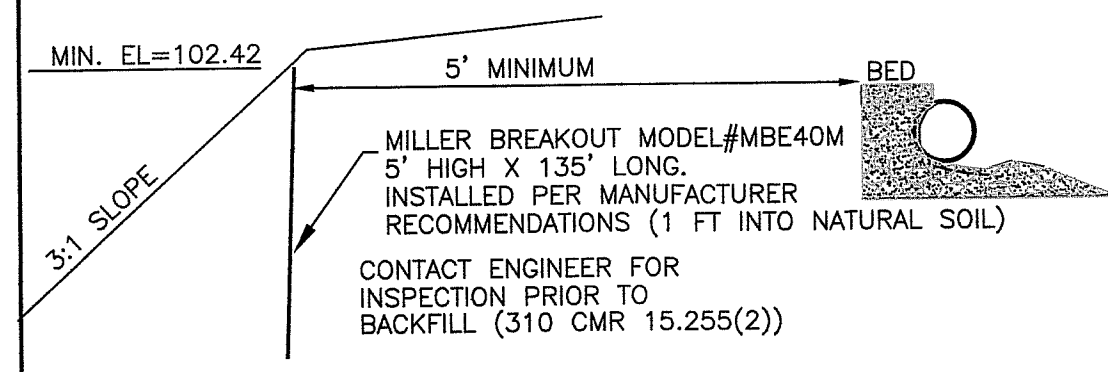
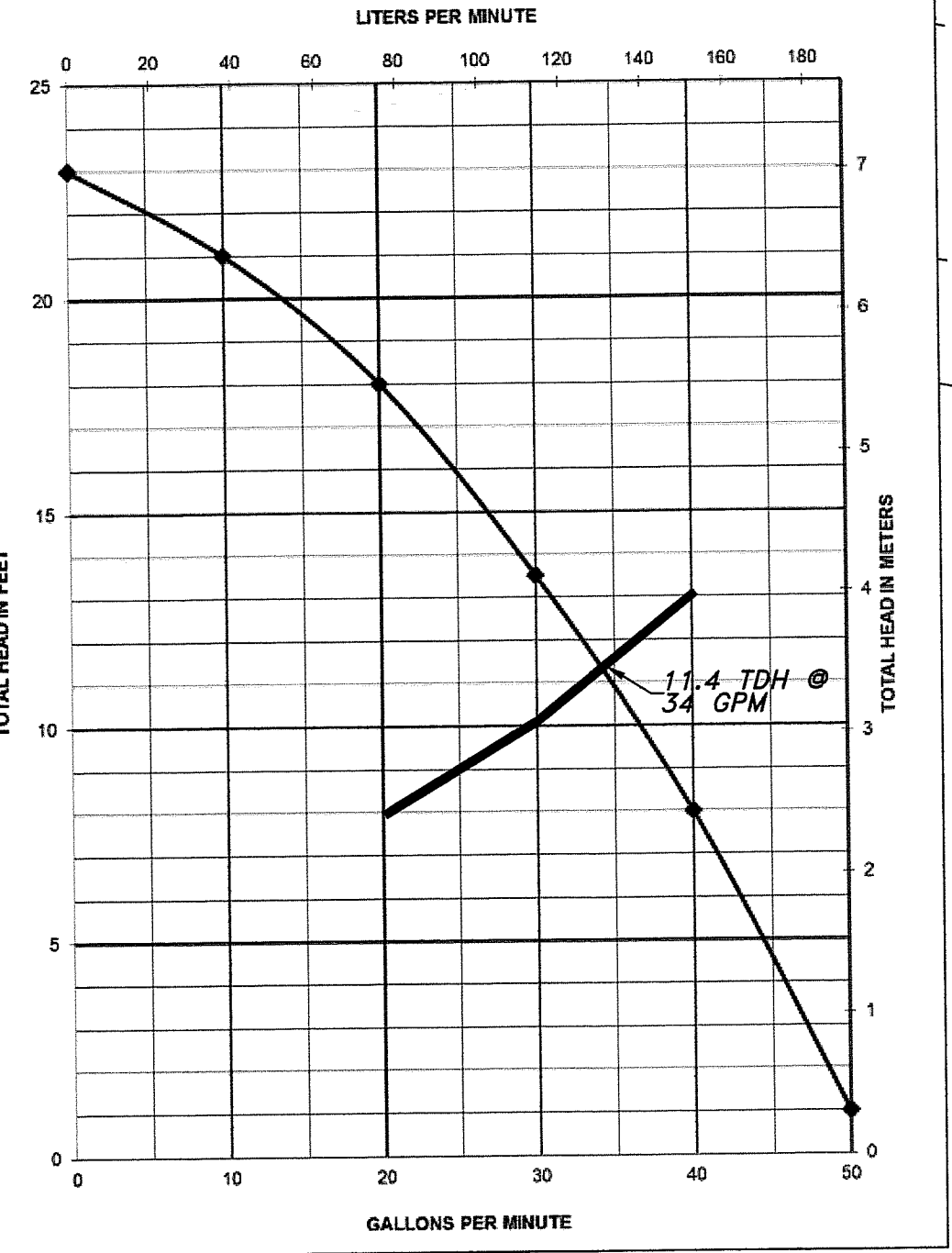


LOCUS N.T.S.

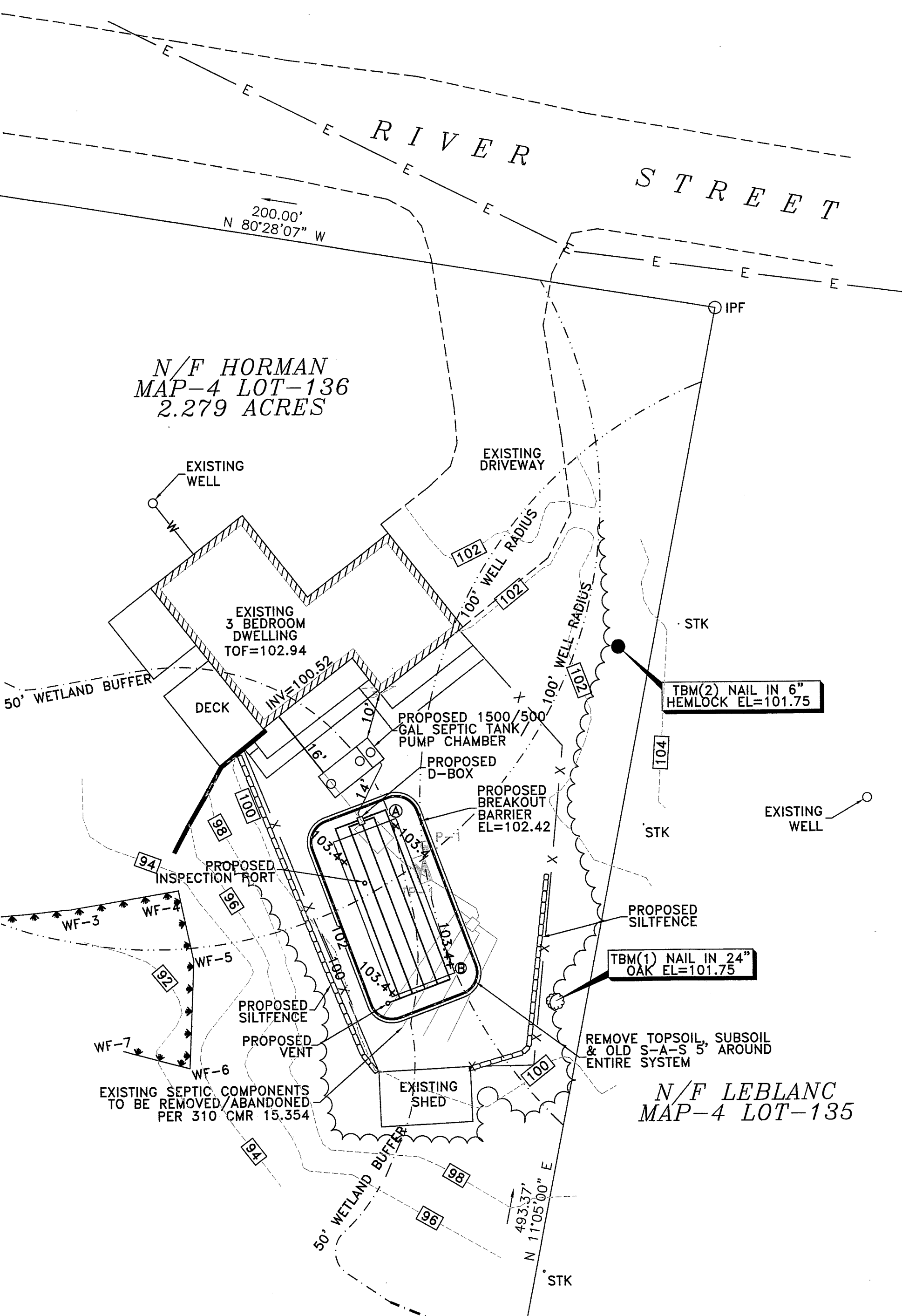


BREAKOUT BARRIER N.T.S.

WAIVERS REQUESTED:
 310 CMR 15.405(1)(d) - 100' SETBACK TO PRIVATE WELL
 - 85.9' SEPARATION REQUESTED (ONSITE)
 310 CMR 15.405(1)(e) - 50' VEGETATED WETLAND SETBACK
 - 42' EXISTING (BED)
 - 36' REQUESTED (BED)

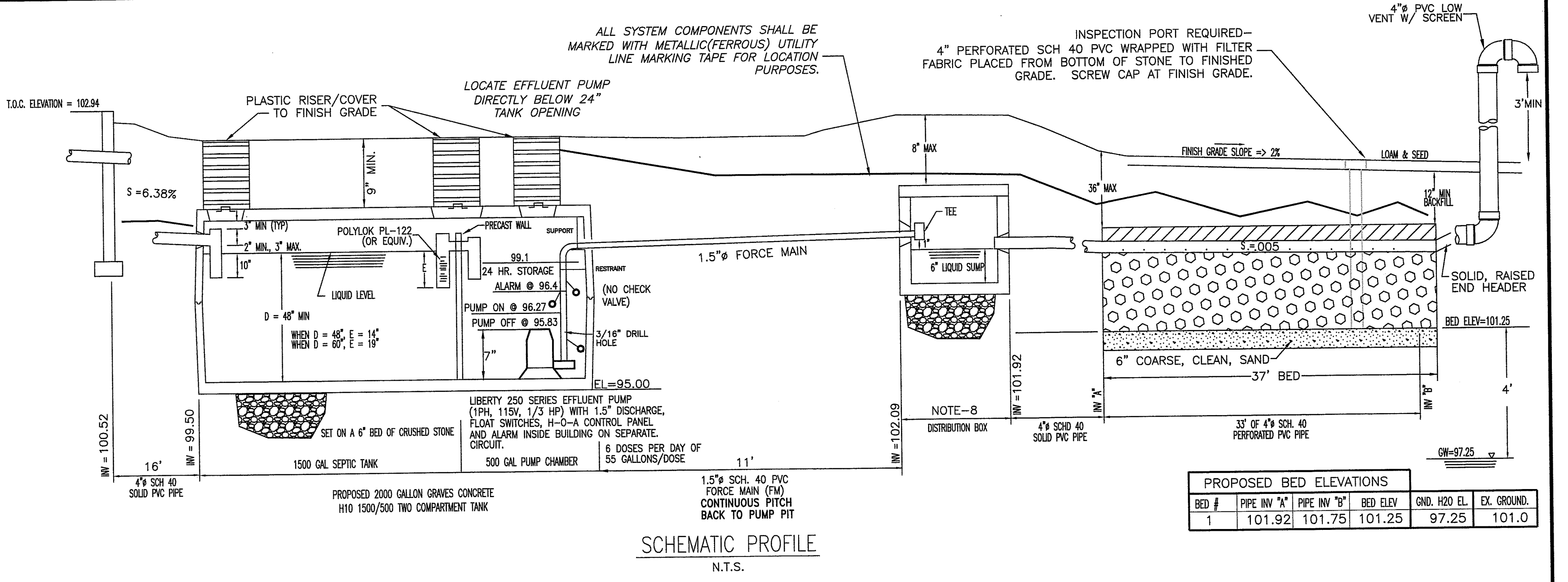


PUMP CURVE



PROPOSED TIES

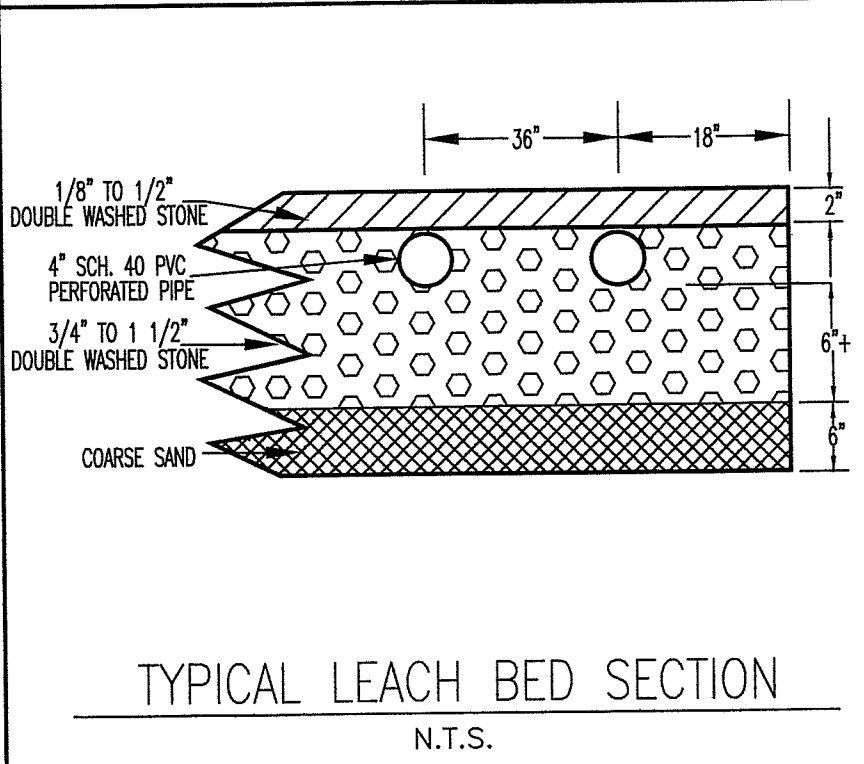
SEPTIC CORN-A	TBM(1) 54.3'	TBM(2) 62.9'
SEPTIC CORN-B	23.3'	81.7'



SCHEMATIC PROFILE N.T.S.

PROPOSED BED ELEVATIONS

BED #	PIPE INV "A"	PIPE INV "B"	BED ELEV	GND. H2O EL.	EX. GROUND.
1	101.92	101.75	101.25	97.25	101.0



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 = 2000 gal. (1500 gal. septic + 500 gal pump chamber)
- Leaching Area Design Criteria
 Percolation Rate = 9 mpi
 Soil Class Type = II (SANDY LOAM)
 Allowable Loading Rate = 6 gpd/sf
 Required Leaching Area = 330 gpd / 6 gpd/sf = 550 sf
 Leaching Area Provided = 1 bed x 37 ft bed length x 15 ft bed width = 555 sf
- Breakout
 Breakout Elevation = 102.42
 Breakout Distance = 15 ft (5' w/ barrier)
 Distance Provided = 5 ft.

LEGEND

- 242 EXISTING CONTOUR
- 242 PROPOSED CONTOUR
- TP-1A DEEP HOLE TEST PIT
- P-1A PERCOLATION TEST
- + 238.6 SPOT ELEVATION
- EXISTING STONE WALL

GENERAL NOTES

- Unless otherwise noted, property lines shown are compiled from existing plans and deeds of record.
- 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.
- Existing septic tank shall be pumped and removed in accordance with 310 CMR 15.354.
- The proposed septic tank shall be a 2000 gallon two compartment H-10 tank by Graves Concrete (or equivalent) with the pump installed in the second (500 G) compartment. Tank shall conform to all of the requirements of 310 CMR 15.221, 15.223, 15.226, 15.227, 15.228.
- 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.
- Breakout barrier to be constructed according to the detail shown on the plan.
- A notice of intent has been filed with conservation - see NOI File No. 345-0756.

SOIL TEST DATA

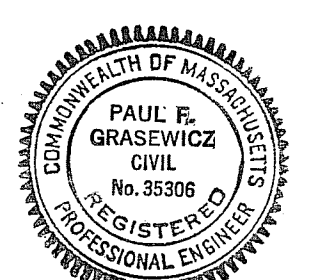
DEEP HOLE TESTS		PERC TESTS	
PERFORMED BY:	TREVOR FLETCHER, SE 14233	TREVOR FLETCHER, SE 14233	
WITNESSED BY:	STEVE CALICHMAN, JIM ABARE	STEVE CALICHMAN, JIM ABARE	
DATE:	JUNE 6, 2022	JUNE 6, 2022	

DEEP HOLE #	TP-1
0"	A
9"	Bw
18"	C1
35"	C2
90"	

ESHWT = 45" 7.5YR 5/8
 WEEPS @ 83"
 GRD EL 101.0
 GW EL 97.25
 REFUSAL EL NA

PERC TEST NUMBER	DEPTH	PERC RATE	NOTES
PH-1	42"	9 MPI	

NO.	DESCRIPTION	DATE	BY
1	REVISED TO ELIMINATE NEED FOR WAIVER FOR ABUTTER WELL RADIUS	8/1/22	TWF



DESIGNED BY TWF
 DRAWN BY TWF
 CHECKED BY TWF
 DATE 6/29/22
 SCALE 1"=20'
 JOB NUMBER 22157

SEPTIC SYSTEM UPGRADE & NOI PLAN
 MAP-4 LOT-136
 770 RIVER STREET; WINCHENDON, MA
 PREPARED FOR:
 CHRIS KAPSIMALIS
 25 PINEWOOD ROAD
 BOLTON, MA 01740

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

SHEET 1 OF 1