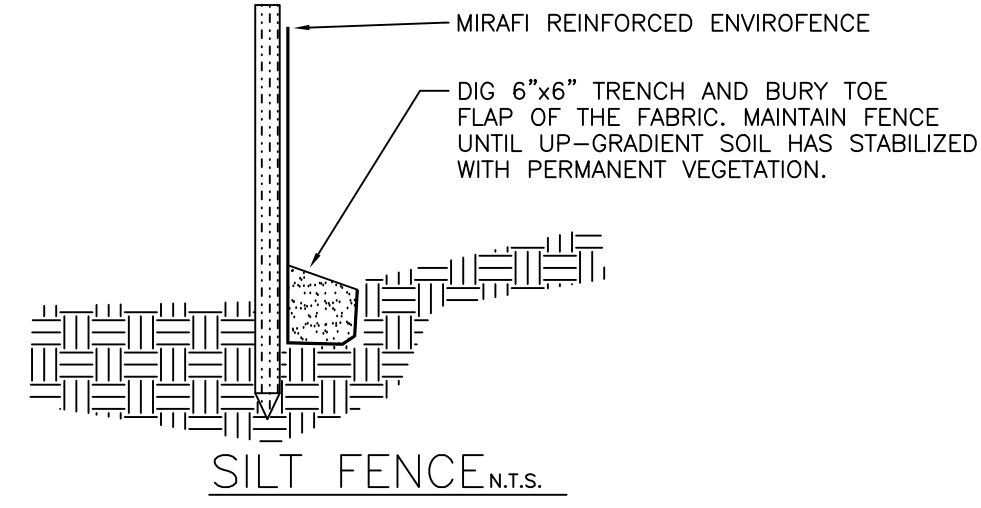
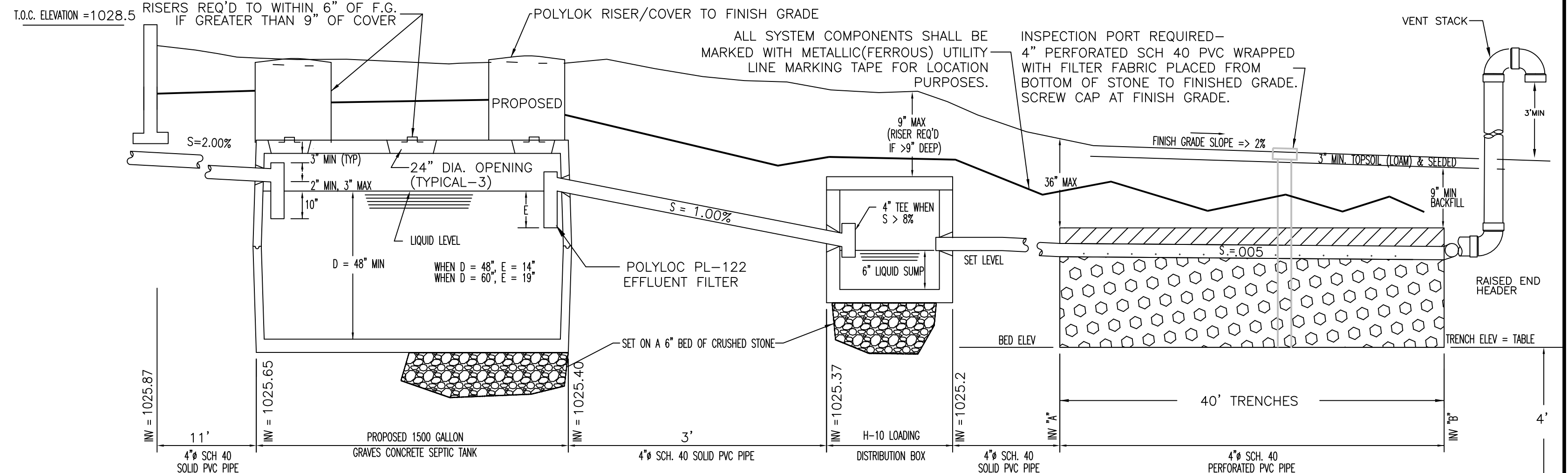


LOCUS NTS



PROPOSED SEPTIC TIES

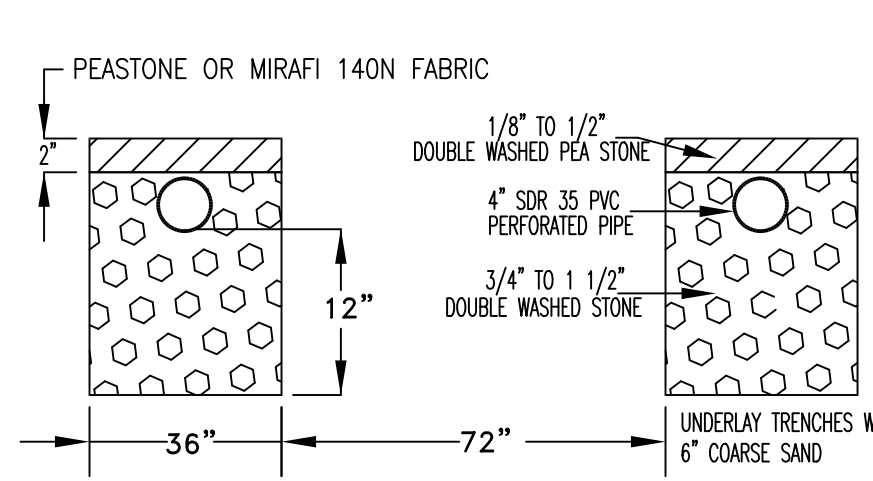
CL-TRENCH-A	TBM(1)	TBM(2)
	68.8'	81.5'
CL-TRENCH-B	92.8'	48.5'



SCHEMATIC PROFILE

N.T.S.

TRENCH #	PIPE INV "A"	PIPE INV "B"	TRENCH ELEV	BREAKOUT	EX. GND. EL.	GND. H2O EL.
1	1025.1	1024.9	1023.9	1025.6	1022.9	1019.9
2	1024.7	1024.5	1023.5	1025.2	1022.5	1019.5
3	1024.3	1024.1	1023.1	1024.8	1022.1	1019.1



TYPICAL LEACH TRENCH 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 = 13 mpi  
Soil Class Type = II (SANDY LOAM)  
Allowable Loading Rate = 0.56 gpd/sf  
Required Leaching Area = 330 gpd / 0.56 gpd/sf = 590 sf (Title V)  
Leaching Area Provided = 3 trenches X 40 ft trench length X 5 sf/lf = 600 sf
- Breakout (BO)  
Breakout Elevation = VARIES (SEE TABLE)  
Breakout Distance = 15 ft  
Distance Provided = 15 ft

LEGEND

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

- 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 other wells located within 150 feet of the proposed system.

SOIL TEST DATA

DEEP HOLE & PERC TESTS

PERFORMED BY: TREVOR FLETCHER, S.E. DEEP HOLE # TP-13-3 DEEP HOLE # TP-13-4

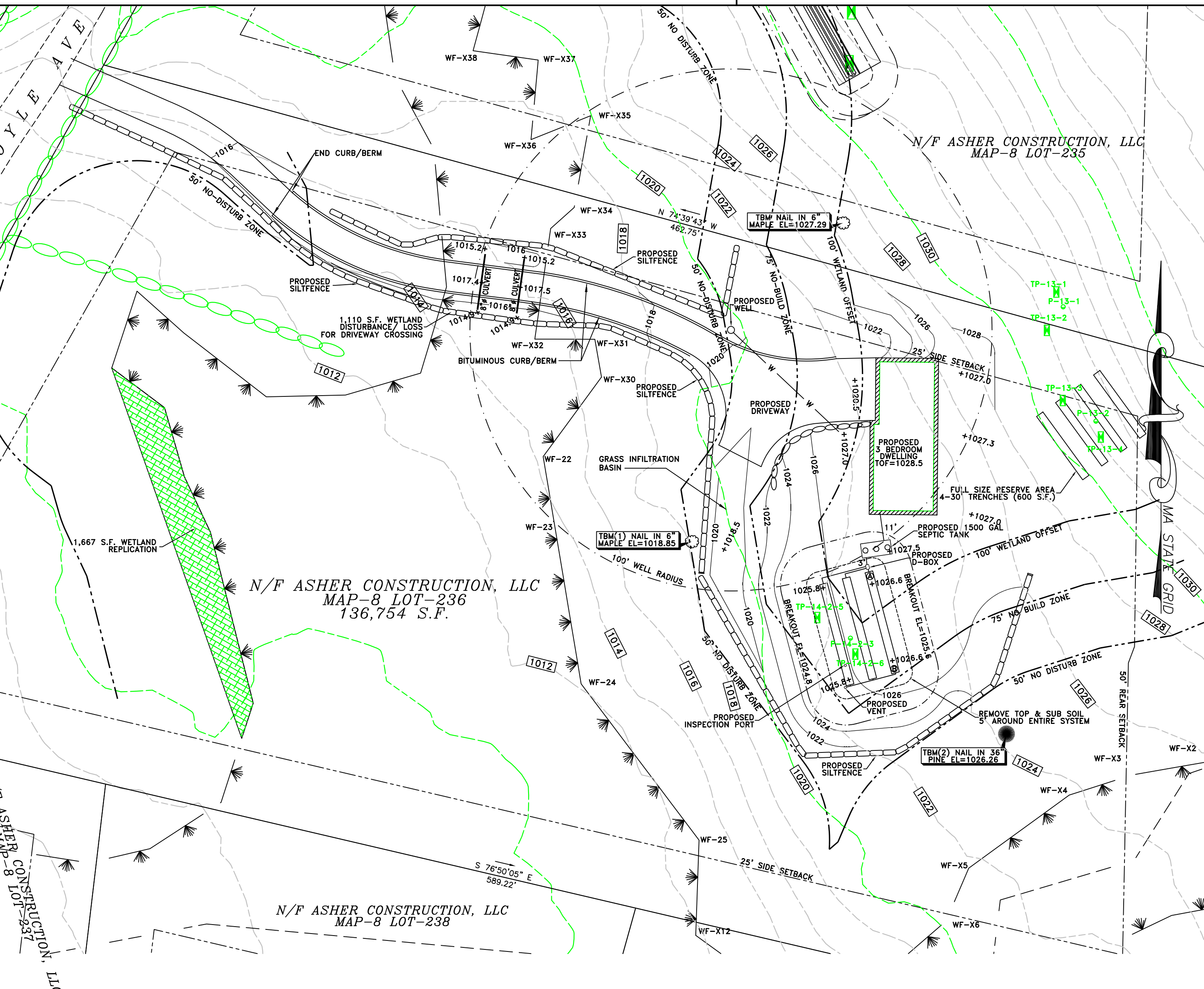
WITNESSED BY: JIM ABARE & STEVE CALICHMAN DEEP HOLE # TP-13-1 DEEP HOLE # TP-13-2

DATE: B.O.H. WINCHENDON MARCH 7, 2022

DEEP HOLE #	DEPTH	SOIL TYPE	SWELLING	STANDING WATER
TP-13-1	0"	FSL		
	10YR 3/2	A		
	10"	FSL		
	7.5YR 4/4	B		
TP-13-2	0"	FSL		
	10YR 3/2	A		
	10"	FSL		
	7.5YR 4/4	B		
TP-13-3	0"	FSL		
	10YR 3/2	A		
	10"	FSL		
	7.5YR 4/4	B		
TP-13-4	0"	FSL		
	10YR 3/2	A		
	10"	FSL		
	7.5YR 4/4	B		

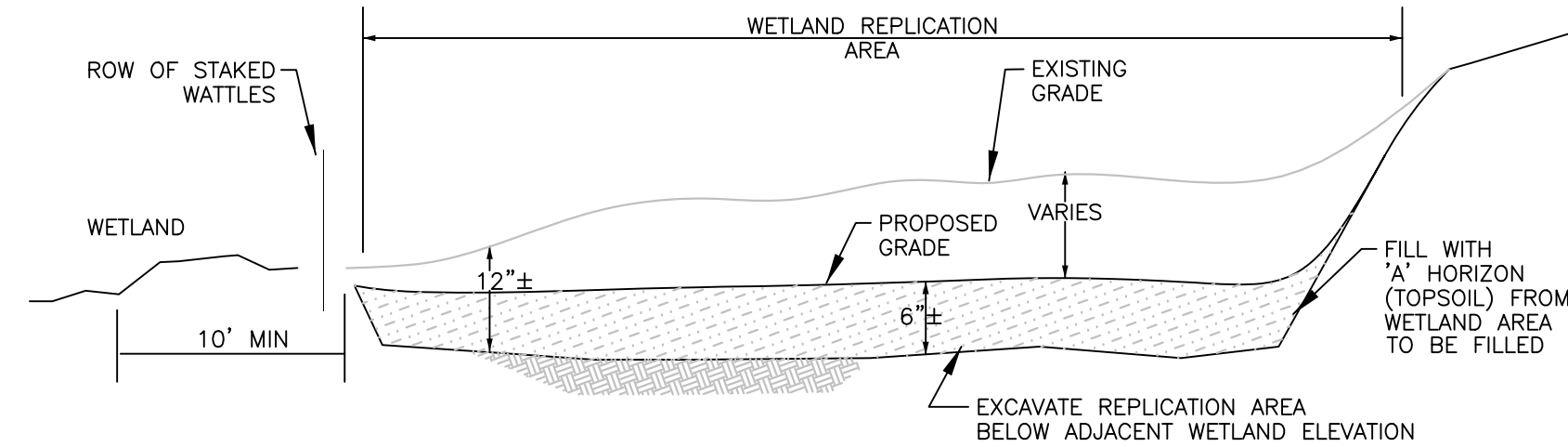
\*TESTING ON LOT INITIALLY CONDUCTED AS 'LOT-13'

PERC TEST NUMBER	DEPTH	PERC RATE	NOTES
PERC-13-1	42"	13 MPI	
PERC-13-2	40"	12 MPI	
PERC-14-2-3	36"	11 MPI	



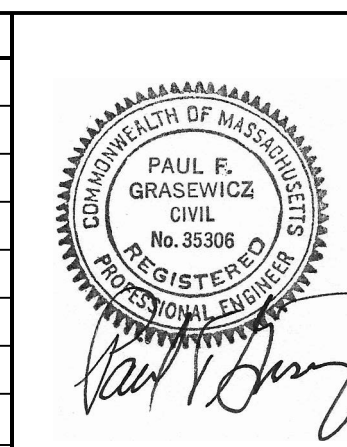
WETLAND REPLICATION NOTES

- INSTALL STRAW WATTLES IMMEDIATELY BEYOND THE DISTURBED AREA AS SHOWN ON THE PLAN.
- LOWER THE GRADE IN THE REPLICATION AREA 12"± BELOW ADJACENT WETLAND ELEVATION. CONTACT ENGINEER/WETLAND SCIENTIST PRIOR TO CUTTING ANY TREES AND AFTER THE DESIRED CUT DEPTH HAS BEEN ACHIEVED IN THE DESIGNATED WETLAND REPLACEMENT AREA (FOR INSPECTION). MATURE TREES SHALL BE PRESERVED WHERE POSSIBLE. THE AREA SHALL BE ADJACENT TO AND HYDRAULICALLY CONNECTED TO, BUT SHALL NOT ALTER THE EXISTING WETLAND.
- 6"± OF NEW ORGANIC RICH TOPSOIL SHALL BE PLACED IN THE PREPARED AREA. TOPSOIL SHOULD BE OBTAINED PREFERABLY FROM THE PROPOSED CROSSING. IF ADDITIONAL SOIL IS NEEDED, TOPSOIL FROM AN AUTHORIZED LOCAL WETLAND DREDGING MAY BE USED. FOR ADDITIONAL DETAILS, SEE MASSDEP REPLICATION GUIDELINES (REV. 2002) SECTION 2.3.2.
- PLANTS IN THE DISTURBED WETLAND AREA SHALL BE RELOCATED TO THE WETLAND REPLICATION AREA. FOR DETAILS CONCERNING THE RELOCATION OF VEGETATION, SEE MASSDEP REPLICATION GUIDELINES (REV. MARCH 2002) SECTION 2.3.3. IF THE RELOCATED VEGETATION DOES NOT PROVIDE 75% OF SURFACE COVERAGE, CONTACT THE ENGINEER FOR INSTRUCTIONS ON ADDITIONAL PLANTINGS.
- KEEP AREA WET/DAMP FOR APPROXIMATELY 1 MONTH IMMEDIATELY AFTER PLANTING. AFTER FIRST MONTH, MONITOR AREA FREQUENTLY AND ADD WATER AS NECESSARY.
- INSPECT AT DIFFERENT PERIODS OF CONSTRUCTION AND POST CONSTRUCTION PER MASSDEP REPLICATION GUIDELINES (REV. 2002) SECTION 4.0 AND EXAMPLE MONITORING DATA SHEET INCLUDED AS APPENDIX 4 IN SAID REPLICATION GUIDELINES. ANY CORRECTIVE ACTIONS NECESSARY SHALL BE OUTLINED IN THE ANNUAL REPORTS.



WETLAND REPLICATION DETAIL NTS

NO.	DESCRIPTION	DATE	BY
1	MOVE DRIVE TO REDUCE CROSSING	8/5/22	PFG
	MOVE HOUSE, ADD STORMWATER		



DESIGNED BY TWF  
DRAWN BY TWF  
CHECKED BY PFG  
DATE 6/27/22  
SCALE 1"=30'  
JOB NUMBER 21183

PROPOSED SINGLE FAMILY RESIDENCE SEPTIC DESIGN & NOI PLAN  
MAP-8 LOT-236  
DOYLE AVE; WINCHENDON, MA  
PREPARED FOR:  
ASHER CONSTRUCTION, LLC  
77 NASHUA ROAD  
SHARON, NH 03458  
**GRAZ Engineering, LLC**  
323 WEST LAKE RD.; FITZWILLIAM, NH 03447; (603) 585-6959  
SHEET 1 OF 1