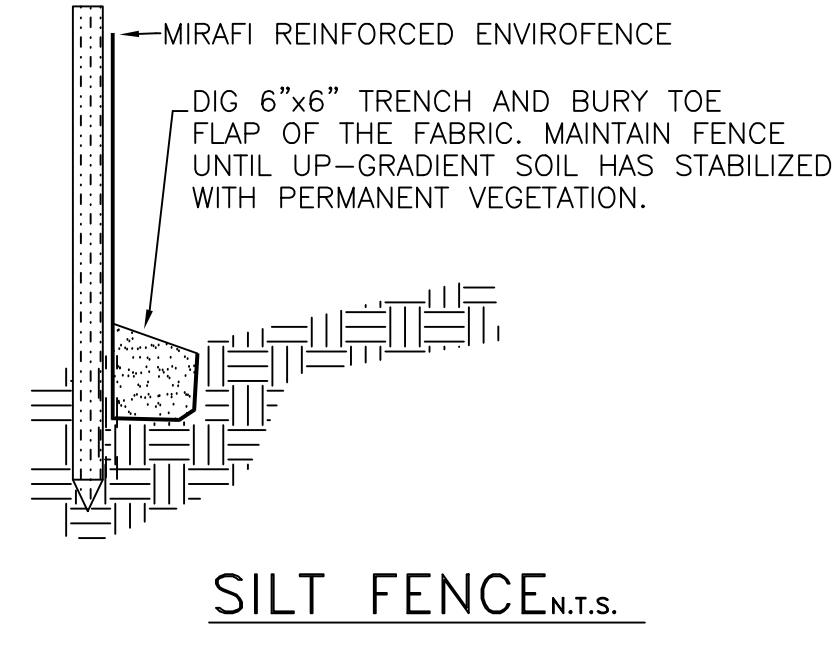
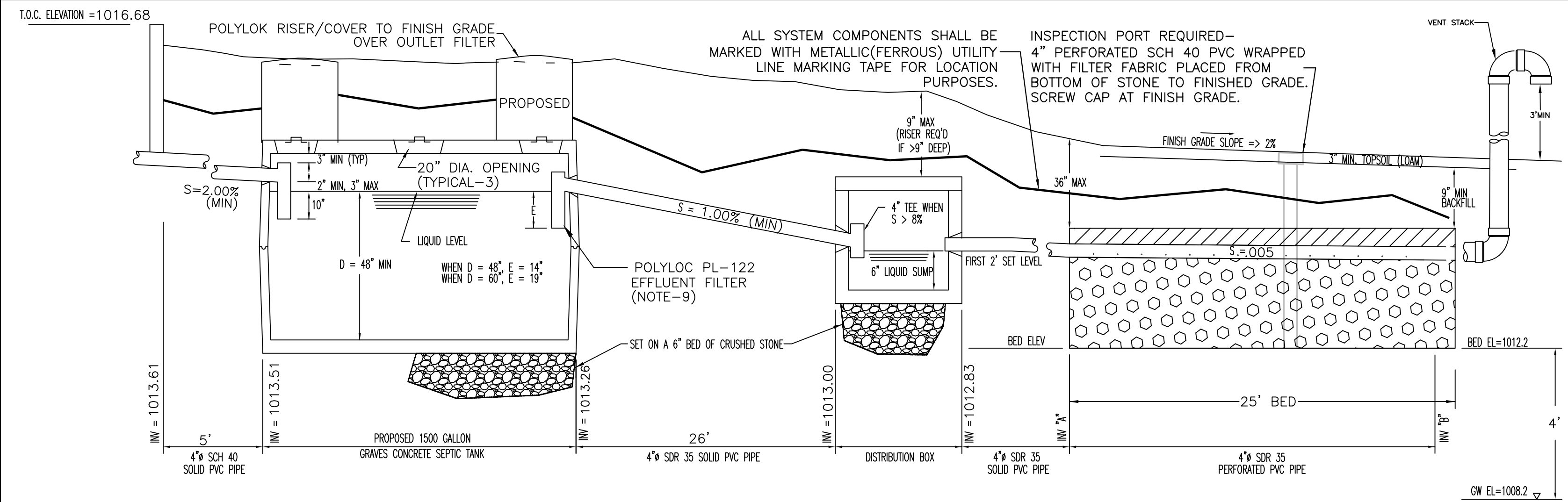




LOCUS NTS



SILT FENCE N.T.S.

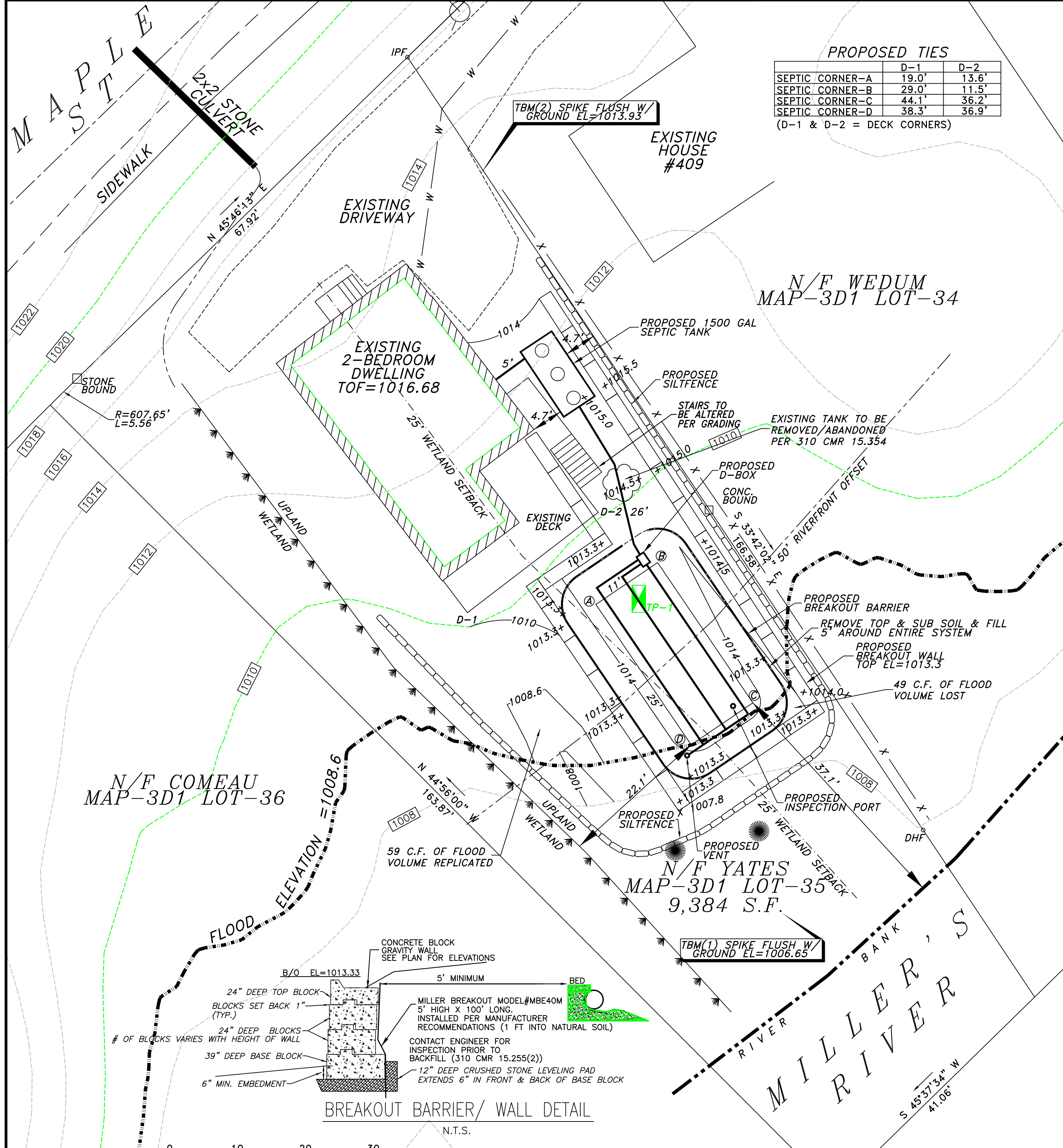


SCHEMATIC PROFILE N.T.S.

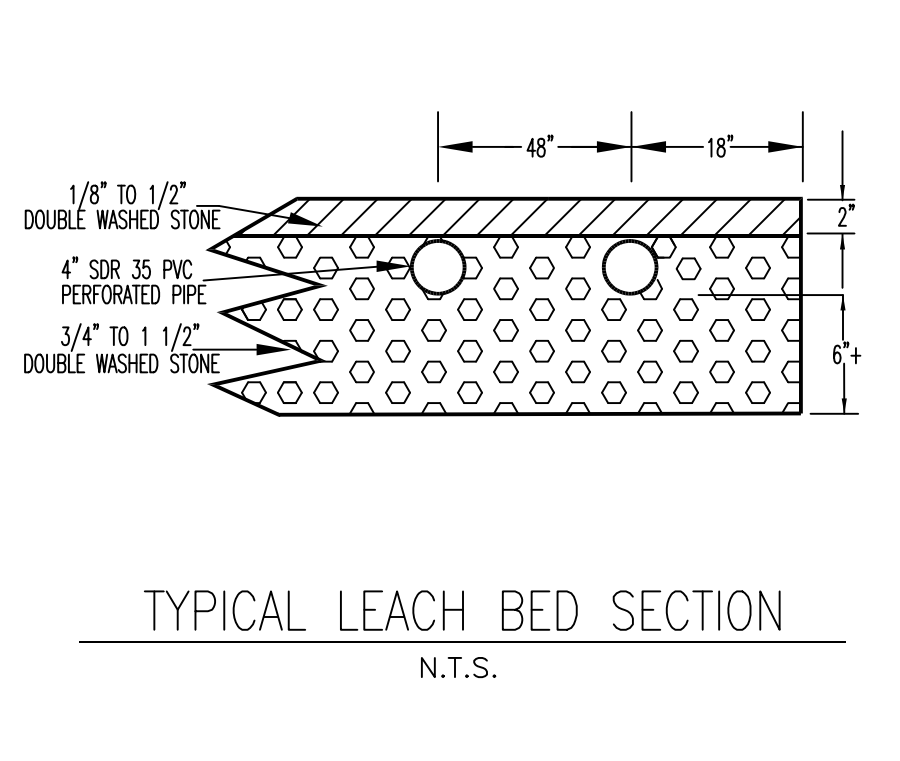
PROPOSED BED ELEVATIONS					
BED #	PIPE IN "x"	PIPE IN "y"	BED ELEV	OND. H2O EL.	EX. GROUND.
1	1012.83	1012.7	1012.2	1008.2	1009.5

PROPOSED TIES			
	D-1	D-2	
SEPTIC CORNER-A	19.0'	13.6'	
SEPTIC CORNER-B	29.0'	11.5'	
SEPTIC CORNER-C	44.1'	36.2'	
SEPTIC CORNER-D	38.3'	36.9'	

(D-1 & D-2 = DECK CORNERS)



PLAN



### DESIGN CRITERIA

- Estimated Hydraulic Loading  
2 bedrooms at 110 gals/day/bedroom = 220 gpd  
Garbage disposal shall not be allowed with this system.
- Septic tank size = 1500 gallons
- Leaching Area Design Criteria  
Percolation Rate = N/A mpi  
Soil Class Type = II (SANDY LOAM)  
Allowable Loading Rate = .60 gpd/sf  
Required Leaching Area = 220 gpd / .60 gpd/sf = 367 sf  
Leaching Area Provided = 1.1 bed x 25 ft bed length x 11 ft bed width = 275 sf (25% REDUCTION WAIVER)
- Breakout  
Breakout Elevation = 1013.33  
Breakout Distance = 15 ft  
Distance Provided = 15 ft

15' 3:1 MAX SLOPE

### LEGEND

- 242 EXISTING CONTOUR
- 242 PROPOSED CONTOUR
- TP-1A DEEP HOLE TEST PIT
- P-1A PERCOLATION TEST
- + 238.6 PROPOSED SPOT ELEVATION
- X 238.6 EXISTING SPOT ELEVATION
- IPF O IRON PIN FOUND
- BND O STONE BOUND FOUND
- EXISTING STONE WALL
- W W WATER SERVICE

- ### GENERAL NOTES
- Unless otherwise noted, property lines shown are compiled from existing plans and deeds of record. Proposed buildings and septic system shall 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 wells located within 150 feet of the proposed system.
  - An NOI is to be filed with the Conservation Commission.

- ### WAIVER REQUESTS
- 310 CMR 15.405 (1)(a) - REDUCTION OF SYSTEM SETBACKS TO PROPERTY LINE - SEPTIC TANK: 10' TO 4'
  - 310 CMR 15.405 (1)(b) - REDUCTION OF SYSTEM SETBACKS TO CELLAR WALL - SEPTIC TANK: 10' TO 4'
  - 310 CMR 15.405 (1)(c) - 25% REDUCTION IN REQUIRED SAS AREA
  - 310 CMR 15.405 (1)(e) - REDUCTION OF SYSTEM SETBACKS TO WETLANDS - 50' TO 22'
  - 310 CMR 15.405 (1)(f) - REDUCTION OF SYSTEM SETBACKS TO SURFACE WATERS - 50' TO 37'

### SOIL TEST DATA

#### DEEP HOLE & PERC TESTS

PERFORMED BY: PAUL F. GRASEWICZ, P.E.  
WITNESSED BY: JIM ABARE & STEVE CALICHMAN; WINCHENDON, B.O.H.  
DATE: OCTOBER 18, 2021

DEEP HOLE # TP-1  
FILL 0"  
FILL  
SANDY LOAM  
25% GRAVEL  
7.5YR 5/8  
73"  
C  
109"  
ESWT = 16" 10YR 5/8  
STANDING WATER = N/A  
GRD EL = 1009.5  
ESHWT EL = 1008.2

PERC TEST NUMBER	DEPTH	PERC RATE	NOTES
N/A			SIEVE ANALYSIS

NO.	DESCRIPTION	DATE	BY
1	REVISED FOR FLOOD STORAGE MITIGATION	1/12/22	TNR

DESIGNED BY TWF  
DRAWN BY TWF  
CHECKED BY PFG  
DATE 11-23-21  
SCALE 1"=10'  
JOB NUMBER 21172

PROPOSED SINGLE-FAMILY RESIDENCE SEPTIC SYSTEM DESIGN & NOI PLAN  
MAP-3D1 LOT-35  
407 MAPLE STREET; WINCHENDON, MA  
PREPARED FOR:  
ROBIN YATES  
407 MAPLE STREET; WINCHENDON, MA 01475

**GRAZ Engineering, LLC**  
323 WEST LAKE RD.; FITZWILLIAM, NH 03447; (603) 585-6959

SHEET 1 OF 1