal I.D. of Hole	In	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	in	engineers recommendations contained in the report from which these logs were extracted.
Core Size	In	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

	S		21		PF	ROJECT	NAME:	F	ropose	d Logistics Center BORING NO.	SB-19						
		NSULTI				LOC	CATION:		South	east, New York JOB NO.	9999						
	EN	GINEEF	16		-	M	ETHOD:		Holic	w Stem Auger GROUND ELEVATION:	610						
BORI	NG BY:		GBI		D/	ATE ST	ARTED:	3/20	/2018	GROUNDWATER TABLE DEPTH							
DEDT	ECTOR:			TU	DATE	COMP	LETED:	3/20	/2018	0 Hr. NE Date 3/20/18 24 Hr. N/A Date	N/A						
(ft)	SAMPLE No.	REC	FROM	TO		Blows	on Spoor	1	N	SOIL DESCRIPTION AND STRATIFICATION	Symbo						
0		(in)	(作)	(ft)	0/6	6/12	12/18	18/24	(bl/ft)		USCS						
	S-1	12"	0		7	11			22	Fill: 1" Asphalt, 8" Gravel Subbase							
				2			11	17		Light Brown Clayey SILT, little coarse to fine Sand, trace Gravel							
			-		-												
		_	-					_									
0	6.2	1.40				10		_			_						
	3-4	14"	3	7	28	19	44	10	73	Light Brown Clayey SILT, little coarse to fine Sand, trace							
	5-3	10"	7		0	7	74	10	10	Unevel, with cobbles							
	645	10	+	٩	7			14	15	Light Brown Clayey SILT, little coarse to fine Sand, trace							
10				-			0	14									
		_			-	-		_	-	BORING COMPLETED AT 9± Feet	-						
				_				_									
						-			-								
15								-			-						
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Nominal I.D. of Hole	in	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	In	engineers recommendations contained in the report from which these logs were extracted.
Core Size	in	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

1	C	EC	21		PF	ROJECT	NAME:	F	Propose	d Logistics Center BORING NO.	SB	-20
						LOC	CATION:		South	east, New York JOB NO.	99	99
_	EN	GINEEF	8	_	-	M	ETHOD:		Holic	w Stem Auger GROUND ELEVATION:	607	7 <u>+</u>
BORI	NG BY:		GBI		D	ATE ST	ARTED:	3/20	/2018	GROUNDWATER TABLE DEPTH		
INSPI	ECTOR:		MZ		DATE		LETED	3/20	/2018	0 Hr. 94 Date 3/20/18 24 Hr. N/A Date	N/A	
DEPTH (ft)	SAMPLE	REC	FROM	то		Blows o	on Spoon	1	N	SOIL DESCRIPTION AND STRATIFICATION		Symbo
0	140.	(in)	(ft)	(ft)	0/8	6/12	12/18	18/24	(bl/ft)		Ì	USCS
	S-1	1 6 "	0		20	7			15	Fill: 1" Asphalt: 6" Subbase	Г	
				2			8	7		Light Brown Clayey SILT, little coarse to	1	1
										fine Sand, trace Gravel	[
									_			
5											_	
	S-2	16"	5		8	50			85	Light Brown Clayey SILT, little coarse to fine Sand, trace		
				7			35	8		Gravel		
	S-3	12"	7		8	8			20	Same		
1				9		-	12	29				
10					-		$ \rightarrow $	_		BORING COMPLETED AT 9± FEET	+	
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Nominal I.D. of Hole	in	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Split Barrei	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	In	engineers recommendations contained in the report from which these logs were extracted.
Core Size	In	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod
		Approximate Change in Strata: Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

	G		PROJECT NAME:			Proposed Logistics Center				BORING	NO.		S	3-21				
					-	LOC	CATION:		South	east, N	ew York		JOB NO.			9999		
	EN	GINEER	8	_	-	M	ETHOD:		Holic	w Sten	Auger	_	GROUNE	DELEVA		61	10' <u>+</u>	
BORI	IG BY:		GBI	_	DATE COMPLETED			3/20	/2018		2.00	GRO	DUNDWA	TER TAB	LE DEPTH	1		
DEPTH				тн	DATE	COMP	LETED:	3/20	3/20/2018 U Hr. NE Date 3/20/18 24 Hr. N/A D						Date N/	A.		
(ft)	SAMPLE	REC	FROM	то	1	Blows o	on Spoor	ו	N		SOIL DESCRIPTION AND STRATIFICATION							
0	NO.	(in)	(ft)	(ft)	0/6	6/12	12/18	18/24	(bl/ft)	1							USCS	
	S-1	18"	0		5	8			11	Fill	4" Subba	se						
				2			3	4		Light E	rown Clay	yey SILT	, little coars	se to fine S	and, trace		Ū.	
									[]	Gravel							<u> </u>	
						-												
5	8.2	20		_	0				10									
	5-2	20	3	7	0	0	7	10	13	Same								
	S-3	18	7	<u> </u>	9	12	<u>'</u>	10	35	Seme								
				9			23	30	33	Surfo								
10											B	ORING	COMPLET	ED AT 9	FEET			
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Core Size	In	Pro: Pocket Penetrometer: WOH: Weight of Hammer: WOR: Weight of Rod
Drop of Hammer on Drive Pipe	in	engineers recommendations contained in the report from which these logs were extracted.
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Nominal I.D. of Hole	In	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

	C		PROJECT NAME:			Proposed Logistics Center					BORING	NO.		SE	3-22		
						LOC	CATION:	Southeast, New York					JOB NO. 99				999
	EN	GINEER	8			M	ETHOD:		Holk	w Sterr	Auger		GROUND	DELEVA	FION:	6	10
BORI	NG BY:		GBI		D/	ATE ST	ARTED:	3/20	/2018	-		GRO	SUNDWA	TER TAB	LÉ DEPTH		
DEBTU	CTOR:				DATE	COMF	LETED:	3/20	/2018	O Hr.	NE	Date	3/20/18	24 Hr.	N/A	Date N/	A
(ft)	SAMPLE	REC	FROM	то	1	Blows	on Spoor	ı	N	1	SOIL	DESCRI	PTION AN	ID STRAT	FICATIO	N	Symbol
0		(in)	(ft)	(ft)	0/6	6/12	12/18	18/24	(bl/ft)	1							USCS
	S-1	14	0		20	15			22	Fill: Gr	ay coarse	to fine G	RAVEL, se	me coarse	to fine San	d, little Silt	
				2	-		7	11		Light B	rown Cla	yey SILT	, little coars	e to			
					-		-	_		fine Sa	nd, trace (Gravel					
_							-		-								
	S-2	10"	5		4	5		_	11	8						1	
	5-6	10		7	-		6	7	- 11	Same	•						
	S-3	20"	7		15	10			24	Same							
				9			14	20		1							
10											E	ORING	COMPLET	ED AT 9±	FEET		
																-	
					_	-											
15						-		-									_
	-								1							-	
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Nomina	II I.D. of Ho	le			in	The subs	nurface in	formatio	n shown	hereon	was ohtaii	ned for th	e design an	d estimatio		for our clie	an tr

		Approximate Change in Strata: Inferred Change in Strata:
Core Size	In	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod
Drop of Hammer on Drive Pipe	In	engineers recommendations contained in the report from which these logs were extracted.
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Nominal I.D. of Hole	ín	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

-	G	EC	21		PF	OJEC	NAME:	F	ropose	d Logisti	cs Cen	ter	BORING	NO.	S	B-23
						LOC	CATION:		South	east, Ne	w York		JOB NO.		9	999
	EN	GINEEF	19			M	ETHOD:		Hollo	w Stem /	Auger		GROUND	DELEVATION:	6	13'+
BORI	NG BY:		GBI		D/	ATE ST	ARTED:	3/20	/2018			GRO	DUNDWA	TER TABLE DEPTH	1-	_
DEDTU				тн	DATE	COMP	LETED:	3/20	/2018	0 Hr.	<u>84</u>	Date	3/20/18	24 Hr. N/A	Date N	/A
(ft)	SAMPLE	REC	FROM	то	1	Blows of	on Spoor	I I	N		SOIL	DESCRI			N	Symbol
0	NO.	(In)	(ft)	(ft)	0/6	6/12	12/18	18/24	(bl/ft)							USCS
	S-1	18"	0		33	22	1		35	1 1" As	phalt: 5	" Subbaa	•		1	0000
				2			13	12		Light Bro	wn Cle	ayey SILT	, little coars	e to fine Sand, trace		
										Gravel						
5				_												
	S-2	18"	5		12	12			24	Same						
	6.2	168		7	10		12	15								
	3-3	10		0	12	п	10	12	23	Same						
10				7			12	13			1					
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Nominal I.D. of Hole	In	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to anthorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	In	engineers recommendations contained in the report from which these logs were extracted.
Core Size	in	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

SESI			PROJECT NAME:			AE: Proposed Logistics Center				BORING NO.		SB-24						
						LO	CATION:		South	east, Nev	w York		JOB NO.				9999	
	EN	GINEER	15			M	ETHOD:		Holic	w Stern /	Auger	_	GROUN	DELEVA	FION:	_	642' <u>+</u>	
BORI	NG BY:		GBI		D/	ATE ST	ARTED:	3/20	/2018		_	GRO	DUNDWA	TER TAB	LE DEPTH	1	_	
INSPE	ECTOR:		MZ		DATE		PLETED:	3/20	/2018	0 Hr.	NE	Date	3/20/18	24 Hr.	N/A	Date	N/A	_
/#\	SAMPLE	REC	EPOM			Blows of	on Spoor	1	N		0011						Sym	bol
	No.	(in)	(#)	(#)	0/8	R/12	12/18	19/04	(51/8)	-	SUIL I	DESCRI	PHONAP	DSIRA	IFICATIO	in .		
-	S-1	20"	0	(ity	30	22	12/10	10/24		61 Qui	haaa						USC	38
		20		2		66	18	14	40	Tight Bro		um CII T	Nittle cose	te to fine S	and tenas			_
				_					-	Gravel	114 014	<i>,,,,,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 1110 0011	90 10 III0 B			-	_
									1									-
5										1								-
	S-2	20*	5		14	21			32	Same								
				7	ú — Ö		11	18	ī i									
	S-3	24"	7		13	14			28	Same								
				9			14	16										
10		_					-				B	ORING	COMPLET	TED AT 91	FEET	,		
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15		_															-	_
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Nominal I.D. of Hole	In	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Split Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	In	engineers recommendations contained in the report from which these logs were extracted.
Core Size	in	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod
		Approximate Change in Strata: Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

	SESI			PF	PROJECT NAME:			ME: Proposed Logistics Center				BORING NO.		8	SB-25			
	J					LOC	CATION:		Sout	neas	t, New York	(JOB NO.			6	999	99
	EN	GINEEF	18	_		M	ETHOD:		Holk	ow S	tem Auger		GROUN	D ELEVA	TION:	6	64	<u>t</u>
BORIN	NG BY:		GBI		D	ATE ST	ARTED:	3/20	/2018			GR	OUNDWA	TER TAB	LE DEPTI	4		
INSPE	CTOR:		MZ		DATE	COMF	LETED:	3/20	/2018	OH	r. 7±	Date	3/20/18	24 Hr.	N/A	Date N	I/A	
DEPTH	SAMPLE	REC	DEF	тн		Blows	on Spoor	1	N									Symbol
(ft)	No.		FROM	то					<u> </u>		SOIL	DESCR	IPTION AN	ID STRA	TIFICATIO	N	Ľ	oynibol
0	-	(in)	(ft)	(ft)	0/6	6/12	12/18	18/24	(bl/ft)	-								USCS
(i	\$-1	20"	0		19	20			35	10	Fill: 5" Subt	ase					L	
			-	2			15	8		Lig	ht Brown Cl	ayey SIL1	, little coan	se to fine S	Sand, trace		L	
			-		-					Gra	vel							
			-			-	-		-								L	
5					-		-		-							-	+	
	S-2	16"	5	-	4	12			26	San	NC						1	_
		01	-	7			14	8									4	
	8-3	8"	7	-	6	8			16	Sam	l e						F	
40				9			8	9		-							┝	_
10				_	-		-		-			BORING	COMPLET	TED AT 9:	FEET		╋	_
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Nomina	al I.D. of Ho	le			In	The sub	surface in	formatio	n shown	here	on was obta	ined for t	ne design ar	nd estimati	ng purpose	s for our cl	ient	t.
Nomina	I I.D. of Sp	lit Barrel	Sampler		1% in	lt is mad	le availab	le to auti	norized u	ISCI'S	only that the	y may ha	ve access to	the same	information	available		
Weight	type of Hai	mmer on	Drive Pic	e l	300 lb	to our cl	ient. It is	presente	d in goo	d fail	ih. but it is r	ot intende	ed as a subs	titute for i	vestigation	a intermet	In the	00.0

Weight/type of Hammer on Drive Pipe	to our client. It is presented in good faith, but i	t is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Split Barrel	or judgment of such authorized users. Informa	tion on the logs should not be relied upon without the geotechnical

In engineers recommendations contained in the report from which these logs were extracted. In

Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Inferred Change in Strata: Approximate Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

Drop of Hammer on Drive Pipe

Core Size

SESI					PROJECT NAME:			E: Proposed Logistics Center				BORING NO.			SB-26		
						LOC	CATION:		South	east, No	ew York	(JOB NO.				9999
	EN	GINEER	8		-	M	ETHOD:		Hollo	w Stem	Auger		GROUN	D ELEVA	FION:		674' <u>+</u>
BORI	NG BY:		GBI		D/	ATE ST.	ARTED:	3/20	/2018			GR	DUNDWA	TER TAB	LE DEPTI	-	
INSPE	ECTOR:			TL	DATE	COMP	LETED:	3/20	/2018	0 Hr.	<u>7±</u>	Date	3/20/18	24 Hr.	N/A	Date 1	N/A.
(fft)	SAMPLE	REC	FROM	то		Blows o	on Spoor	ı	N		SOIL	DESCRI				N	Symbo
0	No.	(in)	(ft)	(ft)	0/8	6/12	12/18	18/24	(bl/ft)	i							USCS
	S-1	18"	0		26	21			31	Fill	Subbase	,					
				2			10	20		Light B	rown Cl	ayey SILT	, little coan	se to fine S	and, trace		
								_		Gravel							
5				_													
	S-2	20"	5		6	7	10		28	Same							
	8.2	12*		/	42	40	18	20	00	Gamer							
	3-3	14		9	43	46	40	37	88	same							
10				-				51			1	BORING	COMPLET	ΈD AT ዓ	FRET		-
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15	-		-			_										-	
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Nominal I.D. of Hole	In	The subsurface information shown hereon was obtained for the design and estimating purposes for our client.
Nominal I.D. of Split Barrel Sampler	1% in	It is made available to authorized users only that they may have access to the same information available
Weight/type of Hammer on Drive Pipe	300 lb	to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations
Weight/type of Hammer on Spilt Barrel	140 lb	or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical
Drop of Hammer on Drive Pipe	In	engineers recommendations contained in the report from which these logs were extracted.
Core Size	in	Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Inferred Change in Strata:

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

PRO	JECT NO.	TEST PIT	NO.	TP-1						
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	649±'	INSPECT	ED BY	RR		
WAT	FER OBSE	RVATION	Light seepage	@ 2.5:	:'; Seepage @ 3.5±'	DATE EX	CAVATED	<u>3/5/2018</u>		
DEPTH FT.		DES	CRIPTION / SO	IL CLAS	SSIFICATION		RELATIVE	DENSITY OR		
0	6-inch Top	osoli								
1 <u> </u>	Light Brow	vn Clayey SILT I cobbles	, and coarse t	o fine S	Sand, trace Gravel, v	with				
2	(USCS : C	CL)					Medlum-Stiff			
3 	Same as a (USCS: C	above with mot		Medi	ium-Stiff					
5										
6			End of Test P	lt at 5.6	5± Feet					
_										
8 <u> </u>										
9										
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PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-2
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	643± '	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	Seepage	@ 2', 4',	Heavy @ 7±',	DATE EX	CAVATED	3/5/2018
DEPTH FT.		DESC	RIPTION / SO	IL CLAS	SIFICATION		RELATIVE	DENSITY OR
0	3-inch To	psoil						
-	Light Brow	wn Clayey SILT	, and coarse t	o fine Sa	and, trace Gravel,	with		
1	occasiona	al cobbles					Med	ium-Stiff
_	(USCS : C	CL)						
2								
-	Light Brow	vn mottled Claye	ey SILT, some	coarse	to fine Sand, trace	e Gravel, with		
3	occasiona	al cobbles						
-	(USCS : C	CL)					Medi	um Stiff
4								
-								
5								
_								
6								
7_	-							
			End of Test I	Pit at 7±	Feet			
8 <u>—</u>								
9								
10								
10_								
11								
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						SESI CONS	UI TING F	NGINEERS

PRO	JECT NO.	9999	TEST PIT	IT NO. TP-3				
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	646± '	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	Heav	y seep	age @ 2±'	DATE EX	CAVATED	<u>3/5/2018</u>
DEPTH FT.		DESC	RIPTION / SO	IL CLA	SSIFICATION		RELATIVE	DENSITY OR
0	3-Inch Top	osoil						
-	Light Brow	vn Clayey Silt, s	some coarse t	o fine :	Sand, trace Gravel,	with		
1	occassion	al cobbles					Med	ium-Stiff
-	(USCS : C	C)						
2								
-	Light Brow	vn mottled Clay	ey Silt, little co	oarse t	o fine Sand, trace (Gravel, with		
3	occasiona	i cobbles					Med	ium Stiff
	(USCS :C	L)						
4								
								to
°—								
0-								Stiff
7								
			End of Test Di	tat 8 7	5+ East			
8		· ·		t at 0.7	ot reat			
	1							
9								
10								
_								
11								
—								
12								
—								
13								
14								

PRO.	JECT NO.	9999	TEST PIT	NO.	ТР-ЗА			
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	647 ±	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	S	eepag	e at 3'	DATE EX	CAVATED	4/7/2018
DEPTH FT.		DESC	RIPTION / SO	IL CLA	SSIFICATION			DENSITY OR
0	4" T	opsoil						
1	Liş	ght Brown SILT	with Cobbles	Medlum Stiff				
				Med	ium Stiff			
2	Brov	vn Clayey Silt, a vel with Cobble	fine					
3	Olar			0				
-								
4	0.				and Deals on David		B.d J	0.00
5_			ayey Silt with V	weathe	ered Rock of Bould	ər	Med	um Stm
_								
6								
7_								
_			End of Test F	Pit at 7	± Feet	(
8								
9_								
10								6
12								
-								
13 <u> </u>								
14								

PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-4
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	638 ± '	INSPECT	ED BY	MZ
WAT	FER OBSEI	RVATION	Seepage @ 2.	.5±', He	avy seepage @ 4±'	DATE EX	CAVATED	<u>3/5/2018</u>
DEPTH FT.		DES	CRIPTION / SO	IL CLAS	SIFICATION		RELATIVE DENSITY OR CONSISTENCY	
0	4-Inch Top	osoil						
1 2	Brown Cla (USCS : C	iyey Silt, some CL)	coarse to fine	Sand,	trace Gravel		Medium-Stiff	
3 <u> </u>	Light Brow	n Clayey SILT		Medi	um Stiff			
4 5	with occas (USCS : C	ional cobble :L)	to					
6 <u> </u>								Stiff
7 7 8			End of Test P	it at 6.8	± Feet			
9								
10								
11								
12								
 13								
 14								

PRO.	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	'NO.	TP-4A
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	647 ±	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	S	eepage) at 22"	DATE EX	CAVATED	4/7/2018
DEPTH FT.		DESC	RIPTION / SO		SSIFICATION		RELATIVE	DENSITY OR
0	5" T	opsoil						
1 <u></u>	Ligh Grav	t brown SILT, a vel with Cobble	and coarse to t s	fine Sa	nd, trace coarse to	fine	Med	ium Stiff
2	Brov	vn Clayey SILT	(Mottled), and	d coars	e to fine Sand, little	e coarse		Stiff
4 <u> </u>	to fir	e Gravel with 6	Coddies and E	souider	8			
5								
6								
7_								
8_	Sam	e with Gray (Clayey Silt and	d possi	ble weathered Bed	rock or	ŀ	lard
9_	Boul	der						
_			End of Test F	Pit at 9 :	± Feet			
¹⁰ —								
11								
_								
13								
14								
					SESI C	ONSULTIN	G ENGINE	ERS D.P.C.

PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-5
LOC	ATION	SEE FIGURE 1	APPROX. E	ELEV.	641± '	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	Light Se	epage	@ 22*/ @ 4±'	DATE EX	CAVATED	<u>3/5/2018</u>
DEPTH FT.		DESC	RIPTION / SO		SSIFICATION			DENSITY OR
0	5-inch Top	psoil						
1 1 2	Light Brown Clayey SILT, some coarse to fine Sand, trace Gravel Medium Stiff (USCS : (CL)							
3 4	 Light Brown mottled Clayey SILT, little coarse to fine Sand, trace Gravel, with occasional cobbles (USCS : CL) 							
5	Light Brow	vn Clayey Slit, a	ome coarse t	o fine S	Sand, little coarse to	fine Gravel	Medium Stiff	
6	Light Brow Gravel wit (USCS : C	n Clayey Silt, s th occassional :L)	come coarse t	to fine \$ boulder	Sand, trace medium	to fine	Medium Stiff	
7 <u> </u>								
 9								
			End of Test P	rit at 9.8	B± Feet			
11								
 12								
	-							
13								
14	-							
-				_		SESI CONS		NGINEERS

PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	r TEST PI	T NO.	TP-6	
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	645± '	INSPEC	TED BY	JQ	
WAT	ER OBSEI	RVATION	Seepage @	1.5±'; H	leavy seepage 4	±' DATE E	XCAVATED	<u>3/5/2018</u>	
DEPTH FT.		DES	CRIPTION / SO		SSIFICATION		RELATIVE	DENSITY OR	
0	4-inch Top	bsoil							
1 1 2	Brown Clayey SILT, some coarse to fine Sand, trace Gravel Medium-Stiff (USCS : CL)								
_	Dark Brow	n Clayey Silt,	ittle coarse to	fine Sa	ind, trace Gravel	, with	Medi	um Stiff	
3	occasiona	l cobbles							
	(USCS : C	:L)							
*					to				
5									
6									
7_								Chiff	
_								5011	
8	-								
			End of Test P	it at 8.1	± Feet				
9									
10									
_									
11									
' <u>~</u>									
13									
_	-								
14						0501.001		NONE	

PRO.	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	'NO.	TP-7
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	643± '	INSPECT	ED BY	JQ/RR
WAT	ER OBSEI	RVATION	Seepage	@ 2±'/	Heavy @ 5±'	DATE EX	CAVATED	<u>3/5/2018</u>
DEPTH FT.		DESC	CRIPTION / SO	IL CLAS	SSIFICATION		RELATIVE	E DENSITY OR DISTENCY
0	3-inch Top	osoil						
1 2	- Light Brown Clayey SILT, some coarse to fine Sand, trace coarse to fine Medium-S Gravel with occassional cobbles (USCS : CL)							
_	Light Brown	mottled Clayey	SILT, little coar	se to fin	e Sand, trace coarse	e to fine Gravel	Med	ium-Stiff
3	with occas	ional cobbles a						
	(USCS : C	E)						
5						6		to
_								
7_								
							8	Stiff
8								
9			End of Test Pi	it @ 8.5	i± Feet			
-								1
10								
11								
_								
12								
13								
_	-							
14								

PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-8
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	644± '	INSPECT	ED BY	RR
WAT	ER OBSEI	RVATION	Seepage @ 2	±'/ Hea	vy seepage @ 6±'	DATE EX	CAVATED	3/5/2018
DEPTH FT.		DES	CRIPTION / SO	IL CLAS	SIFICATION		RELATIVE	DENSITY OR
0	3-inch Top	osoil						
1 1 2	 Light Brown SILT, and coarse to fine Sand, trace medium to fine Gravel Medium-Stiff W.C. = 15% (-200) = 53.5% (USCS : CL) 							
3 <u> </u>	 Light Brown mottled SILT, some coarse to fine Sand, little medium to fine Gra with occasional cobbles and boulders 							ium Stiff
4	W.C. = 12	.9% (-2	200) = 52.3%					
5	USCS : C	E)						
_								
6								to
8								
_								
9								
10								Stift
_								
11								
13								
14								NONEEDO

R			
PRO	JECT NO. 9999 PROJECT Southeast, NY TE	ST PIT NO.	TP- 9
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 625'+ IN	SPECTED BY	RR
WAT	ER OBSERVATION Light seepage at 6'± DA	ATE EXCAVATED	3/5/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIV	E DENSITY OR SISTENCY
0	3" Topsoil		
1 <u> </u>	Light-brown coarse to fine SAND, and Silt, trace medium to fine (USCS : SM)	Gravel Med	ium Dense
	Light-brown coarse to fine SAND, some Silt, little medium to fine	Gravel	
3	with occasional cobbles	Med	ium Dense
_	(USCS :SM)		
4			
5			
6			
7_	End of Test Pit at 6.75± Feet		
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8			
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11			
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12			
13			
14			
NOTE:		C	
	Figure 38	0	



PRO	JECT NO. 9999 PROJECT Southeast, NY TEST PI	T NO.	TP- 10
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 629' <u>+</u> INSPEC'	FED BY	RR
WAT	24-hour water reading = 13±" ER OBSERVATION Light seepage at 2'±, Heavy seepage at 4'± DATE EX	CAVATED	3/5/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE	E DENSITY OR BISTENCY
0	4" Topsoll		
-			
1	Light-brown coarse to fine SAND, and Clayey Silt, trace medium to fine	Mediu	um Dense
	Gravel, with occassional cobbles		
2	(USCS : SM)		
3_			
4			
_			
5			
-			
6			
' <u>-</u>	End of lest Pit at 6.5± Feet		
8			
9			
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10			
1 ¹¹ —			
12			
13			
_			
14			
NOTE:	Figure 39	S	ESI

PRO.	JECT NO.	9999	PROJECT	Sou	theast, NY	TEST PIT	NO.	TP- 11
LOC	ATION	SEE FIGURE 1	APPROX. EL	EV.	630' <u>+</u>	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	Seepage at 28":	:; 24-ho u	ur reading = 4±"	DATE EX	CAVATED	3/5/2018
DEPTH FT.		DES	CRIPTION / SOIL	CLASS	IFICATION		RELATIVE	DENSITY OR
0	18"	Topsoli with lig	ht-brown coarse	e to fine	Sand, some Silt,	, little		
	coar	se to fine Grav	vel					
1—								
2	l inc	t have access	to fine Cond. o			turn to fine	Mad	Danas
	Grav	vel with occas	ional cobbles	nd Clay	ey Sin, inde medi		Medi	um Dense
3	(US	CS : SM/SC)						
_	,							
4								
-								
5								
°								
7_								
8								
_			End of Test Pr	t at 8± F	eet			
9								
—								
10								
···—								
12								
13								
_								
14								
NOTE:							S	ESI



PRO	JECT NO. 9999 PROJECT Southeast, N	Y TEST PIT NO.	TP- 12
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 629'+		SY RR
WAT	TER OBSERVATION Seepage at 26±"; 24-hour readin	g = 3±" DATE EXCAV	ATED3/5/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	N RE	LATIVE DENSITY OR CONSISTENCY
0	6" Topsoil		
1 2 3 3 4 5 6 7	Light-brown mottled Clayey SILT, some coarse to fi Gravel with occassional cobbles (USCS : CL)	ne Sand, trace	Medium Stiff
8 9 10 11 12 13 14 NOTE:	End of Test Pit at 7.5± Feet		SESI
NUTE.	Figure 41		SESI



PRO	JECT NO.	9999	PROJECT	Prop	Logistics Center	TEST PIT	NO.	TP-12A
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	677 ±	INSPECT	ED BY	RR
WAT	ER OBSE		S	Seepag	e at 2'	DATE EX	CAVATED	4/7/2018
DEPTH FT.		DESC	RIPTION / SO	IL CLA	SSIFICATION		RELATIVE	DENSITY OR
0	1' To	opsoil						
1								
	Light	t brown SILT, a	and coarse to f	fine Sa	nd, trace Gravel wi	th	Med	ium Stiff
2	Cobl	bles			·			
	Brow	n mottled Clav	oarse to fine		Stiff			
4	Grav	el with Cobble						
6								
_								
7								
8_								
-								
9								
10								
_			End of Test Pi	it at 10	± Feet			
11								
12								
_								
13								
14								
	_				SESI C	ONSULTING	G ENGINE	FRSDPC

R				
PRO.	JECT NO. 9999 PROJECT Southeast, NY	TEST PIT	NO.	TP- 13
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 627'+	INSPECTE	ED BY	RR
WAT	ER OBSERVATION Seepage at 3'± to 3.5'±	DATE EXC	AVATED	3/5/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE DENSITY OR CONSISTENCY	
0	2-3" Topsoil			
1	Light-brown coarse to fine SAND, some Clayey Silt, little co	arse to	Mediu	ım Dense
	fine Gravel with occassional cobbles			
	(USCS:SM)			
3_				
4				
_	Same as above with mottled Clayey Silt		Mediu	m Dense
5				
-				
6				
'				
8_	End of lest Pit at /± Feet			
9				
_				
10				
-				
11				
12				
'2				
13_				
14				
NOTE:			2	FSI
	Figure 42			



PRO	JECT NO. 9999 PROJECT Southeast, NY TEST PIT	NO.	TP- 14
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 633'+ INSPECT	ED BY	RR
WAT	ER OBSERVATION Seepage at 7.5'± DATE EX	CAVATED	3/6/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE	DENSITY OR
0	8" Topsoil		
1	Light-brown coarse to fine SAND, some Silt, little coarse to fine Gravel,		-
-	with occassional cobbles	Medi	um Dense
2 <u></u>	(USCS : SM/SC)		
3	Light-brown coarse to fine SAND, some clayey Silt, little coarse to		
-	fine Gravel, with occassional cobbles	Medi	um Dense
4	(USCS : SM/SC)		
5—			
7_			
8			
9	End of Test Pit at 8.5± Feet		
_			
10			
11			
12			
-			
13_			
14			
NOTE:		2	FSI



PRO.	JECT NO. 9999 PROJECT Southeast NY TEST		TP- 15
1.00		ECTED BY	DD
MAT			
	ER OBSERVATION Seepage at 7± DATE	EXCAVATED	3/6/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE	E DENSITY OR SISTENCY
0	6" Topsoil		
	Light-brown coarse to fine SAND, some clayey Silt, little medium to fine Gravel, with occassional cobbles (USCS : SM) W.C. = 13.8% (-200) = 34.2%	Med	ium Dense
3 4 	Light-brown coarse to fine SAND, some clayey Silt, little medium to fine Gravel, with occassional cobbles (USCS : SM)	Media	um Dense
5 6 7	Same as above with mottled Clayey Silt and occasional Boulder (USCS: SM)	Med	ium Stiff
	End of Test Pit at 7± Feet		
NOTE:	Figure 45	S	SESI



PRO.	JECT NO. 9999 PROJECT Southeast, NY	TEST PIT NO.	TP- 16
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 629'+	INSPECTED BY	RR
WAT	ER OBSERVATION Seepage at 6'11"±	DATE EXCAVATED	3/6/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIV	E DENSITY OR SISTENCY
0	6" Topsoil		
1_	Light-brown coarse to fine SAND, some Silt, little coarse to flu	ne Medi	um Dense
_	Gravel with occassional cobbles		
2	(USCS : SM)		
-			
3			
-			
4_			
	Same as above with some mottled Clayey Silt, with occassion	al cobbles Med	ium Dense
6			
7			
_			
8	End of Test Pit at 7.5± Feet		
-			
9			
10			
''			
12			
13			
14			
NOTE:			SESI





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PRO.	JECT NO. 9999 PROJECT Southeast, NY	TEST PIT	NO.	TP- 17
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 630'+	INSPECT	ED BY	RR
WAT	ER OBSERVATION NE	DATE EX	CAVATED	3/6/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR
0	8" Topsoil			
	Light brown/Orongo SILT, come coerce to fine Sand, little coer	mo to fina		
	Gravel with occassional cobbles	Se to Tine	Medi	um Stiff
2	(USCS : CL)		MOU	
	(,			
3	Light-brown mottled SILT, some coarse to fine Sand, little coar	rse to fine		
-	Gravel with occassional cobbles and boulders		Med	ium Stiff
4	(USCS : CL)			
<u> </u>				
6				
_				
7				
8	End of Test Pit at 7.5± Feet			
¥—				
10				
_				
11				
_				
12				
13				
14				
NOTE:				
	Elever 47		5	



M ²			r
PRO	PROJECT NO. 9999 PROJECT Southeast, NY TEST F		TP- 18
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 628'+ INSPE	CTED BY	RR
WAT	ER OBSERVATION Seepage at 2'±, Heavy at 3'± DATE	EXCAVATED	3/6/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE	E DENSITY OR BISTENCY
0	7" Topsoil		
1	Light-brown Clayey SILT, some medium to fine Sand, trace Gravel	_	
-	(USCS : CL)	Med	ium Stiff
2			
3	Light-brown mottled Clayey SILT, some coarse to fine Sand, little	Med	ium Stiff
-	coarse to fine Gravel, with occassional cobbles		
4	(USCS : CL)		
5			
6			
7_	End of Test Pit at 6.75± Feet		
·—			
9			
_			
10			
···			
12			
_			
13			
NOTE:		C	FSI
	Figure 48	0,0	NSULTING



PRO	PROJECT NO. 9999 PROJECT Prop. Logistics Center TEST PIT						NO.	TP-18A	
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	659 ±	INSPECT	ED BY	RR	
WAT	ER OBSE	RVATION	S	eepag	e at 8'	DATE EX	CAVATED	4/7/2018	
DEPTH FT.		RELATIVE	DENSITY OR						
0	5" Topsoil								
1 1 2	Light brown SILT, some coarse to fine Sand, trace Gravel with Medium Stiff Cobbles								
3	Brow	vn Clayey Silt, s	some coarse t	o fine (Sand, little coarse to	ofine			
_	Grav	el with Cobble	s and Boulder	\$	·				
4							Med	um Stiff	
5_									
								-	
6									
-									
7			Same	(Mottle	d)		Medi	um Stiff	
8_									
_									
9									
10			End of Test P		+ East				
11			End of Test P	n. at 10	I 1.98(
12									
_									
13									
14									
					SESI CO	ONSULTIN	G ENGINE	ERS D.P.C.	

PRO	JECT NO.	9999	PROJECT	Prop	. Logistics Center	TEST PIT	NO.	TP-18B
LOCATION SEE FIGURE 1		APPROX. ELEV. 645 ± INSPECT		ECTED BY RR				
WATER OBSERVATION Seepage at 9'			e at 9'	DATE EX	CAVATED	4/7/2018		
DEPTH FT.	TH DESCRIPTION / SOIL CLASSIFICATION							DENSITY OR
0	5" To	opsoil						
1								
2	Light	t brown SILT, a	and coarse to	line Sa	ind, trace Gravel wi	th	Med	ium Stiff
	Cobi	Dies						
3	-							
_	Brow	/n Clayey Silt, a	and coarse to	fine Sa	and, little coarse to	fine	Med	ium Stiff
4	Grav	el with Cobble	s and Boulder	8			to	
-								Stiff
5_								
	Sa	me (Mottled S	ilt with weathe	red Mi	ca Schist)			
<u>°</u>								Stiff
7_								
8								
_								
9								
10								
			End of Test P	it at 10	± Feet			
12								
_								
13								
_								
14								
					SESI C	ONSULTIN	G ENGINE	ERS D.P.C.

11-			
PRO	JECT NO. 9999 PROJECT Southeast, NY T	EST PIT NO.	TP- 19
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 619'+	SPECTED BY	RR
WAT	ER OBSERVATION Seepage at 30"± D	ATE EXCAVATED	3/6/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE	E DENSITY OR BISTENCY
0	5" Topsoll		
	Light-brown coarse to fine SAND, some Silt, little coarse to fine		
¹ —	Gravel, with occassional cobbles (USCS : CL)	Mediu	um Dense
2		- 4-	
	fine Gravel with occassional cobbles	Medi	Im Dense
3	(USCS : CL)	Model	
	(,		
4			
_			
5_			
6_			
	End of Test Pit at 6.25± Feet		
/			
8_			
9			
_			
10			
-			
11_			
13			
14			
NOTE:		C	ECI
	Figure 51	0	



PRO.	JECT NO. 9999 PROJECT Southeast, NY TES	T PIT NO.	TP- 20						
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 618' <u>+</u> INSI	PECTED BY	RR						
WATER OBSERVATION Light seepage at 4'± DATE EXCAVATED									
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION RELATIVE COM								
0	6" Topsoil								
1 1 2	 Light-brown SILT, some coarse to fine Sand, little medium to fine Gravel, with occassional cobbles (USCS : CL) 								
	Light-brown mottled SILT, some coarse to fine Sand, little medium to fine Gravel, with occassional cobbles (USCS : CL) End of Test Pit at 7.3± Feet	Med	ium Stiff						
NOTE:	Figure 52	S							



LOCATION SEE FIGURE 1 APPROX. ELEV. 577 ± INSPECTED BY RR WATER OBSERVATION Seepage at 6' DATE EXCAVATED 4/7/2018 DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OR CONSISTENCY 0	PRO	JECT NO.	9999	PROJECT	Prop	Logistics Center	TEST PIT	NO.	TP-20A
WATER OBSERVATION Scepage at 6' DATE EXCAVATED 4/7/2018 DEPTH PT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OR CONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCONSISTENCY OCCO	LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	577 ±	INSPECT	ED BY	RR
DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OR CONSISTENCY 0	WAT	ER OBSE	RVATION	5	Seepag	e at 6'	DATE EX	CAVATED	4/7/2018
0	DEPTH FT.	TH DESCRIPTION / SOIL CLASSIFICATION							E DENSITY OR BISTENCY
Light brown SiLT, and coarse to fine Sand, trace Gravel with Medium Stiff 1 Cobbles 2 Brown Clayey Silt, and coarse to fine Sand, little coarse to fine 3 Gravel with Cobbles and Boulders 4 Medium Stiff 5 Medium Stiff 6 Medium Stiff 5 Medium Stiff 6 Stiff 7 to Stiff 8 Stiff 9 End of Test Pit at 9 ± Feet 10 End of Test Pit at 9 ± Feet 11 Indication 12 Indication 13 Indication 14 Indication	0	4" Te	opsoll						
1 Cobbles 2	-	Light	t brown SILT, a	th	Med	lium Stiff			
2_ Brown Clayey Silt, and coarse to fine Sand, little coarse to fine 3_ Gravel with Cobbles and Boulders 4_ - 5_ Same Mottled (Observed decomposed Mica Schist) 6_ Same Mottled (Observed decomposed Mica Schist) 10_ Same Mottled (Observed decomposed Mica Schist) 11_ Same Mottled (Observed decomposed Mica Schist) 12_ Same Mottled (Observed decomposed Mica Schist) 13_ Same Mottled (Observed decomposed Mica Schist) 14_ Same Mottled (Observed decomposed Mica Schist)	1	Cobl	bles						
2 Brown Clayey Silt, and coarse to fine Sand, little coarse to fine 3 Gravel with Cobbles and Boulders 4 Medium Stiff 4 Medium Stiff 5 Medium Stiff 6 Medium Stiff 6 Stiff 7 Stiff 8 Stiff 9 End of Test Pit at 9 ± Feet 11 I 12 I 13 I 14 I									
	2								
3 Gravel with Cobbles and Boulders 4	-	Brow	vn Clayey Silt, a	and coarse to	fine Sa	and, little coarse to	fine		
	3	Grav	el with Cobble	s and Boulder	5				
4	-							Med	ium Stiff
	4								
5 Same Mottled (Observed decomposed Mica Schist) Medium Stiff 6 to Stiff 7 Same Mottled (Observed decomposed Mica Schist) Medium Stiff 6 to Stiff 7 Same Mottled (Observed decomposed Mica Schist) Medium Stiff 6 Same Mottled (Observed decomposed Mica Schist) Medium Stiff 7 Same Mottled (Observed decomposed Mica Schist) Medium Stiff 7 Same Mottled (Observed decomposed Mica Schist) Medium Stiff 7 Same Mottled (Observed decomposed Mica Schist) Medium Stiff 7 Same Mottled (Observed decomposed Mica Schist) Medium Stiff 7 Same Mottled (Observed decomposed Mica Schist) Medium Stiff 8 Same Mottled (Observed decomposed Mica Schist) Medium Stiff 9 Same Mottled (Observed decomposed Mica Schist) Medium Stiff 10 Same Mottled (Observed decomposed Mica Schist) Medium Stiff 11 Same Mottled (Observed decomposed Mica Schist) Same Mottled (Observed decomposed Mica Schist) 12 Same Mottled (Observed decomposed Mica Schist) Same Mottled (Observed decomposed Mica Schist)<									
	5_	_							
b to		Sa	me Mottled (O	bserved deco	mpose	d Mica Schist)		Medium Stiff	
	6—								to
**** ***** **** ***** ***** ****** ****** ******* ******** ************************************									Stiff
8 9 9 10 11 11 12 13 14									
9	8_								
9End of Test Pit at 9 ± Feet 10 11 12 13 14									
End of Test Pit at 9 ± Feet 10 11 12 13 14	9								
10 11 12 13 14	_			End of Test F	Pit at 9	± Feet			
$ \begin{array}{c} - \\ 11 \\ - \\ 12 \\ - \\ 13 \\ - \\ 14 \\ \end{array} $	10								
11 12 13 13 14									
	11								
12 13 14	_								
 13 14	12								
13 14	—								
 14	13								
	14								
PRO	JECT NO. 9999 PROJECT Southeast, NY TEST	PIT NO.	TP-21						
--------------	-------------------------------------------------------------------	-----------	--------------------------						
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 618'+ INSPE	CTED BY	RR						
WAT	ER OBSERVATION Light seepage at 5'9"± DATE	EXCAVATED	3/6/2018						
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE	E DENSITY OR BISTENCY						
0	2" Topsoll								
	Light-brown/yellow coarse to fine SAND, some Silt, trace Gravel	Med	um Dense						
	(USCS:SM)								
2	Light-brown Clayey SILT, some coarse to fine Sand, little medium								
_	to fine Gravel with occassional cobbles	Medi	um Stiff						
3	(USCS : CL)								
4_	Light-brown mottled Clayey SILT, some coarse to fine Sand, little								
	medium to fine Gravel with occassional cobbles	Medi	um Stiff						
5	(USCS : CL)								
6									
7_									
8	End of Test Pit at 7.6± Feet								
_									
9									
-									
11									
12									
13									
NOTE									
		5							



PRO	JECT NO. 9999 PROJECT Southeast, NY TEST	PIT NO.	TP- 22
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 616'+ INSPE	CTED BY	RR
WAT	ER OBSERVATION Light seepage at 1'8"±; Heavy at 5'± DATE	EXCAVATED	3/6/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIV	E DENSITY OR BISTENCY
0	8" Topsoll		
1	Light-brown coarse to fine SAND, some Silt, little coarse to fine		
	Gravel with occassional cobbles	Med	ium Dense
2	(USCS : SM)		
3_			
	Light-brown mottled Clayey SILT, some coarse to fine Sand, little coarse		
4	to fine Gravel with occassional cobbles		
-	(USCS : CL)	Med	ium Stiff
5			
7_			
8			
_	End of Test Pit at 8.1± Feet		
9			
10_			
_			
12			
_			
13			
		S	5ESI



PROJ	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-22A
LOC	ATION	SEE FIGURE 1	APPROX. E	PPROX. ELEV. 582 ± INSPECT		ED BY	RR	
WATI	ER OBSEI	RVATION	Hear	vy See	page at 8'	DATE EX	CAVATED	4/7/2018
DEPTH FT.	DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION							DENSITY OR
0	5" To							
_[Light	t brown SILT, a	and coarse to	fine Sa	and, trace Gravel wit	h	Med	ium Stiff
1	Cobl	bles						
-								
2								
³ —								
4	Brow	m Clavay Silt	and accreate	fine Sc	and little second to f		Mod	una Chiff
	Grav	n Clayey Sill, a	and Boulder		and, little coarse to h	ine	Med	ium Sun
5	Ciav			0				
_								_
6							Medi	um Stiff
_								
7	Sa	me (Mottled S	ilt)					то
-								
8							5	Stiff
⁹ —								
10								
_			End of Test P	lt at 10	± Feet			
11								
_								
12								
_								
13								
14								

PRO.	JECT NO. 9999 PROJECT Southeast, NY	TEST PIT	NO.	TP- 23
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 615'+	INSPECTE	DBY	RR
WAT	ER OBSERVATION Seepage at 5'3"±	DATE EXC	AVATED	3/6/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE CONS	DENSITY OR
0	3" Topsoil			
-	Light-brown coarse to fine SAND, some Silt, little coarse to f	ine Gravel	Medi	um Dense
1	(USCS : SM)			
-				
2_				
-				
3				
	Light-brown coarse to fine SAND, some mottled Silt, little coarse to	fine Gravel,	Mediu	m Dense
4—1	with occassional cobbles and boulders			
	(USCS : SM)			
5—				
°				
_				
8	End of Test Pit at 7.3± Feet			
9				
10				
11				
_				
12				
13				
_				
14				
NOTE:			S	ESI
	Figure 57		00	NSULTING

15										
PRO	JECT NO.	9999	PROJECT	Sou	theast, NY	TEST PIT	NO.	TP- 24		
LOC	ATION	SEE FIGURE 1	APPROX. EL	.EV.	614' <u>+</u>	INSPECT	ED BY	RR		
WAT	ER OBSER		Seepage at 4'±	_		DATE EX	CAVATED	3/6/2018		
DEPTH FT.		DESC	CRIPTION / SOIL	. CLASS	FICATION		RELATIVE	E DENSITY OR BISTENCY		
0	4" To	psoll								
-	Light-	brown/yellow	Clayey SILT, so	me coar	se to fine SAND,	trace Gravei	Med	lum Stiff		
1 <u> </u>	(USC	S : CL)								
2	Light-	-brown coarse	to fine SAND,	some Si	it, little medlum t	o fine	Medi	Medium Dense		
	Grave	el with occass	ional cobbles (USCS :	SM)		i			
3	Light-	brown mottled	d Clayey SILT, s	some co	arse to fine San	d, little				
-	mediu	um to fine Gra	vel, with occase	sional co	bbles and bould	ers	Med	ium Stiff		
4—	(USC	S : CL)								
5										
°—										
7										
			End of Test Pi	it at 7± F	eet					
8										
_										
9										
			8							
10										
-										
11										
12										
13										
14										
NOTE:							S	FSI		
			Figure 58					NSULTING		

1 ¹							
PRO	JECT NO.	9999	PROJECT	Southeast, NY	TEST PIT	'NO.	TP- 25
LOC	ATION	SEE FIGURE 1	APPROX. ELE	EV. 615' <u>+</u>	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	Seepage at 4.5'	ŧ	DATE EX	CAVATED	3/6/2018
DEPTH FT.		DESC	CRIPTION / SOIL	CLASSIFICATION		RELATIVE	DENSITY OR
0	6" T	opsoil					
	Ligh (US	t-brown/yellow CS : SM)	coarse to fine S.	AND, some Silt, trace (Gravel	Mediu	im Dense
2 <u> </u>	Ligh with	t-brown coarse occassional co	to fine SAND, s obbles	ome mottled Silt, trace	Gravel,	Mediu	im Dense
4 <u> </u>	(US	CS : SM)					to
5 6						D	ense
7 7 8			End of Test Pit a	at 6.4± Feet			
9 <u>—</u> 9—							
10							
11							
12							
13 <u> </u>							
14							
			Figure 59			5	ESI NSULTING

-			
PRO	JECT NO. 9999 PROJECT Southeast, NY	TEST PIT NO.	TP- 26
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 602'+	INSPECTED BY	RR
WAT	ER OBSERVATION Seepage at 6'1"±	DATE EXCAVA	TED 3/6/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	REL	ATIVE DENSITY OR CONSISTENCY
0	3" Topsoil		
1	Light-brown SILT, some coarse to fine Sand, trace Gravel, v	vith	Medium Stiff
2			
	Light-brown mottled SILT, some coarse to fine Sand, trace C	Gravel,	Medium Stiff
<u> </u>	with high frequency of boulders		
4	(0303.01)		
5			
-			
6			
7_			
_	End of Test Pit at 7.25± Feet		
8			
9—			
10			
11			
12			
13			
14			
NOTE:		l	SESI
	Figure 60		CONSULTING

LOCATION SEE FIGURE 1 APPROX. ELEV. 636'± INSPECTED BY RR WATER OBSERVATION Seepage at 6.5'± DATE EXCAVATED 4/16/2018 DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OR CONSISTENCY 0 4" Topsoil Image: Constraint of the send, trace Gravel, with cobbles and boulders (USCS : CL) Medium Stiff 2 Image: Constraint of the send, trace Gravel, with cobbles and boulders Medium Stiff Medium Stiff 3 With cobbles and boulders Medium Stiff Medium Stiff 4 Image: Constraint of the send, trace Gravel, with cobbles and boulders Medium Stiff 4 Image: Constraint of the send, trace Gravel, with cobbles and boulders Medium Stiff 4 Image: Constraint of the send, trace Gravel, medium Stiff Medium Stiff 5 Image: Constraint of the send, trace Gravel, medium Stiff Medium Stiff 4 Image: Constraint of the send, trace Gravel, medium Stiff Image: Constraint of the send, trace Gravel, medium Stiff 6 Image: Constraint of the send send, trace Gravel, medium Stiff Image: Constraint of the send send send send send send send sen	PRO.	JECT NO. 9999 PROJECT Southeast, NY	TEST PIT NO.	TP- 27	
WATER OBSERVATION Seepage at 6.5± DATE EXCAVATED 4/16/2018 DEPTH Fr. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OR CONSISTENCY 0 4* Topsoil 1 1 Light-brown SiLT, and coarse to fine Sand, trace Gravel, with cobbles and boulders (USCS : CL) Medium Stiff 2 Brown SiLT, and coarse to fine Sand, trace Gravel, with cobbles and boulders (USCS : CL) Medium Stiff 4 - - - 5 - - 8 - - 9 End of Test Pit at 8± Feet - 9 - - 11 - - 12 - - 13 - - 14 - - 12 - - 13 - - 14 - -	LOC	ATION SEE FIGURE 1 APPROX. ELEV. 636'+	INSPECTED BY	RR	
DEPTH Fr. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OR CONSISTENCY 0 4" Topsoil	WAT	ER OBSERVATION Seepage at 6.5'±	DATE EXCAVATED	4/16/2018	
0- 4" Topsoli 1- Light-brown SILT, and coarse to fine Send, trace Gravel, with cobbles and boulders (USCS : CL) Medium Stiff 2- Brown SILT, and coarse to fine Sand, trace Gravel, with cobbles and boulders (USCS : CL) Medium Stiff 4- - - 5- Same motiled SILT Medium Stiff 6- - - 7- - - 8- - - 9- - - 10- - - 11- - - 12- - - 13- - - 14- - -	DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVI	E DENSITY OR BISTENCY	
1 Light-brown SILT, and coarse to fine Sand, trace Gravel, with cobbles and boulders (USCS : CL) Medium Stiff 2 Brown SILT, and coarse to fine Sand, trace Gravel, with cobbles and boulders (USCS : CL) Medium Stiff 3 with cobbles and boulders (USCS : CL) Medium Stiff 4 (USCS : CL) Medium Stiff 5 Same motiled SILT Medium Stiff 6 End of Test Pit at 8± Feet Medium Stiff 10 11 11 11 11 11 12 13 14	0	4" Topsoil			
2 Brown SiLT, and coarse to fine Sand, trace Gravel, with cobbles and boulders (USCS : CL) Medium Stiff 4 - - 5 - Same mottled SILT 6 - - 7 - 8 - 9 - 10 - 11 - 12 - 13 -		Light-brown SILT, and coarse to fine Sand, trace Gravel, with cobbles and boulders (USCS : CL)	n Med	Medium Stiff	
S Seme mottled SILT Medium Stiff 6 - - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 -	2 3 4	Brown SILT, and coarse to fine Sand, trace Gravel, with cobbles and boulders (USCS : CL)	Med	ium Stiff	
B	5 6 7	Same mottled SILT	Med	ium Stiff	
		End of Test Pit at 8± Feet			
	10 11 12 13 14				



PRO	PROJECT NO. 9999		PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-27A
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	635 ±	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION		NE		DATE EX	CAVATED	4/7/2018
DEPTH FT.		DESC	RIPTION / SO		SIFICATION			DENSITY OR
0	Tops	soll with Light B	rown SILT, a	nd coars	se to fine Sand, tra	ice		
-	Grav	el with occasio	nal Cobbies					
1								
-								
2								
3								
	Light Brown SILT, and coarse to fine Sand, light coarse to fine							ium Stiff
- 4	Grav		s and Boulder	8		6		
5	Brown Clayey SIL I, and coarse to fine Sand, light coarse to fine							Sun
	Grav			8 (998	unered boulders/b	Barock)		
6								
_	Si	ame (Mottled S	iit)					
7								
-								
8								
-								
9								
			End of Test F	Pit at 9 ±	Feet			
10								
12_								
	•							
13_								
14								
	SESI CONSULTING ENGINEERS D.P.C.							

PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-27B
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	629 ±	INSPECT	ED BY	RR
WAT	ER OBSEI	RVATION	S	eepage	at 10'	DATE EX	CAVATED	4/7/2018
DEPTH FT.		DESC	CRIPTION / SO		SSIFICATION		RELATIVE	DENSITY OR
0	— Topsoll							
1 2 3 4	 Light brown SILT, some coarse to fine Sand, trace Gravel with Cobbles and Bouiders 							
5 6 	Brown Clayey SILT, and coarse to fine Sand, little coarse to fine Gravel with Cobbles and Boulders (Weathered Rock/Boulder)							
7 8 9 	Same (Mottled Silt) Stiff							Stiff
10 11 12 13			End of Test P	it at 10	± Feet			
 14								FRSDPC

PRO.	JECT NO.	9999	PROJECT	Southeast.		ST PIT	NO.	TP- 28
LOC	ATION	SEE FIGURE 1	APPROX. EL	EV. 621'	+ IN	SPECT	ED BY	RR
WAT			Seenade of 21 th	t: Home at 4 5'	···	TEEV		2/2/2010
			Soopayo al 21	r, noavy at 4.5:			CAVATED	3/0/2010
DEPTH FT.		DES	CRIPTION / SOIL	CLASSIFICATIO	N		RELATIVE	DENSITY OR
0	3" T	opsoil						
	Ligh	t-brown SILT,	some coarse to	fine Sand, trace	Gravel, with			
¹ —	OCCa	assional cobble	8				Mediu	im Dense
	(US	CS : CL)						
2								
	Ligh	t-brown mottle	d SILT, some co	erse to fine Sar	nd, trace Grav	el,	Med	ium Stiff
3 —	with		oddies					
	(03)	CS:CL)						
5_								
6								
_								
7								
			End of Test Pi	t at 7± Feet				
8								
_								
9								
_								
10								
—								
11								
12								
13								
14								
NUIE:			Eigure 64				S	ESI



PRO	JECT NO. 9999 PROJECT Southeast, NY TE	ST PIT NO.	TP- 29	
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 621'± INS	SPECTED BY	RR	
WAT	ER OBSERVATION Seepage at 3.5'± DA	TE EXCAVATED	4/16/2018	
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVI	E DENSITY OR BISTENCY	
0	4" Topsoil			
	Yellow-brown SILT, and coarse to fine Sand, trace Gravel, with			
1-	cobbles (USCS : CL)	Med	Medium Stiff Medium Stiff	
2	Brown SILT, and coarse to fine Sand, little coarse to fine Gravel,			
3	with cobbles and occasional boulders (USCS: CL)	Med	lium Stiff	
4				
	Same mottled SILT			
5				
		Med	ium Stiff	
6				
7—				
8				
	End of Test Dit at 8+ Eest			
9				
10				
-				
11				
12				
13				
14				
NOTE:			FSI	



PRO.	JECT NO.	9999	PROJECT	Sou	utheast, NY	TEST PIT	NO.	TP- 30
LOC	ATION	SEE FIGURE 1	APPROX. EL	EV.	612'±	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	Seepage at 2'±			DATE EX	CAVATED	4/16/2018
DEPTH FT.		DES	CRIPTION / SOIL	CLASS	SIFICATION		RELATIVE	DENSITY OR
0	4" Te	opsoil						
	Ligh	t-brown SILT,	vith					
1_	cobb	oles (USCS : C		Med	ium Stiff			
	_							
2 —	Brov	VINSILI, and C	oarse to fine Sa	nd, little	e coarse to fine G	Fravel,		0.007
3_	With	CODDIES (USC	5: CL)				Med	um Stm
	Sam	e mottled SII 1	-					
4							Med	um Stiff
_								
5								
	Brow	n SILT, and c	parse to fine Sa	nd, little	coarse to fine G	iravel,	Med	um Stiff
6	with	cobbles (grave	l fequency incre	ased w	/ith depth)			
-								
7								
°—			End of Tool D					
9			End of Test Pit	at 8± 1	-86[
10								
11								
12								
-								
13								
14-								
NOTE:			F i 00				S	ESI



PRO	JECT NO. 9999 PROJECT Southeast, NY T	EST PIT NO.	TP- 31
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 618'±	ISPECTED BY	JQ
WAT	ER OBSERVATION Seepage at 7.5'± D	ATE EXCAVATED	4/17/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVI	E DENSITY OR BISTENCY
0	3" Topsoll		
-	Yellow-brown SILT, and coarse to fine Sand, trace Gravel, with		
1	cobbles (USCS : CL)	Mec	lium Stiff
2	Light-brown SILT and coarse to fine Sand, little Sand, little coars	se	
	to fine Gravel, with cobbles (USCS : CL)	Med	ium Stiff
3			
	Light brown motified OILT, and as seen to find One One 1. 1991		
5_	tignt-brown motuled SILI, and coarse to fine Sand, little coarse	10	
	The Graver, with occasional cobbles (USCS : CL)		tum Off
6		Med	ium Stim
7_			
8			
_			
9			
_			
10			
_	End of Test Plt at 10± Feet		
11			
_			
12			
_			
13			
—			
14			
NOTE:		9	FSI



16 m				
PRO	JECT NO. 9999 PROJECT Southeast, NY	TEST PIT	NO.	TP- 32
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 602'±	INSPECTI	ED BY	JQ
WAT	ER OBSERVATION Seepage at 5'±	DATE EX(CAVATED	4/17/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR
0 <u> </u>	8" Topsoil			
1	Light-brown/yellow-brown SILT, and coarse to fine Sand, trac Gravel (USCS : CL)	ce	Med	ium Stlff
2				
3_	Light-brown SILT, and coarse to fine Sand, little coarse to fin	6	Medi	ium Stiff
_				
4	Light-brown mottled SILT, and coarse to fine Sand, little coar	rse to		
5	fine Gravel, with occasional cobbles (USCS : CL)		Medi	um Stiff
-				
6				
7_				
°—				
9				
10				
	End of Test Pit at 10± Feet			
11				
_				
13				
 14				
NOTE:		S	ESI	
	rigure bo		00	NAULTING

PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	TEST PIT NO.	
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	603'±	INSPECT	ED BY	JQ/RR
WAT	ER OBSE	RVATION	S	eepage	e at 7'±	DATE EX	CAVATED	4/17/2018
DEPTH FT.		DESC	RIPTION / SO		SSIFICATION		RELATIVE	DENSITY OR
0	4" T	opsoli						
1	Yello	ow-brown/Light	race Gravel					
_	Ligh	t-brown SILT, a	îne					
2	Grav	vel, with occasi						
-	Infilt	ration Rate at e						
3								
4								
5	Link	4 h			for a Decid Phil			
	Lign	t-Drown motued	ISILI, and co	arse to	Tine Sand, little coa	arse		
6_	to in	ie Gravel, with	occasional co	opies				
_								
7_								
8								
-			End of Test F	Pit at 81	Feet			
9								
10								
11								
12								
_								
13								
—								
14								
		SESI CONS	ULTING E	NGINEERS				

PRO	JECT NO.	9999	TEST PIT	NO.	TP-34			
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	600'±	INSPECT	ED BY	JQ/RR
WAT	ER OBSE	RVATION	S	eepage	ə at 7'±	DATE EX	CAVATED	4/17/2018
DEPTH FT.		DESC	RIPTION / SO	IL CLA	SSIFICATION			E DENSITY OR BISTENCY
0	4" T	opsoil						
1	Yello Grav	race						
2	Infilt	ration Rate at e	ol. 598.5 = 30.0	ô in/hr				
	Ligh	t-brown SILT, a	and coarse to	fine Sa	ind, little coarse to f	îne		
3	Grav	el, with occasi	onal cobbles					
4—								
5								
6								
_	Light	t-brown mottled	SILT, and co	arse to	fine Sand, little co	arse		
7	to fin	e Gravel, with	occasional co	bbles	· · · · · · · · · · · · · · · · · · ·			
_								
8								
-								
9								
	-			14 of 44	u E-at			
			Eria of 1 est P	n at 10	T F66 [
12	-							
_								
13								
_								
14								
-						SESI CONS	ULTING E	NGINEERS

PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	'NO.	TP-35	
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	599'±	INSPECT	ED BY	JQ/RR	
WAT	ER OBSE	RVATION	No	t Enco	untered	DATE EX	CAVATED	4/17/2018	
DEPTH FT.		DESC	RIPTION / SO		SSIFICATION		RELATIVE	DENSITY OR	
0	4-5"	Topsoil							
1	Yello fine								
2 3	Ligh Grav	t-brown SILT, a vel, with occasi	and coarse to onal cobbles	fine Sa	nd, little coarse to	fine			
 4									
5. <u></u> 6	Infilt	ration Rate at E	:l. 595 ≕ 29.5 i	n/hr					
7_	Light to fin	t-brown mottled	I SILT, and co	arse to	fine Sand, little co	arse			
	10 11			DICO					
8									
9									
10									
_			End of Test P	lt at 10	± Feet				
11									
12									
13									
_									
14									
	SESI CONSUL								

PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-36
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	623' <u>+</u>	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	S	eepage) at 2' <u>+</u>	DATE EX	CAVATED	5/1/2018
DEPTH FT.		DESC	CRIPTION / SO	IL CLA	SIFICATION			DENSITY OR
0	4" Topsoil							
1	Brov	wn clayey Silt, s	ith occasional	Medi	um Stiff			
2_	San	cobbles and	bouiders					
	Gair		1,				Med	ium Stiff
3								
4								
						1		
5								
_								
6								
	End	of Test Dit at 7	+ East					
8	Eng	UT TOSL FIL AL T						
_								
9								
_								
10								
11_								
12								
-								
13								
14				_		SEGI CONO		NOINEEDO

PRO	JECT NO.	9999	TEST PIT	NO.	TP-37			
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	607' <u>+</u>	INSPECT	ED BY	RR
WAT	ER OBSEI	RVATION	Se	epage	at 6.5' <u>+</u>	DATE EX	CAVATED	4/31/2018
DEPTH FT.		DESC	RIPTION / SO		SSIFICATION			E DENSITY OR SISTENCY
0	4" Topsoil							
	Linkt Dam	- 014			0.110			
	Light Brow	n Siit, and coai	ional cobbies	Medi	um Stiff			
2								
°—	Brown Silt	, and coarse to	ith	Med	ium Stiff			
4	occasiona		ouiders					
_	Infiltration	Rate at Ei. 604	= 4.5 in/hr					
5								
6	Sam	e Mottled Silt					Medi	um Stiff
7								
_								
8 <u> </u>								
9								
—	End o	of Test Pit at 9	<u>-</u> Feet					
10								
12								
—								
13								
14								
						SESI CONS		NGINEERS

PRO	JECT NO.	9999	r TEST РП	NO.	TP-38			
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	600' <u>+</u>		ED BY	RR
WAT		RVATION	S	eepage	e at 4' <u>+</u>	DATE EX	CAVATED	4/31/18
DEPTH FT.		DESC	CRIPTION / SO	il Clas	SSIFICATION		RELATIVE	DENSITY OR
0	4" Topsoll							
1 <u> </u>	Light Brown	n Silt, and coarse	bbles and boulders	Medi	um Stiff			
2 <u> </u>	Brown clay with occas	yey Slit, and co sional cobbles a	Gravel	Med	ium Stiff			
3	Infiltration	Rate at El. 604						
4	Same M	ottled Slit		Med	ium Stiff			
5								
_								
6								
7_				_				
_	End	of Test Pit at 7	<u>'+</u>					
8								
9_								
10								
12								
13								
14								
						SEGI CONS		NCINEEDO

PRO	JECT NO.	9999	TEST PIT	NO.	TP-39				
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	608' <u>+</u>	INSPECT	ED BY	RR	
WAT		RVATION	Seepage at 4	' <u>+</u> / star	nding water at 7' <u>+</u>	DATE EX	CAVATED	4/31/2018	
DEPTH FT.		DES	CRIPTION / SO	IL CLAS	SIFICATION		RELATIVE	DENSITY OR	
0	4" Topsoil								
1 2	Light Brown Silt, and coarse to fine Sand, trace Gravel with occasional cobbles Medium Infiltration at El.606 = 30.6 in/hr								
3	Brown clay occasiona		Mədi	ium Stiff					
4 5	Same M	ottled Silt		Medi	um Stiff				
6 <u> </u>									
7 <u> </u>									
9	End of Tes	it Pit at 8 <u>+</u> Fee	t						
10									
11									
_									
14									

PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-40
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	598' <u>+</u>	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	S	eepage	ə at 9' <u>+</u>	DATE EX	CAVATED	4/31/18
DEPTH FT.		DESC	RIPTION / SO		SSIFICATION			DENSITY OR
0	4" Topsoil							
	Light Brow	n Silt, and coa	rse to fine San	d, trace	e Gravel with occa	sional cobbles	Med	ium Stiff
1								
2_	Brow	wn clayey Silt, a	ine Gravel with					
	occas	Sional Coddies	and douiders				Med	ium Stiff
3								
_	Infiltr	ration Rate at E	i. 595 = 12 in/	/hr				
4								
-								
5								
_	Sam	e Mottled Silt	:				Mediu	um Stiff
6								
						1		
8								
_								
9								
—	End	of Test Pit at 9 <u>-</u>	<u>+</u> Feet					
10								
11								
12								
12								
13								
14								
Server 1						SESI CONS	ULTING E	NGINEFRS

PRO	JECT NO.	9999	г NO .	TP-41					
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	596' <u>+</u>	INSPECT	ED BY	RR	
WAT	ER OBSEI	RVATION	Se	epage	at 6.5' <u>+</u>	DATE EX	CAVATED	4/31/18	
DEPTH FT.		DES	CRIPTION / SO		SSIFICATION		RELATIVE	DENSITY OR	
0	4" Topsoll								
-	Light Brow	n Silt, and coa	slonal	Med	lum Stiff				
1	cobbles								
-									
2									
-	Brown clay	vey Silt, and co	arse to fine S	and, liti	tie coarse to fine G	ravel	Med	lum Stiff	
3	with occas	ional cobbles a	and boulders						
	Infiltration	Rate at el. 592	? = 12in/hr.						
4									
-	0								
5									
—	Sam	e Mottled Silf	t				Mediu	um Stiff	
6									
—									
7									
—									
8									
_									
9									
-									
10	1								
—			End of Test P	it at 10	<u>+</u> Feet				
11									
_									
12									
13									
—									
14	4								
					5	SESI CONS	ULTING E	NGINEERS	

F				
PRO.	JECT NO. 9999 PROJECT Prop. Logistics Center	NO.	TP- 42	
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 596'±	INSPECT	ED BY	JQ
WAT	ER OBSERVATION Seepage at 12"±;	DATE EX	CAVATED 4/31/2018	
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE DENSITY OF	
0	4" Topsoil			
1	Light-brown SILT, some coarse to fine Sand, trace Gravel, v occassional cobbies	vith	Med	ium Stiff
2 3				
4 5	Light-brown mottled SILT, some coarse to fine Sand, trace C with occassional cobbles and occasional boulder (USCS : SC/CL)	Medium Stiff		
6 <u> </u>				to
7			Ş	Stiff
8 	End of Test Pit at 7.5± Feet			
9 <u> </u>				
10 <u> </u>				
11				
NOTE:			C	EQI
	Fig. 78		3	

PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-43
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	596' <u>+</u>	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	Se	epage	at 3.5' <u>+</u>	DATE EX	CAVATED	4/31/18
DEPTH FT.		DESC	RIPTION / SO	IL CLAS	SSIFICATION		RELATIVE DENSITY OR CONSISTENCY	
0	5" Topsoil							
1 2	L	ight Brown Silt, occasional co	with	- Medium Stiff				
3_	Brown clay	vey Silt, and coa	rse to fine Sar	nd with	occasional cobbles	and boulders	Medi	um Stiff
4 4 5	Same N	fottled Silt					Medi	um Stiff
6								
7	End	of Test Pit at 6.	5 <u>+</u> Feet					
8								
9								
_								
¹⁰ —								
11								
13								
14								
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PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PI	ΓNO.	TP-43A
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	603 ±	INSPECT	ED BY	RR
WAT	ER OBSEI	RVATION	Se	epage	at 4.75'	DATE EX	CAVATED	4/7/2018
DEPTH FT.		DESC	RIPTION / SO	IL CLA	SSIFICATION		RELATIVE	DENSITY OR
0	4" To	opsoíl						
-	Light	t brown SILT					Med	ium Stiff
1								
2								
	Brow	m Clovery Silt						
4	DIOW	IT Clayey Sill						
	Sa	me (Mottled S	it)					
5			,					
_								
6								
7								
8								
<u> </u>								
10								
_		i	End of Test Pi	it at 10	± Feet			
11								
_								
12								
_								
13								
14								

PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	'NO.	TP-44		
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	584' <u>+</u>	INSPECT	ED BY	RR		
WAT		RVATION	S	eepage	ə at 3' <u>+</u>	DATE EX	(CAVATED4/31/18			
DEPTH FT.		DESC	RIPTION / SO	IL CLA	SSIFICATION			DENSITY OR		
0	4" Topsoil									
1 1 2	Light Brown Silt, and coarse to fine Sand, trace Gravel with cobbles Medium Stiff									
3	Mottled Br	rown clayey Silt	o fine	Medi	ium Stlff					
4										
-										
5										
_										
<u> </u>										
7_						1				
	End	of Test Pit at 7	+ Feet							
8										
_										
9								(
10										
12										
_										
13										
_										
14										

PRO	JECT NO.	9999	PROJECT	Prop	. Logistics Center	TEST PIT	'NO.	TP-44A
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	582 ±	INSPECT	ED BY	RR
WAT	ER OBSEI	RVATION	Light Seepage	at 3' H	leavy Seepage at 7'	DATE EX	CAVATED	4/7/2018
DEPTH FT.		DES	CRIPTION / SO	IL CLA	SSIFICATION		RELATIVE DENSITY OF CONSISTENCY	
0	4" To	opsoil						
1								
	Light	t brown SILT,	and coarse to	fine Sa	ind, trace Gravel wit	lh	Med	ium Stiff
	Cobt	bles						
3_								
4								
_								
5	Brow	n Clayey Mott	oarse	Medi	um Stiff			
_	to fin	e Gravel with						
6								
-								
7								
°—								
9			End of lest P	rit at 8 :	± Feet			
10								
11								
_								
12								
-								
13								
14					OFOL OF			

1				_				
PRO	JECT NO.	T NO.	TP-45					
LOC	ATION	SEE FIGURE 1	APPROX. E	ELEV.	584 ±	INSPEC	TED BY	RR
WAT	ER OBSE	RVATION	Se	epage	@ 5 <u>+</u> '	DATE EX	CAVATED	4/31/2018
DEPTH FT.		DES	CRIPTION / SO		SSIFICATION		RELATIVE DENSITY OF CONSISTENCY	
0	4" T	opsoil						
	Ligh	t brown SILT, a						
1	Cob	bles	Med	ium Stiff				
2	Brow	vn Clavev Motti	Mod					
	to fir	INIGO	ium Sun					
3								
_	infilt							
4								
5	Sam	e (Mottled S	ilt)				Medi	um Stiff
6								5
7_								
8								
-								
9								
10					— .			
			End of Test P	'it at 8 ±	E Feet			
11								
_								
12								
13								
14								
					SES		g Engine	ERS D.P.C.

PRO	JECT NO.	9999	PROJECT	So	outheast, NY	TEST PIT	NO.	TP- 46		
LOC	ATION	SEE FIGURE 1	APPROX. EL	EV.	581' <u>+</u>	INSPECT	ED BY	JQ		
WAT	ER OBSE	RVATION	Seepage at 2'3	"±; He	avy at 4.0'±	DATE EX	CAVATED	3/22/2018		
DEPTH FT.		DES	CRIPTION / SOIL	. CLAS	SIFICATION		RELATIVE DENSITY OR CONSISTENCY			
0	8" T	opsoil								
1 2	 Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles (USCS : SC/CL) Infiltration Rate at El. 579 = 13 in/hr 									
3 4 5 6 7 8 9	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles (USCS : SC/CL)									
10 11 12 13 14			End of Test Pit	at 9.3	± Feet					
NOTE:			Figure 84				S	ESI		

LOCATION SEE FIGURE 1 APPROX. ELEV. 583'± INSPECTED BY RR WATER OBSERVATION Seepage at 7'± DATE EXCAVATED 4/31/18 DEFTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY CONSISTENCY 0- 4" Topsoil
WATER OBSERVATION Seepage at 7'± DATE EXCAVATED 4/31/18 DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY CONSISTENCY 0 4" Topsoll Image: Consistency Image: Consistency 1 Ight Brown Slit, and coarse to fine Sand, trace Gravel with occasional cobbles Medium Stiff 1 Brown clayey Silt, and coarse to fine Sand, trace Gravel with occasional cobbles Medium Stiff 2 Occasional cobbles and boulders Medium Stiff 3 Infiltration Rate at El. 581 = 17 in/hr Medium Stiff 4 Same Mottled Silt Medium Stiff 8 9 Image: Construction of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set of the Same set
DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY C CONSISTENCY 0 4" Topsoll
0 4* Topsoll Medium Stiff 1 Light Brown Sift, and coarse to fine Sand, trace Gravel with occasional cobbles Medium Stiff 1 Brown clayey Silt, and coarse to fine Sand, trace Gravel with occasional cobbles and boulders Medium Stiff 2 occasional cobbles and boulders Medium Stiff 3 Infiltration Rate at El. 581 = 17 in/hr Medium Stiff 4
Light Brown Silt, and coarse to fine Sand, trace Gravel with occasional cobbles Medium Stiff 1 Brown clayey Silt, and coarse to fine Sand, trace Gravel with occasional cobbles and boulders Medium Stiff 2 occasional cobbles and boulders Medium Stiff 3 Infiltration Rate at El. 581 = 17 in/hr Medium Stiff 4 Same Mottled Silt Medium Stiff 6 - - 9 - -
Image: Second system Brown clayey Silt, and coarse to fine Sand, trace Gravel with occasional cobbles and boulders Medium Stiff Image: Second system Image: Second system Medium Stiff Image: Second system Second system Medium Stiff Same Medium Stiff Medium Stiff
2 occasional cobbles and boulders Medium Stiff 3
3 Infiltration Rate at El. 581 = 17 in/hr 4
- Infiltration Rate at EI. 581 = 17 in/hr 4 - 5 Same Mottled Silt 6 - 7 Medium Stiff 8 - 9 -
4
5 Same Mottled Silt Medium Stiff 6
Same Mottled Silt Medium Stiff 6
7 8 9
8 9
9
End of Test Pit at 9+ Feet
10
11
13
14

PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-48	
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	581' <u>+</u>	INSPECT	ED BY	RR	
WAT		RVATION	Se	epage	at 7.5' <u>+</u>	DATE EX	(CAVATED4/31/18		
DEPTH FT.		DESC	RIPTION / SO		SSIFICATION		RELATIVE DENSITY OF CONSISTENCY		
0	4" Topsoil								
								0.117	
		ignt Brown Silt, with occasic	tine Gravel	Medi	um Stiff				
2									
-	Brow	vn clayey Silt, a	ine Gravel	Med	lum Stiff				
3	with o	ccasional cobb							
	Infiltration	Rate at El. 578							
5									
_	Sam	e Mottled Sill					Medi	um Stiff	
6									
/									
8									
_									
9									
10			End of Test D	it at 10	+ East				
11			End of Test P	n at 10	<u>- Laar</u>				
_									
12									
_									
13									
14									
لي				-				NCINEEDS	

PRO	JECT NO.	9999	TEST PI	T NO.	TP-49				
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	586' <u>+</u>	INSPEC	TED BY	RR	
TAW	ER OBSEI	RVATION	Se	epage at	10.5' <u>+</u>	DATE EX	EXCAVATED5/1/2018		
DEPTH FT.		DESC	RIPTION / SO		BIFICATION		RELATIVE DENSITY OR CONSISTENCY		
0	4" Topsoil								
1	Fi	III- Light Brown occasional col	Silt, and coar oble, brick, an	se to find d concre	e Sand, trace (te	Gravel with			
2 <u> </u>	FIIL B	rown clavey Sil							
3	with o	ccasional cobb							
_									
4									
ə									
6									
_									
7_									
-									
8									
	Same	e (Bottom of I	Footing from p	pervious	residence)		Medi	um Stiff	
»									
10	Same	e Mottled Silt					Stiff		
_									
11									
-	End o	of Test Pit at El	. 11 <u>+</u> Feet						
12									
12									
14									

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PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-50			
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	588' <u>+</u>	INSPECT	ED BY	RR			
WAT	ER OBSE	RVATION		N/E		DATE EX	CAVATED	5/1/2018			
DEPTH FT.		DESC	RIPTION / SO	IL CLAS	SIFICATION		RELATIVE DENSITY OF CONSISTENCY				
0	4" Topsoil										
1 2	Fill- Light Brown Silt, some coarse to fine Sand, trace Gravel with occasional cobbles (Existing Drain line observed at 2 Feet below Grade)										
3 4 5	Brown clayey Silt, and coarse to fine Sand, little coarse to fine Gravel Medium Stiff with cobbies and boulders										
6 7 8											
9 10 11	Same M	ottled Silt					Medi	um Stiff			
12 12 13	End of Test Pit at 11+ Feet										
14						ESI CONS		NGINEEDO			

PRC	JECT NO.	9999	PROJECT	Prop	. Logistics Center	TEST PIT	NO.	TP-50A			
LOC	CATION	SEE FIGURE 1	APPROX. E	LEV.	588	INSPECT	ED BY	RR			
WA	TER OBSE	RVATION	Se	epage	at 10' <u>+</u>	DATE EX	CAVATED	5/2/2018			
DEPTH FT.		DESC	CRIPTION / SO	IL CLA	SSIFICATION		RELATIVE	DENSITY OR			
0	5" Topsoil										
1	Fill- Light Brown Silt, and coarse to fine Sand, trace Gravel with cobbles Medium Stiff										
2	6-inch diameter clay pipe at 2' (From previous residence)										
3 4	Light Brown clayey Silt, and coarse to fine Sand, little coarse to fine Medi Gravel with cobbles										
5 6 7 8	Brown clayey Silt, and coarse to fine Sand, little coarse to fine Medium Stiff Gravel with cobbles										
9 9 10 11	- Same Mottled Silt Medium Stif										
12 13	End										
14											
100 m											
--------------	----------	-----------------	------------------	---------	------------------------	--------------	----------	------------			
PRO.	JECT NO.	9999	PROJECT	Prop	. Logistics Center	TEST PIT	NO.	TP-51			
LOC	ATION S	SEE FIGURE 1	APPROX. E	LEV.	635.0±	INSPECT	ED BY	JQ			
WAT		VATION	Seepage at 7.	5±'		DATE EX	CAVATED	3/19/2018			
DEPTH FT.		DESC	CRIPTION / SOI	L CLA	SSIFICATION		RELATIVE	DENSITY OR			
0 <u> </u>	9" Top	soil									
1_	Light B	Brown/Yellow	coarse to fine	Sand	, and Silt, trace Gra	ivel	Medi	um Dense			
2	(USCS	6: SM)									
_	Light B	irown Silt, sor	ne coarse to fir	ne San	d, travel Gravel with	occassional	Medi	um Stiff			
3	cobble	5					1				
4	(USCS	3: CL)									
	Light B	rown mottled	d Silt, some co	arse to	o fine Sand, little co	arse to fine	Medi	um Stiff			
5	Gravel	with occass	ional cobbles								
	(USCS	6: CL)									
6											
7											
8											
9_											
	T+ D'										
	i est Pi	t Completed	at 10± Feet								
12											
13											
14											
NOTE:						SESI CONS	ULTING E	NGINEERS			

1								1
PRO	JECT NO.	9999	PROJECT	Prop	. Logistics Center	TEST PIT	NO.	TP-52
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	634±'	INSPECT	ED BY	JQ
WAT	ER OBSE	RVATION	Seepage at 4±	:', Hea	vy seepage at 4.5±'	DATE EX	CAVATED	3/19/2018
DEPTH FT.		DES	CRIPTION / SO	IL CLA	SSIFICATION		RELATIVE	E DENSITY OR BISTENCY
0	4" T	opsoil						
1 1 2	Ligh cobl (US	t Brown Slit, so bles CS: CL)	ome coarse to fi	ne Sar	nd, travel Gravel with	occassional	Medi	um Stiff
3								
4	Ligh	t Brown mottle	ed Silt, some co sional cobbles	oarse t	o fine Sand, little coa	arse to fine	Medi	um Stiff
	(US	CS: CL)						
5								
6_								
7								
8_								
9								
 10	Test	Pit Completed	at 9.5± Feet					
12								
-								
14								
NOTE:					S	ESI CONS	ULTING E	NGINEERS

PRO.	JECT NO. 9999 PROJECT Prop. Logistics Cente	r TEST PIT	NO.	TP-53
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 632±'	INSPECT	ED BY	JQ
WAT	ER OBSERVATION Heavy seepage at 5.5±'	DATE EX	CAVATED	3/19/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR
0	6" Topsoil			
1	Light Brown/Yellow coarse to fine Sand, some Slit, trace Gra	avel (USCS: SM)	Mediu	Im Dense
_	Light Brown Silt, some coarse to fine Sand, trave Gravel w	vith occassional	Med	ium Stiff
2	cobbles			
	(USCS: CL)			
°— —	Light Brown mottled Silt, some coarse to fine Sand little	coorse to fine	Modi	
4	Gravel with occassional cobbles		Madi	un sun
_	(USCS: CL)			
5				
_				
6				
′ —				
8				
_				
9				
10	Test Pit Completed at 9.3± Feet			
11				
_				
12				
13				
14				
IOTE:		SESI CONS	ULTING E	NGINEERS

PRO	JECT NO. 9999 PROJECT Prop. Logistics Center 1	FST PIT	NO	TP-54
100		Nedecti		10
		NSFEGI	EUBI	10
WAT	ER OBSERVATION Seepage at 4±' Heavy seepage at 5±'	DATE EXO	CAVATED	3/19/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR
0 <u> </u>	7" Topsoil			
1	Light Brown Silt, some coarse to fine Sand, trace Gravel with occ	assional	Medi	um Stiff
2				
3	Light Brown mottled Silt, some coarse to fine Sand, little coarse	e to fine	Medi	ium Stiff
-	Gravel with occassional cobbles			
4	(USCS: CL)			
5_				
6_				4.0
_				to
7				
_				
8				
-				
9				
			5	Stiff
10				
11_	lest Pit Completed at 9.9±'			
12				
_				
13				
_				
14				
NOTE:	SES	CONS	JLTING E	NGINEERS

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PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center		NO.	TP-55
LOC	ATION	SEE FIGURE 1	APPROX. E	ELEV.	686±'		ED BY	JQ
WAT	WATER OBSERVATION NE DATE EXC					CAVATED	3/19/2018	
DEPTH FT.		DES	CRIPTION / SO		SSIFICATION		RELATIVE	E DENSITY OR BISTENCY
0 <u> </u>	8" T	opsoil						
1 2	Ligh (US	t Brown/Yellow CS: SM)	/ coarse to fine	e Sand,	and Silt, trace G	ravel	Medi	um Dense
 3	Ligh (USC	t Brown Silt, so CS: CL)	ome coarse to	fine Sa	and, trace Gravel		Medi	um Stiff
4 4 5	Light cobb (USC	t Brown Silt, so bles CS: CL)	me coarse to fi	ne San	d, trace Gravel wit	h occassional	Med	ium Stiff
	Light Grav (USC	t Brown mottle vel with occass CS: CL) Pit Completed	d Silt, some co ional cobbles at 10.3±'	parse to	o fine Sand, little o	coarse to fine	Med	ium Stiff
NOTE:						SESI CONS	ULTING E	NGINEERS

PRO	JECT NO.	9999	PROJECT	Prop	. Logistics Center	TEST PIT	'NO.	TP-56
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	688±'	INSPECT	ED BY	JQ
WAT	ER OBSEI	RVATION	Seepage at 10)±'		DATE EX	CAVATED	3/19/2018
DEPTH FT.		DES	CRIPTION / SO		SSIFICATION		RELATIVE	DENSITY OR
0	4" To	opsoll						
1 2 3	Light occa (USC	t Brown/Gray (Issional cobble CS: CL)	Silt, some coar es	se to f	ine Sand, trace Gr	avel with	Medi	um Stiff
4								
	Light Grav (USC	Brown mottle el with occass CS: CL)	d Silt, some co sional cobbles at 10.3±'	parse t	o fine Sand, little c	oarse to fine	Medi	um Stiff
IOTE:						SESI CONS	ULTING E	NGINEERS

8				
PRO	JECT NO. 9999 PROJECT Prop. Logistics Center	TEST PIT	NO.	TP-57
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 672+'	INSPECT	ED BY	JQ
WAT	ER OBSERVATION 7' 0" seepage	DATE EX	CAVATED	3/28/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR
0	4" Topsoil			
1	Light Brown/Yellow coarse to fine Sand and Silt, trace Gravel		Medi	um Dense
2 <u></u> 3	Light Brown Silt, some coarse to fine sand, little coarse to fine Gravel with occassional cobbles)	Mediu	um Stiff
4 5 5 6 7 6 7 7 8 8 9 9 10 10 11	Light Brown mottled Silt, some coarse to fine Sand, little coars Gravel with occassional cobbles	se to fine	Mediu	um Stiff
12	TEST PIT COMPLETED AT 11' 3"			
13 <u> </u>				
OTE:	SE	SI CONSI	JLTING E	NGINEERS

PROJECT NO. 999 PROJECT Prop. Logistics Center TEST PIT NO. TP-101 LOCATION SEE FIGURE 1 APPROX. ELEV. 662* INSPECTED BY RR WATER OBSERVATION 4'0' seepage DATE EXCAVATED 5/1/2018 DEFTM DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OF CONSISTENCY CONSISTENCY 0- 5" Topsoil					
LOCATION SEE FIGURE 1 APPROX. ELEV. 662* INSPECTED BY RR WATER OBSERVATION 4'0" seepage DATE EXCAVATED 5/1/2018 DEFTH DESCRIPTION / SOLI CLASSIFICATION RELATIVE DENSITY OF CONSISTENCY 0 5" Topsoil CONSISTENCY 1 Light brown Silt, and coarse to fine Sand, trace Gravel, with occassional cobbles Medium Stiff 2 Gravel, with cobbles and boulders Medium Stiff fo 4 Gravel, with cobbles and boulders fo fo 7 6 50 fo 8 FEST PIT COMPLETED AT 10.0 FEET Stiff fo 11 TEST PIT COMPLETED AT 10.0 FEET FEST PIT COMPLETED AT 10.0 FEET fo	PRO.	ECT NO. 9999 PROJECT Prop. Logistics Center	TEST PIT	NO.	TP-101
WATER OBSERVATION 4'0' seepage DATE EXCAVATED 5/1/2018 DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OF CONSISTENCY RELATIVE DENSITY OF CONSISTENCY 0- 5'' Topsoil	LOC	ATION SEE FIGURE 1 APPROX. ELEV. 652+'	INSPECT	ED BY	RR
DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OF CONSISTENCY 0 5" Topsoil	WAT	ER OBSERVATION 4' 0" seepage	DATE EX	CAVATED	5/1/2018
0 5" Topsoil 1 Light brown Silt, and coarse to fine Sand, trace Gravel, with occassional cobbles Medium Stiff 2 3 Brown Clayey Silt, and coarse to fine Sand, little coarse to fine Medium Stiff	DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	E DENSITY OR BISTENCY
1 Light brown Silt, and coarse to fine Sand, trace Gravel, with occassional cobbles Medium Stiff 2 - - 3 Brown Clayey Silt, and coarse to fine Sand, little coarse to fine Gravel, with oobbles and boulders Medium Stiff 4 - - 5 - - 6 - to 7 - - 8 - - 9 - Stiff 10 - - 11 - - 12 - - 13 - -	0	5" Topsoil			
3 Brown Clayey Slit, and coarse to fine Sand, little coarse to fine Medium Stiff 4 Gravel, with cobbles and boulders to 5 to to 6 to Stiff 9 Stiff Stiff 10 TEST PIT COMPLETED AT 10.0 FEET Ito 11 12 Ito Ito	1 1 2	Light brown Silt, and coarse to fine Sand, trace Gravel, with occassional cobbles	1	Medi	um Stiff
4	3 <u> </u>	Brown Clayey Slit, and coarse to fine Sand, little coarse to f	ine	Med	ium Stiff
5	4				
6 to 7 - 8 - 9 Stiff 10 - 11 TEST PIT COMPLETED AT 10.0 FEET 11 - 12 - 13 - 14 -	5				
7	6				to
	7_				
3 - 9 Stiff 10 - 10 TEST PIT COMPLETED AT 10.0 FEET 11 - 12 - 13 - 14 -	_				
9	_				
10	9 <u> </u>			S	Stiff
11 IEST PIT COMPLETED AT 10.0 FEET 11 12 12 13 14 14	10				
	11	TEST PIT COMPLETED AT 10.0 FEET			
	 13				
	_				
	14 <u> </u>				

PROJECT NO. 9999 PROJECT Prop. Logistics Center TEST PIT NO. TP-102 LOCATION SEE FIGURE 1 APPROX. ELEV. 671 ±' INSPECTED BY RR WATER OBSERVATION NE DATE EXCAVATED 5/1/2018 DEPTH DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OR CONSISTENCY 0 4" Topsoil					
LOCATION SEE FIGURE 1 APPROX_ELEV. 671±' INSPECTED BY RR WATER OBSERVATION NE DATE EXCAVATED 5/1/2018 DeFTH DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OR CONSISTENCY 0	PRO.	JECT NO. 9999 PROJECT Prop. Logistics Center	TEST PIT	NO.	TP-102
WATER OBSERVATION NE DATE EXCAVATED 5/1/2018 DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OR CONSISTENCY 0 4" Topsoll	LOC	ATION SEE FIGURE 1 APPROX. ELEV. 671 <u>+'</u>	INSPECT	ED BY	RR
DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OR CONSISTENCY 0	WAT	ER OBSERVATION NE	DATE EX	CAVATED	5/1/2018
0 4" Topsoll 1 Light brown Silt, and coarse to fine Sand, trace Gravel, with occassional cobbles Medium Stiff 2 Brown Clayey Silt, and coarse to fine Sand, little coarse to fine Gravel, with cobbles and occassional boulders Medium Stiff 4 - - Medium Stiff 5 - - Medium Stiff 6 - - - 7 - - - 8 - - - 9 - - - 10 - - - 11 - - - 12 - - - 13 - - - 0TE: SESI CONSULTING ENGINEERS -	DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR
1 Light brown Silt, and coarse to fine Sand, trace Gravel, with occassional cobbles Medlum Stiff 2 Brown Clayey Silt, and coarse to fine Sand, little coarse to fine Gravel, with cobbles and occassional boulders Medlum Stiff 3 Gravel, with cobbles and occassional boulders Medlum Stiff 4 - - Medlum Stiff 5 - - - 6 - - - 7 - - - 8 - - - 10 - - - 11 TEST PIT COMPLETED AT 10.0 FEET - - 11 - - - 12 - - - 13 - - - 14 - - -	0	4" Topsoil			
2 Brown Clayey Silt, and coarse to fine Sand, little coarse to fine 3 Gravel, with cobbles and occasional boulders 4 5 6 7 8 9 10 TEST PIT COMPLETED AT 10.0 FEET 11	1 <u> </u>	Light brown Silt, and coarse to fine Sand, trace Gravel, with	ו	Medi	um Stiff
- Brown Clayey Silt, and coarse to fine Sand, little coarse to fine 3 Gravel, with cobbles and occasional boulders 4 - 5 - 6 - 7 - 8 - 9 - 10 TEST PIT COMPLETED AT 10.0 FEET 11 - 12 - 13 - 14 -	2				
3 Gravel, with cobbles and occassional boulders Medium Stiff 4 - - 5 - - 6 - - 7 - - 8 - - 9 - - 10 TEST PIT COMPLETED AT 10.0 FEET - 11 - - 12 - - 13 - - 14 - - OTE: SESI CONSULTING ENGINEERS		Brown Clayey Silt, and coarse to fine Sand, little coarse to	fine		
4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - OTE: SESI CONSULTING ENGINEERS	3	Gravel, with cobbles and occassional boulders		Med	lum Stiff
	4_				
56 67 78 99 10 10 10 10 11 12 13 13 14 OTE: SESI CONSULTING ENGINEERS	_				
	5				
0					
7					
8	7				
8	_				
9	8				
10	9				
10					
— TEST PIT COMPLETED AT 10.0 FEET 11	10				
	11	TEST PIT COMPLETED AT 10.0 FEET			
12 13 14 OTE: SESI CONSULTING ENGINEERS	_				
	12				
IS 14 'OTE: SESI CONSULTING ENGINEERS					
14 OTE: SESI CONSULTING ENGINEERS					
OTE: SESI CONSULTING ENGINEERS	14				
	NOTE:		SESI CONS	ULTING E	NGINEERS

PROJECT NO. 9999 PROJECT Prop. Logistics Center TEST PIT NO. TP-10. LOCATION SEE FIGURE 1 APPROX. ELEV. 667.5±' INSPECTED BY RR WATER OBSERVATION Seepage at 8'0" DATE EXCAVATED 5/2/201 DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY CONSISTENCY 0 6-7" Topsoil
LOCATION SEE FIGURE 1 APPROX. ELEV. 667.5±' INSPECTED BY RR WATER OBSERVATION Seepage at 8'0" DATE EXCAVATED 5/2/201 DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY (CONSISTENCY) 0 6-7" Topsoil
WATER OBSERVATION Seepage at 8'0" DATE EXCAVATED 5/2/201 DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY (CONSISTENCY) 0 6-7" Topsoil - 1 Light brown Silt, and coarse to fine Sand, trace Gravel, with cobbles Medium Stiff 2 - - - 3 - Brown Clayey Silt, and coarse to fine Sand, little coarse to fine Medium Stiff 4 Gravel, with cobbles and occassional boulders Medium Stiff
DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY (CONSISTENCY CONSISTENCY 0 6-7" Topsoil
0 6-7" Topsoil 1 Light brown Silt, and coarse to fine Sand, trace Gravel, with - cobbles 2 - 3 - - Brown Clayey Silt, and coarse to fine Sand, little coarse to fine 4 Gravel, with cobbles and occassional boulders
1 Light brown Silt, and coarse to fine Sand, trace Gravel, with Medium Stiff - cobbles - 2 - - 3 - Brown Clayey Silt, and coarse to fine Sand, little coarse to fine Medium Stiff 4 Gravel, with cobbles and occassional boulders Medium Stiff
2 3 3 Brown Clayey Silt, and coarse to fine Sand, little coarse to fine Medium Stiff 4 Gravel, with cobbles and occassional boulders Medium Stiff
3 Brown Clayey Silt, and coarse to fine Sand, little coarse to fine Medium Stiff 4 Gravel, with cobbles and occassional boulders Medium Stiff
5
6
Same as above, mottled Silt Medium Stiff 7
8
9.
TEST PIT COMPLETED AT 10.0 FEET
12
13
14
IOTE: SESI CONSULTING ENGINEER

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PRO	JECT NO. 9999 PROJECT Prop. Logistics Center	TEST PIT	NO.	TP-104
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 660+	INSPECTE	ED BY	RR
WAT	ER OBSERVATION Seepage at 9'0"	DATE EXC	AVATED	5/2/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR
0	5" Topsoil			
1 1 2	Light brown Silt, and coarse to fine Sand, trace Gravel, with cobbles		Medi	um Stiff
_				
	Brown Clayey Silt, and coarse to fine Sand, little coarse to fi	ine	Medi	um Stiff
4 5	Gravel, with cobbles and boulders			
6_				
8 <u> </u>	Same as above, mottled Silt		Mediu	um Stiff
9				
10_	TEST PIT COMPLETED AT 9.5 FEET			
_				
13				
14				
NOTE:	S	ESI CONSL	JLTING E	NGINEERS

0				
PRO,	ECT NO. 9999 PROJECT Prop. Logistics Center	TEST PIT	NO.	TP-105
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 679 <u>+'</u>	INSPECTE	ED BY	RR
WAT	ER OBSERVATION Seepage at 8.75'	DATE EXC	AVATED	5/2/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR
0	5" Topsoil			
1 2	Light brown Silt, and coarse to fine Sand, trace Gravel, with cobbles		Medi	um Stiff
	Brown Clayey Silt, and coarse to fine Sand, little coarse to fi Gravel, with cobbles and boulders	ine	Medi	um Stiff
5 6	Same as above, mottled Silt		Mediu	um Stiff
8 9				
 10	TEST PIT COMPLETED AT 9.0 FEET			
11 <u> </u>				
12 <u> </u>				
13 <u> </u>				
	e	ESI COMEN		NCINEEDO
- 1 L.	3			INGINEEKS

PRO	JECT NO. 9999 PROJECT Prop. Logistics Center	TEST PIT NO.	TP-106				
LOC	LOCATION SEE FIGURE 1 APPROX. ELEV. 671± INSPECT		RR				
WAT	WATER OBSERVATION NE DATE EXC		5/2/2018				
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIV	E DENSITY OR SISTENCY				
0	5" Topsoil						
1 <u></u>	Light brown Silt, and coarse to fine Sand, trace Gravel, with cobbles	Med	Medium Stiff				
2							
3	Brown Clayey Silt, and coarse to fine Sand, little coarse to fine	Med	ium Stiff				
	Gravel, with cooples and boulders						
4							
_							
5							
_							
° <u> </u>							
7_							
_							
8							
9	Same as above, mottled Silt	Medi	um Stiff				
	TEST PIT COMPLETED AT 9.0 FEET						
10							
11							
12							
13							
—							
14							
IOTE: SESI CONSULTING ENGINEERS							

PROJECT NO. 9999 PROJECT Prop. Logistics Center TEST PIT NO. T LOCATION SEE FIGURE 1 APPROX. ELEV. 682+' INSPECTED BY RR WATER OBSERVATION Seepage at 9.0' DATE EXCAVATED 5/2 DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITIAN 0 5" Topsoll
LOCATION SEE FIGURE 1 APPROX. ELEV. 682+' INSPECTED BY RR WATER OBSERVATION Seepage at 9.0' DATE EXCAVATED 5/2 DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSISTENCY CONSISTENCY 0
WATER OBSERVATION Seepage at 9.0' DATE EXCAVATED 5/2 DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSISTENCE CONSISTENCE 0 5" Topsoil 1 Light brown Silt, and coarse to fine Sand, trace Gravel, with Medium St
DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSISTEM 0
0 5" Topsoll 1 Light brown Silt, and coarse to fine Sand, trace Gravel, with
1 Light brown Silt, and coarse to fine Sand, trace Gravel, with Medium St
cobbles 2
3 Brown Clayey Silt, and coarse to fine Sand, little coarse to fine Medium Silt
8 Same as above, mottled Silt Medium Stri
9
IOTE: SESI CONSULTING ENGIN

PRO	JECT NO. 9999 PROJECT Southeast, NY TE	ST PIT NO.	RWTP-1					
LOC	LOCATION SEE FIGURE 1 APPROX. ELEV. 651.0'± INSPECT		JQ					
WAT	ER OBSERVATION Not Encountered DA		4/17/2018					
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIV	E DENSITY OR SISTENCY					
0	6" Topsoil							
1 1 2	Yellow-brown/light-brown SILT, and coarse to fine Sand, trace Gravel (USCS : CL)	Мес	lium Stiff					
3	 Light-brown SILT, and coarse to fine Sand, little coarse to fine Gravel, with occasional Cobbles (USCS : CL) 							
4 <u></u>	Light-brown mottled SILT, and coarse to fine Sand. little coarse to							
5 6 7 8 9	fine Gravel, with occasional Cobbles (USCS : CL)							
9 10 10 11 11 12 13 13 14 14 14	End of Test Pit at 9 ± Feet							
OTE: Reta	ining Wall B1-3	S	FSI					



			1	RWTP. 2
PRO	PROJECT NO. 99999 PROJECT Southeast, NY TEST PIT			NW 11 - 2
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 655' ±	INSPECTE	DBY	JQ
WAT	ER OBSERVATION Seepage at 8' ±	DATE EXC	AVATED	4/17/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR ISTENCY
0	5" Topsoll			
1	Yellow-brown/light-brown SILT, and coarse to fine Sand, trac Gravel (USCS : CL)	28		
2 3	Light-brown SILT, and coarse to fine Sand, little coarse to fin Gravel, with occasional Cobbles (USCS : CL)	6		
—			Medi	um Stiff
4				
5	Light-brown mottled SILT, and coarse to fine Sand, little coar	se to		
	fine Gravel, with occasional Cobbles (USCS : CL)		Mediu	ım Stiff
6_				
_	Boulder frequency increased with depth			
8				
_				
9				
_	End of Test Pit at 9 ± Feet			
10				
—				
11				
12				
·				
13				
_				
14				
NOTE: Reta	ining Wall B1-3		2	FSI
	Figure 105		001	



PRO	JECT NO. 9999 PROJECT Southeast, NY TEST P	IT NO.	RWTP- 3
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 644'+ INSPEC	TED BY	JQ
WAT	ER OBSERVATION Not Encountered DATE E	XCAVATED	4/17/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE	DENSITY OR
0	3" Topsoli		
- 1	Yellow-brown/light-brown SILT, and coarse to fine Sand, trace	Medi	um Stiff
1	Gravel (USCS : CL)		
2	Light-brown SILT, and coarse to fine Sand, little coarse to fine	Med	ium Stiff
-	Gravel, with occasional Cobbles (USCS : CL)		
3			
-			
4			
-	Light-brown mottled SILT, and coarse to fine Sand, little coarse to	Medi	um Stiff
5	fine Gravel with occasional Cobbles (USCS : CL)		
6			
(—	Boulder frequency increased with depth		
°—			
9			
		1	
10			
_			
11			
12			
_			
13			
_			
14			
NOTE: Reta	ining Wall B1-4	S	FSI



PRO	JECT NO. 9999 PROJECT Southeast, NY	TEST PIT NO.	RWTP-4		
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 622'+	INSPECTED BY	RR		
WAT	ER OBSERVATION Seepage at 2' ±	DATE EXCAVAT	ED 5/2/2018		
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELA	TIVE DENSITY OR		
0	4" Topsoil				
	Light Brown SILT, and coarse to fine Sand, trace Gravel wit	h Cobbles			
1	(USCS : CL)		Medium Stiff		
2					
	Brown Clayey SILT, and coarse to fine Sand, little coarse to	fine Gravel	Medium Stiff		
3	with Cobbles and Boulders (USCS : CL)				
-		1			
4					
-					
5					
6_					
7_	Boulders increased frequency with depth		Stiff		
			to		
°			Hard		
9					
_	End of Test Pit at 9 ± Feet				
10					
_					
11					
12					
_					
13					
_					
14					
IOTE: Retaining Wall B12-1 Figure 107 SESS					



PRO	JECT NO. 9999 PROJECT Southeast, NY	rest pit	NO.	RWTP- 5	
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 631'+	NSPECTI	ED BY	RR	
WAT	ER OBSERVATION Seepage at 9' ±	CAVATED	5/2/2018		
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE DENSITY O CONSISTENCY		
0	3-4" Topsoll				
	Light Brown SILT, and coarse to fine Sand, trace Gravel with C	obbies	Medi	um Stiff	
1	(USCS : CL)				
2					
3	Brown Clayey SILT, and coarse to fine Sand, little coarse to fine	e Gravel			
	with Cobbles and Boulders (USCS : CL)				
4—					
			Mediu	um Stiff	
6					
7_					
8	Same (Mottled Silt)		Mediu	m Stiff	
_			MOGIC		
9					
_					
10					
1 1	End of Test Pit at 10 ± Feet				
11					
12					
_					
13					
14				,	
IOTE: Retaining Wall B12-1 Figure 108					



PRO	JECT NO. 9999 PROJECT Southeast, NY TEST	PIT NO.	RWTP-6	
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 640'+ INSP	ECTED BY	RR	
WAT	WATER OBSERVATION Not Encountered DATE EX		5/2/2018	
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE	E DENSITY OR BISTENCY	
0	4" Topsoil			
- 1	Light Brown SILT, and coarse to fine Sand, trace Gravel with Cobbl	es		
1	(USCS : CL)			
-		Med	ium Stiff	
2				
3				
-	Brown Clayey SILT, and coarse to fine Sand, little coarse to fine Gra	avel		
4	with Cobbles and Boulders (USCS : CL)			
-				
5		Medi	um Stiff	
6				
			to	
7—				
°—			Stiff	
9-1				
10	End of Test Pit at 9 ± Feet			
12				
13				
_				
14				
NOTE: Reta	ining Wall B12-1	6	Eel	
Figure 109				



PRO	JECT NO. 9999 PROJECT Southeast, NY	TEST PIT	NO.	RWTP- 7		
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 642'+	INSPECTI	ED BY	RR		
WAT	ER OBSERVATION Seepage at 9' ±	DATE EX	CAVATED	5/2/2018		
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR		
0	5" Topsoil					
-	Light Brown SILT, and coarse to fine Sand, trace Gravel wit	h Cobbles	Medi	um Stiff		
1	(USCS : CL)					
<u> </u>						
2						
3						
_	Brown Clayey SILT, and coarse to fine Sand, little medium t	o fine				
4	Gravel with Cobbles and Boulders (USCS : CL)					
_						
5			Mediu	um Stiff		
6						
7						
_	Same (Mottled Silt)		Mediu	ım Stiff		
8						
9						
_						
10						
_						
11						
_	End of Test Pit at 11 ± Feet					
12						
13						
_						
14						
NOTE: Reta	Ining Wall B12-2		0			
Figure 110						



			OTD 4
PRO	JECT NO. 9999 PROJECT Prop. Logistics Center TEST PIT	Г NO .	519-1
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 626.0±' INSPECT	ED BY	JQ
WAT	WATER OBSERVATION Seepage at 2±'; Heavy seepage at 3±' DATE EXC		3/28/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OF	
0	4" Topsoil		
-	Light Brown Silt, some coarse to fine Sand, trace Gravel	Med	ium Stiff
1	(USCS: CL)		
2_	Percolation Rate = 60 min/in @ Elv. 624.1	Medi	um Stiff
	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine		
3 <u> </u>	Gravel with frequent cobbles and occasional Boulder		
4			
5			10
_			
6			
_			
7			
-		:	Stiff
8			
	Test Pit Completed at 8± Feet		
9 <u> </u>			
10			
11			
_			
12			
_			
13			
_			
14			
IOTE:	SESI CONS	ULTING E	NGINEERS

Fig. 111

P-				
PRO	JECT NO. 9999 PROJECT Prop. Logistics Center	TEST PIT	NO.	STP-2
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 628.0±'	INSPECT	ED BY	JQ
WAT	ER OBSERVATION Seepage at 2±'	DATE EX	CAVATED	3/28/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR
0	4" Topsoil		1	
-	Light Brown Silt, some coarse to fine Sand, little coarse to fir	ne Gravel	Med	lum Stiff
1	with occassional cobbles			
	(USCS: CL)			
2				
	Percolation Rate: 120 min/in @ Elv. 626		Med	lum Stiff
3_	Light Brown mottled Silt, some coarse to fine Sand, little coa	rse to fine		
	Gravel with occassional cobbles			
4	(USCS: CL)			
5				
6				
7				
_				
8				
_				
9	Test Pit Completed at 8.5± Feet			
-				
10				
-				
11_				
12				
13				
14				
IOTE:	SI	ESI CONSI	JL TING F	NGINEERS

PRO	JECT NO.	9999	PROJECT	Prop	. Logistics Center	TEST PIT	NO.	STP-3
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	632±'		ED BY	JQ
WAT	WATER OBSERVATION Seepage at 6±' DATE EXC			CAVATED	3/28/2018			
DEPTH FT.		DES	CRIPTION / SO	IL CLA	SSIFICATION		RELATIVE	DENSITY OR
0	6" To	opsoli						
1 2	Light Brown/Yellow coarse to fine Sand, and Silt, trace Gravel (USCS: SM)							ım Dense
_	Perc	olation Rate =	40 min/in @ E	iv. 630)		Med	ium Stiff
3	Light	Brown Silt, so	me coarse to	fine Sa	and, little coarse to	fine Gravel		
4	with o	occassional co	bbles					
	(050						Medi	um Stiff
5	Light	Brown mottles	d Silt, some co	arse to	o fine Sand, little o	parse to fine		
-	Grave	el with occassi	ional cobbles a	and bo	ulders			
6	(USC	CS: CL)						
'								
8								
9								
10	Test l	Pit Completed	at 9.5± Feet					
_								
11								
_								
12								
13								
14								

1									
PROJECT NO. 9999 PROJECT Prop. Logistics Center TEST					PIT NO. STI				
LOC	LOCATION SEE FIGURE 1 APPROX. ELEV. 631.0±' INSPECT					ED BY	JQ		
WAT	WATER OBSERVATION Seepage at 6'10"± DATE EXC						CAVATED	3/28/2018	
DEPTH FT.	TH DESCRIPTION / SOIL CLASSIFICATION							E DENSITY OR DISTENCY	
0	6" To	opsoil							
1 <u> </u>	Light	t Brown/Yellow	coarse to fine	Sand,	and Silt, trace Gra	avel	Mediu	ım Dense	
2_	Reve		00 la /la -O -	1 000					
	Light	Brown Silt. so	ome coarse to	fine Sa	nd. little coarse to	fine Gravel	Medi	um Stiff	
3	with	occassional co	obbles						
	(USC	CS: CL)							
4									
_	Light	Brown mottle	d Silt, some co	arse to	o fine Sand, little c	parse to fine	Medim Stiff		
5	Grav	el with occass	ional cobbles						
_	(USC	S: CL)							
6									
							to		
7									
8									
9							5	Stiff	
-	Test	Pit Completed	at 9.1± Feet						
10									
-									
11									
_									
12									
_									
13									
_									
14									
NOTE:	OTE: SESI CONSULTING ENGINEERS								

PRO	JECT NO. 9999 PROJECT Southeast, NY	TEST PIT	NO.	STP- 5
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 618'+	ED BY	JQ	
WAT	ER OBSERVATION Seepage at 3'4"±	DATE EX	CAVATED	3/22/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR
0	3" Topsoli			
-				
1	Light-brown SILT, some coarse to fine Sand, trace Gravel, wi	ith		
-	occassional cobbles (USCS : SC/CL)		Med	ium Stlff
2_				
	Percolation Rate = 40 min/in @ Elv. 616		Med	ium Stiff
3	Light-brown mottled SILT, some coarse to fine Sand, trace G	ravel,		
	with occassional cobbles			
4	(USCS : SC/CL)			
5—				
6				
'				
10	End of Test Dit at 0.5+ Eest			
_				
11				
_				
12		1		
13				
_				
14				
NOTE:			C	FQI



-							
PRO.	JECT NO.	9999	PROJECT	Southeast, NY	TEST PIT	NO.	STP- 6
LOC	LOCATION SEE FIGURE 1 APPROX. ELEV. 613'- INSPECTE					ED BY	JQ
WAT	ER OBSE	CAVATED	3/22/2018				
DEPTH FT.		RELATIVE	DENSITY OR				
0 <u> </u>	8" T	opsoil					
1 <u> </u>	Ligh	t-brown SILT,	and coarse to fin	e Sand, trace Gravel		Med	ium Stiff
2	Perc	colation Rate =	15 min/in @ Elv	[,] 610.9			
3_							
4_	Ligh	t-brown mottle	d SILT, some co	arse to fine Sand, trace	e Gravel,	Medi	um Stiff
-	with	occassional co	obbles				
5	(US	CS : SC/CL)					
6							
_							
7							
_							
8							
9							
10_							
11							
		I	End of lest Pit a	t 10.5± Feet			
12							
13							
14							
OTE:						C	FSI



Fig. 116

R				
PRO.	JECT NO. 9999 PROJECT Prop. Logistics Center	TEST PIT	NO.	STP-7
LOC	LOCATION SEE FIGURE 1 APPROX. ELEV. 616.0±' INSPECTE		ED BY	JQ
WAT	ER OBSERVATION Seepage at 6.5±'	DATE EX(CAVATED	3/28/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR
0	6" Topsoil			
1	Light Brown Silt, and coarse to fine Sand, trace Gravel (USCS: CL)		Medi	um Stiff
2 3	Percolation Rate = 40 min/in @ Elv. 614.0			
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to with occassional cobbles	fine Gravel	Medi	um Stiff
5 <u> </u>	(USCS: CL)			
6 <u> </u>				to
7 <u> </u>				
8			ę	Stiff
9	Test Plt Completed at 8.5± Feet			
10 <u> </u>				
12				
 13				
NOTE:	S	ESI CONSU	JLTING E	NGINEERS



1				
PRO.	JECT NO. 9999 PROJECT Prop. Logistics Center	TEST PIT	NO.	STP-8
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 619.0±'	ED BY	JQ	
WAT	ER OBSERVATION Seepage at 6±'	CAVATED	3/28/2018	
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR
0	3" Topsoil			
1	Light Brown/Yellow medium to fine Sand, and Silt, trace Grave (USCS: SM)	el	Medi	um Dense
_	Light Brown Silt, some coarse to fine Sand, little coarse to fine	Gravel	Med	lum Stiff
2_	with occassional cobbies			
	(USCS: CL)			
3	Percolation Rate = 120 min/in @ Elv. 617.0			
4	Light Brown mottled Silt, some coarse to fine Sand, little coars	e to fine	Medi	um Stiff
	Gravel with occassional cobbles			
5	(USCS: CL)			
_				
°—				
8				
9				
_	Test Pit Completed at 9± Feet			
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13				
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NOTE:	SES	SI CONSI	ULTING E	NGINEERS

PROJECT NO. 9999 PROJECT Prop. Logistics Center TEST PIT NO. LOCATION SEE FIGURE 1 APPROX. ELEV. 644.0± INSPECTED BY J WATER OBSERVATION Seepage at 4±' DATE EXCAVATED DEPTH DESCRIPTION / SOIL CLASSIFICATION RELATIVE E O RELATIVE E	STP-9 JQ 3/28/2018 DENSITY OR ISTENCY
LOCATION SEE FIGURE 1 APPROX. ELEV. 644.0± INSPECTED BY WATER OBSERVATION Seepage at 4±' DATE EXCAVATED DEPTH DESCRIPTION / SOIL CLASSIFICATION RELATIVE D 0 CONSIST	JQ 3/28/2018 DENSITY OR ISTENCY
WATER OBSERVATION Seepage at 4±' DATE EXCAVATED DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE IS CONSIST	3/28/2018 DENSITY OR ISTENCY
DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE CONSIST	DENSITY OR ISTENCY
	um Céléé
0 6" Topsoil	
1 — Light Brown Silt, some coarse to fine Sand, trace Gravel Mediur (USCS: CL) Percelation Bate = 40 min/in @ Elv. 642.0	un Sun
3 Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel Medium	ım Stiff
14 NOTE: SESI CONSULTING EN	NGINEERS

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PRO	JECT NO. 9999 PROJECT Southeast, NY TEST PI	T NO.	STP- 10	
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 645'+ INSPEC	FED BY	JQ	
WAT	ER OBSERVATION Light seepage at 4'9"±; Heavy at 5'2"± DATE EX	CAVATED	3/22/2018	
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE	DENSITY OR	
0 <u> </u>	8" Topsoll			
1 <u> </u>	Light-brown SILT, and coarse to fine Sand, trace Gravel (USCS : SC/CL)	Med	lum Stiff	
2	Percolation Rate = 20 min/in @ Elv. 643.0			
3				
4	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel,	Med	Medium Stiff	
5_	with occassional cobbles			
_				
6			to	
7_				
8			SHIFF	
_			Suit	
9				
10	End of Test Pit at 9.0± Feet			
11				
12				
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NOTE:		<u> </u>	FOI	



PRO	JECT NO.	9999	PROJECT	Southeast,	NY	TEST PIT	NO.	STP- 11
LOC	LOCATION SEE FIGURE 1 APPROX. ELEV. 645'+ INSPECT			े ED BY	JQ			
WAT	WATER OBSERVATION Seepage at 7'6"± DATE EX						CAVATED	3/22/2018
DEPTH FT.			RELATIVE	DENSITY OR				
0	10" -	Горзоі						
1_				-				
_	USC	I-Drown SIL1, a	and coarse to fin	e Sand, trace	Gravel		Med	ium Stiff
2	Perc	olation Rate =	15 min/in @ Elv	. 643.0				
<u> </u>	Light	t-brown mottle	d SILT some co	arse to fine Sa	und trace	Gravel	Medi	um Stiff
4	with	occassional co	obbles		ina, travo	Gravel,	INGO	
-	(USC	CS : SC/CL)						
5								
6_								
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7								
°_								
9								
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10			End of Test Pit a	at 9.0± Feet				
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12								
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13 <u> </u>								
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NOTE:							S	FSI



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PRO.	JECT NO. 9999 PROJECT Prop. Logistics Ce	nter TEST PIT	NO.	STP-12
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 645.0±	ED BY	JQ	
WAT	ER OBSERVATION Seepage at 4±'	CAVATED	3/28/2018	
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE	DENSITY OR	
0	6" Topsoil			
1	Light Brown Silt, and coarse to fine Sand, trace Grav	el	Medi	um Stiff
2_	(USCS: CL)			
	Percolation Rate = 60 min/in @ Elv. 643.0		Medi	um Stiff
3	Light Brown mottled Silt, some coarse to fine Sand, li	ttle coarse to		
	fine Gravel, with occassional cobbles			
4	(USCS: CL)			
5-				
6				
'				
8				
9	Test Pit Completed at 8.5± Feet			
10				
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11				
12				
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13				
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NOTE:		SESI CONS	ULTING E	NGINEERS



PRO	JECT NO. 9999 PROJECT Prop. Logistics Center	TEST PIT	NO.	STP-13
LOC	LOCATION SEE FIGURE 1 APPROX. ELEV. 639.0± INSPECTE		ED BY	JQ
WAT	ER OBSERVATION Seepage at 4±'	DATE EX	CAVATED	3/28/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	E DENSITY OR DISTENCY
0	6" Topsoil			
1 <u> </u>	Light Brown Silt, some coarse to fine Sand, trace Gravel (USCS: CL)		Medi	um Stiff
2 <u> </u>	Percolation Rate = 30 min/in @ Elv. 637.0			
3 <u> </u>	Light Brown mottled Silt, some coarse to fine Sand, little co	parse to fine	Medi	um Stiff
4	Gravel with occassional cobbles and boulder			
	(USCS: CL)			
5				
6				
7_				
8				
_				
9				
-	Test Pit Completed at 9± Feet			
10				
11-				
12				
13				
_				
14				
NOTE:		SESI CONS	ULTING E	NGINEERS



PROJ	ECT NO.	9999	PROJECT	Prop	. Logistics Cent	er TES	T PIT	NO.	STP-14
LOCA	LOCATION SEE FIGURE 1 APPROX. ELEV. 639.0± INSPECT					ED BY	JQ		
WATE	WATER OBSERVATION Seepage at 6±' DATE EXC						CAVATED	3/28/2018	
DEPTH FT.		DESC	CRIPTION / SO	L CLA	SSIFICATION			RELATIVE	DENSITY OR
0 <u> </u>	8" To	opsoll							
1 2	Light (USC	t Brown Silt, an CS: CL)	nd coarse to fir	ne Sar	nd, trace Gravei			Medi	um Stiff
3_	Perc Light	olation Rate = Brown Silt, so	10 min/in @ E me coarse to	ilv. 63 fine Sa	7.0 and, trace Grave	el (USCS: C	;L)	Mədi	um Stiff
4 4 5	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)						fine	Medium Stiff	
6 <u> </u>									to
8 9								S	Stiff
10 10 11	Test	Pit Completed	at 9.25±'						
12 <u> </u>									
14 OTE:				_		SESI C	ONS	UI TING F	NGINEEDS

PRO	JECT NO. 9999 PROJECT Prop. Logistics Center TEST Pl	T NO.	STP-15			
LOC	LOCATION SEE FIGURE 1 APPROX. ELEV. 639.0±' INSPECT		JQ			
WAT	ER OBSERVATION Light seepage at 4.5±'; Heavy seepage at 7±' DATE E)	(CAVATED	3/28/2018			
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE	E DENSITY OR SISTENCY			
0 <u> </u>	9" Topsoil					
1	Light Brown Silt, and coarse to fine Sand, trace Gravel (USCS: CL)	Med	um Stiff			
2	Percolation Rate = 2.3 min/in @ Elv. 637.0					
3_						
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles	Medi	um Stiff			
5	(USCS: CL)					
6 <u> </u>			to			
7						
8						
9			Stiff			
	Test Pit Completed at 9± Feet					
¹² —						
13						
14						
NOTE:	SESI CONS	ULTING E	NGINEERS			
PRO	ECT NO. 9999 PRO	JECT Prop	. Logistics Center	TEST PIT	NO.	STP-16
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LOC	TION SEE FIGURE 1 APP	ROX. ELEV.	638.0±	INSPECT	ED BY	JQ
WAT	ER OBSERVATION Seepa	ge at 3±'		DATE EX	CAVATED	3/28/2018
DEPTH FT.	DESCRIPTIC	ON / SOIL CLA	SSIFICATION		RELATIVE	E DENSITY OR
0	4" Topsoil					
1	Light Brown Silt, some coa (USCS: CL)	arse to fine Sa	and, trace Gravel		Medi	um Stiff
2	Percolation Rate = 15 min	/in @ Elv. 636	3.0		Medi	um Stiff
-	Light Brown mottled Clays	y Silt, some c	oarse to fine Sand,	little coarse		
3	to fine Gravel with occass	ional cobbles				
	(USCS: CL)					
4						
5-						
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°—						
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8_						
_						
9						
_	Test Pit Completed at 9± F	eet				
10						
11)
-						
12						
13						
14						
)TE:				SESI CONS	ULTING E	NGINEERS

PROJECT NO. 9999 PROJECT Prop. Logistics Center TEST PIT NO. STP-17 LOCATION SEE FIGURE 1 APPROX. ELEV. 638'± INSPECTED BY JQ WATER OBSERVATION Seepage at 7' DATE EXCAVATED 3/19/2016 DEPTY DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OR CONSISTENCY 0- 6" Topsoil	r				
LOCATION SEE FIGURE 1 APPROX. ELEV. 639:2 INSPECTED BY JQ WATER OBSERVATION Seepage at 7' DATE EXCAVATED 3/19/2018 DEPTM FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OR CONSISTENCY 0 6' Topsoll Image: Constitution of the stand, trace Gravel Medium Stiff 1 Light-brown SILT, some medium to fine Sand, trace Gravel Medium Stiff Image: Constitution of fine Sand, trace Gravel Medium Stiff 3 - - - - - - 4 - - - - - - 5 - - - - - - 4 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <td< td=""><td>PRO</td><td>JECT NO. 9999 PROJECT Prop. Logistics Center T</td><td>EST PIT</td><td>NO.</td><td>STP- 17</td></td<>	PRO	JECT NO. 9999 PROJECT Prop. Logistics Center T	EST PIT	NO.	STP- 17
WATER OBSERVATION Seepage at 7 DATE EXCAVATED 3/19/2018 DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OR CONSISTENCY 0 6" Topsoil	LOC	ATION SEE FIGURE 1 APPROX. ELEV. 638'± IN	NSPECTE	ED BY	JQ
DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OR CONSISTENCY 0 6" Topsoll	WAT	ER OBSERVATION Seepage at 7' D	ATE EXC		3/19/2018
0 6" Topsoli 1 Light-brown SiLT, some medium to fine Sand, trace Gravel Medium Stiff 2 - 3 - 4 - 5 - 4 - 5 - 1 Light-brown motiled SiLT, some medium to fine Sand, little coarse to fine Gravel, with occassional cobbles 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 -	DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE CONS	DENSITY OR
1 Light-brown SiLT, some medium to fine Sand, trace Gravel Medium Stiff 2	0	6" Topsoli			
Percolation Rate = 30 min/in @ Elv. 638.0	1	Light-brown SILT, some medium to fine Sand, trace Gravel		Mediu	um Stiff
2	—	Percolation Rate = 30 min/in @ Elv. 636.0			
3	2				
Light-brown mottled SILT, some medium to fine Sand, little coarse to fine Gravel, with occassional cobbles	3				
4					
Light-brown mottled SILT, some medium to fine Sand, little coarse to fine Gravel, with occassional cobbles T	4				
5 Light-brown mottled SILT, some medium to fine Sand, little coarse to fine Gravel, with occassional cobbles Medium Stiff 6 - - - 7 - - - 8 - - - 9 - - - 10 - End of Test Plt at 10.1 Feet - 11 - - - 12 - - - 13 - - - 14 OTE: CCCCL	_				
Light-brown motied SLL1, some medium to the Sand, little coarse to fine Gravel, with occassional cobbles T	5				
Intervention, with consistent costs 7	6	Light-brown mottled SILI, some medium to fine Sand, little coar fine Gravel, with occassional cobbles	rse to	Medi	um Stiff
7	_				
- - 8 - 9 - 10 - 10 - 11 - 12 - 13 - 14 - OTE: -	7				
899 910 10End of Test Pit at 10.1 Feet 11 1212 1314 OTE:					
9 10 10 10 11 12 13 14 OTE:	8				
Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Indext Index Indext Indext	9_				
10 End of Test Plt at 10.1 Feet 11 Indextor Interview 12 Interview 13 Interview 14 Interview OTE: Interview	_				
End of Test Plt at 10.1 Feet	10				
12 12 13 14 OTE:		End of Test Pit at 10.1 Feet			
12 13 14 OTE:					
	12				
13 14 OTE:	_				
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PRO.	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	STP- 18
LOC		SEE FIGURE 1	APPROX. E	LEV.	640' <u>+</u>	INSPECT	ED BY	JQ
WAT	ER OBSER	VATION	Seepage at 7'			DATE EX	CAVATED	3/19/2018
DEPTH FT.		DESC	CRIPTION / SO	IL CLAS	SIFICATION		RELATIVE	DENSITY OR
0	8" Toj	osoli						
1	Light-l	brown/yellow	ravel	Med	Medium Stiff			
2 <u> </u>	Light-I Perco	prown SILT, s lation Rate =	o fine Gravel	Medium Stiff				
4 <u> </u>								
6 6 7 8 9 10	Light-t	prown mottled	I SILT, some i cassional cob	nedium	n to fine Sand, little d boulder	coarse to	Medi	um Stiff
 11 12 13 14		1	End of Test Pi	t at 10.:	2 Feet			
NOTE:			Fig. 128				S	ESI

PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	STP- 19
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	649' <u>+</u>	INSPECT	ED BY	JQ
WAT	ER OBSE	RVATION		8'+		DATE EX	CAVATED	3/19/2018
DEPTH FT.		DESC	CRIPTION / SO	IL CLAS	SIFICATION		RELATIVE	DENSITY OR
0	8" T	opsoil						
1	Light-brown/yellow coarse to fine Sand, some Silt, little coarse to fine Medium Dense Gravel, with occassional cobbles and boulders Medium Dense							
3_	Light	t-brown SILT, s	some coarse t	o fine S	and, little coarse to	o fine Gravel,	Medi	um Stiff
4	Perc	colation Rate =	17.1 min/in @) Elv. 64	17.0			
5 6 7 7 8 9 10 11 11	5 Light-brown coarse to fine Sand, and mottled Silt, little coarse to fine Gravel, with occassional cobbles and boulders 6 7 8 9 10 End of Test Pit at 10.5 Feet						Medi	um Stiff
12 13 14								
NOTE:							S	FSI



PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	STP- 20
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	648' <u>+</u>	INSPECT	ED BY	JQ
WAT	ER OBSER	RVATION	Seepage at 8'	5"		DATE EX	CAVATED	3/19/2018
DEPTH FT.		DESC	CRIPTION / SO	IL CLAS	SSIFICATION		RELATIVE	E DENSITY OF
0	6 [∗] To	opsoil						
1_	Light	-brown/yellow	avel	Med	ium Dense			
2	Perce	plation Rate =	30 min/in @ E	Elv. 646	.0			
_								
3	Liabt		fine Crovel	Mad	um Danas			
4	Ligin	-DIOWIT GILT, 6			and, illie coarse lo		Medi	um Dense
5_								
_	Light-	brown mottled	d Silt, some me	edium t	o fine Sand, little o	coarse to fine	Medi	ium Stiff
6	Grave	el, with occass	ional cobbles					
7_								
°								
9								
10								
		I	End of Test Pi	t at 10.	0 Feet			
12								
13								
14 OTE:							<u> </u>	ECI
			Fig. 130				D ^{°°}	

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PRO.	JECT NO. 9999 PROJECT Prop. Logistics Center TEST I	PIT NO.	STP- 21	
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 638'+ INSPE	CTED BY	JQ	
WAT	ER OBSERVATION Not Encountered DATE	EXCAVATED	3/19/2018	
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE	DENSITY OR	
0	12" Topsoil			
1_				
2_	Light-brown/yellow coarse to fine Sand, and Silt, trace Gravel	Medi	um Dense	
_	Light-brown SILT, and medium to fine Sand, little coarse to fine Grave	el Medi	NO. STP-21 D BY JQ AVATED 3/19/2018 RELATIVE DENSITY OR CONSISTENCY Medium Dense Medium Stiff to Stiff	
3	Percolation Rate = 10 min/in @ Elv. 636.0			
4_				
_	Light-brown mottled Silt, some medium to fine Sand, little coarse to find	ne Medi	um Stiff	
5	Gravel, with occassional cobbles			
6			4.0	
_		8	το	
7				
8			0.00	
			Stiff	
9				
10	End of Tool Bit at 0.5 Foot			
11				
12				
13				
NOTE:		2.	FSI	
	Fig. 131	00		

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PRO	JECT NO. 9999 PROJECT Prop. Logistics Center	TEST PIT	NO.	STP- 22
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 646'+	INSPECTE	D BY	JQ
WAT	ER OBSERVATION Seepage at 9'±	DATE EXC	AVATED	3/19/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR
0	4" Topsoil			
1	Light-brown SILT, some coarse to fine Sand, trace Gravel w occassional cobbles	vith	Medi	ium Stiff
2	Percolation Rate = 30 min/in @ Elv. 644.0			
3				
_				
4				
5_				
	Light-brown mottled Slit, some coarse to fine Sand, little coa	rse to fine	Med	ium Stiff
6	Gravel, with occassional cobbles			
8				
9				
10				
11	End of Test Pit at 10.5 Feet			
12				
_				
13				
14				
NOTE:	Fig. 132		S	ESI
	1 Ig. 10Z		00	NSULTING

E.									
PRO.	JECT NO.	9999	PROJECT	Prop	Logistics Cente	TEST PI	Г NO.	STP- 23	
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	644' <u>+</u>	INSPECT	ED BY	JQ	
WAT	ER OBSE	RVATION	Seepage at 8	±		DATE EX	CAVATED	3/19/2018	
DEPTH FT.		DES	CRIPTION / SO	IL CLA	SSIFICATION		RELATIVE	DENSITY OR	
0	4" T	opsoil							
1 1 2	Ligh Grav	Light-brown/yellow SILT, some coarse to fine Sand, little coarse to fine Medium Stiff Gravel, with occassional cobbles							
3	Ligh with	t-brown SILT, occassional c	some coarse t obbles	o fine \$	Sand, little coarse	to fine Gravel	, Med	ium Stiff	
4		t brown mottle	- 15 min/in @ E	=IV. 642	to fine Cand little	ecomo lo Sno	Med	ium Otiff	
5 6 7	Grav	vel, with occas	sional cobbles	and bo	bulders				
8 9 10									
11 <u> </u>			End of Test P	it at 10	.3 Feet				
12 13									
14									
NOTE:							S	ESI	



85 m							
PRO	JECT NO. 9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	STP- 24
LOC	ATION SEE FIGURE 1	APPROX. E	LEV.	649' <u>+</u>	INSPECT	ED BY	JQ
WAT	ER OBSERVATION	Seepage at 7	4"±		DATE EX	CAVATED	3/19/2018
DEPTH FT.	DESC	RIPTION / SO		SSIFICATION		RELATIVE	DENSITY OR
0	8" Topsoil						
1 <u> </u>	Light-brown/yellow	SILT, some m	ıədium	to fine Sand, trace	Gravel	Med	ium Stiff
2 3	Light-brown SILT, se Percolation Rate =	ome medium 1 10 min/in @ E	o fine (Elv. 647	Sand, little coarse to 7.0	o fine Gravel,	Med	lum Stiff
4 5 6 7 8 9 10	Light-brown mottled SILT, some medium to fine Sand, little coarse to fine Gravel, with occassional cobbles Gravel and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second						ium Stiff
11 12 12 13 14		End of Test Pl	it at 10	.2 Feet			
NOTE:		Fig. 134				S	ESI

100				
PRO	JECT NO. 9999 PROJECT Prop. Logistics Center	TEST PIT	NO.	STP- 25
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 657'+	INSPECTE	D BY	JQ
WAT	ER OBSERVATION Seepage at 5'6"±	DATE EXC	AVATED	3/19/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR
0	8" Topsoil			
1	Light-brown/yellow coarse to fine SAND, and Silt, little coarse to	fine Gravel	Mediu	m Dense
2	Percolation Rate = 40 min/in @ Elv. 655.0			
3_	Light-brown SILT, some coarse to fine Sand, little coarse to with occassional cobbles	fine Gravel,	Medi	ium Stiff
4				
5_	Light-brown mottled SILT, some coarse to fine Sand, little co Gravel, with occassional cobbles	arse to fine	Med	ium Stiff
_				
7				
8 <u> </u>	End of Test Plt at 8.0 Feet			
9				
10				
 11				
NOTE:			0	
	Fig. 135		3	

PRO.	JECT NO. 9999 PROJECT Prop. Logistics Center TE	EST PIT NO.	STP- 26
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 655'+ IN	SPECTED B	Y JQ
WAT	ER OBSERVATION Seepage at 6.5'± DA	ATE EXCAVA	TED
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	REL	ATIVE DENSITY OR CONSISTENCY
0	4" Topsoil		
1 1 2	Light-brown SILT, some coarse to fine Sand, little coarse to fine with occassional cobbles	Gravel,	Medium Stiff
	Percolation Rate = 13.3 min/in @ Elv. 653.0		
3	Brown coarse to fine SAND, some Silt, trace Gravel		Medium Dense
4			
5			
_	Light-brown mottled SILT, some coarse to fine Sand, trace Grave	əl,	Medium Stiff
7 <u>—</u>	with occassional cobbles		
° 9	End of Test Plt at 8.0 Feet		
_			
10			
11_			
_			
12			
 13			
_			
14			
NOTE:			SESI



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PRO.	JECT NO. 9999 PROJECT Prop. Logistics Center	TEST PIT	NO.	STP- 27
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 652'+	INSPECT	ED BY	JQ
WAT	ER OBSERVATION Seepage at 8'±	DATE EX	CAVATED	3/19/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR
0	4" Topsoil			
1 <u></u>	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles		Med	lum Stiff
2_	Percolation Rate = 24 mln/in @ Elv. 650.0			
3_				
_				
4				
5				
	Light-brown motiled SIL1, some coarse to fine Sand, trace	Gravel,	Medi	um Stiff
6				
_				
7				
。				
°				
9				
_	End of Test Pit at 9.0 Feet			
10				
_				
11				
12				
_				
13				
-				
14				
IOTE:			S	FSI



1			T	
PRO	JECT NO. 9999 PROJECT Prop. Logistics Center T	est pit no.		STP- 28
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 648'+		BY	JQ
WAT	ER OBSERVATION Seepage at 8'± D	ATE EXCAV	ATED	3/19/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RE	LATIVE CONS	DENSITY OR
0	8" Topsoil			
1	Light-brown/yellow coarse to fine SAND, and Silt, trace Gravel		Mediu	m Dense
2	Percolation Rate = 7.2 min/in @ Elv. 646.0			
3 4 	Light-brown SILT, some coarse to fine Sand, little coarse to fine with occassional cobbles	Gravel,	I, Medium Stiff	
5 6 7 8	Light-brown mottled SILT, some coarse to fine Sand, little coars fine Gravel, with occassional cobbles	e to	Mediu	um Stiff
9 9 10 10 11 12 13 13 14 14 14	End of Test Pit at 8.5 Feet			
NOTE:			S	FSI



1			
PRO.	JECT NO. 9999 PROJECT Prop. Logistics Center TES	ST PIT NO.	STP- 29
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 657'± INS	PECTED BY	JQ
WAT	ER OBSERVATION Seepage at 7'± DA	TE EXCAVATED	3/19/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIV	E DENSITY OR SISTENCY
0	4" Topsoil		
1 <u>—</u> 1—	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles	Media	um Dense
2	Percolation Rate = 10 min/in @ Elv. 655.0		
3 4 5 6 7 8	Brown/gray mottled SILT, some coarse to fine Sand, trace Gravel	Med	llum Stiff
9 10 11 11 12 13 14 14 12	End of Test Pit at 8.5 Feet		
IOTE:		S	ESI



R.								
PRO.	JECT NO.	9999	PROJECT	Prop. L	ogistics Center	TEST PIT	NO.	STP- 30
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	655' <u>+</u>	INSPECT	ED BY	JQ
WAT	ER OBSE	RVATION	Light seepage	e at 5'5"±;	Heavy at 6'±	DATE EX	CAVATED	3/19/2018
DEPTH FT.		DES	CRIPTION / SO	IL CLASS	IFICATION		RELATIVE	DENSITY OR
0 <u> </u>	8" Te	opsoil						
1	Light	t-brown/yellow	ivel	Mediu	m Dense			
2 <u>_</u>	Perc Light-	olation Rate = -brown SILT, sor	= 30 min/in @ E me coarse to fine	Elv. 653.0 Sand, trac	e Gravel, with occas	sional cobbles	Med	ium Stiff
3 <u> </u>	Light	t-brown mottle	d SILT, some o	coarse to	fine Sand, little c	oarse to fine	Medi	um Stiff
5	Grav	'el, with occas	sional cobbies					
6_								
			End of Test F	Pit at 9.0 f	Feet			
10 <u> </u>								
¹¹ —								
12 <u></u>								
13 <u> </u>								
14								
IOTE:							S	ESI



PRO	JECT NO. 9999 PROJECT Prop. Logistics Center	TEST PIT	NO.	STP- 31
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 652'+	INSPECT	ED BY	JQ
WAT	ER OBSERVATION Seepage at 7'±	DATE EX	CAVATED	3/19/2018
DEPTH FT,	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR
0	4" Topsoil			
'	Light-brown/yellow SILT, some coarse to fine Sand, trace (Gravel,	Med	ium Stiff
2	Percolation Rate = 10.9 min/in @ Fly 650.0			
3				J
-	Light-brown mottled SILT, some coarse to fine Sand, little c	parse to fine	Medi	um Stiff
4	Gravel, with occassional cobbles			
°—				
6				
7				
_				
8				
_				
9 <u> </u>				
10	End of Test Pit at 9.0 Feet			
11_				
_				
12				
_				
13				
14-				
OTE:			S	ESI



PRO	JECT NO. 9999 PROJECT Prop. Logistics Center T	EST PIT NO.	STP- 32
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 647'+ II	NSPECTED BY	JQ
WAT	ER OBSERVATION Seepage at 6.5'± D		D 3/19/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELAT	IVE DENSITY OR
0	8" Topsoil		
1 <u></u>	Light-brown/yellow coarse to fine SAND, and Silt, trace Gravel	Me	dlum Dense
2	Percolation Rate = 12 min/ln @ Elv. 645.0		
3	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles	N	edium Stiff
5 6 7	Light-brown mottled SILT, some coarse to fine Sand, little coarse Gravel, with occassional cobbles	e to fine M	edium Stiff
8			
9 10 10 11 11 12 13 13 14 14 14 14 12 14 14 12 14 14 12 14 14 12 14 10 10 10 10 10 10 10 10 10 10	End of Test Pit at 6.0 Feet		
NOTE:			SESI



Definitions of Identification Terms for Granular Soils

Our experience has shown that the following field identification system, which is patterned somewhat after the Burmister System, permits a more detailed breakdown of the components within a soil sample than other identification systems allow. It also compels the supervising technician to examine a sample quite closely in order to accurately describe the components within the sample.

Principal Component (All Capitalized)

- GRAVEL More than 50% of the sample by weight is Gravel
- SAND More than 50% of the sample by weight is Sand
- SILT More than 50% of the sample by weight is Silt

Minor Component (Proper Case)

- Gravel Less than 50% of the sample by weight is Gravel
- Sand Less than 50% of the sample by weight is Sand
- Silt Less than 50% of the sample by weight is Silt

Proportion Terms

- and Component ranges from 35% to 50% of the sample by weight
- some Component ranges from 20% to 35% of the sample by weight
- little Component ranges from 10% to 20% of the sample by weight
- trace Component ranges from 0% to 10% of the sample by weight

Size of Soil Components

- Gravel
 - Coarse gravel ranges from 3 inches to 1 inch
 - Medium gravel ranges from 1 inch to 3/8 inch
 - Fine gravel ranges from 3/8 inch to No. 10 sieve
- Sand
 - o Coarse sand ranges from No. 10 sieve to No. 30 sieve
 - o Medium sand ranges from No. 30 sieve to No. 60 sieve
 - o Fine sand ranges from No. 60 sieve to No. 200 sieve
- Silt
 - o Material which passes the No. 200 sieve
- Clay
 - o Material which passes the No. 200 sieve
 - o Exhibits varying degrees of plasticity

Gradation Designations

- Coarse to fine (c-f)
- Coarse to medium (c-m)
- Medium to fine (m-f)
- Coarse (c)
- Medium (m)
- All fractions greater than 10% of the component Less than 10% of the component is fine
- Less than 10% of the component is nine
- Less than 10% of the component is coarse
- Less than 10% of the component is medium and fine
- lium (m) Less than 10% of the component is coarse and fine
- Fine (f)

Less than 10% of the component is coarse and medium











APPENDIX



Checked By: VRS



Checked By: VRS



Checked By: VRS



Tested By: MF

Checked By: KP

RSA GEOLAB

CALIFORINIA BEARING RATIO

Project:	Propose Logistics Center	Project No.:	892
	SESI Job No. 09999 Phase 2	Lab Log #:	18-086
Client:	SESI Consulting Engineers	Date:	5-1-18

Sample: Pugsley Road (S-1) Blows/Layer: 10

<u>M</u>	Moisture Content			126.2	pcf (initial)
			CBR Soaked' Yes		
Initial:	6.6	%	Soak Period	96	hrs.
Final:	10.8	%	Surcharge W	10	lbs.
inal (Top 1"):	9.7	%	Swell:	0.27	%

Rate of Penetration: 0.05 in./min.

14

Penetration	Load	Corrected	Stress	C.B.
(inches)	Ibs.	Load (Ibs)	(p si)	Ratio
0.000	-8.3	0.0	0.0	
0.025	46.3	54.6	18.3	
0.050	86.2	94.5	31.6	
0.075	126.8	135.1	45.2	
0.100	157.1	165.4	55.4	5.54
0.125	181.5	189.8	63.6	
0.150	202.2	210.5	70.5	
0.175	221.0	229.3	76.8	
0.200	237.2	245.5	82.2	5.48
0.300	302.0	310.3	103.9	
0.400	367.0	375.3	125.7	
0.500	435.4	443.7	148.6	





EM\NY-GL\CBR\SESI-pugsley10

RSA GEOLAB

CALIFORINIA BEARING RATIO

Project:	Propose Logistics Center	Project No.:	892
	SESI Job No. 09999 Phase 2	Lab Log #:	18-086
Client:	SESI Consulting Engineers	Date:	5-1-18

Sample: Pugsley Road (S-1) Blows/Layer: 25

M	Moisture Content			135.3	pcf (initial)
			CBR Soaked Yes		
Initial:	6.6	%	Soak Period	96	hrs.
Final:	8.4	%	Surcharge W	10	lbs.
inal (Top 1"):	8.1	%	Swell:	0.04	%

Rate of Penetration: 0.05 in./min.

Penetration	Load	Corrected	Stress	C.B.
(inches)	Ibs.	Load (lbs)	(psi)	Ratio
0.000	-8.3	0.0	0.0	
0.025	228.6	236.9	79.3	
0.050	429.6	437.9	146.6	
0.075	642.6	650.9	217.9	
0.100	836.6	844.9	282.9	28.29
0.125	995.6	1003.9	336.1	
0.150	1211.0	1219.3	408.3	
0.175	1370.0	1378.3	461.5	
0.200	1510.0	1518.3	508.4	33.89
0.300	2074.0	2082.3	697.2	
0.400	2665.0	2673.3	895.1	
0.500	3329.0	3337.3	1117.5	





EM\NY-GL\CBR\SESI-pugsley25

RSA GEOLAB

CALIFORINIA BEARING RATIO

Project:	Propose Logistics Center	Project No.:	892
	SESI Job No. 09999 Phase 2	Lab Log #:	18-086
Client:	SESI Consulting Engineers	Date:	5-1-18

Sample: Pugsley Road (S-1) Blows/Layer: 56

1

	Moisture Co	ntent	Dry Density:	138.9	pcf (initial)		
			CBR Soaked' Yes				
Initial:	6.6	%	Soak Period	96	hrs.		
Final:	9.6	%	Surcharge W	10	lbs.		
inal (Top 1"):	7.9	%	Swell:	0.03	%		
Rate of Penetra	ation: 0.05 in	/min.					
1	Penetration	Load	Corrected	Stress	C.B.		
	(inches)	ībs	Load (Ibs)	(psi)	Ratio		
(0.000	-8.3	0.0	0.0			
	0.025	139.0	147.3	49.3			
	0.050	255.0	263.3	88.2			
	0.075	375.0	383.3	128.3			
	0.100	525.0	533.3	178.6	17.86		
	0.125	796.0	804.3	269.3			
	0.150	1022.0	1030.3	345.0			
	0.175	1380.0	1388.3	464.9			
	0.200	1663.0	1671.3	559.6	37.31		
	0.300	2445.0	2453.3	821.5			
	0.400	3146.0	3154.3	1056.2			
	0.500	3975.0	3983.3	1333.8			





EM\NY-GL\CBR\SESI-pugsley56

RSA Geolab Expansion Index of Solis ASTM D4829

Project:	Proposed Logi SESI Job No.	istics Center 09999 Phase 2				Proj. No.	892
Client:	SESI Consulti	ng Engineers				Date:	5-1-18
Sample:	TP-16						
Initial Molsture:	6.0	3 %		Dina MA-	204.04		
				rang w.	2129,359	guer.	
	<u>174.68</u>	gms.		initial Ht:	<u>1.000</u>	in	
Initial Dry Unit Wt:	<u>127.87</u>	pof		Specific Gravity:		27	
Initial Seturation:	<u>51.35</u>	%		Final Wt:	<u>182.11</u>	gms	
				Dry Wt:	<u>164.77</u>	gms	
Expansion Test Data							
Initial Dial Reading:	0.000	mm	Final Moisture	æ	<u>10.5</u>	%	
Final Dial Reading:	0.548	mm					
	_						
Expansion Index (El):	22					
Tested by:	<u>RIB</u>	Entered by:	KH	Check	ed by:	KP	

PROJECT NO. 9999		PROJECT Prop. Logistics Center			TEST PIT	NO.	TP-20A				
LOC	LOCATION SEE FIGURE 1		APPROX. E	LEV.	625 ±	INSPECT	ED BY	RR			
WAT	WATER OBSERVATION			Seepage at 7' ± DAT			CAVATED	10/29/2018			
DEPTH FT.		RELATIVE DENSITY OR CONSISTENCY									
0	4" Topsoli										
-	Light brown SILT, and coarse to fine Sand, trace Gravel with Medium S										
1	Cob	bles									
-											
2											
-	Brov	wn Clayey Silt, a	and coarse to	fine Sa	nd, little coarse to	fine					
3	Grav	el with Cobble	s and Boulder	S							
	Infilt	ration Rate at e	l. 622 = 9 in/h	r			Med	ium Stiff			
4—											
°—	-										
	Sa	ame Mottled (O	bserved deco	mposed	d Mica Schist)		Medium Stiff				
°—							to				
7								Stiff			
8											
9											
			End of Test F	Pit at 9 ±	Feet						
10											
_											
11											
_											
12											
_											
13											
—											
14											
SESI CONSULTING ENGINEERS											

PROJECT NO. 9999		PROJECT	PROJECT Prop. Logistics Center		TEST PIT	NO.	TP-27	
LOC	LOCATION SEE FIGURE 1		APPROX. E	LEV.	632 ±	INSPECT	ED BY	RR
WATER OBSERVATION Not Encountered			ntered	DATE EXCAVATED 10/29/2				
DEPTH FT.		RELATIVE	E DENSITY OR BISTENCY					
0	2 inc	h Topsoil						
-	Brov	vn coarse to fin	e Sand, and S	Silt, little	medlum to fine G	ravel	Mediu	um Dense
1	with	occasional Col	obles and Bou	lders				
2								
-								
3	Infilt	ration Rate at e	l. 629 = 15.0	in/hr				
-								
4								
-	Sam	e Mottled Sil	t				Medium Dense	
5								
-								
6								
'								
_						1		
8								
⁹ —								
10								
10				u 40 ·				
11_	End of Test Pit at 10 ± Feet							
12								
13								
14								

SESI CONSULTING ENGINEERS

PRO	PROJECT NO. 99999		PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-27A
LOC	ATION	TON SEE FIGURE 1 APPROX. ELEV. 634 ± INSPEC		INSPECT	ED BY	RR		
WAT	ATER OBSERVATION Not Encountered DATE EX				DATE EX	CAVATED	10/29/2018	
DEPTH FT.		RELATIVE	E DENSITY OR BISTENCY					
0	2 ind	ch Topsoil						
_	Brov	wn coarse to fin	e Sand, and S	Silt, little	coars to fine Grav	vel with	Mediu	ım Dense
1	0000	asional Cobbles	and Boulders	1				
-								
2								
3								
4								
	Infilt	ration Rate at e	l. 629.5 = 15.0) in/hr				
5								
	_		_					
0	Sam	e Mottled Si	-1				Medi	um Stiff
7_								
8								
9								
_								
10	<u></u>							
_			End of Test Pi	t at 10 :	± Feet			
11								
_								
12								
13								
-								
14								

SESI CONSULTING ENGINEERS

PRO	JECT NO.	9999	PROJECT	Prop	. Logistics Center	TEST PIT	NO.	TP-34A
LOC	ATION	TION SEE FIGURE 1 APPROX. ELEV. 600 ± INSPEC		INSPECT	ED BY	RR		
WAT	ER OBSE	RVATION	Se	eepage	e at 9' ±	DATE EX	CAVATED	10/31/2018
DEPTH FT.	DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION							
0	2 inc	ch Topsoil						
-	Brov	wn coarse to fin	e Sand, and S	Silt, littl	e medium to fine G	iravei	Mediu	Im Dense
1	with	occasional Col	bles and Bou	Iders				
2								
°—								
4_								
5								
6	Sam	e Mottled Sil	t				Mediu	m Dense
_								
7_								
-								
8								
ð								
10				11 81 9				
11								
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12								
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13								
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SESI CONSULTING ENGINEERS
PRO.	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-35A
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	599 ±	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	Se	epage	at 8' ±	DATE EX	CAVATED	10/31/2018
DEPTH FT.		DESC	RIPTION / SO	IL CLA	SSIFICATION		RELATIVE	E DENSITY OR
0	2 ind	ch Topsoil						
-	Brown coarse to fine Sand, and Silt, little coarse to fine Gravel							ım Dense
1	with	occasional Col	obles and Bou	Iders				
-								
2_								
3_								
4—								
5								
	Som	 Method City 						_
6_	Sam	e Molued St	L				Medin	m Dense
7_								
_								
8								
_								
9								
-		d	5					
10_		Ε	End of Test Pi	t at 9.5	± Feet			
11								
12								
12								
13								
14								

PRO.	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-37A
LOC	ATION	SEE FIGURE 1	APPROX. EL	.EV.	607 ±	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	Se	epage	at 6' ±	DATE EX	CAVATED	10/31/2018
DEPTH FT.		DESC	RIPTION / SOI	L CLAS	SIFICATION		RELATIVE DENSITY O	
0	4 inc	ch Topsoil						
-	Brov	wn coarse to fin	Mediu	um Dense				
1	with	occassional Co	bbles and Bou	ulders				
2								
°—								
	Sam	e Mottled Sil	6				Modiu	m Donoo
5	Gam		6					
_								
6								
_								
7								
-								
8								
			End of Test Pi	it at 8 ±	Feet			
9_								
10								
11_								
12								
13								
—								
14								

PRO.	JECT NO.	9999	PROJECT	Prop. I	ogistics Center	TEST PIT	NO.	TP-39A	
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	608 ±	INSPECT	ED BY	RR	
WAT	ER OBSE	RVATION	Se	epage a	t 6.5' ±	DATE EX	CAVATED	10/31/2018	
DEPTH FT.		DESC	RIPTION / SO		SIFICATION		RELATIVE DENSITY OF CONSISTENCY		
0	3 inc	ch Topsoil							
-	Brov	wn Silt, and coa	rse to fine Sa	nd, little	medlum to fine G	ravel with	Med	ium Stiff	
1	occasional Cobbles and Boulders								
-									
2									
3									
4			-						
5	Sam	ie Mottled Si	t				Med	ium Stiff	
							1		
6									
7									
			End of Test F	Pit at 7 ±	Feet				
8									
9									
10									
—									
11									
12									
-									
13									
14									
						ESI CONEI		NGINEEDS	

PRO.	JECT NO.	9999	PROJECT	Prop	. Logistics Center	TEST PIT	NO.	TP-49A
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	588 ±	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	S	eepage	ə at 8' ±	DATE EX	CAVATED	10/31/2018
DEPTH FT.		DESC	RIPTION / SO	IL CLA	SSIFICATION		RELATIVE	E DENSITY OR
0	3 inc	ch Topsoil						
-	Brov	vn Silt, and coa	rse to fine Sa	nd, littl	e medium to fine G	ravel with	Med	lum Stiff
1	occasional Cobbles and Boulders							
-								
2								
_								
3								
4								
5	Dom		L.				Medium Stiff	
	Sam	18 IVIOTIIBO SII	τ				Med	
6_								
7_								
8								
_								
9								
_								
10								
11								
-			End of Test P	it at 11	± Feet			
12								
13								
14								

PRO.	JECT NO.	9999	PROJECT Prop.	ogistics Center	TEST PIT	NO.	TP-50A
LOC	ATION	SEE FIGURE 1	APPROX. ELEV.	588 ±	INSPECT	ED BY	ŔR
WAT	ER OBSE	RVATION	Light Seepaç	je at 8' ±	DATE EX	CAVATED	10/31/2018
DEPTH FT.		DESC	CRIPTION / SOIL CLAS	SIFICATION		RELATIVE DENSITY OF	
0	Brow	wn clayey Silt, a	and coarse to fine San	d, little medium to	fine Gravel		
	with occasional Cobbles and Boulders						ium Stiff
1							
-							
2							
	1						
3					Ĭ		
-							
4							
	Sam	e Mottled cla	ayey Silt			Medi	um Stiff
5							
6							
-							
7_							
-							
8							
			End of Test Pit at 8 ±	Feet			
9_							
10							
TI							
12_							
13							
17							

LOCATION SEE FIGURE 1 APPROX. ELEV. 565* INSPECTED BY RR WATER OBSERVATION Not Encountered DATE EXCAVATED 2/14/2018 DEEPTH DEBGRIPTION / SOIL CLASSIFICATION RELATIVE DEBRITY OR CONSISTENCY 0	PRO.	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-301	
WATER OBSERVATION Not Encountered DATE EXCAVATED 0/14/2018 DEFINI FT. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OF CONSISTENCY 0	LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	555' <u>+</u>	INSPECT	ED BY	RR	
DEFYN Pr. DESCRIPTION / SOIL CLASSIFICATION RELATIVE DENSITY OF CONSISTENCY 0	WAT	ER OBSE	RVATION	No	ot Encol	untered	DATE EX	CAVATED	9/14/2018	
0	DEPTH FT.		DES	RIPTION / SO	IL CLAS	SEIFICATION		RELATIVE DENSITY OF CONSISTENCY		
1 Fill- Light Brown/Gray coarse to fine Send, some Sit, little medium to Loose 1 fine Gravel, with occasional cobble, brick, and concrete Loose 2	0	3" T	opeoli							
3 Possible Fill- Light Brown coarse to fine Sand, some Silt, little medium to Loose 4 fine Gravel, with coossional cobbles Ittle medium to 4 Topcoli	1 1 2	Fil- I fine (Light Brown/Gri Gravel, with occ	ay coarse to fi casional cobbi	in e Sen Ie, brick	d, some Sit, little r , and concrete	nedium to	L	0060	
Topsoli Topsoli Orange brown clayey Silt, some medium to fine Sand, trace Gravel Medium-Stilf 6	3 4	Posel fine G	ble Fill- Light B Pravel, with coc	rown coarse t asional cobbk	o fine S se	and, some Silt, litt	ie medium to	L	0088	
Orange brown clayey Silt, some medium to fine Sand, trace Gravel Medium-Stilf 6	5	Торы	Ba							
Image: marked base of the stand, some slit, trace Gravel Medium-Dense 8 Medium-Dense 8 Medium-Dense 9 End of Test Pit at 9.0± Fest 10 Image: marked base of test Pit at 9.0± Fest 11 Image: marked base of test Pit at 9.0± Fest 12 Image: marked base of test Pit at 9.0± Fest 13 Image: marked base of test Pit at 9.0± Fest 14 Image: marked base of test Pit at 9.0± Fest	6	Orar	nge brown clay	ey Silt, some i	medium	to fine Sand, trac	e Gravel	Medi	um-Stiff	
9		Brow	vn medium to fi	ne Sand, sorr	ne Silt, t	race Gravel		Mediu	m-Dense	
10 11 12 13 13 14	9 <u> </u>			End of Test P	'it at 9.0	± Feet				
11 12 13 14	10									
	11									
13 14										
13 14	···									
 14	13									
	14									

PRO.	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-302
LOC	ATION	SEE FIGURE 1	APPROX. E	ELEV.	596' <u>+</u>	INSPECT	ED BY	RR
WAT	er obse	RVATION	No	ot Encou	untered	DATE EX	CAVATED	8/14/2018
DEPTH FT.		DESC	RIPTION / 80		SIFICATION		RELATIVE	DENSITY OF
0 1 2	Light bould	Brown medium ers	to fine Sand,	aoma S	ilit, little Gravel, wit	h occasional	Mediu	m-Dense
3 4 5	Browr bouide	n medium to fin ar	e Sand, some	siit, liti	le Gravel, with occ	gelonal	Mediu	m- Dense
6 7 8 9 0			End of Test P	lt et 6.6	<u>+</u> Feet			
1 2 3 4								

PROJ	ECT NO. 9999	PROJECT	Prop. Logistics Center	TEST PI	r NO.	TP-303
LOC/	TION SEE FIGURE	APPROX.	ELEV. 618' <u>+</u>	INSPECT	ED BY	RR
WATE	ER OBSERVATION	N	ot Encountered	DATE EX	CAVATED	e/14/201 8
DEPTH FT.	DE	BCRIPTION / SC	AL CLASSIFICATION		RELATIVE	DENSITY OF
0					1	
	Light Brown mediu	m to fine Sand,	, and Slit, little medium to f	ine Gravel ,	Mediu	m-Dense
1	with occasional co	bles and bouk	ders			
_						
2						
,_						
°—						
4						
_						
5						
-		End of Test	Pit at 5 <u>+</u> Feet			
6						
7						
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9						
10						
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11						
-						
12						
14						

PROJ	ECT NO.	9999	PROJECT	Prop.	Logistice Center	TEST P	T NO.	TP-304
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	616' <u>+</u>	INSPECT	TED BY	RR
WATE	er obsei	RVATION	No	x Encou	ntered	DATE ED	CAVATED	9/14/2018
DEPTH FT.		DESC	RIPTION / SO	IL CLAS	SIFICATION		RELATIVE	DENSITY O
0								
-	Light	Brown medium	to fine Sand,	some S	ilit, tr ace Gravel , w	/ith	Mediu	m-Dense
1	OCCES	lonal oobbles a	nd boulders					
2								
3_								
4								
-1								
₅ -								
			End of Test F	7t et <u>5+</u>	Feet			
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2								
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PROJ	IECT NO.	9999	PROJECT	Prop. L	ogistics Center	TEST PI	r NO.	TP-305
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	618' <u>+</u>	INSPECT	ED BY	RR
WATI	er obse	RVATION	No	t Encoun	tered	DATE EX	CAVATED	9/14/2018
DEPTH FT.		DESC	RIPTION / 80	IL CLASS	FICATION		RELATIVE	DENSITY OI
0 1	Light	Brown medium Ional cobbies a	to fine Sand, Ind bouldera	some Si	it, trace Gravel, v	vith	Mediu	m-Dense
2 <u> </u>								
3 4								
5								
6			End of Test F	 Pit at 6 <u>+</u> F	Feet			
7—								
9								
1_								
2								
3								
4								

PRO	JECT NO.	9999	PROJECT	Prop. I	ogistics Center	TEST PI	T NO.	TP-306
LOC	CATION	SEE FIGURE 1	APPROX. E	LEV.	618' <u>+</u>	INSPECT	red by	RR
WAT	rer obser	RVATION	No	ot Encou	mered	DATE E	CAVATED	9/14/2018
DEPTH FT.		DESC	RIPTION / 80		BIFICATION		RELATIVE	DENSITY OR
0	2-inch	es Topsoil						
	Light E	Brown Silt, son	ne coarse to f	ins Sand	, trace Grave l			Suff
6 7 8	Light to fine	Bown mottled 9 Gravel with w	Silt, some ma vezthered bou	edium to Ilden	fine Sand, little m	1 edium	Very Stiff	
9							*****	
		1	End of Test Pi	it at 9 .0 <u>+</u>	Feet			
11								
12 <u> </u>								
13 <u> </u>								

PRO	JECT NO. 9999 PROJECT Prop. Logistics Center TES	F PIT NO.	TP-307	
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 618'± INSP	ECTED BY	RR	
WAT	TER OBSERVATION Not Encountered DATE		9/14/2 018	
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE	DENSITY OR	
0 1	Light Brown medium to fine SAND, and Silt, trace Gravel	Mediu	m-Dense	
2 3 4	Inflitration Rate= 8 in/hr @ El. 616' <u>+</u>			
5 6 7 8	Same with some mottled Silt and occasional boulder	Dense		
9 9 10 11	End of Test Pit at 9 <u>+</u> Feet			
12 12 13 14				

PROJ	ECT NO. 9999	PROJECT	Prop. Logistics Cen	ter TEST PI	NO.	TP-401
LOCA	ATION SEE FIGURE	APPROX.	ELEV. 588.5'±		ed by	RR
WATE	ER OBSERVATION	Ne	pt Encountered	DATE EX	CAVATED	9/17/2018
DEPTH FT.	DE	BCRIPTION / SC	DIL CLASSIFICATION		RELATIVE	DENSITY OF
0	2-Inch Topsoll					_
	Light Brown mediu cobbles	m to fine SAND), and Silt, trace Grave	i, with occasional	Mediu	m-Dense
3_	Light Brown to Bro	wn medium to f	ine SAND, some Silt, i	irace	Mediu	m- Dense
-	Gravel, with occas	onal oobbiee a	nd boulders			to
4					D	6 1196
5						
6	Same with motile	d Sit				
_						
7						
_						
°—						
9						
10		End of Test F	Pit at 9 <u>+</u> Feet			
12						
13						
4						

PRO.	JECT NO.	9999	PROJECT	Prop.	Logistics Center		F NO.	TP-402
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	586.5'±	INSPECT	TED BY	RR
WAT	er obse	RVATION	No	t Encol	untered	DATE EX	CAVATED	9/17/2018
DEPTH FT.		DESC	RIPTION / 80		SEIFICATION		RELATIVE	DENSITY OF
0	2-inc	h Topeoli						
 1 2 	Light	Brown medium sional cobbles a	and boulders	and old	iyey Silt, trace Gra	vel, with	Mediu	i m-Dense
3 4 5 6 7 8 9	Light Grave San	Brown to Brown of, with occasion file with motiled	n medium to fi nal cobbles ar Slit	ine SAN nd bouid	ID, some Silt, trac	8	Mediu	m-Dense to ense
10 11 12 13			End of Test P	it at 10g	Feet			
14								

PRO.	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PI	T NO.	TP-403
LOC	ATION SEE	FIGURE 1	APPROX. E	LEV.	634' <u>+</u>	INSPEC	FED BY	RR
WAT			No	t Encol	intered	DATE E)	CAVATED	9/17/2018
DEPTH PT.		DESC	RIPTION / 80	IL CLAS	SIFICATION		RELATIVE	DENSITY OF
0	3-Inch Top	soli						
1 2	Light Brow Gravel, with Infiltration Ra	n clayey S h occaelor te = 15 In/	ilit, and mediu nai cobbies ar hr @ Ei. 632±	im to fin nd bouk :	e Sand, little med lers	llum to fine	Med	um-Stiff
3 4 5 6	Brown med with occasi	lium to fin onal cobbi	SAND, som	e mottle ere	d clayey Silt, trac	e Gravel,	Mediu	m-Dense to ense
7 8 9 10								
11								
12 13		E	End of Test P	t at 11 <u>+</u>	Feet			
14								

PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center			TP-404
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	632 ±	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	No	t Enco	untered	DATE EX	CAVATED	10/29/2018
DEPTH FT.		DESC	RIPTION / SO		SSIFICATION		RELATIVE DENSITY O CONSISTENCY	
0	Brov	vn coarse to fin	e Sand, and S	Silt, little	e coarse to fine Gra	avel with	Mediu	ım Dense
-	OCCE	asional Cobbles	and Boulders	3				
1								
2								
	Inflitration Rate at el. $629 = 10.25$ in/br							
3	Infiltration Rate at el. 629 = 10.25 in/hr							
4								
5	Sam	e Mottled Sil	t				Mediu	m Dense
			•				mound	
6								
7								
—								
8								
_								
9	<u></u>							**************
			End of Test F	Vit at 9	± Feet			
10								
12								
_								
13								
_								
14								

PRO	DJECT NO. 9999 PROJECT Prop. Logistics Center TEST PIT NO.					TP-404A		
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	632	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	No	t Encou	untered			10/29/2018
DEPTH FT.		DESC	CRIPTION / SO	IL CLAS	SIFICATION		RELATIVE	E DENSITY OR DISTENCY
0	3-ind	ch topsoil						
_	Brown medium to fine Sand, and Silt, little medium to fine Gravel							ım Dense
1	with occasional Cobbles and Boulders							
-								
2								
-								
3	Infiltration Rate at el. 629 = 7 inches/hour							
4								
	· · · · · · · · · · · · · · · · · · ·							
	Sam	e Mottled Sli	t				Mediu	m Dense
_								
0								
8_								
9								
			End of Test F	Pit at 9 :	± Feet			
10								
_								
11								
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12								
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14								

PRO.	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PI	T NO.	TP-405	
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	634.75' <u>+</u>	INSPEC	TED BY	RR	
WAT	ER OBSE	RVATION	No	t Encou	ntered	DATE E	ATE EXCAVATED 9/17/20		
DEPTH FT.		DESC	RIPTION / SO	IL CLAS	SIFICATION		RELATIVE	DENSITY OI ISTENCY	
0	3-inci	h Topeoli		_					
1 2 3	Light	Brown clayay S	Bilt, some med	llum to 1	ine Sand, trace Gr	lavaj	Medi	um-Stiff	
4	infiltratio n	Rate = 6 in/hr (ĝ ⊟. 631.75±	!					
5	.Sa m	e with mottled	claye y Silt						
6									
7									
-1									
8									
-									
9 <u> </u>									
-			End of Teat P	lt at 10+	Feet				
1									
-									
2									
_									

PRO	JECT NO. 9999 PROJECT Southeast, NY TEST	F PIT NO.	TP- 406
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 632'± INSP	ECTED BY	RR
WAT	ER OBSERVATION Not Encountered DATI	E EXCAVATED	9/17/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE	DENSITY OI
0	3" Topeoli		
1	Light Brown clayey Silt, some coarse to fine Sand, trace Gravel	Medi	um Stiff
2_			
-			
3			
<u>_</u>	Inflitration Rate = 5 in/hr @ El. 629±'		
5	Same with mottled clayey Slit		
-1			
6			
,			
8			
-			
9 <u>—</u>			
。 <u> </u>			
_	End of Test Pit at 10 ± Feet		
1			
2			
3			



PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-407
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	625	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	See	bage at	8 Feet <u>+</u>	DATE EX	CAVATED	10/29/2018
DEPTH FT.		DESC	RIPTION / SO	IL CLAS	SIFICATION		RELATIVE	E DENSITY OR BISTENCY
0	3-ine	ch topsoil						
-	Bro	wn medium to	Gravel	Mediu	um Dense			
1								
-								
2								
3	Infilt	ration Rate at e	ol. 622 = 12.0	Inches/h	nour			
4								
5	Brev				احمد ا		Mad	iume Chilf
	Brov	WI MOTUGO SIIT,	and medium (and, ashblas		Med	ium Stm
6	IITTIG	coarse to fine	Gravel with Do	uiders a				
7_								
_								
8								
9								
_			End of Test F	Pit at 9 ±	: Feet			
10								
11_								
12								
13								
14								

PROJ	ECT NO. 9999	PROJECT	Prop. L	ogistica Center	TEST PI	T NO.	TP-408
LOCA	TION SEE FIGUR	1 APPROX. E	ELEV	604 ±	INSPECT	TED BY	RR
WATE	R OBSERVATION	N	ot Encour	tered	DATE E)	CAVATED	9/17/2018
DEPTH FT.	D	ESCRIPTION / SO	L CLASS	FICATION		RELATIVE	DENSITY OF
0	2-inch Topsoll						
1 2 3	Light Brown clay	yey SILT, some r	nedium to	o fine Sand, trace	Gravel	Med	ium Stiff
4 5 6 7	Same with mo	ttied clayey Silt					9uff
8 9 9 10 11 11 12 12 13		End of Test F	Pit at 8 ± F	Fest			
14							

PRO.	JECT NO.	9999	TEST PIT	NO.	TP-409			
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	642 ±	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	No	t Encou	Intered	DATE EX	CAVATED	9/17/2018
DEPTH FT.		DESC	RIPTION / SOI	IL CLAS	8IFICATION		RELATIVE DENSITY O CONSISTENCY	
0	2-in	h Topsoil						
-	Light Brown dayey SILT, some medium to fine Sand, trace Gravel							ium Stiff
1								
2. <u></u>								-
3_								ω
_								
4	Same with mottled clayey Slit						Stiff	
-	-							
5								
ő								
7_								
8								
_			End of Test P	It at 8 ±	Feet			
9								
_								
10								
11								
12	-							
_								
13								
14				_				

PROJ	ECT NO.	9999	PROJECT	Prop. i	ogistics Center	TEST PI	T NO.	TP-410
LOC	TION	SEE FIGURE 1	APPROX.	ELEV.	644 ±	INSPECT	red by	RR
WATE	er obse	RVATION	8	eepage (0 C±'	DATE E)	CAVATED	9/21/2018
DEPTH FT.		DESC	RIPTION / 80	IL CLAS	BIFICATION		RELATIVE	DENSITY OR
0	3-in	ch Topsoll					-	
1 1 2	Ligh	t Brown SILT, a	and medium t Din/hr @ El. 6	o fi ne Sa 142 <u>1</u> '	nd, trace Gravel		Med	lum Stiff
5 	Brow Grav	vn medium to fi	ne Sand, and onal Cobbles	and Boul	Silt, little medium ders (Weathered	to fine Schist)	Media	m Dense
10 11 12 13 		1	End of Test P	it at 10 ±	Feet			
14								

PRO	DJECT NO. 999	PROJEC	T Prop. Logistics Cent	er TEST PIT NO	TP-411
LOC	CATION SEE FIG		C. ELEV.	INSPECTED	BY RR
WAT	TER OBSERVATIO	N Lis	ght Seepage at 8'+/-	DATE EXCAV	ATED 9/21/2018
DEPTH FT.		DESCRIPTION / S	SOIL CLASSIFICATION	RE	LATIVE DENSITY OF CONSISTENCY
0	2" Topsoli with ligh	it brown medium i	to fine Send, and Silt, trac	be Gravel	
	Light brown SILT, a	and medium to fir	ne Sand, trace Gravel wit	h Boulders	Medlum Stiff
5 6 7 8 9	Brown mottled med with occasional Col	lium to fine SAND), and Silt, little medium to	o fine Gravel	Medium Dense
0 1 2 3		End of Te	est Pit at 10'±		

PRO.	PROJECT NO. 9999		PROJECT	Prop. L	ogistics Center	TEST PIT	NO.	TP-412
LOCATION SEE FIGURE 1		APPROX. E	LEV.	625 ±	INSPECT	ED BY	RR	
WATER OBSERVATION Not End		t Encour	ntered	DATE EX	CAVATED	10/29/2018		
DEPTH FT.		DES	RIPTION / SO	IL CLASS	SIFICATION		RELATIVE	E DENSITY OR SISTENCY
0	3 inc	ch Topsoil						
_	Brow	wn coarse to fir	e Sand, and S	Silt, little	medium to fine	Gravel	Medlu	um Dense
1								
-								
2								
3	Infilt	ration Rate at e	el. 622 = 10.25	5 in/hr				
4								
	Sam	ne Mottled Si	lt					
- ⁻								
7								
8								
_								
9								
_			End of Test I	Pit at 9 ±	Feet			
10								
_								
11								
—								
12								
13								
14								

PRO	JECT NO.	9999	PROJECT	Prop. I	ogistics Center	TEST PIT	NO.	TP-413
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	625 ±	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	S	eepage	at 7 <u>+</u>	DATE EX	CAVATED	10/29/2018
DEPTH FT.	DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION						RELATIVE	E DENSITY OR SISTENCY
0	2-Inc	ch topsoil						
1	Brow	wn coarse to fin	e Sand, and S	Silt, little	medium to fine		Mediu	um Dense
2	Grav	ver with occasic	nai Coddies a		der			
3_								
4	Som	Nottlad Sik					Modi	
_	San	IC MOLLED SIN	L				MACIC	
5								
6								
7_								
_								
8								
			End of Test F	Pit at 9 ±	Feet			
10								
11_								
12								
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13								
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14								

PRO.	JECT NO.	9999.4.1	PROJECT	Prop	. Logistics Center	TEST PIT	NO.	TP-413A
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	625 ±	INSPECT	ED BY	RR
WAT	ER OBSE	RVATION	No	t Enco	ountered	DATE EX	CAVATED	10/29/2018
DEPTH FT.		DESC	RIPTION / SO	IL CLA	SSIFICATION		RELATIVE	E DENSITY OR SISTENCY
0	2-inc	ch topsoil						
-	Bro	wn medium to	fine Sand, and	d Silt, I	ittle medium to fine	Gravel	Mediu	um Dense
1	with	occasional Co	bbles and Bou	Iders				
2_								
3	Infilt	ration Rate at e	l. 622 = 12 in/	hr				
4								
5	Due	. Marila d Olik						0.00
	Brow	vn Mottled Silt,	and coarse to	tine S	and, little medium t	o fine Gravel	Med	ium Stiff
6								
7_								
8								
_			End of Test F	Pit at 9	± Feet			
9								
10								
_								
11								
-								
12								
13								
14								

PRO	JECT NO. 9999	PROJECT	Prop. Logistics Center	TEST PI	r NO.	TP-414
LOC	SATION SEE FIGURE 1	APPROX. I	ELEV.	INSPECT	ED BY	RR
WAT	TER OBSERVATION NE DATE EXCAVATI		CAVATED	9/21/2018		
DEPTH FT.	DES	CRIPTION / SO	DIL CLASSIFICATION		RELATIVE	DENSITY OF
0	2" Topaoli					
1 1 2	Light brown SILT, and m cobbies	edium to fine	Sand, trace Gravel with oc	casional	Med	lum Stiff
3 <u> </u>						
4_						
_						
6						
6						
_						
7_	Brown medium to fine SA	ND, and Silt, I	ittle mottled medium to fine	Gravel with	Mediu	im Denee
8_	occasional Cobbles and i	Bouldera				
9 <u> </u>						
10						
-		End of Test	Pitat 10'±			
11						
2						
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3						
4						

PRC	DJECT NO. 9999	PROJECT	Prop. Logistics Center	TEST PI	NO.	TP-415
LOC	CATION SEE FIGURE 1	APPROX. I	ELEV.		ed by	RR
WAT	TER OBSERVATION		NE	DATE EX	CAVATED	9/21/2018
DEPTH PT.	DES	CRIPTION / SC	DIL CLASSIFICATION		RELATIVE	DENSITY OR ISTENCY
0	2" Topsoli					
	Light Brown SILT, and r	nedium to fine	Sand		Medi	um Stiff
5 6 7 8 9	Brown mottled medium f with occasional Cobbles	to fine SAND, a and Boulders	and Silt, little medium to fin	e Grzvel	Mediu	m Dense
10 11 12 13		End of Tes	t Pit at 10'±			

PRO	JECT NO. 9999	PROJECT	Prop. Logistica Centar	TEST PI	r NO.	TP-416
LOC	ATION SEE FIGURE 1	APPROX.	:LEV	NSPECT	ED BY	RR
WAT	FER OBSERVATION	8	sepage @ 4' <u>+</u>	DATE EX	CAVATED	9/21/2018
DEPTH FT.	DES	CRIPTION / 80			RELATIVE	DENSITY OF
0	2ª Topsoli					
1 2	Light brown SILT, and m	edium to fine	Sand, trace Gravel		Medi	um Stiff
3 4						
5 6						
7 8 9	Brown mottled medium to with occasional Cobbles	o fine SAND, a and Boulders	and Silt, little medium to fin	e Gravel	Mediu	m Dense
10 11		End of Tesi	t Pit at 10'±			
12 <u> </u>						
 14						

PRC	DJECT NO. 9999 PROJECT Prop. Logistics Center		NO.	TP-601
LOC	CATION SEE FIGURE 1 APPROX. ELEV.	INSPECT	ED BY	RR/UK
WAT	TER OBSERVATION Heavy Seepege @ 5.0'±/ Seepege @ 3.0'±	DATE EXC	CAVATED	10/3/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OF
0	2-inch Topsoli			
1 2	Light Brown Silt and medium to fine Sand, trace Gravel with occasion	al cobbies	Mad	d. Soft
3 4 5	Brown Sand and mottled Silt, trace Gravel with occasional cobbles an	d boulders	Med. I	Dense
	END OF TEST PIT AT 8 FEET <u>+</u>			

.

PRO	ROJECT NO. 9999 PROJECT Prop. Logistics Center TEST PIT NO. OCATION SEE FIGURE 1 APPROX ELEV INSPECTED BY					
LOC	ATION SEE FIGURE 1 APPROX. ELEV.	INSPECTED BY	RR			
WATER OBSERVATION Seepage @ 3.5'±/ Heavy Seepage @ 5.5'± DATE EXCAVATED						
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELA	TVE DENSITY OI			
0						
	Light Brown Silt and medium to fine Sand, trace Gravel		Med. Soft			
1						
<u>, </u>						
2						
<u></u>						
4_	Brown medium to fine Sand and motified Silt impos Grouel		led Dense			
_		n l	neg. Lenne			
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<u>ا _ ہ</u>	END OF TEST FIT AT SPEEL T					
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2						
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PRO	JECT NO. 9999 PROJECT Prop. Logistics Cente	TEST PIT	NO.	TP-601
LOÇ	ATION SEE FIGURE 1 APPROX. ELEV.	INSPECTE	D BY	RR
WAT	TER OBSERVATION Seepage @ 9.0'±	DATE EXC	AVATED	10/3/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OF
0	2-Inch Topsol			
1 2 3	Light Brown Silt, and medium to fine Sand, trace Gravel with coo	asional oobbles	Me	d. Swy
4 5	Brown medium to fine Send and motiled Silt, trace Gravel with occasional col	bies and boulders	Med. I	Dense
	END OF TEST PIT AT 10 FEET ±			
A				

PRO	JECT NO. 9999 PROJECT Prop. Logistics Center		NO.	TP-602
LOC	ATION SEE FIGURE 1 APPROX. ELEV.	INSPECT	ED BY	RR
WAT	ER OBSERVATION Seepage @ 3.5' ± /Heavy Seepage @ 6' ±	DATE EX	CAVATED	10/4/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OF
0	2-Inch Topsoll			
	Light Brown Silt and medium to fine Sand, trace Gravel with occasion	ei cobbies	Me	d. Stiff
1				
-				
2				
4	Results maniferen in fine Read and motified Offic Bills seems to the Association in the set block and		Mad	Beers
			MCC.	Lense
5		1		
-1				
6				
7				
_				
8				
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<u> </u>	END OF TEST PIT AT 9 FEET ±	1		
0_				
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1				
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3				
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TP-603 and TP-604 NOT EXCAVATED

PRO	JECT NO. 9999 PROJECT Prop. Logistics Center TEST PIT	NO.	TP-605					
LOC	ATION SEE FIGURE 1 APPROX. ELEV. ± INSPECT	ed by	RR					
WAT	ER OBSERVATION Light Seepage @ 3.5±', Heavy @ 6.5±' DATE EX	CAVATED	10/4/2018					
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE	DENSITY O					
0	2-Inch Topsoll							
	Light Brown SILT, and medium to fine Sand, trace Gravel, with Cobbles	Med	um Stiff					
3	Percolation Rate = 6 In/hr							
4	Brown coerse to fine Sand, and Sit, little medium to fine Gravel	Mediu	m Dense					
-1	with occasional Cobbles and Boulders							
5								
-								
6								
<u>'</u>								
8_								
_	End of Test Pit at 8 ± Feet							
9								
0								
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1								
2								
3								
_								
4								
PF	ROJECT NO.	9999	PROJECT	Prop	. Logistics Center	TEST PIT	NO.	TP-606
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LOCATION SEE FIGURE 1		APPROX. E	LEV.	EI 540 <u>+</u>	INSPECTE	ED BY	RR	
w		RVATION	Seepage	@ 1' <u>+</u>	/Heavy @ 3' <u>+</u>	DATE EXC	AVATED	10/16/2018
DEPTH FT.		DESC	RIPTION / SOII		SIFICATION		RELATIVE	DENSITY OR
0	10-inch Tops	soll						
1	Gray/Brown S	SILT, and medi	um to fine Sar	nd, trac	e Gravel with occa	sional cobbles	Ме	d. Stiff
2_								
_								
3								
4								
5								
	END OF TES	ST PIT AT 5 FI	EET <u>+</u>					
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PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-607
LOCATION SEE FIGURE 1 AF		APPROX. E	LEV.	El 560 <u>+</u>	INSPECT	ED BY	RR	
WAT	ER OBSE	RVATION	Heavy	Seepa	ge @ 2.74' <u>+</u>	DATE EX	CAVATED	10/16/2018
DEPTH FT.		DESC	RIPTION / SO		SSIFICATION		RELATIVE	E DENSITY OR SISTENCY
0	6-inch To	psoil						
1_	Light Brow	n SILT, and me	dium to fine S	and,trad	ce Gravel with occ	asional cobbles		
2	Mottlad S	ilt @ 214						
	INOUNED 2	iit @ 2 <u>+</u>						
3								
4	END OF	TEST PIT AT 3	.5 FEET +			******		
_			<u> </u>					
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						SESI CONS		ENGINEERS

PROJECT NO. 9999		PROJECT	Prop	. Logistics Center	TEST PIT N	10.	TP-608	
LOCATION SEE FIGURE 1		APPROX. E	LEV.	El 550 <u>+</u>	INSPECTE	INSPECTED BY		
WAT	ER OBSE	RVATION	No	t Enco	untered	DATE EXC	AVATED	10/31/2018
DEPTH FT.		DES	CRIPTION / SC		ASSIFICATION		RELATIVI CONS	E DENSITY OR SISTENCY
0	10-ir	nch Topsoil						
1 <u> </u>	Light	Brown medium	to fine Sand an	nd Sift, f	trace Gravel with occa	asional cobbles	Mediu	um Dense
 3								
4								
5_								
6_	Light	Brown mediur sional Cobbles	n to fine Sand	and n	nottled Silt, trace Gr	avel with	Mediu	ım Dense
7_								
8								
9 <u> </u>			End of Test	Plt at 8	t Feet			
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PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Ce	nter	TEST PIT N	10.	TP-609
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	El 550	<u>+</u>	INSPECTE	DBY	RR
WAT	ER OBSE	RVATION	No	ot Enco	untered		DATE EXC	AVATED	10/31/2018
DEPTH FT.		DES	CRIPTION / SC		SSIFICATION	N		RELATIV	E DENSITY OR SISTENCY
0	6-inc	ch Topsoil							
1 <u> </u>	Light	Brown Silt and i	nedium to fine	Sand, t	race Gravel wi	ith occa	sional cobbles	Мес	lium Stiff
2									
з									
4									
5									
6	Light		Silt and med	llum to	fine Sand, tr	ace Gr	avel	Med	lum Stiff
	with	occasional cod	Dies						
7									
8_									
_									
9	£				~~~~~				
10			End of Test	Pit at 9	± Feet				
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11									
12									
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PRO.	JECT NO. 9999 PROJECT Prop. Logistics Center TEST PIT	NO. STP-1	
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 626.0±' INSPECT	ED BY JQ	
WAT	ER OBSERVATION Seepage at 2±'; Heavy seepage at 3±' DATE EX	CAVATED 3/28/2018	
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY	
0	4" Topsoil		
-	Light Brown Silt, some coarse to fine Sand, trace Gravel	Medium Stiff	
1	(USCS: CL)		
2	Percolation Rate = 6 min/in (Test A) @ Elv. 624 (10/30/18)	Medium Stiff	
_	Percolation Rate = 10.9 min/in (Test B) @ Elv. 624.1 (10/30/18)		
3			
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine		
	Gravel with frequent cobbles and occasional Boulder	to	
5	(USCS: CL)		
6			
7_			
		Q11#	
8		Still	
_	Test Pit Completed at 8± Feet		
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NOTE:	SESI CONS	JULTING ENGINEERS	

PRO.	JECT NO. 9999 PROJECT Prop. Logistics Center TEST P	IT NO. STP-2
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 628.0±' INSPEC	TED BY JQ
WAT	ER OBSERVATION Seepage at 2±' DATE E	XCAVATED 3/28/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoll	
- 1	Light Brown Silt, some coarse to fine Sand, little coarse to fine Gravel	Medium Stiff
1	with occassional cobbles	
—	(USCS: CL)	
2		
	Percolation Rate: 20 min/in (Test A) @ Elv. 626 (10/30/18)	Medium Stiff
3	Percolation Rate: 20 min/in (Test B) @ Elv. 626 (10/30/18)	
4		
	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine	
	Gravel with occassional cobbles	
_	(USCS: CL)	
0_		
7		
· —		
8		
9	Test Pit Completed at 8.5± Feet	
_		
10		
11		
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12		
13		

PRO	JECT NO. 9999 PROJECT Prop. Logistics Center TEST Pin	г NO .	STP-8
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 619.0±' INSPECT	ED BY	JQ
WAT	ER OBSERVATION Seepage at 6±' DATE EX	CAVATED	3/28/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE	DENSITY OR
0	3" Topsoli		
1	Light Brown/Yellow medium to fine Sand, and Silt, trace Gravel (USCS: SM)	Medi	um Dense
-	Light Brown Silt, some coarse to fine Sand, little coarse to fine Gravel	Med	ium Stiff
2	with occassional cobbles		
	Percolation Rate = 30 min/in (Test A) @ Elv. 617.0 (10/30/18)		
3 <u> </u>	Percolation Rate = 40 min/in (Test B) @ Elv. 617.0 (10/30/18)		
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine	Medi	um Stiff
-	Gravel with occassional cobbles		
5	(USCS: CL)		
6—			
8			
_			
9			
_	Test Pit Completed at 9± Feet		
10			
-			
11			
12			
13_			
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NOTE:	SESI CONS	SUI TING F	NGINEERS

PRO	JECT NO. 9999 PROJECT Prop. Logistics Center	TEST PIT	NO.	STP-12
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 645.0±'	INSPECT	ED BY	JQ
WAT	WATER OBSERVATION Seepage at 4±' DATE EXC		CAVATED	10/3/2018 3/28/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR
0	6" Topsoil			
1	Light Brown Silt, and coarse to fine Sand, trace Gravel		Medi	um Stiff
2	(USCS: CL)			
	Test 1: Percolation Rate = 60 min/in @ Elv. 643.0			
3	Test 2: Percolation Rate = 30 min/in @ Elv. 643.0 (10/3/18)			
-	Test 3: Percolation Rate = 30 min/in @ Elv. 643.0 (10/3/18)			
4				
5				
	Light Brown mottled Silt, some coarse to fine Sand, little coa	arse to	Medi	um Stiff
6	fine Gravel, with occassional cobbles			
	(USCS: CL)			
'				
°—				
9_	Test Pit Completed at 8.5± Feet			
_				
10				
-				
11				
12				
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14				
NOTE:	8	ESI CONS	ULTING E	NGINEERS

PRO	JECT NO. 9999 PROJECT Prop. Logistics Center	TEST PIT NO.	STP-101
LOC	LOCATION SEE FIGURE 1 APPROX. ELEV. 659.0± INSPECT		RR
WAT	TER OBSERVATION Seepage at 5±'	DATE EXCAVAT	ED 9/14/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELA	TIVE DENSITY OR ONSISTENCY
0	2" Topsoil		
1 2 3	Light Brown Silt, some medium to fine Sand, trace Gravel (USCS: CL) Percolation Rate ≈ 15 min/in @ Elev. 657 (10/31/18)		Medlum-Stiff
4			
5 6	Light Brown mottled Silt, and medium to fine Sand, little coar Gravel, with occassional cobbles (USCS: CL)	se to fine	<i>fedium-Stiff</i>
7 7 8			to
9			Stiff
10 <u>-</u> 11 <u>-</u>	Test Pit Completed at 9.5± Feet		
12 13 14			
NOTE:	SI	ESI CONSUL TIN	GENGINEEDS

PRO.	JECT NO. 9999 PROJECT Southeast, NY	TEST PIT	NO.	STP- 102
LOC	ATION SEE FIGURE 1 APPROX. ELEV. 632'+	INSPECT	ED BY	RR
WAT	WATER OBSERVATION Not Encountered DATE EX		CAVATED	9/14/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE	DENSITY OR
0	2" Topsoil			
1_	Light-brown SILT, and medium to fine Sand, trace Gravel .			Soft
	(USCS : SC/CL)			to
2	Percolation Rate = 30 min/in @ Elv. 630.0 (10/30/18)		Med	um-Stiff
3				
	Light-brown SIL I, some medium to fine Sand, little Gravel,		Medi	um-Stiff
5_				
6				
7	Same with mottled SILT			to
_				
8				
-				
9				
10			8	Stiff
			I	
	End of Test Pit at 10.5± Feet			
12				
13				
14				
NOTE:				

PRO	JECT NO. 9999 PROJECT Southeast, NY	TEST PIT	NO.	STP- 103
LOC			ED BY	RR
WAT	WATER OBSERVATION Not Encountered DATE EX		CAVATED	9/14/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE CONS	DENSITY OR
0	2" Topsoll			
1	Light-brown SiLT, and medium to fine Sand, trace Gravel.			Soft
2_	(USCS : SC/CL)		Mad	to
	Percolation Rate = 9.6 min/in @ Elv. 629.0 ($10/30/18$)		Med	um-Stm
3				
4	Light-brown SILT, some medium to fine Sand, little Gravel,		Med	um-Stiff
- 1	with occassional cobbles			
5	(USCS : SC/CL)			
6—	Same with mottled SILT			to
/ -				
8_				24165
9_	End of Test Pit at 8.5± Feet			
10				
12				
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13				
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14				
NOTE:			S	FSI



PRO	JECT NO. 9999 PROJECT Southeast, NY	TEST PIT I	NO.	STP- 104
LOC	LOCATION SEE FIGURE 1 APPROX. ELEV. 630'± INSPECT		DBY	RR
WAT	ER OBSERVATION Not Encountered	DATE EXC	AVATED	9/14/2018
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION		RELATIVE CONS	DENSITY OR
0	2" Topsoil			
1	Light-brown SILT, and medium to fine Sand, trace Gravel .		Medi	um-Stiff
2	(OCCS : SCICE) Percolation Rate = 30 min/in @ Fly, 628.0 (10/30/18)			
	1 0100121011 Mate - 00 Minutin @ Elv. 020.0 (10/30/16)			
3				
4				
	Light-brown SILT, some medium to fine Sand, little Gravel,			
5	with occassional cobbles		Mediu	um-Stiff
	(USCS : SC/CL)		f	to
6			s	stiff
_	Same with mottled SILT			
7_				
-				
8				
-				
9				
	End of Test Pit at 9.0± Feet			
10				
11				
12				
12-				
13				
14				
NOTE:			C	ECI



LOC	JECT NO. 9999 PROJECT Southeast, NY T ATION SEE FIGURE 1 APPROX. ELEV. 638' <u>+</u> I	TEST PIT NO. NSPECTED BY	RR	
WAT	ER OBSERVATION Not Encountered		9/14/2018	
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE	DENSITY O	
0	2" Topsoil			
1 2 3	Light-brown SILT, and medium to fine Sand, trace Gravel . (USCS : SC/CL)	Med	um-Stiff	
4 5 6	Light-brown SiLT, some medium to fine Sand, little Gravel, with occessional cobbles (USCS : SC/CL) Same with mottled SiLT	Medi	Medium-Stiff to Stiff	
7 B B				
2 — — — 2 —	End of Test Pit at 10.0± Fest			



APPENDIX C

PRO	JECT NO.	9999	PROJECT	Prop	. Logistics Center	TEST PIT	NO.	TP-A1		
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	655±		ED BY	RR/JT		
WAT		RVATION	No	ot Enco	ountered	DATE EX	CAVATED	11/11/2019		
DEPTH FT.		DESC	RIPTION / SO	IL CLA	SSIFICATION		RELATIVE DENSITY OR CONSISTENCY			
0	4± Inches	Topsoil								
	Light brow	n Clayey Silt, a		Mec	lium Stiff					
1	with occas	sional Cobbles								
_										
2										
3	Infilt	ration Rate at e	el. 652 = 7.5 ir	n/hr	Kv = 0.67	in/hr				
-										
4										
	Brown coa	arse to fine SAI	ND, some mo	ttled C	layey Silt, little coa	rse to fine	Medi	um Dense		
5	ز Gravel, with Cobbles and occasional Boulders									
		TES	F PIT COMPL	ETED	AT 5± FEET					
6										
/										
8										
9										
10										
11										
12										
13										
14										

PRO	JECT NO.	9999	PROJECT	Prop	. Logistics Center	TEST PIT	NO.	TP-A2				
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	655±		ED BY	RR/JT				
WAT	ER OBSE	RVATION	No	ot Enco	ountered	DATE EX	CAVATED	11/11/2019				
DEPTH FT.		DESC	CRIPTION / SO		SSIFICATION		RELATIVE	E DENSITY OR SISTENCY				
0	4± Inches	Topsoil										
	Brown Cla	ayey Silt, and co		Mec	lium Stiff							
1	with occas	with occasional Cobbles										
2												
-												
3	Infilt	ration Rate at e	el. 652 = 7 in/ł	۲r	Kv = 0.62 ir	n/hr						
4												
	Brown coa	arse to fine SAI	ND, some Cla	iyey Sil	It, little coarse to fi	ne Gravel	Mediu	um Dense				
5 <u></u>	with oc	with occasional Cobbles and Boulders										
		TES	T PIT COMPL	ETED.	AT 5± FEET							
0												
7												
8												
9												
10												
11												
_												
12												
13												
14												

PRO	JECT NO.	9999	PROJECT	Prop	. Logistics Center	TEST PIT	NO.	TP-A3				
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	655±		ED BY	RR/JT				
WAT	ER OBSE	RVATION	No	ot Enco	ountered	DATE EX	CAVATED	11/11/2019				
DEPTH FT.		DESC	CRIPTION / SO	IL CLA	SSIFICATION		RELATIVE	E DENSITY OR SISTENCY				
0	3± Inches	Topsoil										
_	Light brow	vn Clayey Silt, a		Mec	lium Stiff							
1	with occas	sional Cobbles										
_												
2												
—												
3	Infilt	ration Rate at e	el. 652 = 12 in	/hr	Kv = 1.24	in/hr						
_												
4												
_	Brown mo	ottled Clayey SI	LT, some coa	rse to	fine Sand, little me	dium to fine		Stiff				
5	Gravel, with frequent Cobbles and occasional Boulders											
		TES	T PIT COMPL	ETED	AT 5± FEET							
6												
_												
7												
8												
_												
9												
_												
10												
11												
12												
—												
13												
14												

PRO	JECT NO.	9999	PROJECT	Prop	. Logistics Cer	nter T	EST PIT	NO.	TP-A4	
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	659±		NSPECT	ED BY	RR/JT	
WAT	ER OBSE	RVATION	Nc	t Enco	ountered	D	ATE EX	CAVATED	11/11/2019	
DEPTH FT.		DES	CRIPTION / SO	IL CLA	SSIFICATION			RELATIVE DENSITY OR CONSISTENCY		
0	3± Inches	Topsoil								
—	Light brow	vn Clayey Silt, a	and coarse to	fine Sa	and, trace Grav	vel,		Med	lium Stiff	
1	with occas	sional Cobbles								
—										
2										
3										
4										
5										
6	Infilt	ration Rate at e	el. 652 = 2.5 ir	n/hr	Kv = (0.24 in/hr				
7										
	Brown mc	ottled coarse to	fine SAND, so	ome C	lavev Silt, little	medium	to fine	L	.oose	
8	Gravel, wi	ith frequent col	bles and occa	asiona	boulders				to	
_		-						Mediu	um Dense	
9										
		TES	T PIT COMPL	ETED	AT 9± FEET					
10										
11										
—										
12										
—										
13										
14										

PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-A5	
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	658±		ED BY	RR/JT	
WAT		RVATION	Nc	t Enco	untered	DATE EX	CAVATED	11/11/2019	
DEPTH FT.		DESC	CRIPTION / SO		SSIFICATION		RELATIVE	E DENSITY OR DISTENCY	
0	4± Inches	Topsoil							
_	Light brow	n Clayey Silt, a	,	Mec	lium Stiff				
1	with occas	sional Cobbles							
_									
2									
_									
3									
_									
4									
_									
5									
6	Brown cla	yey SILT, som	e coarse to fin	e Sand	I, little fine Grave	9	L	Loose	
	with freque	ent cobbles an	d occasional b	oulder	s (-200) = 52% '	W.C. = 11.1%		to	
/							Mediu	um Dense	
8 8	Infilt	ration Rate at e	el. 652 = 12 in.	/hr	Kv = 1.24	1 in/hr			
		тео.		ETED					
9		113			AT OT LET				
10									
_									
11									
12									
13									
14									

PRO	JECT NO.	9999	TEST PIT	NO.	TP-AA1			
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	655±	INSPECT	ED BY	RR/JT
WAT	ER OBSE	RVATION	No	ot Enco	untered	DATE EX	CAVATED	1/8/2020
DEPTH FT.		DESC	RIPTION / SO	IL CLA	SSIFICATION		RELATIVE	DENSITY OR
0	4± Inches	Topsoil						
-	Light brow	vn Clayey Silt, a	and coarse to	fine Sa	nd, trace Gravel		Med	ium Stiff
1	with occas	sional Cobbles						
-								
2	Infilt	ration Rate at e	el. 653 = 3 in/h	nr	Kv =0.31 in/h	r		
-								
3								
-								
4	Brown coa	arse to fine SAN	ND, some mot	ttled CI	ayey Silt, little coars	e to fine	Mediu	im Dense
	Gravel	, with Cobbles a	and occasiona	al Bould	ders			
5		TEST	F PIT COMPL	ETED	AT 5± FEET			
_								
6								
—								
7								
8								
_								
9—								
10								1
10								
11								
12								
13								
14								

PRO	JECT NO.	9999	PROJECT	TEST PIT	NO.	TP-AA2					
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	655±	INSPECT	ED BY	RR/JT			
WAT	ER OBSE	RVATION	No	t Enco	untered	DATE EX	CAVATED	1/8/2020			
DEPTH FT.		DESC	RIPTION / SO	IL CLAS	SSIFICATION		RELATIVE	DENSITY OR			
0	4± Inches	Topsoil									
-	Brown Cla	ayey Silt, and co	parse to fine S	Sand, tr	ace Gravel,		Med	ium Stiff			
1	with occas	sional Cobbles									
-											
2	Infilt	ration Rate at e	in/hr								
-											
3											
-											
4											
-	Brown coa	arse to fine SAN	Gravel	Mediu	m Dense						
5	- with occasional Cobbles and Boulders										
_		TEST PIT COMPLETED AT 5± FEET									
6											
_											
/											
°—											
9											
10											
10											
11											
12											
13											
14											
					5	SESI CONS	ULTING F	NGINEERS			

PRO	JECT NO.	9999	TEST PIT	NO.	TP-A2-1				
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	655±	INSPECT	ED BY	RR/JT	
WAT	ER OBSE	RVATION	No	t Enco	untered	DATE EX	CAVATED	2/14/2020	
DEPTH FT.		DESC	RIPTION / SO	IL CLA	SSIFICATION		RELATIVE	DENSITY OR	
0	4± Inches	Topsoil							
-	Brown Cla	ayey Silt, and co	parse to fine S	and, tr	ace Gravel,		Med	ium Stiff	
1	with occas	sional Cobbles							
-									
2	Infilt	ration Rate at e	l. 653 = 14 in/	'hr	Kv = 2.0 in/h	ır			
-									
3_									
	Prown cor	to fine CAN		0:14	1111 · · · ·	-			
5	Brown coa	arse to the SAN	D, some Clay	yey Silt	, little coarse to fine	Gravel	Mediu	m Dense	
_	- With OC	TEST			AT 5+ EEET				
6		1201			AT SEFEET				
7									
8									
-									
9									
-									
10									
_									
11_									
12									
12-									
13									
14									

PRO	JECT NO.	9999	TEST PIT	NO.	TP-A2-2			
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	655±	INSPECT	ED BY	RR/JT
WAT	ER OBSE	RVATION	No	ot Enco	untered	DATE EX	CAVATED	2/14/2020
DEPTH FT.		DESC	RIPTION / SO	IL CLAS	SSIFICATION		RELATIVE	DENSITY OR
0	4± Inches	Topsoil						
-	Brown Cla	ayey Silt, and co		Med	ium Stiff			
1	with occas	sional Cobbles						
-								
2	Infilt	ration Rate at e	l. 653 = 20 in	/hr	Kv = 4.1 in/h	nr		
-								
3								
—								
4								
_	Brown coa	arse to fine SAN	ND, some Cla	yey Silt	, little coarse to fine	Gravel	Medium Dense	
5	with oc	casional Cobbl						
_		TEST	PIT COMPL	ETED	AT 5± FEET			
6								
/								
0								
0								
9								
10								
_								
11								
_								
12								
_								
13								
_								
14								

PRO	JECT NO.	9999	TEST PIT	NO.	TP-AA3			
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	655±	INSPECT	ED BY	RR/JT
WAT	ER OBSE	RVATION	S	eepage	e @ 4'±	DATE EX	CAVATED	1/8/2020
DEPTH FT.		DESC	RIPTION / SO	IL CLA	SSIFICATION		RELATIVE	DENSITY OR
0	3± Inches	Topsoil						
-	Light brow	vn Clayey Silt, a	ind coarse to	fine Sa	nd, trace Gravel		Med	ium Stiff
1	with occas	sional Cobbles						
-								
2	Infilt	ration Rate at e	l. 653 =		Kv = 8.3 in/r	nr		
-								
3								
-								
4				-				
_	Brown mo	ttled Clayey SII	T, some coar	se to fi	ne Sand, little medi	um to fine	:	Stiff
5_	1 Gravel,	with frequent (
		TEST	PIT COMPLI	ETED	AT 5± FEET			
0								
7								
8								
9								
_								
10								
_								
11								
_								
12								
—								
13								
-								
14								

PRO	JECT NO.	9999	TEST PIT	NO.	TP-AA4			
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	656±	INSPECT	ED BY	RR/JT
WAT	ER OBSE	RVATION	Seepage	e@4'±	, GW @ 4.8'±	DATE EX	CAVATED	1/8/2020
DEPTH FT.		DESC	RIPTION / SO	IL CLA	SSIFICATION		RELATIVE	DENSITY OR
0	3± Inches	Topsoil						
-	Light brow	n Clayey Silt, a	ind coarse to	fine Sa	nd, trace Gravel,		Med	ium Stiff
1	with occas	sional Cobbles						
_								
2								
3	1.64							
	Infilt	ration Rate at e	n/hr					
4								
_	Brown mo	ttled coarse to	fine SAND, so	me Cl	avev Silt, little medi	um to fine	Lo	ose to
5	Gravel, wit	th frequent cob	bles and occa	isional	boulders		Loose to Medium Dense	
6		TEST	PIT COMPLE	TED A	T 5.5± FEET			
_								
/								
0								
9								
_								
10								
_								
11								
-								
12								
-								
13								
14								

PRO	JECT NO.	9999	PROJECT	Prop	. Logistics Center	TEST PIT	NO.	TP-A4-1		
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	660±	INSPECT	ED BY	RR/JT		
WAT	ER OBSE	RVATION	Se	eepage	e at 5.5'	DATE EX	CAVATED	2/14/2020		
DEPTH FT.		DESC	RIPTION / SO	IL CLA	SSIFICATION		RELATIVE DENSITY C CONSISTENCY			
0	4± Inches	Topsoil								
-	Brown Cla	ayey Silt, and co	parse to fine S	Sand, ti	race Gravel,		Med	ium Stiff		
1	with occas	sional Cobbles								
-										
2-										
3										
4										
_										
5										
_	Brown coa	arse to fine SAN	D, some Clay	yey Sili	t, little coarse to fi	ne Gravel	Medium Dense			
6	with oc	casional Cobbl	es and Boulde	ers						
_										
7										
_										
8										
		TEOT		ETED	ATCLEET					
10		TEST		EIED	AIDIFEEI					
_										
11										
_										
12										
—										
13										
-										
14										

PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	TP-A4-2			
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	660±	INSPECT	ED BY	RR/JT			
WAT	TER OBSE	RVATION	Se	epage	at 5.5'	DATE EX	CAVATED	2/14/2020			
DEPTH FT.		DESC	RIPTION / SO	IL CLA	SSIFICATION		RELATIVE DENSITY CONSISTENCY				
0	4± Inches	Topsoil									
	Brown Cla	yey Silt, and co		Med	ium Stiff						
1-	with occas	sional Cobbles									
2_											
3											
_											
4											
-											
5											
-	Brown coa	rse to fine SAN	ID, some Clay	/ey Silt	, little coarse to fine	e Gravel	Medium Dense				
6	with oc	casional Cobbl	es and Boulde	ers							
7											
8											
_											
9											
—		TEST	PIT COMPLE	ETED A	AT 6± FEET						
10											
_											
11											
12											
13											
_											
14											

PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Cente	er TEST PI	ΓNO.	TP-A4-3			
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	664±	INSPECT	ED BY	RR/JT			
WAT	FER OBSE	RVATION	Se	epage	at 6.5'	DATE EX	CAVATED	2/14/2020			
DEPTH FT.		DESC	RIPTION / SO	IL CLA	SSIFICATION		RELATIVE	E DENSITY OR BISTENCY			
0	4± Inches	Topsoil									
-	Brown Cla	ayey Silt, and co		Med	lium Stiff						
1	with occas	sional Cobbles									
2_											
_											
3											
_											
4											
_											
5											
6											
_	Brown coa	urse to fine SAN	ID some Clav	vev Silt	little coarse to t	fine Gravel	Madium Danas				
7	with oc	casional Cobble	es and Boulde	rs		line Graver	Media	in Dense			
_											
8											
-											
9											
10		TEST	PIT COMPLE	ETED A	AT 6± FEET						
11											
_											
12											
_											
13											
14											

PRO	JECT NO.	9999	TEST PIT	NO.	TP-AA5					
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	656±	INSPECT	ED BY	RR/JT		
WAT	ER OBSE	RVATION	Seepa	ge at 4	<u>+</u> '; GW @5'	DATE EX	CAVATED	1/8/2020		
DEPTH FT.		DESC	RIPTION / SO	IL CLA	SSIFICATION		RELATIVE	E DENSITY OR BISTENCY		
0	4± Inches	Topsoil								
	Light brow	Med	ium Stiff							
1	with occas	sional Cobbles								
-										
2										
-										
3	Infilt	ration Rate at e	l. 653 = 13.5 i	n/hr	Kv = 1.93 in/ł	۱r				
-										
4										
_	Brown	mottled clayey	SILT, some c	oarse	to fine Sand, little fir	e Gravel	Loose to			
5_	with fre	equent cobbles	and occasion	al boul	ders		Mediu	m Dense		
0		TEST	PIT COMPLE	TED A	T 5.5± FEET					
7										
8										
_										
9										
_										
10										
_										
11										
_										
12										
-										
13										
-										
14										

PROJECT NO. 9999 PROJECT Prop. Logistics Center TEST PIT	NO.	TP AA6
LOCATION SEE FIGURE 1 APPROX. ELEV. 658' ± INSPECT	ED BY	RR
WATER OBSERVATION Mottled @ 6.5'± DATE EX	CAVATED	06.13.2020
DEPTH FT. DESCRIPTION / SOIL CLASSIFICATION	RELATIVE	DENSITY OR
0 — 6"± Topsoil		
1 Tan-brown coarse to fine Sand, some coarse to fine Gravel, little Silt,	L	oose to
	М	edium
		ense
4 — Tan-brown coarse to fine Sand, some coarse to fine Gravel, some Silt,		
with occasional cobbles 5— Infiltration Rate: Ky=1.4 in/br		
		ense
6		
TEST PIT COMPLETED @ 7'±		
8		
9		
10		
12		
14		

PRO	JECT NO.	9999	PROJECT	Prop.	Logistics Center	TEST PIT	NO.	ΤΡ ΑΑ7	
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	656' ±	INSPECT	ED BY	RR	
WAT	ER OBSE	RVATION		NE		DATE EX	CAVATED	06.13.2020	
DEPTH FT.		DESC	RIPTION / SC		SSIFICATION		RELATIVE DENSITY OR CONSISTENCY		
0	6"± Topso	bil							
1	Tan-brown with occas	n coarse to fine sional cobbles	Medium Dense						
3	Infiltration	Rate: Kv=1.2 i			to				
4							C	ense	
5									
		Т	EST PIT CON	/IPLETE	ED @ 5'±				
• <u> </u>									
7									
8									
9									
10									
12									
13									

C		0					Job:	9999	Boring:	B-312-1	0	Client	Putnam Seaburty Partners, LP		
0			B	ORIN	IG L	OG	Project:	Northeas	t Interstate I	ogistics Center	Obs	erver:	RR/JT		
CON	SULT	ING		•			Location:		Southeast	NY	Elev	ation	on: 547'±		
Date Started	Inter	ne 4, 2020	Date C	ompleted:	lune	4 2020	Boring Locat	ion Offset:				2'+ NF			
Contractor:	Genera	Borings, IN		vne of Rig	June	ΔTV	Weather [.]			Sunny	Temperature: 75F				
Driller	Genera	John		Helper			Rotary Bit Di	ameter:		Junny		10			
Casing Dia ·		Inche	s Cas	ing Denth		Feet	Auger Diame	ter:	0D·	6 In	hes	١D٠	4 Inches		
Drilling Mud	l I Itilizad		None		Water				Bentonite		vert		Fz Mud Other		
Drining Wide	s otimzed	nlit Spoon 9	ampler.		2-incl	h Diameter	Quickgei			3-inch Diam	eter				
CAMPLIN		I-tube Samr	ampier.		Piston	in Diameter		Shelby			her				
EQUIPME	ENT C	ore Barrel	, iciii					Core Bit							
(type and	size)	ampler Han	nmer:		External	Anvil		Mobile Safe	tv	✓ Au	to		Mechanical Trip		
	v	Veight:			lbs.		Drop Height:		Inches						
		0				WATER LEV	EL OBSERVAT	IONS							
Date		Time	D	epth of Ho	le	Depth	of Casing	Depth t	o Water			R	emarks		
06.05.20	20	8:05 AM		13'±		1	0'±	r	IE						
		SAMPLE	•							2	ta				
Number	Inter	val Bl	ows/6"	N- Value			SAMPLE D	ESCRIPTIC	N		tra	Rec	REMARKS		
		-								6	N O				
					Augered	to 5'±					_		10.4' = Top of casing to bottom		
													of hole		
										5					
S-1	5	6	7	18	Brown co	arse to fine S	and and Clave	v Silt little m	edium to fine	Gravel					
51	7		,	10	Diowirco		und, und eldye	y one, near m			_	-			
	/	11	11		_						_		-		
S-2	7	8	10	22	Same as a	above							-		
	9	12	12												
S-3	9	3	5	12	Brown Si	lt, and coarse	to fine Sand, li	ttle medium	to fine Gravel	1	D				
	11	7	9		Unfactor	ed Infiltration	Rate (EL 353'±) = 0.7"/hr							
S-4	11	3	6	13	Same as a	above									
	13	7	10												
							BORING CON	лрі FTFD @ 1	 ?'+		_				
										1	-		-		
										-	<u>,</u>		-		
											_		-		
			_										-		
										2	D	1			
	1											F	1		
	1														
	+										-	⊢			
				+							_	⊢	-		
			_							2	5	┣—	-		
	<u> </u>		_								_	<u> </u>			
												1			
										3	5]		
			- 1	Page 1 of	1								Figure No.:		
The subsurfac	e informa	ation shown I	nereon was	obatined for	- the desig	and estimation	ting purposes f	for our client	It is made ava	ilable to authori:	ed user	s only	that they may have access to the		
same informa	tion avail	able to our c	ient. It is pr	esented in g	ood faith,	, but it is not i	ntended as a si	ubstitute for	investigations	, interpretations	or jeud	gemen	t of such authorized users.		
Information o	n the log	s should not l	be relied up	on without	the geoted	chnical engine	ers recommen	dations conta	ined in the re	port from which	these lo	gs we	re extracted.		
rp: Pocket Pei	netromet	er; wOH: We Approx	ingnt of Ham timate Chan	mer; wor: ge in Strata:	vveignt of	коа			Inferred Char	nge in Strata: -					
Soil descriptio	ons repres	ent a field id	entification	after D.M. E	urmister	unless otherw	vise noted.								

C		C	2					Job:	9999	Boring:	B-312-2		С	lient:	Putnam Seaburty Partners, LP
S		0		B	ORIN	IG L	OG	Project:	Northeas	t Interstate I	ogistics Cent	ter	Obse	erver	RR/JT
CON	ISUL	TINC		-	•			Location:		Southeast.	NY		Eleva	tion	552'±
Date Started:	GINE	une 4, 2	2020	Date Co	ompleted:	June	4. 2020	Boring Locati	ion Offset:	,			2	'± NF	
Contractor:	Gener	al Bori	ngs, INC.		ne of Rig	June	ΔTV	Weather:			Sunny		_	Te	mperature: 75E
Driller	Gene	Iohn	igo, iite.	.,	Helner			Rotary Bit Di	ameter:		Junny			10	
Casing Dia.			Inches	Casi	ng Depth:		Feet	Auger Diame	ter	٥D	6	Inche	5	ID:	4 Inches
Drilling Mud	l Utilize	۰d۰	enes	None		Water				Bentonite		Reve	rt		Fz Mud Other
Drining inter		Solit S	poon Sar	noler:		2-incl	h Diameter	QuickBei	_		3-inch Dia	amete	er		
SAMPLIN	NG	U-tube	e Sample	r:		Piston			Shelby			Othe	r		
EQUIPME	ENT	Core B	arrel:						Core Bit:						
(type and	size)	Sampl	er Hamm	ner:		External	Anvil		Mobile Safe	ty	\checkmark	Auto			Mechanical Trip
		Weigh	it:			lbs.		Drop Height:		Inches					
							WATER LEV	EL OBSERVAT	IONS						
Date		Т	ime	D	epth of Ho	le	Depth	of Casing	Depth t	o Water				R	emarks
06.05.20	20	8:1	5 AM		11'±		1	0'±	1	IE					
		SAN	MPLE							•		oth	ıta	J	
Number	Inte	rval	Blow	/s/6"	N- Value			SAMPLE D	ESCRIPTIC	N		Dep	Stre	Re	REMARKS
						Augered	to 5'+					-	0,	-	9 7' = Top of casing to bottom
						Mugereu									
															ornole
															-
												5			
S-1	,	5	5	9	20	Brown Si	lt, and coarse	to fine Sand, tr	ace medium	to fine Gravel					
	7	7	11	13											
S-2	-	7	8	11	23	No recov	ery (gravel in	tip)							
	ç)	12	12											
s_3		3	12	13	28	Grav-bro	wn coarse to f	fine Sand and	Silt little mer	lium to fine Gi	avel	10			-
55	1	1	12	17	20	Unfactor	ad Infiltration		-1.1"/br			10			
	1	1	15	17					/ = 1.1 ////						-
								BORING CON	1PLETED @ 1	Ľ±					
															-
												15			
	1]
	1											20			1
	1														
															4
	+														
														<u> </u>	4
															4
	<u> </u>											25			
	1														
		_ [_]		L	
	1											30			
	1				Page 1 of	1									Figure No.:
The subsurfac	e inform	nation s	hown her	eon was o	batined for	the desig	and estimation	ting purposes f	or our client	It is made ava	ilable to auth	orized	user	sonly	that they may have access to the
same informa	tion ava	ilable t	o our clier	nt. It is pre	esented in g	ood faith,	but it is not i	ntended as a su	ubstitute for	investigations	interpretatio	ns or	jeudg	emen	t of such authorized users.
Information o	n the lo	gs shou	ld not be	relied upo	on without I	he geoted	chnical engine FRod	ers recommen	dations conta	ined in the re	port from whi	ch the	ese log	gs we	re extracted.
r p. rocket Pel	neuonie		Approxim	ate Chang	ge in Strata:	••eigi it 01	nou			Inferred Char	ige in Strata:				
Soil descriptio	ons repre	esent a	field iden	tification a	after D.M. B	urmister	unless otherw	vise noted.							

C		1					Job:	9999	Boring:	B-312-3	c	lient:	Putnam Seaburty Partners, LP
0			В	ORIN	IG L	OG	Project:	Northeas	t Interstate L	ogistics Center	Obse	erver:	RR/JT
CON	SULTI	NG		•••••			Location:		Southeast,	NY	Eleva	ation:	556'±
Date Started:	June	4, 2020	Date Co	ompleted:	June	4, 2020	Boring Locat	ion Offset:				N/A	
Contractor:	General I	Borings, INC.	Ту	/pe of Rig:		ATV	Weather:		s	Sunny		Ter	nperature: 75F
Driller:	L	ohn		Helper:			Rotary Bit Di	ameter:					
Casing Dia.:		Inches	Casi	ng Depth:		Feet	Auger Diame	eter:	OD:	6 Inch	es	ID:	4 Inches
Drilling Mud	Utilized:	~	None		Water		Quickgel		Bentonite	Reve	ert	[Ez Mud 🛛 Other
	Sp	lit Spoon Sar	mpler:	\checkmark	2-incl	h Diameter	1			3-inch Diame	ter		
SAMPLIN	IG U-1	tube Sample	r:		Piston			Shelby		Oth	er		
EQUIPME (type and s	NT Co	re Barrel:											
(0) p 0 and 1	Sal	mpler Hamm	ner:		External	Anvil		Mobile Safe	Inchos	⊡ Auto	0		Mechanical Trip
		eight.			IDS.	WATER LEVEL OBSERVATIONS							
Date		Time	D	epth of Ho	le	Depth	of Casing	Depth t	o Water			R	emarks
06.05.20	20	8:30AM		13'±		1	0'±	1	IE				
		SAMPLE								th	Ita	J	
Number	Interva	l Blow	vs/6"	N- Value			SAMPLE D	DESCRIPTIC	N	Dep	Stra	Re	REMARKS
					Augered	to 5'±							10.4' = Top of casing to bottom
					U						-		of hole
											-		
											-		
										_	-		
										. 5	-		
S-1	5	3	3	7	Brown co	arse to fine S	and, some Silt,	trace mediur	n to fine Grave		_		
	7	4	6										
S-2	7	4	7	15	Brown co	arse to fine S	and, and Silt, ti	race medium	to fine Gravel		_		
	9	8	12								_		
S-3	9	8	8	17	Brown co	arse to fine S	and, some coar	rse to fine Gr	avel, some Silt	10			
	11	9	11		Unfactor	ed Infiltration	Rate (EL 545'±) = 1.5"/hr					
S-4	11	14	14	26	Brown Si	lt, some coars	e to fine Sand,	trace mediur	n to fine Grave	el			
	13	12	16										
							BORING CON	/IPLETED @ 1	3'±				
										15			
										20			
											1		
L													
ļ										25			
										25	1		
											1		
											-		
											-		
					4					30			Sigura No. :
The ends	- taf - · · ·	an ah :		rage 1 of	1				14 (a. a)	1	ما ، ا		Figure No.:
same informat	e intormati tion availat	on snown her de to our clier	reon was o nt. It is pre	poatined for esented in g	r the desig ood faith,	but it is not i	ung purposes f ntended as a si	or our client. ubstitute for	it is made avai investigations,	inable to authorize interpretations o	a user: r jeudg	s only emen	that they may have access to the to f such authorized users.
Information o	n the logs s	hould not be	relied upo	on without I	the geoteo	chnical engine	ers recommen	dations conta	ined in the rep	port from which th	nese lo	gs wei	e extracted.
Pp: Pocket Per	ietrometer	; WOH: Weigl Approxim	nt of Ham nate Chan	mer; WOR: ge in Strata:	vveight of	коа			Inferred Chan	ge in Strata:			
Soil descriptio	ns represei	nt a field iden	tification	after D.M. E	urmister	unless otherw	vise noted.						

C		C						Job:	9999	Boring:	B-312	-4	С	lient:	Putnar	n Seab	urty Partners	s, LP
0	-	0		B	ORIN	IG L	OG	Project:	Northeas	t Interstate I	ogistics Ce	nter	Obse	erver:		R	R/JT	
CON	GINE	FING						Location:		Southeast	, NY		Eleva	tion:	on: 570.0±			
Date Started:	u Ju	ine 4, 2	020	Date Co	ompleted:	June	4, 2020	Boring Locat	ion Offset:				4	'± SE				
Contractor:	Genera	al Borin	ngs, INC.	Ту	pe of Rig:		ATV	Weather:		:	Sunny		Te		nperatur	e:	75F	
Driller:		John			Helper:			Rotary Bit Di	iameter:									
Casing Dia.:			Inches	Casi	ng Depth:		Feet	Auger Diame	eter:	OD:	6	Inche	es	ID:		4	Inches	
Drilling Muc	d Utilize	d:	\checkmark	None		Water		Quickgel		Bentonite		Reve	rt		Ez	Mud	Othe	er
	:	Split Sp	poon San	npler:		2-incl	n Diameter				3-inch D	Diamet	er					
SAMPLI		U-tube	Sample	r:		Piston			Shelby			Othe	r					
(type and	size)	Core Ba	arrel:			Extornal	Apuil		Core Bit:	+1/		Auto				Ma		
		Sample Weight	er Hamm t:	ier:		lhs	AIIVII	Dron Height:	WODIE Sale	Inches		Auto				wied		
					WATER LEVEL OBSERVATIONS													
Date		Ti	me	D	epth of Ho	le	Depth	of Casing	Depth t	o Water				R	emarks			
06.05.20	020	8:00	D AM		24'±		2	0'±	1	IE								
												_						
		SAN	IPLE									oth	ata	ų.				
Number	Inter	rval	Blow	/s/6"	N- Value SAMPLE DESCRIPTION								алис					
						Augered	to 6'±								23.2' = T	op of ca	sing to botton	n
															of hole			
	-	-+		<u> </u>														
	+	-+																
												5						
6.1	6		6		10	light hro	un conrecto to	fine Cand com	a Cilt littla m	adium ta fina	Craval	_						
5-1	0		0	12	19	LIGHT-DIO	will coarse to	ine sanu, som	e siit, iittie iii	edium to nne	Graver							
	8		12	12						<u> </u>	<u></u>	_						
5-2	8		6	10	22	віаск-gra	y coarse to fir	ie Sand, some	coarse to fine	Gravel, trace	Siit,							
	10)	12	14		with cobl	oles					10						
S-3	10)	6	6	18	Brown m	edium to fine	Sand, some Sil	lt, trace Grave	el (moist)								
	12	2	12	12														
S-4	12	2	6	12	22	Same as a	above											
	14	1	10	10														
S-5	14	1	8	10	20	Gray-bro	wn medium to	o fine Sand, soi	me Silt, trace	Gravel		15						
	16	5	10	17														
S-6	16	5	9	10	22	Gray Clay	ey Silt, some	coarse to fine S	Sand, trace G	ravel								
	18	3	12	18														
S-7	18	3	8	12	27	No recov	ery											
	20)	15	19								20						
S-8	20	כ	10	13	31	Gray Clay	ey Silt, and co	oarse to fine Sa	and, trace Gra	vel								
	22	2	18	26		Unfactor	ed Infiltration	Rate (EL 548'±) = 1.3"/hr									
S-9	22	2	24	26	60	Gray coa	se to fine San	id, some Claye	y Silt, trace G	ravel								
	24	1	34	36														
								BORING CON	APLETED @ 2	4'±		25						
		\rightarrow										30			1			
					Page 1 of	1									Figure	No.:		
The subsurfac	ce inform	ation sl	hown her	eon was c	batined for	the desig	n and estima	ting purposes f	for our client.	It is made ava	ilable to aut	horized	dusers	only	- that they	may ha	ve access to th	he
same informa	ation avai	lable to	our clier	nt. It is pre	esented in g	ood faith,	but it is not i	ntended as a si	ubstitute for	investigations	, interpretat	ions or	jeudg	emen	t of such a	authoriz	ed users.	
Pp: Pocket Pe	enetrome	ter; WC	DH: Weigh	nt of Hami	mer; WOR:	Weight of	Rod	.cra recommen		inieu in the fe	μοις ποιπ W	men th	cae IU	53 Wer	CEAUDU	.u.		
Soil descriptio	one repro	Kent - f	Approxim	ate Chang	ge in Strata:	urmistor	inless other	vise noted		Inferred Chai	nge in Strata	:						

PRO	JECT NO.	9999	TEST PIT	NO.	TP 301A					
LOC	ATION	SEE FIGURE 1	APPROX. E	LEV.	556' ±	INSPECT	ED BY	RR		
WAT	ER OBSE	RVATION		NE	<u> </u>	DATE EX	CAVATED	06.04.2020		
DEPTH FT.		DESC	RIPTION / SO		SSIFICATION		RELATIVE DENSITY O CONSISTENCY			
0	Fill: Black	coarse to fine	Sand, little Sil	t, trace	Gravel		Loose			
	Tan-brow	n coarse to fine	м	edium						
2			с	ense						
3								to		
4								ense		
5										
		Т	EST PIT CON	/IPLETE	ED @ 5'±					
• <u> </u>										
7										
8										
9										
10										
11										
12										
13										
14										
PROJECT NO.		9999	PROJECT Prop. Logistics Center TEST P		r TEST PIT	NO.	TP-B312-5			
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LOCATION		SEE FIGURE 1	APPROX. ELEV. 525' ± INSPEC		INSPECT	ED BY	RR			
WATER OBSERVATION		RVATION	Seepage @ 1.5' ±		DATE EX	DATE EXCAVATED				
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION							RELATIVE DENSITY OR CONSISTENCY		
0	6"± Topso	bil								
1	Tan-brown with frequ	n coarse to fine ent cobbles; sli	Medium Dense							
2								to		
3 <u> </u>								ense		
5	Tan-browr	n coarse to fine								
	with occasional cobbles; cobbles are highly weathered rock							Dense		
6								to		
7								Very		
								ense		
8										
	TEST PIT COMPLETED @ 8'±									
10										
11										
12										
13										
14										

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PROJECT NO.		9999	PROJECT	Prop	. Logistics Center	TEST PIT	NO.	TP-B312-6
LOCATION		SEE FIGURE 1	APPROX. ELEV. 520' ± INSPEC		INSPECT	ED BY	RR	
WATER OBSERVATIO		RVATION	Seepage @ 1.5' ±			DATE EX	DATE EXCAVATED	
DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION						RELATIVE DENSITY OR CONSISTENCY	
0	6"± Topso	il						
	Tan-brown with frequ	Medium Dense						
2								to
3 <u> </u>							C)ense
5		 TE	ST PIT COM	PLETE	ED @ 4.5'±			
6								
7								
8								
9								
10								
11								
 12								
 13								
14								

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