

TOWN OF NORFOLK
19 Maple Avenue, P.O. Box 552
Norfolk, CT 06058-0552
Phone: 860-542-6804 FAX: 860-542-5876

Permit #	23-040
Fee Paid: \$	400 ⁰⁰
State of CT Fee: \$	—
Check #:	3786
Date Paid:	11/30/23

APPLICATION FOR SUBDIVISION or RESUBDIVISION _____
(please check one)

Name of Subdivision: _____

Location of Property: 305 Mountain Road Assessor's MBLU: 8/12/8-1

Total Acreage: 57.55 acres No. of proposed lots: 3 Acreage Open Space _____

Applicant: Allied Engineering Associates, Inc.

Mailing Address: PO Box 726, North Canaan, CT 06018

Telephone: (860) 824-1400 FAX: (860) 824-1401

email: aea.contactus@gmail.com

Record Owner: Carlene C. Laughlin

Mailing Address: PO Box 7893, Jackson, WY 83002

Telephone: _____ FAX: _____

email: _____

Does any portion of this site require review by the Norfolk Inland Wetlands and Watercourses Commission? yes _____ no

If yes, please state date of application submission to the IWWC? 11/29/2023

Is this site within 500' of another municipality? _____ yes no

If yes, please state name(s): _____

Is this subdivision to be considered a property division for the purposes of Affordable Housing per CSG Section 8-30(g)? _____ yes no

Does the general design of this subdivision and its improvements comply substantially with the Town of Norfolk's Plan of Conservation and Development? yes _____ no

Are there any easements, deed restrictions, or covenants relating to this subdivision plan? _____
yes no. If yes, please attach copy of each.

Please describe provisions provided for open space requirements as described in Section 3.04 of Norfolk's Zoning Regulations (if applicable):

Per 3.04.7, a no open space required

Does this plan require Earth Excavation as described in Section 6.04 of Norfolk's Zoning Regulations? yes no.

If yes, please explain: 6.04. B.1 permitted in conjunction with an authorized and permitted use or development of property.

Is any portion of this site located within a public water supply aquifer protection area or watershed area? yes no

If yes, please include copy of written notice to water company and CT DPH.

Will any activity require a General Permit for the Discharge of Stormwater from CT DEEP? yes no

If yes, please include copy of approved DEEP permit.

Does this site have any unique habitats or special areas as identified by the DEEP and/or Town of Norfolk POCD? yes no

If yes, please provide details and indicate location(s): _____

Does this plan have proposed roads or drainage connecting to a state highway? yes no

Please describe any solar or alternative energy conservation plans utilized or considered as part of this subdivision: _____

N/A

Name of Surveyor: Mathias M Kiefer CT Reg. # 0016101

Address: 55 Selleck Hill Rd, Salisbury, CT 06068

Telephone: (860) 435-7044 email: _____

Name of Engineer: Allied Engineering Assoc, Inc. CT Reg. # 22610

Address: PO Box 726, North Canaan, CT 06018

Telephone: (860) 824-1400 email: aca.contactus@gmail.com

Please refer to Appendices A & B of Norfolk's Subdivision Regulations for additional required documentation. In addition, please attach list of all abutting and adjacent property owners (including across the street) within 100' of site.

The undersigned hereby agrees to authorize the Norfolk Planning & Zoning Commission or its duly authorized agent(s) to enter the property proposed for subdivision under this application for the purpose of inspection, supervision, completion of improvements of any other purpose necessary to carry out the purpose and intent of the Norfolk Subdivision Regulations.

Signed: Joey Phares Date: 10/18/23
Applicant

Signed: _____ Date: _____
Record Owner(s) of Property

FOR COMMISSION USE ONLY:

1. Date Preliminary Information Submitted: _____
2. Date of Informal Meeting: _____
3. Date Application Received: 11/30/23
4. Date of Submission to IWWC: 11/30/23 Report received: _____
5. Date(s) of Publication of Legal Notices: _____ to Town Clerk: _____
6. Notice to Applicant (by certified mail): _____
7. Date of Public Hearing: 1/9/24
8. Date to Complete Public Hearing: _____
9. Performance Bond required: \$ _____ Received: _____
10. Commission Action: ___ Approved ___ Conditional Approval ___ Disapproval
11. Notice of Legal Notice of Decision: _____ to Town Clerk: _____
12. Notice of Decision to Applicant: _____
13. Approved Mylar received: _____ Filed: _____



Allied Engineering Assoc., Inc.

95 Main Street 3rd Floor – East

P.O. Box 726

North Canaan, CT 06018

860-824-1400

860-824-1401 fax

allied-engineering@snet.net

Our Job #984

11/21/23

Stormwater Drainage Report

This report is being generated to meet the requirements of the Subdivision Regulations. The property in question is located at 305 Mountain Road. The property no houses a single family home with some outbuildings. The property contains 53.329 Acres. The proposal is to create two new lots that will be deeded to family members. The two proposed lots contain 6.895 acres and 7.493 acres.

The lots have had soil testing done and each lot has been approved to handle a 4 bedroom house. The area of the house and driveway on each lot is 0.12 acres. The lots are now covered with woods with areas of wetlands and lots of exposed ledge. There is very little soil over the ledge. When doing the drainage calculations, the construction of the house and driveway has no affect on the rate of runoff. The numbers are the same, as follows:

Lot 1081 B (middle lot) has the following runoff numbers:

Existing: 2 yr storm, 20.83 cfs, 10 yr storm, 29.31 cfs, 25 yr storm, 334.40 cfs, 50 yr storm, 38.35 cfs, and 100 yr storm, 42.26 cfs.

The proposed numbers are exactly the same.

Lot 1081 C (westerly lot) has the following runoff numbers:

Existing: 2 yr storm 22.61 cfs, 10 yr storm, 31.81 cfs, 25 yr storm, 37.34 cfs, 50 yr storm, 41.63 cfs and 100 yr storm, 45.88 cfs.

The proposed numbers are again, exactly the same.

Based on these calculations, it is obvious that there is no significant impact from the development.

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Letter of Authorization

I, Carlene Loughlin, the owner of 305 Mountain Road in Norfolk, CT, authorize Allied Engineering Associates Inc. as my agent in signing applications on my behalf, submissions of applications and permit authorizations to The Town of Norfolk, CT Department of Transportation, Department of Energy and Environmental Protection, Local Health District, and/or any other Governing Agency that may be required in the approval of proposed work to this property.

Owners Signature: Carlene Loughlin

Date: 1/26/22



TORRINGTON AREA HEALTH DISTRICT

350 Main Street ♦ Suite A ♦ Torrington, Connecticut 06790
Phone (860) 489-0436 ♦ Fax (860) 496-8243 ♦ E-mail info@tahd.org ♦ Web www.tahd.org
"Promoting Health & Preventing Disease Since 1967"

August 31, 2023

Planning and Zoning Commission
Town of Norfolk
PO Box 592
Norfolk, Ct. 06058

RE: Laughlin Subdivision, 305 Mountain Road, Norfolk, Ct

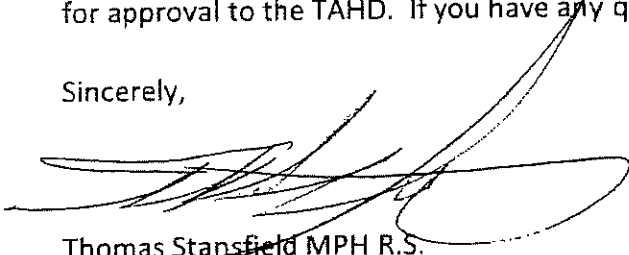
Commission Members,

The Torrington Area Health District is in receipt of the three lot subdivision plan proposed for property at 305 Mountain Road in Norfolk, Ct. The plan was developed by Allied Engineering Associates and this approval is based on revised plans consisting of five sheets and received in this office on 8/28/23 entitled "Existing Overall Site Plan" and dated 11/01/22.

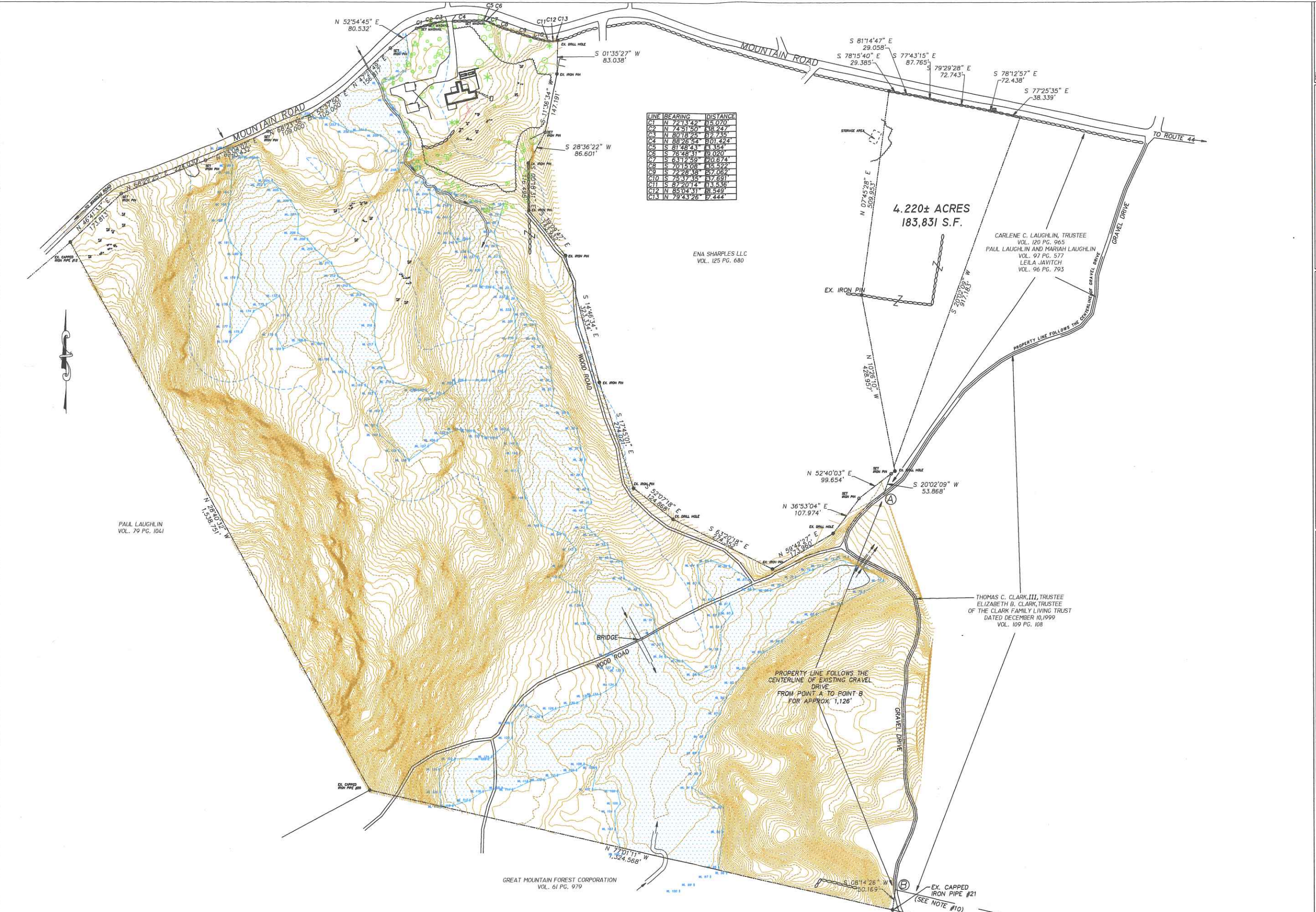
The three proposed parcels consist of an existing 5 bedroom residence, a proposed 6.89 acre four bedroom residential lot and a 7.49 acre four bedroom residential lot. Each of the proposed lots were required to have the areas proposed for subsurface sewage disposal to be prepared in advance of this approval due to shallow ledge conditions. The lots were prepared under the direction of the design engineer and have been shown to comply with the minimum standards of the Connecticut Public Health Code.

Based on field observations by this office and the plans referenced above the Torrington Area health District approves the three lot subdivision. Prior to construction, each of the parcels shall submit final detailed plans for approval to the TAHD. If you have any questions, please feel free to contact me.

Sincerely,



Thomas Stansfield MPH R.S.
Deputy Director of Health
Registered Sanitarian

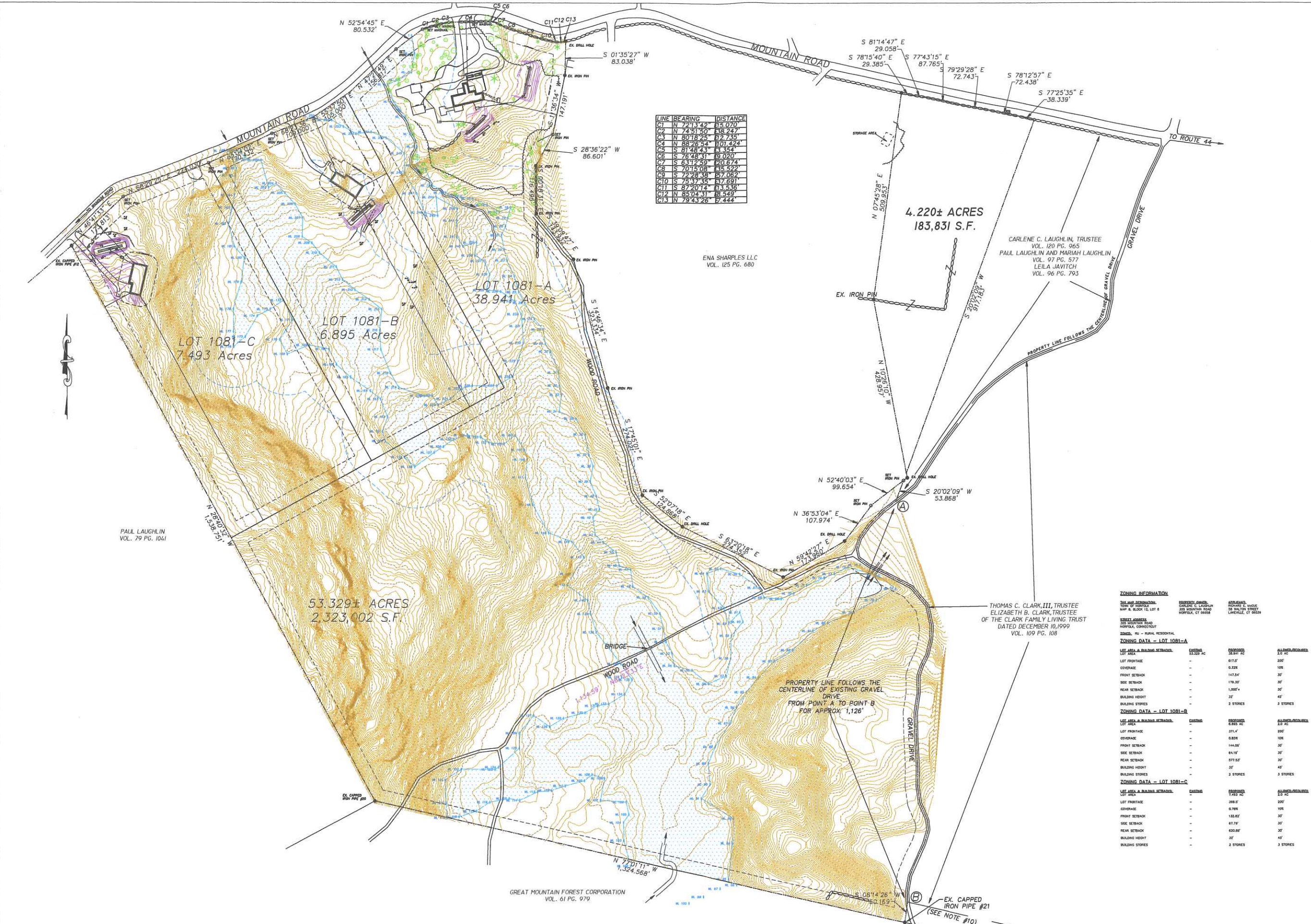


REVISIONS - DESCRIPTION - DATE - INITIAL
1.) - Revised per town regulations - 10/27/2023 - JMJ

EXISTING OVERALL SITE PLAN

PREPARED FOR
McCUE/LAUGHLIN
305 MOUNTAIN ROAD
NORFOLK, CONNECTICUT

SCALE: 1"=100'
FILE NAME: 984-SITE-17
DATE: 11/01/2022
ISSUED FOR: PERMITTING
PROJECT NO. 984
DRAWING NO. C-1a



AEA
 Allied Engineering Assoc. Inc.
 95 Main St. 3rd Flr. East
 P.O. Box 726 North Canaan, Ct 06018
 860-824-1400 860-824-1401 fax
 aeassoc@aol.com

1.) - REVISED PER TOWN REGULATIONS - 10/27/2023 - JMJ

PROPOSED OVERALL SITE PLAN

PREPARED FOR
 McCUE/LAUGHLIN
 305 MOUNTAIN ROAD
 NORFOLK, CONNECTICUT

SCALE: 1"=100'
 FILE NAME: 984-SITE-17
 DATE: 11/01/2022
 ISSUED FOR: PERMITTING
 PROJECT NO. 984
 DRAWING NO. C-1

ZONING INFORMATION

TAX MAP INFORMATION: TOWN OF NORFOLK, MAP 8, BLOCK 12, LOT 8
 STREET ADDRESS: 305 MOUNTAIN ROAD, NORFOLK, CONNECTICUT
 ZONING: RU - RURAL RESIDENTIAL

EXISTING	PROPOSED	ALLOWED
2.2 AC	2.2 AC	2.2 AC
617.0'	200'	200'
0.328	10%	10%
147.54'	30'	30'
178.30'	30'	30'
1,000'	40'	40'
3'	3 STORIES	3 STORIES

ZONING DATA - LOT 1081-A

EXISTING	PROPOSED	ALLOWED
6.885 AC	2.0 AC	2.0 AC
371.4'	200'	200'
0.838	10%	10%
144.00'	30'	30'
84.14'	30'	30'
271.53'	30'	30'
32'	40'	40'
2 STORIES	3 STORIES	3 STORIES

ZONING DATA - LOT 1081-B

EXISTING	PROPOSED	ALLOWED
7.493 AC	2.0 AC	2.0 AC
388.0'	200'	200'
0.788	10%	10%
132.82'	30'	30'
81.79'	30'	30'
630.87'	30'	30'
32'	40'	40'
2 STORIES	3 STORIES	3 STORIES

ZONING DATA - LOT 1081-C

EXISTING	PROPOSED	ALLOWED
7.493 AC	2.0 AC	2.0 AC
388.0'	200'	200'
0.788	10%	10%
132.82'	30'	30'
81.79'	30'	30'
630.87'	30'	30'
32'	40'	40'
2 STORIES	3 STORIES	3 STORIES

THOMAS C. CLARK, III, TRUSTEE
 ELIZABETH B. CLARK, TRUSTEE
 OF THE CLARK FAMILY LIVING TRUST
 DATED DECEMBER 10, 1999
 VOL. 109 PG. 108

PROPERTY LINE FOLLOWS THE
 CENTERLINE OF EXISTING GRAVEL
 DRIVE
 FROM POINT A TO POINT B
 FOR APPROX. 1,126'

GREAT MOUNTAIN FOREST CORPORATION
 VOL. 61 PG. 979

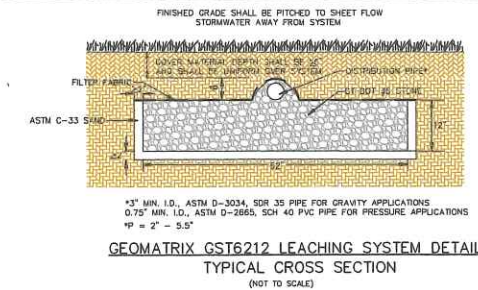
PAUL LAUGHLIN
 VOL. 79 PG. 1041

ENA SHARPLES LLC
 VOL. 125 PG. 680

EX. CAPPED
 IRON PIPE #21
 (SEE NOTE #10)

GENERAL NOTES

- TOPOGRAPHY, PROPERTY LINES, DIMENSIONS AND MISCELLANEOUS INFORMATION TAKEN FROM "MAP SHOWING PROPERTY OF, CARLENE C. LAUGHLIN, 305 MOUNTAIN ROAD, NORFOLK, CONNECTICUT, SCALE: 1"=100', APRIL 22, 2022" BY MATIAS M. KEIFER, L.L.S. #16101
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION. POTENTIAL PROBLEMS OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE CONSTRUCTION STARTS. THIS DESIGN IS SCHEMATIC, ADJUSTMENTS TO LOCATIONS, DIMENSIONS AND ELEVATIONS OF SEPTIC TANK AND LEACHING SYSTEM MAY BE NECESSARY TO CONFORM TO FIELD CONDITIONS. CHANGES IN THE DESIGN SHALL BE APPROVED BY THE LOCAL HEALTH DEPARTMENT, THE ENGINEER OR BOTH. STATE LAW REQUIRES: CALL BEFORE YOU DIG 1-800-922-4455 TO VERIFY THE LOCATION OF UNDERGROUND UTILITIES.
- MATERIALS USED FOR THE JOB AND CONSTRUCTION PRACTICES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND/OR THE CONNECTICUT STATE DEPARTMENT OF HEALTH PUBLIC HEALTH CODE SECTION 19-13-8103 A-F.
- SEPTIC TANK SHALL BE WATER TIGHT 1,250 GALLON PRECAST CONCRETE, 2 COMPARTMENT TANK OR LARGER. TANK SHALL BE PLACED LEVEL. TANK COVERS SHALL BE PLACED WITH NOTIFICATION THAT "ENTRANCE INTO THE TANK COULD BE FATAL." TANK COVERS SHALL BE EXTENDED TO GRADE WITH SUITABLE RISERS AS REQUIRED. PROVIDE H-20 LOADING IF USED UNDER DRIVEWAY OR PARKING AREA. TANK SHALL HAVE AN APPROVED NON-BYPASS EFFLUENT FILTER AT THE OUTLET. THE SEPTIC TANK SHALL BE OF THE SIZE INDICATED AND SHALL BE PRECAST REINFORCED CONCRETE AS MANUFACTURED BY A. RICHARD SEPTIC SYSTEMS, INC., TORRINGTON, CONNECTICUT OR APPROVED EQUAL. IF A GARBAGE GRINDER IS INSTALLED IN THE HOUSE THE CAPACITY OF THE SEPTIC TANK SHALL BE INCREASED BY 250 GALLONS. IF LARGE TUB IS INSTALLED IN THE HOUSE, THE CAPACITY OF THE SEPTIC TANK SHALL BE INCREASED BY 250 GALLONS FOR A 100-200 GALLON TUB OR 500 GALLONS FOR A TUB OVER 200 GALLONS.
- PROVIDE 1"-3" MINIMUM COVER OVER SEPTIC TANK. TANKS INSTALLED IN DRIVE OR PARKING AREAS SHALL BE DESIGNED FOR H-20 LOADING.
- ALL PIPE USED SHALL CONFORM TO STATE OF CONNECTICUT, DEPARTMENT OF HEALTH STANDARDS AND SHALL HAVE 1'-0" MINIMUM COVER OVER TOP OF PIPE.
- THE PRECAST CONCRETE DISTRIBUTION BOX SHALL BE SET LEVEL TO PROVIDE EVEN FLOW TO BOTH SIDES. BOX SHALL BE SET ON 6" MIN. DEEP PAD OF COMPACTED GRAVEL OR 1" CRUSHED STONE.
- THE SANITARY SEWAGE DISPOSAL SYSTEM CONSISTS OF 1 ROW OF GST 6212-GEOMATRIX FOR A TOTAL LENGTH OF 60 LF. 60 LF X 10 SF/LF=600 SF EFFECTIVE AREA PROVIDED. A 4 BEDROOM HOUSE REQUIRES 577.5 SF MIN LEACHING AREA.
- THE BACKFILL USED IN ALL SANITARY SEWAGE DISPOSAL SYSTEM TRENCHES SHALL BE AS SPECIFIED ON PLAN OR OTHER ACCEPTABLE MATERIAL MEETING THE SPECIFICATIONS OF THE STATE OF CONNECTICUT, DEPARTMENT OF HEALTH AND/OR LOCAL HEALTH DEPARTMENT.
- SURFACE WATER SHALL BE DIVERTED FROM THE SANITARY SEWAGE DISPOSAL SYSTEM AREA BY MEANS OF GRADING.
- THE DEVELOPER OR OWNER OR BOTH SHALL BE RESPONSIBLE FOR ALL RIGHTS OF WAYS AND RIGHTS TO DRAIN.
- NO SUBSURFACE INVESTIGATIONS WERE MADE OTHER THAN THOSE INDICATED. SUBSURFACE PROBLEMS ARE THE RESPONSIBILITY OF THE OWNER. THE EXACT LOCATIONS OF ANY UNDERGROUND UTILITIES ARE UNKNOWN AND ARE THE RESPONSIBILITY OF THE OWNER SHOULD ANY BE ENCOUNTERED DURING THE INSTALLATION OF THE SANITARY SYSTEM.
- THE SEPTIC SYSTEM IS FOR SANITARY SEWAGE DISPOSAL ONLY. ALL STORM WATER, COOLING WATER, WATER SOFTENER RESIDUES, SUBSOIL DRAINAGE AND OBJECTIONABLE INDUSTRIAL WASTES ARE TO BE EXCLUDED FROM THE SYSTEM.
- THE OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
- NO AIR CONDITIONING, REFRIGERATION, WATER SOFTENER RESIDUES, OR DRAINAGE (SURFACE OR SUBSURFACE) MAY BE CONNECTED TO THE SANITARY SEWAGE DISPOSAL SYSTEM.
- HOUSE FOOTING DRAINS SHALL BE KEPT 25' MIN. FROM ANY PART OF THE SANITARY SEWAGE DISPOSAL SYSTEM.
- REMOVE THE TOPSOIL IN THE AREA TO RECEIVE FILL. CARE SHALL BE TAKEN TO NOT OVERCOMPACT THE SOIL WITH HEAVY EQUIPMENT. KEEP HEAVY EQUIPMENT OFF OF THE EXPOSED SURFACE. EQUIPMENT SHALL NOT BE USED ON THE EXPOSED SURFACE AREA DURING MUDDY CONDITIONS.
- THERE ARE NO KNOWN WELLS WITHIN 75' OF THE PROPOSED SANITARY SEWAGE DISPOSAL SYSTEM.
- NO SUBSURFACE SEWAGE DISPOSAL SYSTEM SHALL BE CONSTRUCTED, ALTERED, REPAIRED OR EXTENDED WITHOUT AN APPROVAL TO CONSTRUCT ISSUED IN ACCORDANCE WITH THE CURRENT PUBLIC HEALTH CODE. NO DISCHARGE SHALL BE INITIATED TO A SUBSURFACE SEWAGE DISPOSAL SYSTEM WITHOUT A DISCHARGE PERMIT ISSUED IN ACCORDANCE WITH THE CURRENT PUBLIC HEALTH CODE. SUCH PERMITS AND APPROVALS SHALL BE ISSUED AND ADMINISTERED BY THE LOCAL DIRECTOR OF HEALTH.
- WHILE THE SEWAGE DISPOSAL SYSTEM IS UNDER CONSTRUCTION, THE LOCAL DIRECTOR OF HEALTH MAY REQUIRE THAT THE CONSTRUCTION BE SUPERVISED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CONNECTICUT. IN THE OPINION OF THE LOCAL DIRECTOR OF HEALTH IT IS NECESSARY TO INSURE CONFORMANCE TO THE PLANS APPROVED OR BECAUSE OF THE DIFFICULTIES LIKELY TO BE ENCOUNTERED. THE ENGINEER SHALL MAKE A RECORD DRAWING OF THE SEWAGE DISPOSAL SYSTEM, AS INSTALLED, WHICH HE SHALL SUBMIT TO THE LOCAL DIRECTOR OF HEALTH PRIOR TO THE ISSUANCE OF A DISCHARGE PERMIT.
- THERE ARE NO SOURCES OF CONTAMINATION WITHIN 75 FT. OF PROPOSED WELL SITE.
- THE SYSTEM MUST BE INSTALLED WHEN SOIL MOISTURE IS LOW.
- CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING ADJACENT TO TREES.
- "AN AS-BUILT" PLAN MUST BE PREPARED AND SUBMITTED TO THE LOCAL HEALTH DEPARTMENT, WITHIN 30 DAYS OF THE INSPECTION BY THE ENGINEER/SURVEYOR."
- "FOR LEACHING SYSTEMS CONSTRUCTED WITH THE BOTTOMS IN FILL, A MINIMUM OF TWO PERCOLATION TESTS MUST BE CONDUCTED IN THE FILL MATERIAL BEFORE THE LEACHING SYSTEM CAN BE INSTALLED."
- "NO BALLAST IS REQUIRED FOR THE SEPTIC TANK OR PUMP CHAMBER PROVIDED THAT A MINIMUM OF 1.25' OF COVER IS MAINTAINED."
- "AN IN-PLACE SIEVE TEST OF THE 'SELECT FILL' MATERIAL ON SITE TO BE CONDUCTED AS PART OF THE FILL APPROVAL PROCESS. THE TEST RESULTS FOR A COMPOSITE SAMPLE COLLECTED BY THE ENGINEER OR TESTING LAB MUST BE PROVIDED TO THE LOCAL HEALTH DEPARTMENT PRIOR TO ISSUANCE OF THE PERMIT TO DISCHARGE."



SOIL TEST DATA

DATE OF TESTING: 09/01/2022

DP #1	0'-4" TOPSOIL & FOREST LITTER 4"-34" YELLOW BROWN VERY FINE SILTY SANDY LOAM W/BLDRS 34"-44" OLIVE BROWN VERY FINE SILTY SANDY LOAM W/BLDRS MOTTLING @ 34" ROOTS TO 32" NO WATER LEDGE @ 44"
DP #2	0'-4" TOPSOIL & FOREST LITTER 4"-27" YELLOW BROWN VERY FINE SILTY SANDY LOAM W/BLDRS 27"-36" OLIVE BROWN VERY FINE SILTY SANDY LOAM W/BLDRS MOTTLING @ 27" ROOTS TO 26" NO WATER LEDGE @ 36"
DP #3	0'-5" TOPSOIL & FOREST LITTER 5"-30" YELLOW BROWN VERY FINE SILTY SANDY LOAM W/BLDRS 30"-40" OLIVE BROWN VERY FINE SILTY SANDY LOAM W/BLDRS MOTTLING @ 30" ROOTS TO 36" NO WATER LEDGE @ 40"
DP #4	0'-6" TOPSOIL & FOREST LITTER 6"-24" YELLOW BROWN VERY FINE SILTY SANDY LOAM W/BLDRS 24"-28" OLIVE BROWN VERY FINE SILTY SANDY LOAM W/BLDRS MOTTLING @ 24" ROOTS TO 28" NO WATER LEDGE @ 28"
DP #5	0'-7" TOPSOIL & FOREST LITTER 7"-27" YELLOW BROWN VERY FINE SILTY SANDY LOAM W/BLDRS 27"-33" OLIVE BROWN VERY FINE SILTY SANDY LOAM W/BLDRS MOTTLING @ 27" ROOTS TO 27" NO WATER LEDGE @ 33"
DP #6	0'-6" TOPSOIL & FOREST LITTER 6"-28" YELLOW BROWN VERY FINE SILTY SANDY LOAM W/BLDRS 28"-37" OLIVE BROWN VERY FINE SILTY SANDY LOAM W/BLDRS MOTTLING @ 28" ROOTS TO 34" NO WATER LEDGE @ 37"
DP #7	0'-6" TOPSOIL & FOREST LITTER 6"-24" YELLOW BROWN VERY FINE SILTY SANDY LOAM W/BLDRS 24"-27" OLIVE BROWN VERY FINE SILTY SANDY LOAM W/BLDRS MOTTLING @ 24" ROOTS TO 24" NO WATER LEDGE @ 27"
PT #1	DEPTH: 18" PRESOAKED @ 10:30 A.M. 1:24 6 1/4" 1:34 9 1/4" 1:44 10 1/2" 1:54 11 3/4" 2:04 13" 2:14 14 1/2" 2:24 DRY PERC. RATE: 1" / 8.27 MIN.
PT #2	DEPTH: 18" PRESOAKED @ 11:00 A.M. 1:25 7 1/4" 1:35 11 3/4" 1:45 13 1/2" 1:55 15" 2:05 18 1/4" 2:15 DRY @ 17" PERC. RATE: 1" / 8 MIN.
DATE OF TESTING: 05/25/2023	
PT #8	DEPTH: 18" EAST END @ 50" WEST END @ 54" 9:48 6 1/4" 9:49 9 3/4" 9:51 12 1/4" 9:52 13" DRY PERC. RATE: 1" / 1.33 MIN.

SITE INFORMATION

TAX MAP DESIGNATION: TOWN OF NORFOLK MAP B, BLOCK 12, LOT B
ZONED: RU - RURAL RESIDENTIAL
LOT AREA: 57.549±ACRES

PROPERTY OWNER: CARLENE C. LAUGHLIN 305 MOUNTAIN RD NORFOLK, CT 06058

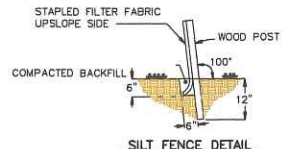
APPLICANT: RICHARD E. MCCUE 58 WALTON STREET LAKEVILLE, CT 06039

C-33 FILL SAND MATERIAL SPECS

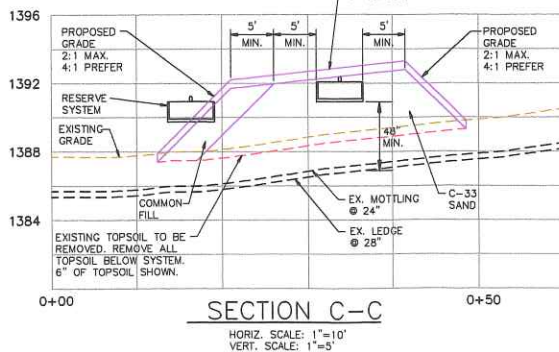
- SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE THREE (3) INCH SIEVE. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON
- THE #4 SIEVE (THIS IS THE GRAVEL PORTION OF THE SAMPLE).
- THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED.
- THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA:

SELECT FILL SIEVE SIZE	PERCENT PASSING WET SIEVE	PERCENT PASSING DRY SIEVE	C 33 SIEVE SIZE	PERCENT PASSING
#4	100%	100%	0.375"	100%
#10	70-100%	70-100%	#4	95.0-100.0%
#40	10-50%	10-75%	#8	80.0-100.0%
#100	0-20%	0-5%	#16	50.0-85.0%
#200	0-5%	0-2.5%	#30	25.0-60.0%
			#50	5.0-30.0%
			#100	< 10%
			#200	< 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% IF THE FILL FAILS THE DRY SIEVE BUT PASSES THE WET SIEVE, THEN THE FILL SHALL BE APPROVED.



- SILT FENCE DETAIL**
- EXCAVATE 6"x6" TRENCH ON THE UPSLOPE SIDE OF THE FENCE LOCATION.
 - DRIVE SUPPORT POSTS ON THE DOWN SLOPE SIDE OF THE TRENCH TO A DEPTH OF AT LEAST 12" INTO ORIGINAL GROUND.
 - ANGLE POSTS TO DEGREES UPHILL TO OVER COMPENSATE FOR ANY SAGGING IN FENCE DUE TO PRESSURE FROM BUILT UP SEDIMENT.
 - STAPLE OR SECURE GEOTEXTILE TO THE POSTS PER MANUFACTURERS RECOMMENDATIONS SUCH THAT 6" OF FABRIC LIES IN THE TRENCH.
 - BACKFILL THE TRENCH WITH THE EXCAVATED TRENCH MATERIAL OVER THE FABRIC TAMP TO COMPACT THE SOIL.
- GEOTEXTILE SILT FENCE DETAIL**
NOT TO SCALE



DESIGN DATA: LOT-1081-C (7.493 ACRES)

- NUMBER OF BEDROOMS = 4
- SEPTIC TANK SIZE REQUIRED AND PROVIDED = 1,250 GALLON
- PERCOLATION RATE USED FOR DESIGN = LESS THAN 10.1 MIN. PER 1"
- EFFECTIVE LEACHING AREA REQUIRED = 577.5 SQ. FT.
- LINEAR FEET OF GST 6212-GEOMATRIX REQUIRED. = 577.5 SQ. FT. / 10 SQ. FT. PER LIN. FT. = 57.75 LIN. FT.
- LINEAR FEET OF GST 6212-GEOMATRIX PROVIDED. = 60 LIN. FT.
- MLSS = HF x FF x PF = 34 x 1.75 x 1 = 59.5 LIN. FT.
SLOPE = 8%
RESTRICTIVE LAYER = MOTTLING @ 24", LEDGE @ 28"

NOTE: IF A GARBAGE DISPOSAL OR HOT TUB IS TO BE INSTALLED IN THE PROPOSED HOUSE, IT IS RECOMMENDED THAT THE SEPTIC TANK SIZE BE INCREASED

LEGEND

- STONE WALL
- WIRE FENCE
- NO PHYSICAL BOUNDARY
- DECIDUOUS TREE
- CONIFEROUS TREE
- FOLIAGE LINE
- FENCE
- CATCH BASIN
- WETLAND BOUNDARY
- EXISTING CONTOUR
- PROPOSED CONTOUR
- SILT FENCE
- PROPOSED SPOT ELEVATION
- APPROX. LIMIT OF DISTURBED AREA
- TO BE REMOVED
- EXISTING
- GRADE TO DRAIN
- OBSERVATION PIT and/or PERCOLATION HOLE.

Proposed Sanitary Sewage Disposal System Design Plan: LOT-1081-C
PREPARED FOR McCUE/LAUGHLIN

305 MOUNTAIN ROAD NORFOLK, CONNECTICUT

SCALE: 1"=20'

FILE NAME: 984-SITE-17
DATE: 11/4/2022
ISSUED FOR: PERMITTING

PROJECT NO. 984
DRAWING NO. C-2

REVISIONS: NUMBER - DESCRIPTION - DATE - INITIAL
1.) - REVISED PER TOWN REGULATIONS - 10/27/2023 - JMJ

AEA
Allied Engineering Assoc. Inc.
95 Main St. 3rd. Flr. East
P.O. Box 726 North Canaan, Ct 06018
860-824-1400 860-824-1401 fax
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GENERAL NOTES

- TOPOGRAPHY, PROPERTY LINES, DIMENSIONS AND MISCELLANEOUS INFORMATION TAKEN FROM:
 - MAP SHOWING PROPERTY OF CARLENE C. LAUGHLIN, 305 MOUNTAIN ROAD, NORFOLK, CONNECTICUT, SCALE: 1"=100', APRIL 22, 2022 BY MATIAS M. KEFER, L.L.S. #16101
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION. POTENTIAL PROBLEMS OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE CONSTRUCTION STARTS. THIS DESIGN IS SCHEMATIC, ADJUSTMENTS TO LOCATIONS, DIMENSIONS AND ELEVATIONS OF SEPTIC TANK AND LEACHING SYSTEM MAY BE NECESSARY TO CONFORM TO FIELD CONDITIONS. CHANGES IN THE DESIGN SHALL BE APPROVED BY THE LOCAL HEALTH DEPARTMENT, THE ENGINEER OR BOTH. STATE LAW REQUIRES: CALL BEFORE YOU DIG 1-800-922-4455 TO VERIFY THE LOCATION OF UNDERGROUND UTILITIES.
- MATERIALS USED FOR THE JOB AND CONSTRUCTION PRACTICES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND/OR THE CONNECTICUT STATE DEPARTMENT OF HEALTH PUBLIC HEALTH CODE SECTION 19-13-B103 A-F.
- SEPTIC TANK SHALL BE WATER TIGHT 1,250 GALLON PRECAST CONCRETE, 2 COMPARTMENT TANK OR LARGER. TANK SHALL BE PLACED LEVEL. TANK COVERS SHALL BE PLACED WITH NOTIFICATION THAT "ENTRANCE INTO THE TANK COULD BE FATAL". TANK COVERS SHALL BE EXTENDED TO GRADE WITH SUITABLE RISERS AS REQUIRED. PROVIDE H-20 LOADING IF USED UNDER DRIVEWAY OR PARKING AREA. TANK SHALL HAVE AN APPROVED NON-DIFFUS FLUENT FILTER AT THE OUTLET. THE SEPTIC TANK SHALL BE OF THE SIZE INDICATED AND SHALL BE PRECAST REINFORCED CONCRETE AS MANUFACTURED BY A RICHARD SEPTIC SYSTEMS, INC., TORRINGTON, CONNECTICUT OR APPROVED EQUAL. IF A GARBAGE GRINDER IS INSTALLED IN THE HOUSE THE CAPACITY OF THE SEPTIC TANK SHALL BE INCREASED BY 250 GALLONS. IF LARGE TUB IS INSTALLED IN THE HOUSE, THE CAPACITY OF THE SEPTIC TANK SHALL BE INCREASED BY 250 GALLONS FOR A 100-200 GALLON TUB OR 500 GALLONS FOR A TUB OVER 200 GALLONS.
- PROVIDE 1'-3" MINIMUM COVER OVER SEPTIC TANK. TANKS INSTALLED IN DRIVE OR PARKING AREAS SHALL BE DESIGNED FOR H-20 LOADING.
- ALL PIPE USED SHALL CONFORM TO STATE OF CONNECTICUT, DEPARTMENT OF HEALTH STANDARDS AND SHALL HAVE 1'-0" MINIMUM COVER OVER TOP OF PIPE.
- THE PRECAST CONCRETE DISTRIBUTION BOX SHALL BE SET LEVEL TO PROVIDE EVEN FLOW TO BOTH SIDES. BOX SHALL BE SET ON 6" MIN. DEEP PAD OF COMPACTED GRAVEL OR 1" CRUSHED STONE.
- THE SANITARY SEWAGE DISPOSAL SYSTEM CONSISTS OF 1 ROW OF GST 6212-GEOMATRIX FOR A TOTAL LENGTH OF 60 LF. 60 LF X 10 SF/LF=600 SF EFFECTIVE AREA PROVIDED. A 4 BEDROOM HOUSE REQUIRES 577.5 SF MIN LEACHING AREA.
- THE BACKFILL USED IN ALL SANITARY SEWAGE DISPOSAL SYSTEM TRENCHES SHALL BE AS SPECIFIED ON PLAN OR OTHER ACCEPTABLE MATERIAL MEETING THE SPECIFICATIONS OF THE STATE OF CONNECTICUT, DEPARTMENT OF HEALTH AND/OR LOCAL HEALTH DEPARTMENT.
- SURFACE WATER SHALL BE DIVERTED FROM THE SANITARY SEWAGE DISPOSAL SYSTEM AREA BY MEANS OF GRADING.
- THE DEVELOPER OR OWNER OR BOTH SHALL BE RESPONSIBLE FOR ALL RIGHTS OF WAYS AND RIGHTS TO DRAIN.
- NO SUBSURFACE INVESTIGATIONS WERE MADE OTHER THAN THOSE INDICATED. SUBSURFACE PROBLEMS ARE THE RESPONSIBILITY OF THE OWNER. THE EXACT LOCATIONS OF ANY UNDERGROUND UTILITIES ARE UNKNOWN AND ARE THE RESPONSIBILITY OF THE OWNER SHOULD ANY BE ENCOUNTERED DURING THE INSTALLATION OF THE SANITARY SYSTEM.
- THE SEPTIC SYSTEM IS FOR SANITARY SEWAGE DISPOSAL ONLY. ALL STORM WATER, COOLING WATER, WATER SOFTENER RESIDUES, SUBSOIL DRAINAGE AND OBJECTIONABLE INDUSTRIAL WASTES ARE TO BE EXCLUDED FROM THE SYSTEM.
- THE OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
- NO AIR CONDITIONING, REFRIGERATION, WATER SOFTENER RESIDUES, OR DRAINAGE (SURFACE OR SUBSURFACE) MAY BE CONNECTED TO THE SANITARY SEWAGE DISPOSAL SYSTEM.
- HOUSE FOOTING DRAINS SHALL BE KEPT 25" MIN. FROM ANY PART OF THE SANITARY SEWAGE DISPOSAL SYSTEM.
- REMOVE THE TOPSOIL IN THE AREA TO RECEIVE FILL. CARE SHALL BE TAKEN TO NOT OVERCOMPACT THE SOIL WITH HEAVY EQUIPMENT. KEEP HEAVY EQUIPMENT OFF OF THE EXPOSED SURFACE. EQUIPMENT SHALL NOT BE USED ON THE EXPOSED SURFACE AREA DURING MUDDY CONDITIONS.
- THERE ARE NO KNOWN WELLS WITHIN 75' OF THE PROPOSED SANITARY SEWAGE DISPOSAL SYSTEM.
- NO SUBSURFACE SEWAGE DISPOSAL SYSTEM SHALL BE CONSTRUCTED, ALTERED, REPAIRED OR EXTENDED WITHOUT AN APPROVAL TO CONSTRUCT ISSUED IN ACCORDANCE WITH THE CURRENT PUBLIC HEALTH CODE. NO DISCHARGE SHALL BE INITIATED TO A SUBSURFACE SEWAGE DISPOSAL SYSTEM WITHOUT A DISCHARGE PERMIT ISSUED IN ACCORDANCE WITH THE CURRENT PUBLIC HEALTH CODE. SUCH PERMITS AND APPROVALS SHALL BE ISSUED AND ADMINISTERED BY THE LOCAL DIRECTOR OF HEALTH.
- WHILE THE SEWAGE DISPOSAL SYSTEM IS UNDER CONSTRUCTION, THE LOCAL DIRECTOR OF HEALTH MAY REQUIRE THAT THE CONSTRUCTION BE SUPERVISED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CONNECTICUT. IF IN THE OPINION OF THE LOCAL DIRECTOR OF HEALTH IT IS NECESSARY TO INSURE CONFORMANCE TO THE PLANS APPROVED OR BECAUSE OF THE DIFFICULTIES LIKELY TO BE ENCOUNTERED, THE ENGINEER SHALL MAKE A RECORD DRAWING OF THE SEWAGE DISPOSAL SYSTEM, AS INSTALLED, WHICH HE SHALL SUBMIT TO THE LOCAL DIRECTOR OF HEALTH PRIOR TO THE ISSUANCE OF A DISCHARGE PERMIT.
- THERE ARE NO SOURCES OF CONTAMINATION WITHIN 75 FT. OF PROPOSED WELL SITE.
- THE SYSTEM MUST BE INSTALLED WHEN SOIL MOISTURE IS LOW.
- CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING ADJACENT TO TREES.
- "AN 'AS-BUILT' PLAN MUST BE PREPARED AND SUBMITTED TO THE LOCAL HEALTH DEPARTMENT, WITHIN 30 DAYS OF THE INSPECTION BY THE ENGINEER/SURVEYOR."
- "FOR LEACHING SYSTEMS CONSTRUCTED WITH THE BOTTOMS IN FILL, A MINIMUM OF TWO PERCOLATION TESTS MUST BE CONDUCTED IN THE FILL MATERIAL BEFORE THE LEACHING SYSTEM CAN BE INSTALLED." PT #9
- "NO BALLAST IS REQUIRED FOR THE SEPTIC TANK OR PUMP CHAMBER PROVIDED THAT A MINIMUM OF 1.25' OF COVER IS MAINTAINED."
- "AN IN-PLACE SIEVE TEST OF THE 'SELECT FILL' MATERIAL ON SITE TO BE CONDUCTED AS PART OF THE FILL APPROVAL PROCESS. THE TEST RESULTS FOR A COMPOSITE SAMPLE COLLECTED BY THE ENGINEER OR TESTING LAB MUST BE PROVIDED TO THE LOCAL HEALTH DEPARTMENT PRIOR TO ISSUANCE OF THE PERMIT TO DISCHARGE."

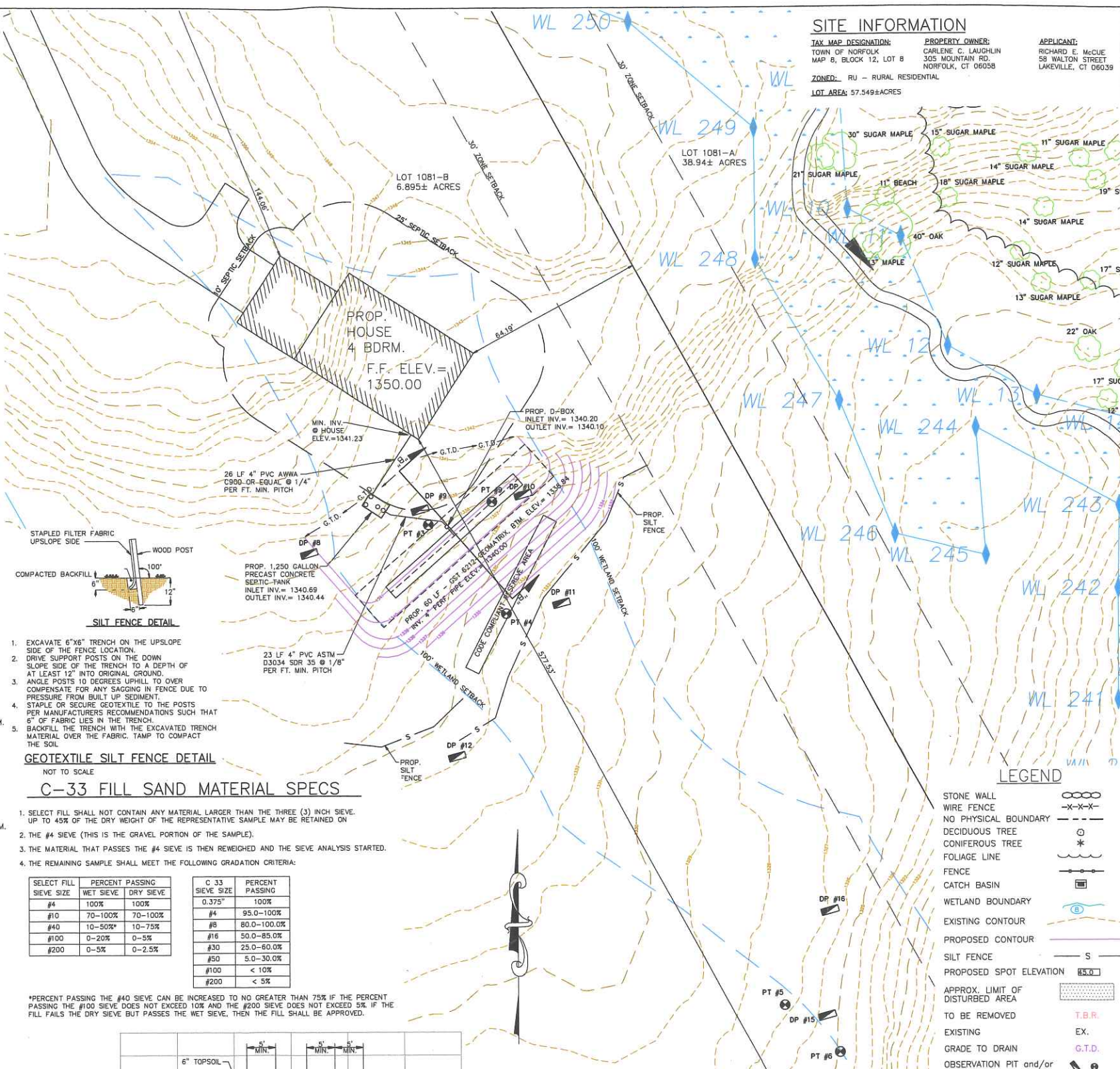
SOIL TEST DATA

DATE OF TESTING: 09/01/2022

DP #	DEPTH	DESCRIPTION	PERC. RATE	
DP #8	0'-7"	TOPSOIL & FOREST LITTER		
	7'-24"	YELLOW BROWN VERY FINE SILTY SANDY LOAM W/BLDRS		
	24'-42"	OLIVE BROWN VERY FINE SILTY SANDY LOAM W/BLDRS		
	MOTTLING @ 24"			
	ROOTS TO 26"			
	NO WATER LEDGE @ 42"			
DP #9	0'-5"	TOPSOIL & FOREST LITTER		
	5'-33"	YELLOW BROWN VERY FINE SILTY SANDY LOAM W/BLDRS		
	33'-46"	OLIVE BROWN VERY FINE SILTY SANDY LOAM W/BLDRS		
	MOTTLING @ 33"			
	ROOTS TO 33"			
	NO WATER LEDGE @ 46"			
DP #10	0'-7"	TOPSOIL & FOREST LITTER		
	7'-24"	YELLOW BROWN VERY FINE SILTY SANDY LOAM W/BLDRS		
	24'-45"	OLIVE BROWN VERY FINE SILTY SANDY LOAM W/BLDRS		
	MOTTLING @ 24"			
	ROOTS TO 30"			
	NO WATER LEDGE @ 45"			
DP #11	0'-6"	TOPSOIL & FOREST LITTER		
	6'-27"	YELLOW BROWN VERY FINE SILTY SANDY LOAM W/BLDRS		
	27'-54"	OLIVE BROWN VERY FINE SILTY SANDY LOAM W/BLDRS		
	MOTTLING @ 27"			
	ROOTS TO 25"			
	NO WATER LEDGE @ 54"			
DP #12	0'-3"	TOPSOIL & FOREST LITTER		
	3'-22"	YELLOW BROWN VERY FINE SILTY SANDY LOAM W/BLDRS		
	22'-34"	OLIVE BROWN VERY FINE SILTY SANDY LOAM W/BLDRS		
	MOTTLING @ 22"			
	ROOTS TO 20"			
	NO WATER LEDGE @ 34"			
DP #13	0'-8"	TOPSOIL & FOREST LITTER		
	8'-22"	YELLOW BROWN VERY FINE SILTY SANDY LOAM W/BLDRS		
	22'-65"	OLIVE BROWN VERY FINE SILTY SANDY LOAM W/BLDRS		
	MOTTLING @ 22"			
	ROOTS TO 25"			
	NO WATER LEDGE @ 65"			
DP #14	BEE'S NEST			
	MOTTLING @ 22"			
	LEGE @ 36"			
DP #15	0'-6"	TOPSOIL & FOREST LITTER		
	6'-33"	YELLOW BROWN VERY FINE SILTY SANDY LOAM W/BLDRS		
	33'-65"	OLIVE BROWN VERY FINE SILTY SANDY LOAM W/BLDRS		
	MOTTLING @ 33"			
	ROOTS TO 28"			
	NO WATER LEDGE @ 65"			
DP #16	0'-5"	TOPSOIL & FOREST LITTER		
	5'-26"	YELLOW BROWN VERY FINE SILTY SANDY LOAM W/BLDRS		
	26'-34"	OLIVE BROWN VERY FINE SILTY SANDY LOAM W/BLDRS		
	MOTTLING @ 26"			
	ROOTS TO 30"			
	NO WATER LEDGE @ 34"			
PT #	DEPTH	PERC.	PERC. RATE	
PT #3	18"	PRESOAKED @ 11:00 A.M.		
	1:37	5 1/2%		
	1:47	9 1/2%		
	1:57	11 1/2%		
	2:07	12 1/2%		
	2:17	13 1/2%		
	2:27	14 1/2%		
	2:37	DRY		
	PERC. RATE: 1 1/8 MIN			
PT #4	18"	PRESOAKED @ 11:15 A.M.		
	1:38	5 1/2%		
	1:48	10 1/2%		
	1:58	11 1/2%		
	2:08	13%		
	2:18	14 1/2%		
	2:28	DRY		
	PERC. RATE: 1 1/8 MIN			
PT #5	18"	PRESOAKED @ 11:30 A.M.		
	1:39	5 1/2%		
	1:49	8 1/2%		
	1:59	10 1/2%		
	2:09	12 1/2%		
	2:19	13 1/2%		
	2:29	15%		
	2:39	DRY		
	PERC. RATE: 1 1/8 MIN			
PT #6	18"	PRESOAKED @ 11:40 A.M.		
	1:40	4 1/2%		
	1:50	9%		
	2:00	10 1/2%		
	2:10	12%		
	2:20	13 1/2%		
	2:30	14 1/2%		
	2:40	DRY		
		PERC. RATE: 1 1/8 MIN		
	DEPTH	PERC IN FILL		
	18"			
10:47	5 3/4"			
10:48	6 3/4"			
10:49	7 1/2"			
10:50	8 3/4"			
10:51	9 1/2"			
10:52	10 1/4"			
10:53	11"			
10:54	11 1/2"			
10:55	DRY @ 12"			

SITE INFORMATION

TAX MAP DESIGNATION: TOWN OF NORFOLK MAP 8, BLOCK 12, LOT 8
PROPERTY OWNER: CARLENE C. LAUGHLIN 305 MOUNTAIN RD. NORFOLK, CT 06058
APPLICANT: RICHARD E. MCCLUE 58 WALTON STREET LAKEVILLE, CT 06039
ZONED: RU - RURAL RESIDENTIAL
LOT AREA: 57.549±ACRES



GEOTEXTILE SILT FENCE DETAIL



C-33 FILL SAND MATERIAL SPECS

1. EXCAVATE 6"X6" TRENCH ON THE UPSLOPE SIDE OF THE FENCE LOCATION.

2. DRIVE SUPPORT POSTS ON THE DOWN SLOPE SIDE OF THE TRENCH TO A DEPTH OF AT LEAST 12" INTO ORIGINAL GROUND.

3. ANGLE POSTS TO DEGREES UPHILL TO OVER COMPENSATE FOR ANY SAGGING IN FENCE DUE TO PRESSURE FROM BUILT UP SEDIMENT.

4. STAPLE OR SECURE GEOTEXTILE TO THE POSTS PER MANUFACTURERS RECOMMENDATIONS SUCH THAT 6" OF FABRIC LIES IN THE TRENCH.

5. BACKFILL THE TRENCH WITH THE EXCAVATED TRENCH MATERIAL OVER THE FABRIC. TAMP TO COMPACT THE SOIL.

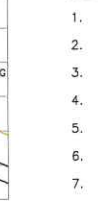
NOT TO SCALE

SELECT FILL	PERCENT PASSING
#4	100%
#10	70-100%
#40	10-50%
#100	0-20%
#200	0-5%

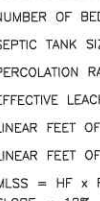
C 33 SIEVE SIZE	PERCENT PASSING
#4	95.0-100.0%
#10	80.0-100.0%
#20	50.0-85.0%
#40	25.0-60.0%
#60	5.0-30.0%
#100	< 10%
#200	< 5%

NOTE: 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%. IF THE FILL FAILS THE DRY SIEVE BUT PASSES THE WET SIEVE, THEN THE FILL SHALL BE APPROVED.

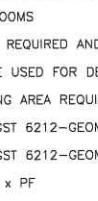
GEOMATRIX GST6212 LEACHING SYSTEM DETAIL



SECTION B-B



SECTION B*-B*



LEGEND

- STONE WALL
- WIRE FENCE
- NO PHYSICAL BOUNDARY
- DECIDUOUS TREE
- CONIFEROUS TREE
- FOLIAGE LINE
- FENCE
- CATCH BASIN
- WETLAND BOUNDARY
- EXISTING CONTOUR
- PROPOSED CONTOUR
- SILT FENCE
- PROPOSED SPOT ELEVATION 85.0'
- APPROX. LIMIT OF DISTURBED AREA
- TO BE REMOVED
- EXISTING
- GRADE TO DRAIN
- OBSERVATION PIT and/or PERCOLATION HOLE.

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PROPOSED SANITARY SEWAGE DISPOSAL SYSTEM DESIGN PLAN: LOT-1081-B
PREPARED FOR
McCUE/LAUGHLIN
305 MOUNTAIN ROAD
NORFOLK, CONNECTICUT

SCALE: 1"=20'
FILE NAME: 984-SITE-17
DATE: 11/4/2022
ISSUED FOR: PERMITTING
PROJECT NO. 984
DRAWING NO. **C-3**

GENERAL NOTES - GUEST HOUSE

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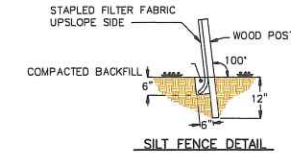
DATE OF TESTING: 5-25-2023

DP #19	0'-5" TOPSOIL	5'-27" YELLOW BROWN VERY FINE SILTY SANDY LOAM
	27'-67" OLIVE BROWN VERY FINE SILTY SANDY LOAM	MOTTLING @ 27"
	NO WATER	ROOTS TO 27"
	LEDGE @ 67"	
DP #20	0'-14" TOPSOIL	14'-37" YELLOW BROWN VERY FINE SILTY SANDY LOAM
	37'-74" OLIVE BROWN VERY FINE SILTY SANDY LOAM	MOTTLING @ 37"
	NO WATER	ROOTS TO 37"
	LEDGE @ 74"	
DP #21	0'-17" TOPSOIL	17'-41" YELLOW BROWN VERY FINE SILTY SANDY LOAM
	41'-65" OLIVE BROWN VERY FINE SILTY SANDY LOAM	MOTTLING @ 41"
	NO WATER	ROOTS TO 29"
	LEDGE @ 65"	
DP #22	0'-6" TOPSOIL	6'-35" ORANGE BROWN VERY FINE SILTY SANDY LOAM
	35'-78" OLIVE BROWN VERY FINE SILTY SANDY LOAM	MOTTLING @ 35"
	NO WATER	ROOTS TO 35"
	NO LEDGE	

DATE OF TESTING: 06/06/2023

PT #10	DEPTH: 18"	
	PRESOAKED @ 10:50 A.M.	
	11:50	2 5/8"
	11:55	3 3/4"
	12:00	4 9/16"
	12:05	5 3/16"
	12:10	5 13/16"
	12:20	6 13/16"
	12:30	8 7/8"
	12:40	8 11/16"
12:50	10 1/2"	
1:00	10 1/2"	
PERC. RATE: 1" / 12.31 MIN.		

PT #11	DEPTH: 18"	
	PRESOAKED @ 10:55AM.	
	11:47	5 3/16"
	11:52	7 13/16"
	11:57	9 5/8"
	12:02	11 1/8"
	12:07	12 3/8"
	12:12	13 3/8"
	12:17	14 5/16"
	12:22	15 1/8"
12:27	16"	
12:32	16 3/4"	
12:37	DRY @ 17 1/2"	
PERC. RATE: 1" / 6.66 MIN.		



- EXCAVATE 6"x6" TRENCH ON THE UPSLOPE SIDE OF THE FENCE LOCATION.
- DRIVE SUPPORT POSTS ON THE DOWN SLOPE SIDE OF THE TRENCH TO A DEPTH OF AT LEAST 12" INTO ORIGINAL GROUND.
- ANGLE POSTS 10 DEGREES UPHILL TO OVER COMPENSATE FOR ANY SAGGING IN FENCE DUE TO PRESSURE FROM BUILT UP SEDIMENT.
- STAPLE OR SECURE GEOTEXTILE TO THE POSTS PER MANUFACTURER'S RECOMMENDATIONS SUCH THAT 6" OF FABRIC LIES IN THE TRENCH.
- BACKFILL THE TRENCH WITH THE EXCAVATED TRENCH MATERIAL OVER THE FABRIC. TAMP TO COMPACT THE SOIL.

GEOTEXTILE SILT FENCE DETAIL

NOT TO SCALE

C-33 FILL SAND MATERIAL SPECS

- SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE THREE (3) INCH SIEVE. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON
- THE #4 SIEVE (THIS IS THE GRAVEL PORTION OF THE SAMPLE).
- THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED.
- THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA:

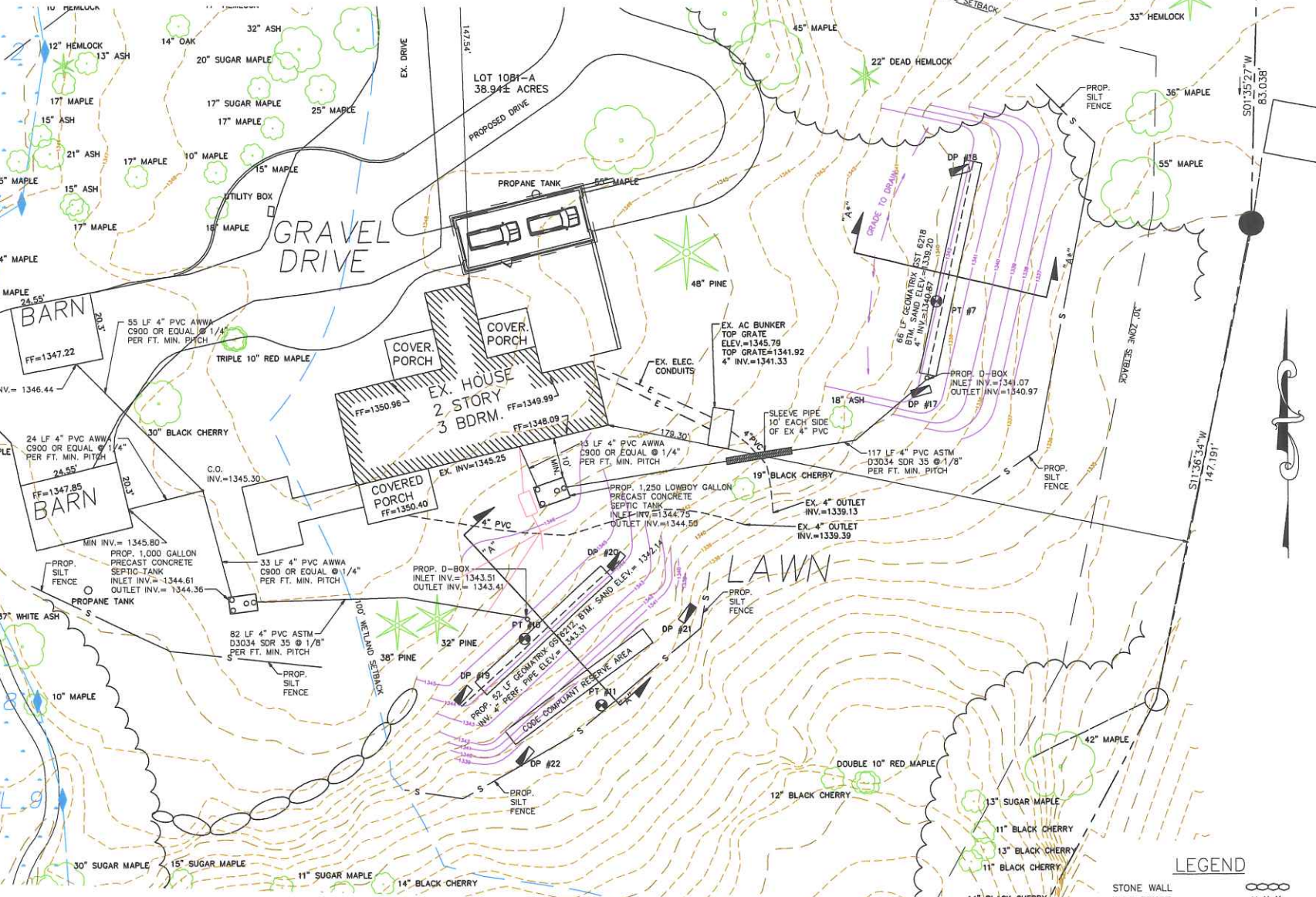
SELECT FILL SIEVE SIZE	PERCENT PASSING WET SIEVE	PERCENT PASSING DRY SIEVE	C 33 SIEVE SIZE	PERCENT PASSING
#4	100%	100%	0.375"	100%
#10	70-100%	70-100%	#4	95.0-100%
#40	10-50%*	10-75%	#6	80.0-100.0%
#100	0-20%	0-5%	#16	50.0-85.0%
#200	0-5%	0-2.5%	#30	25.0-60.0%
			#50	5.0-30.0%
			#100	< 10%
			#200	< 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%. IF THE FILL FAILS THE DRY SIEVE BUT PASSES THE WET SIEVE, THEN THE FILL SHALL BE APPROVED.

DESIGN DATA: LOT-1081-A-GUEST HOUSE

- NUMBER OF BEDROOMS = 2
- SEPTIC TANK SIZE REQUIRED AND PROVIDED = 1,000 GALLON
- PERCOLATION RATE USED FOR DESIGN = 1" PER 10.1 TO 20.0 MIN.
- EFFECTIVE LEACHING AREA REQUIRED = 500 SQ. FT.
- LINEAR FEET OF GST 6212 GEOMATRIX REQUIRED. = 500 SQ. FT. / 10 SQ. FT. PER LIN. FT. = 50 LIN. FT.
- LINEAR FEET OF GST 6212 GEOMATRIX PROVIDED. = 52 LIN. FT.
- MLSS = HF x FF x PF
SLOPE = 14.8%
RESTRICTIVE LAYER = MOTTLING @ 27"

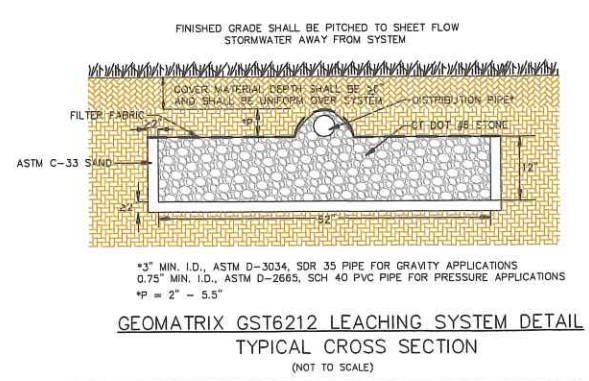
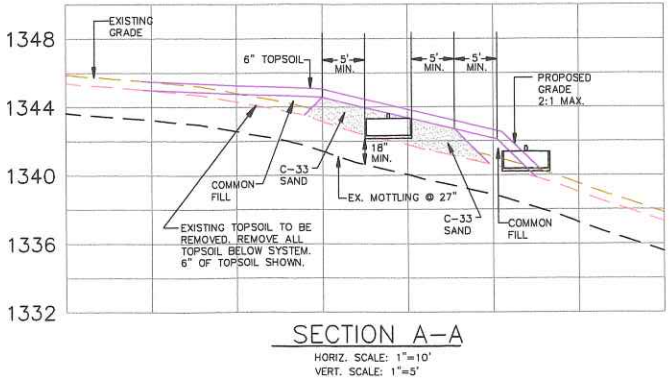
NOTE: IF A GARBAGE DISPOSAL OR HOT TUB IS TO BE INSTALLED IN THE PROPOSED HOUSE, IT IS RECOMMENDED THAT THE SEPTIC TANK SIZE BE INCREASED



SITE INFORMATION

TAX MAP DESIGNATION: TOWN OF NORFOLK MAP 8, BLOCK 12, LOT 8
 PROPERTY OWNER: CARLENE C. LAUHLIN 305 MOUNTAIN RD. NORFOLK, CT 06058
 APPLICANT: RICHARD E. MC CUE 58 WALTON STREET LAKEVILLE, CT 06039
 ZONED: RU - RURAL RESIDENTIAL
 LOT AREA: 57,549 ACRES

AEA
Allied Engineering Assoc. Inc.
 95 Main St. 3rd. Flr. East
 P.O. Box 726 North Canaan, Ct 06018
 860-824-1400 860-824-1401 Fax
 aea.george@gmail.com



LEGEND

- STONE WALL
- WIRE FENCE
- NO PHYSICAL BOUNDARY
- DECIDUOUS TREE
- CONIFEROUS TREE
- FOLIAGE LINE
- FENCE
- CATCH BASIN
- WETLAND BOUNDARY
- EXISTING CONTOUR
- PROPOSED CONTOUR
- SILT FENCE
- PROPOSED SPOT ELEVATION
- APPROX. LIMIT OF DISTURBED AREA
- TO BE REMOVED
- EXISTING
- GRADE TO DRAIN
- OBSERVATION PIT and/or PERCOLATION HOLE.

REVISIONS: NUMBER - DESCRIPTION - DATE - INITIAL
 1.) - REVISED PER TOWN REGULATIONS - 10/27/2023 - JMJ

PROPOSED SANITARY SEWAGE DISPOSAL SYSTEM DESIGN PLAN - GUEST HOUSE
 PREPARED FOR
 McCue/Lauhlin
 305 MOUNTAIN ROAD
 NORFOLK, CONNECTICUT

SCALE: 1"=20'
 FILE NAME: 984-SITE-17
 DATE: 09/21/2023
 ISSUED FOR: PERMITTING
 PROJECT NO. 984
 DRAWING NO. C-4

GENERAL NOTES – MAIN HOUSE

- TOPOGRAPHY, PROPERTY LINES, DIMENSIONS AND MISCELLANEOUS INFORMATION TAKEN FROM:
 - "MAP SHOWING PROPERTY OF, CARLENE C. LAUGHLIN, 305 MOUNTAIN ROAD, NORFOLK, CONNECTICUT, SCALE: 1"=100', APRIL 22, 2022" BY MATHIAS M. KEIFER, L.L.S. ©16101.
- TOPOGRAPHIC SURVEY DONE BY THIS OFFICE
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION. POTENTIAL PROBLEMS OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE CONSTRUCTION STARTS. THIS DESIGN IS SCHEMATIC, ADJUSTMENTS TO LOCATIONS, DIMENSIONS AND ELEVATIONS OF SEPTIC TANK AND LEACHING SYSTEM MAY BE NECESSARY TO CONFORM TO FIELD CONDITIONS. CHANGES IN THE DESIGN SHALL BE APPROVED BY THE LOCAL HEALTH DEPARTMENT, THE ENGINEER OR BOTH. STATE LAW REQUIRES: CALL BEFORE YOU DIG 1-800-922-4455 TO VERIFY THE LOCATION OF UNDERGROUND UTILITIES.
- MATERIALS USED FOR THE JOB AND CONSTRUCTION PRACTICES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND/OR THE CONNECTICUT STATE DEPARTMENT OF HEALTH PUBLIC HEALTH CODE SECTION 19-13-8103 A-F.
- SEPTIC TANK SHALL BE WATER TIGHT 1,250 GALLON PRECAST CONCRETE, 2 COMPARTMENT TANK OR LARGER. TANK SHALL BE PLACED LEVEL. TANK COVERS SHALL BE PLACED WITH NOTIFICATION THAT "ENTRANCE INTO THE TANK COULD BE FATAL". TANK COVERS SHALL BE EXTENDED TO GRADE WITH SUITABLE RISERS AS REQUIRED. PROVIDE H-20 LOADING IF USED UNDER DRIVEWAY OR PARKING AREA. TANK SHALL HAVE AN APPROVED NON-BYPASS EFFLUENT FILTER AT THE OUTLET. THE SEPTIC TANK SHALL BE OF THE SIZE INDICATED AND SHALL BE PRECAST REINFORCED CONCRETE AS MANUFACTURED BY A. RICHARD SEPTIC SYSTEMS, INC., TORRINGTON, CONNECTICUT OR APPROVED EQUAL. IF A GARBAGE GRINDER IS INSTALLED IN THE HOUSE THE CAPACITY OF THE SEPTIC TANK SHALL BE INCREASED BY 250 GALLONS. IF LARGE TUB IS INSTALLED IN THE HOUSE, THE CAPACITY OF THE SEPTIC TANK SHALL BE INCREASED BY 250 GALLONS FOR A 100-200 GALLON TUB OR 500 GALLONS FOR A TUB OVER 200 GALLONS.
- PROVIDE 1'-3" MINIMUM COVER OVER SEPTIC TANK. TANKS INSTALLED IN DRIVE OR PARKING AREAS SHALL BE DESIGNED FOR H-20 LOADING.
- ALL PIPE USED SHALL CONFORM TO STATE OF CONNECTICUT, DEPARTMENT OF HEALTH STANDARDS AND SHALL HAVE 1'-0" MINIMUM COVER OVER TOP OF PIPE.
- THE PRECAST CONCRETE DISTRIBUTION BOX SHALL BE SET LEVEL TO PROVIDE EVEN FLOW TO BOTH SIDES. BOX SHALL BE SET ON 6" MIN. DEEP PAD OF COMPACTED GRAVEL OR 1" CRUSHED STONE.
- THE SANITARY SEWAGE DISPOSAL SYSTEM CONSISTS OF 1 ROW OF GEOMATRIX GST 6218 FOR A TOTAL LENGTH OF 66 LF. 66 LF X 14.0 SF/LF=924 SF EFFECTIVE AREA PROVIDED. A 5 BEDROOM HOUSE REQUIRES 900 SF MIN LEACHING AREA.
- THE BACKFILL USED IN ALL SANITARY SEWAGE DISPOSAL SYSTEM TRENCHES SHALL BE AS SPECIFIED ON PLAN OR OTHER ACCEPTABLE MATERIAL MEETING THE SPECIFICATIONS OF THE STATE OF CONNECTICUT, DEPARTMENT OF HEALTH AND/OR LOCAL HEALTH DEPARTMENT.
- SURFACE WATER SHALL BE DIVERTED FROM THE SANITARY SEWAGE DISPOSAL SYSTEM AREA BY MEANS OF GRADING.
- THE DEVELOPER OR OWNER OR BOTH SHALL BE RESPONSIBLE FOR ALL RIGHTS OF WAYS AND RIGHTS TO DRAIN.
- NO SUBSURFACE INVESTIGATIONS WERE MADE OTHER THAN THOSE INDICATED. SUBSURFACE PROBLEMS ARE THE RESPONSIBILITY OF THE OWNER. THE EXACT LOCATIONS OF ANY UNDERGROUND UTILITIES ARE UNKNOWN AND ARE THE RESPONSIBILITY OF THE OWNER SHOULD ANY BE ENCOUNTERED DURING THE INSTALLATION OF THE SANITARY SYSTEM.
- THE SEPTIC SYSTEM IS FOR SANITARY SEWAGE DISPOSAL ONLY. ALL STORM WATER, COOLING WATER, WATER SOFTENER RESIDUES, SUBSOIL DRAINAGE AND OBJECTIONABLE INDUSTRIAL WASTES ARE TO BE EXCLUDED FROM THE SYSTEM.
- THE OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
- NO AIR CONDITIONING, REFRIGERATION, WATER SOFTENER RESIDUES, OR DRAINAGE (SURFACE OR SUBSURFACE) MAY BE CONNECTED TO THE SANITARY SEWAGE DISPOSAL SYSTEM.
- HOUSE FOOTING DRAINS SHALL BE KEPT 25' MIN. FROM ANY PART OF THE SANITARY SEWAGE DISPOSAL SYSTEM.
- THERE ARE NO KNOWN WELLS WITHIN 75' OF THE PROPOSED SANITARY SEWAGE DISPOSAL SYSTEM.
- NO SUBSURFACE SEWAGE DISPOSAL SYSTEM SHALL BE CONSTRUCTED, ALTERED, REPAIRED OR EXTENDED WITHOUT AN APPROVAL TO CONSTRUCT ISSUED IN ACCORDANCE WITH THE CURRENT PUBLIC HEALTH CODE. NO DISCHARGE SHALL BE INITIATED TO A SUBSURFACE SEWAGE DISPOSAL SYSTEM WITHOUT A DISCHARGE PERMIT ISSUED IN ACCORDANCE WITH THE CURRENT PUBLIC HEALTH CODE. SUCH PERMITS AND APPROVALS SHALL BE ISSUED AND ADMINISTERED BY THE LOCAL DIRECTOR OF HEALTH.
- WHILE THE SEWAGE DISPOSAL SYSTEM IS UNDER CONSTRUCTION, THE LOCAL DIRECTOR OF HEALTH MAY REQUIRE THAT THE CONSTRUCTION BE SUPERVISED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CONNECTICUT, IF IN THE OPINION OF THE LOCAL DIRECTOR OF HEALTH IT IS NECESSARY TO INSURE CONFORMANCE TO THE PLANS APPROVED OR BECAUSE OF THE DIFFICULTIES LIKELY TO BE ENCOUNTERED. THE ENGINEER SHALL MAKE A RECORD DRAWING OF THE SEWAGE DISPOSAL SYSTEM, AS INSTALLED, WHICH HE SHALL SUBMIT TO THE LOCAL DIRECTOR OF HEALTH PRIOR TO THE ISSUANCE OF A DISCHARGE PERMIT.
- THERE ARE NO SOURCES OF CONTAMINATION WITHIN 75 FT. OF PROPOSED WELL SITE.
- THE SYSTEM MUST BE INSTALLED WHEN SOIL MOISTURE IS LOW.
- CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING ADJACENT TO TREES.
- "AN 'AS-BUILT' PLAN MUST BE PREPARED AND SUBMITTED TO THE LOCAL HEALTH DEPARTMENT, WITHIN 30 DAYS OF THE INSPECTION BY THE ENGINEER/SURVEYOR."
- "FOR LEACHING SYSTEMS CONSTRUCTED WITH THE BOTTOMS IN FILL, A MINIMUM OF TWO PERCOLATION TESTS MUST BE CONDUCTED IN THE FILL MATERIAL BEFORE THE LEACHING SYSTEM CAN BE INSTALLED."
- "NO BALLAST IS REQUIRED FOR THE SEPTIC TANK OR PUMP CHAMBER PROVIDED THAT A MINIMUM OF 1.25' OF COVER IS MAINTAINED."
- "AN IN-PLACE SIEVE TEST OF THE 'SELECT FILL' MATERIAL ON SITE TO BE CONDUCTED AS PART OF THE FILL APPROVAL PROCESS. THE TEST RESULTS FOR A COMPOSITE SAMPLE COLLECTED BY THE ENGINEER OR TESTING LAB MUST BE PROVIDED TO THE LOCAL HEALTH DEPARTMENT PRIOR TO ISSUANCE OF THE PERMIT TO DISCHARGE."

SOIL TEST DATA – MAIN

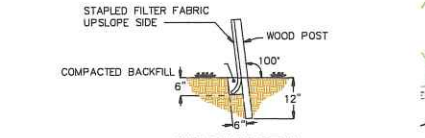
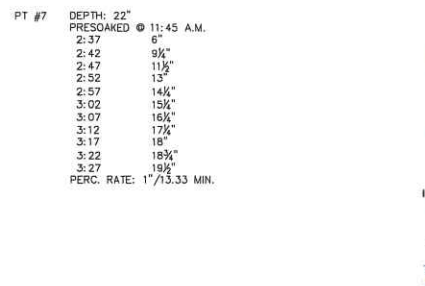
DATE OF TESTING: 09/01/2022

DP #17 0"-6" TOPSOIL & FOREST LITTER
6"-35" YELLOW BROWN VERY FINE SILTY SANDY LOAM W/BLDRS
35"-52" OLIVE BROWN VERY FINE SILTY SANDY LOAM W/BLDRS
MOTTLING @ 35"
ROOTS TO 30"
NO WATER
LEDGE @ 35"

DP #18 0"-4" TOPSOIL & FOREST LITTER
4"-16" BROWN VERY FINE SILTY SANDY LOAM W/BLDRS
16"-52" YELLOW BROWN VERY FINE SILTY SANDY LOAM W/BLDRS
52"-47" OLIVE BROWN VERY FINE SILTY SANDY LOAM W/COBBLES
MOTTLING @ 52"
ROOTS TO 40"
NO WATER
LEDGE @ 37"

DATE OF TESTING: 09/20/2022

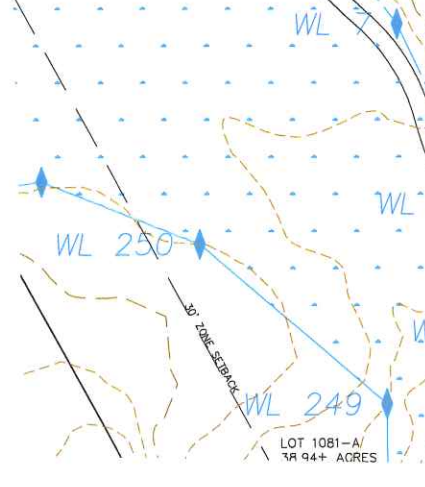
PT #7 DEPTH: 22"
PRESOAKED @ 11:45 A.M.
2:37 6"
2:42 9 1/2"
2:47 11 1/2"
2:52 13"
2:57 14 1/2"
3:02 15 1/2"
3:07 16 1/2"
3:12 17 1/2"
3:17 18"
3:22 18 1/2"
3:27 19 1/2"
PERC. RATE: 1" / 13.33 MIN.



- EXCAVATE 6"x6" TRENCH ON THE UPSLOPE SIDE OF THE FENCE LOCATION.
- DRIVE SUPPORT POSTS ON THE DOWN SLOPE SIDE OF THE TRENCH TO A DEPTH OF AT LEAST 12" INTO ORIGINAL GROUND.
- ANGLE POSTS 10 DEGREES UPHILL TO OVER COMPENSATE FOR ANY SAGGING IN FENCE DUE TO PRESSURE FROM BUILT UP SEDIMENT.
- STAPLE OR SECURE GEOTEXTILE TO THE POSTS PER MANUFACTURER'S RECOMMENDATIONS SUCH THAT 6" OF FABRIC LIES IN THE TRENCH.
- BACKFILL THE TRENCH WITH THE EXCAVATED TRENCH MATERIAL OVER THE FABRIC. TAMP TO COMPACT THE SOIL.

GEOTEXTILE SILT FENCE DETAIL

NOT TO SCALE



C-33 FILL SAND MATERIAL SPECS

- SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE THREE (3) INCH SIEVE. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON
- THE #4 SIEVE (THIS IS THE GRAVEL PORTION OF THE SAMPLE).
- THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED.
- THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA:

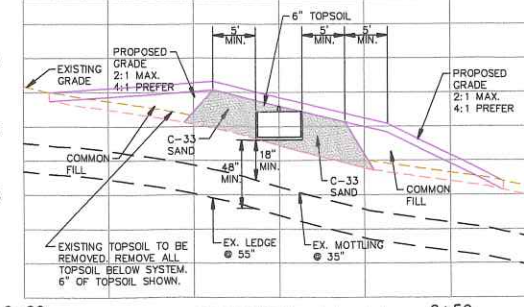
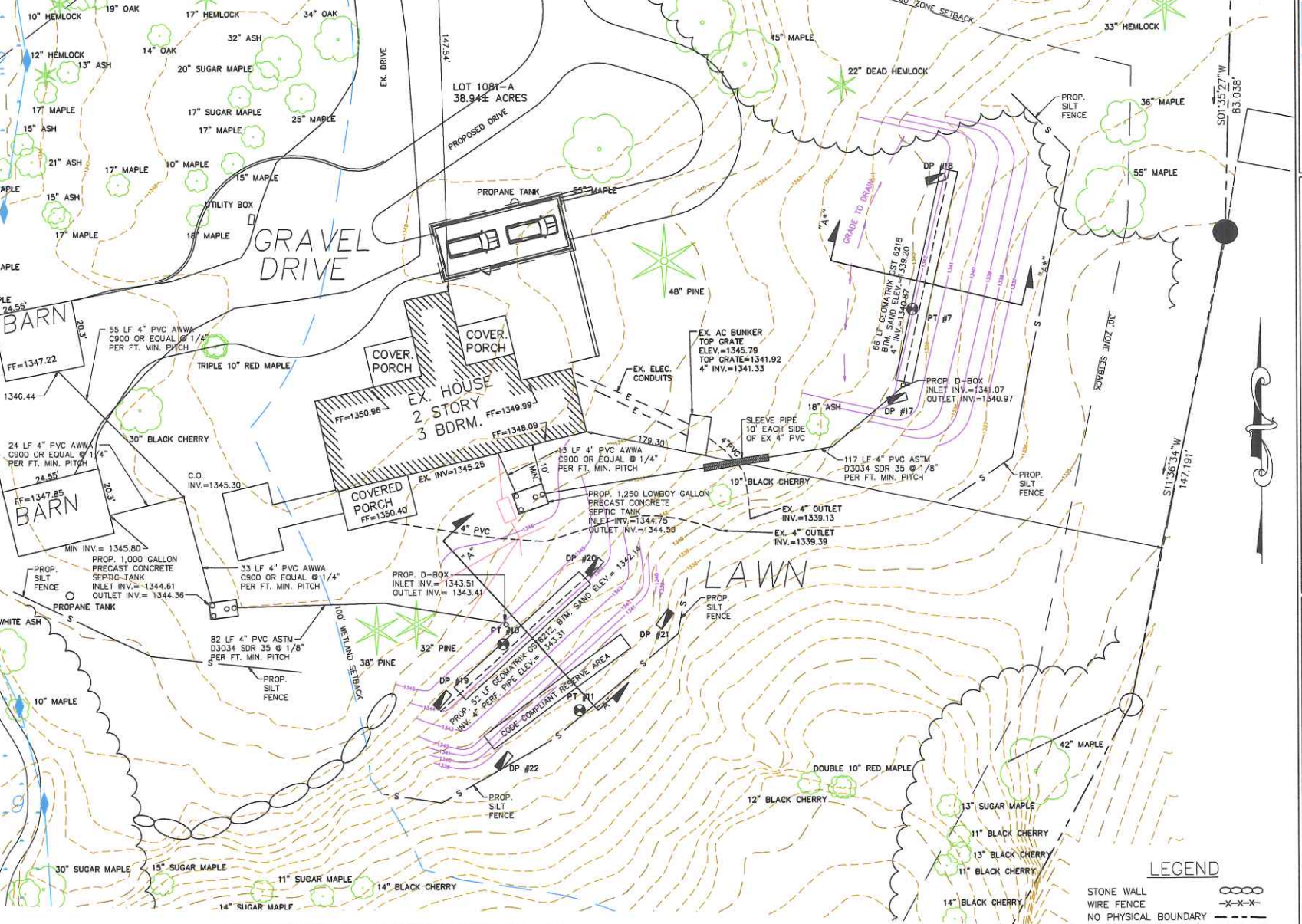
SELECT FILL SIEVE SIZE	PERCENT PASSING WET SIEVE	PERCENT PASSING DRY SIEVE	C-33 SIEVE SIZE	PERCENT PASSING
#4	100%	100%	#4	95.0-100.0%
#10	70-100%	70-100%	#8	80.0-100.0%
#40	10-50%	10-75%	#16	50.0-85.0%
#100	0-20%	0-5%	#30	25.0-60.0%
#200	0-5%	0-2.5%	#50	5.0-30.0%
			#100	< 10%
			#200	< 5%

*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% IF THE FILL FAILS THE DRY SIEVE BUT PASSES THE WET SIEVE, THEN THE FILL SHALL BE APPROVED.

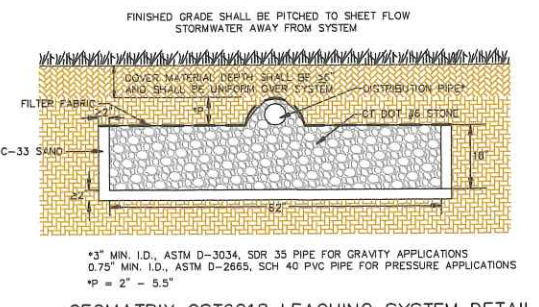
DESIGN DATA: LOT-1081-A-MAIN HOUSE

- NUMBER OF BEDROOMS = 5
- SEPTIC TANK SIZE REQUIRED AND PROVIDED = 1,250 GALLON
- PERCOLATION RATE USED FOR DESIGN = 10.1-20.0 MIN. PER 1"
- EFFECTIVE LEACHING AREA REQUIRED = 900 SQ. FT.
- LINEAR FEET OF GST 6218-GEOMATRIX REQUIRED. = 900 SQ. FT. / 14.0 SQ. FT. PER LIN. FT. = 64.28 LIN. FT.
- LINEAR FEET OF GST 6218-GEOMATRIX PROVIDED. = 66 LIN. FT.
- MLSS = HF x FF x PF = 20 x 2.0 x 1.25 = 50.0 LIN. FT.
SLOPE = 15%
RESTRICTIVE LAYER = MOTTLING @ 27", LEDGE @ 67"

NOTE: IF A GARBAGE DISPOSAL OR HOT TUB IS TO BE INSTALLED IN THE PROPOSED HOUSE, IT IS RECOMMENDED THAT THE SEPTIC TANK SIZE BE INCREASED



SECTION A-A*
HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=5'



GEOMATRIX GST6218 LEACHING SYSTEM DETAIL
TYPICAL CROSS SECTION
(NOT TO SCALE)

SITE INFORMATION

TAX MAP DESIGNATION: TOWN OF NORFOLK MAP 8, BLOCK 12, LOT 8
PROPERTY OWNER: CARLENE C. LAUGHLIN 305 MOUNTAIN RD. NORFOLK, CT 06058
APPLICANT: RICHARD E. MCUE 58 WALTON STREET LAKEVILLE, CT 06039
ZONED: RU – RURAL RESIDENTIAL
LOT AREA: 57.549 ACRES



1.) – REVISED PER TOWN REGULATIONS – 10/27/2023 – JMJ

PROPOSED SANITARY SEWAGE DISPOSAL SYSTEM DESIGN PLAN – MAIN HOUSE
PREPARED FOR McCue/Laughlin
305 MOUNTAIN ROAD NORFOLK, CONNECTICUT

SCALE: 1"=20'
FILE NAME: 984-SITE-17
DATE: 09/21/2023
ISSUED FOR: PERMITTING
PROJECT NO. 984
DRAWING NO. C-5

CONSTRUCTION NARRATIVE

- 1.1 PURPOSE AND DESCRIPTION OF THE PROJECT:
SUBDIVIDE EXISTING LOT INTO 3 LOTS, CREATE 2 NEW SINGLE FAMILY HOMES.
 - 1.2 THE TOTAL AREA OF THE SITE IS 53.329 ACRES
 - 1.3 THE SITE IS CURRENTLY OCCUPIED BY ONE SINGLE FAMILY HOME.
 - 1.4 THE ANTICIPATED START DATE FOR THE PROJECT IS JANUARY 2024 WITH A COMPLETION DATE OF SEPTEMBER 2024. (DATES ARE SUBJECT TO CHANGE.)
 - 1.5 THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION & SEDIMENT CONTROL ARE TO BE CONSIDERED AS PART OF THESE PLANS.
- 2.0 CONSTRUCTION SEQUENCE:
 1. OBTAIN ALL NECESSARY PERMITS.
 2. FLAG THE LIMITS OF CONSTRUCTION NECESSARY TO FACILITATE A PRECONSTRUCTION MEETING.
 3. CONTACT CALL-BEFORE-YOU-DIG (1-800-922-4455) TO MARK OUT LOCATION OF ALL EXISTING UTILITIES ON AND ADJACENT TO SITE.
 4. INSTALL EROSION CONTROL MEASURES AS SHOWN ON PLAN.
 5. EXCAVATE FOR AND CONSTRUCT NEW PORTIONS OF FOUNDATION (2 WEEKS)
 6. BACK FILL FOUNDATIONS AND ADJACENT AREAS. (1 WEEK)
 7. CONSTRUCT BUILDING MODIFICATIONS AND NEW PORTIONS OF BUILDING (3 MONTHS)
 8. INSTALL NEW SEPTIC SYSTEM (1 WEEK)
 9. RECONFIGURE DRIVEWAYS AND PAYE. (2 WEEKS)
 10. INSTALL LANDSCAPING (1 WEEK)
 11. FINAL GRADE DISTURBED AREAS. PLACE TOPSOIL ON ALL AREAS NOT BEING USED FOR BUILDING OR DRIVEWAY.
 12. SEED, MULCH AND FERTILIZE ALL DISTURBED AREAS PER SPECIFICATIONS ON PLANS.
 13. FINE GRADE, RAKE, SEED AND MULCH.
 14. REMOVE SEDIMENTATION AND EROSION CONTROL MEASURES ONLY AFTER ALL AREAS ARE STABILIZED AND WHEN IT IS AUTHORIZED BY MUNICIPAL OFFICIAL.
 15. THE PERSON RESPONSIBLE FOR THE PROPER IMPLEMENTATION OF THE DESIGN AND/OR FIXING ANY POTENTIAL PROBLEMS IS THE APPLICANT OR HIS DESIGNEE.
- TELEPHONE 860-913-6469

- 2.1 THIS PROJECT WILL REQUIRE APPROVAL FROM:
THE TOWN OF NORFOLK PLANNING & ZONING COMMISSION.
THE TOWN OF NORFOLK INLAND WETLANDS COMMISSION.
TORRINGTON AREA HEALTH DISTRICT

TEMPORARY SEEDING

SELECT GRASS SPECIES APPROPRIATE FOR THE SEASON AND SITE CONDITIONS FROM FIGURE TS-2 BELOW. SEED WITH A TEMPORARY SEED MIXTURE WITHIN 7 DAYS AFTER THE SUSPENSION OF GRADING WORK IN DISTURBED AREAS WHERE THE SUSPENSION OF WORK IS EXPECTED TO BE MORE THAN 30 DAYS BUT LESS THAN 1 YEAR. SEEDING OUTSIDE THE OPTIMUM SEEDING DATES GIVEN IN FIGURE TS-2 MAY RESULT IN EITHER INADEQUATE GERMINATION OR LOW PLANT SURVIVAL RATES, REDUCING EROSION CONTROL EFFECTIVENESS.

INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, SEDIMENT BASINS AND GRASSED WATERWAYS IN ACCORDANCE WITH THE APPROVED PLAN.

GRADE ACCORDING TO PLANS AND ALLOW FOR THE USE OF APPROPRIATE EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE APPROVED PLANS.

LOSEN THE SOIL TO A DEPTH OF 3-4 INCHES WITH A SLIGHTLY ROUGHENED SURFACE. IF THE AREA HAS BEEN RECENTLY LOOSENED OR DISTURBED, NO FURTHER ROUGHENING IS REQUIRED.

SOIL PREPARATION CAN BE ACCOMPLISHED BY TRACKING WITH A BULLDOZER, DISCING, HARROWING, RAKING OR DRAGGING WITH A SECTION OF CHAIN LINK FENCE. AVOID EXCESSIVE COMPACTION OF THE SURFACE BY EQUIPMENT TRAVELING BACK AND FORTH OVER THE SURFACE. IF THE SLOPE IS TRACKED, THE CLEAT MARKS SHALL BE PERPENDICULAR TO THE ANTICIPATED DIRECTION OF THE FLOW OF SURFACE WATER.

APPLY GRADE LIME AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS (SUCH AS THOSE OFFERED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY OR OTHER RELIABLE SOURCE).

SOIL SAMPLE ANALYSES ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SYSTEM OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQ. FT. OF 10-10-10 OR EQUIVALENT. ADDITIONALLY, LIME MAY BE APPLIED USING RATES GIVEN IN FIGURE TS-1.

SOIL TEXTURE	TONS / ACRE OF LIME	LBS. / 1,000 SQ. FT. OF LIME
CLAY, CLAY LOAM AND HIGH ORGANIC SOIL	1.5	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, MULTIPACKER TYPE SEEDER OF HYDROSEEDER AT A MINIMUM RATE FOR THE SELECTED SEED IDENTIFIED IN FIGURE TS-2. INCREASE SEEDING RATES BY 10% WHEN HYDROSEEDING.

TEMPORARY SEEDINGS MADE DURING OPTIMUM SEEDING DATES SHALL BE MULCHED. NOTE WHEN SEEDING OUTSIDE OF THE OPTIMUM SEEDING DATES, INCREASE THE APPLICATION OF MULCH TO PROVIDE 95%-100% COVERAGE.

INSPECT SEEDS AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCHES OR GREATER FOR SEED AND MULCH MOVEMENT AND RILL EROSION. WHERE SEED HAS MOVED OR WHERE SOIL EROSION HAS OCCURRED, DETERMINE THE CAUSE OF THE FAILURE. BIRD FEEDING MAY BE A PROBLEM IF MULCH WAS APPLIED TOO THINLY TO PROTECT SEED. RE-SEED AND RE-MULCH. IF MOVEMENT WAS THE RESULT OF WIND, THEN REPAIR EROSION DAMAGE (IF ANY), REAPPLY SEED AND MULCH AND APPLY MULCH ANCHORING. IF FAILURE WAS CAUSED BY CONCENTRATED RUNOFF, INSTALL ADDITIONAL MEASURES TO CONTROL WATER AND SEDIMENT MOVEMENT, REPAIR EROSION DAMAGE, RE-SEED AND RE-APPLY MULCH WITH ANCHORING OR USE TEMPORARY EROSION CONTROL BLANKET. CONTINUE INSPECTIONS UNTIL THE GRASSES ARE FIRMLY ESTABLISHED. GRASSES SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED WHICH IS MATURE ENOUGH TO CONTROL SOIL EROSION AND TO SURVIVE SEVERE WEATHER CONDITIONS (APPROXIMATELY 60% VEGETATIVE SURFACE COVER).

NO INVASIVE PLANT SPECIES WILL BE ALLOWED IN TEMPORARY SEED MIXES.

STOCKPILE MANAGEMENT

STOCKPILE MANAGEMENT OF TOPSOIL AND OTHER TYPES OF ERODIBLE SOILS IS NECESSARY TO PREVENT UNNECESSARY DAMAGE RESULTING FROM EROSION OF STOCKPILE MATERIAL. LOCATE STOCKPILES SO THAT NATURAL DRAINAGE IS NOT OBSTRUCTED. ATTEMPT TO MAXIMIZE THE DISTANCE OF STOCKPILES FROM WETLANDS, WATERCOURSES, DRAINAGE WAYS, AND STEEP SLOPES. WHEN THE STOCKPILE IS DOWN GRADIENT FROM A LONG SLOPE, DIVERT RUNOFF WATER AWAY FROM OR AROUND THE STOCKPILE. INSTALL A GEOTEXTILE SILT FENCE OR HAY BALE BARRIER AROUND THE STOCKPILE AREA APPROXIMATELY 10 FEET FROM THE PROPOSED TOE OF THE SLOPE.

THE SIDE SLOPES OF STOCKPILED MATERIAL THAT IS ERODIBLE SHOULD BE NO STEEPER THAN 2:1. STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS NEED TO BE SEEDED AND MULCHED IMMEDIATELY AFTER FORMATION OF THE STOCKPILE. THE SEED MIX USED DEPENDS UPON THE STOCKPILED MATERIAL AND THE LENGTH OF TIME IT IS TO REMAIN STOCKPILED. INFORMATION GATHERED FROM SOIL BORINGS AND SOIL DELINEATIONS CAN BE USED TO PLAN THE TYPE OF SEED AND ANY SOIL AMENDMENTS THAT ARE APPROPRIATE FOR THE STOCKPILE. AFTER THE STOCKPILE HAS BEEN REMOVED, THE SITE SHOULD BE GRADED AND PERMANENTLY STABILIZED.

IF A STOCKPILE IS LOCATED OFF-SITE, LOCAL ZONING APPROVAL MAY BE REQUIRED. IN ADDITION TO THE ABOVE CRITERIA, STOCKPILES THAT ARE LOCATED OFF-SITE REQUIRE A CONSTRUCTION ENTRANCE PAD INSTALLED AT THAT SITE. DEPENDING ON THE VOLUME OF TRAFFIC, THE INSTALLATION OF "TRUCK CROSSING" SIGNS AND SWEEPING OF THE ROADWAY MAY ALSO BE NECESSARY.

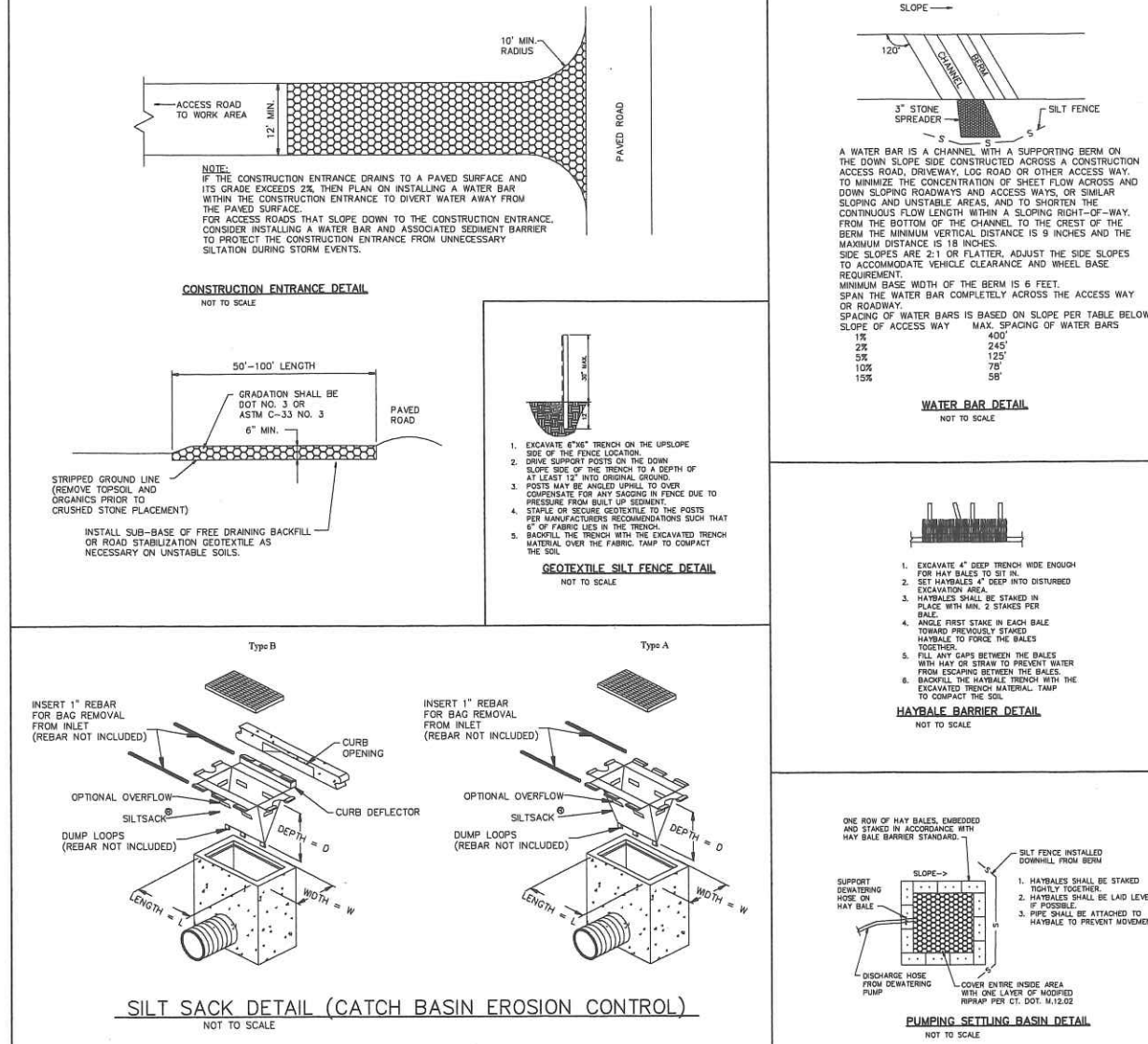
AREA TO BE SEEDED	MIXTURE NUMBER (1)	
	MOWING DESIRED	MOWING NOT REQUIRED
BORROW AREAS, ROADSIDES, DIKES, LEVEES, POND BANKS AND OTHER SLOPES AND BANKS		
A) WELL OR EXCESSIVELY DRAINED SOILS (2)	1, 2, 3, 4, 5 OR 8	5, 6, 7, 8, 9, 10, 11, 12, 16 OR 22
B) SOMEWHAT POORLY DRAINED SOILS (2)	2	5 OR 6
C) VARIABLE DRAINAGE SOILS (2)	2	5, 6 OR 11
DRAINAGE DITCH AND CHANNEL BANKS		
A) WELL OR EXCESSIVELY DRAINED SOILS (2)	1, 2, 3 OR 4	9, 10, 11 OR 12
B) SOMEWHAT POORLY DRAINED SOILS (2)	2	
C) VARIABLE DRAINAGE SOILS (2)	2	
DIVERSIONS		
A) WELL OR EXCESSIVELY DRAINED SOILS (2)	2, 3 OR 4	9, 10 OR 11
B) SOMEWHAT POORLY DRAINED SOILS (2)	2	
C) VARIABLE DRAINAGE SOILS (2)	2	
EFFLUENT DISPOSAL		
GRAVEL PITS (3)		5 OR 6
GULLIED AND ERODED AREAS		26, 27 OR 28
MINESPOIL & WASTE, AND OTHER SPOIL BANKS OF TOXIC SUBSTANCES & PHYSICAL PROPERTIES NOT LIMITING (3)		3, 4, 5, 8, 10, 11 OR 12
SHORELINES (FLUCTUATING WATER LEVELS)		15, 16, 17, 18, 26, 27 OR 28
SKI SLOPES		5 OR 6
SOD WATERWAYS AND SPILLWAYS	1, 2, 3, 4, 6, 7 OR 8	4 OR 10
SUNNY RECREATION AREAS (PICNIC AREAS AND PLAYGROUNDS FOR DRINKING AND ARCHERY RANGES, NATURE TRAILS)	1, 2, 3 OR 23	1, 2, 3, 4, 6, 7 OR 8
CAMPING AND PARKING, NATURE TRAILS (SHADED)	19, 21 OR 23	
SAND DUNES (BLOWING SAND)	25	
WOODLAND ACCESS ROADS, SKID TRAILS AND LOG YARDING AREAS		9, 10, 16, 22 OR 26
LAWNS AND HIGH MAINTENANCE AREAS	1, 19, 21 OR 22	

(1) THE NUMBERS FOLLOWING IN THESE COLUMNS REFER TO SEED MIXTURES IN FIGURE PS-3. MIXES FOR SHADY AREAS ARE UNDERLINED (INCLUDING MIXES 20 THROUGH 24).

(2) SEE COUNTY SOIL SURVEY FOR DRAINAGE CLASS. SOIL SURVEYS ARE AVAILABLE FROM THE COUNTY SOIL AND WATER CONSERVATION DISTRICT OFFICE.

(3) USE MIX 26 WHEN SOIL PASSING A 200 MESH SIEVE IS LESS THAN 15% OF TOTAL WEIGHT. USE MIX 26 & 27 WHEN SOIL PASSING A 200 MESH SIEVE IS BETWEEN 15% AND 20% OF TOTAL WEIGHT. USE MIX 26, 27 AND 28 WHEN SOIL PASSING A 200 MESH SIEVE IS ABOVE 20% OF TOTAL WEIGHT.

TYPICAL EROSION CONTROL DETAILS



SPECIES (4)	SEEDING RATES (LBS) / ACRE	SEED DEPTH (INCHES)	OPTIMUM SEEDING DATES (1)											PLANT CHARACTERISTICS	
			OPTIMUM SEED DEPTH (2)												
			3/1	4/1	5/1	6/1	7/1	8/1	9/1	10/1	3/15	4/15	5/15		6/15
ANNUAL RYEGRASS LOLIUM MULTIFLORUM	40	1.0	0.5	[Pattern of shading]											MAY BE ADDED IN MIXES. WILL MOW OUT OF MOST STANDS.
PERENNIAL RYEGRASS LOLIUM PERENNE	40	1.0	0.5	[Pattern of shading]											USE FOR WINTER COVER. TOLERATES COLD AND LOW MOISTURE.
WINTER RYE SECALE CEREALE	120	3.0	1.0	[Pattern of shading]											QUICK GERMINATION AND HEAVY SPRING GROWTH. DIES BACK IN JUNE WITH LITTLE REGROWTH.
OATS AVENA SATIVA	88	2.0	1.0	[Pattern of shading]											IN NORTHERN CT. WILL WINTER KILL WITH THE FIRST KILLING FROST AND MAY THROUGHOUT THE STATE IN SEVERE WINTERS.
WINTER WHEAT TRITICUM AESTIVUM	120	3.0	1.0	[Pattern of shading]											QUICK GERMINATION WITH MODERATE GROWTH. DIES BACK IN JUNE WITH NO REGROWTH.
MILLET ECHINOCHLOA CRUSGALLI	20	0.5	1.0	[Pattern of shading]											WARM SEASON SMALL GRAIN. DIES WITH FROST IN SEPTEMBER.
SUDANGRASS AORGHUM SUDANENSE	30	0.7	1.0	[Pattern of shading]											TOLERATES WARM TEMPERATURES AND DROUGHTY CONDITIONS.
BUCKWHEAT FAGOPYRUM ESCULENTUM	15	0.4	1.0	[Pattern of shading]											HARDY PLANT THAT WILL RESEED ITSELF AND IS GOOD AS A GREEN MANURE CROP.
WEEDING LOVEGRASS ERAGOSTIS CURBULA	5	0.2	0.25	[Pattern of shading]											WARM SEASON PERENNIAL. MAY BUNCH. TOLERATES HOT, DRY SLOPES. ACID INFERTILE SOILS. EXCELLENT NURSE CROP. USUALLY WINTER KILLS.
DOT ALL PURPOSE MIX (3)	150	3.4	0.5	[Pattern of shading]											SUITABLE FOR ALL CONDITIONS.

(1) MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR CAN BE IRRIGATED. FALL SEEDING MAY BE EXTENDED 15 DAYS IN THE COASTAL TOWNS.

(2) SEED AT TWICE THE INDICATED DEPTH FOR SANDY SOILS.

(3) SEE PERMANENT SEEDING FIGURE PS-3 FOR SEEDING MIXTURE REQUIREMENTS.

(4) LISTED SPECIES MAY BE USED IN COMBINATIONS TO OBTAIN A BROADER TIME SPECTRUM. IF USED IN COMBINATIONS, REDUCE EACH SPECIES PLANTING RATE BY 20% OF THAT LISTED.

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PROPOSED EROSION AND SEDIMENTATION CONTROL PLAN
PREPARED FOR
MCCUE/LAUGHLIN
305 MOUNTAIN ROAD
NORFOLK, CONNECTICUT

SCALE: AS NOTED
FILE NAME: 982-ES
DATE: 10/27/2023
ISSUED FOR: PERMITTING

PROJECT NO. 984
DRAWING NO. ES-1

