INLAND WETLANDS
COMMISSION
Telephone (203) 563-0180
Fax (203) 563-0284

TOWN HALL
238 Danbury Road
Wilton, Connecticut 06897

APPLICATION FOR AN INTERMEDIATE REGULATED ACTIVITY

For Office Use Only:

WET#_____

Filing Fee $_____ Wilton Land Record Map# _____

Date of Submission _____ Volume # _____ Page # _____

Date of Acceptance_____ Assessor's Map # _____ Lot# _____

APPLICANT INFORMATION:

Applicant Jay Moon

Address 49 Liberty Street
Wilton, CT

Telephone (917) 771-3335

Email jaymoon13@gmail.com

Agent (if applicable) Signature Pools Inc

Address 2 Reynolds Street
Norwalk, CT 06855

Telephone 475-889-2236

Email Michael@signaturepoolsinc.com

PROJECT INFORMATION:

Property Address 49 Liberty Street

Site Acreage 2.00 Acres

Acres of altered Wetlands On-Site 0 Acres

Cu. Yds. of Material Excavated 83 CY

Linear Feet of Watercourse 0'

Cu. Yds. of Material to be Deposited 11 CY

Linear Feet of Open Water 0'

Acres of altered upland buffer 0.02 Acres

Sq. Ft. of proposed and/or altered impervious coverage 720 sq.ft.

Sq. Ft. of disturbed land in regulated area 0 sq.ft.

APPLICATION REQUIREMENTS:

Is The Site Within a Public Water Supply Watershed Boundary? NO [X] YES* [ ]

Is The Site Within 500 Feet of a Town Boundary? NO [X] YES* [ ]

* If the answer is yes, then the applicant is responsible for notifying the appropriate water authority and/or adjoining community's Wetlands Department. Instructions for notification are available at the office of the commission.

Project Description and Purpose: Construction of a 18' x 40' inground pool with associated minor regrading. A silt fence is proposed along the down gradient portion of the property to mitigate sedimentation impacts to the wetlands area.

In addition, the applicant shall provide nine (9) collated copies of the following information as well as an electronic submission via email to mike.conklin@wiltonct.org & elizabeth.larkin@wiltonct.org **

- ☐ A. Written consent from the owner authorizing the agent to act on his/her behalf
- ☐ B. A Location Map at a scale of 1" = 800'
- ☐ C. ***A Site Plan showing existing and proposed features at a scale not to exceed 1" = 40'***
- ☐ D. Sketch Plans depicting the alternatives considered
- ☐ E. Names and addresses of adjoining property owners
- ☐ F. A narrative describing, in detail

  a. the proposed activity
  b. the alternatives considered
  c. impacts
  d. proposed mitigation measures

- ☐ G. Soils Report prepared by a Certified Soil Scientist and Wetlands Map prepared by a Registered Land Surveyor
- ☐ H. Description of the chemical and physical characteristics of fill material to be used in the Regulated Area
- ☐ I. Description and maps detailing the watershed of the Regulated Area
- ☐ J. One original application and eight (8) copies

****Application materials shall be collated and copies of documents more than two pages in length shall be double sided.**

See Section 7 of the Wetlands and Watercourses Regulations of the Town of Wilton for a more detailed description of applications requirements.

The Applicant or his/her agent certifies that he is familiar with the information provided in this application and is aware of the penalties for obtaining a permit through deception, inaccurate or misleading information.

By signing this application, permission is hereby given to necessary and proper inspections of the subject property by the Commissioners and designated agents of the Commission or consultants to the Commission, at reasonable times, both before and after a final decision has been rendered.

Applicant's Signature:_____ _____ Date:_____

Agent's Signature (if applicable):_____ _____ Date:_____

WILTON BUILDING
DEPARTMENT

Building Official
Demolition Officer
Tel: 203-563-0177

TOWN HALL ANNEX
238 Danbury Road
Wilton, Connecticut 06897

Fax: 203-563-0284

LETTER OF AUTHORIZATION

To Whom It May Concern:

I hereby declare the following:

1. That I am the owner of the premises described as follows:

49 Liberty St | Wilton | CT | _____
Street | City | State | Zone

2. That Signature Pools Inc is duly authorized for and on behalf of the owner to execute an application for building, zoning, health and wetlands permits to enable him/her to obtain permits to complete construction of the following work New inground pool

at the above site.

3. That _____ is hereby designated as the owner's representative with whom all town departments may deal with in respect to the work involved.

4. That this authorization also includes any and all electrical, plumbing, heating, and HVAC contractors doing work in conjunction with the above noted activity to obtain the appropriate sub permits.

Date: 12/8/23

Owner: JON MOON _____
Print Name | Signature

TOWN OF WILTON, CT

Wed Feb 28 2024 09:26:35 GMT-0500 (Eastern Standard Time)

Parcel ID	Site Address	Owner Name	Mailing Address	Mailing City	Mailing State	Mailing Zip
18-45	61 LIBERTY ST	BENDER SCOTT R & MICHELE J	61 LIBERTY ST	WILTON	CT	06897- 0000
18-46	55 LIBERTY ST	MCGINLEY JOHN R TRUSTEE	55 LIBERTY ST	WILTON	CT	06897- 0000
18-47	49 LIBERTY ST	MOON JON A & JENNIFER L SV	49 LIBERTY ST	WILTON	CT	06897- 0000
18-48	20 BRANDON CIRCLE	PENCU ALEXANDER D & RACHEL A	20 BRANDON CIRCLE	WILTON	CT	06897- 0000

Signature Pools, Inc.

2 Reynolds Street

Norwalk, CT 06855

Wilton Wetlands Agency

Re: Pool Construction at 49 Liberty Street

To whom it may concern,

This narrative is to discuss the proposed pool installation at the Moon residence at 49 Liberty Street in Wilton. The proposed location of the pool is in the rear of the property just off the back of the existing patio. It is a standard size pool at 18'x40' especially given the overall size of the property.

Encompassing essentially the entire rear of the property is wetland soils, these soils exist in a wooded area that would not be worked on. Due to the location of the wetland flagging there are truly no better locations for the pool, as the entire rear of the property falls within the hundred-foot wetland upland review area and is also encroached upon by the 40' side yard zoning setback. The only truly open area would be the front lawn, which would not be an option as the proposed B100 septic reserve area has been proposed there. The proposed position has been deemed the optimal position in order to minimize disruption while also abiding by all other setbacks.

Our goal is to start by excavating the ledge rock from the site, the remaining ledge would aid to keep any soils from entering the wetlands during construction. At that point an access road would be installed and we would enter from the driveway in order to excavate the pool area. This whole timeline of events would take roughly a week and would be the bulk of the disturbance to the site. During this period no foreign soils would be introduced to the property. Once the concrete shell of the pool is completed, which would likely be in the following 2 weeks we would trench for the equipment which is located outside of the review area and then look to regrade the site and the disturbance would cease. Seed or sod would be completed in the spring and the site would maintain its graded condition throughout the winter.

If any further information is needed, or you have overall concerns about the project you are welcome to reach out to me via email; michael*@signaturepoolsinc.com.*

Sincerely,

_____

Michael Iacono

"Controller"

WETLAND DELINEATION

FOR THE PROPERTY LOCATED AT

49 LIBERTY STREET
WILTON, CONNECTICUT

REPORT PREPARED BY

ALEKSANDRA MOCH

SOIL & WETLAND SCIENTIST

LANDSCAPE DESIGNER, CPESC

GEOLOGIST/HYDROGEOLOGIST

December 22, 2023

SITE DESCRIPTION

The property is located at the corner of Brandon Circle and Liberty Street in Wilton, CT. This 2 acres site supports a single-family residence with a detached garage, a septic system and a driveway. The area is divided into wooded southwest and developed northeast. The developed portion of the property is maintained as a lawn and is underlined by a shallow ledge formation which outcrops in the rear of the residence. The site drains towards the southwest.

METHODS

Wetland identification was performed on December 22, 2023 and based on the presence of poorly drained, very poorly drained, alluvial, and/or floodplain soils and submerged land. The soil types were identified by observation of soil morphology including soil texture, structure, color, etc. Numerous soil samples were taken using an auger. Sampling began within the typical wetland/watercourse area and continued toward the upland. Soil morphology was observed at soil sampling points along the transect lines perpendicular to the wetland/watercourse boundary. At each transect, the boundary between the upland and wetlands/watercourses were marked with orange surveyor's tape labeled "*WET*". Each flag was numbered sequentially from 1-11 along the northeastern edge of the wetland/watercourse area.

WETLANDS/WATERCOURSES REGULATORY DEFINITION

The Inland Wetlands and Watercourses Act (Connecticut General Statues section 22a-38) defines inland wetlands as *land, including submerged land…which consists of any soil types designated as poorly drained, very poorly drained, alluvial, and floodplain.*

Watercourses are defined in the statues as *rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs and all other bodies of water, natural or artificial, vernal or intermittent, public or private, which are contained within, flow through or border upon the state or any portion thereof.*

Intermittent watercourse: is determined by a defined permanent channel and bank and the occurrence of two or more of the following characteristics:

- Evidence of scour or deposits of recent alluvium or detritus,
- Presence of standing or flowing water for a duration longer than a particular storm incident, and
- Presence of hydrophytic vegetation.

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WETLAND/WATERCOURSE DESCRIPTION

The area marked in the field consists of a red maple swamp environment. The area is situated within the southeastern section of the site. The area is being preserved in its natural state and supported by mostly wooded buffer. The wetland/watercourse area overflows into a man-made swale which conveys the flow towards the street culvert. This area was examined in terms of the presence of wetland soil and/or intermittent water course characteristic. No evidence was found to support this area being a wetland or a watercourse.

WETLAND SOILS

The soils were classified using soil criteria and maps developed by USDA Natural Resource Conservation Service.

3 – Ridgebury, Leicester, and Whitman extremely stony fine sandy loams
This unit consists of poorly, drained and very poorly drained soils. Including with this unit in mapping are small areas of moderately well drained Woodbridge and Sutton soils and very poorly drained Adrian and Scarboro soils. The major soils in this unit have a seasonal high water table at or near the surface from fall through spring.

Ridgebury soils have a surface layer of very dark grayish brown fine sandy loam. The subsoil is brown and light brownish gray, mottled fine sandy loam. The substratum is grayish brown and dark yellowish brown, mottled fine sandy loam.

Leicester soils have a surface layer of black fine sandy loam. The subsoil is brown, mottled fine sandy loam and gravelly fine sandy loam. The substratum is olive brown, mottled gravelly fine sandy loam.

Whitman soils have a surface layer of very dark gray fine sandy loam. The upper section of subsoil is dark and grayish brown gravelly fine sandy loam. The lower section of subsoil is grayish brown, mottled fine sandy loam. The substratum is very firm, grayish brown, mottled gravelly fine sandy loam.

UPLAND SOILS

84B—Paxton and Montauk fine sandy loams, 3 to 8 percent slopes
Paxton is a well-drained soil occurring on the drumlins, hills and ground moraines. The parent material consists of coarse-loamy lodgment till derived from gneiss, granite, and/or schist. The depth to restricted features vary between 20 and 39 inches. The depth to the groundwater table hovers between 18 and 37 inches.

Typical profile

- *0 - 8 inches:* fine sandy loam
- *8 - 15 inches:* fine sandy loam

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- *15 - 26 inches:* fine sandy loam
- *26 - 65 inches:* gravelly fine sandy loam

Montauk is a well-drained soil occurring on drumlins or hills. The parent material consist of coarse-loamy lodgment till derived from gneiss, granite, and/or schist. The depth to densic material varies from 20 to 38 inches. The depth to the groundwater table hovers between 24 and 30 inches.

Typical profile

- *0 to 4 inches:* fine sandy loam
- *4 to 14 inches:* fine sandy loam
- *14 to 25 inches:* sandy loam
- *25 to 39 inches:* gravelly loamy coarse sand
- *39 to 60 inches:* gravelly sandy loam

Certified by:

Aleksandra Moch
Wetland & Soil Scientist

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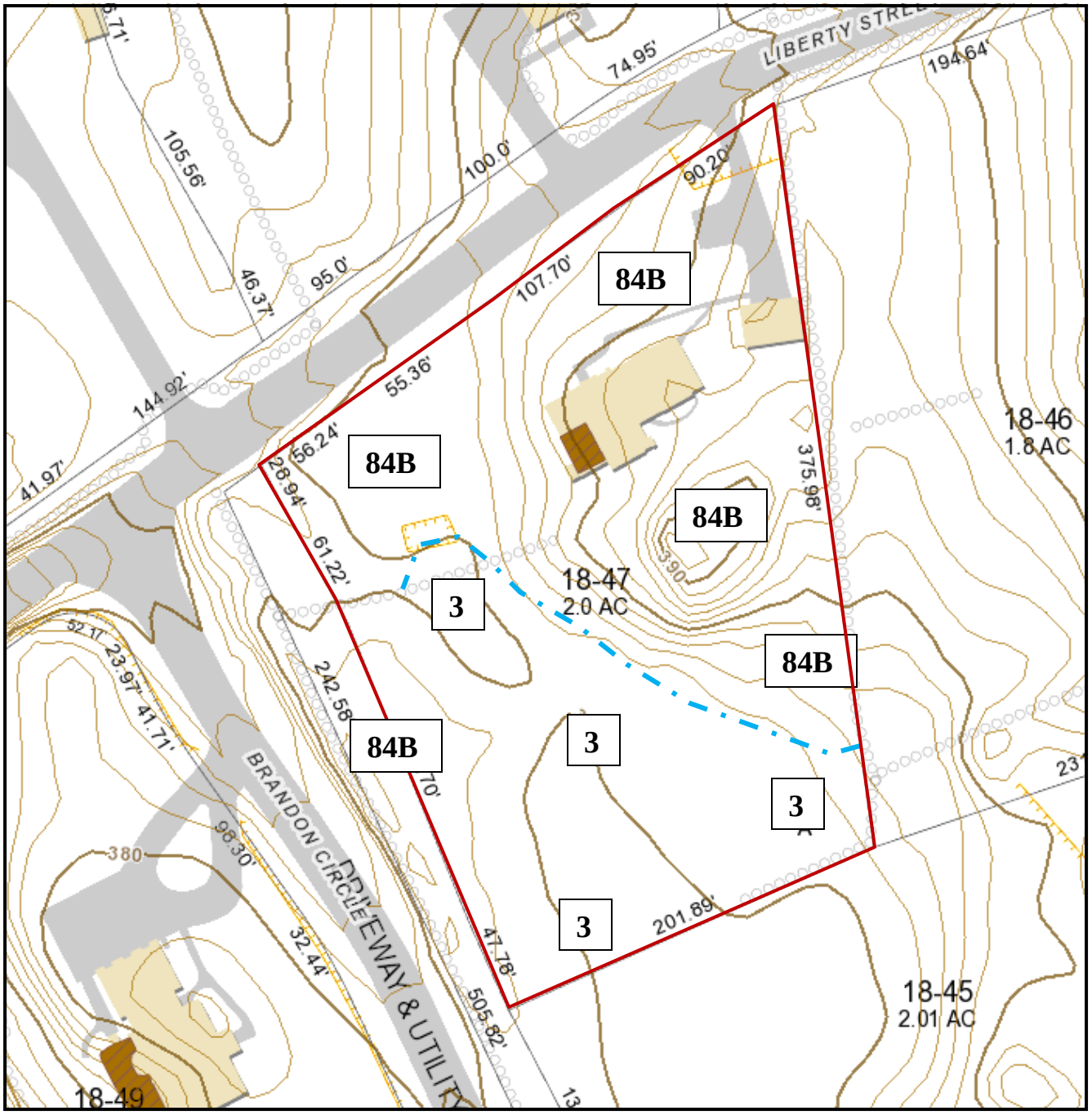
cell: (203) 550 9373, aleksandra_moch@yahoo.com



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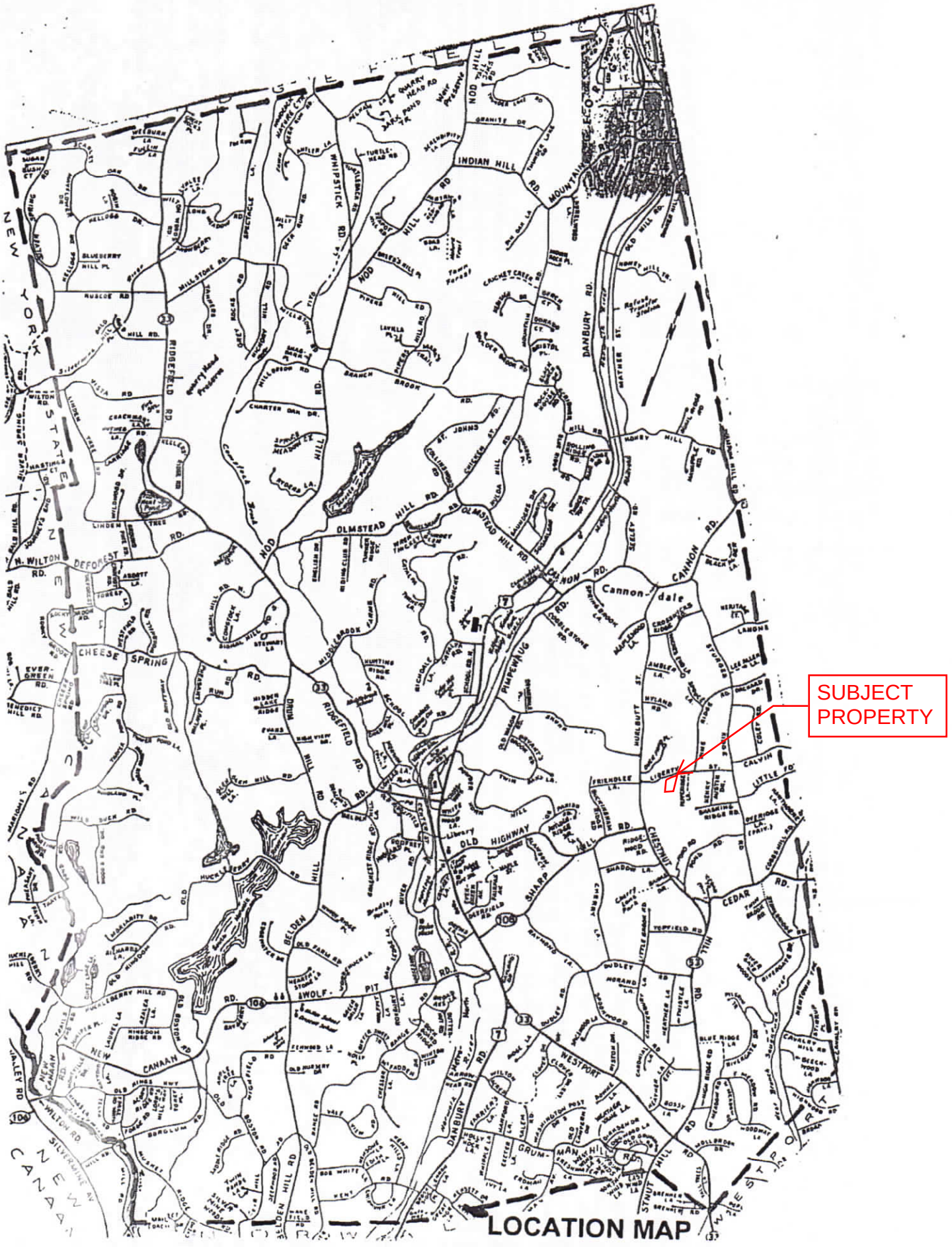
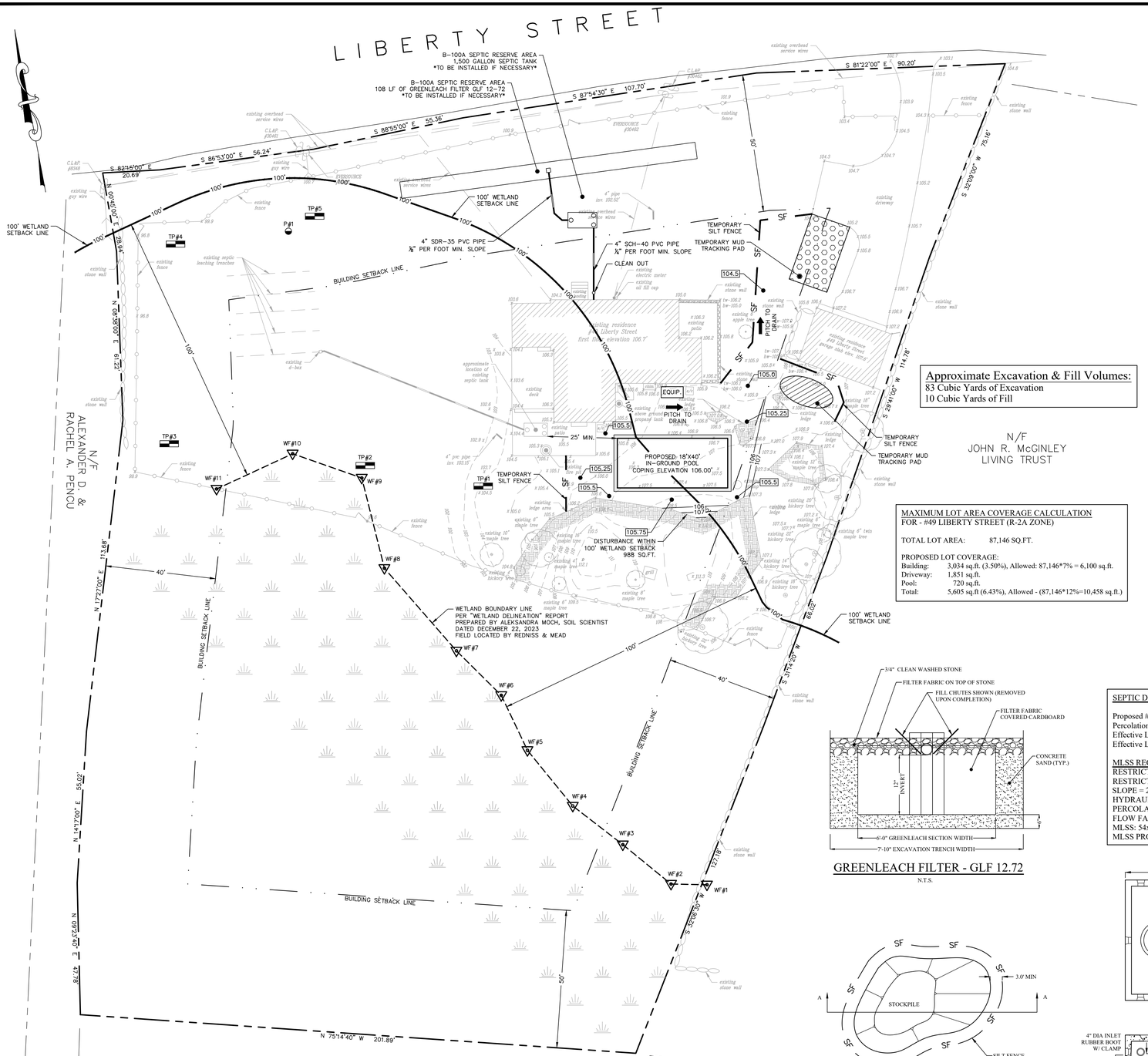

SUBJECT PROPERTY
LOCATION MAP



Approximate Excavation & Fill Volumes:

83 Cubic Yards of Excavation
10 Cubic Yards of Fill

MAXIMUM LOT AREA COVERAGE CALCULATION

FOR - #49 LIBERTY STREET (R-2A ZONE)

TOTAL LOT AREA: 87,146 SQ.FT.

PROPOSED LOT COVERAGE:

Building:	3,034 sq.ft. (3.50%),	Allowed: 87,146*7% = 6,100 sq.ft.
Driveway:	1,851 sq.ft.	
Pool:	720 sq.ft.	
Total:	5,605 sq.ft (6.43%),	Allowed - (87,146*12%=10,458 sq.ft.)

DEEP TEST PIT LOG

CONDUCTED BY: KOUSIDIS ENGINEERING, LLC
DATE CONDUCTED: NOVEMBER 06, 2023

TEST PIT #1
00-14" TOPSOIL & MISCELLANEOUS FILL
14-24" ORIGINAL TOPSOIL
24-66" ORANGE BROWN SILTY LOAM
66-80" BROWN FINE SAND & SILT
*NO MOTTLES
*NO GROUND WATER
*NO LEDGE
*ROOTS TO 66"

TEST PIT #2
00-14" TOPSOIL
14-26" TAN MOTTLED FINE SAND & SILT
26-56" TAN MOTTLED & COMPACTED FINE SAND & SILT
56-72" BROWN FINE SAND & SILT
*MOTTLES @ 14"
*GROUND WATER @ 34"
*NO LEDGE
*ROOTS TO 26"

TEST PIT #3
00-14" TOPSOIL
14-24" TAN MOTTLED FINE SAND & SILT
26-48" TAN MOTTLED & COMPACTED FINE SAND & SILT
48-56" BROWN MOTTLED FINE SAND & SILT
*MOTTLES @ 14"
*GROUND WATER @ 36"
*NO LEDGE
*ROOTS TO 14"

TEST PIT #4
00-22" TOPSOIL & MISCELLANEOUS FILL
22-32" ORIGINAL TOPSOIL
32-42" ORANGE BROWN SILTY LOAM
42-76" TAN MOTTLED & COMPACTED FINE SAND & SILT
*MOTTLES @ 42"
*GROUND WATER @ 44"
*NO LEDGE
*ROOTS TO 42"

TEST PIT #5
00-06" TOPSOIL
06-20" TAN SILTY LOAM
20-36" BROWN COMPACTED FINE SAND & SILT
36-72" LIGHT BROWN MOTTLED FINE SAND & SILT
*MOTTLES @ 20"
*GROUND WATER @ 44"
*NO LEDGE
*ROOTS TO 20"

PERCOLATION TEST DATA:

P#1
PERFORMED BY: KOUSIDIS ENGINEERING, LLC
DATE: NOVEMBER 06, 2023
DIAMETER: 8" SANITARIAN: N/A
DEPTH: 18" PRE SOAK TIME: 11:00 A.M.

TIME	TIME INCREMENT	DEPTH TO WATER	DROP IN INCHES	PERC. RATE (MIN./INCH.)
12:15	-	4.00"	-	-
12:25	10.0 MIN.	7.00"	3.00"	3.33
12:35	10.0 MIN.	9.25"	2.25"	4.44
12:45	10.0 MIN.	10.75"	1.50"	6.67
12:55	10.0 MIN.	12.00"	1.25"	8.00
01:05	10.0 MIN.	13.00"	1.00"	10.00
01:15	10.0 MIN.	14.00"	1.00"	10.00

SEPTIC DESIGN NOTES (GREENLEACH FILTER GLF 12-72)

SEPTIC RESERVE AREA

Proposed # of Bedrooms: 5
Percolation Rate: 1"/10 min. (Design Rate)
Effective Leaching Area Required: 660 sq. ft.
Effective Leaching Area Provided: (108LF)(10.1SF/LF)=1,090.8 SF

MLSS REQUIREMENTS:
RESTRICTIVE LAYER: (TP#4+TP#5)/2
RESTRICTIVE LAYER: (20"+20")/2 = 20"
SLOPE = 2.1-3.0%
HYDRAULIC FACTOR: 54
PERCOLATION FACTOR: 1.0 (1"/10MIN)
FLOW FACTOR: 2.0 (5-BEDROOM DESIGN)
MLSS: 54x1.0x2.0 = 108LF
MLSS PROVIDED: 108LF

GENERAL NOTES:

1. ALL SURVEY DATA, BOUNDARY LINES AND TOPOGRAPHY, ARE FROM A "EXISTING BUILDING LOCATION & LIMITED TOPOGRAPHY SURVEY" PREPARED FOR JON A. & JENNIFER L. MOON AT 49 LIBERTY STREET, WILTON, CT, PREPARED BY REDNISS & MEAD, DATED NOVEMBER 01, 2023.
2. ALL CONSTRUCTION SHALL COMPLY WITH THE TOWN OF WILTON REQUIREMENTS, THE STATE OF CONNECTICUT BASIC BUILDING CODE AND THE CONNECTICUT GUIDELINES FOR SOIL AND EROSION AND SEDIMENT CONTROL.
3. INFORMATION OF EXISTING UTILITIES HAS BEEN COMPILED FROM VARIOUS SOURCES INCLUDING UTILITY COMPANY RECORDS, MUNICIPAL RECORD MAPS AND FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES INCLUDING SERVICES.
4. THE PROPERTY WILL BE SERVICED BY WELL WATER AND PRIVATE SEPTIC SYSTEM. NO KNOWN SEPTIC SYSTEMS AND STORM DRAIN SYSTEMS WITHIN 50' OF THE PROPOSED SEPTIC SYSTEM. NO KNOWN WELLS ARE LOCATED WITHIN 75' OF THE PROPOSED SEPTIC SYSTEM.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY EXCAVATION SAFEGUARDS, NECESSARY BARRICADES, FLAGMEN, ETC., FOR TRAFFIC CONTROL AND SITE SAFETY. ALL WORK SHALL BE DONE IN ACCORDANCE WITH OSHA REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH OSHA REQUIREMENTS.
6. REMOVE STUMPS AND BRUSH FROM SITE, OR CHIP AND USE DURING LANDSCAPING. DO NOT BURY STUMPS ON SITE.
7. THE WORK SHALL BE DONE IN CONFORMANCE WITH THE PLANS UNLESS CHANGES HAVE BEEN APPROVED IN WRITING BY THE DESIGN ENGINEER PRIOR TO THE WORK BEING DONE.
8. ALL DISTURBED AREAS SHALL BE MULCHED AND SEEDED AS SOON AS POSSIBLE.
9. AREAS OF ASPHALT PAVEMENT THAT ARE DISTURBED BY THE CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED IN ACCORDANCE WITH THE ASPHALT TRENCH REPAIR DETAIL. THE FINISHED GRADE OF ASPHALT PAVING SHALL BLEND TO EXISTING GRADE AND THE EDGE OF THE CONCRETE PAVEMENT SMOOTHLY WITH NO SLOPES EXCEEDING 4%.
10. A MINIMUM OF 6" OF CRUSHED STONE MUST BE INSTALLED UNDER ALL EXTERIOR PORCHES AND STAIRS.

EARTHWORK & GRADING:

11. GRADE AWAY FROM BUILDING WALLS AT 2% MINIMUM (TYPICAL).
12. PROPOSED EARTH SLOPES SHALL BE NO STEEPER THAN 5:1 (HORZ.:VERT.), UNLESS OTHERWISE DEPICTED ON SITE PLAN.
13. GENERAL FILL BEYOND PAVED AREAS SHALL BE FREE OF BRUSH RUBBISH, STUMPS. FILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 8" IN THICKNESS. THE DRY DENSITY AFTER COMPACTION SHALL NOT BE LESS THAN 95 % OF THE STANDARD PROCTOR TEST AND DONE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM D698. AFTER COMPACTING, THE FILL SHALL BE 4" BELOW THE REQUIRED GRADE AS SHOWN ON THE PLAN.
14. AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, THE SUBGRADE SHALL BE LOOSENED BY SCARIFYING TO A DEPTH OF AT LEAST 2" TO ENSURE BONDING OF THE TOPSOIL AND SUBSOIL.
15. FILL OR TOPSOIL SHALL NOT BE PLACED NOR COMPACTED WHILE IN A FROZEN OR MUDDY CONDITION OR WHILE SUBGRADE IS FROZEN.
16. ALL EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

SEDIMENT & EROSION CONTROLS:

17. THE CONTRACTOR SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND SHALL HAVE THEM INSPECTED AND APPROVED BY THE SITE ENGINEER PRIOR TO ANY LAND DISTURBANCE. MINOR SEDIMENT CONTROL DEVICE LOCATION ADJUSTMENT MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE SITE ENGINEER.
18. THE CONTRACTOR SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURES WITHOUT PRIOR PERMISSION FROM THE SITE ENGINEER.
19. THE CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO PUBLIC OR PRIVATE ROADS. ALL MATERIALS DEPOSITED ONTO SUCH ROADS SHALL BE REMOVED AS SOON AS POSSIBLE.
20. THE CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN AN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIMES AS THEY REMOVED WITH PRIOR PERMISSION FROM THE SITE ENGINEER.
21. ALL DISTURBED AREAS WITH A SLOPE STEEPER THAN 3:1 SHALL BE STABILIZED WITH SOD OR SEED AND ANCHORED STRAW MULCH OR OTHER APPROVED STABILIZATION MEASURE, AS SOON AS POSSIBLE BUT NO LATER THAN 5 CALENDAR DAYS.
22. SEDIMENT TRAPS AND BASINS SHALL NOT BE CONSTRUCTED WITHIN 25' OF AN EXISTING FOUNDATION OR ONE THAT IS UNDER CONSTRUCTION.
23. SEDIMENT REMOVED FROM TRAPS, SILTATION FENCES OR BASINS SHALL BE PLACED AND STABILIZED IN APPROVED AREAS BUT NOT WITHIN A FLOODPLAIN, WETLANDS OR TREE-SAVE AREAS.
24. ALL WATER REMOVED FROM EXCAVATED AREAS SHALL BE PASSED THROUGH APPROVED DEWATERING PRACTICES OR PUMPED TO A SEDIMENT BASIN PRIOR TO DISCHARGE TO A FUNCTIONAL STORM DRAIN SYSTEM OR TO STABLE GROUND SURFACE.
25. PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES THE CONTRACTOR SHALL STABILIZE AND HAVE ESTABLISHED PERMANENT STABILIZATION FOR ALL DISTURBED AREAS USING SOD OR AN APPROVED SIX MIXTURE. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON MUST BE STABILIZED WITH PERMANENT GROWTH AS SOON AS POSSIBLE. WHEN PROPERTY IS BROUGHT TO FINISHED GRADES DURING THE WINTER MONTHS WHEN PERMANENT STABILIZATION IS IMPRACTICAL THEN AN APPROVED TEMPORARY STABILIZATION SHALL BE DONE UNTIL THE SPRING MONTHS WHERE PERMANENT STABILIZATION IS POSSIBLE.

SEWAGE DISPOSAL SYSTEM NOTES:

1. THE PROPOSED SEWAGE DISPOSAL SYSTEMS SHALL CONFORM TO SECTIONS 19-13-B103A TO 19-13-B103F OF THE CONNECTICUT STATE HEALTH CODE.
2. THE PROPOSED SOIL LINES SHALL BE AS DEPICTED ON THE PLAN.
3. THE PROPOSED SEPTIC TANK SHALL BE A TWO-COMPARTMENT TANK. THE TANK SHALL BE WATERTIGHT AND BE SO CERTIFIED BY THE MANUFACTURER. THE SEPTIC TANK SHALL BE AS MANUFACTURED BY EASTERN PRECAST, OR EQUIVALENT AS APPROVED BY THE ENGINEER.
4. TO PREVENT LEAKAGE, THE CONTRACTOR SHALL MORTAR ALL INLET AND OUTLET PIPES FROM THE SEPTIC TANK AND DISTRIBUTION BOXES ONCE PIPES HAVE BEEN INSTALLED.
5. ALL SOLID EFFLUENT DISTRIBUTION PIPES SHALL BE 4" PVC PLASTIC PIPE (ASTM D3034) SDR-35 WITH RUBBER GASKET, BELL AND SPIGOT.
6. ALL PERFORATED EFFLUENT DISTRIBUTION PIPES SHALL BE 4" PERFORATED PVC PLASTIC PIPE (ASTM D2729) WITH BELL AND SPIGOT, NO GASKET.
7. ALL DISTRIBUTION BOXES SHALL BE AS MANUFACTURED BY EASTERN PRECAST OR AN APPROVED EQUAL.
8. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL STAKE THE AREA OF THE PROPOSED SEWAGE DISPOSAL SYSTEM AND THE ADJACENT PROPERTY LINES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE WILTON HEALTH DEPARTMENT WHEN STAKING HAS BEEN COMPLETED SO THAT AN INSPECTION OF THE STAKING CAN BE MADE.
9. AFTER THE SEWAGE DISPOSAL SYSTEM HAS BEEN INSTALLED ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION OR GRADE AS SHOWN ON THE PLAN, TOPSOILED, FINE RAKED AND SEEDED.
10. THIS DESIGN CONFORMS TO APPLICABLE CODES AND ACCEPTED PRACTICE. NO OTHER WARRANTY IS EXPRESSED OR IMPLIED.
11. THE SEPTIC DESIGN DOES NOT ACCOUNT FOR LARGE TUBS WITH CAPACITY OVER 99 GALLONS.
12. THE RECORD ENGINEER MUST PREPARE THE "SEPTIC AS-BUILT PLAN", THUS THE ENGINEER MUST BE NOTIFIED TO INSPECT ALL ASPECTS OF THE NEW SEPTIC SYSTEM PREPARATION AND INSTALLATION.

SELECT FILL NOTES:

1. SELECT FILL PLACED WITHIN AND ADJACENT TO LEACHING SYSTEM AREAS SHALL BE COMPRISED OF CLEAN SAND, OR SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE APPROVED BY THE DESIGN ENGINEER.
2. SELECT FILL EXCEEDING 6% PASSING THE #200 SIEVE BASED ON A WET SIEVE TEST CANNOT BE APPROVED BY THE DESIGN ENGINEER. THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE THREE (3) INCH SIEVE.
3. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE. NOTE: THIS IS THE GRAVEL PORTION OF THE SAMPLE.
4. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED.
5. THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA:

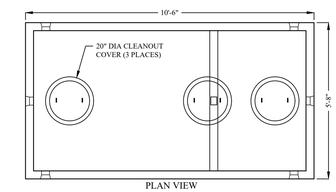
PERCENT PASSING SIEVE SIZE

	WET SIEVE	DRY SIEVE
#4	100	100
#10	70 - 100	70 - 100
#40	10 - 50 *	10 - 75
#100	0 - 20	0 - 5
#200	0 - 6	0 - 2.5

* PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.
SELECT FILL THAT DOES NOT MEET THE DRY SIEVE GRADATION CRITERIA BUT MEETS THE WET SIEVE GRADATION CRITERIA IS ACCEPTABLE. SIEVE TESTING OF SELECT FILL IS REQUIRED FOR LARGE (2,000 GPD OR GREATER) SYSTEMS WHENEVER THE LEACHING SYSTEM IS LOCATED TOTALLY IN SELECT FILL. THE LOCAL DIRECTOR OF HEALTH MAY REQUIRE SIEVE TESTING OF SELECT FILL ON LESS THAN 2,000 GPD SEWAGE SYSTEMS IN ACCORDANCE WITH PHC SECTION 19-13-B103E (D) (6).

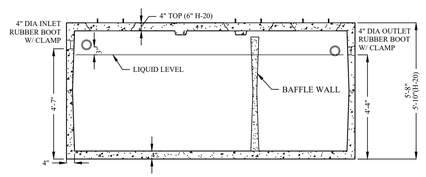
REVISED: 01/25/2024 - Added wetlands line per updated survey with adjustments to the septic reserve area.
REVISED: 12/11/2023 - Added sewer line per comments from the Town of Wilton Health Department.

GREENLEACH FILTER - GLF 12.72
N.T.S.



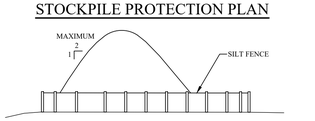
PLAN VIEW

STOCKPILE PROTECTION PLAN

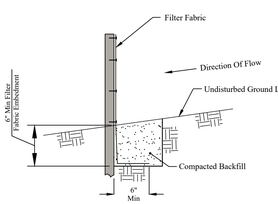


NOTES:
1. CONCRETE 4,000 PSI MINIMUM STRENGTH AFTER 28 DAYS
2. DESIGN CONFORMS WITH 310 CMR. 15.00, DEP TITLE 5 REGS, FOR SEPTIC TANKS
3. ALL REINFORCEMENT PER ASTM C1227
4. TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN
5. TANKS ALSO AVAILABLE IN H-20 LOADING

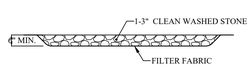
1500 GALLON SEPTIC TANK
N.T.S.



SECTION A
N.T.S



FILTER FABRIC FENCING
N.T.S.



MUD-TRACKING PAD
N.T.S.

SITE DEVELOPMENT PLAN

49 LIBERTY STREET

WILTON, CT

Prepared for

SIGNATURE POOLS, INC.

STATE OF CONNECTICUT JIMMY KOUSIDIS 24616 LICENSED PROFESSIONAL ENGINEER

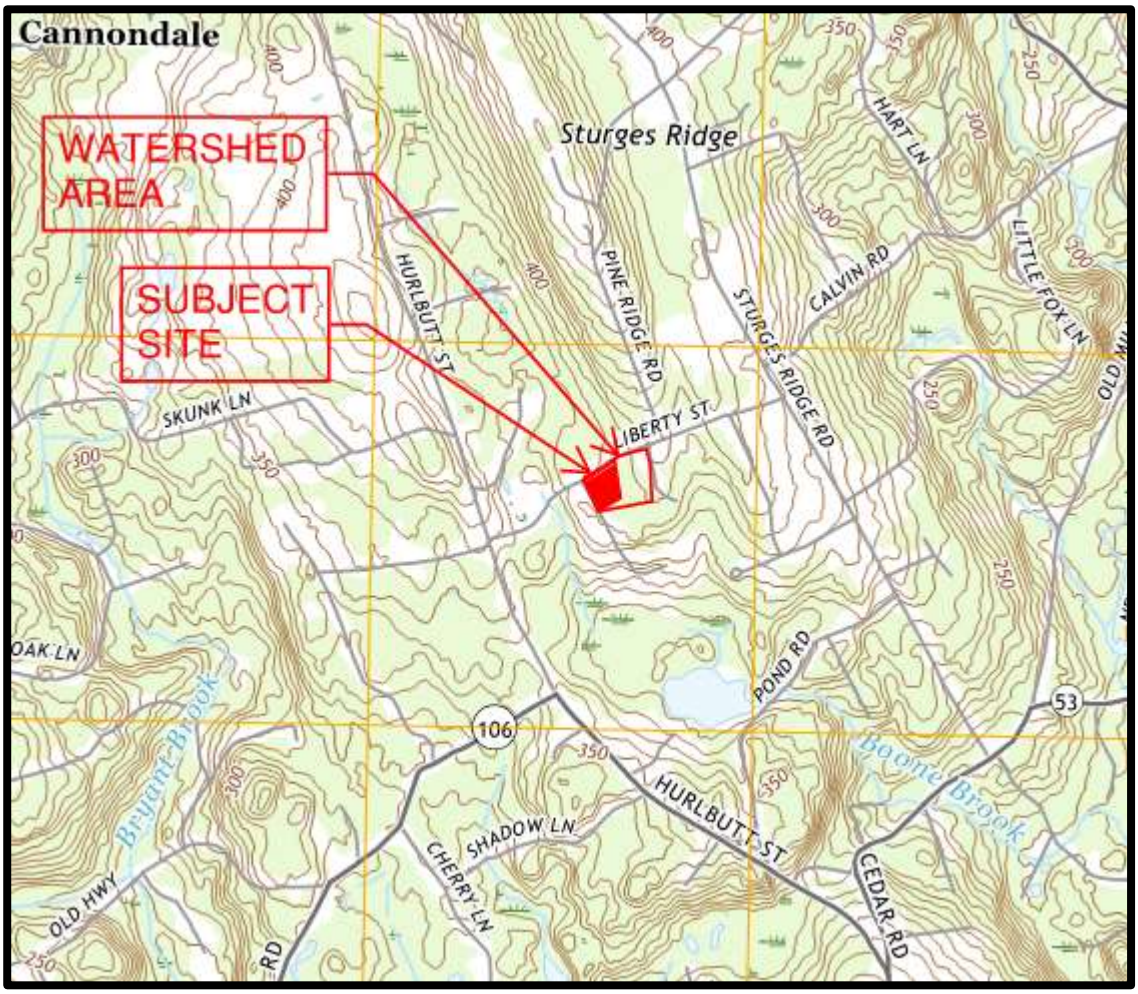
SCALE: 1" = 20' (0 20 40)

DATED: 11/22/2023
JOB NO: SP23-13
SHEET NO: 1 of 1

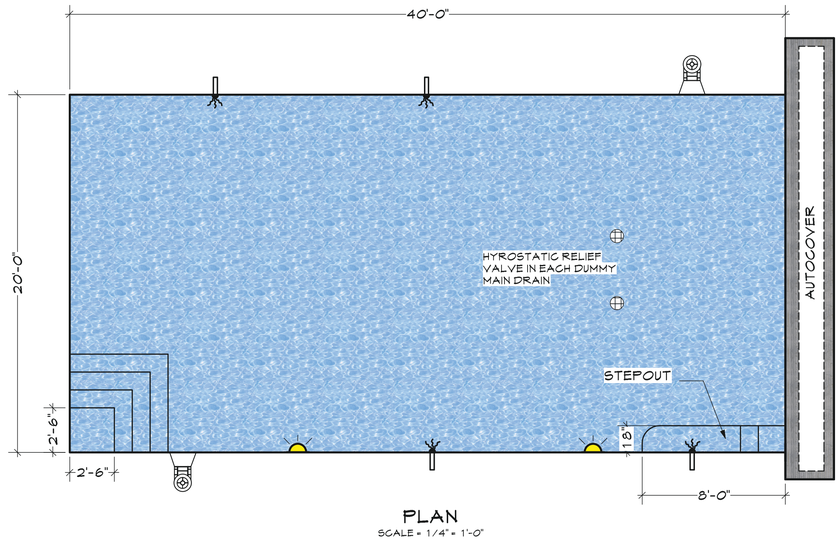
KOUSIDIS ENGINEERING, LLC
Land Development Consultants and Site Design
1525 Black Rock Turnpike, Fairfield, CT 06825 P: 203-557-8943
E: jim@kousidisengineering.com Web: www.kousidisengineering.com

Kousidis Engineering, LLC
Land Development Consultants & Site Design

WATERSHED AREA DRAINING TO WETLANDS LOCATED NEAR 49 LIBERTY STREET

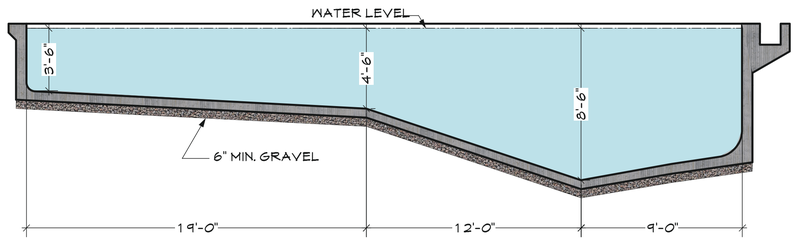


NOT TO SCALE



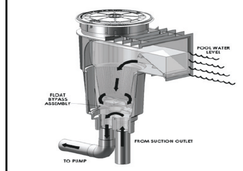
PLAN

SCALE = 1/4" = 1'-0"



SECTION

SCALE = 1/4" = 1'-0"



VGB 2008 UL WATERWAY 640-4720V

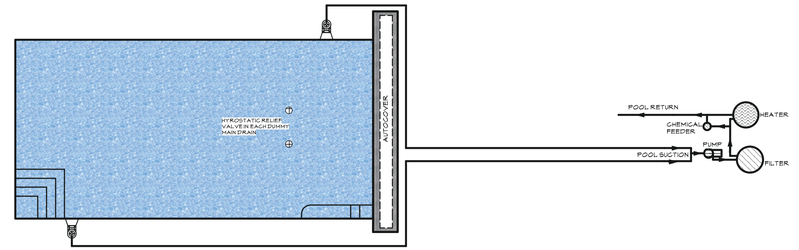
SPECIFICATIONS:

- Total Open Area: 62.4 sq. in.
- Frame Size: 13.250" x 13.250"
- Floor Flow Rate: 356 GPM @ 1.83 ft/sec
- Wall Flow Rate: 280 GPM @ 1.44 ft/sec
- Flow Rate @ 1.5 ft/sec: 292 GPM

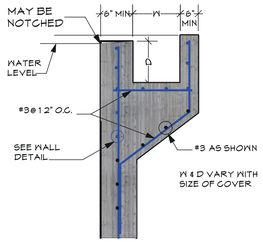
VGB 2008 UL WATERWAY 640-1800V

SPECIFICATIONS:

- Total Open Area: 14.8 sq. in.
- Frame Size: 8" Round
- Floor Flow Rate: 153 GPM @ 2.72 ft/sec
- Wall Flow Rate: 96 GPM @ 1.73 ft/sec
- Flow Rate @ 1.5 ft/sec: 68 GPM



POOL/SPA PLUMBING SCHEMATIC

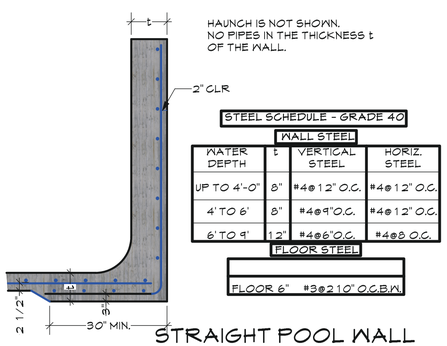


TYPICAL AUTOCOVER DETAIL

NTS

ALL ELECTRICAL COMPONENTS MUST BE MINIMIM 5' FROM POOL WATER (PUMP, HEATER, JUNCTION BOXES, ETC.)

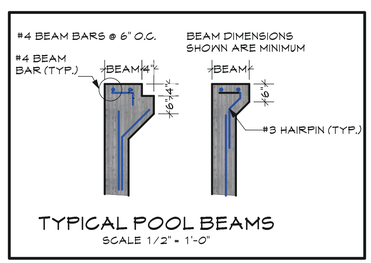
ALL METAL WITHIN 5' OF POOL WATER MUST BE BONDED TO POOL STEEL



STRAIGHT POOL WALL

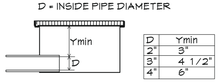
SMALL RADIUS BETWEEN WALL AND FLOOR

NTS



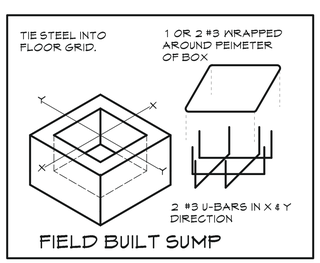
TYPICAL POOL BEAMS

SCALE 1/2" = 1'-0"

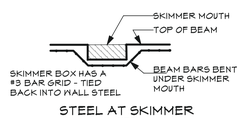


D	Ymin
2"	3"
3"	4 1/2"
4"	6"

FIELD BUILT SUMP



FIELD BUILT SUMP



STEEL AT SKIMMER

NTS

-3000 PSI CONCRETE
--GRADE 40 STEEL
TIE REBAR AT ALL INTERSECTIONS
-REBAR IN STEPS AND BENCHES IS OPTIONAL. IT IS USED AS A FORMING DEVICE AND HELPS TO REDUCE TEMPERATURE AND SHRINKAGE CRACKS. IT IS RECOMMENDED.
-WOOD BLOCKING TO HOLD STEEL WALL GRID OUT, SHOULD BE IN PLACE BEFORE STEEL INSPECTION.

CONNECTICUT CODE

2022 CONNECTICUT STATE BUILDING CODE
2021 INTERNATIONAL SWIMMING POOL AND SPA CODE

NEC 2020

NOTES:

1. LIGHTING W.P. RECEPTACLES, CIRCULATION PUMP(S), HEATER(S), CHEMICAL FEEDER(S) AND ALL OTHER ELECTRICALLY POWERED EQUIPMENT SHALL BE MANUFACTURER APPROVED FOR SPA & SWIMMING POOL USE & SHALL BE WIRED & GROUNDED BY A LICENSED ELECTRICIAN IN ACCORDANCE WITH THE MOST STRINGENT REQUIREMENTS OF THE MANUFACTURER, GOVERNING LOCAL ELECTRIC CODE AND NFPA-70 ELECTRICAL CODE (NEC) LASTEST EDITION.

2. THE POOL SHALL BE WIRED & GROUNDED IN STRICT ACCORDANCE WITH NFPA-70 AND THE LOCAL ADOPTED ELECTRICAL CODE.

3. ELECTRICAL EQUIPMENT AND MATERIAL SHALL BE LISTED BY UNDERWRITERS LABORATORIES (UL - LISTED) FOR THE USE INTENDED. PANEL ENCLOSURES FOR OUTDOOR USE SHALL BE NEMA 2 IF EXPOSED TO, PRECIPITATION ONLY, OR NEMA 4 IF EXPOSED TO CONCENTRATED SPRAY.

4. CONCRETE CYLINDER STRENGTH SHALL BE A MINIMUM OF 3000 PSIG AFTER 28 DAYS. REINFORCING STEEL SHALL BE GRADE 40, UNLESS OTHERWISE NOTED.

5. THE ENGINEER HAS NOT REVIEWED SUBSURFACE CONDITIONS, UNLESS NOTED IN THESE PLANS. THE ENGINEER SHALL BE INDEMNIFIED AGAINST ALL DAMAGES ARISING FROM SUBSURFACE CONDITIONS.

6. THE ENGINEER IS RESPONSIBLE FOR THE CONTENTS OF THIS DRAWING AND HAS NOT REVIEWED ZONING CRITERIA AND PERMITTING REQUIREMENTS AND SHALL BE INDEMNIFIED AGAINST ALL DAMAGES ARISING FROM NONCOMPLIANCE WITH ZONING AND PERMITTING REQUIREMENTS.

7. THE OWNER SHALL BE RESPONSIBLE FOR FENCING THE POOL AREA IN ACCORDANCE WITH PREVAILING REGULATIONS.

CT LIC. 10983 / NY LIC. 073937-1

SYMBOL LEGEND
JET RETURN
RETURN INLET
LIGHT
MAIN DRAIN
SKIMMER

SIGNATURE POOLS

SIGNATURE POOLS, INC.
2 REYNOLDS STREET
NORWALK, CT 06855

203-866-7665
203-866-7661 FAX

MOON RESIDENCE
49 LIBERTY STREET
WILTON, CT

SCALE: AS SHOWN
DATE: 04/27/07
FILE: MOON 49 LIBERTY STREET 112823

ORIGINAL
STATE OF CONNECTICUT
No. 10983
REGISTERED