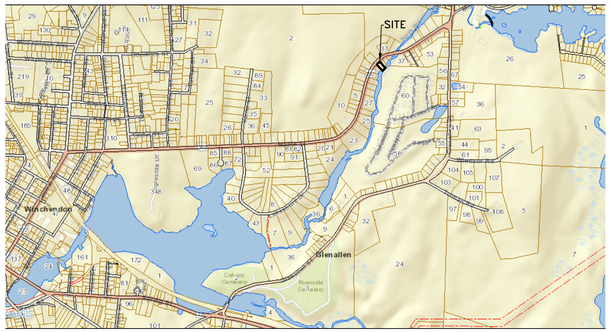
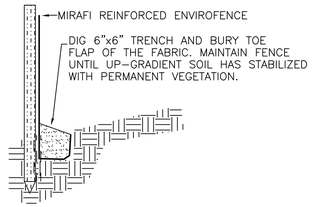
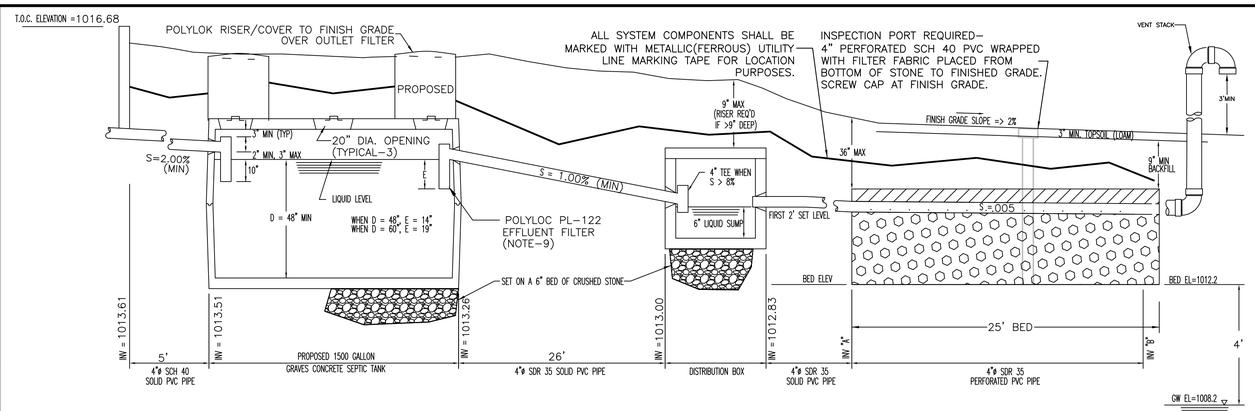


LOCUS NTS



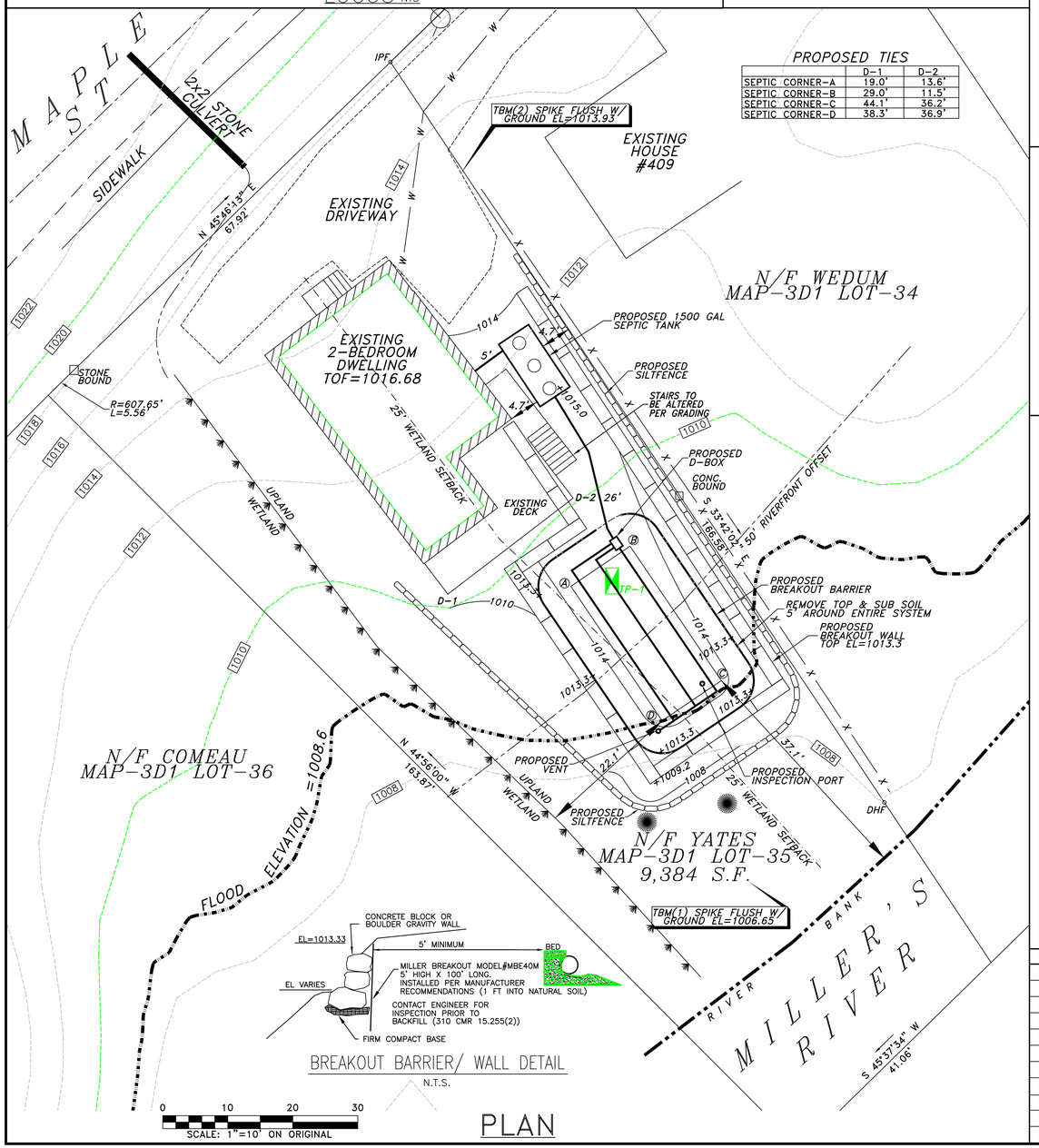
SILT FENCE N.T.S.



SCHEMATIC PROFILE

N.T.S.

PROPOSED BED ELEVATIONS					
BED #	PIPE INV "A"	PIPE INV "B"	BED ELEV	GND. H20 EL.	EX. GROUND.
1	1012.83	1012.7	1012.2	1008.2	1009.5



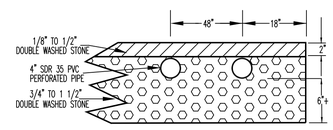
PROPOSED TIES

	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'

BREAKOUT BARRIER/ WALL DETAIL

N.T.S.

PLAN

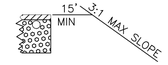


TYPICAL LEACH BED SECTION

N.T.S.

DESIGN CRITERIA

1. Estimated Hydraulic Loading
   2 bedrooms at 110 gals/day/bedroom = 220 gpd
   Garbage disposal shall not be allowed with this system.
2. Septic tank size = 1500 gallons
3. Leaching Area Design Criteria
   Percolation Rate = N/A mpi
   Soil Class Type = II (SANDY LOAM)
   Allowable Loading Rate = .60 gpd/sf (25% REDUCTION WAIVER)
   Required Leaching Area = 220 gpd / 0.6 gpd/sf = 367 sf 275 sf
   Leaching Area Provided = 1 bed X 25 ft bed length X 11 ft bed width = 275 sf
4. Breakout
   Breakout Elevation = 1013.33
   Breakout Distance = 15 ft
   Distance Provided = 15 ft.



LEGEND

242	EXISTING CONTOUR
242	PROPOSED CONTOUR
TP–1A	DEEP HOLE TEST PIT
P–1A	PERCOLATION TEST
+ 238.6	SPOT ELEVATION
IPF	IRON PIN FOUND
BND	STONE BOUND FOUND
	EXISTING STONE WALL

GENERAL NOTES

1. 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.
2. 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.
3. The contractor shall install the system exactly as shown on this plan. If changes are necessary, the contractor must contact the Engineer in advance.
4. 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.
5. 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.
6. The septic tank shall be a Graves Concrete H–10 1500 gallon monolithic tank.
7. 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.
8. 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)
9. 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!
10. There are no wells located within 150 feet of the proposed system.
11. An NOI is to be filed with the Conservation Commission.

WAIVER REQUESTS

1. 310 CMR 15.405 (1)(a) – REDUCTION OF SYSTEM SETBACKS TO PROPERTY LINE – SEPTIC TANK: 10' TO 4'
2. 310 CMR 15.405 (1)(b) – REDUCTION OF SYSTEM SETBACKS TO CELLAR WALL – SEPTIC TANK: 10' TO 4'
3. 310 CMR 15.405 (1)(c) – 25% REDUCTION IN REQUIRED SAS AREA
4. 310 CMR 15.405 (1)(e) – REDUCTION OF SYSTEM SETBACKS TO WETLANDS – 50' TO 22'
5. 310 CMR 15.405 (1)(f) – REDUCTION OF SYSTEM SETBACKS TO SURFACE WATERS – 50' TO 37'

SOIL TEST DATA

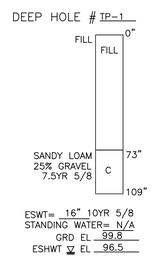
DEEP HOLE & PERC TESTS

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



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

NO.	DESCRIPTION	DATE	BY

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