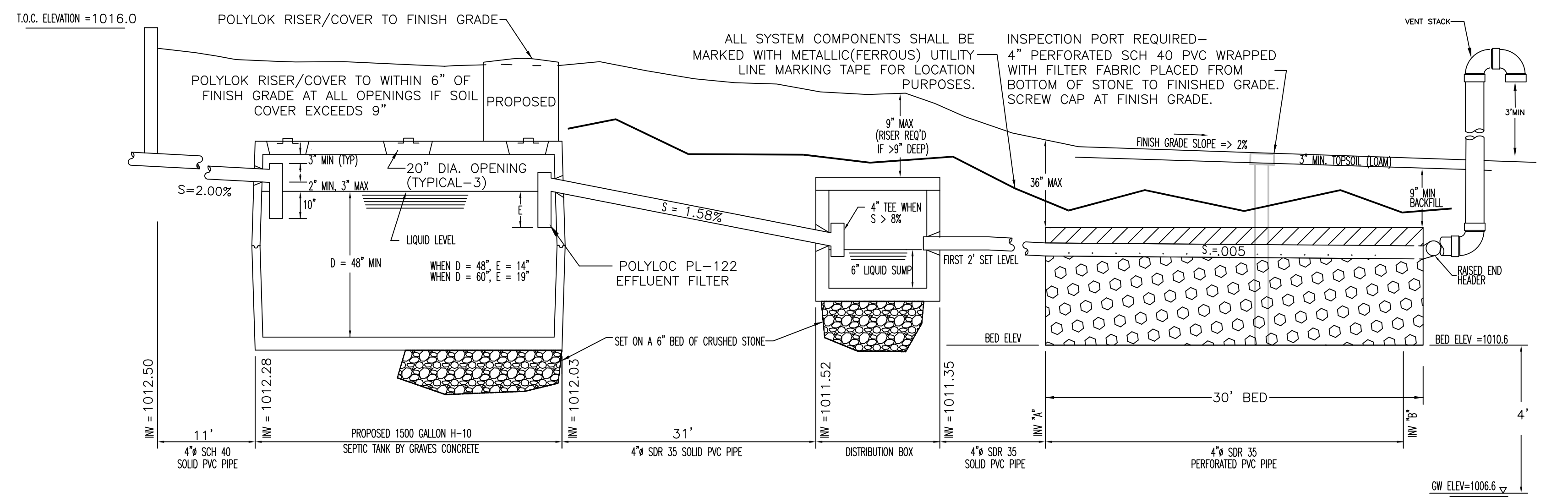
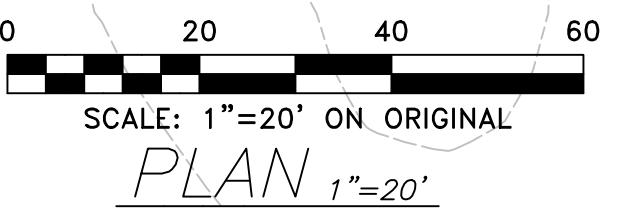
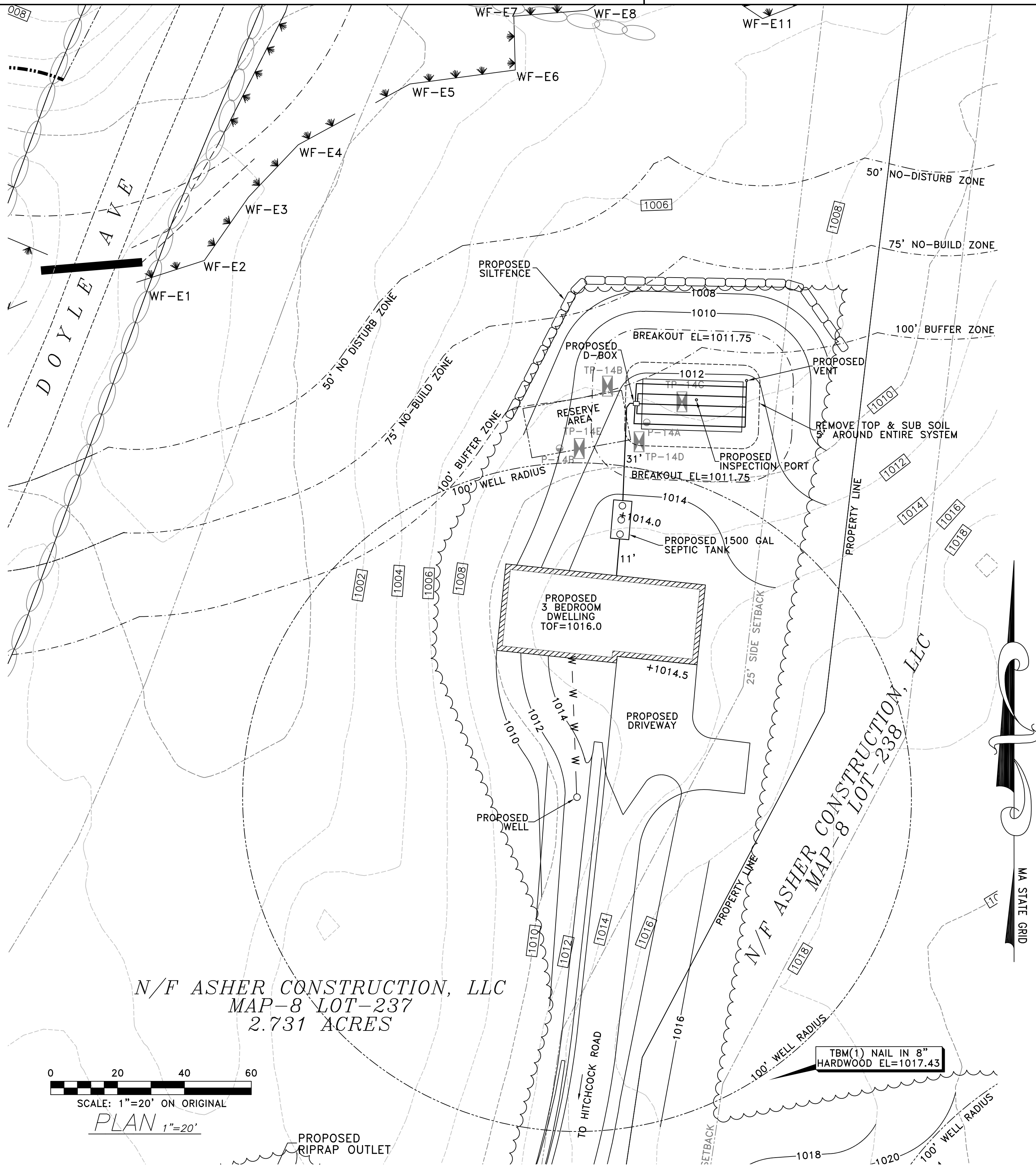
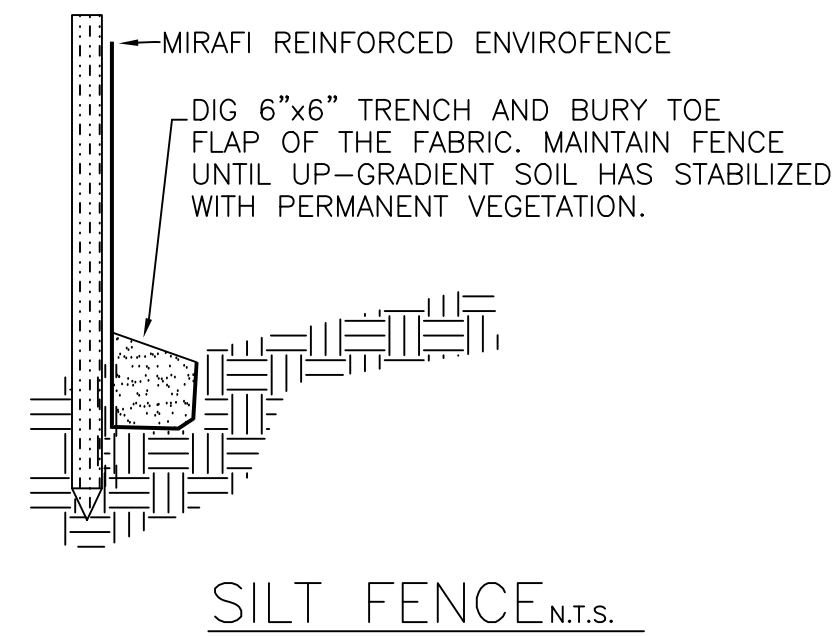
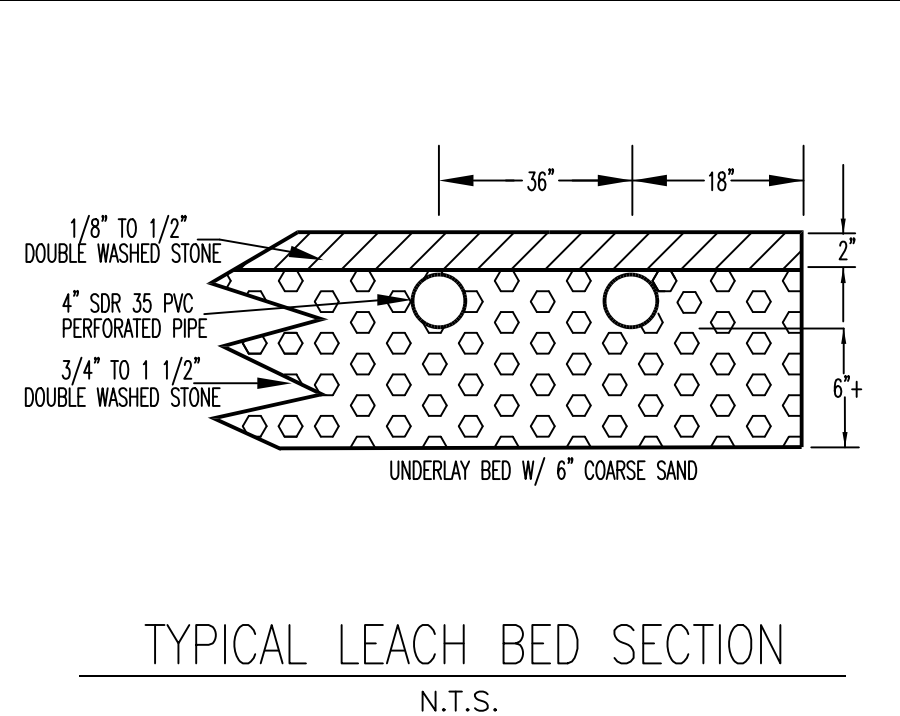


LOCUS N.T.S.



SCHEMATIC PROFILE  
N.T.S.

PROPOSED BED ELEVATIONS				
BED #	PIPE INV "A"	PIPE INV "B"	BED ELEV	EX. GROUND
1	1011.25	1011.1	1010.6	1006.6
				1008.5



TYPICAL LEACH BED SECTION  
N.T.S.

**DESIGN CRITERIA**

- Estimated Hydraulic Loading  
3 bedrooms at 110 gals/day/bedroom = 330 gpd  
Garbage disposal shall not be allowed with this system.
- Septic tank size = 1500 gallons
- Leaching Area Design Criteria  
Percolation Rate = 5 mpi  
Soil Class Type = I (LOAMY SAND)  
Allowable Loading Rate = 74 gpd/sf  
Required Leaching Area = 330 gpd / 74 gpd/sf = 4.46 sf  
Leaching Area Provided = 1 bed x 30 ft bed length x 15 ft bed width = 450 sf
- Breakout  
Breakout Elevation = 1011.75  
Breakout Distance = 15 ft  
Distance Provided = 15 ft

**LEGEND**

	EXISTING CONTOUR
	PROPOSED CONTOUR
	DEEP HOLE TEST PIT
	PERCOLATION TEST
	PROPOSED SPOT ELEVATION

+ 238.6

**GENERAL NOTES**

- Unless otherwise noted, property lines shown are compiled from existing plans and deeds of record. Proposed buildings and septic system should be located by instrument survey prior to construction.
- All construction to conform to 310 CMR 15.000, "The State Environmental Code, Title 5" and the Board of Health requirements for the Town of WINCHENDON.
- The contractor shall install the system exactly as shown on this plan. If changes are necessary, the contractor must contact the Engineer in advance.
- Heavy machinery shall not be permitted to pass over the leaching area and the contractor shall stake and flag the soil absorption/leaching area perimeter upon completion.
- All piping shall be polyvinyl chloride (PVC) pipe per ASTM D1785 for sch.40 and ASTM D3034 for SDR35 where indicated on the profile, unless otherwise noted.
- The septic tank shall be a Graves Concrete H-10 1500 gallon monolithic tank.
- The distribution box (D-box) shall be a 5 outlet reinforced concrete box of H-10 load design (min.) with a watertight cover and conform to all the requirements of 310 CMR 15.232.
- All topsoil, subsoil and impervious material, if any, must be excavated and removed below and 5' beyond the soil absorption system area. Fill material shall consist of a clean granular sand, free from organic matter and deleterious substances. Mixtures and layers of different classes of soil not be used. The sand fill shall not contain any material larger than 2 inches. A sieve analysis, using a #4 sieve, shall be performed on a representative sample of the fill. Up to 45% by weight of the fill sample may be retained on the #4 sieve. Sieve analyses also shall be performed on the fraction of the fill sample passing the #4 sieve, such analyses must demonstrate that the material meets or exceeds each of the following specifications: 100% passing #4 sieve; 10%-100% passing #50 sieve; 0%-20% passing #100 sieve; 0%-5% passing #200 sieve. (11/95 DEP SPEC)
- For proper performance, septic tank should be inspected at least once a year and pumped when the top of the sludge or solids layer is within 12" or less of the bottom of the outlet tee or the bottom of the scum layer is within 2 inches of the bottom of outlet tee (every 2 or 3 years). INSPECT & CLEAN THE TANK OUTLET FILTER EVERY YEAR!
- There are no other wells located within 150 feet of the proposed system.
- See approved stormwater plans for basin feature details to the south.

**SOIL TEST DATA**  
DEEP HOLE & PERC TESTS

PERFORMED BY: TREVOR FLETCHER, S.E. & PAUL GRASEWICZ, P.E.  
WITNESSED BY: JIM ABARE & STEVE CALICHMAN, B.O.H. WINCHENDON  
DATE: JANUARY 24, 2022

DEEP HOLE #	DEEP HOLE #	DEEP HOLE #	DEEP HOLE #
TP-14B	TP-14C	TP-14D	TP-14E
0" FINE SANDY LOAM 10YR 3/3	0" FINE SANDY LOAM 10YR 3/3	0" FINE SANDY LOAM 10YR 3/3	0" FINE SANDY LOAM 10YR 3/3
7" FINE SANDY LOAM 2.5Y 4/4	18" SAND 2.5Y 6/3	11" FINE SANDY LOAM 2.5Y 4/4	7" FINE SANDY LOAM 2.5Y 4/4
12" FINE SANDY LOAM 2.5Y 7/1		18" SAND 2.5Y 6/3	11" SAND 2.5Y 6/3
14" SAND 2.5Y 6/3			
80"	72"	86"	88"
ESWT = 23" STANDING WATER = 40"	ESWT = 25" STANDING WATER = 33"	ESWT = 48" STANDING WATER = 70"	ESWT = 47" STANDING WATER = N/A
GRD EL. 1007.9 ESHW EL. 1006.0 WATER EL. 1004.6	GRD EL. 1007.8 ESHW EL. 1005.7 WATER EL. 1005.0	GRD EL. 1009.3 ESHW EL. 1005.3 WATER EL. 1004.5	GRD EL. 1009.4 ESHW EL. 1005.5 WATER EL. N/A
PERC TEST NUMBER	DEPTH	PERC RATE	NOTES
PERC-14-1	36"	<2 MPI	
PERC-14-2	31"	5 MPI	

NO.	DESCRIPTION	DATE	BY		DESIGNED BY TWF	<b>PROPOSED SINGLE FAMILY RESIDENCE SEPTIC SYSTEM PLAN</b> MAP-8 LOT-237 369 HITCHCOCK ROAD; WINCHENDON, MA 01475 PREPARED FOR: ASHER CONSTRUCTION, LLC 77 NASHUA ROAD SHARON, NH 03458
					DRAWN BY TWF	
					CHECKED BY PFG	
					DATE 2/13/24	
					SCALE 1"=20'	
				JOB NUMBER 21183	<b>GRAZ Engineering, LLC</b> 323 WEST LAKE RD.; FITZ WILLIAM, NH 03447; (603) 585-6959	

SHEET 1 OF 1