

LOCUS
NOT TO SCALE

GENERAL NOTES:
 1. THE SLOPE OF BUILDING SEWER FROM DWELLING TO SEPTIC TANK SHALL NOT BE LESS THAN 1 PERCENT AND NOT GREATER THAN 5 PERCENT.
 2. USE SCH 40 PVC PIPING OR EQUIVALENT THROUGHOUT SEWAGE SYSTEM, EXCEPT AS NOTED.
 3. NO WELL EXISTS WITHIN 200 FEET OF THE PROPOSED SEWAGE SYSTEM EXCEPT AS SHOWN.
 4. IF A WELL IS PROPOSED, NO SEWAGE SYSTEM EXISTS WITHIN 200 FEET OF THE PROPOSED WELL EXCEPT AS SHOWN.
 5. ALL WELLS, EXISTING AND PROPOSED, WITHIN 200 FEET OF THE SEWAGE SYSTEM ARE SHOWN. ALL PUBLIC WELLS, EXISTING AND PROPOSED, WITHIN 500 FEET OF THE SEWAGE SYSTEM AREA ARE SHOWN.
 6. IF A DRIVEWAY OR PAVEMENT IS TO BE NEAR THE SEWAGE SYSTEM, A PROTECTIVE BERM IS TO BE PLACED AROUND THE SEWAGE SYSTEM IN THE AREA OF THE DRIVEWAY OR PAVEMENT TO PREVENT VEHICULAR TRAFFIC TRAVELING OVER THE SEWAGE SYSTEM.
 7. INSTALLER TO MEET ALL O.W.T.S. SPECIFICATIONS AND REQUIREMENTS.
 8. NO DRAINS OF ANY KIND SHALL BE LOCATED WITHIN 25 FEET OF THE PROPOSED SEWAGE SYSTEM.
 9. THE FINISH GRADE AT 5 FEET FROM ALL SIDES OF LEACHING FIELD SHALL NOT BE LOWER THAN ELEVATION OF 85.0 WITH 3:1 SLOPE.
 10. OWNER AND/OR BUILDER IS RESPONSIBLE FOR BUILDING AND LEACHING FIELD MEETING LOCAL ZONING SETBACK REQUIREMENTS.
 11. ALL UNDERGROUND UTILITIES AND STRUCTURES ARE APPROXIMATE AND MUST BE FIELD VERIFIED BEFORE THE START OF ANY CONSTRUCTION OR EXCAVATION.
 12. THE PROPOSED SILT FENCE IS TO BE INSTALLED BEFORE THE START OF ANY CONSTRUCTION AND REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE REVEGETATED.
 13. THE SILT FENCE IS TO BE INSPECTED ONCE A MONTH OR AFTER ALL STORM EVENTS AND REPAIRED AS NEEDED.
 14. INSTALLER IS RESPONSIBLE FOR MEETING ALL SEPTITECH SPECIFICATIONS AND REQUIREMENTS.
 15. REMOVAL OF ALL TREES, BRUSH, SHRUBS AND BOULDERS IS TO EXTEND 10- FEET BEYOND ALL SIDE OF THE PROPOSED BOTTOMLESS SAND FILTER.
 16. ALL EXISTING WELLS SHOWN ARE TAKEN FROM ACTUAL FIELD LOCATIONS.
 17. ALL LEACHING FIELDS SHOWN ARE TAKEN FROM FIELD SURVEY OR EXISTING PLANS.
 18. NO PRESSURE TREATED TIMBERS ARE TO BE USED BELOW FINISHED GRADE.
 19. PARCEL BEING ASSESSOR'S PLAT 39, LOT 92.
 20. PARCEL AREA EQUALS 20,136 S.F.

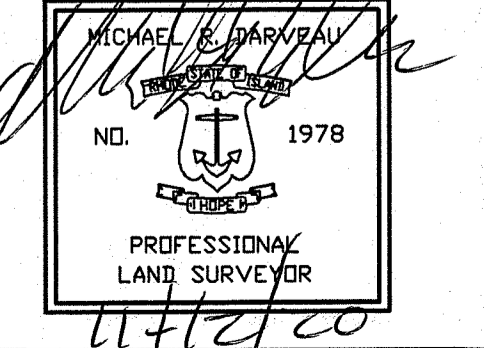
SEPTIC TANK NOTES:
 1. ONE INLET AND ONE OUTLET SHALL BE PROVIDED THROUGH THE APPROPRIATE END OR SIDE WALL OF EACH TANK. WHERE MORE THAN ONE INLET IS REQUIRED FOR MULTIPLE BUILDING SEWERS, THE TANK SHALL BE MANUFACTURED WITH THE APPROPRIATE NUMBER OF INLETS.
 2. THE INVERT ELEVATION OF THE OUTLET SHALL BE AT LEAST 3 INCHES BELOW THE INVERT ELEVATION OF THE INLET, AND ABOVE THE SEASONAL HIGH GROUNDWATER TABLE.
 3. THE OUTLET AND INLET PIPES SHALL BE CONNECTED TO THE SEPTIC TANK WITH A WATER TIGHT SEALED FLEXIBLE JOINT. THE PIPE GASKET SHALL BE AN INTEGRAL PART OF ALL TANKS AND THE PIPE GASKET SHALL BE FASTENED TO THE PIPE WITH A STAINLESS STEEL RETRACTABLE CLAMP. A FRICTION FIT CONNECTION IS ONLY ALLOWED IF THE TANK IS PERFORMANCE TESTED.
 4. SEPTIC TANKS SHALL BE PROVIDED WITH AN INLET SANITARY TEE AND OUTLET TEES OR OTHER NON-CORRODING EQUIVALENT DEVICE APPROVED BY THE DIRECTOR. THE INLET AND OUTLET TEES SHALL BE MINIMUM SDR 35 PVC SOLVENT WELDED. THE TOPS OF THE TEES SHALL EXTEND A MINIMUM OF 6 INCHES ABOVE THE FLOW LINE, AND SHALL BE LEFT OPEN TO PROVIDE VENTILATION. THERE SHALL BE AN AIR SPACE OF AT LEAST 3 INCHES BETWEEN THE TOP OF THE TEES AND TOP INTERIOR OF THE TANK.
 5. THE INLET SANITARY TEE SHALL EXTEND DOWNWARD AT LEAST 12 INCHES BELOW THE FLOW LINE.
 6. THE OUTLET TEE SHALL EXTEND DOWNWARD 1/3 OF THE DEPTH BELOW THE FLOW LINE. ALL OUTLET TEES OR OTHER APPROVED OUTLET DEVICES SHALL BE EQUIPPED WITH AN EFFLUENT SCREEN.
 7. SPECIFICATIONS FOR INLET TEES AND OUTLET TEES ARE FOR NORMAL, LOW-FLOW CONDITIONS. HIGH-FLOW CONDITIONS, CREATED WITH LIQUID IS PUMPED FROM ANOTHER TANK, MAY REQUIRE OTHER DIMENSIONS AND SPECIFICATIONS.
 8. A MINIMUM 20 INCHES INSIDE DIAMETER ACCESS OPENING SHALL BE LOCATED OVER BOTH THE INLET TEE AND OUTLET TEE. ALL SEPTIC TANK OPENINGS SHALL MEET THE FOLLOWING REQUIREMENTS:
 9. THE ACCESS OPENING OVER THE OUTLET TEE SHALL BE BROUGHT TO FINISHED GRADE. OTHER ACCESS OPENINGS SHALL EITHER BE BROUGHT TO FINISHED GRADE OR WITHIN 12 INCHES OF FINISHED GRADE. WHERE A RISER IS REQUIRED, IT SHALL BE WATER TIGHT.
 10. LIDS ON TOP OF THE SEPTIC TANK SHOULD REMAIN IN PLACE WHERE PRACTICAL. LIDS FOR THE OPENING AT FINISHED GRADE SHALL PREVENT UNAUTHORIZED ENTRY BY MEETING EITHER OF THE FOLLOWING: (A) LID SHALL WEIGH A MINIMUM OF 50 POUNDS AND FIT TIGHTLY ON TO THE RISER OR (B) LID SHALL BE TAMPER RESISTANT AND MECHANICALLY FASTENED.
 11. THE SEPTIC TANK MANUFACTURERS SHALL PROVIDE AND LICENSED OWTS INSTALLERS SHALL ATTACH A LABEL OF NON-CORROSIVE MATERIAL IN A PROMINENT LOCATION AT EACH ACCESS OPENING TO WARN THAT "ENTRANCE INTO THE TANK COULD BE FATAL."
 12. SURFACE WATER SHALL BE DIVERTED AWAY FROM THE SEPTIC TANK OPENING.
 13. ACCESSIBILITY TO SEPTIC TANKS SHALL BE LOCATED ON THE LOT AS TO BE ACCESSIBLE FOR SERVICING AND CLEANING.
 14. INSTALLATION OF ALL SEPTIC TANKS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S MINIMUM REQUIREMENTS. IN ADDITION, ALL SEPTIC TANKS MUST MEET THE INSTALLATION REQUIREMENTS SPECIFIED.
 15. THE SEPTIC TANK SHALL BE INSTALLED ON A LEVEL, STABLE BASE THAT WILL NOT SETTLE.
 16. BACKFILL SHALL BE PLACED AROUND THE SEPTIC TANK IN SUCH A MANNER AS TO AVOID DAMAGE TO IT. ALL BACKFILL PLACED AROUND THE SEPTIC TANK SHALL BE FREE OF LARGE STONES, STUMPS, WASTE, CONSTRUCTION MATERIAL AND RUBBISH.
 17. WHERE ANY PORTION OF A SEPTIC TANK IS INSTALLED BELOW THE SEASONAL HIGH GROUNDWATER TABLE, THE TANK'S SUSCEPTIBILITY TO FLOATION SHALL BE DETERMINED, AND PROVISIONS SHALL BE MADE TO PREVENT FLOATION, WHERE NECESSARY AS DETERMINED BY FLOATION CALCULATIONS.
 18. WHENEVER MORE THAN 25 PERCENT OF THE DAILY DESIGN FLOW IS PUMPED INTO A SEPTIC TANK, THE TANK CAPACITY SHALL BE INCREASED BY 50 PERCENT BEYOND THE MINIMUM CAPACITIES.
 19. THE MINIMUM COVER OVER THE INVERT OF THE OUTLET SHALL BE 18 INCHES. IF THE DEPTH OF COVER EXCEEDS 42 INCHES, THE OWTS APPLICATION SHALL INCLUDE DOCUMENTATION OF THE TANK'S ABILITY TO STRUCTURALLY WITHSTAND THE LOADING, AND THE TANK'S DESIGN SHALL ALLOW FOR PROPER MAINTENANCE AND ACCESS.
 20. THE SEPTIC TANK SHALL BE A MINIMUM OF 75 FEET FROM ALL WELLS.

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

TYPE OF SURVEY: LIMITED CONTENT BOUNDARY SURVEY
 MEASUREMENT SPECIFICATION: CLASS III
 DATA ACCUMULATION SURVEY CLASS III

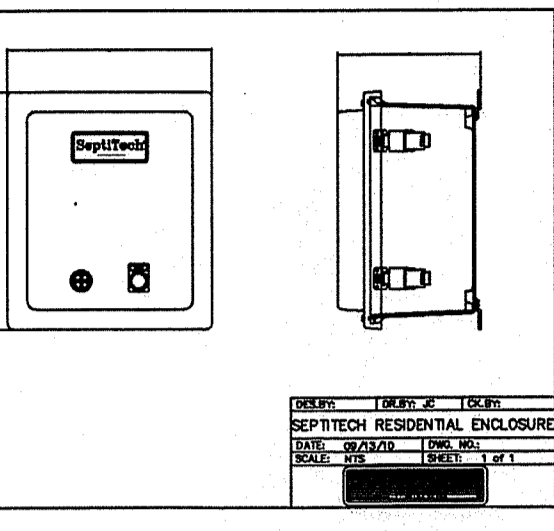
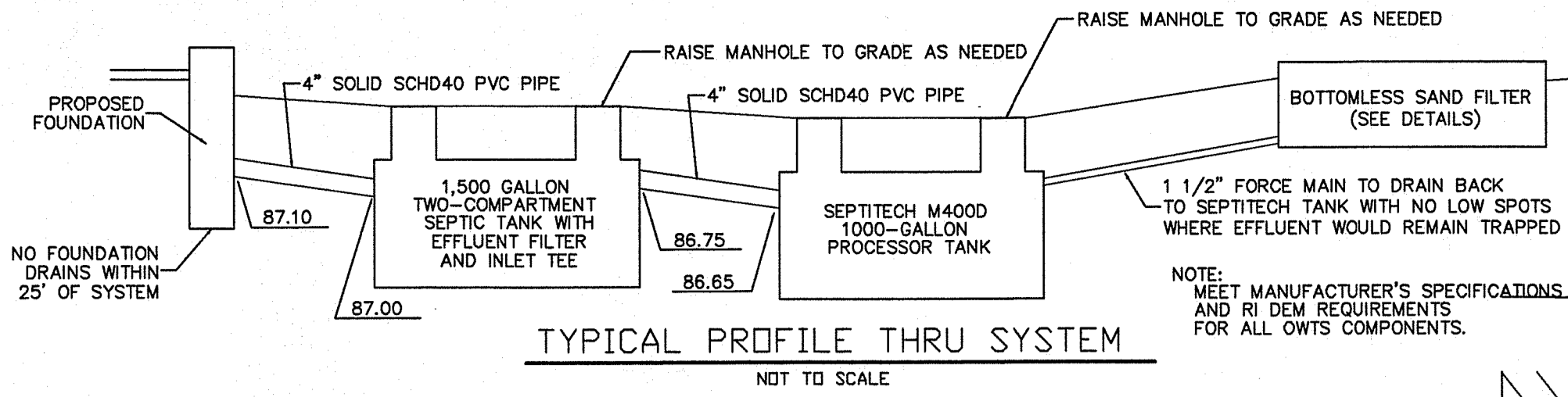
STATEMENT OF PURPOSE:
 THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:
 1) PREPARE A PROPOSED O.W.T.S. PLAN.

BY: MICHAEL R. DARVEAU, PLS#1978
 PRESIDENT, DARVEAU LAND SURVEYING, INC.
 DATE: 11/26/20
 COA #LS-A497



GENERAL SEPTITECH NOTES:

- Tank(s) shall not be installed at a depth greater than 24-inches. Tank installations requiring a depth greater than 24-inches shall do so with prior approval by SeptiTech only.
- Tank(s) shall be placed on a minimum of 6-inch (12-inches preferred) of compacted sand, peastone or stone dust bedding. Select fill shall be used for backfilling around tanks. Native material may be used if approved by the design engineer.
- Water Testing: Contractor is responsible for water testing the concrete tank(s) once the tank(s) installation has been completed and allowed to set overnight. Water testing shall be conducted in accordance with ASTM C1227.9.2. Installing contractor shall be responsible for providing clean water for the testing, filling the tanks, and pumping the tanks dry once testing is completed.
- Exterior Piping: Contractor is responsible for supplying and installing all exterior piping per SeptiTech installation drawings.
- Air Intake Piping: Air intake snorkel shall be installed within 100 feet of the processor tank. Air intake piping shall be installed such that a positive pitch is provided back towards the processor tank such that any condensation build up is free to drain.
- Pipe Insulation: Contractor is responsible for insulating all piping exterior to the SeptiTech processor including the discharge line from the processor to the disposal field.
- Tank Insulation: After concrete tanks have been installed and water testing is completed, contractor shall insulate the top and sides of the processor tank below frost depth (4-feet minimum) down the sides of the tank with 2" rigid foam (blue) board insulation and then complete backfilling. Contractor is also responsible for installing insulation over the top of the foramen from the SeptiTech system to the disposal field if not buried below frost level in order to prevent freezing. The Contractor is also responsible for installing insulation over the top of the return line from the processor tank back to the septic tank in order to prevent freezing.
- Electrical: All electrical work is the responsibility of the contractor's licensed electrician and is not provided by SeptiTech. SeptiTech processors can also be built to 3-phase power requirements. If 3-phase is required, please notify SeptiTech at the time of contract signing.



CRUSHED STONE INFILTRATION TRENCH CALCULATIONS:
 * INFILTRATION AREA TO BE FOR THE PROPOSED DWELLING
 * TOTAL IMPERVIOUS AREA = 1,120 S.F.
 * INFILTRATION TRENCH CALCULATION PER RHODE ISLAND STORMWATER PROCESSOR GUIDANCE DOCUMENT FOR INDIVIDUAL SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT - TABLES 10 AND 11: SIZING GUIDANCE FOR INFILTRATION TRENCHES
 TOTAL DEPTH = 48 INCHES
 SOIL TYPE: SANDY SOILS = 0.08 SIZING FACTOR
 1,120 S.F. AREA x 0.08 = 90.5 S.F.
 * BOTTOM AREA OF PROPOSED INFILTRATION AREA = 70 S.F.

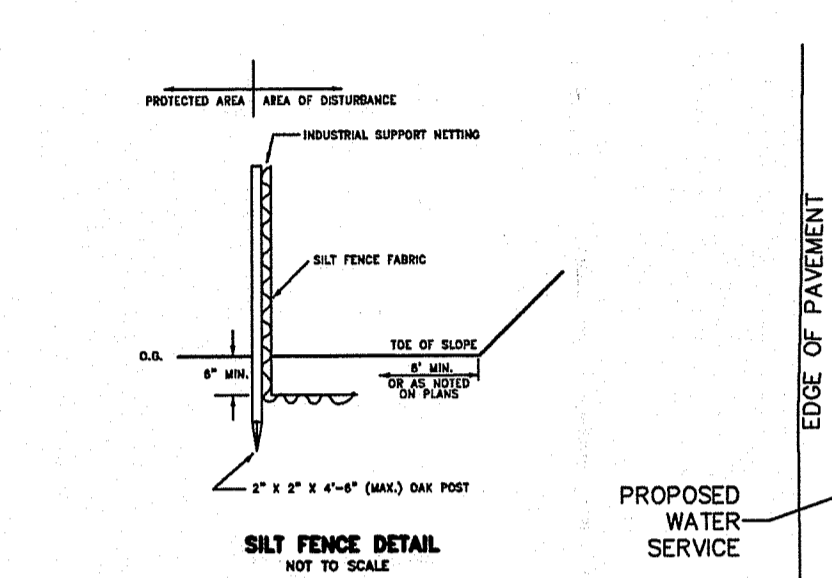
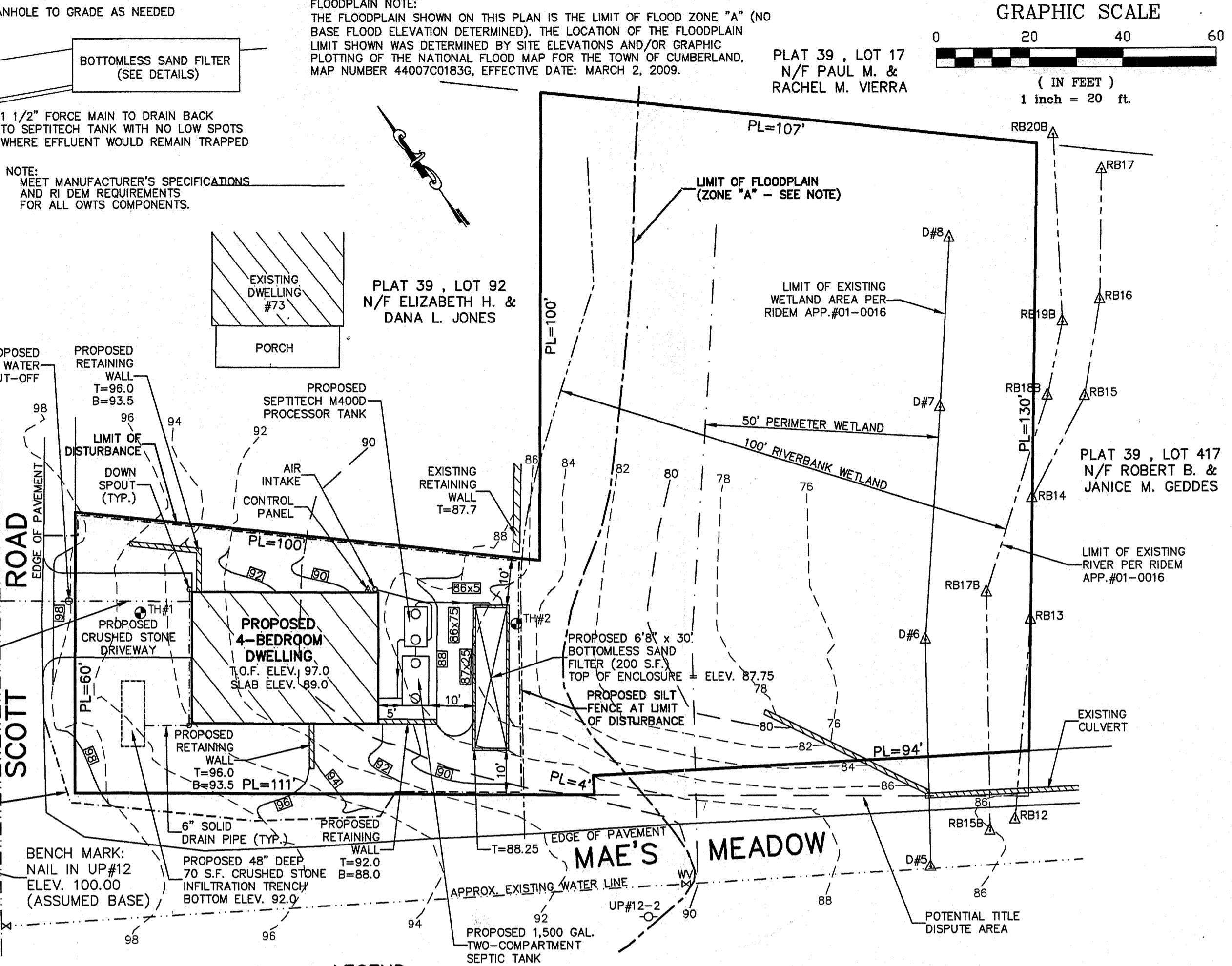
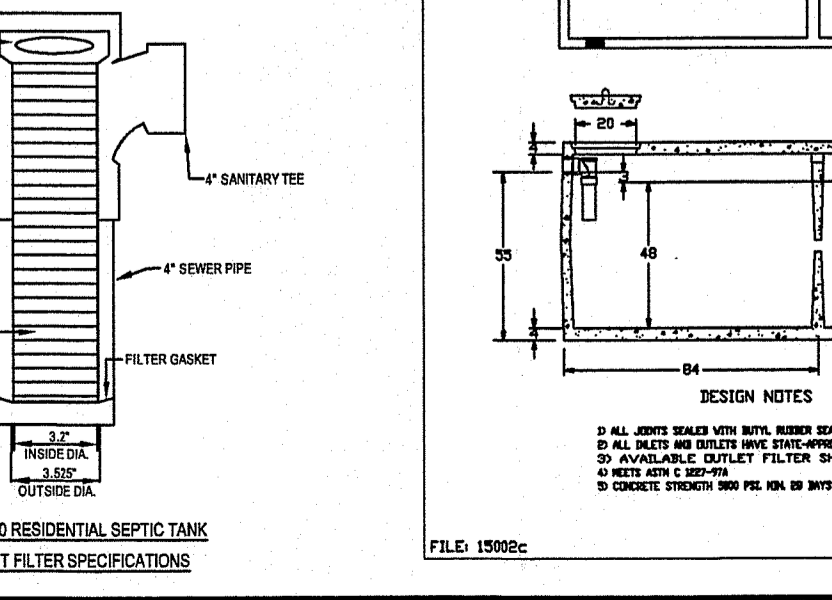
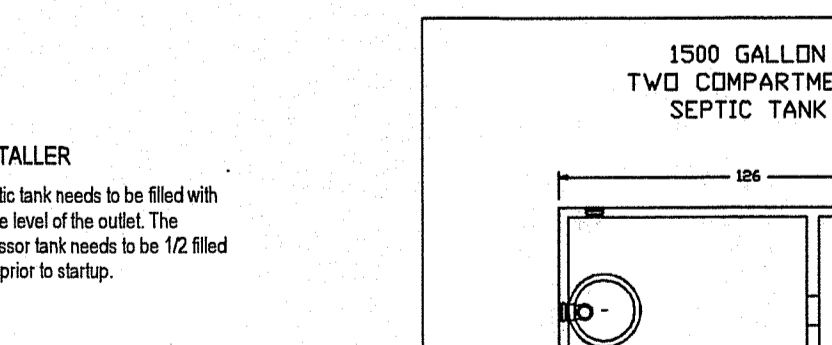
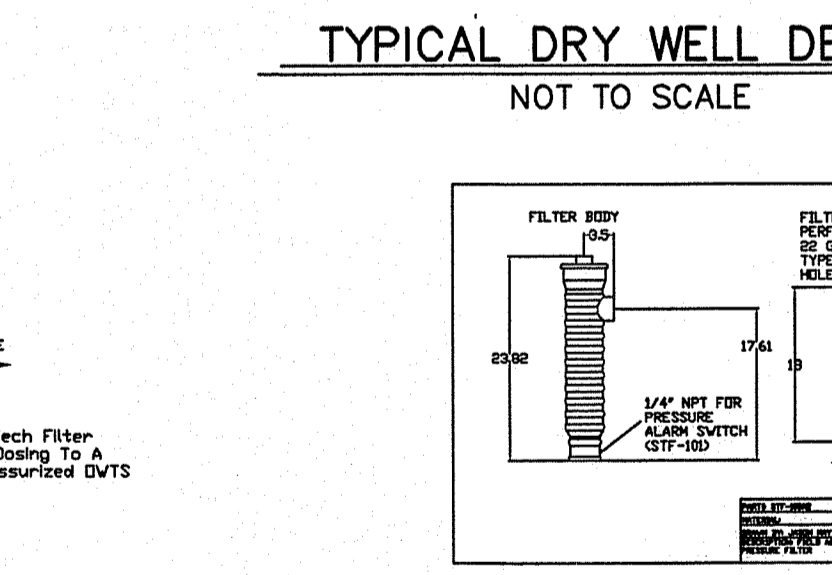
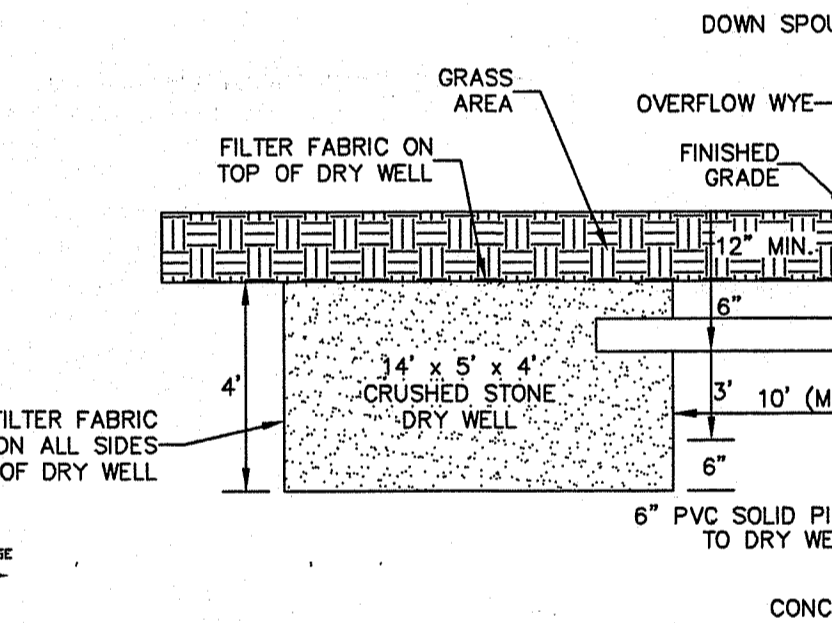


TABLE OF ELEVATIONS:

GROUND AT TH#1	95.0
WATER TABLE AT TH#1	85.0
GROUND AT TH#2	85.0
WATER TABLE AT TH#2	75.0
INV. OUT HOUSE	87.10
SEPTIC TANK ELEVATIONS:	
INV. IN SEPTIC TANK	87.00
TOP OF SEPTIC TANK RISER	86.75
SEPTITECH M-4000 ELEVATIONS:	
INV. IN SEPTITECH	86.65
TOP OF SEPTITECH TANK RISER	88.75
BOTTOMLESS SAND FILTER ELEVATIONS:	
SAND/PEA STONE INTERFACE	87.00
INV. ELEVATION OF LATERALS	87.25
TOP OF PEA STONE	87.75
FINISH GRADE AROUND B.S.F.	87.25 TO 85.75

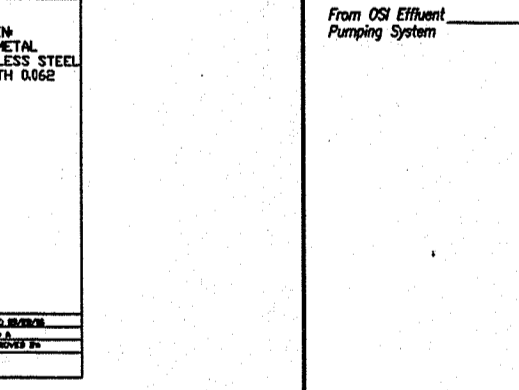
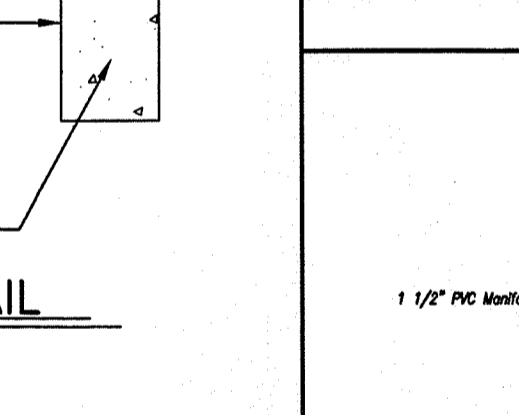


LEGEND

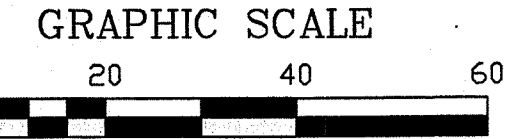
PL	PROPERTY LINE
S.F.	SQUARE FEET
ELEV.	ELEVATION
APP.	APPLICATION
WSO	WATER SHUT-OFF
WV	WATER VALVE
UP	UTILITY POLE
O.W.T.S.	ON-SITE WASTEWATER TREATMENT SYSTEM
D#	WETLAND FLAG
T	TOP

TEST HOLE DATA:
 DATE DUG - 2-11-03
 TEST HOLE - TH#2
 PERFORMED BY: SUSAN B. CAPASSO
 WATER TABLE DEPTH = 10' FROM D.G.

REQUIRED CAPACITY OF LEACHING SYSTEM:
 4 BEDROOMS x 115 GALLONS PER BEDROOM = 460 GALLONS PER DAY
 DESIGN RATE: 2.3 GAL/SF/DAY (CATEGORY 1 SOIL)
 BOTTOMLESS SAND FILTER SIZE REQUIRED: 200 SQUARE FEET
 BOTTOMLESS SAND FILTER SIZE PROPOSED: 200 SQUARE FEET



NOTE:
 NO PRESSURE TREATED TIMBERS ARE TO BE USED BELOW FINISH GRADE.
 ALL OTHER ORIFICES SHALL BE DRILLED POINTING DOWN (6 O'CLOCK). THE UP-POINTING ORIFICES SHALL BE LOCATED 1/3 AND 2/3, RESPECTIVELY, ALONG THE LENGTH OF EACH LATERAL. ORIFICE SHIELDS SHALL BE PLACED OVER EACH ORIFICE (ABOVE OR BELOW THE LATERAL, AS REQUIRED).
 BOTTOMLESS SAND FILTER MEDIA SPECIFICATIONS:
 A) BSF MEDIA: BSF FILTER MEDIA SPECIFICATIONS ARE PRESENTED IN FIGURE 14, WHICH IS SHOWN IN THE ATTACHED REPORT. ALL MEDIA WITHIN THE ENCLOSURE AND BELOW THE COVER STONE SHALL HAVE AN EFFECTIVE SIZE (D₆₀) OF 0.33 MM (60) TO 4.0. THE MAXIMUM ALLOWABLE PERCENTAGE OF FINES PASSING THROUGH A NUMBER 200 SIEVE SHALL BE 1% OTHER THAN THE GRADATION AND FINE CONTENT SPECIFIED ABOVE. THE SAND MEDIA SHALL MEET THE OTHER ASTM C-33 SAND SPECIFICATIONS.
 B) SAND QUALITY: IT IS IMPORTANT TO REMEMBER THAT USING GOOD QUALITY SAND MEDIA IS ESSENTIAL. NOT ALL SAND AND GRAVEL OPERATIONS WILL HAVE THE ABILITY TO PRODUCE SAND WITH THE ABOVE SPECIFICATIONS. A SIEVE ANALYSIS OF THE SAND MEDIA TO BE USED SHOULD BE CONDUCTED TO ASSURE THAT ITS EFFECTIVE SIZE AND UNIFORMITY COEFFICIENT ARE APPROPRIATE. WHEN SAMPLING THE STOCK PILE OF SAND MEDIA, SAMPLES SHOULD BE TAKEN FROM SEVERAL LOCATIONS WITHIN THE PILE TO ASSURE A REPRESENTATIVE SAMPLE FOR ANALYSIS. A RECENT SIEVE ANALYSIS (MAXIMUM 30 DAYS OLD FROM PICK UP DATE) PRODUCED BY THE SAND MANUFACTURER IS SATISFACTORY AS LONG AS IT ADHERES TO THESE REQUIREMENTS. THE INSTALLER SHOULD SECURE A COPY OF THIS FOR FILING PURPOSES. OLDER SIEVE ANALYSES MAY NOT ACCURATELY REFLECT THE SPECIFICATIONS OF THE EXISTING SAND STOCKPILED AT A MANUFACTURER'S FACILITY. THE STANDARD METHOD TO BE USED FOR PERFORMING PARTICLE SIZE ANALYSIS SHOULD COMPLY WITH ONE OF THE FOLLOWING:
 1) THE SIEVE METHOD SPECIFIED IN ASTM D-136 AND ASTM C-117.
 2) THE METHOD SPECIFIED IN SOIL SURVEY LABORATORY METHODS AND PROCEDURES FOR COLLECTING SOIL SAMPLES, SOIL SURVEY INVESTIGATION REPORT #1, US DEPARTMENT FOR AGRICULTURE, (2004 OR LATER EDITION).



PLAT 39, LOT 17
 N/F PAUL M. & RACHEL M. VERRA

PLAT 39, LOT 417
 N/F ROBERT B. & JANICE M. GEDDES

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PROPOSED O.W.T.S. PLAN FOR
PAULA MALLOY
 PLAT 39, LOT 92
 71 SCOTT ROAD
 CUMBERLAND, RHODE ISLAND

SCALE: 1" = 20'
 REVISED: NOV. 12, 2020
 DRAWN BY: S.A.K.

DRAWING NO: 2020_030
 SHEET NO: 1 OF 1