

**TEST PIT RESULTS**

OBSERVED BY: BRITTANY OTTO  
DATE: NOVEMBER 24, 2021  
NDDH FILE NO. 22000122

**PIT NO. 1**

0' - 7" TOPSOIL & ORGANICS  
7 - 26" BROWN SANDY LOAM  
26 - 72" MOTTLED GRAY FINE SANDY LOAM, COMPACT

MOTTLING: 26"  
RESTRICTIVE: 26"  
LEDGE: N/A  
WATER: N/A

**PIT NO. 2**

0' - 8" TOPSOIL & ORGANICS  
8 - 24" BROWN SANDY LOAM  
24 - 56" MOTTLED GRAY FINE SANDY LOAM, COMPACT  
56 - 67" GROUNDWATER

MOTTLING: 24"  
RESTRICTIVE: 24"  
LEDGE: N/A  
WATER: 56", SEEPS @ 44"

**PIT NO. 3**

0' - 7" TOPSOIL & ORGANICS  
7 - 26" BROWN SANDY LOAM  
26 - 40" MOTTLED GRAY FINE SANDY LOAM, COMPACT  
40 - 64" GROUNDWATER

MOTTLING: 26"  
RESTRICTIVE: 26"  
LEDGE: N/A  
WATER: 40", SEEPS @ 34"

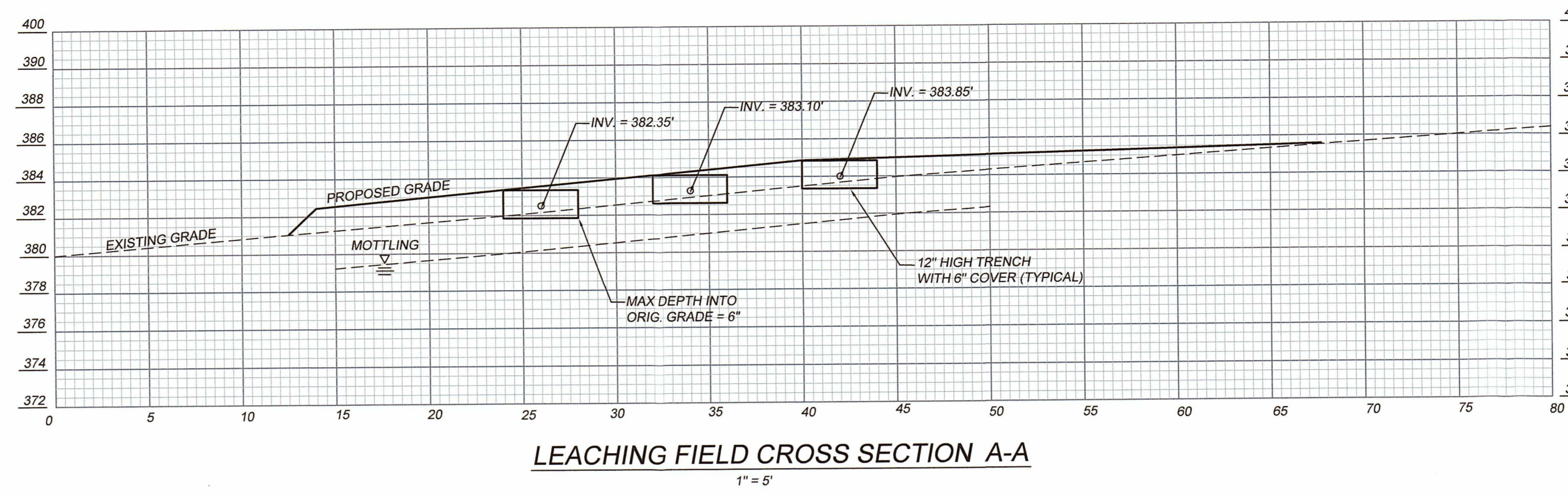
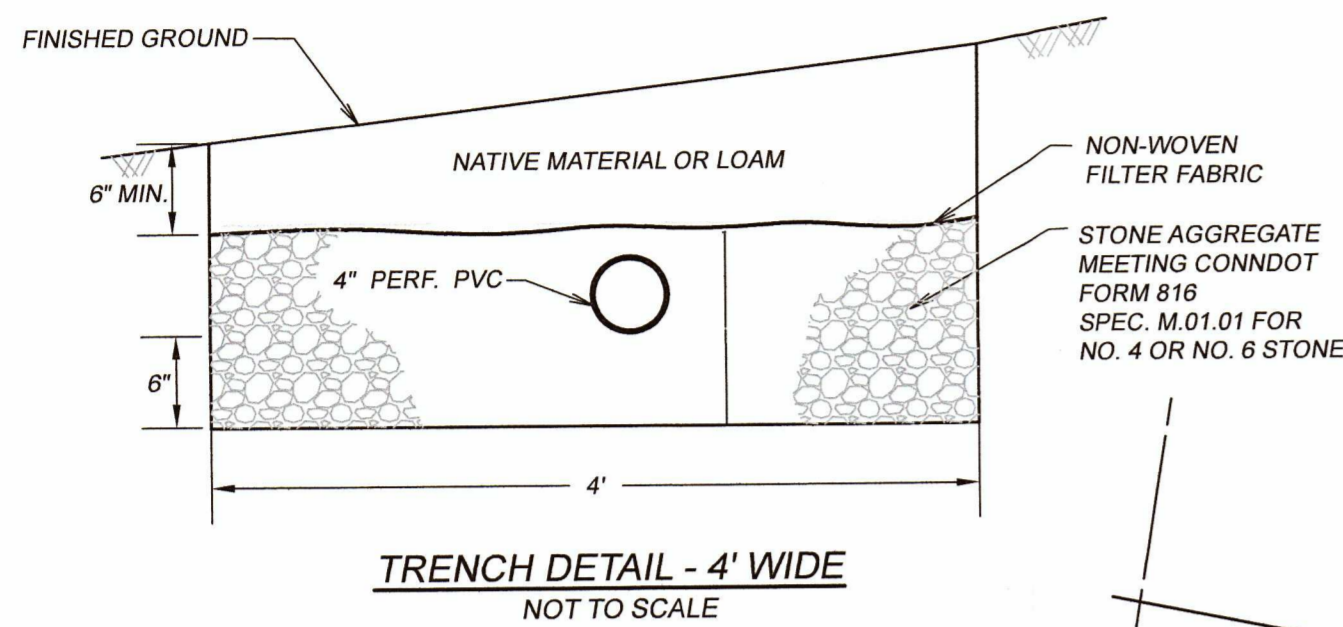
**PERC. TEST RESULTS**

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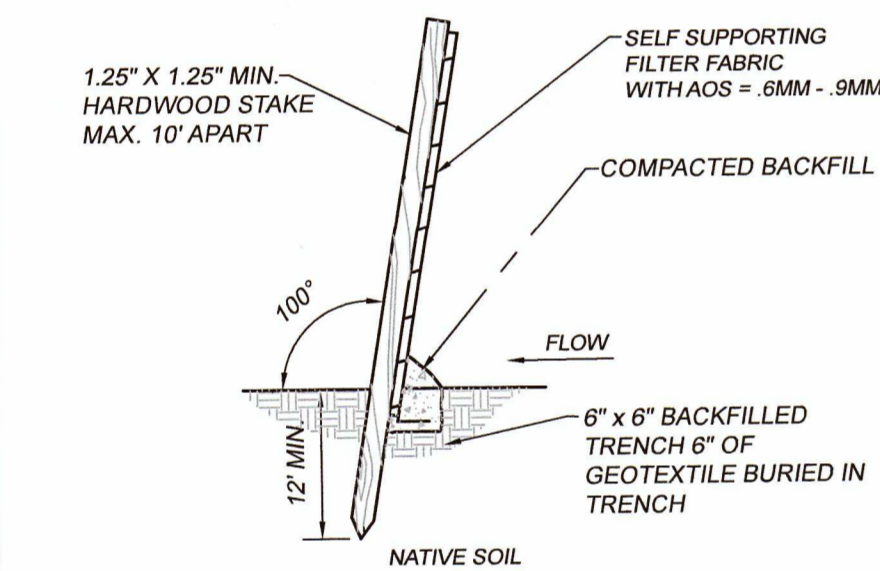
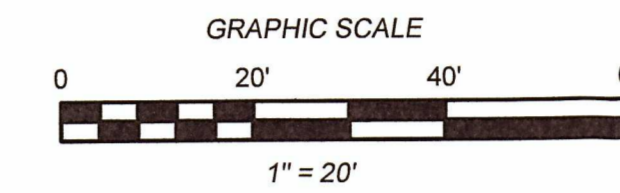
**HOLE A**

TIME	READING
10:09	3.0
10:14	6.125
10:19	8.25
10:24	9.75
10:29	11.25
10:34	12.25
10:39	13.0
10:44	13.75

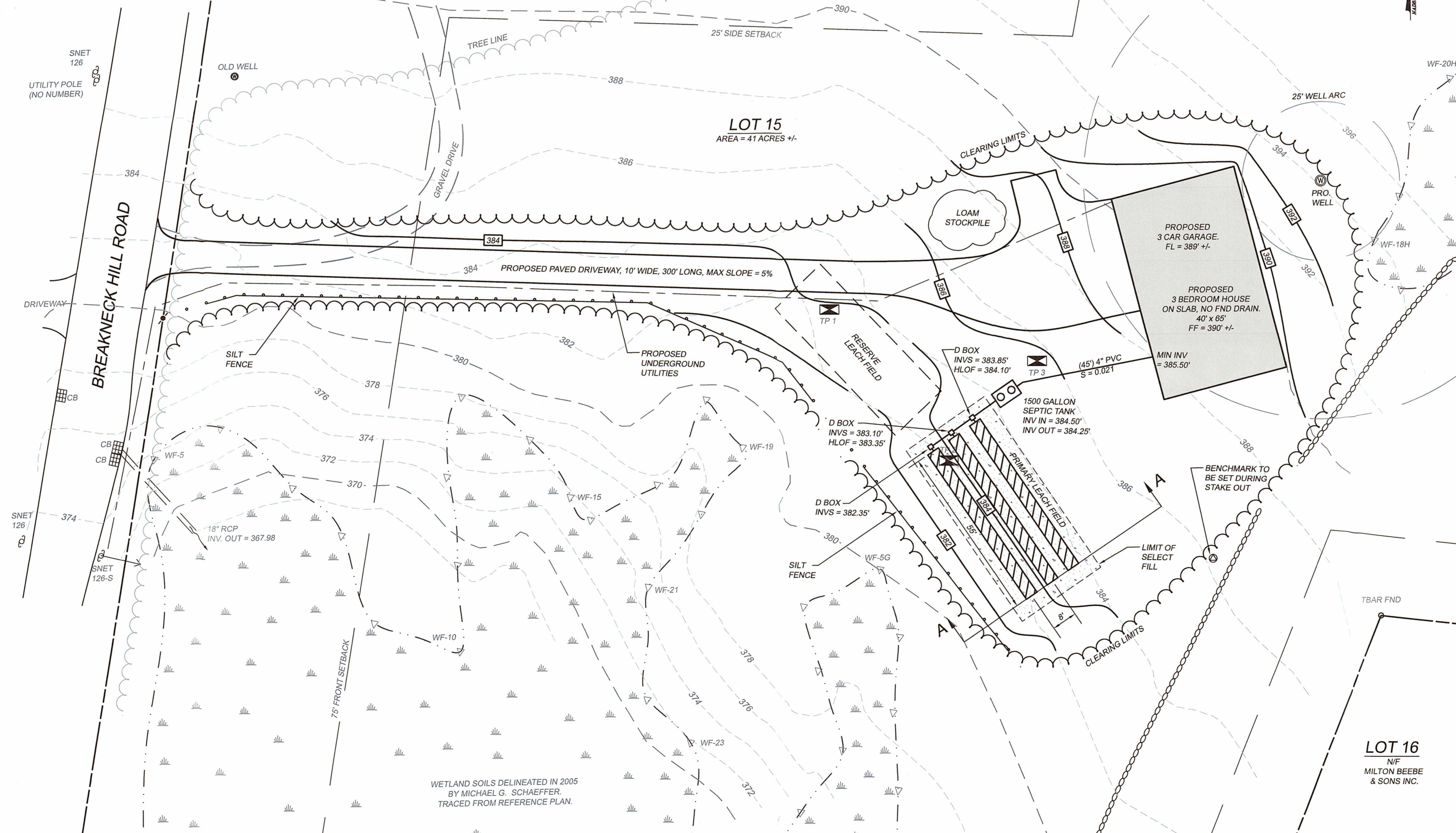
DEPTH: 19"  
RATE: 6.67 MIN/IN



**LEACHING FIELD CROSS SECTION A-A**  
1" = 5'



**SILT FENCE INSTALLATION**  
NOT TO SCALE



**SEPTIC SYSTEM NOTES**

NUMBER OF BEDROOMS: 3  
SEPTIC TANK: 1500 GALLON  
PERC RATE: 6.67 MINS/INCH  
MOTTLING: 24"; LEDGE: N/A; WATER: 40; RESTRICTIVE: 24"; SLOPE: 8.5%  
LEACHING AREA REQUIRED: 495 SQUARE FEET  
LEACHING AREA PROVIDED: (3) 55' TRENCHES AT 3 SF/LF = 495 SF  
MLSS (PRIMARY) = 42' (HF=28, FF = 1.5, PF = 1.0)  
LSS PROVIDED = 55'

**SPECIFICATIONS**  
SEPTIC SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH THE "CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS".

THE BUILDING, SEPTIC SYSTEM, AND WELL SHALL BE ACCURATELY STAKED IN THE FIELD BY A LICENSED SURVEYOR OR ENGINEER PRIOR TO CONSTRUCTION.

ALL PRECAST STRUCTURES SUCH AS SEPTIC TANKS AND DISTRIBUTION BOXES SHALL BE SET LEVEL ON SIX INCHES OF COMPACTED GRAVEL BASE.

SEPTIC TANK: TWO-COMPARTMENT TANK WITH OUTLET FILTER. INSTALL RISERS OVER TANK CLEANOUTS IF COVER OVER TANK EXCEEDS 1'.

DISTRIBUTION BOXES: 4 HOLE D-BOXES

HOUSE EFFLUENT AND "TIGHT PIPE" FOR DRAIN OUTLETS: 4" PVC SCHEDULE 40, ASTM D 1785 OR ASTM D 2685 WITH RUBBER COMPRESSION GASKET ASTM D 3139 OR SOLVENT WELD COUPLINGS.

DISTRIBUTION PIPE: 4" PVC PERFORATED, LAID LEVEL (MAX SLOPE 2" PER 100')

POLYLOK PIPE SEAL AS MANUFACTURED BY SUPERIOR SEPTIC TANKS (OR EQUAL) SHALL BE USED TO SEAL SEPTIC TANK AND D-BOX INLETS AND OUTLETS. BOTTOM OF TRENCHES TO BE LEVEL.

TOPSOIL SHALL BE STRIPPED IN AREA OF LEACH FIELD AND THE SUBSOIL SCARIFIED PRIOR TO PLACEMENT OF SELECT SEPTIC FILL.

ALL SELECT FILL SHALL BE CLEAN BANK RUN GRAVEL, MEETING THE FOLLOWING REQUIREMENTS OF THE CT DEPT. OF PUBLIC HEALTH:

SIEVE NO.	DRY PERCENT PASSING	WET PERCENT PASSING
NO. 4	100	100
NO. 10	70-100	70-100
NO. 40	10-75	10-50*
NO. 100	0-5	0-20
NO. 200	0-2.5	0-5

\* 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 MUST PERC AT A RATE EQUAL TO OR FASTER THAN THE UNDERLYING SOIL.

SELECT FILL MATERIAL SHALL EXTEND A MINIMUM OF 5' BEYOND THE LOWEST TRENCH BEFORE TAPERING OFF.

THIS DESIGN IS BASED ON TEST PIT INFORMATION RECORDED BY NDDH. J & D HAS MADE NO INDEPENDENT INVESTIGATION OF SOIL CONDITIONS. THE CONTRACTOR IS ADVISED TO PERFORM SUFFICIENT SITE INVESTIGATION TO DETERMINE CONSTRUCTIBILITY OF THE DESIGN PRIOR TO BIDDING OR COMMENCING WORK.

**EROSION AND SEDIMENT CONTROL NOTES:**

1. THE PROPOSED ACTIVITY ON THE SITE WILL CONSIST OF THE CONSTRUCTION OF A SINGLE FAMILY HOUSE, WELL, SEPTIC SYSTEM AND DRIVEWAY.
2. EROSION CONTROL DEVICES MUST BE INSTALLED WHERE INDICATED ON THIS SHEET PRIOR TO THE START OF CONSTRUCTION.
3. DISTURBED AREAS SHALL BE KEPT TO A MINIMUM AND SEEDED OR STABILIZED WITH TEMPORARY MULCH AS SOON AS FINAL GRADES HAVE BEEN ATTAINED.
4. THE OWNER OF RECORD SHALL DESIGNATE THE ON SITE ENVIRONMENTAL AGENT RESPONSIBLE FOR REGULARLY CHECKING THE CONDITION OF THE EROSION CONTROL DEVICES AND REMOVING ACCUMULATED SEDIMENT.

**LEGEND**

	BUILDING SETBACK LINE
	PROPERTY LINE
	EXISTING CONTOUR LINE
	PROPOSED CONTOUR LINE
	EDGE OF WETLANDS
	WETLAND BUFFER/UPLAND REVIEW AREA
	EROSION CONTROL DEVICES
	TEST PIT
	LEACHING TRENCH
	STONEWALL
	UTILITIES
	TREELINE

**SURVEY NOTES:**

1. THIS MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARD FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.
2. THE SURVEY TYPE IS TOPOGRAPHIC, PERFORMED IN NOVEMBER 2021, AND IS INTENDED TO BE USED FOR THE DESIGN OF AN ENGINEERED SEPTIC SYSTEM.
3. PROPERTY LINES DO NOT EXPRESS A BOUNDARY OPINION.
4. TEST PIT AND PERC TEST LOCATIONS HAVE BEEN COMPILED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. THIS INFORMATION IS TO BE CONSIDERED APPROXIMATE AND J & D CIVIL ENGINEERS DOES NOT TAKE RESPONSIBILITY FOR SUBSEQUENT ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THIS PLAN AS A RESULT.
5. REFERENCE PLAN: "GENERAL LOCATION PLAN FOR HUNDREDSHEIGHT RIDGE, PREPARED FOR CHRISTOPHER AND LORI WONG." BY MESSIER AND ASSOCIATES. DATED JULY 2005, REVISED OCTOBER 2006. SCALE 1" = 100'.
6. TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DENNIS R. BLANCHETTE DATE: 1/24/22 LICENSE NUMBER: 12107

THIS MAP IS NOT VALID WITHOUT A LIVE SIGNATURE © 2021 J&D CIVIL ENGINEERS, LLC

**SITE DEVELOPMENT PLAN**  
PREPARED FOR  
**PAUL LONARDO**  
54 BREAKNECK HILL ROAD, KILLINGLY, CT  
MAP 116 LOT 15

**J&D CIVIL ENGINEERS, LLC**  
401 RAVENELLE ROAD  
N. GROSVENORDALE, CT 06255  
860-923-2920

DESIGNED: **DRB**      REVISIONS:  
CHECKED: **DRB**

**JOB NO: 21269**      DATE: **JANUARY 24, 2022**  
**SCALE: 1" = 20'**      SHEET: **1 OF 1**