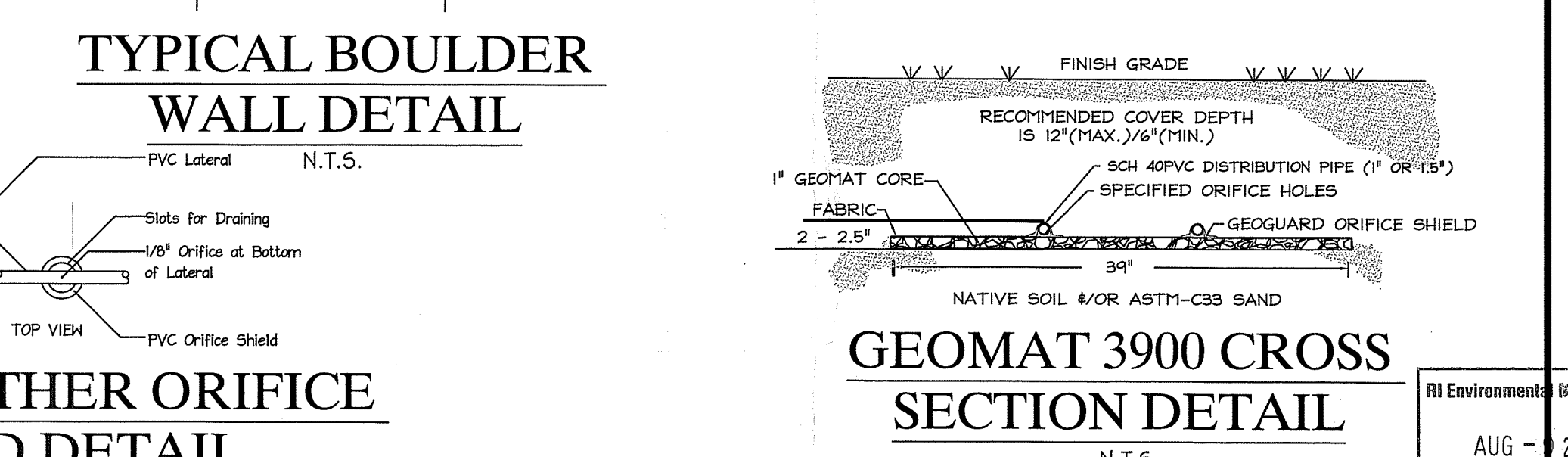
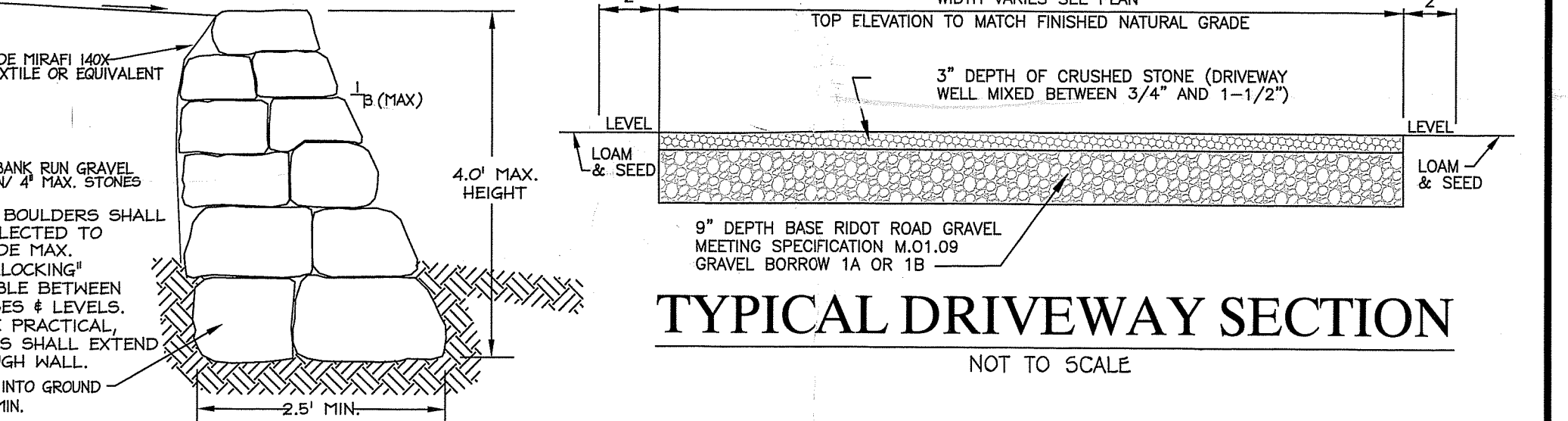
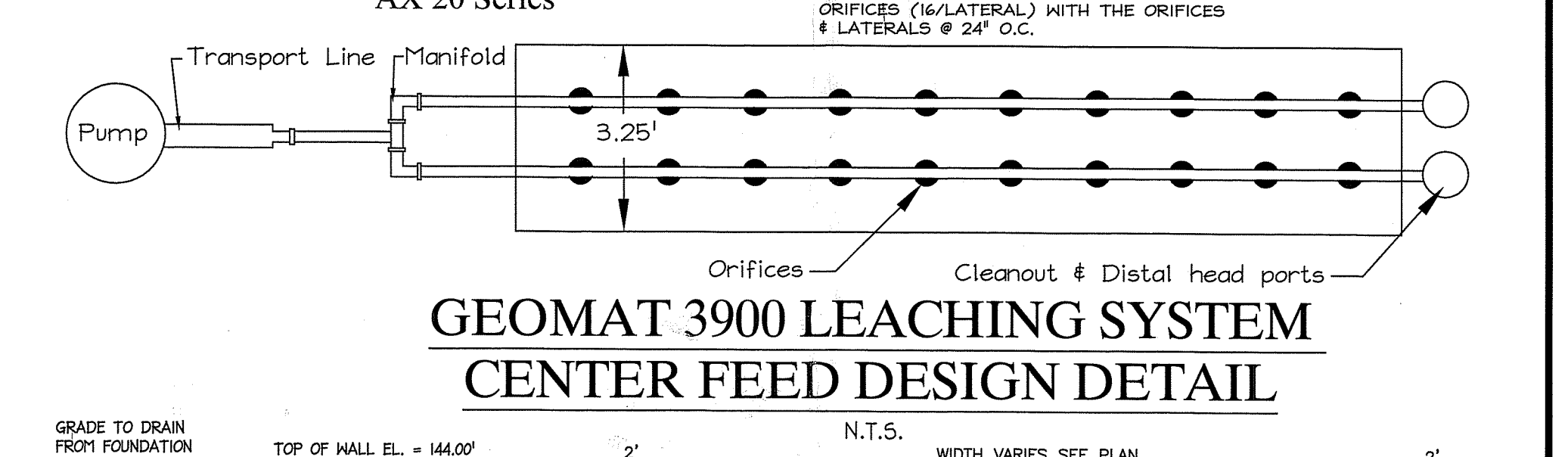
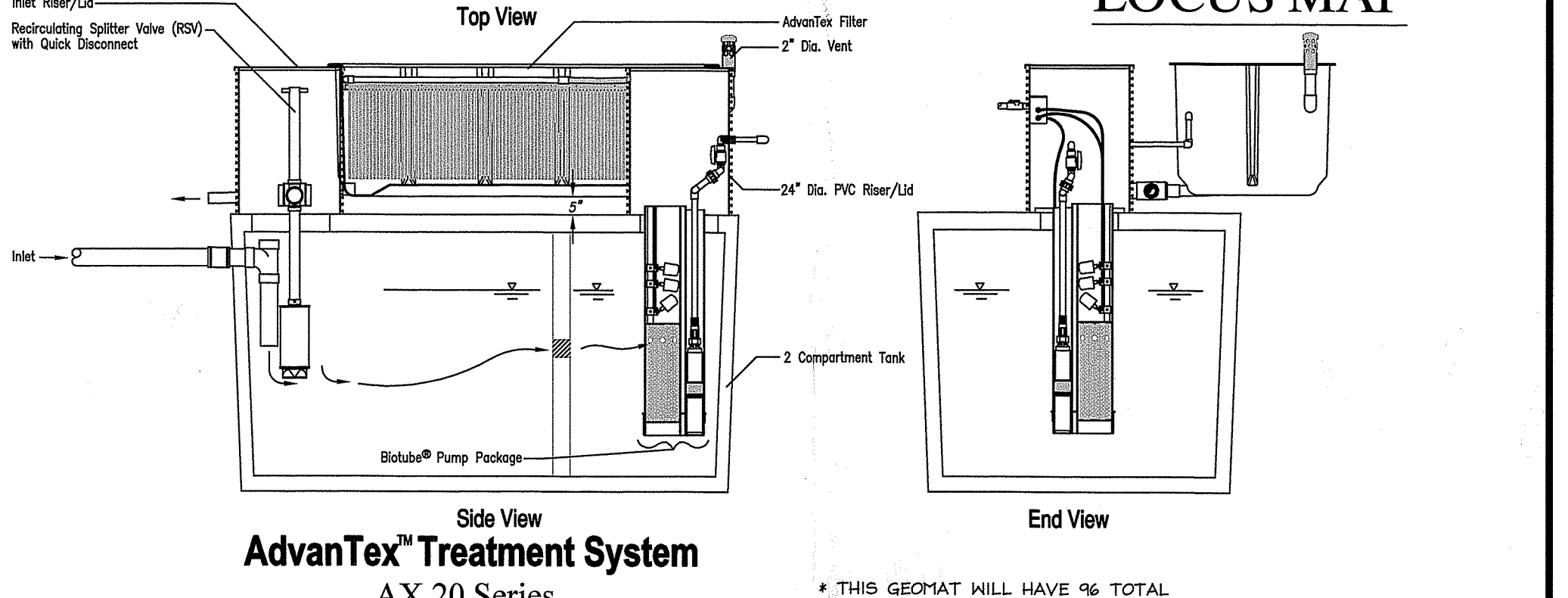
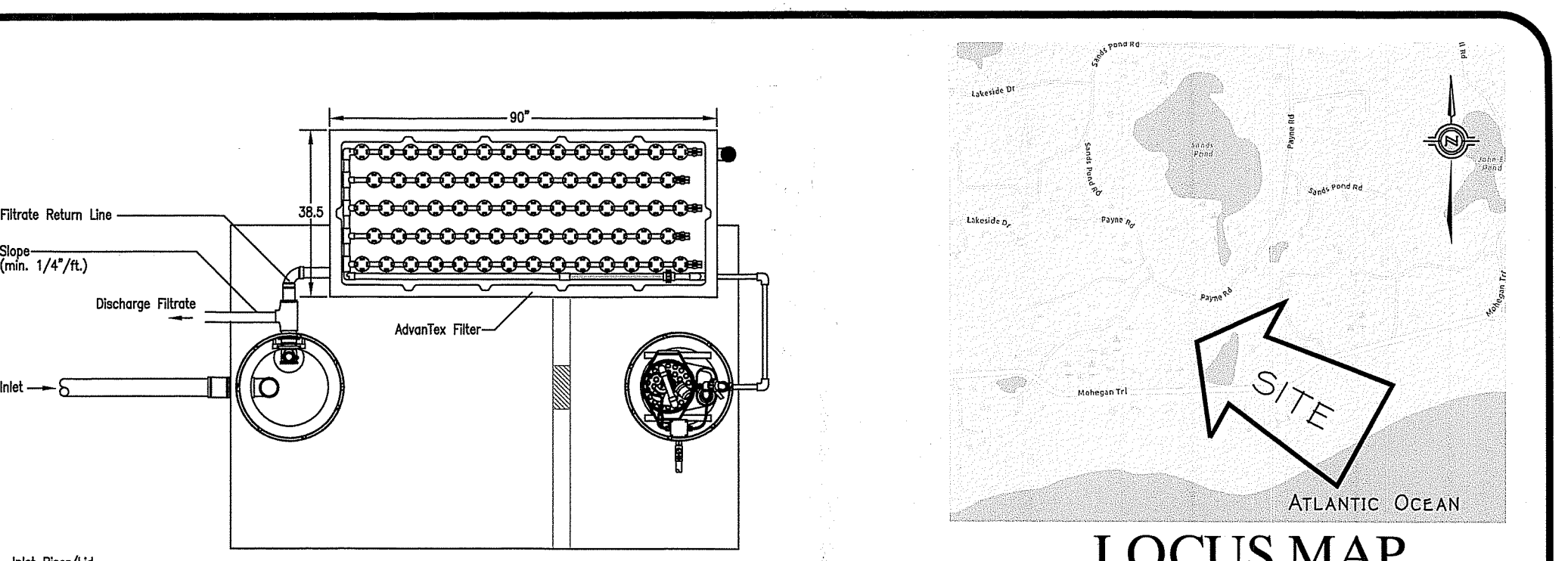
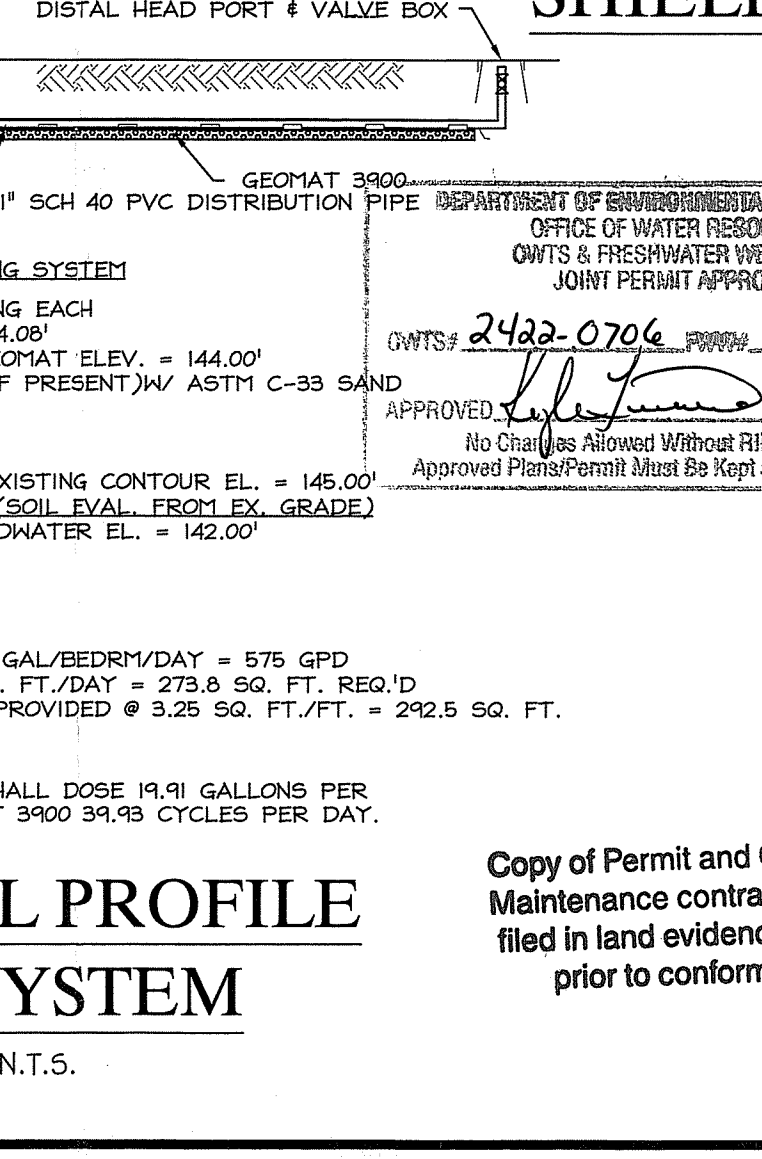
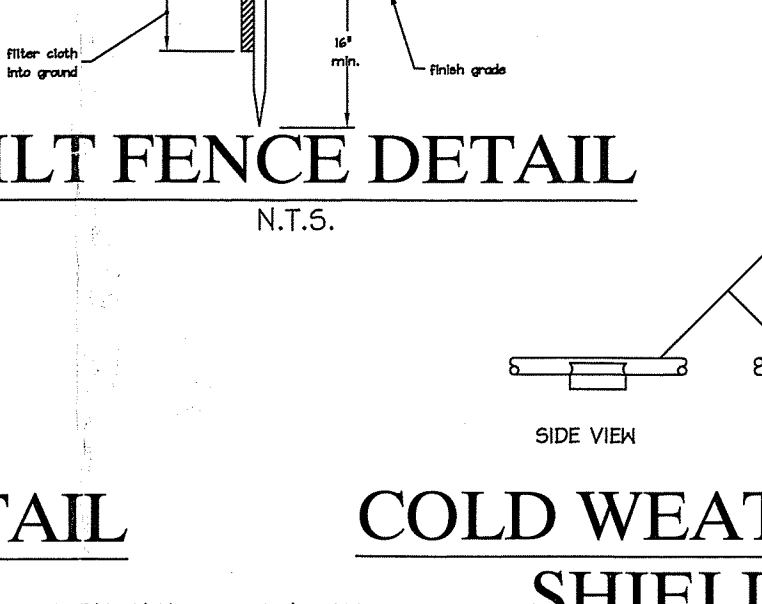
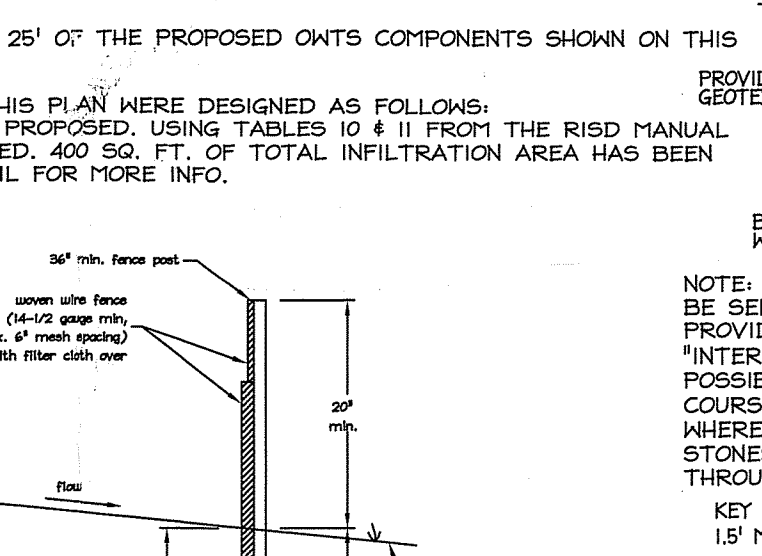
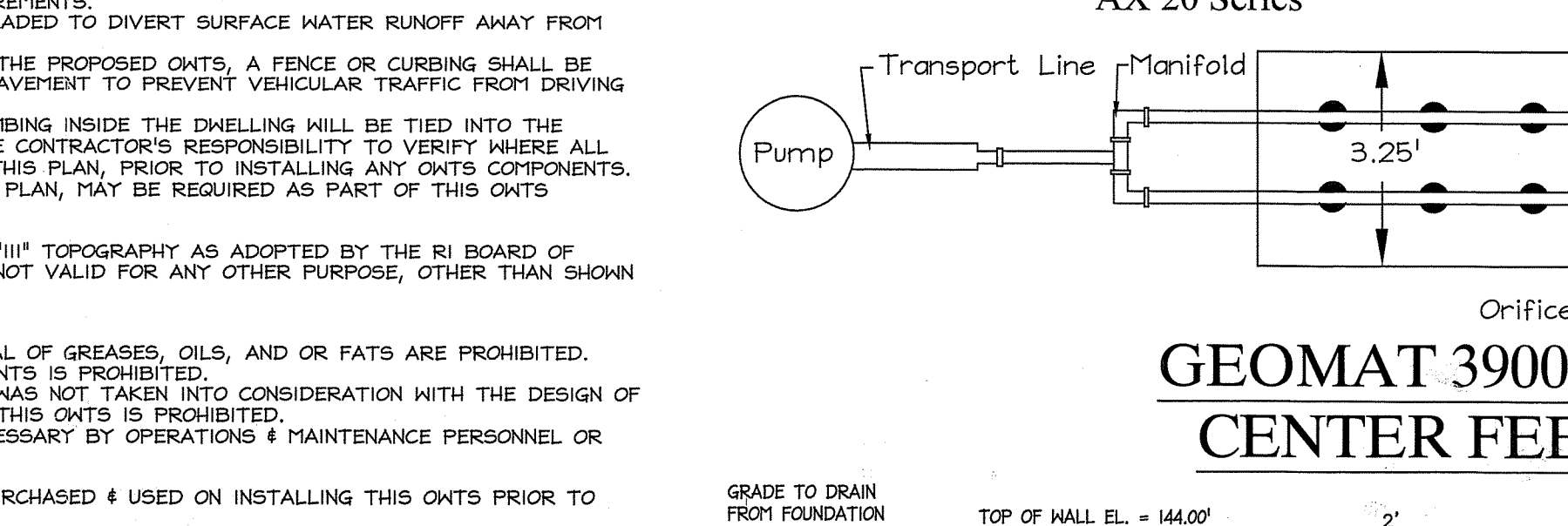
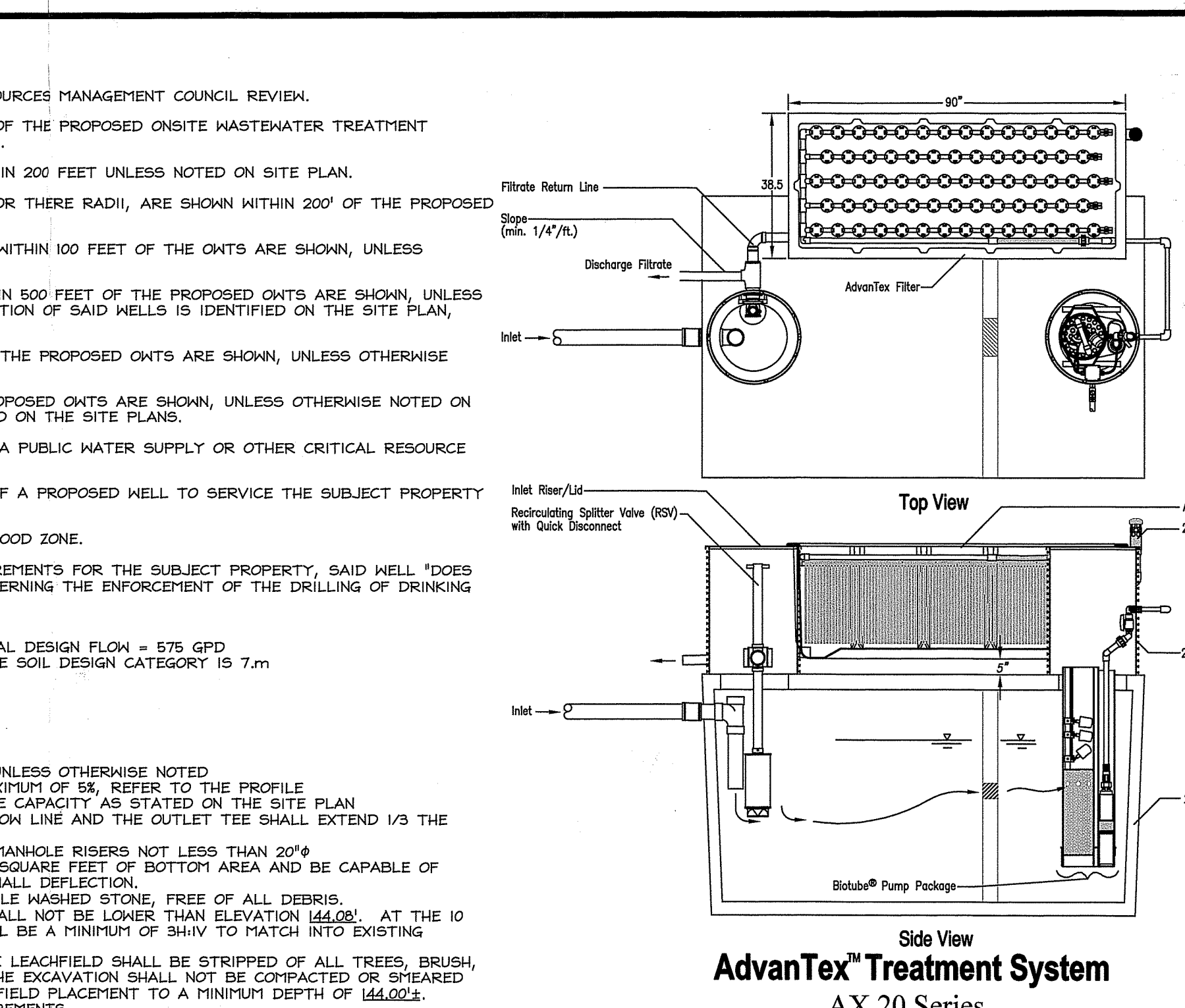
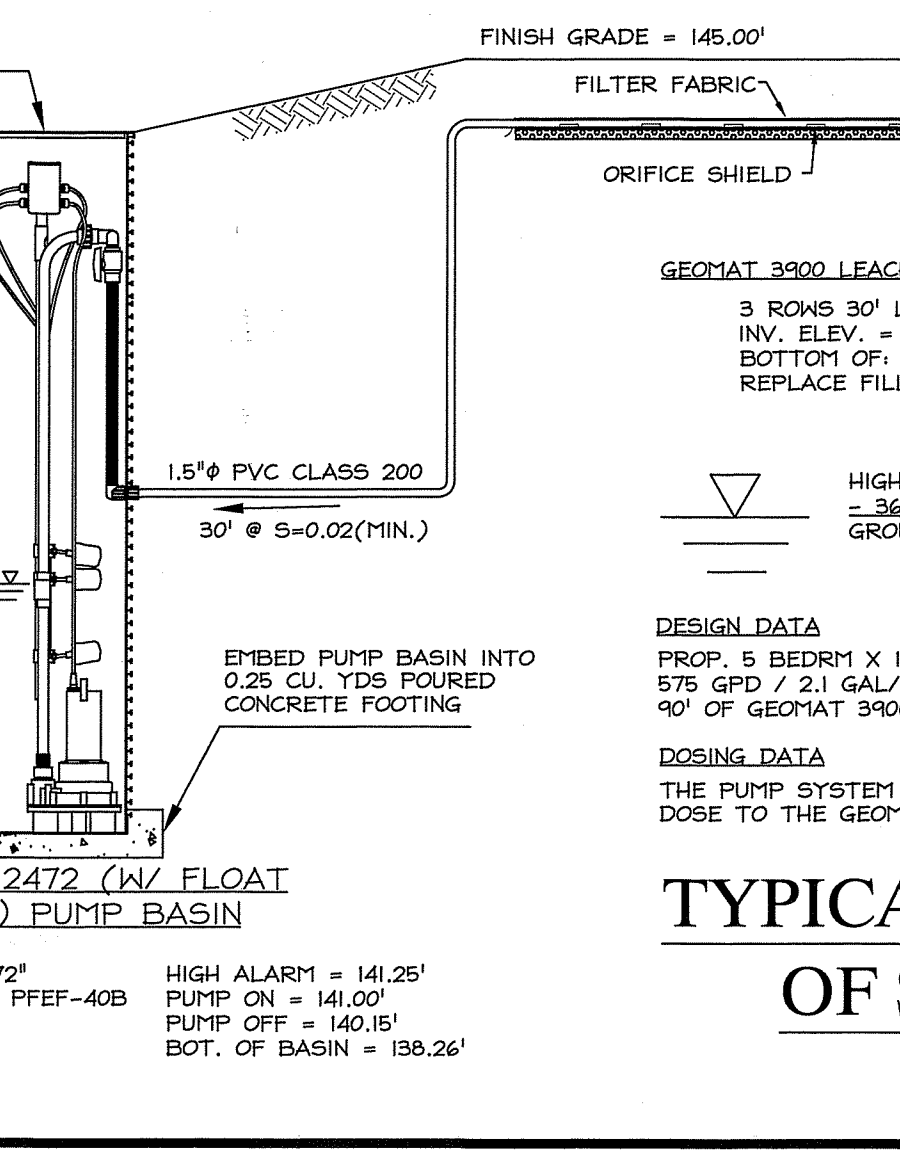
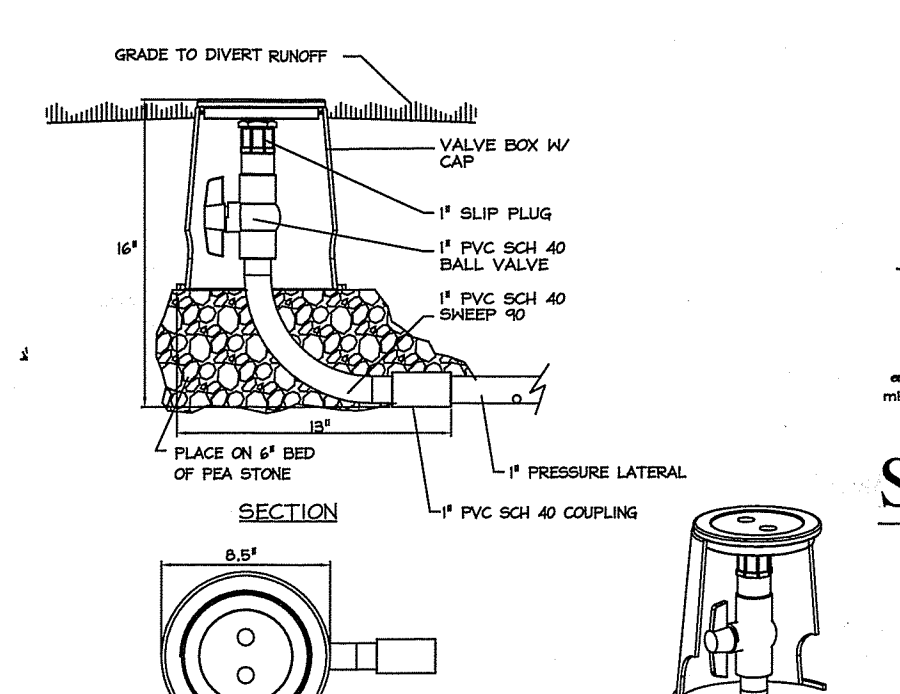


OWTS GENERAL NOTES:

1. THE PROPERTY "IS NOT" SUBJECT TO RHODE ISLAND COASTAL RESOURCES MANAGEMENT COUNCIL REVIEW.
2. ALL PRIVATE AND PUBLIC DRINKING WATER LINES WITHIN 50 FEET OF THE PROPOSED ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) ARE SHOWN, UNLESS OTHERWISE NOTED ON SITE PLAN.
3. THERE ARE NO PUBLIC SEWERS AVAILABLE TO THE PROPERTY WITHIN 200 FEET UNLESS NOTED ON SITE PLAN.
4. ALL EXISTING AND PROPOSED PRIVATE DRINKING WATER WELLS, 6" OR THERE RADI, ARE SHOWN WITHIN 200' OF THE PROPOSED OWTS COMPONENTS SHOWN ON THIS PLAN.
5. ALL EXISTING AND PROPOSED WELLS SERVING NON-POTABLE USES WITHIN 100 FEET OF THE OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON THE SITE PLAN.
6. ALL EXISTING AND PROPOSED PUBLIC DRINKING WATER WELLS WITHIN 500 FEET OF THE PROPOSED OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON THE SITE PLAN. THE CONSTRUCTION DETERMINATION OF SAID WELLS IS IDENTIFIED ON THE SITE PLAN, UNLESS OTHERWISE NOTED.
7. ALL WATERCOURSES, WETLANDS, AND DRAINS WITHIN 200 FEET OF THE PROPOSED OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON SITE PLAN.
8. ALL STORM AND SUBSURFACE DRAINS WITHIN 200 FEET OF THE PROPOSED OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON SITE PLAN. THE ULTIMATE DISCHARGE OF SAID DRAINS ARE IDENTIFIED ON THE SITE PLANS.
9. THE OWTS "IS" LOCATED WITHIN THE SAND'S POND WATERSHED OF A PUBLIC WATER SUPPLY OR OTHER CRITICAL RESOURCE AREA.
10. ALL EXISTING OWTS ON ADJUTING PROPERTIES WITHIN 200 FEET OF A PROPOSED WELL TO SERVICE THE SUBJECT PROPERTY ARE IDENTIFIED ON THE SITE PLAN, UNLESS OTHERWISE NOTED.
11. THE SUBJECT PROPERTY IS NOT LOCATED WITHIN AN IDENTIFIED FLOOD ZONE.
12. IF A PROPOSED WELL IS REQUIRED TO SERVICE THE WATER REQUIREMENTS FOR THE SUBJECT PROPERTY, SAID WELL "DOES NOT" REQUIRE A VARIANCE FROM RIDGHS RULES AND REGULATIONS GOVERNING THE ENFORCEMENT OF THE DRILLING OF DRINKING WATER WELLS.
13. OWTS DESIGN DATA:
 - 5 BEDROOM - 115 GALLONS PER BEDROOM - TOTAL DESIGN FLOW = 575 GPD
 - BASED ON THE SOIL EVALUATION, THE MOST RESTRICTIVE SOIL DESIGN CATEGORY IS 7.M
 - THE SOIL APPLICATION RATE = 2.1 GAL/50 FT²/DAY
 - TOTAL REQUIRED LEACHING AREA = 273.9 SQUARE FEET
 - TOTAL PROVIDED LEACHING AREA = 292.5 SQUARE FEET
 - LEACHFIELD: 3 ROWS OF 3.25' W x 30' L GEOMAT 3900.
14. OWTS GENERAL CONSTRUCTION NOTES:
 - ALL PIPING SHALL BE 4" PVC SCH 40 OR EQUIVALENT, UNLESS OTHERWISE NOTED
 - ALL PIPE SLOPES SHALL BE A MINIMUM OF 1% AND A MAXIMUM OF 5%, REFER TO THE PROFILE
 - THE SEPTIC TANK SHALL BE A CONCRETE TANK WITH THE CAPACITY AS STATED ON THE SITE PLAN
 - THE SEPTIC TANK INLET SHALL EXTEND 1' BELOW THE FLOW LINE AND THE OUTLET TEE SHALL EXTEND 1/3 THE DEPTH BELOW THE FLOW LINE.
 - THE SEPTIC TANK SHALL BE FITTED WITH TWO ACCESS MANHOLE RISERS NOT LESS THAN 20" IN THE D-BOX, IF REQUIRED, SHALL HAVE A MINIMUM OF 3 SQUARE FEET OF BOTTOM AREA AND BE CAPABLE OF CARRYING A MINIMUM 300 PSF LOAD WITH MINIMAL SIDEWALL DEFLECTION.
 - LEACHFIELD STONE, IF USED, SHALL BE 3/4" TO 2" DOUBLE WASHED STONE, FREE OF ALL DEBRIS.
 - SURFACE GRADES WITHIN 5 FEET OF THE LEACHFIELD SHALL NOT BE LOWER THAN ELEVATION 144.00'. AT THE 10 FEET DISTANCE FROM THE LEACHFIELD, THE SLOPE SHALL BE A MINIMUM OF 3/4" TO MATCH INTO EXISTING GRADES.
 - THE LEACHFIELD AND THE AREA WITHIN 10 FEET FOR THE LEACHFIELD SHALL BE STRIPPED OF ALL TREES, BRUSH, STUMPS AND BOULDERS. THE SIDES AND BOTTOM OF THE EXCAVATION SHALL NOT BE COMPACTED OR SHEARED AND THE BOTTOM SHALL BE SCARIFIED PRIOR TO LEACHFIELD PLACEMENT TO A MINIMUM DEPTH OF 144.00'.
 - REFER TO THE SITE PLAN FOR LEACHFIELD STRIP REQUIREMENTS.
 - THE FINISH GRADE OVER THE SEPTIC TANK SHALL BE GRADED TO DIVERT SURFACE WATER RUNOFF AWAY FROM THE TANK.
 - IF DRIVEWAY OR PAVEMENT IS TO BE LOCATED NEAR THE PROPOSED OWTS, A FENCE OR CURBING SHALL BE INSTALLED AROUND THE SYSTEM IN THE AREA OF THE PAVEMENT TO PREVENT VEHICULAR TRAFFIC FROM DRIVING ONTO THE SYSTEM.
 - CONTRACTOR TO OBSERVE & CONFIRM ALL EXISTING PLUMBING INSIDE THE DWELLING WILL BE TIED INTO THE PROPOSED SEPTIC TANK SHOWN ON THIS PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY WHERE ALL EXISTING PLUMBING EXISTS THE BUILDING(S), SHOWN ON THIS PLAN, PRIOR TO INSTALLING ANY OWTS COMPONENTS. NEW PLUMBING, INSIDE THE BUILDING(S), SHOWN ON THIS PLAN, MAY BE REQUIRED AS PART OF THIS OWTS INSTALLATION.
15. THIS PLAN CONFORMS TO A CLASS "III" PROPERTY LINE & A CLASS "III" TOPOGRAPHY AS ADOPTED BY THE RI BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS SURVEY IS NOT VALID FOR ANY OTHER PURPOSE, OTHER THAN SHOWN ON THIS PLAN, WITHOUT WRITTEN CONSENT.
16. GENERAL OWNER NOTES:
 - FOOD/GARBAGE GRINDERS INSIDE DWELLING AND DISPOSAL OF GREASES, OILS, AND OR FATS ARE PROHIBITED.
 - VEHICLE PARKING OR TRAFFIC FOR THE OWTS IS PROHIBITED.
 - BACKWASH WATER FROM A WATER TREATMENT SYSTEM WAS NOT TAKEN INTO CONSIDERATION WITH THE DESIGN OF THIS OWTS. WATER TREATMENT SYSTEM DISCHARGE TO THIS OWTS IS PROHIBITED.
 - THE SEPTIC TANK SHALL BE PUMPED WHEN DEEMED NECESSARY BY OPERATIONS & MAINTENANCE PERSONNEL OR LICENSED SEPTIC INSPECTOR.
17. INSTALLER TO PROVIDE DESIGNER W/ ALL COPIES OF MATERIALS PURCHASED & USED ON INSTALLING THIS OWTS PRIOR TO ISSUANCE OF CERTIFICATE OF CONSTRUCTION.
18. THERE ARE NO EXISTING OR PROPOSED SUBSURFACE DRAINS WITHIN 25' OF THE PROPOSED OWTS COMPONENTS SHOWN ON THIS PLAN.
19. THE PROPOSED STORMWATER MANAGEMENT PRACTICES SHOWN ON THIS PLAN WERE DESIGNED AS FOLLOWS:
 - RAIN GARDEN DESIGN DATA - MAXIMUM OF 2,800 SQ. FT. OF ROOFLINE PROPOSED, USING TABLES 10 & 11 FROM THE RISD MANUAL & DESIGNING ON SANDY SOILS, 392 SQ. FT. OF RAIN GARDEN IS REQUIRED, 400 SQ. FT. OF TOTAL INFILTRATION AREA HAS BEEN PROVIDED WITH THE 3 RAIN GARDENS SHOWN ON THIS PLAN. SEE DETAIL FOR MORE INFO.



LEGEND

GRANITE BOUND	GRANITE BOUND
DRILLHOLE FOUND	DRILLHOLE FOUND
IRON ROD CAP FOUND	IRON ROD CAP FOUND
UTILITY POLE	UTILITY POLE
WATER SHUTOFF	WATER SHUTOFF
SEPTIC TANK LID	SEPTIC TANK LID
WELL	WELL
STONE WALL	STONE WALL
PROPERTY LINE	PROPERTY LINE
APPROX. PROPERTY LINE	APPROX. PROPERTY LINE
PROP. SILT FENCE	PROP. SILT FENCE
CONTOUR (NAVD 1988 DATUM)	CONTOUR (NAVD 1988 DATUM)
EXISTING WATERLINE	EXISTING WATERLINE
EXISTING ELECTRICAL	EXISTING ELECTRICAL
EXISTING TREELINE	EXISTING TREELINE
SOIL EVALUATION	SOIL EVALUATION
PROPOSED WATERLINE	PROPOSED WATERLINE
PROPOSED DRAINLINE	PROPOSED DRAINLINE
PROPOSED CONTOUR	PROPOSED CONTOUR
PROPOSED COMM. LINE	PROPOSED COMM. LINE
PROPOSED ELECTRICAL	PROPOSED ELECTRICAL

ONSITE WASTEWATER TREATMENT SYSTEM NEW DESIGN

Prepared For:
WILLIAM MERKLER & SHANNON MACALOON

MARCUS CHANNON
No. 1971
PROFESSIONAL LAND SURVEYOR

ATLAS LAND SURVEYING, LLC
PROPERTY & CONSTRUCTION SURVEYING & MAPPING

177 Burbank Drive ~ Warwick, RI 02886
401-737-4407
WWW.ATLASLANDSURVEYING.COM

REVISION:

DATE: JULY 2024
DRAWN BY: KRC
SCALE: 1" = 40'

SHEET 1 OF 1 SHEETS 1

JOB NO. MERKLER-OWTS
DWG. NO. MERKLER-OWTS

APPROVED: [Signature]
DATE: 7/19/24
No Changes Allowed Without RIDEM Approval
Approved Plans/Permit Must Be Kept at Construction Site

DESIGN DATA:
PROP. 5 BEDRM X 115 GAL/BEDRM/DAY = 575 GPD
575 GPD / 2.1 GAL/50 FT²/DAY = 273.9 SQ. FT. REQ'D
90' OF GEOMAT 3900 PROVIDED @ 3.25 SQ. FT./FT. = 292.5 SQ. FT.

DOSING DATA:
THE PUMP SYSTEM SHALL DOSE 19.91 GALLONS PER DOSE TO THE GEOMAT 3900 @ 39.93 CYCLES PER DAY.

Copy of Permit and Operation/Maintenance contract must be filed in land evidence records prior to conformance.

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