

EROSION AND SEDIMENTATION CONTROL NOTES:

- EROSION AND SEDIMENTATION CONTROL MEASURES TO BE INSTALLED AT THE TOE OF SLOPES OR AS SHOWN ON THE PLANS.
- ALL MEASURES TO BE INSTALLED PRIOR TO GROUND DISTURBANCE.
- TOPSOIL TO BE STRIPPED, STOCKPILED AND SEEDED IN ALL AREAS OF PROPOSED GRADING.
- EROSION CONTROL MEASURES TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS UNTIL DISTURBED AREAS ARE STABILIZED. ADDITIONAL CONTROL MEASURES MAY BE NECESSARY.
- THE OWNER OF RECORD / CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION CONTROLS.
- ALL EROSION AND SEDIMENTATION CONTROLS TO BE INSTALLED IN ACCORDANCE WITH THE 2002 CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

NOTES:

- THIS PLAN IS FOR THE DESIGN OF A SEPTIC SYSTEM IN ACCORDANCE WITH STATE AND LOCAL HEALTH CODES. IT IS NOT A GUARANTEE AGAINST FAILURE DUE TO LACK OF MAINTENANCE, MISUSE, IMPROPER INSTALLATION OR CONDITIONS WHICH WERE BEYOND THE NORMAL FIELD INVESTIGATION.
- THE SEPTIC SYSTEM IS DESIGNED FOR DOMESTIC SEWAGE ONLY.
- THE PURPOSE OF THIS PLAN IS FOR THE DESIGN OF THE SEPTIC SYSTEM ONLY. THE HOUSE, DRIVEWAY AND ASSOCIATED GRADING AND ELEVATIONS SHOWN FOR THESE ITEMS ARE FOR SCHEMATIC PURPOSES ONLY.
- BENCHMARK TO BE SET PRIOR TO CONSTRUCTION.
- THE SEPTIC SHALL BE STAKED OUT IN THE FIELD BY A LICENSED SURVEYOR.
- BOUNDARY INFORMATION BASED ON SHEPAUG CROSSING SUBDIVISION MAP.
- TOPOGRAPHIC INFORMATION BASED ON AERIAL SURVEY FROM SUBDIVISION MAP
- LOT AREA: 10.9 ± ACRES

CONSTRUCTION NOTES:

- TOPSOIL TO BE REMOVED FROM THE SYSTEM AREA AND THE EXISTING GROUND TO BE FURROWED PARALLEL TO THE CONTOURS PRIOR TO PLACING APPROVED SEPTIC FILL.
- SEPTIC FILL TO CONSIST OF CLEAN SAND.
- SEPTIC FILL TO BE "SELECT FILL" WITH THE FOLLOWING SPECIFICATIONS: **MAXIMUM PERCENT GRAVEL (LARGER THAN No.4 SIEVE): 45%**
- GRADATION OF FILL:

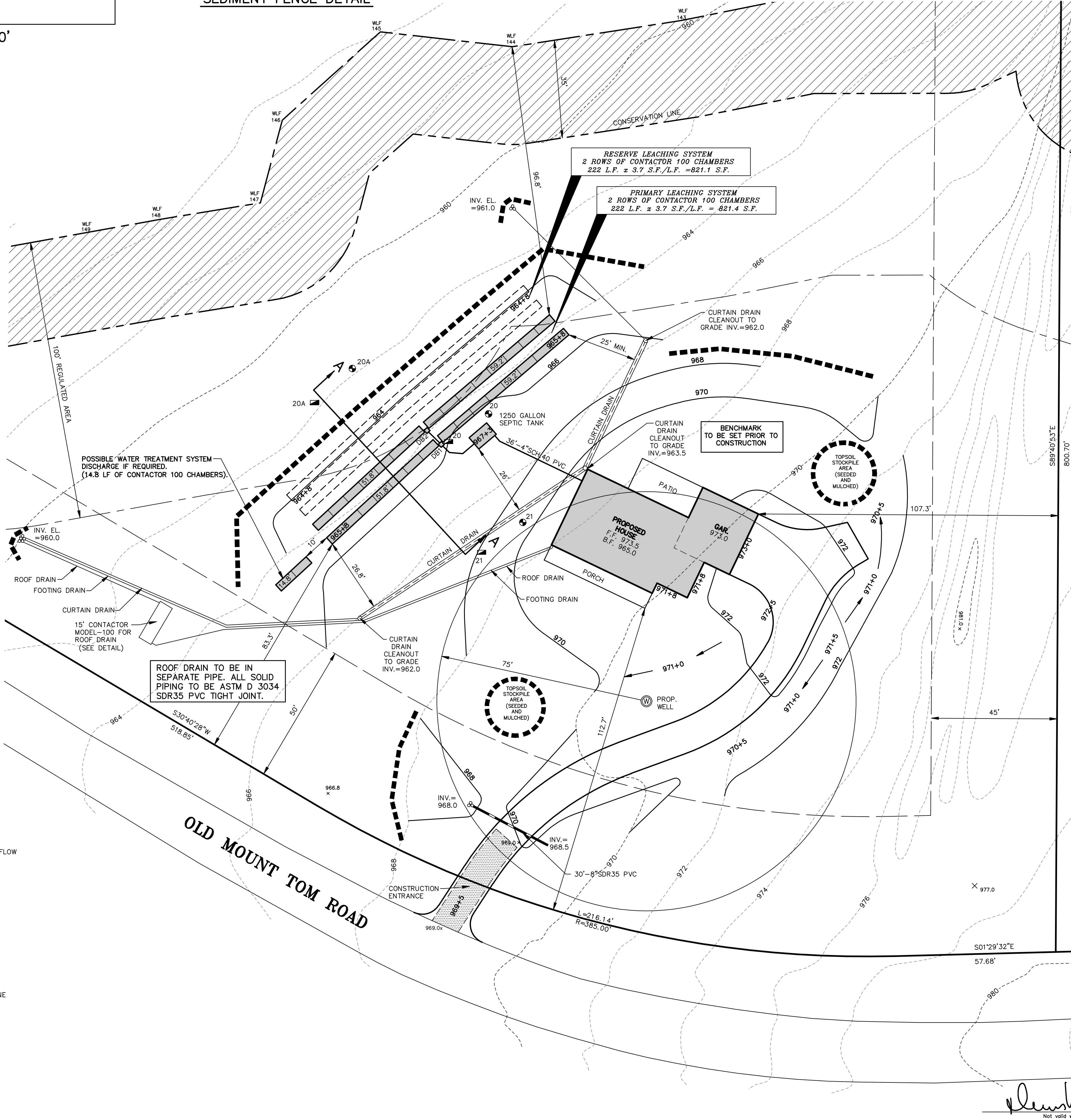
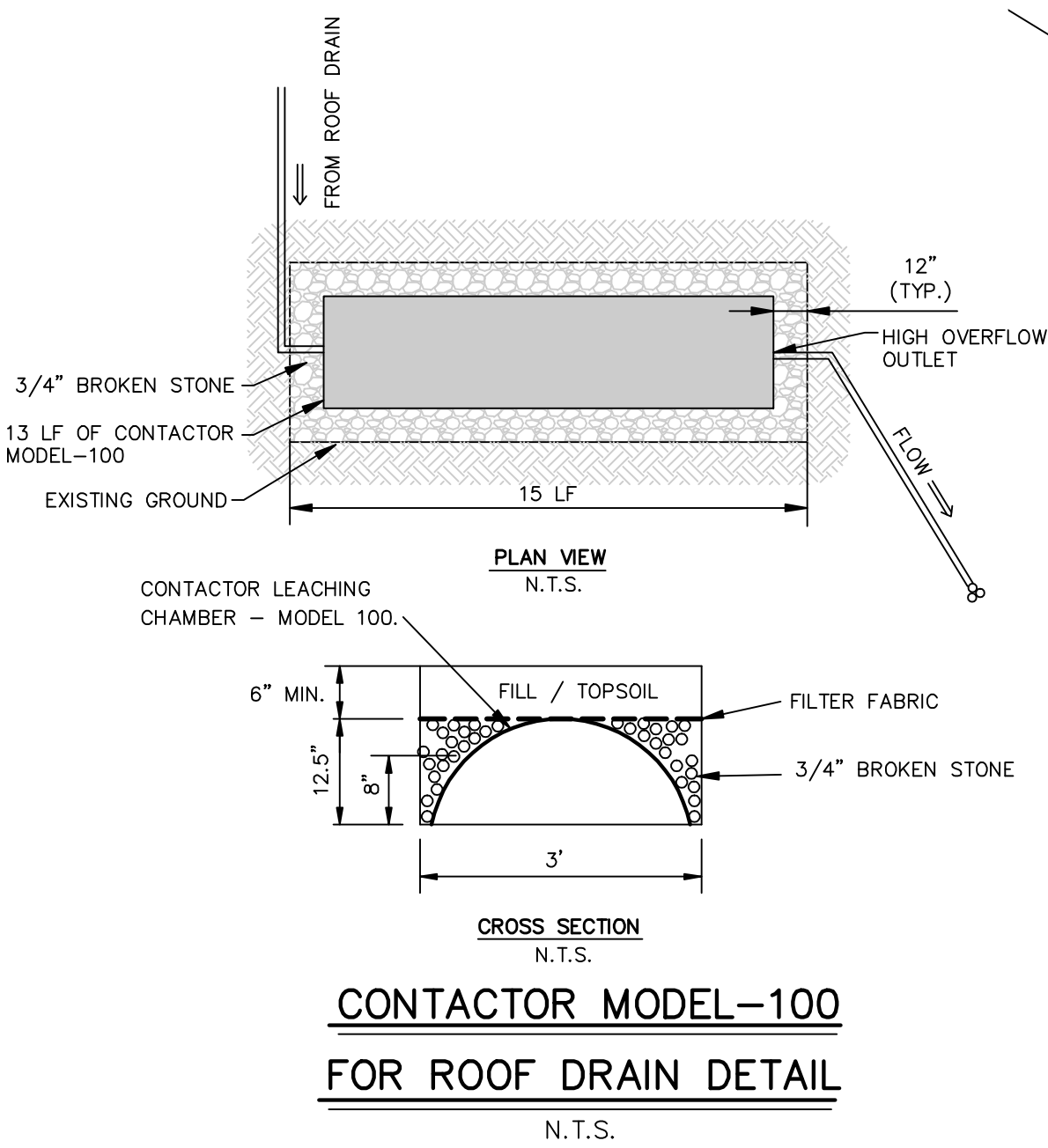
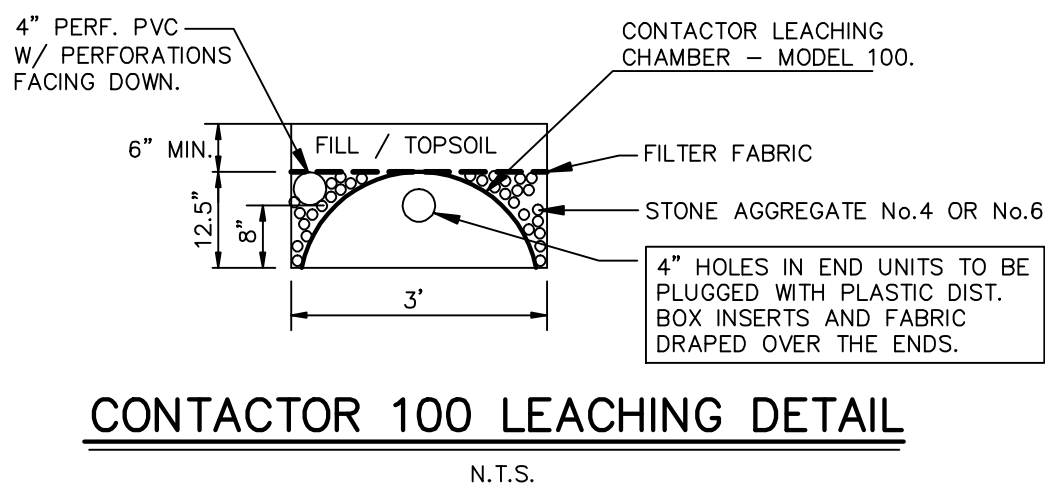
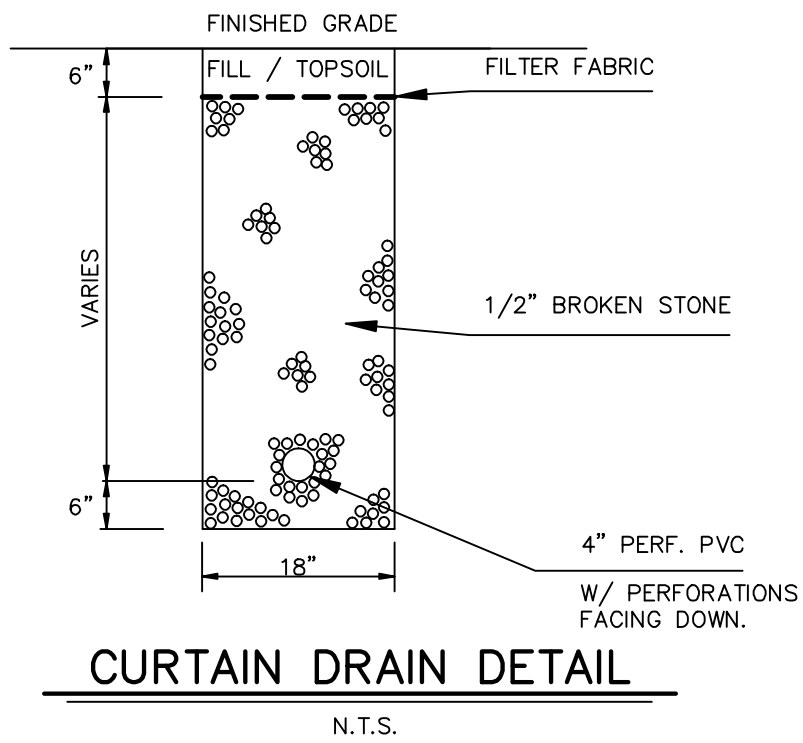
SIEVE NUMBER	PERCENT PASSING
4	100
10	70-100
40	10-50*
100	0-20
200	0-5

*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%.

DESIGN CRITERIA		
NO. OF BEDROOMS		4
PERCOLATION RATE		10.1-20 MIN./IN.
LEACHING AREA REQ'D (S.F.)		675+112.5=787.5
LEACHING AREA PROV. (S.F.)		821
RESERVE AREA PROV. (S.F.)		821

DESIGN FLOW LINES / ELEVATIONS			
	IN	OUT	DIRECTION
HOUSE		967.5	TO TANK
SEPTIC TANK	965.75	965.5 (MIN.)	TO DB 1
DB 1	965.1	694.9	TO TRENCH
		965.1	TO DB 2
DB 2	964.7	964.5	TO TRENCH

MLSS - MINIMUM LEACHING SYSTEM SPREAD	
DEPTH TO RESTRICTION	23"
GRADE	6.1-8%
HYDRAULIC FACTOR	30
FLOW FACTOR	1.75
PERCOLATION FACTOR	1.25
MLSS REQUIRED	65.6'
MLSS PROVIDED	111.0'



Deep Hole Test Results
12/21/06

Deep Hole # 20
0-10" Topsoil
10-23" Orange brown friable sandy loam
23-78" Grey compact sandy loam
Mottling @ 23"
Water @ 60"
No Ledge
Roots @ 23"

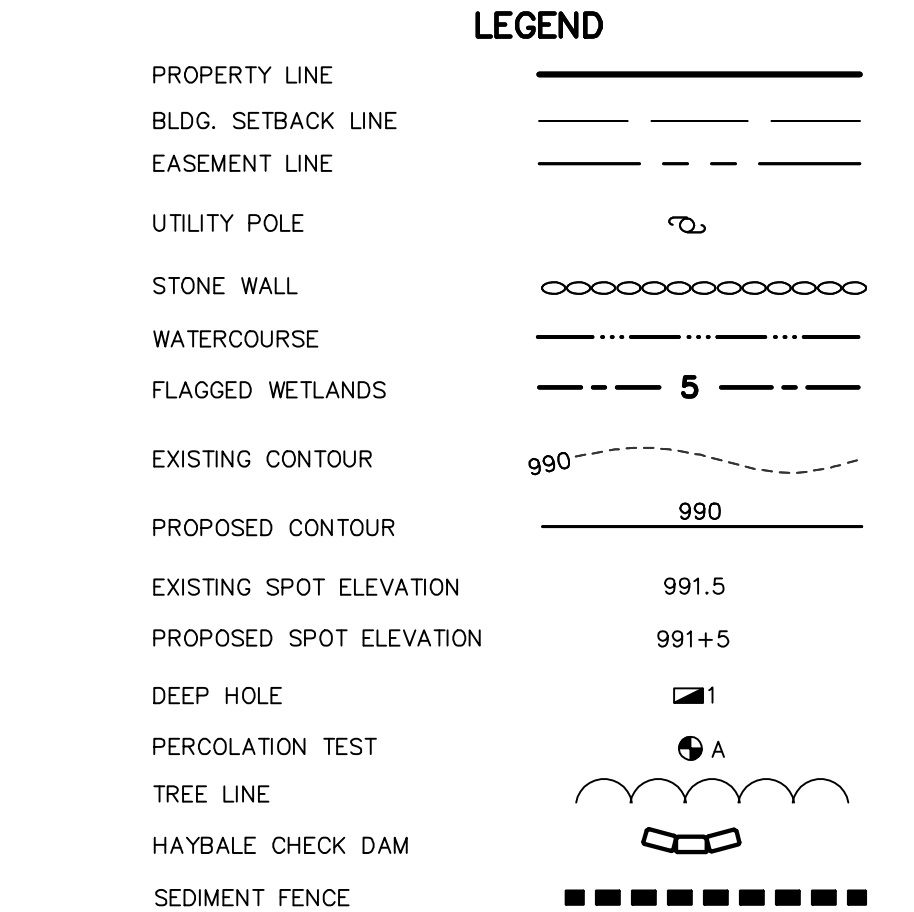
Deep Hole # 21
0-8" Topsoil
8-19" Orange brown friable sandy loam
19-75" Grey compact sandy loam
Mottling @ 19"
No Water
No Ledge
Roots @ 20"

12/27/06
Perc 20 Depth 18"
2:35 9-1/4"
2:45 13-1/2"
2:55 15"
3:05 16-1/8"
3:15 17"
3:25 17-5/8"
3:35 18-1/4"
Percolation rate = 1 inch in 16 minutes

Perc 21 Depth 18"
2:34 9"
2:44 11-5/8"
2:54 13-1/8"
3:04 14-3/8"
3:14 15-1/4"
3:24 16-1/8"
3:34 16-7/8"
Percolation rate = 1 inch in 13 minutes

9/11/20
Deep test pit 20A
0-9" Topsoil
9-23" Orange brown friable sandy loam, some silt
23-60" Grey compact sandy loam
Mottling @ 23"
No water
No ledge

Percolation test 20A 18" deep - Presoak 2hr30m
12:35:54
12:45-
12:55:13.875"
1:05 14.625"
1:15 15.25"
1:25 15.875"
1:35 16.5"
Percolation rate: 16min/inch



NOTES:

- PER TORRINGTON AREA HEALTH DISTRICT REGULATIONS, THE DESIGN ENGINEER SHALL PERFORM PERCOLATION TESTS IN THE IN-PLACE SEPTIC FILL ON SITE DURING CONSTRUCTION.
- PER TORRINGTON AREA HEALTH DISTRICT REGULATIONS, THE DESIGN ENGINEER OR TESTING LABORATORY WILL TAKE A COMPOSITE SAMPLE OF THE IN-PLACE SEPTIC FILL AND HAVE A SIEVE TEST PERFORMED. IT IS RECOMMENDED THAT THE SYSTEM NOT BE INSTALLED UNTIL THE SEPTIC FILL HAS PASSED THE SIEVE TEST.
- PER TORRINGTON AREA HEALTH DISTRICT REGULATIONS, THE DESIGN ENGINEER WILL INSPECT THE SEPTIC SYSTEM PRIOR TO BACKFILLING AND PREPARE A SEPTIC SYSTEM RECORD DRAWING.
- IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE DESIGN ENGINEER 48 HOURS PRIOR TO ANY REQUIRED TESTS OR INSPECTIONS.

SEPTIC SYSTEM DESIGN

PREPARED FOR
WHITEHALL CONSTRUCTION, LLC
LOT 1 "SHEPAUG CROSSING"
OLD MOUNT TOM ROAD
LITCHFIELD, CONNECTICUT

BERKSHIRE ENGINEERING & SURVEYING, LLC

143 BANTAM LAKE ROAD
BANTAM, CONNECTICUT 06750
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(860)567-8006 (fax)

Date: 09/4/21
Scale: 1"=20'
Proj. No.: 17-0007_LOT1(SEP)
Drawn By: MS
Sheet: 1/1
Map No.: 3007