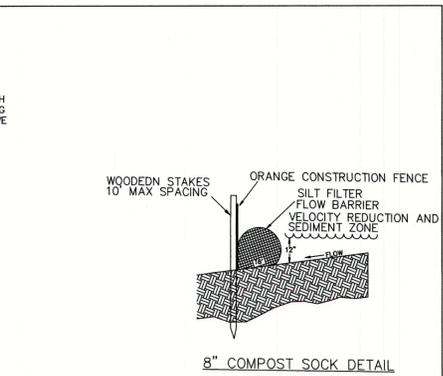
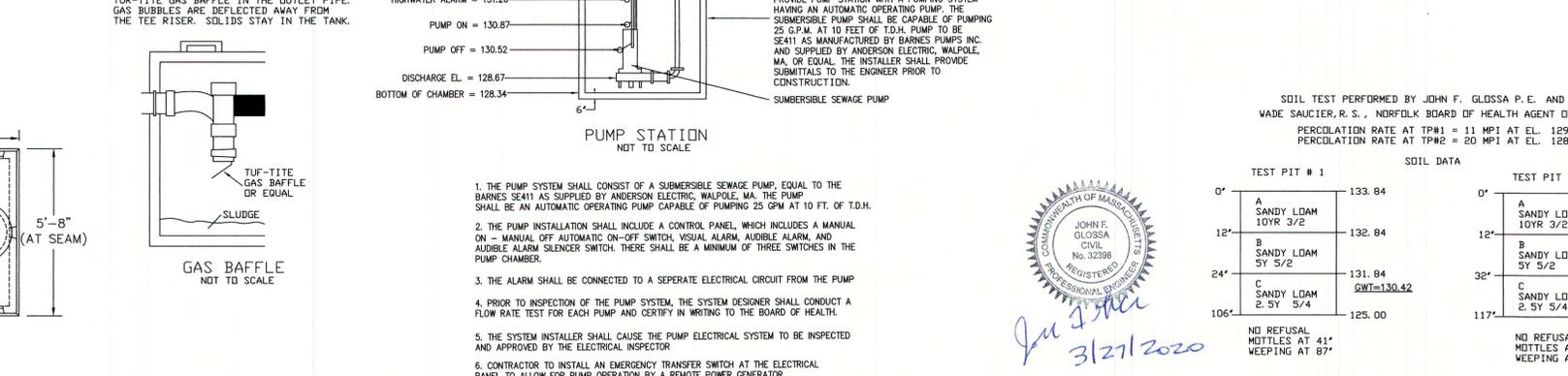
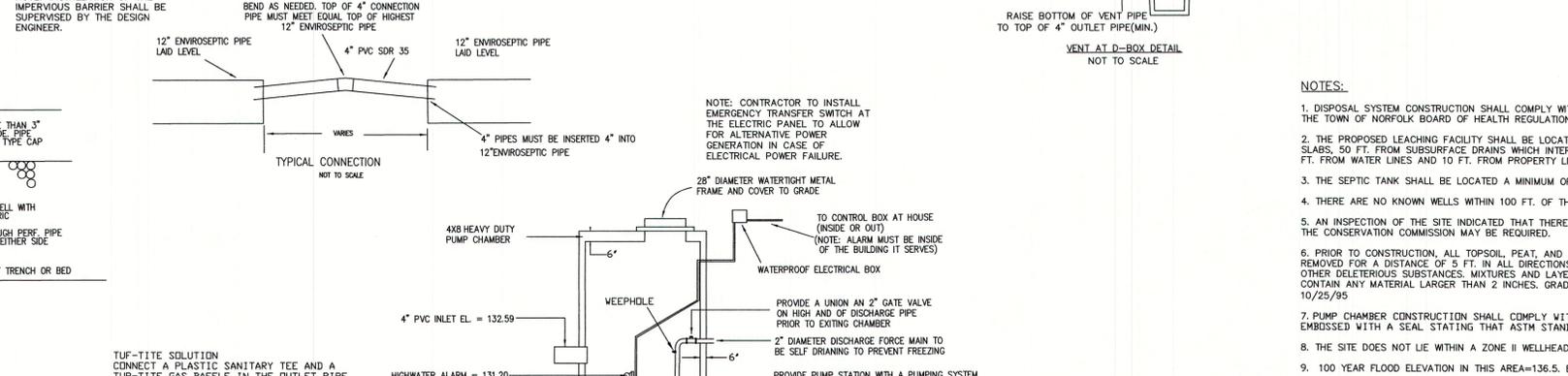
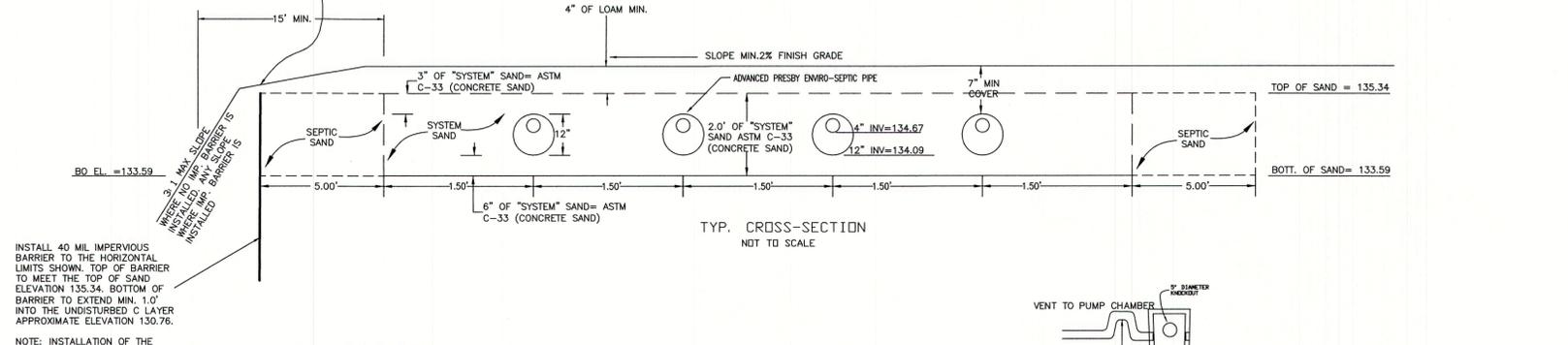
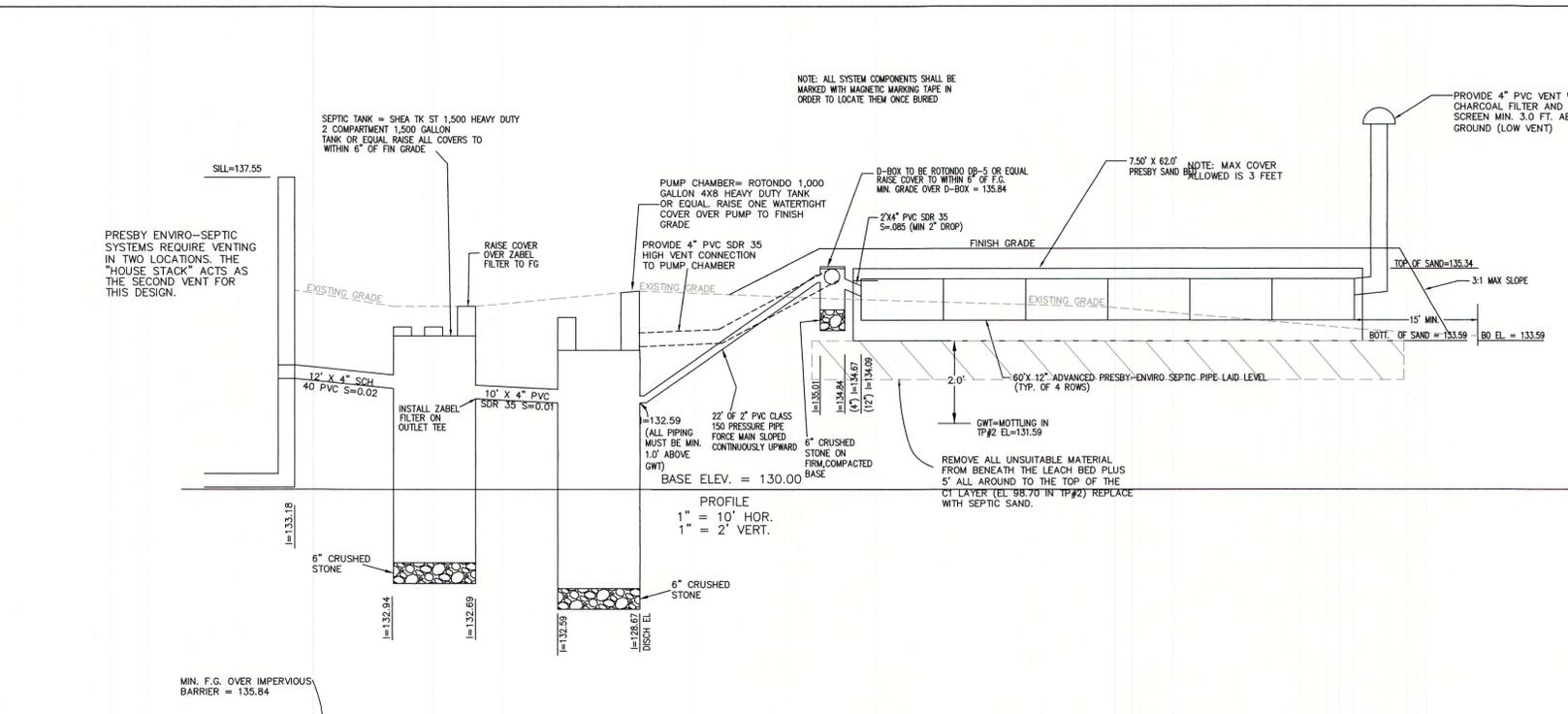
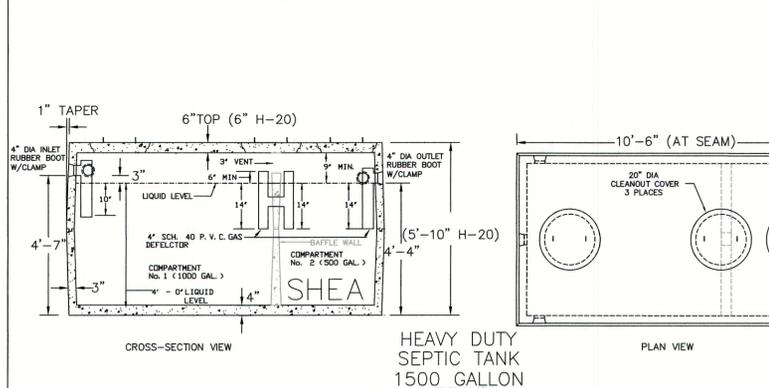
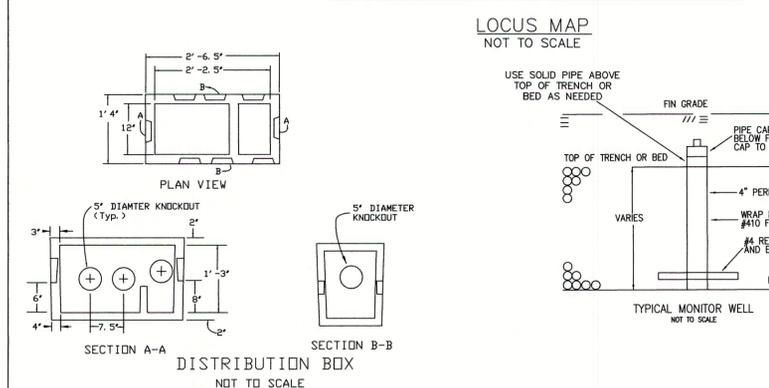
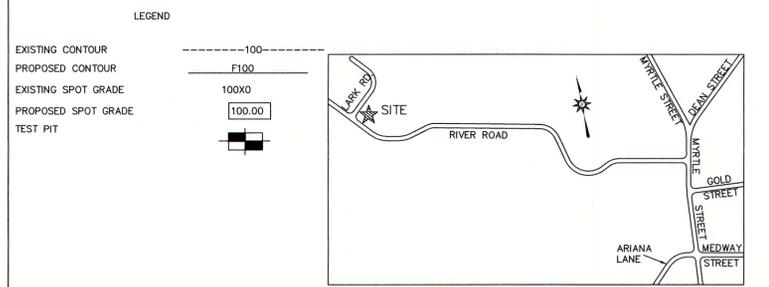


CONSTRUCTION NOTE:
 CONSTRUCTION ACCESS IS LIMITED TO THE EXISTING DRIVEWAY. PRIOR APPROVAL AND PERMITTING FROM THE TOWN OF NORFOLK HIGHWAY DEPARTMENT WILL BE REQUIRED FOR AN AREA OF DISTURBANCE WITHIN THE RIGHT OF WAY TO OBTAIN ACCESS AND INSTALL THE PROPOSED SYSTEM



DESIGN CALCULATIONS
 PER TITLE V
 3 BEDROOMS X 110 GPD/BEDROOM = 330 GPD
 GARBAGE GRINDER IF ANY TO BE REMOVED
 USE PRESBY ADVANCED ENVRIO-SEPTIC WASTE WATER TREATMENT SYSTEM
 DRED NOTIFICATION REQUIRED
 PERC RATE = 20 MPI CLASS II SOIL
 SIZE LEACH BED PER PRESBY (400 S.F. REQUIRED PER TABLE C ON PAGE 13)
 INSTALL 7.50 FT. WIDE X 62.00 FT. LONG SAND BED
 SIDEWALL AREA NONE ALLOWED = 0 S.F.
 BOTTOM AREA 7.50 FT. X 62.00 FT. = 465.00 S.F.
 0 S.F. + 465 S.F. = 465.00 S.F. > 400.00 S.F.
 SEPTIC TANK CALCULATION
 330 GAL. X 200% = 660 GAL. REQUIRED
 INSTALL NEW 1,500 GALLON TWO-COMPARTMENT SEPTIC TANK
 PER PRESBY REQUIREMENTS
 FOR A 3 BEDROOM HOUSE WITH A 20 MPI PERC RATE
 INSTALL A 7.50 FT. WIDE X 62.00 FT. LONG SAND BED WITH A CROSS SLOPE = 0%
 PER PRESBY TABLE A
 210 L.F. OF PRESBY PIPE PROVIDED
 4 LINES X 60 FT. = 240 L.F. REQUIRED
 PER PRESBY TABLE B
 PERC RATE 20 = L/TAR OF 0.883
 MINIMUM CENTER-TO-CENTER SPACING IS 1.5 FT. FOR 1-60 MPI (SECTION 4.4 PAGE 4 OF AES MANUAL)
 PER PRESBY SECTION 4.27 (PAGE 7)
 1.00 FT. SAND EXTENSIONS REQUIRED
 1.50 FT. SAND EXTENSIONS PROVIDED
 PER PRESBY TABLE C
 400 S.F. REQUIRED
 465 S.F. PROVIDED

NOTES:
 1. DISPOSAL SYSTEM CONSTRUCTION SHALL COMPLY WITH THE COMMONWEALTH OF MASSACHUSETTS ENVIRONMENTAL CODE TITLE 5, AND THE TOWN OF NORFOLK BOARD OF HEALTH REGULATIONS FOR SEPTIC SYSTEM REPAIRS.
 2. THE PROPOSED LEACHING FACILITY SHALL BE LOCATED A MINIMUM OF 20 FT. FROM FOUNDATION WALLS, 10 FT. FROM BUILDING SLABS, 50 FT. FROM SUBSURFACE DRAINS WHICH INTERCEPT GROUNDWATER, 10 FT. FROM OTHER SURFACE AND SUBSURFACE DRAINS, 10 FT. FROM WATER LINES AND 10 FT. FROM PROPERTY LINES.
 3. THE SEPTIC TANK SHALL BE LOCATED A MINIMUM OF 10 FT. FROM FOUNDATION WALLS, BUILDING SLABS, AND WATER LINES
 4. THERE ARE NO KNOWN WELLS WITHIN 100 FT. OF THE PROPOSED LEACHING FACILITY
 5. AN INSPECTION OF THE SITE INDICATED THAT THERE ARE WETLANDS WITHIN 100 FT. OF THE PROPOSED CONSTRUCTION. A FILING WITH THE CONSERVATION COMMISSION MAY BE REQUIRED.
 6. PRIOR TO CONSTRUCTION, ALL TOPSOIL, PEAT, AND OTHER IMPERVIOUS MATERIAL BENEATH THE LEACHING FACILITY SHALL BE REMOVED FOR A DISTANCE OF 5 FT. IN ALL DIRECTIONS AND REPLACED WITH CLEAN, GRANULAR SAND FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES, MIXTURES AND LAYERS OF DIFFERENT CLASSES OF SOIL SHALL NOT BE USED. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 INCHES. GRADATION OF THE FILL SHALL COMPLY WITH 310 CMR SECTION 15.255, AS AMENDED 10/25/95
 7. PUMP CHAMBER CONSTRUCTION SHALL COMPLY WITH 310 CMR 15.226 - CONSTRUCTION OF SEPTIC TANKS. TANKS SHALL BE EMBOSSED WITH A SEAL STATING THAT ASTM STANDARD C 1227 - 93 HAS BEEN MET.
 8. THE SITE DOES NOT LIE WITHIN A ZONE II WELLHEAD PROTECTION AREA.
 9. 100 YEAR FLOOD ELEVATION IN THIS AREA=136.5. ENTIRE LOCUS IS WITHIN THE 100 YEAR FLOOD PLAN.

OWNER/APPLICANT
 THOMAS S. & PHYLLIS TERPSTRA
 78 RIVER ROAD
 NORFOLK, MA 02056

ASSESSOR'S PARCEL
 MAP 5 BLOCK 27 LOT 1

SOIL TEST PERFORMED BY JOHN F. GLOSSA P.E. AND WITNESSED BY WADE SAUCIER, R.S., NORFOLK BOARD OF HEALTH AGENT ON MARCH 26, 2020.

TEST PIT #	DEPTH	PERCOLATION RATE
TEST PIT # 1	A SANDY LDM 10YR 3/2	133.84
	B SANDY LDM 5Y 5/2	132.84
	C SANDY LDM 2.5Y 5/4	131.84
TEST PIT # 2	A SANDY LDM 10YR 3/2	134.43
	B SANDY LDM 5Y 5/2	133.43
	C SANDY LDM 2.5Y 5/4	131.76

ND REFUSAL MOTTLES AT 41" WEeping AT 87"

#78 RIVER ROAD
 ON-SITE SEWAGE TREATMENT AND DISPOSAL PLAN OF LAND IN
 NORFOLK, MA
 SCALE: AS SHOWN MARCH 27, 2020
 GLOSSA ENGINEERING INC.
 46 EAST STREET
 NORFOLK, MA 02056-6688-4401



John F. Glossa
 3/27/2020