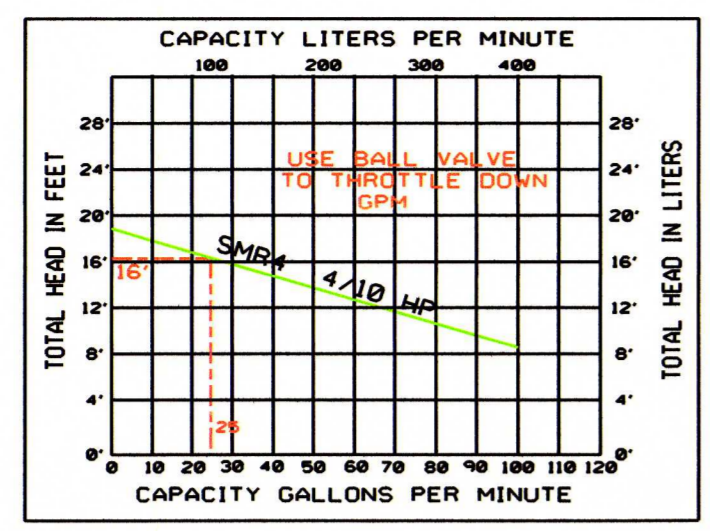


"SOIL LOGS"	
EL. 98.50' D.T.H #1	EL. 99.00' D.T.H #2
EL. 95.7' 0'-4" FILL	EL. 95.7' 0'-4" FILL
NO G.W. OBSERVED	
40'-88" C 2.5Y 5/2 SL	
MOTTLES @ 4" WEEPING @ 4" STANDING @ 80" EST. G.W. @ 44"	



SOIL EVALUATOR: BILL MORRIS SE #14396
 I CERTIFY THAT I HAVE PASSED THE EXAMINATION APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERIENCE, AND EXPERIENCE DESCRIBED IN 310 CMR 15.018 (2).
 OTHER PERSONS ON SITE AT TESTING: TETREAU CONSTRUCTION (BACKHOE)
 PERCOLATION RATE - SEE TERRAFILTER LAB ANALYSIS
 DATE SOIL EVALUATION 7/28/21
 DATE PERCOLATION TEST 7/28/21
 INSPECTOR THOMAS RYDER
 TESTING APPLICANT: FRANK CHESCHI

TERRAFILTER LAB ANALYSIS DATED 9/2/2021
 CLASSIFICATION USDA SOIL TEXT: LOAMY SAND
 CLASS 1 SOIL: 0.66 GPD/5F

EJECTOR PUMP DATA

1. USE WIERS MODEL SRM 0.4 HP (2" SOLIDS) OR EQUAL
2. FLOOR OF PUMP CHAMBER ELEV. 92.48'
3. PUMP OFF (1/2" ABOVE FLOOR) ELEV. 93.48'
4. PUMP ON (1/2" ABOVE FLOOR) ELEV. 93.73'
5. HIGH WATER ALARM ON (13" ABOVE FLOOR) ELEV. 95.23'
6. GLOBE SET AT 55 GAL (3 GALLONS FLOW BACK TO P.C.)
7. 1-22 MIN. RUNNING TIME @ 25 GPM (TDH @ 16')
8. ALARM SHALL BE POWERED BY A CIRCUIT SEPARATE FROM THE PUMP CIRCUIT. PROVIDE VISUAL AND AUDIO ALARM
9. FORCE MAIN TO DRAIN BACK INTO PUMP CHAMBER
10. GLOBE SET APPROX. SIX TIMES DAILY

BUOYANCY CALCS

W (ST) = 1500 LBS	W (PC) = 8500 LBS
W (ST SOIL) = 1500 LBS	W (PC SOIL) = 1500 LBS
W (ST) = 1500 LBS	W (PC) = 8500 LBS
W (ST SOIL) = 1500 LBS	W (PC SOIL) = 1500 LBS

APPROX. G.W. ELEV. 93.33 (ST) ELEV. 93.33 (PC)

P (ST) = 9297 LBS
 P (PC) = 8536 LBS

P (ST) = 10255 LBS
 P (PC) = 9615 LBS

EXACT SEPTIC TANK WEIGHT DEPENDS UPON MANUFACTURER WHEN EMPTY

"CONSTRUCTION NOTES"

1. EXCAVATE ALL IMPERVIOUS MATERIAL INCLUDING TOP & SUB SOIL, SILT, CLAY, ETC. TO PERVIOUS MATERIAL IN TRENCH AREA AND IN FIVE FOOT (5') GRAVEL AREA.
2. THE GRAVEL SHALL BE PLACED ACCORDING TO SEC. 15.255 SUB-SECTION 3 TO 6.
3. ELEVATION OF TITLE V CONCRETE SAND TOP OF SAND 101.00'
4. PRESBY ENVIRO LINES TO BE 175' O.C. BOTTOM OF SAND 99.00'
5. BOTTOM OF SYSTEM ASH CO. SAND.
6. ALL OUTLET PIPES FROM THE DISTRIBUTION BOX TO HAVE A MINIMUM OF 6" TO INLET OF ENVIRO PIPE.
7. NO SURFACE, SUBSURFACE OR OPEN DRAINS THAT INTERCEPT GROUNDWATER WITHIN 25 FEET OF THE SEPTIC TANK OR 50 FEET FROM THE LEACHING SYSTEM.
8. ENGINEER TO INSPECT BOTTOM EXCAVATION OF LEACHING AREA PRIOR TO GRAVEL PLACEMENT.
9. HYDRAULIC CEMENT TO BE USED TO SEAL CONNECTIONS AT THE FOUNDATION, SEPTIC TANK, DIST. BOX, & ALL UNUSED OUTLETS.
10. M & SEED ALL DISTURBED AREAS. (ENVIRONMENTAL MATTING ON SLOPES > 50%)
11. CONSTRUCTION OF SEPTIC TANK, DOSING CHAMBER & DISTRIBUTION BOX SHALL CONFORM WITH 310 CMR 15.221 THROUGH 15.226

ADDITIONAL NOTES

1. TOWN PERMIT *
2. SEPTIC TANK TO BE PUMPED ANNUALLY
3. WELL TO BE TESTED EVERY TWO YEARS.
4. PLAN IS NOT TO BE LOCATED WITHIN A FLOOD HAZARD ZONE. FEMA MAP #25027C1030E
5. KNOWN EASEMENTS ON LOT. YES : NO
6. SYSTEM LOCATED IN NITROGEN SENSITIVE AREA AS DEFINED BY THE MA DEP OR TITLE V. YES : NO

DESIGN INFORMATION

1. DESIGN RATE 10 M.P.I.
2. SLOPE OF SYSTEM TO BE LEVEL
3. 140 LINEAL FEET OF ENVIRO PIPE REQUIRED
4. USE 210 LINEAL FEET
5. NO GARBAGE DISPOSAL UNIT
6. 2 BEDROOM HOUSE ; DESIGN FLOW 330 GPD
7. NO OTHER WELL WITHIN 150 FEET OF THE PROPOSED SYSTEM
8. OTHER THAN SHOWN ON PLAN, NO OTHER SYSTEM WITHIN 200 FEET OF THE PROPOSED WELL OTHER THAN SHOWN ON PLAN.
9. WATER SOFTENERS SHALL NOT CONNECT TO SEPTIC TANK.
10. STORMWATER DRAINAGE ON SITE. YES : NO
11. POTABLE WATER SUPPLY (PUBLIC) ON SITE. YES : NO
12. ALL KNOWN UTILITY LOCATIONS (APPROX.) ON SITE ARE SHOWN.
13. CONTRACTOR SHALL NOTIFY DIG-SAFE AT 1-888-344-7233 PRIOR TO CONSTRUCTION.

NOTE: ALL SEWER STRUCTURES ARE ABOVE MAXIMUM GROUND WATER.
 YES : NO SEE HYDRAULIC CALCULATIONS

LEGEND

DEEP TEST HOLE	
PERCOLATION TEST HOLE	
EXISTING CONTOURS	
PROPOSED CONTOURS	
BENCH MARK	
SPOT ELEVATIONS (approx)	
SPOT ELEVATIONS (test)	
WATERLINE	
OVERHEAD WIRE	
GAS LINE	

PRESBY ENVIRO-SEPTIC LOADING CALCULATIONS

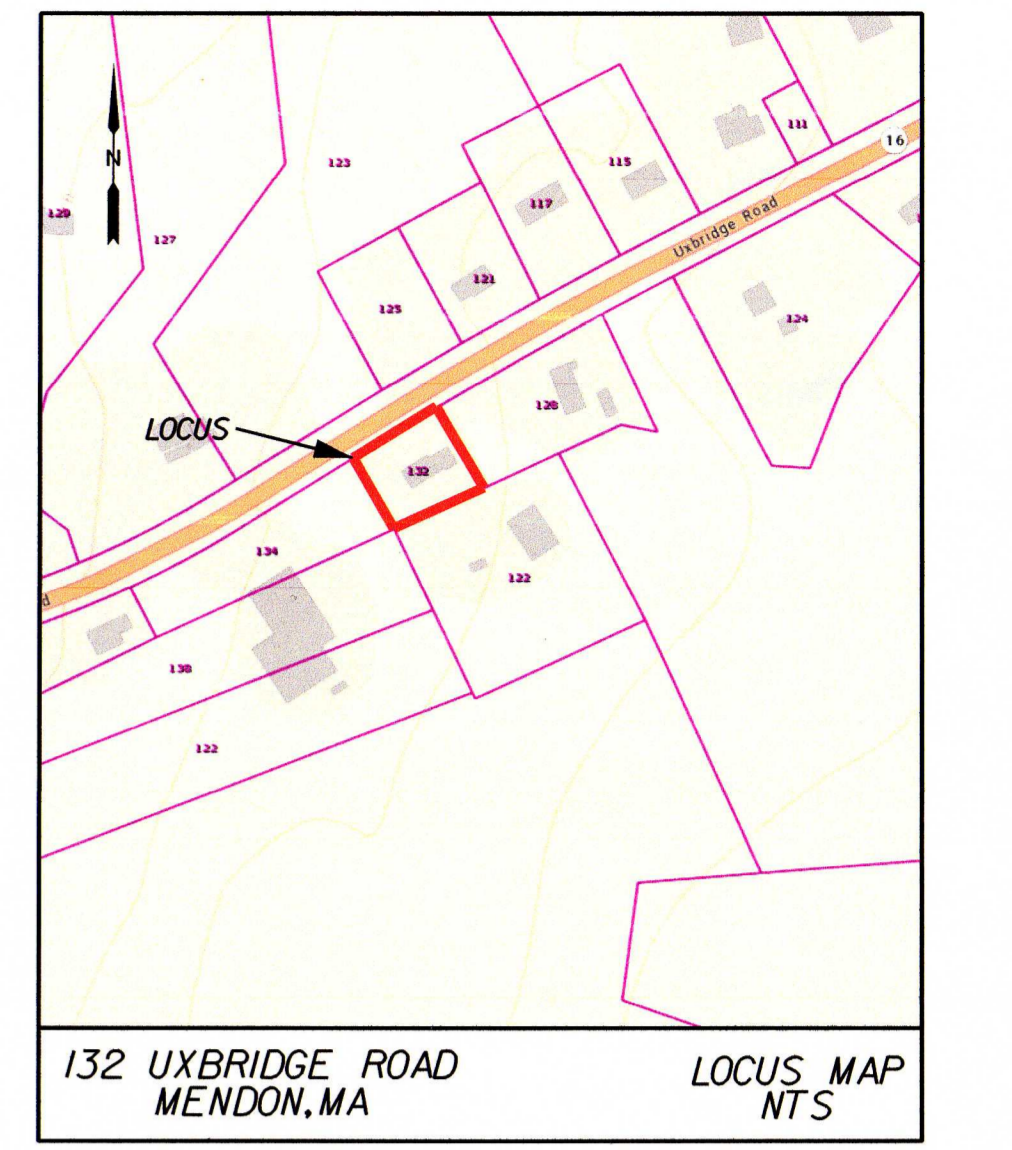
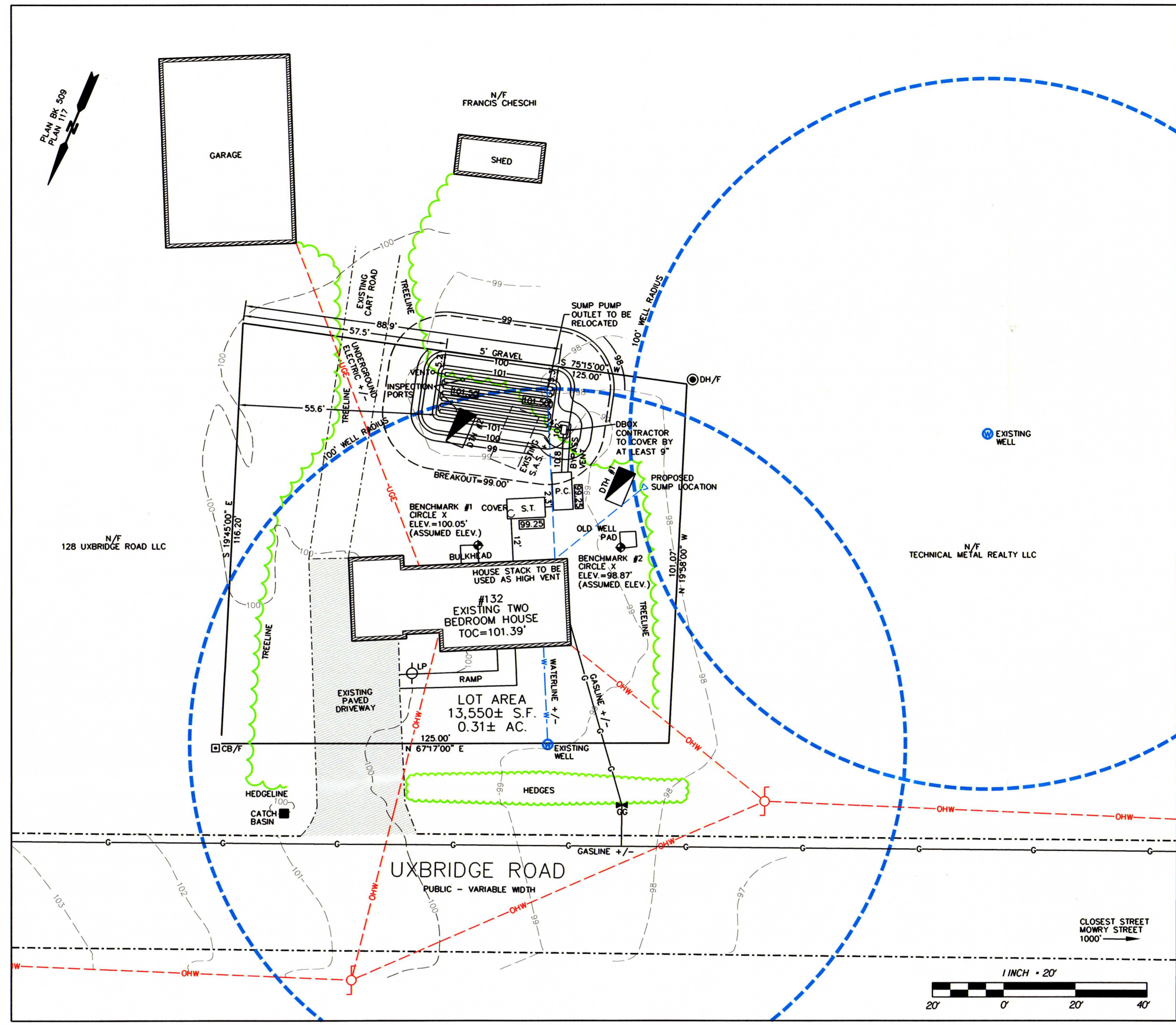
ENVIRO-SEPTIC PIPE DIAMETER 12"

PER TITLE V MIN. OF 400 SF. FOR LEACHING AREA: 210 LF. OF ENVIRO PIPE FOR 3 BDRM DESIGN WITH A PERC RATE OF 10 M.P.I.

LENGTH OF PIPE 210 LF. @ 30' LENGTHS AT 175' O.C.

BED AREA PER DEP MINIMUM EFFECTIVE LEACHING AREA 400 SF.

LAYOUT 7 LINES AT 30' LONG, SPACED 175' ON CENTER, 13.5' WIDE X 32' LONG = 432 SF.



LOCAL UPGRADE APPROVAL REQUEST FOR THE FOLLOWING:
 PER 310 CMR 15.211:
 SAS TO PROPERTY LINE 10' REQUIRED - 5' PROPOSED.
 SAS TO WELL 100' REQUIRED - 88' PROPOSED.

INSTALLER SHALL INSTALL THE SYSTEM IN ACCORDANCE WITH THE PRESBY WASTEWATER TREATMENT SYSTEM'S MA ENVIRO-SEPTIC DESIGN AND INSTALLATION MANUAL AND THE CONDITIONS AS SET FORTH IN DEPARTMENT OF ENVIRONMENTAL PROTECTION'S CERTIFICATION FOR THE PRESBY ENVIRO-SEPTIC SYSTEM ISSUED ON MARCH 19, 2019.

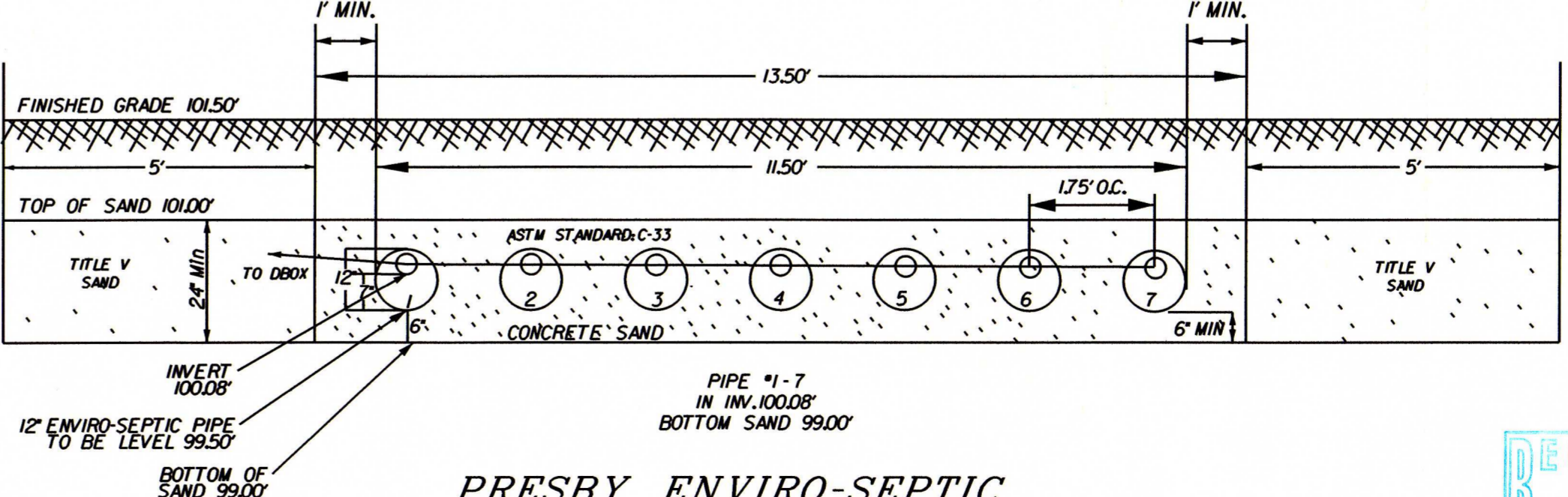
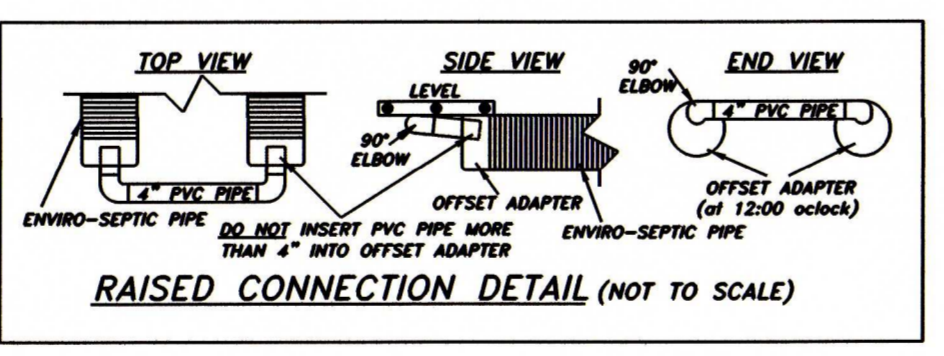
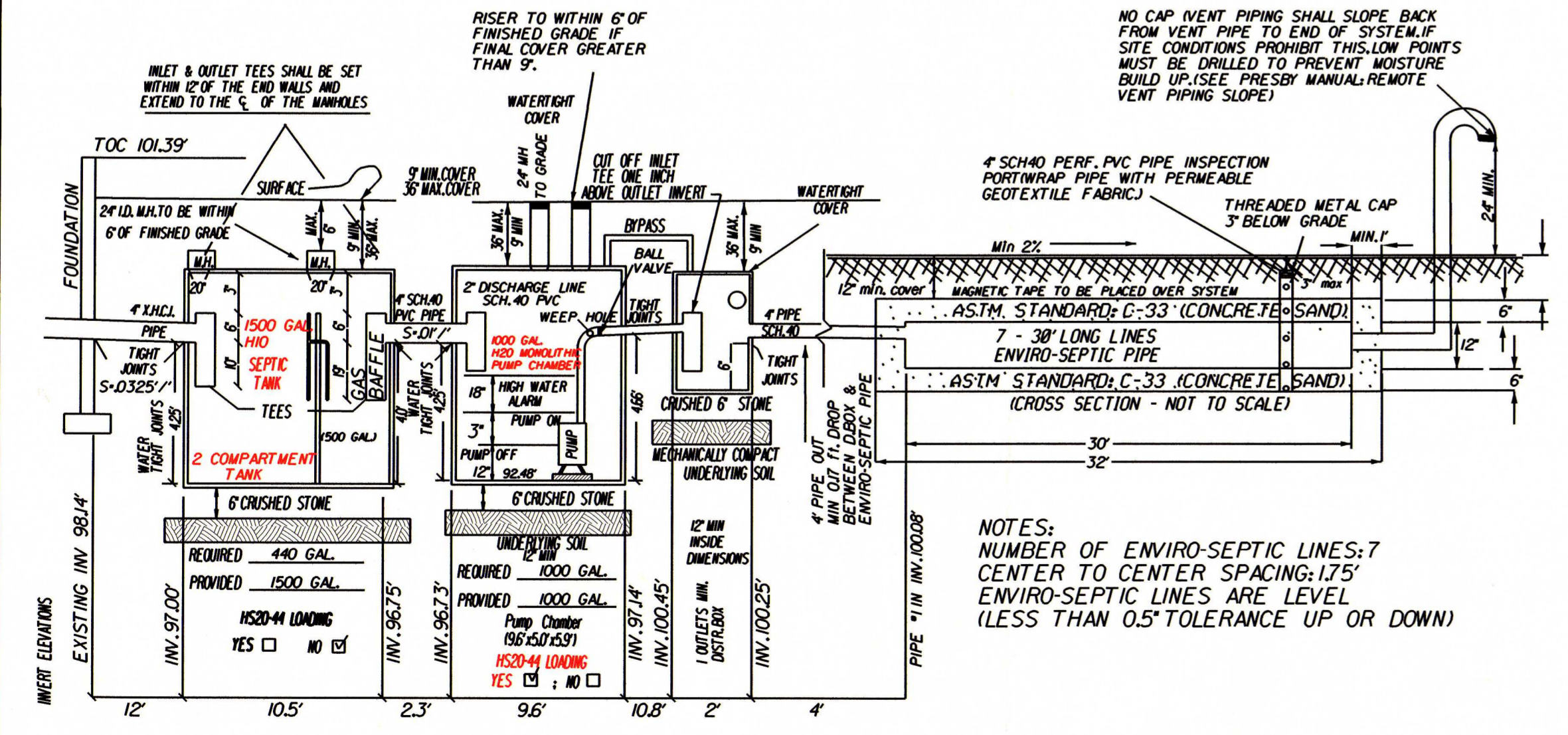
ALL EXST. SUBSURFACE UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. THE ENGINEER DOES NOT CERTIFY LOCATIONS OR ELEVATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM LOCATION AND ELEVATION OF EXISTING SEWER.

TOPOGRAPHIC SURVEY WAS CONDUCTED IN OCTOBER, 2021.

THIS PLAN IS TO BE USED FOR A SEPTIC DESIGN PLAN ONLY. THIS PLAN IS NOT TO BE USED TO ESTABLISH PROPERTY LINES. PROPERTY INFORMATION WAS COMPILED FROM RECORDED DEEDS AND PLANS. SEE PLAN BOOK 509, PLAN 117.

ANY EXISTING GARBAGE DISPOSALS TO BE REMOVED.
 CONTRACTOR TO NOTIFY ENGINEER IF FIELD CONDITIONS CHANGE OR ARE DIFFERENT THAN WHAT IS REPRESENTED ON THIS PLAN.

NEITHER ENGINEER OR BOARD OF HEALTH CAN OFFER A GUARANTEE OF LONGEVITY OF THE SEWAGE DISPOSAL SYSTEM. SYSTEM WAS DESIGNED IN ACCORDANCE WITH TITLE V AND STANDARD ENGINEERING PRACTICES. PROPER USE AND MAINTENANCE ARE KEY IN ENSURING THE LIFE AND FUNCTIONALITY OF THIS SYSTEM.

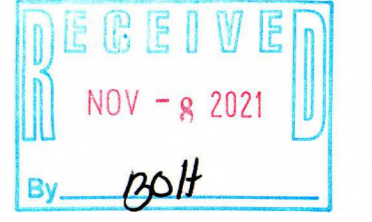


INSPECTION SCHEDULE

1. BOTTOM OF EXCAVATION PRIOR TO PLACEMENT OF FILL
2. AFTER COMPLETION OF THE SYSTEM PRIOR TO BACKFILLING
3. RUGH AND/OR FINAL GRADING.
4. SLOPE STABILIZATION.

NOTE: INSPECTIONS TO BE CONDUCTED ACCORDING TO THE REGULATIONS OF THE MENDON BOARD OF HEALTH

PRESBY ENVIRO-SEPTIC
 EFFLUENT DISPOSAL AREA
 CROSS SECTION - NOT TO SCALE



PLAN BOOK/PLAN 509/117
 DEED BOOK/PAGE 37228/130
 OWNER FRANK CHESCHI
 MAP/LOT 15-28-132
 ZONE RURAL RESIDENTIAL
 LOT 2

REVISION #	DESCRIPTION	DATE

REPAIR

SEWAGE DISPOSAL SYSTEM
 FOR
 FRANK CHESCHI
 132 UXBRIDGE ROAD
 MENDON, MA 01756

OCTOBER 18, 2021

Civil SITE ENGINEERING LLC
 SUITE 206
 10 RIVER ROAD
 UXBRIDGE, MA 01569
 SITE PLANNING SEPTIC DESIGN WETLANDS

SCALE: 1" = 20'

PROJ. S21158.DGN