

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



TOWN HALL
238 Danbury Road
Wilton, Connecticut 06897

APPLICATION FOR A MINOR 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: _____	Agent (if applicable) _____
Address _____ _____	Address _____ _____
Telephone _____	Telephone _____
Email _____	Email _____

PROPERTY INFORMATION:

Property Address _____	Site Acreage _____
Acres of altered Wetlands On-Site _____	Cu. Yds. of Material Excavated _____
Linear Feet of Watercourse _____	Cu. Yds. of Material to be Deposited _____
Linear Feet of Open Water _____	Acres of altered upland buffer _____
Sq. Ft. of proposed and/or altered impervious coverage _____	Sq. Ft. of disturbed land in regulated area _____

APPLICATION REQUIREMENTS:

Is The Site Within a Public Water Supply
Watershed Boundary? NO _____ YES* _____

Is The Site Within 500 Feet of a Town Boundary?
NO _____ 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: _____

In addition, the applicant shall provide three (3) collated paper 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**
- () D. Names and addresses of adjoining property owners

****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: _____



Evans Associates
Environmental Consulting, Incorporated



WETLAND DELINEATION REPORT

DATE: October 8, 2021
PROPERTY: Property at 38 Kingdom Ridge Road
Town of Wilton, Fairfield County, Connecticut
REPORT BY: Evans Associates Environmental Consulting, Inc.
CONDITIONS: 64°F, Mostly Cloudy

INTRODUCTION

Wetlands on the above-captioned property were evaluated and delineated on October 6, 2021 by a Professional Wetland Scientist from Evans Associates Environmental Consulting, Inc. (Evans Associates). The property is an approximately 3.14-acre residential parcel located to the north of Kingdom Ridge Road and to the west of Azalea Lane in the Town of Wilton, Connecticut. There is an existing residence and driveway on the site. The wetland field delineation methodology is presented below, followed by the existing site conditions and wetland regulatory jurisdictions.

WETLAND FIELD DELINEATION

Wetlands on the site were delineated in accordance with the Wilton Inland Wetlands and Watercourses Regulations and the technical criteria in the updated 1987 Army Corps of Engineers (ACOE) Wetland Delineation Manual (TR-Y-87-1). One wetland was identified on site; the wetland/upland boundary was flagged (to be survey located) with sequentially numbered, orange ribbon displaying the words "Wetland Boundary" and numbered A-1 through A-7 beginning near the western property line and proceeding to the east and north.

EXISTING SITE CONDITIONS

The property is an approximately 3.14-acre residentially developed parcel. The wetland is located at the base of a wooded hillside, and continues off site to the west and north. The existing house on the property is in disrepair, and the front yard is heavily overgrown with saplings and seedlings for the surrounding tree canopy.

162 Falls Road
Bethany, CT 06524
Tel: 203.393.0690

Wetlands

The wetland located in the northwestern portion of the property is a depressional wetland surrounded by bedrock-controlled knolls, and it appears that the primary source of water for this wetland is groundwater discharge and stormwater runoff from the surrounding uplands. An active spring was noted on the eastern side of the wetland, near wetland flag A-6.

Vegetation, Soils and Hydrology

Vegetation in the wetland includes both herbaceous species such as clearweed (*Pilea pumila*), various sedges (*Carex spp.*), jewelweed (*Impatiens capensis*), sensitive fern (*Onoclea sensibilis*), lady fern (*Athyrium filix-femina*), cinnamon fern (*Osmundastrum cinnamomeum*) and skunk cabbage (*Symplocarpus foetidus*) and mature trees such as red maple (*Acer rubrum*), American elm (*Ulmus americana*), yellow birch (*Betula alleghaniensis*), and swamp white oak (*Quercus bicolor*). The dominant shrubs in the wetland were sweet pepperbush (*Clethra alnifolia*) and winterberry (*Ilex verticillata*).

Soils in the wetland are mapped as Catden and Freetown soils, both of which are very poorly drained muck soils. The primary source of water for this wetland is interception of the local groundwater, which was actively discharging from a spring on the east side of the wetland.

Uplands

The uplands on this property are almost entirely wooded, except for the landscaped areas associated with the existing residence.

Vegetation and Soils

Upland vegetation consisted of sugar maple (*Acer Saccharum*), tulip poplar (*Liriodendron tulipifera*), white oak (*Quercus alba*), American beech (*Fagus grandifolia*), black birch (*Betula lenta*), black oak (*Quercus velutina*), and red oak (*Quercus rubra*), with witch hazel (*Hamamelis virginiana*), low bush blueberry (*Vaccinium angustifolium*) and mountain laurel (*Kalmia latifolia*) in the shrub layer. Wisteria vines were present near the house, but had not spread to the surrounding woodlands. Soils on the wooded uplands are mapped as Canton and Charlton fine sandy loams, very stony.

WETLAND REGULATORY JURISDICTIONS

Town of Wilton Wetland Regulations

The Town of Wilton regulates wetlands based on the presence hydric soils including those that are poorly drained, very poorly drained, alluvial or floodplain. The Town also regulates an adjacent area extending 100 feet from the wetland boundary.

Federal Army Corps of Engineers Wetland Regulations

The United States ACOE is the federal agency that regulates wetlands under the Clean Water Act. The ACOE regulates wetlands based on the presence of hydrophytic vegetation, hydric soils, and wetland hydrology as defined in the 1987 ACOE Wetland Delineation Manual (TR Y 87 1) as modified by the 2012 Regional Supplement for the Northcentral and Northeast Region (TR-12-1). The ACOE regulates wetlands that are associated with hydrologic features that are connected to interstate waters. There is no wetland buffer regulated under federal jurisdiction.



Interior of the wetland, looking north and west near flag A-6. Photo taken 10-6-2021



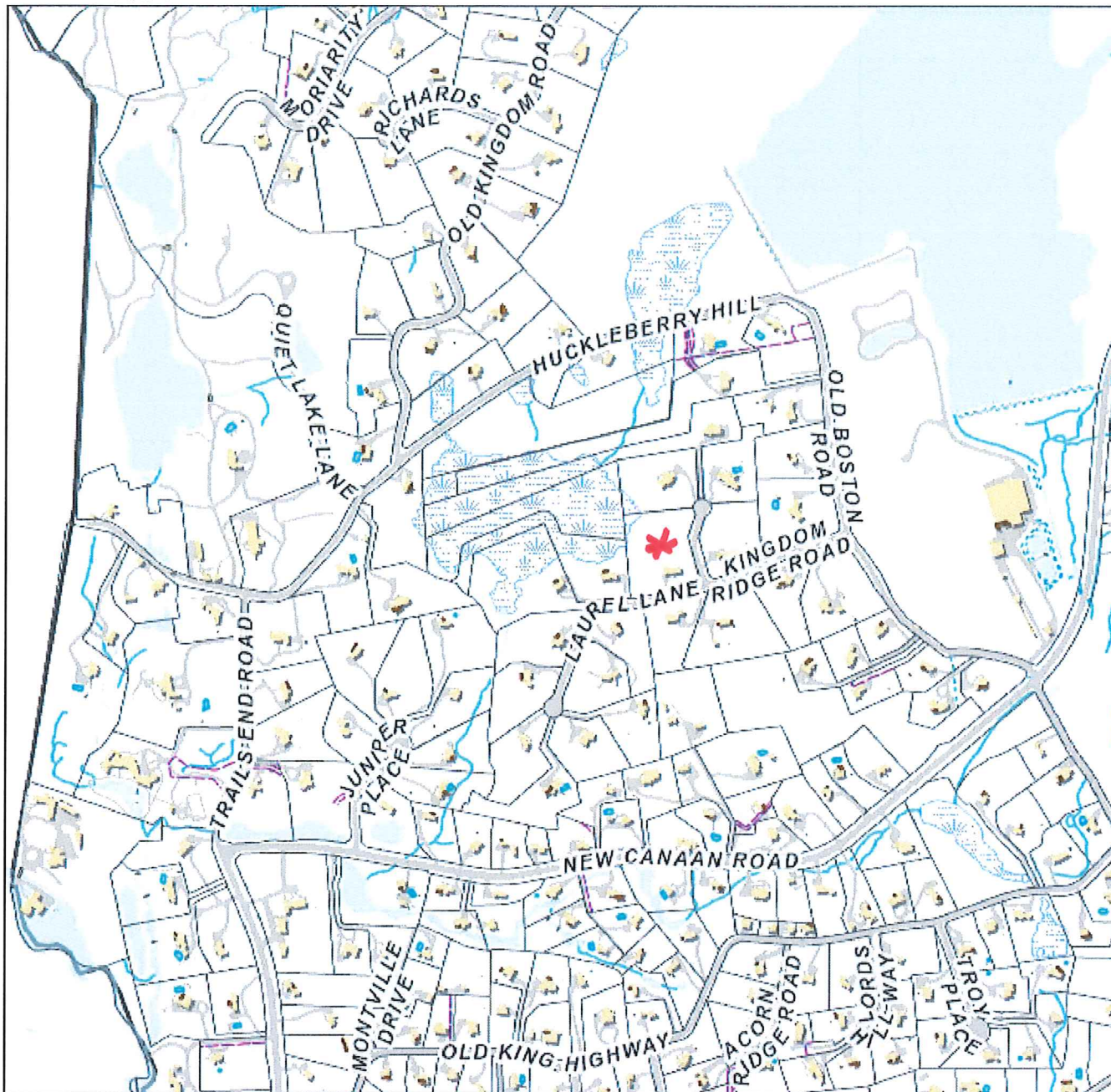
Upland hillside adjacent to wetland, looking east. Photo taken 10-6-2021

Town of Wilton

Geographic Information System (GIS)



Date Printed: 4/1/2022



MAP DISCLAIMER - NOTICE OF LIABILITY

This map is for assessment purposes only. It is not for legal description or conveyances. All information is subject to verification by any user. The Town of Wilton and its mapping contractors assume no legal responsibility for the information contained herein.

Zoning Effective: July 28, 2017

Planimetrics Updated: 2014

Approximate Scale: 1 inch = 800 feet



124-13

PILLAI VIN & ALISA

38 KINGDOM RIDGE RD

WILTON CT 06897

124-14

WOHLBERG DANIEL & MARIELLE

15 AZALEA LA

WILTON CT 06897

137-71-1

ROSSEAU TIMOTHEE &

50 KINGDOM RIDGE RD

WILTON CT 06897

124-19-1

ULEHLA ANTHONY R JR

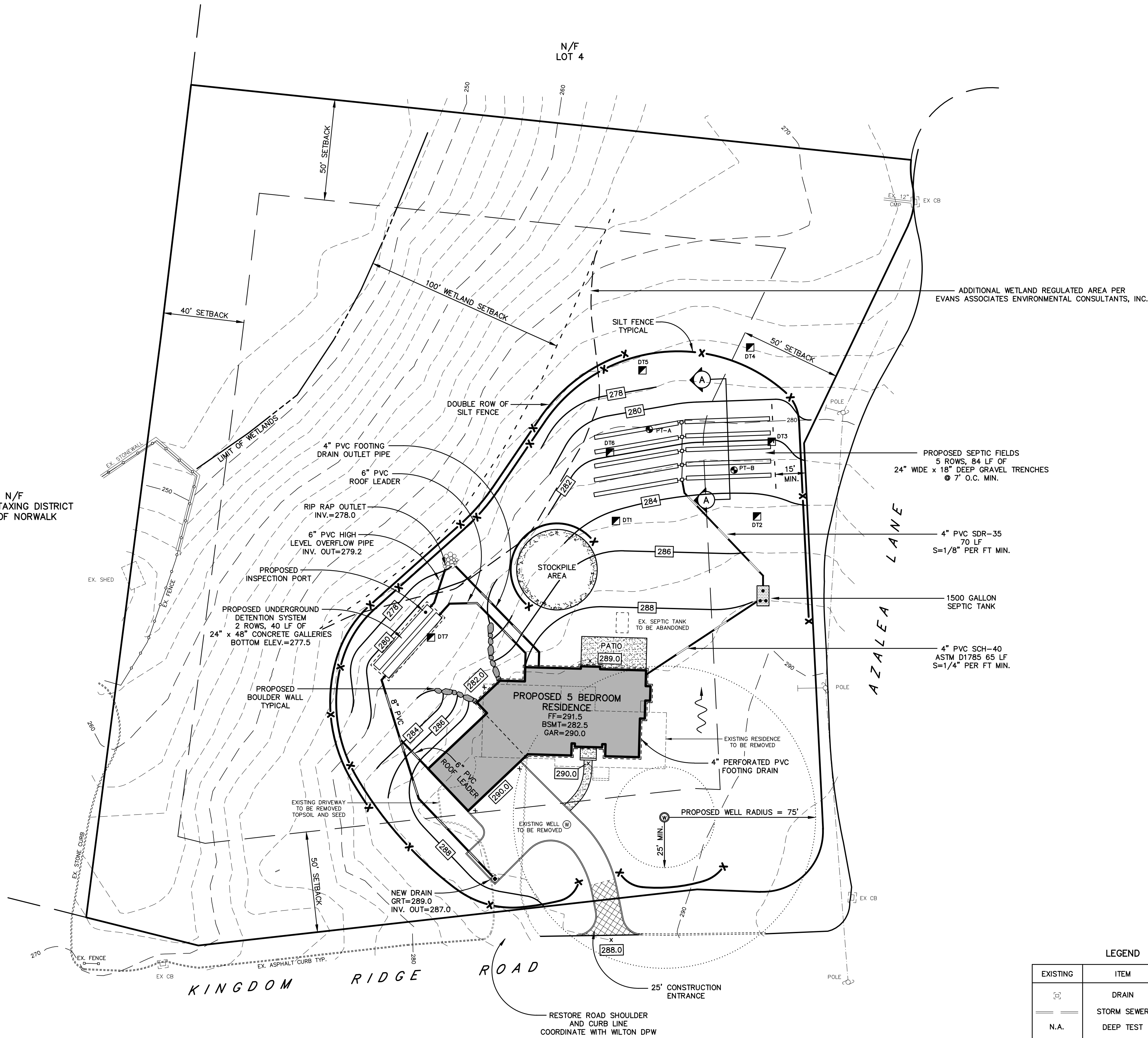
17 AZALEA LA

WILTON CT 06897

NOTES:

- EXISTING PROPERTY LINES, UTILITIES, STRUCTURES AND TOPOGRAPHIC INFORMATION SHOWN HEREON ARE TAKEN FROM THE "WETLAND LOCATION OF PROPERTY" PREPARED FOR JAMES BONIELLO BY LINK LAND SURVEYORS P.C. OF MAHOPAC, NY, DATED OCTOBER 19, 2021 AND LAST REVISED DECEMBER 14, 2021.
- INLAND WETLANDS SHOWN ON THE SUBJECT PROPERTY WERE FIELD LOCATED BY EVANS ASSOCIATES ENVIRONMENTAL CONSULTING, INC. ON OCTOBER 8, 2021.
- LOCATIONS OF EXISTING UNDERGROUND STRUCTURES AND UTILITIES INDICATED HEREON ARE TAKEN FROM DESIGN DRAWINGS, FIELD OBSERVATIONS, AND OTHER SOURCES OF INFORMATION AND ARE NOT TO BE CONSTRUED AS AN ACCURATE "AS-BUILT" SURVEY. THE CONTRACTOR SHALL EXCAVATE TEST HOLES, CONTACT "CALL BEFORE YOU DIG", AND PERFORM WHATEVER ADDITIONAL VERIFICATION NECESSARY TO VERIFY THE EXISTING INFORMATION. THE PROJECT ENGINEER SHALL BE PROMPTLY NOTIFIED OF ANY APPARENT CONFLICTS BETWEEN EXISTING UTILITIES AND PROPOSED WORK.
- THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED SEPTIC SYSTEM, STORMWATER MANAGEMENT, UTILITIES, DRIVEWAY, HARDSCAPE, SITE GRADING, AND SOIL EROSION CONTROLS ASSOCIATED WITH THE CONSTRUCTION OF THE NEW HOUSE.
- ALL CONSTRUCTION SHALL CONFORM TO THE TOWN OF WILTON STANDARD DETAILS AND SPECIFICATIONS. IN THE ABSENCE OF LOCAL STANDARDS, THE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION SPECIFICATION FORM 818, LATEST REVISION.
- SOIL AND EROSION CONTROL MEASURES SHOWN HEREON SHALL BE PROPERLY INSTALLED PRIOR TO THE START OF CONSTRUCTION, INSPECTED AND REPAIRED WEEKLY AND BEFORE AND AFTER STORM EVENTS, AND MAINTAINED IN FUNCTIONAL CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
- STONE WORK SHALL NOT BE CONSTRUCTED AT THE DRIVEWAY ENTRANCE IN THE TOWN RIGHT-OF-WAY.
- THE EXISTING SEPTIC SYSTEM AND WELL SHALL BE ABANDONED IN CONFORMANCE WITH THE CT PUBLIC HEALTH CODE.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO THE COMMENCEMENT OF THE WORK.

N/F
SECOND TAXING DISTRICT
CITY OF NORWALK



LEGEND

EXISTING	ITEM	PROPOSED
	DRAIN	
	STORM SEWER	
N.A.	DEEP TEST	
N.A.	PERCOLATION TEST	
	CONTOUR	
	SPOT ELEVATION	
N.A.	SILT FENCE	
	TREE TO REMAIN	N.A.
	POLE	N.A.

ELEVATIONS:

GARAGE	:290.0
BASEMENT	:282.5
F.F. HOUSE	:291.5
HOUSE SEWER OUT (INV.)	:287.5
SEPTIC TANK IN (INV.)	:285.75
SEPTIC TANK OUT (INV.)	:285.5
* 1st FIELD (INV. AT DB) (GALLERY BOTTOM)	:282.5 :281.5
* 2nd FIELD (INV. AT DB) (TRENCH BOTTOM)	:281.9 :280.9
* 3rd FIELD (INV. AT DB) (TRENCH BOTTOM)	:281.3 :280.3
* 4th FIELD (INV. AT DB) (TRENCH BOTTOM)	:280.5 :279.5
5th FIELD (INV. AT DB) (TRENCH BOTTOM)	:279.8 :278.8
* PROVIDE 4" OVERFLOW BETWEEN FIELDS	

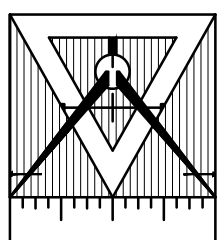
AREA = 3.141 ACRES
MAP 124, LOT 13

THIS DRAWING AND DETAILS ON IT, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF THE ENGINEER AND MAY BE USED FOR THIS SPECIFIC PROJECT AND SHALL NOT BE LOANED, COPIED OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

2	3-31-22	REVISED AND ISSUED FOR MUNICIPAL APPROVAL
1	2-18-22	ISSUED FOR MUNICIPAL APPROVAL
NO.	DATE	REVISIONS AND SUBMISSIONS

SIGNATURE:

DRAWING NO:

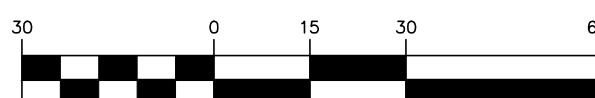


McChord Engineering Associates, Inc.
Civil Engineers and Land Planners
1 Grumman Hill Road
Wilton, CT 06897 (203) 834-0569

PLAN PREPARED FOR
JAMES BONIELLO
GOLDENS BRIDGE, NEW YORK

SEPTIC SYSTEM/SITE DEVELOPMENT PLAN
38 KINGDOM RIDGE ROAD
WILTON, CONNECTICUT

JOB NO: 2233A-1
DRAWN BY: DRS
SCALE: 1" = 30'
DATE: FEBRUARY 18, 2022
CHECKED BY: TSN

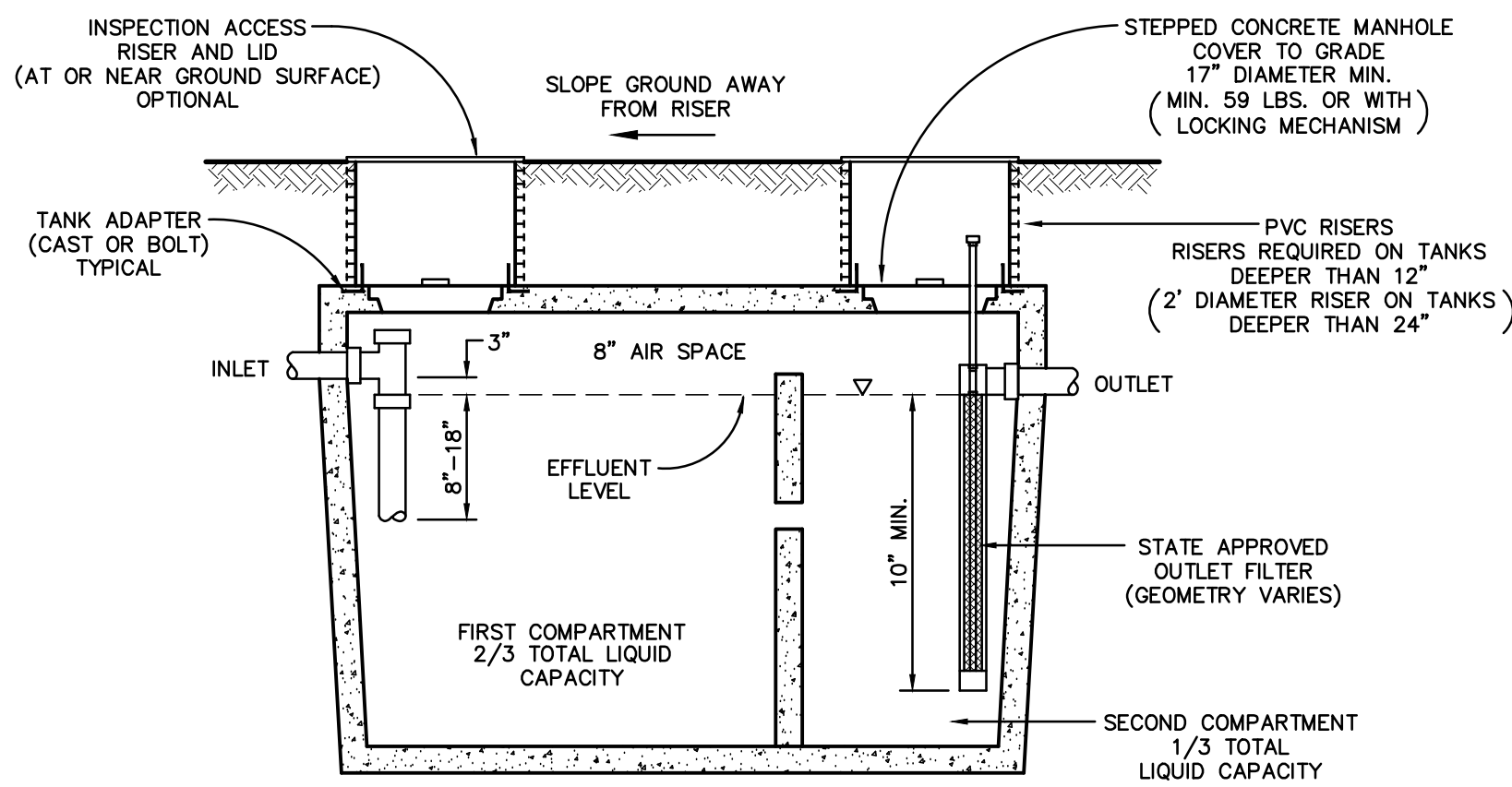


SE1

SHEET 1 OF 2

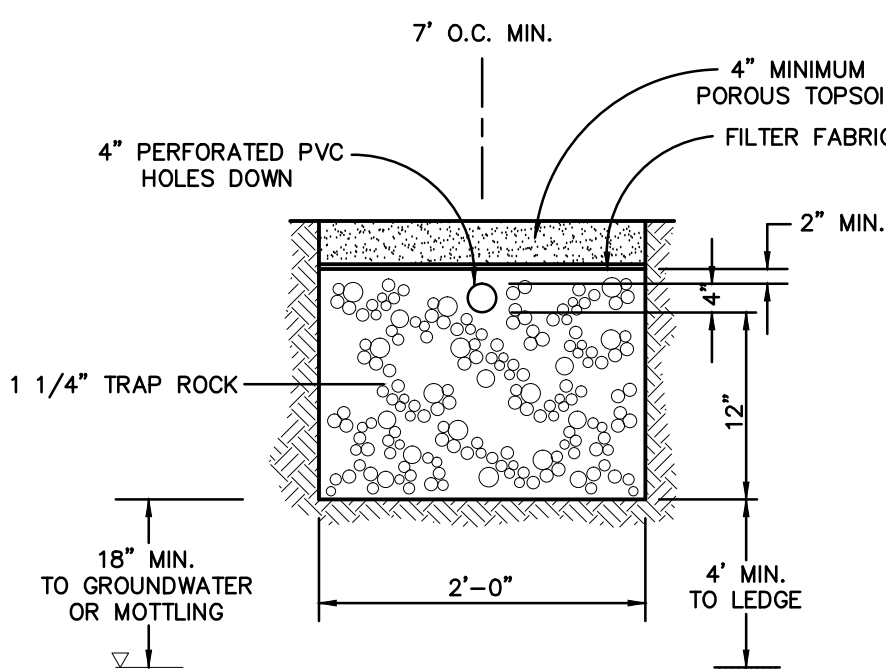
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TYPICAL SEPTIC TANK DETAIL

N.T.S.

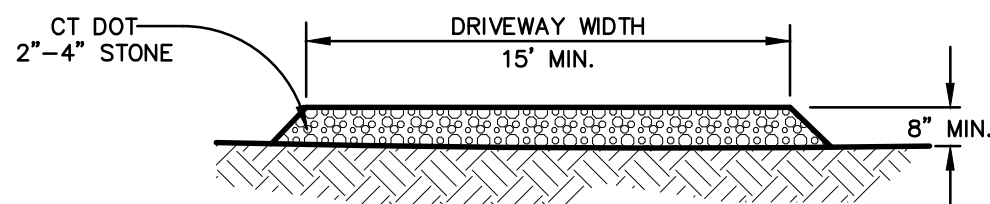
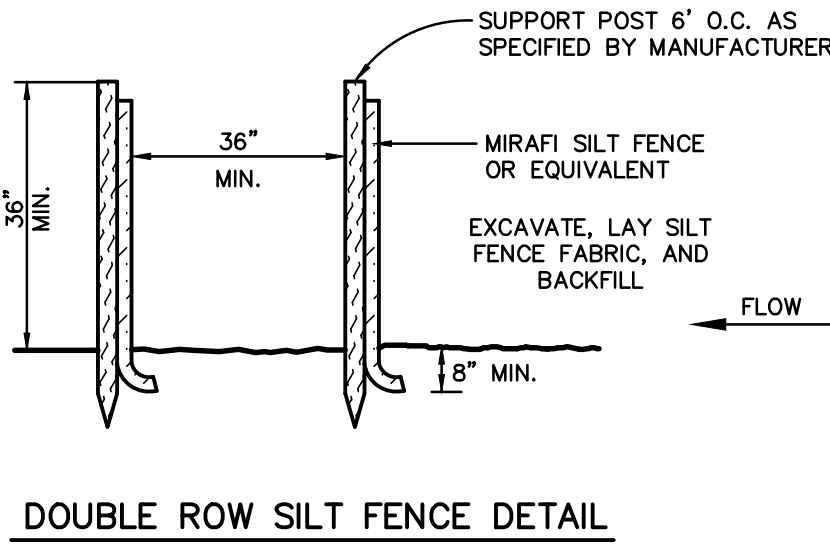
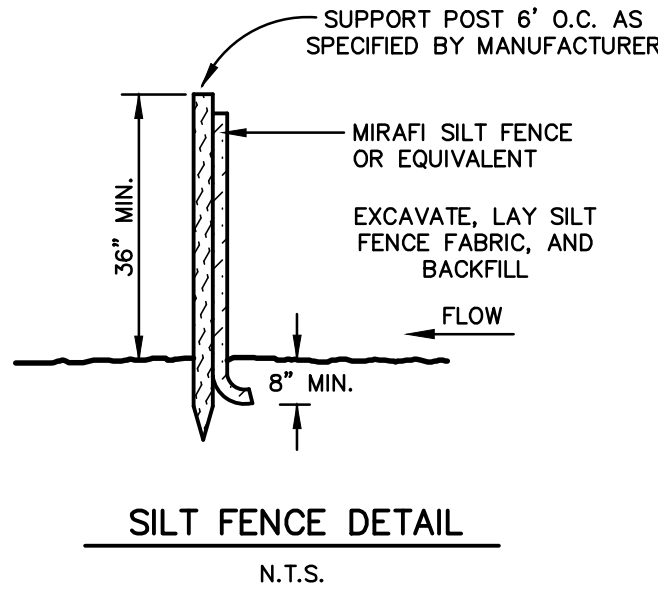
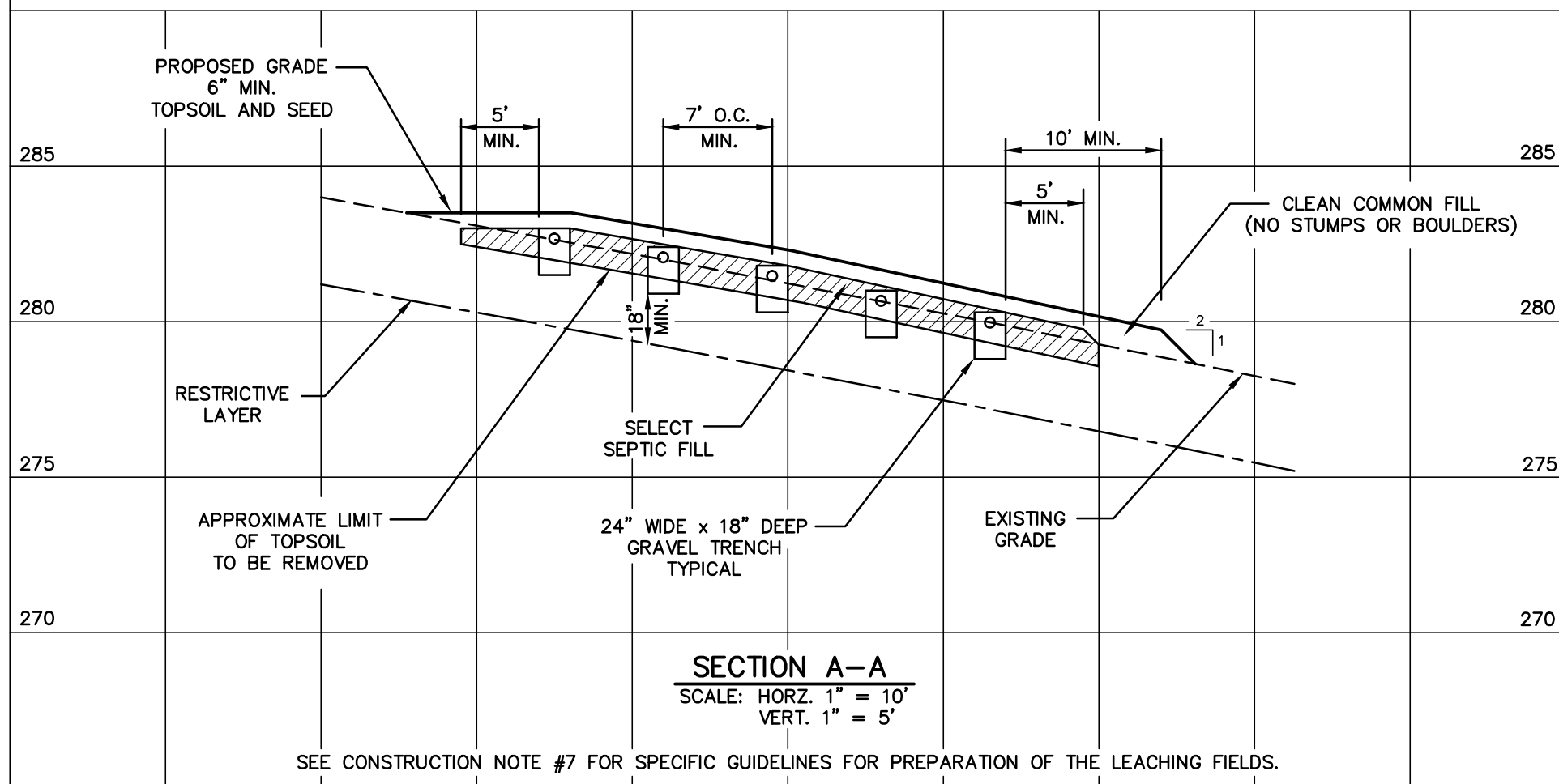


18" x 24" GRAVEL TRENCH

N.T.S.

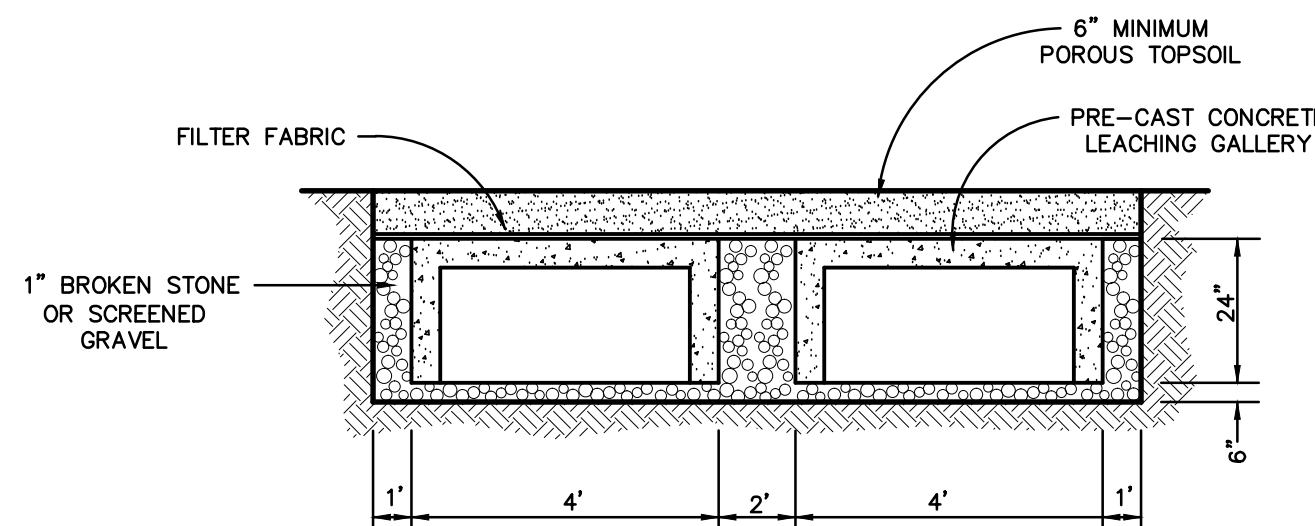
TRENCH #1	TRENCH #2	TRENCH #3
HIGH POINT :282.8	HIGH POINT :282.2	HIGH POINT :281.6
RESTRICTIVE :279.9	RESTRICTIVE :279.3	RESTRICTIVE :278.7
TRENCH BOTTOM :281.5	TRENCH BOTTOM :280.9	TRENCH BOTTOM :280.3
PIPE INVERT :282.5	PIPE INVERT :281.9	PIPE INVERT :281.3
PROPOSED GRADE :283.5	PROPOSED GRADE :282.9	PROPOSED GRADE :282.3

TRENCH #4	TRENCH #5
HIGH POINT :280.8	HIGH POINT :280.1
RESTRICTIVE :277.6	RESTRICTIVE :277.2
TRENCH BOTTOM :279.5	TRENCH BOTTOM :278.8
PIPE INVERT :280.5	PIPE INVERT :279.8
PROPOSED GRADE :281.5	PROPOSED GRADE :280.8



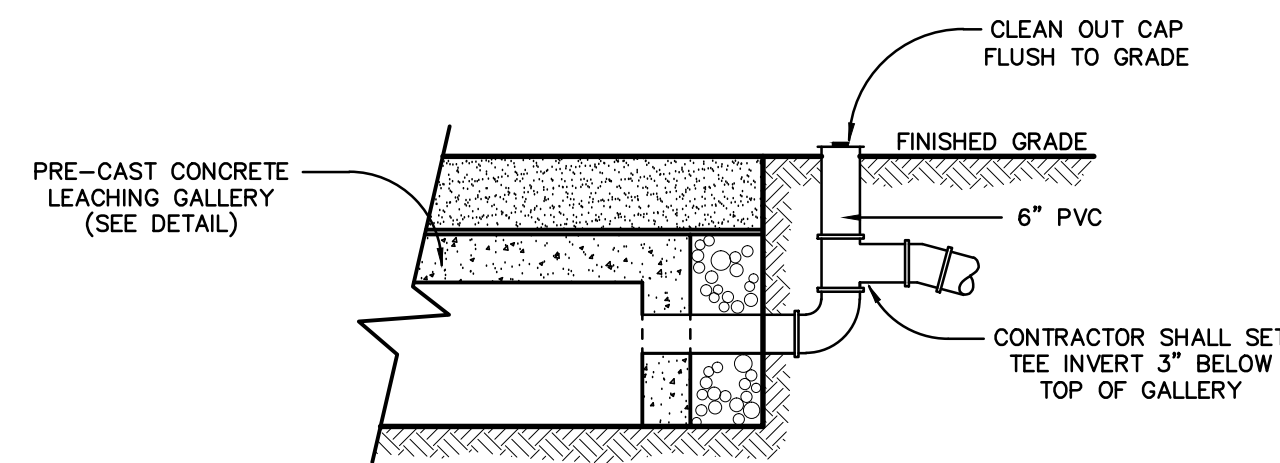
CONSTRUCTION ENTRANCE DETAIL

N.T.S.



24" x 48" UNDERGROUND DETENTION SYSTEM GALLERY DETAIL

N.T.S.



UNDERGROUND DETENTION SYSTEM HIGH LEVEL OVERFLOW OUTLET DETAIL

N.T.S.

DESIGN CRITERIA:

- PERCOLATION RATE: PT-A = 1:20, PT-B = 1:30
 - DESIGN RATE FOR PRIMARY SYSTEM: 1:30
 - DESIGN RATE FOR RESERVE SYSTEM: N/A
- MINIMUM LEACHING SYSTEM SPREAD (MLSS):
 - HYDRAULIC FACTOR (HF)
 - HYDRAULIC GRADIENT = 9.2%
 - DEPTH OF RESTRICTIVE LAYER = 35.7" (AVERAGE DT1 THRU 6)
 - HYDRAULIC FACTOR = 24'
 - FLOW FACTOR (FF): 5 BEDROOM = 2.0
 - PERCOLATION FACTOR (PF): 1:30 = 1.5
 - MINIMUM LEACHING SYSTEM SPREAD = 24' x 2.0 x 1.5 = 72'
 - LEACHING SYSTEM SPREAD PROVIDED = 84'
- SYSTEM DESCRIPTION:
 - NUMBER OF BEDROOMS: 5
 - REQUIRED LEACHING AREA: 1000 SF @ 2.4 SF/LF = 417 LF
 - SYSTEM COMPONENTS: 1500 GALLON SEPTIC TANK AND 420 LF OF 24" WIDE x 18" DEEP GRAVEL TRENCHES.
 - TOTAL FIELDS PROPOSED:
 - PRIMARY SYSTEM: 5 x 84 LF = 420 LF @ 2.4 SF/LF = 1008 SF
 - RESERVE SYSTEM: N/A
- DEPTH OF SYSTEM CONTROL: RESTRICTIVE LAYER @ 35" IN DEEP TEST 2 WILL CONTROL THE DEPTH OF THE SYSTEM.

DEEP TEST AND PERCOLATION TEST DATA:

DEEP TEST 1	DEEP TEST 2	DEEP TEST 3
0"- 7" TOPSOIL 7"-38" ORANGE-BROWN SILTY LOAM 38"-77" GRAY MODERATELY COMPACT SANDY LOAM W/ ROCKS	0"- 6" TOPSOIL 6"-35" ORANGE-BROWN SILTY LOAM 35"-70" GRAY MODERATELY COMPACT SANDY LOAM W/ ROCKS	0"- 3" TOPSOIL 3"-42" ORANGE-BROWN SILTY LOAM 42"-72" GRAY MODERATELY COMPACT SANDY LOAM W/ ROCKS
NO MOTTLING NO GROUNDWATER NO LEDGE RESTRICTIVE @ 38"	NO MOTTLING NO GROUNDWATER NO LEDGE RESTRICTIVE @ 35"	NO MOTTLING NO GROUNDWATER NO LEDGE RESTRICTIVE @ 42"
DEEP TEST 4	DEEP TEST 5	DEEP TEST 6
0"- 5" TOPSOIL 5"-32" ORANGE-BROWN SILTY LOAM 32"-74" GRAY MODERATELY COMPACT SANDY LOAM W/ ROCKS	0"- 5" TOPSOIL 5"-30" ORANGE-BROWN SILTY LOAM 30"-74" GRAY MODERATELY COMPACT SANDY LOAM W/ ROCKS	0"- 4" TOPSOIL 4"-37" ORANGE-BROWN SILTY LOAM 37"-71" GRAY MODERATELY COMPACT SANDY LOAM W/ ROCKS
NO MOTTLING NO GROUNDWATER NO LEDGE RESTRICTIVE @ 32"	NO MOTTLING NO GROUNDWATER NO LEDGE RESTRICTIVE @ 30"	NO MOTTLING NO GROUNDWATER NO LEDGE RESTRICTIVE @ 37"
DEEP TEST 7	PERCOLATION TEST A	PERCOLATION TEST B
0"-10" TOPSOIL 10"-38" ORANGE-BROWN SILTY LOAM 38"-72" GRAY MODERATELY COMPACT SANDY LOAM W/ ROCKS	DEPTH: 21 1/2" DIAMETER: 8" PRESOAK: 12:15	DEPTH: 20" DIAMETER: 8" PRESOAK: 12:15
NO MOTTLING NO GROUNDWATER NO LEDGE RESTRICTIVE @ 38"	TIME DEPTH DROP 1:20 10 1/2" 1" 1:30 11 1/2" 1" 1:40 12 1/4" 3/4" 1:50 13" 3/4" 2:00 13 3/4" 3/4" 2:10 14 1/2" 3/4"	TIME DEPTH DROP 1:22 8 1/2" 3/4" 1:32 9 1/4" 1/2" 1:42 9 3/4" 1/2" 1:52 10 1/8" 3/8" 2:02 10 5/8" 1/2" 2:12 11" 3/8"
	DESIGN RATE: 1:20	DESIGN RATE: 1:30

NOTE: DEEP TESTS 1 THRU 7 WERE PERFORMED BY McCHORD ENGINEERING ASSOCIATES, INC. ON JANUARY 11, 2022. DEEP TEST 1 THRU 6 WERE WITNESSED BY THE WILTON HEALTH DEPARTMENT. PERCOLATION TESTS A AND B WERE PERFORMED BY McCHORD ENGINEERING ASSOCIATES, INC. ON JANUARY 15, 2022.

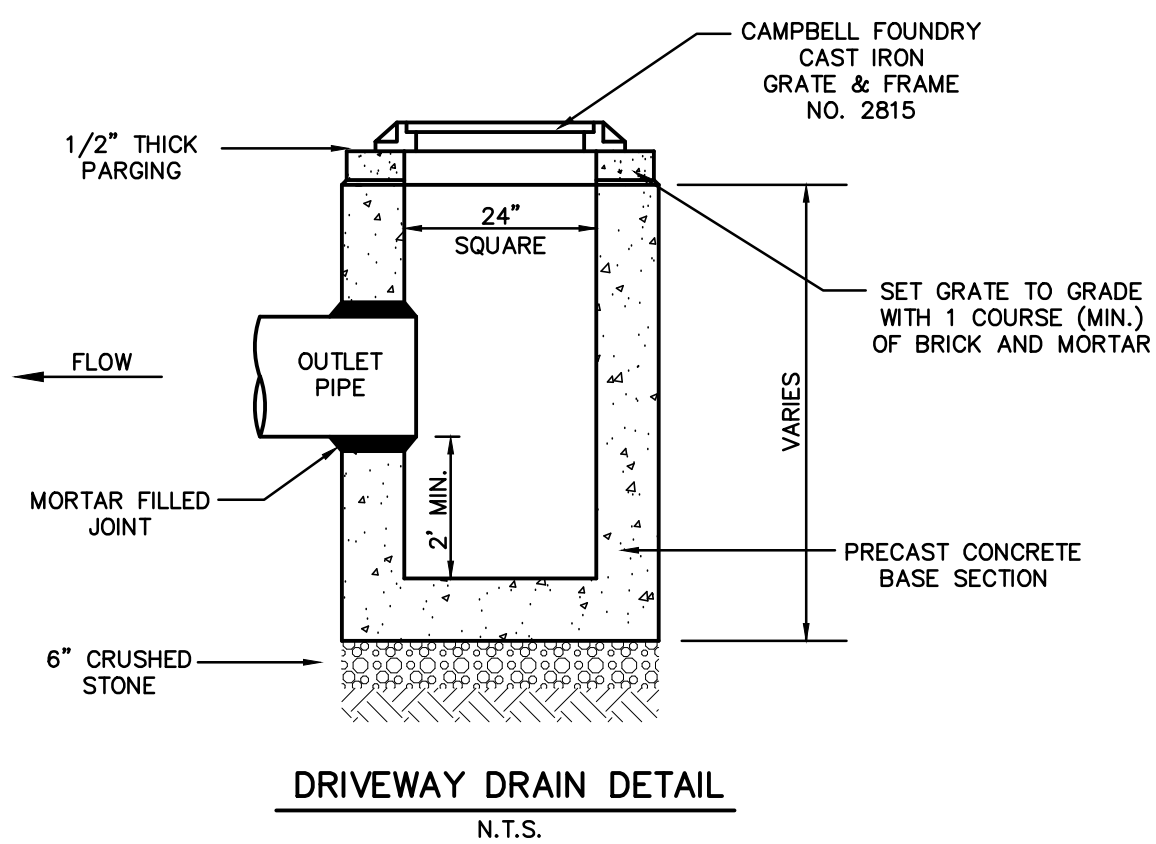
CONSTRUCTION NOTES:

- SUBSURFACE SEWAGE DISPOSAL SYSTEM MATERIALS AND CONSTRUCTION TECHNIQUES SHALL CONFORM TO THE STATE OF CONNECTICUT AND LOCAL HEALTH CODE STANDARDS AND SPECIFICATIONS, AS WELL AS ACCEPTED STANDARDS OF GOOD WORKMANSHIP.
- FINAL INSPECTION AND AS-BUILT DRAWINGS SHALL BE MADE IN ACCORDANCE WITH STATE AND LOCAL CODES. THE DESIGN ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF SYSTEM COMPLETION. INSPECTION OF THE SYSTEM SHALL OCCUR AS SOON AS POSSIBLE TO PREVENT DAMAGE AND IT SHALL BE COVERED WITHIN TWO WORKING DAYS OF THE SANITARIAN'S INSPECTION.
- THE WASTE LINE FROM THE HOUSE/BUILDING TO THE SEPTIC TANK SHALL BE NO LESS THAN 4" DIAMETER CAST IRON PIPE (ASTM A-74) OR A PVC SCHEDULE 40 (ASTM D1785), WITH RUBBER COMPRESSION GASKETS OR SOLVENT WELD JOINTS AND SHALL BE PITCHED WITH A MINIMUM SLOPE OF 1/4" PER FOOT.
- ALL SOLID DISTRIBUTION PIPING SHALL BE TIGHT JOINT 4" DIAMETER PVC (ASTM D3034 SDR 35). THESE LINES SHALL LIE ON UNDISTURBED OR COMPACTED SOIL.
- THE SEPTIC TANK SHALL HAVE A MINIMUM CAPACITY OF 1500 GALLONS AND CONTAIN TWO COMPARTMENTS. THE TANK SHALL BE INSTALLED LEVEL AND BE SET UPON AT LEAST 6" OF CRUSHED STONE OR GRAVEL, AND BE EQUIPPED WITH A 30" RISER SECTION TO GRADE, FOR ACCESS. SEPTIC TANKS INDICATED ARE MANUFACTURED BY RICHARD SEPTIC SYSTEMS, INC. OF TORRINGTON, CT. AN EQUIVALENT TANK IS ACCEPTABLE.
- DISTRIBUTION BOXES ARE MODEL DB 4 AS MANUFACTURED BY RICHARD SEPTIC SYSTEMS, INC. OF TORRINGTON, CONNECTICUT. BOXES SHALL BE SET UPON AT LEAST 6" OF CRUSHED STONE OR GRAVEL. EQUIVALENT BOXES ARE ACCEPTABLE.
- THE CONTRACTOR SHALL REMOVE FROM THE AREA OF THE SEPTIC SYSTEM ALL TOPSOIL AND ALL OTHER ORGANIC MATERIALS, TREE TRUNKS, AND DEBRIS; AND SHALL SCARIFY AND RAKE THE EXPOSED SURFACE TO ENSURE A GOOD BOND BETWEEN THE EXISTING SUBSOIL AND THE SELECT FILL.
- SELECT FILL SHALL MEET CONNECTICUT DEPARTMENT OF TRANSPORTATION SPECIFICATION M.02.06-1B AS FOLLOWS:

SIEVE	% PASSING	WET SIEVE	DRY SIEVE
#4	100	100	100
#10	70-100	70-100	70-100
#40	10-50 *	10-75	10-75
#100	0-20	0-5	0-5
#200	0-5	0-5	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 #200 SIEVE DOES NOT EXCEED 5%.

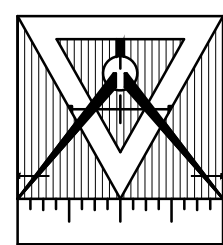
THE FILL SHALL ALSO BE ACCEPTABLE TO THE LOCAL HEALTH DEPARTMENT.
- THE FIRST 6" OF SELECT FILL SHALL BE HARROWED INTO THE EXISTING SOIL. THEREAFTER, IT SHALL BE PLACED IN 12" LIFTS AND MECHANICALLY COMPACTED. COMPACTION SHALL BE AT LEAST 90%-95% OF THAT DETERMINED BY A MODIFIED OPTIMUM COMPACTION TEST PERFORMED IN ACCORDANCE WITH ASTM D1557. SELECT FILL SHALL BE PLACED TO A POINT AT LEAST 5' FROM THE EDGE OF THE TRENCH, AND COMMON FILL TO A POINT 10' FROM THE EDGE OF THE TRENCH. IN CASES WHERE THE DEPTH OF FILL EXCEEDS 12" ABOVE THE EXISTING GRADE, THE TRENCH SHALL BE NOTCHED INTO THE EXISTING SOIL AT LEAST 12" AND FILLED WITH SELECT FILL.
- FINAL GRADING, INCLUDING THE 6" TOPSOIL LAYER, SHALL BE COMPLETED AS SOON AS POSSIBLE AFTER FINAL INSPECTION. CARE SHALL BE TAKEN TO PREVENT THE PONDING OF SURFACE WATER ON OR NEAR ANY PART OF THE SYSTEM.
- PROPOSED SEPTIC SYSTEM LOCATIONS MAY NOT BE SHIFTED WITHOUT OBTAINING WRITTEN PERMISSION FROM THE DESIGN ENGINEER AND LOCAL SANITARIAN.
- NO PART OF THE SEPTIC TANK OR LEACHING TRENCHES SHALL BE WITHIN 75' OF ANY WELL. THERE IS NO APPARENT INTERFERENCE BETWEEN THE WELLS OR SEPTIC SYSTEMS ON ADJACENT PROPERTIES AND THOSE PROPOSED ON THIS PLAN.
- SURFACE AND GROUNDWATER DRAINS SHALL BE PLACED UP GRADIENT AND AT LEAST 25' FROM THE SEPTIC SYSTEM. WHEN DRAINS ARE REQUIRED TO BE DOWN GRADIENT, THEY MUST BE AT LEAST 50' FROM THE SEPTIC SYSTEM. ALL DRAINS AND ROOF LEADERS SHALL DISCHARGE AWAY FROM THE SEPTIC SYSTEM.
- SOIL AND EROSION CONTROL MEASURES SHALL BE INSTALLED AS INDICATED ON THE PLAN AND MAINTAINED DURING CONSTRUCTION, UNTIL THE SITE IS STABILIZED.
- THIS DESIGN IS BASED UPON THE USE OF CONVENTIONAL BATHTUBS WITH A CAPACITY UNDER 100 GALLONS. IF A LARGER BATH/HOT TUB IS TO BE INSTALLED THE LEACHING AREA AND SEPTIC TANK SIZES MUST BE INCREASED TO COMPLY WITH SECTION VII.F OF THE TECHNICAL STANDARDS. ADDITIONALLY, THE SYSTEM HAS NOT BEEN DESIGNED TO ACCEPT EFFLUENT FROM WHIRLPOOL, BACKWASH, WATER SOFTENER BACKWASH OR GARBAGE DISPOSALS.
- THIS DESIGN IS BASED UPON THE INSTALLATION OF THE SEPTIC SYSTEM IN UNCOMPACTED NATURAL SOIL. ALTHOUGH THE CONTRACTOR IS RESPONSIBLE FOR PREPARING THE SITE, THE USE OF HEAVY EQUIPMENT IN THE PROPOSED SEPTIC AREA IS PROHIBITED TO AVOID OVER COMPACTION OF THE NATIVE SOIL.
- THIS DESIGN CONFORMS TO APPLICABLE CODES AND ACCEPTED PRACTICE. NO OTHER WARRANTY IS EXPRESSED OR IMPLIED.
- McCHORD ENGINEERING ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR SEPTIC SYSTEM SITE PREPARATION, LOCATION, OR INVERT ELEVATIONS IN COMPLIANCE WITH THE APPROVED PLAN, UNLESS IT SUPERVISES EACH PHASE OF SYSTEM INSTALLATION.



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NO.	DATE	REVISIONS AND SUBMISSIONS
2	3-31-22	ISSUED FOR MUNICIPAL APPROVAL
1	2-18-22	ISSUED FOR MUNICIPAL APPROVAL

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PLAN PREPARED FOR
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CONSTRUCTION NOTES AND DETAILS
38 KINGDOM RIDGE ROAD
WILTON, CONNECTICUT

JOB NO: 2233A-1
DRAWN BY: DRS
SCALE: AS SHOWN

DATE: FEBRUARY 18, 2022
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