August 15, 2025

Mr. Angelo Melisi
Fountain Street Associates, LLC
8 Huntington Street, Suite 171
Shelton, CT 06484

Re: Preliminary Geotechnical Engineering Report
Proposed Residential Development
804 Fountain Street, Woodbridge, Connecticut
Solli Project No.: 25111001

Dear Angelo,

Solli Engineering, LLC (Solli) is pleased to submit our preliminary geotechnical engineering report for the proposed residential development located at 804 Fountain Street in Woodbridge, Connecticut. Refer to Figure 1, Locus Plan, in Appendix 1 for the general location of the project.

We understand the project is in the early stages of development, and as such, we have performed a limited geotechnical study to preliminary characterize the subsurface conditions at the site, identify key geotechnical issues, and provide preliminary geotechnical design and construction recommendations for the project.

Our recommendations are based in part on guidance from the 2022 Connecticut State Building Code, which includes the 2021 International Building Code (IBC) with amendments. Design recommendations are based on Allowable Stress Design (ASD) Methods.

Purpose and Scope

Solli observed subsurface explorations and performed a preliminary geotechnical engineering evaluation for the proposed residential development. Our services included characterizing the subsurface conditions at the site, performing preliminary geotechnical engineering analyses, and preparing a preliminary geotechnical engineering report that includes preliminary geotechnical design and construction recommendation for the project.

Site Description and Proposed Construction

The site consists of a 5.71-acre parcel that is lightly wooded but contains a dilapidated and abandoned structure from a previous development. The site is bordered by Fountain Street to the north, Wilber Cross Parkway (CT Route 15) to the east and south, and Bishops Pond to the west. Site grades generally slope upwards from east to west from approximately Elevation (El.) 260 to El. 360, respectively.

It is our understanding that the project includes the development of this site with a new building, associated paved parking and driving aisles, utility infrastructure, site retaining walls, and other landscaping improvements. The proposed building will be a below-grade (i.e., basement), rectangular-shaped, four-story structure with a footprint of approximately 23,000 square feet with a finished basement floor at El. 293.6 and finished floor at El. 304.1. Due to the existing topography of the site, we believe there will be significant cuts and fills to reach final grades. We expect raise-in-grades up to approximately 14 feet and cuts up to approximately 51.1 feet. To achieve proposed grades, there will be one site retaining

wall and one rock slope planned that will have maximum heights of 12 and 51.1 feet, respectively. Building foundation loads were not available for the preparation of this report.

Review of Geologic Information

According to the United State Geologic Survey (USGS) publication titled "Surficial Geologic Map of the New Haven and Woodmont Quadrangles, Connecticut (1:24,000 scale) by Richard F. Flint (1960-1963) the surficial material is mapped as till with areas of bedrock. The till is described as "compact, nonsorted sediment deposited by glacier ice. Includes small bodies of stratified sediment." The bedrock is described as "individual exposures of bedrock."

According to USGS publication titled "Bedrock Geological Map of the Paleozoic Rocks of Western New Haven Quadrangle, Connecticut (1:24,000 scale) by Ryan T. Deasy, et al (2017) the bedrock is mapped as the Maltby Lakes Complex, which is described as "gray-green to green, fine-grained greenschist and schist or phyllite."

Subsurface Explorations

Solli observed and documented 20 test pits that were excavated by David M. Koch Landscaping, LLC of Middlebury, Connecticut on July 21 and 22, 2025. The approximate locations of the test pits are depicted on Figure 2 – Subsurface Exploration Location Plan, in Appendix 1 and logs of the test pits are included in Appendix 2.

The test pit locations were determined in the field with a handheld GPS and the ground surface elevation at each was estimated from available survey data. The locations of the test pits and their elevations should be considered approximate.

The test pits were performed to explore the subsurface conditions in the development area. The test pits were excavated between approximately ±2.5 and ±11.0 below existing grades with a Caterpillar 304E2 Mini-Excavator with a bucket capacity of approximately 0.5 cubic yards and reach of about 15 feet.

Groundwater levels were observed and measured from evidence from the sidewalls of the test pits.

Subsurface Conditions

The subsurface profile, as inferred from the test pit data, generally consists of topsoil, over subsoil or fill, over sand (where encountered), over inferred bedrock (where encountered) to the depths explored. More detailed descriptions of the subsurface materials encountered are provided below:

Topsoil was encountered at the surface of each test pit and is six to 12 inches thick. The topsoil generally consists of dark brown, silt, trace fine to coarse sand, trace roots.

Subsoil was encountered below the topsoil in Test Pits TP-1 through TP-11 and TP-15 through TP-19 and extends between approximately ±3.0 to ±4.5 feet below existing grades. The subsoil generally consists of brown, fine to coarse sand, little to some fine to coarse gravel, some silt, trace roots, with cobbles and boulders.

Fill was encountered below the topsoil in Test Pits TP-12 through TP-14 and TP-20 that extends approximately ±2.5 to ±4.5 feet below existing grades. The fill generally consists of reddish brown to gray, fine to coarse sand, little fine to coarse gravel, trace to some silt, trace roots, trace debris (e.g., bricks, concrete), with cobbles and boulders.

Sand was encountered below the subsoil or fill in Test Pits TP-2, TP-7 through TP-11, and TP-13 through TP-20 and is ±0.5 to at least ±8.0 feet thick. The sand generally consists of gray, fine to coarse sand, little fine to coarse gravel, trace silt, trace roots, with cobbles.

Bedrock was inferred below the subsoil, fill, or sand in each test pit except Test Pits TP-9, TP-10, TP-14 through TP-16, TP-18, and TP-20 between ±2.5 and ±8.0 feet below existing grades. Inference of bedrock was based on refusal of the exploration equipment.

Groundwater was encountered in TP-16, TP-18, and TP-20 between ±6.5 and ±10 feet below existing grades or between El. 265.5 and El. 280. It should be noted that groundwater levels will vary depending on factors such as temperature, season, precipitation, drought, construction activity, and other conditions, which may be different from those at the time of these observations.

Engineering Implications of Subsurface Conditions

We preliminary recommend the proposed building be supported by foundations that develop their capacity in the natural materials below the surficial topsoil and underlying subsoil or fill as they likely contain constituents that will result in unacceptable settlements.

We anticipate that conventional shallow foundations and slab-on-grade construction will be sufficient to support the proposed building. Shallow foundations should bear on undisturbed sand, sound bedrock, or compacted granular fill (CGF) over these materials.

Based on the encountered shallow bedrock and the proposed construction for the project, we anticipate that massive rock removal will be needed to reach final grades. In the locations of our test pits, we expect 45.5 feet of rock cut will be required. We expect rock removal to be completed with conventional blasting and more precise removal completed using a hoe ram.

The scope of this due diligence is limited, and a final design geotechnical study should be performed with the development of the design. The final design should include additional explorations, especially in areas of rock cuts to further define the nature and quality of the bedrock. Below are our initial geotechnical recommendations based on this limited study.

Preliminary Geotechnical Recommendations

Foundations

We preliminary recommend supporting the proposed building with conventional spread footing foundations bearing on a prepared subgrade of undisturbed sand, sound bedrock, or CGF over these materials. Where CGF is used beneath the proposed footings, we recommend that it be placed 1 foot beyond the edge of the footings and at a one horizontal to one vertical (1H:1V) slope down and away from the footings to the top of the recommended bearing stratum.

We preliminary recommend a maximum net allowable bearing pressure of four kips per square foot (e.g., 2 tons per square foot) for footings bearing on the prepared subgrade described above. We anticipate that the footings could experience up to to approximately 1 inch of total settlement and up to approximately ½ inch of differential settlement. Settlements should occur as the loads are applied and completed near the end of construction. We recommend a maximum coefficient of friction of 0.35 between footings and the recommended bearing strata.

Exterior footings bearing on sand or CGF should be constructed at a minimum depth of 42 inches below final grades for frost protection. Exterior footings bearing on sound bedrock should be constructed at least 12 inches below final grades. For interior footings, a minimum distance of six inches should be maintained between the bottom of the concrete floor slab and the top of the footings. The minimum isolated footing size should be 24 inches, and the minimum wall footing width should be 12 inches.

Perimeter drains should be installed flush with the bottom of the footings and should be discharged by gravity or pumped to a convenient and appropriate location. The foundation drains should consist of 4-inch-diameter perforated polyvinyl chloride pipe, surrounded by at least 6 inches of crushed stone, wrapped in nonwoven filter fabric. We also recommend that roof drains and leaders be designed to divert water away from foundations.

Floor Slabs

We recommend the lowest building floor slab (e.g., basement level) consist of slab-on-grade construction. We recommend placing the concrete floor slab over a minimum 6-inch-thick base course layer of compacted sand and gravel over proof compacted existing fill or CGF over natural sand. See below for recommendations for proof compacting existing fill for slab-on-grade construction. The subgrade modulus for the recommended subgrade and base course is 150 pounds per cubic inch. Slab damp proofing should be installed between the slab and base course that should consist of not less than 6-mil polyethylene with joints lapped at least 6 inches.

Lateral Earth Pressures

For walls that are free to rotate (e.g., site retaining walls), we recommend they be designed to resist active lateral earth pressures based on an equivalent fluid pressure of 38*H pounds per square foot (psf) multiplied by the wall height (H). For walls that are restrained against rotation (e.g., basement walls), we recommend they be designed to resist at-rest earth pressures based on an equivalent fluid pressure of 58*H psf multiplied by the wall height. Where the calculated earth pressure is less than 200 psf, the minimum earth pressure value should be increased to 200 psf to account for stresses created by compaction near the walls. Walls must be designed to also resist other live and/or dead loads as appropriate. These pressures do not include hydrostatic pressures, and we recommend that free draining backfill materials be used and wall drainage be provided. The wall drainage should consist of a one-foot-thick layer of crushed stone immediately behind the wall face that is wrapped in filter fabric. We do not recommend the use of passive earth pressures.

Rock Slopes

Based on proposed grades and encountered bedrock depths, we expect that rock slopes will be required for the project. The stability of the rock cut is controlled by the orientation of the joints relative to the orientation of the proposed cut face. Although we encountered bedrock throughout the majority of the site, our subsurface investigations did not identify necessary rock properties; therefore, we preliminary recommend an inclination of 1H:4V or shallower to limit potential rockfall from the proposed rock cut face. Overburden soils that will remain above the rock slopes should be designed at a 3H:1V slope.

We preliminary recommend a rock catchment ditch that is at least 10 feet wide from the toe of the rock slope. The bottom of the ditch should be sloped toward the toe of the rock slope at 4H:1V, which will reduce the quantity and velocity of potential falling rocks that reach the end of the catchment. Solid rock should not be exposed at the bottom of the catchment. We recommend a layer of crushed stone be placed within the catchment area to reduce the bounce height of a falling rock.

It should be noted that if the rock catchment ditch, rock slope, and overburden slope cannot be installled for various reasons, we recommend a catchment fence at the base and/or netting on the rock slope to achieve the same.

Pavement Areas

We have analyzed and designed an asphalt pavement section following the flexible pavement design guidelines given in the AASHTO Guide for Design of Pavement Structures. In areas of new pavement, we recommend removing existing structures and removing the existing topsoil and if encountered, subsoil. In areas where subsoil is encountered it should be fully excavated to natural subgrade and replaced with CGF up to bottom of our recommended pavement section.

Final subgrades should be proof compacted with a large, ride-on, vibratory roller until firm and stable and in accordance with our compaction requirements for CGF prior to installing new pavements. The new pavement section should consist of at least 1.5 inches of surface course over at least 1.5 inches of binder course over at least six inches of base course.

Seismic Site Class and Liquefaction Potential

We preliminary recommend adopting a site class “D” (Stiff Soil) profile for this project per the IBC. According to the Connecticut State Building Code for Woodbridge, Connecticut, S_S is 0.200g, and S_1 is 0.054g and we calculate S_{MS} as 0.320g, S_{M1} as 0.130g, S_{DS} as 0.213g, S_{D1} as 0.087g. We also recommend adopting a peak ground acceleration (PGA) of 0.112g and a site modified peak ground acceleration (PGA_M) of 0.177g for design.

Based on the standard penetration test results, material types encountered, estimated depth to groundwater, and expected peak ground acceleration at this locale, it is our opinion that site soils are not prone to liquefaction.

Material and Compaction Requirements

We believe the fill that does not contain deleterious materials may be reused as compacted granular fill (CGF) and should be stockpiled and tested for conformance with the requirements herein. Proposed fill materials should consist of hard durable sand and gravel that is free of ice, clay, shale, roots, sod, rubbish, and other organic matter.

CGF for use as structural fill should be graded within the following limits:

Sieve Size	Percent Finer by Weight
5 inches	100
3 ½ inches	90 – 100
1 ½ inches	55 – 95
¼ inch	25 – 60
No. 10	15 – 45
No. 40	5 – 25
No. 200	0 – 12

Crushed stone for use around drains should be graded within the following limits:

Sieve Size	Percent Finer by Weight
1 inch	100
¾ inch	90 – 100
⅜ inch	20 – 55
No. 4	0 – 10
No. 8	0 – 5

Sand and Gravel for use as slab base course should be graded within the following limits:

Sieve Size	Percent Finer by Weight
1 ½ inches	100
¾ inch	45 – 80
¼ inch	25 – 60
No. 10	15 – 45
No. 40	5 – 25
No. 200	0 – 12

Compaction Requirements

We recommend a minimum in-place dry density of 95-percent as per ASTM D1557 for material placed below foundations, slabs, and pavements and 92 percent for material placed behind foundation walls and earth retaining structures. Materials should be placed within two percent of their optimum moisture content. We recommend a maximum loose lift thickness of 12 inches.

Construction Considerations

General Site Preparation

Topsoil, subsoil, fill, and any other deleterious materials must be stripped or excavated during site preparation within the footprint of the proposed building. Topsoil and subsoil and any other deleterious surficial materials must be stripped or excavated during site preparation in the areas of the pavement areas. Excavated existing fill and natural soils should be stockpiled for reuse as backfill or as ordinary fill. Where existing soils are present at final subgrade levels, the exposed subgrades should be proof rolled with a larger double-drum roller. Materials disturbed during such removal should be undercut to undisturbed material below and backfilled with CGF.

Subgrade Preparation

Final subgrades should be free of water, ice, frozen soil, and loose soils prior to further construction or placement of additional fill materials. We recommend excavations in soil be conducted using a smooth-edged excavator bucket for final excavations to help protect the subgrade. The exposed natural subgrades should be proof compacted with at least four passes of a double-drum roller. Areas exhibiting instability should be over excavated and replaced with CGF or crushed stone, where appropriate. Where the subgrade consists of bedrock, the loose fragments should be removed by hand. Protruding rock should be chipped and crushed stone place to create a level surface for footing placement.

Where footing subgrades consist of dissimilar materials of rock and soil, the pier footings should be prepared to bear on similar material of soil. The rock should be hammered down 12 inches below bottom of footing and backfilled with CGF or crushed stone. Strip footings may bear on dissimilar materials using

a 10-foot-long transition. We recommend over excavating bedrock at a 4H:1V slope to a depth of 12 inches below bottom of footing elevation for a minimum distance of 10 feet, and backfilling with CGF or crushed stone to bottom of footing level.

Fill placement and/or construction should occur as soon as possible so that disturbance of bearing materials does not occur. Should the materials at bearing level become disturbed the affected materials should be removed prior to further construction. A 4-inch-thick layer of crushed stone may be used to protect subgrades that are expected to be open for an extended period.

Temporary Excavations

Temporary excavations may be required for site preparation and/or foundation construction. All excavations should be sloped or shored in accordance with local, state, and federal regulations, including Occupational Safety and Health Administration (OSHA) (29 CFR Part 1926) excavation trench safety standards.

Where excavations can be sloped, they should be sloped in accordance with OSHA requirements for a Class “C” soil, which can be cut at a maximum of one vertical to one and one-half horizontal (1V:1.5H), up to a maximum excavation depth of 20 feet assuming no surcharge loads (i.e., stockpiles, construction equipment, etc.) at the top of the excavations or seepage (e.g., cuts below the groundwater table).

We expect that all excavations will be able to be sloped in accordance with OSHA requirements but in the case, it is not possible, a temporary earth retaining structure (TERS) will be required. The TERS should be selected by the contractor and designed by a professional engineer registered in the State of Connecticut.

Dewatering

Based on the comparison of anticipated foundation depths with groundwater levels encountered in the test pits, we do not anticipate that groundwater will be encountered during construction. However, if construction proceeds during seasonally wet conditions, temporary construction dewatering may be required. We expect that control of the groundwater and surface water runoff can be accomplished with sumps and/or grading to low points. A crushed stone drainage blanket over the bottom of the excavation will facilitate dewatering. The contractor is ultimately responsible for selecting dewatering means and methods for maintaining subgrade in an undisturbed condition.

Construction Documents

Project drawings should be provided to SOLLI to review for conformance with the geotechnical recommendations contained herein. If changes are made to the locations or types of structures, the recommendations in this report will need to be reviewed and may be subject to revision.

Construction Quality Control

We recommend that Solli Engineering, LLC make field observations of excavations and foundation preparations to monitor actual conditions and compliance with our recommendations and project specifications. Specifically, we recommend field observation of bedrock removal and footing subgrade. We can also assist in classifying material on site for segregation and/or mixing for reuse on site.

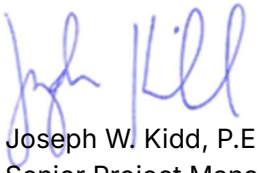
Limitations

This report is subject to the limitations included in Appendix 3.

Thank you for the opportunity to be of service. Please feel free to call either of the undersigned if you have questions.

Sincerely,

Robert D. Gowisnock, Jr.
Assistant Project Manager

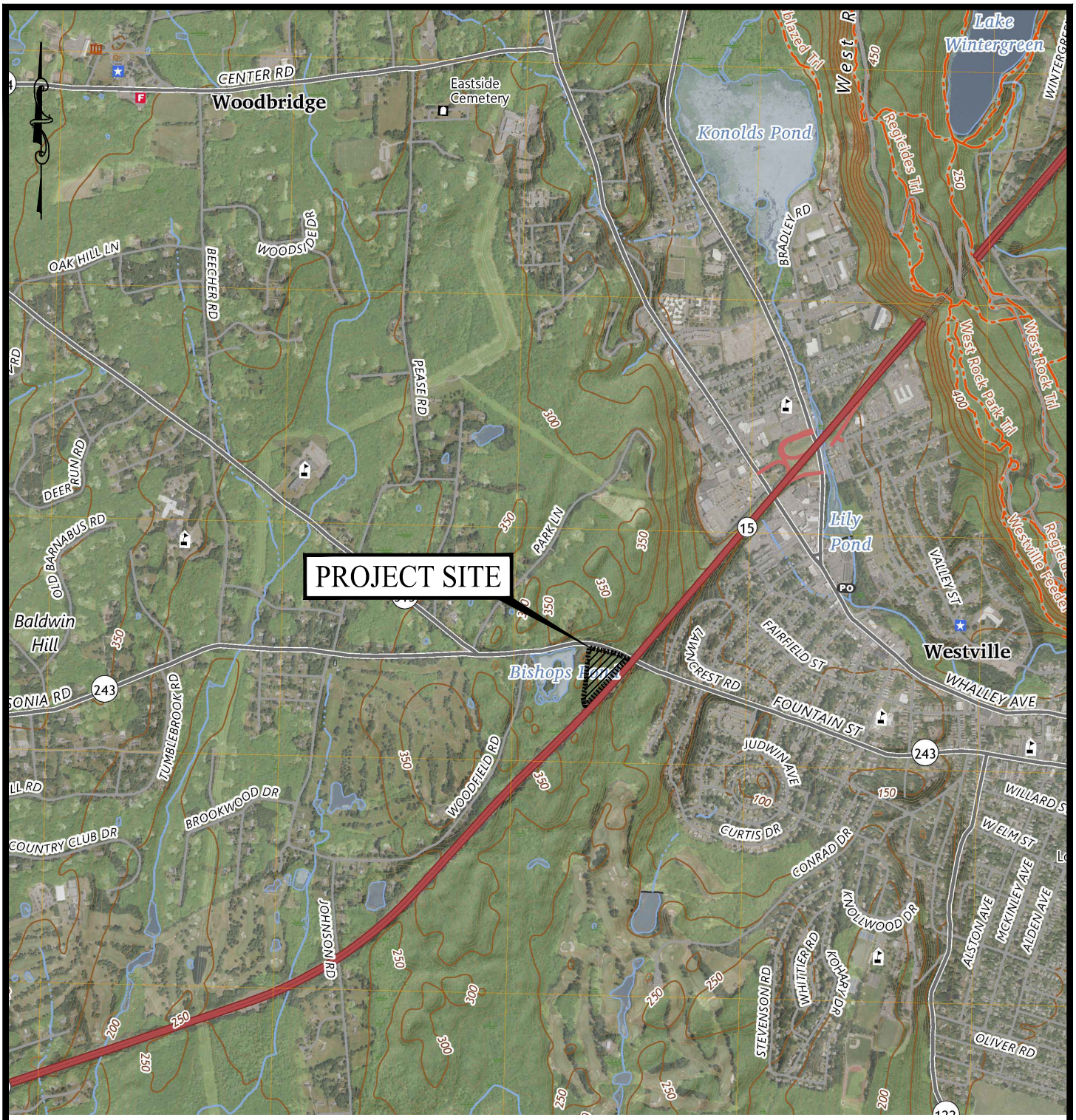


Joseph W. Kidd, P.E.
Senior Project Manager

Attachments: Appendix 1 – Figures
Appendix 2 – Test Pit Logs
Appendix 3 – Limitations

Appendix 1

Figures



NOTE: BASE MAP INFORMATION TAKEN FROM USGS ANSONIA, MOUNT CARMEL, NAUGATUCK, NEW HAVEN QUADRANGLES CONNECTICUT 7.5-MINUTE TOPO.

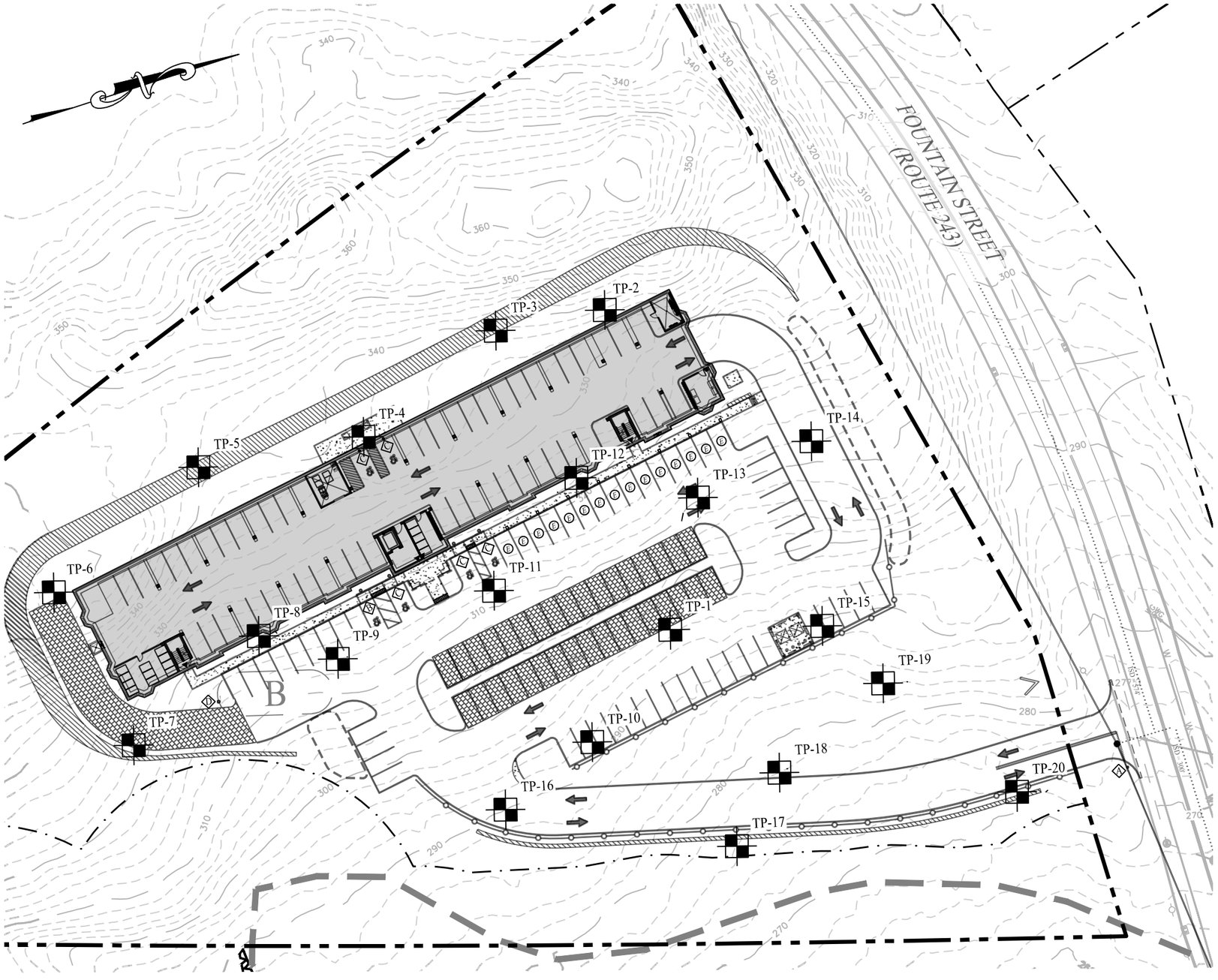
2,000 0 1,000 2,000

SOLLI ENGINEERING
MONROE, CT | W. HARTFORD, CT | NORWOOD, MA
SOLLIENGINEERING.COM
T: (203) 880-5455 | F: (203) 880-9695

LOCUS PLAN

804 FOUNTAIN STREET
WOODBRIDGE, CONNECTICUT

Project #:	25111001
Plan Date:	07/09/25
Scale:	1" = 2,000'
Figure:	1



GENERAL NOTES

1. EXISTING BOUNDARY, TOPOGRAPHIC, AND SITE CONDITION INFORMATION TAKEN FROM A PLAN TITLED "EXISTING CONDITIONS MAP"; SCALE 1"=40'; DATED: 03/05/2024; BY JOHN PAUL GARCIA & ASSOCIATES.
2. TEST PITS WERE PERFORMED ON JULY 21, 2025 & JULY 22, 2025 BY DAVID M. KOCH LANDSCAPING, LLC .
3. EXPLORATIONS WERE LOCATED USING A HAND-HELD GPS. THESE LOCATIONS SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

LEGEND

PROPERTY LINE

TP-1 TEST PIT LOCATION

100 0 50 100

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Drawn By:	AAT
Checked By:	KMS
Project #:	25111001
Plan Date:	07/22/2025
Scale:	1" = 100'

Project:

PROPOSED RESIDENTIAL DEVELOPMENT
804 FOUNTAIN STREET
WOODBRIDGE, CONNECTICUT

Sheet Title:

SUBSURFACE EXPLORATION LOCATION PLAN

FIG. 2

Appendix 2

Test Pit Logs

TEST PIT LOG

Solli
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T: (203) 880-5455 F: (203) 880-9695

PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-1
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

Ground Elev: ±295.0'
Datum: N/A
Date: 07/22/2025
Time Start: 9:50 AM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.	E		
2	**SUBSOIL**	Light brown, fine to coarse SAND, some Silt, little fine to coarse Gravel, trace Roots, with Cobbles.	E		
3			M		1
4			D		2
5		Bottom of Exploration at ±4.0'			
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±3.0'.
2. Bucket refusal at ±4.0'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation

12.0'
8.0'
N

BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

TEST PIT LOG

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PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-2
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

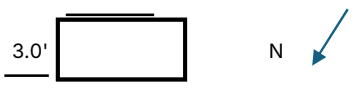
Ground Elev: ±338.0'
Datum: N/A
Date: 07/21/2025
Time Start: 12:50 PM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.	E		
2		Light brown, fine to coarse SAND, some Silt, little fine to coarse Gravel, trace Roots, with Cobbles.	E	2A, 1B	
3	**SUBSOIL**		M	1C	
4			M		1
5	**SAND**	Gray, fine to coarse SAND, little fine to coarse Gravel, trace Silt.	D		2
6		Bottom of Exploration at ±4.5'			
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±4.0'.
2. Bucket refusal at ±4.5'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation



BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

TEST PIT LOG

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PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-3
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

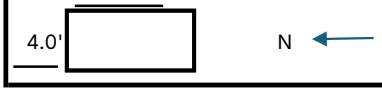
Ground Elev: ±338.0'
Datum: N/A
Date: 07/21/2025
Time Start: 12:45 PM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.	E		
2	**SUBSOIL**	Light brown, fine to coarse SAND and SILT, little fine to coarse Gravel, trace Roots, with Cobbles.	M	2A	
3			M	1B	1
4			D		2
5		Bottom of Exploration ±3.5'			
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±3.0'.
2. Bucket refusal at ±3.5'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation



BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
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D = Difficult

TEST PIT LOG

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PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-4
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

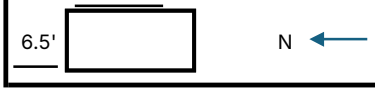
Ground Elev: ±337.5'
Datum: N/A
Date: 07/21/2025
Time Start: 12:35 PM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.	E		
2	**SUBSOIL**	Light brown, fine to coarse SAND, some Silt, little fine to coarse Gravel, trace Roots, with Cobbles.	M	1A, 1B	
3			M		1
4		Bottom of Exploration ±3.5'	D		2
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±3.0'.
2. Bucket refusal at ±3.5'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation



BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

TEST PIT LOG

Solli
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PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-5
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

Ground Elev: ±342.0'
Datum: N/A
Date: 07/21/2025
Time Start: 10:25 AM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.	E		
2		Light brown, fine to coarse SAND and SILT, little fine to coarse Gravel, trace Roots, with Cobbles.	M	1A	
3	**SUBSOIL**		M	1A, 1B	
4			D		1 2
5		Bottom of Exploration ±4.0'			
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±3.5'.
2. Bucket refusal at ±4.0'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation

BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

TEST PIT LOG

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PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-6
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

Ground Elev: ±351.0'
Datum: N/A
Date: 07/21/2025
Time Start: 10:45 AM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.	E		
2	**SUBSOIL**	Light brown, fine to coarse SAND, some Silt, little fine to coarse Gravel, trace Roots.	M	1A, 1B 1C	
3			D		1 2
4		Bottom of Exploration ±3.0'			
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±2.5'.
2. Bucket refusal at ±3.0'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation

BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

TEST PIT LOG

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PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-7
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

Ground Elev: ±322.0'
Datum: N/A
Date: 07/21/2025
Time Start: 11:00 AM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.	E		
2	**SUBSOIL**	Light brown, fine to coarse SAND, some Silt, little fine to coarse Gravel, trace Roots, with Cobbles.	M	1B, 2C	
3			M		
4			M	1A, 1B	
5	**SAND**	Gray, fine to coarse SAND, little fine to coarse Gravel, trace Silt, trace Roots, with Cobbles.	M		1
6			D		2
7		Bottom of Exploration ±6.0'			
8					
9					
10					
11					
12					
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±5.0'.
2. Bucket refusal at ±6.0'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation

BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

TEST PIT LOG

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PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-8
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

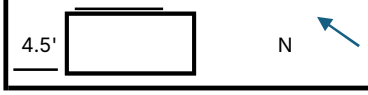
Ground Elev: ±320.0'
Datum: N/A
Date: 07/21/2025
Time Start: 11:20 AM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.		E	
2	**SUBSOIL**	Brown, fine to coarse SAND, some Silt, little fine to coarse Gravel, trace Roots, with Cobbles.	1A	E	
3			1A,1B	E	
4			2A	M	
5	**SAND**	Gray, fine to coarse SAND, little fine to coarse Gravel, trace Silt,	2A, 2B	M	
6			1C	M	
7				M	1
8				D	2
9		Bottom of Exploration ±8.0'			
10					
11					
12					
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±7.0'.
2. Bucket refusal at ±8.0'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation



BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

TEST PIT LOG

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PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-9
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

Ground Elev: ±314.0'
Datum: N/A
Date: 07/21/2025
Time Start: 9:50 AM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.	E		
2	**SUBSOIL**	Light brown, fine to coarse SAND, some Silt, little fine to coarse Gravel, trace Roots, with Cobbles.	E		
3			E	1B	
4		Gray, fine to coarse SAND, little fine to coarse Gravel, trace Silt, with Cobbles.	M	1B	
5			M	1B	
6			M	2B	
7	**SAND**		M		1
8			M		
9			M		
10			M		
11			D		
12		Bottom of Exploration ±11.0'			
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±6.5'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation

10.0'
9.0'
N

BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

TEST PIT LOG

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PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-10
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

Ground Elev: ±291.5'
Datum: N/A
Date: 07/22/2025
Time Start: 9:20 AM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.		E	
2		Brown, fine to coarse SAND, little Silt, little fine to coarse Gravel, trace Roots,		E	
3	**SUBSOIL**	Brown, fine to coarse SAND, some Silt, little fine to coarse Gravel, with Cobbles.		E	
4				E	
5				E	1
6		Gray, fine to coarse SAND, little fine to coarse Gravel, trace Silt, with Cobbles.	1A	E	
7				M	
8	**SAND**			M	
9				M	
10				M	
11				M	
12		Bottom of Exploration ±11.0'			
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±4.5'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation

BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

TEST PIT LOG

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PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-11
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

Ground Elev: ±312.0'
Datum: N/A
Date: 07/21/2025
Time Start: 12:10 PM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.			
2	**SUBSOIL**	Light brown, fine to coarse SAND, some Silt, little fine to coarse Gravel, trace Roots, with Cobbles.			
3					
4					
5	**SAND**	Gray, fine to coarse SAND, little fine to coarse Gravel, trace Silt, trace Roots.	2A		1
6					2
7		Bottom of Exploration ±6.5'			
8					
9					
10					
11					
12					
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±6.0'.
2. Bucket refusal at ±6.5'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation

12.0'
6.5'
N

BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

TEST PIT LOG

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PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-12
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

Ground Elev: ±322.0'
Datum: N/A
Date: 07/22/2025
Time Start: 8:45 AM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.	E		
2	**FILL**	Reddish brown, fine to coarse SAND, some Silt, little fine to coarse Gravel, trace Debris (e.g., bricks), with Cobbles.	M		
3			D		1,2
4		Bottom of Exploration ±2.5'			
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±2.5'.
2. Bucket refusal at ±2.5'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation

BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

TEST PIT LOG

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PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-13
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

Ground Elev: ±311.0'
Datum: N/A
Date: 07/22/2025
Time Start: 8:35 AM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.	E		
2		Gray, fine to coarse SAND, little Silt, little fine to coarse Gravel, trace Roots, trace Debris (e.g., brick).	E		
3	**FILL**		M		
4		Reddish brown, fine to coarse SAND, some Silt, little fine to coarse Gravel, trace Debris (e.g., concrete), with Cobbles.	M	1A	1
5	**SAND**	Gray, fine to coarse SAND, little fine to coarse Gravel, trace Silt.	D		2
6		Bottom of Exploration ±4.5'			
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±3.5'.
2. Bucket refusal at ±4.5'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation

BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

TEST PIT LOG

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PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-14
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

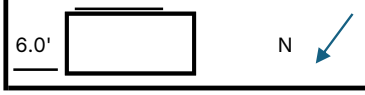
Ground Elev: ±312.0'
Datum: N/A
Date: 07/22/2025
Time Start: 7:55 AM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.	E		
2	**FILL**	Gray, fine to coarse SAND, little Silt, little fine to coarse Gravel, trace Roots.	E	1A	
3			E		
4		Reddish brown, fine to coarse SAND, some Silt, little fine to coarse Gravel, trace Debris (e.g., bricks), with Cobbles.	E		
5	**SAND**	Gray, fine to coarse SAND, little fine to coarse Gravel, trace Silt,	M	1A	
6			M	2A	1
7			M	1B	
8			M	2A	
9		Bottom of Exploration ±8.0'			
10					
11					
12					
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±6.0'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation



BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

TEST PIT LOG

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PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-15
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

Ground Elev: ±289.0'
Datum: N/A
Date: 07/21/2025
Time Start: 1:25 PM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.	E		
2		Light brown, fine to coarse SAND and SILT, little fine to coarse Gravel, trace Roots.	E		
3	**SUBSOIL**		E		
4			E		
5		Gray, fine to coarse SAND, little fine to coarse Gravel, trace Silt,	M		
6			M	1A	1
7			M	1A	
8	**SAND**		M		
9			M		
10			M		
11			M		
12		Bottom of Exploration ±10.5'			
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±5.5'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation

BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

TEST PIT LOG

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PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-16
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

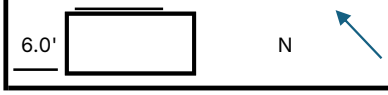
Ground Elev: ±290.0'
Datum: N/A
Date: 07/21/2025
Time Start: 8:40 AM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.	E		
		Brown, fine to coarse SAND, little fine to coarse Gravel, little Silt, trace Roots			
2	**SUBSOIL**	Light brown, fine to coarse SAND, some Silt, little fine to coarse Gravel, with Cobbles.	E		
3			M	2A	
4	**SAND**	Gray, fine to coarse SAND, little fine to coarse Gravel, trace Silt, trace Roots, with Cobbles.	M	2A	
5			M	2A, 2B	1
6			M		
7			M		
8			M		
9			M		
10 ▼			M		2
11			D		
12		Bottom of Exploration ±11.0'			
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±4.5'.
2. Water encountered at ±10.0'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation



BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

TEST PIT LOG

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PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-17
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

Ground Elev: ±276.0'
Datum: N/A
Date: 07/21/2025
Time Start: 8:15 AM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.	E		
2		Light brown, fine to coarse SAND, some Silt, little fine to coarse Gravel, trace Roots.	E		1
3	**SUBSOIL**		M	1C	
4			M	1B, 1C	
5			M		
6	**SAND**	Gray, fine to coarse SAND, little fine to coarse Gravel, trace Silt, trace Roots, with Cobbles.	D		2
7		Bottom of Exploration ±5.5'			
8					
9					
10					
11					
12					
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±2.0'.
2. Bucket refusal at ±5.5'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation

BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

TEST PIT LOG

Solli
MONROE, CT | W. HARTFORD, CT | NORWOOD, MA
T: (203) 880-5455 F: (203) 880-9695

PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-18
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

Ground Elev: ±278.0'
Datum: N/A
Date: 07/21/2025
Time Start: 7:50 AM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.			
2	**SUBSOIL**	Light brown, fine to coarse SAND, some Silt, little fine to coarse Gravel, with Cobbles.		1A	
3					
4				1A	
5	**SAND**	Gray, fine to coarse SAND, little fine to coarse Gravel, trace Silt.		1B	1
6					
7					
8					
9	▼				
10		Bottom of Exploration ±9.5'			2
11					
12					
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±4.5'.
2. Water encountered at ±9.5'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation

BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

TEST PIT LOG

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PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-19
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

Ground Elev: ±284.0'
Datum: N/A
Date: 07/21/2025
Time Start: 1:50 PM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.	E		
		Light brown, fine to coarse SAND, some Silt, little fine to coarse		1A	
2		Gravel, trace Roots.	E		
				1A	
3	**SUBSOIL**		M		
				1A	1
4			M		
5	**SAND**	Gray, fine to coarse SAND, little fine to coarse Gravel, trace Silt, trace Roots.	D		2
		Bottom of Exploration ±4.5'			
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±3.0'.
2. Bucket refusal at ±4.5'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation

9.0'
5.0'
N

BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

TEST PIT LOG

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PROJECT
Proposed Residential Development
804 Fountain Street
Woodbridge, Connecticut

Test Pit No: TP-20
Sheet: 1 of 1
Project #25111001
Checked By: J. Kidd

Solli Representative: A. Tedesco
Exc. Contractor: David M. Koch Landscaping, LLC
Exc. Operator: D. Koch
Weather: Sunny 70's

Make: Caterpillar
Model: 304E2
Capacity: 0.5 cy
Reach: ±10.0'

Ground Elev: ±272.0'
Datum: N/A
Date: 07/22/2025
Time Start: 2:05 PM

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description	Excavation Effort	Boulder Qty/Class	Notes
1	**TOPSOIL**	Dark brown, SILT, trace fine to coarse Sand, trace Roots.	E		
2		Gray, fine to coarse SAND, little Silt, little fine to coarse Gravel, trace Roots.	E	1C	
3	**FILL**		E	1A	
4		Reddish brown, fine to coarse SAND, some Silt, little fine to coarse Gravel.	E	1C	
5			E	1A	
6	**SAND**	Gray, fine to coarse SAND, little fine to coarse Gravel, trace Silt, trace Roots, with Cobbles.	M		1
7	▼		M		2
8			M		
9		Bottom of Exploration ±8.0'			
10					
11					
12					
13					
14					
15					
16					

Notes:
1. Roots encountered up to ±5.0'.
2. Water encountered at ±6.5'.

Water Symbols
▼ = Groundwater

Test Pit Dimensions & Orientation

BOULDER COUNT

Boulder	Class
12"-24"	A
24"-36"	B
>36"	C

PROPORTIONS USED

< 10%	Trace
10-20%	Little
20-35%	Some
35-50%	And

EXCAVATION EFFORT
E = Easy
M = Moderate
D = Difficult

Appendix 3

Limitations

GEOTECHNICAL LIMITATIONS

Explorations

1. The analysis and recommendations submitted in this report are based in part upon the data obtained from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until construction. If variations then appear evident, it will be necessary to reevaluate the recommendations of this report.

2. The generalized soil profile described in the text is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized and have been developed from interpretation of widely spaced explorations and samples; actual soil transitions are probably more erratic. For specific information, refer to the test pit logs.

3. Water level readings have been made at the times and under the conditions stated on the test pit logs. This data has been reviewed and interpretations made in the text of this report. However, it must be noted that fluctuations in the level of the groundwater may occur due to variations in rainfall, temperature and other factors occurring since the time measurements were made.

Review

4. If any changes in the nature, design or location of the proposed structure are planned, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed and conclusions of this report modified or verified in writing by Solli Engineering, LLC. It is recommended that this firm be provided with the opportunity for a general review of final design and specifications in order that earthwork and geotechnical recommendations may be properly interpreted and implemented in the design and specifications.

Use of Report

5. This report has been prepared for the exclusive use of Fountain Street Associates, LLC and their design team for specific application to the proposed residential development that will be located at 804 Fountain Street in Woodbridge, Connecticut in accordance with generally accepted soil and foundation engineering practices. No other warranty, express or implied, is made.