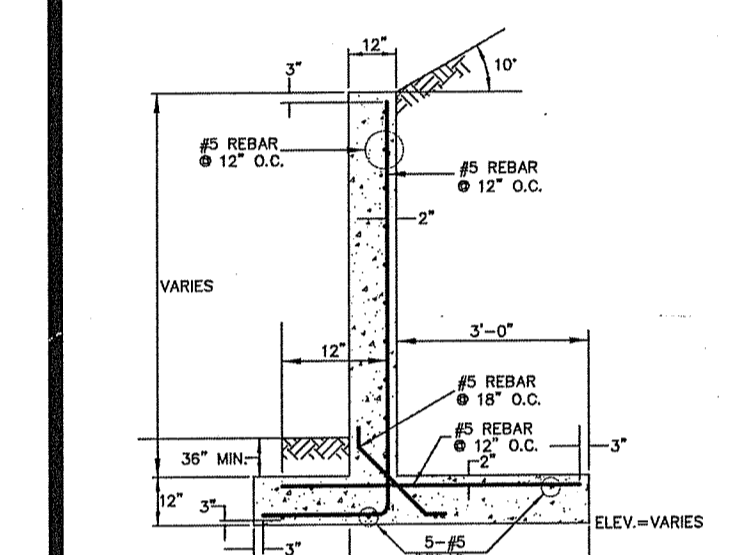


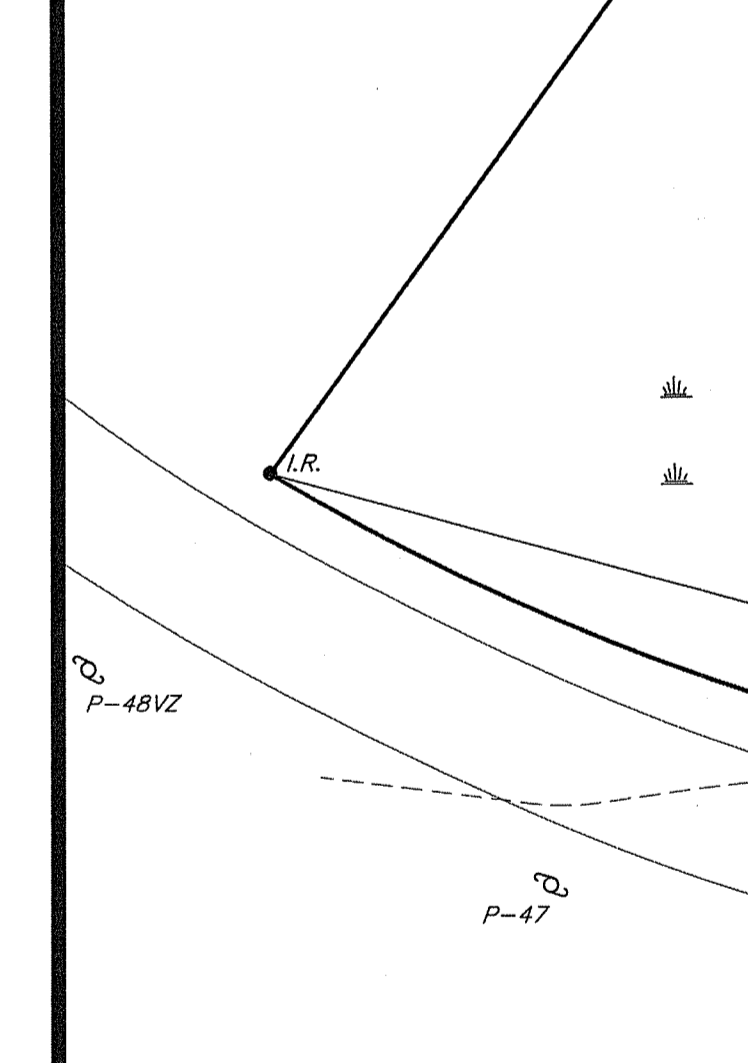
LOCATION MAP
1"=2000'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: APR 11 2025 FILE # 24-0030AP 8 LOT 178
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL N/F
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: APR 11 2025 FILE # 24-0030AP 8 LOT 178
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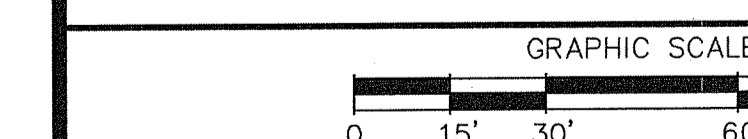


RETAINING WALL DETAIL
NOT TO SCALE
3000# CONCRETE REQUIRED
EXPANSION JOINTS REQUIRED ALONG THE WALL AT 25' INTERVALS



POST-CONSTRUCTION REPLANTING NOTES (PROVIDED BY AVIZNIS ENVIRONMENTAL SERVICES)

- AN EROSION CONTROL LINE WILL BE ESTABLISHED BETWEEN THE REPLANTING AREA AND ANY AREAS DOWNGRADIENT OF THE AREA. THESE CONTROLS SHALL REMAIN IN PLACE THROUGHOUT THE REPLANTING WORK AND SUBSEQUENT RECOVERY/MONITORING PERIOD UNTIL SUCH A POINT THAT THE SITE HAS STABILIZED. THE WETLAND BIOLOGIST SHALL MAKE THE DETERMINATION FOR REMOVAL OF THE CONTROLS.
- EROSION CONTROLS SHALL BE MONITORED FOR EFFICACY THROUGHOUT THE REPLANTING PROCESS.
- THE REPLANTING PROTOCOL SHALL TAKE PLACE AS SOON AS DEM GRANTS APPROVAL OF THIS PLAN BUT NO SOONER THAN 3 DAYS AFTER A 1-INCH RAINFALL AND NOT LESS THAN 3 DAYS FROM A PROTECTED 1-INCH RAINFALL.
- ALL AREAS SHALL BE SUPPLEMENTED, WHERE NECESSARY, WITH 4" OF PLANTABLE SOIL WHERE THE TOP-SOIL IS INADEQUATE FOR PLANTING.
- PLANTINGS IN THE REPLANTING AREA SHALL INCLUDE AN EQUAL COMBINATION OF THE FOLLOWING SHRUB SPECIES. SHRUBS SHALL BE SPACED 3-5 FEET ON CENTER AND 24" - 36" IN HEIGHT AFTER PLANTING:
ARROWWOOD (VIBURNUM DENTATUM)
HIGHLAND BLUEBERRY (VACCINIUM CORYMBOSUM)
WINTERBERRY (ILEX VERTICILLATA)
- AN APPROVED WILDLIFE CONSERVATION GRASS MIX SHALL BE USED IN THE REPLANTING AREA. THE AREAS SHALL BE TOPPED WITH A WEED-FREE LOOSE STRAW MULCH.



LEGEND:

- 40 PROP. CONTOUR
- 40.5 PROP. FIN. GRADE
- 40 EXIST. CONTOUR
- 40.8 EXIST. SPOT GRADE
- VERIFIED TEST HOLE
- PERCOLATION TEST
- PROPERTY LINE
- WATER SERVICE
- STORM DRAIN

PERCOLATION TEST DATA				
PERC. NO.	DATE	DEPTH	ELEV.	RATE
N/A				

SOIL TEST DATA				
DEEP TEST PIT NO. 1	07/28/22	DEEP TEST PIT NO. 2	07/28/22	
SURFACE ELEVATION = 100.9'		SURFACE ELEVATION = 99.0'		
DEPTH/SOIL	SOIL DESCRIPTION	DEPTH/SOIL	SOIL DESCRIPTION	
SEE ATTACHED SOIL EVALUATION		SEE ATTACHED SOIL EVALUATION		
DESIGN APPLICATION RATE: 2.7 GAL/SF/DAY				
DESIGN SOIL CATEGORY: 5				
GROUND WATER @ DEPTH OF 27"		GROUND WATER @ DEPTH OF 26"		
ELEVATION = 98.7' VERIFIED WT=9622-0788		ELEVATION = 96.8' VERIFIED WT=9622-0788		

ZONING CLASSIFICATION = RA

SETBACKS: FRONT-50' SIDE-50' REAR-50'

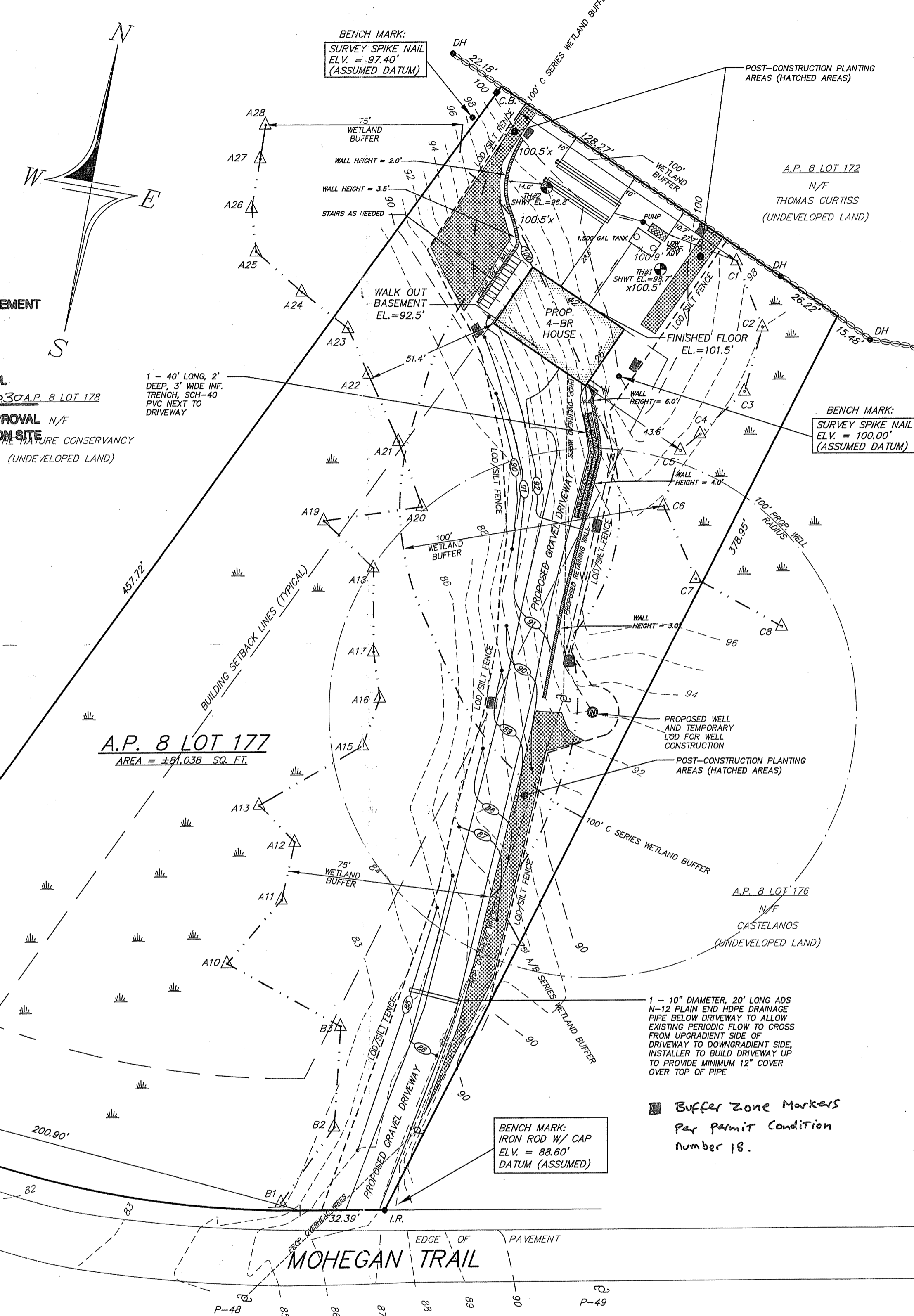
PLAN VIEW OF SYSTEM
SCALE: 1" = 30'

GENERAL NOTES

- ALL OTHER DESIGN, CONSTRUCTION AND MAINTENANCE REQUIREMENTS WHETHER NOTED HEREON, OR NOT, SHALL BE IN CONFORMANCE WITH RULES & REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ON-SITE WASTEWATER TREATMENT SYSTEMS, NOVEMBER, 2018 BY RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, AUTHORITY: CHAPTER 42-35 PURSUANT TO CHAPTERS 42-17.1, 23-19.5 & 6-56.1 OF THE RHODE ISLAND GENERAL.
- MAINTAIN INVERT ELEVATION 99.8' FOR 5' AROUND SYSTEM.
- THE DISTRIBUTION BOX SHALL HAVE A BOTTOM AREA OF 3 SF. AND BE 1/2" LOAD.
- ALL TREES, BRUSH AND STUMPS WITHIN 100 FEET OF LEACH FIELD TO BE REMOVED.
- THERE SHALL BE NO SUBSURFACE FOUNDATION OR STORM DRAINS WITHIN 25 FEET OF THE OWTs.
- COMPLY WITH ANY ADDITIONAL TERMS OF APPROVAL AS MAY BE REQUIRED BY R.I.D.E.M.
- SCHEDULE 35-SDR P.V.C. PIPE OR EQUAL FOR ALL OWT PIPING.
- THE LEACH FIELD AND EXTENDING 6 FEET INTO THE LEACH FIELD PERIMETER FROM THE TRENCH SIDE WALLS MUST BE STRIPPED OF TREES, BRUSH, TOPSOIL, SUBSOIL, UNDESIRABLE MATERIAL AND SOIL CONTAINING FINES AND THE EXCAVATION SOILSIFIED AND BACKFILLED WITH CLEAN, COARSE GRAVEL, (RULE 6.33M).
- BENCHMARK TO BE SET WITHIN 100' OF PROPOSED OWTs LOCATION PRIOR TO CONSTRUCTION.
- THERE ARE NO EXISTING OR PROPOSED WELLS WITHIN 200' OF THE PROPOSED OWTs NOR ARE THERE ANY OTHER OWTs WITHIN 100' OF THE PROPOSED WELL, EXCEPT AS NOTED.
- ALL PIPING TO CONSIST OF POLYVINYL CHLORIDE PIPE (P.V.C.) SCHEDULE 35-SDR, UNLESS OTHERWISE NOTED.
- HEAVY MACHINERY SHALL NOT BE PERMITTED TO PASS OVER THE LEACH FIELD.
- FOR PROPER PERFORMANCE, THE PRE-TREATMENT SYSTEM SHOULD BE INSPECTED AT LEAST TWICE A YEAR AND WHEN TOTAL DEPTH OF SCUM AND SOLIDS EXCEED 1/2" OF THE DEPTH OF THE SEPTIC TANK, THE TANK SHOULD BE PUMPED.
- THE DESIGNER WILL NOT BE RESPONSIBLE FOR THE PERFORMANCE OF THIS SYSTEM UNLESS CONSTRUCTED AS SHOWN. ANY OTHER ALTERATIONS MUST BE APPROVED BY THE DESIGNER.
- PROPERTY LINES: UNLESS OTHERWISE INDICATED THE PROPERTY LINES SHOWN HEREON ARE APPROXIMATE ONLY. THEY HAVE BEEN DEVELOPED FROM TAX MAPS, PLATS, DEEDS AND OTHER SOURCES OF RECORD. THESE REPRESENTATIONS ARE NOT TO BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY AND ARE SUBJECT TO CHANGES THAT AN ACCURATE SURVEY MAY DISCLOSE.
- THERE ARE NO EXISTING OR PROPOSED PUBLIC WELLS WITHIN 500' OF THE PROPOSED OWTs EXCEPT AS SHOWN.
- THERE ARE NO COASTAL PONDS OR TRIBUTARIES THERETO INCLUDING STORM AND SUBSURFACE DRAINING DIRECTLY DISCHARGING THERETO WITHIN 200' OF PROPOSED OWTs, EXCEPT AS SHOWN.
- SUBJECT PARCEL IS SITUATED IN THE NARROW RIVER CRITICAL ZONATION AREA.
- REPLUMB EXISTING STRUCTURE AS NECESSARY TO MATCH THE INVERTS OF THE PROPOSED OWTs.
- ANY FILL ENCOUNTERED IN THE AREA OF THE PROPOSED LEACHING SHALL BE REMOVED AND REPLACED WITH RUM GRAVEL, MEETING RULE 6.33M.

SURVEY AND FLOOD ZONE NOTE:

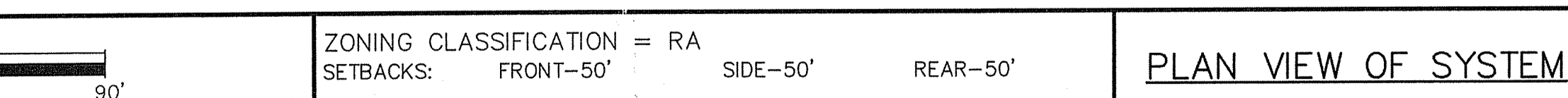
PROPERTY LINE AND TOPOGRAPHICAL INFORMATION PROVIDED BY FLYNN SURVEYS INC, REPRESENTATIONS ON THIS PLAN ARE NOT TO BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY AND ARE SUBJECT TO CHANGES THAT AN ACCURATE SURVEY MAY DISCLOSE.
DEVELOPMENT AREA SHOWN IS NOT LOCATED IN A FLOOD ZONE PER FEMA MAP 44009C0368J EFFECTIVE DATE 10/16/2013



PLAN VIEW:
SCALE: 1" = 30'

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ZONING CLASSIFICATION = RA

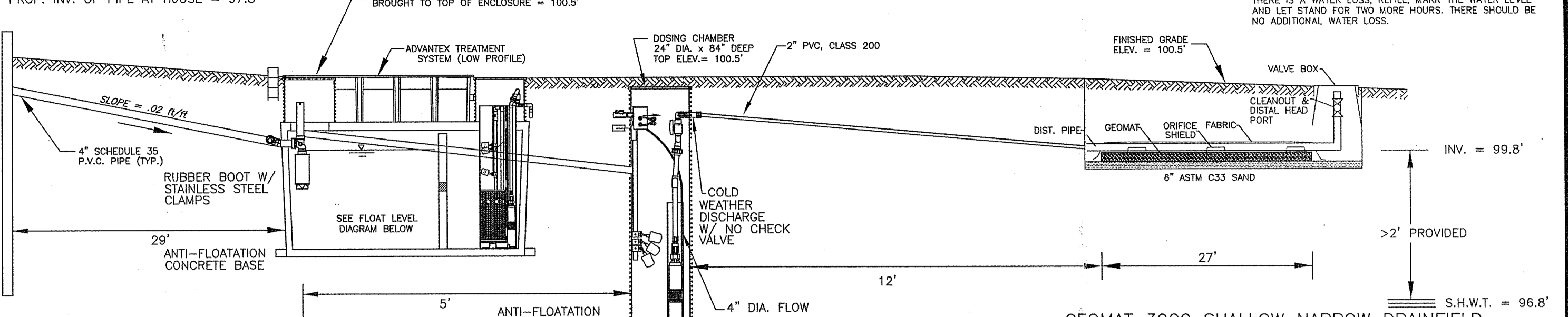
SETBACKS: FRONT-50' SIDE-50' REAR-50'

PLAN VIEW OF SYSTEM
SCALE: 1" = 30'

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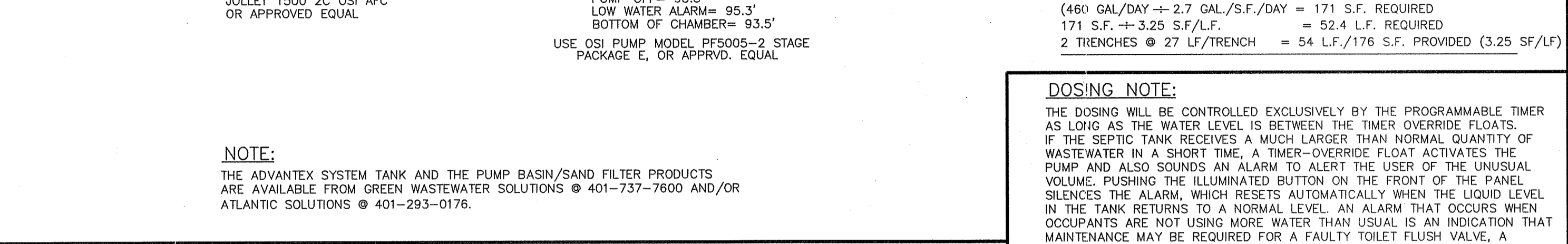
PROFILE OF SYSTEM
(NOT TO SCALE)



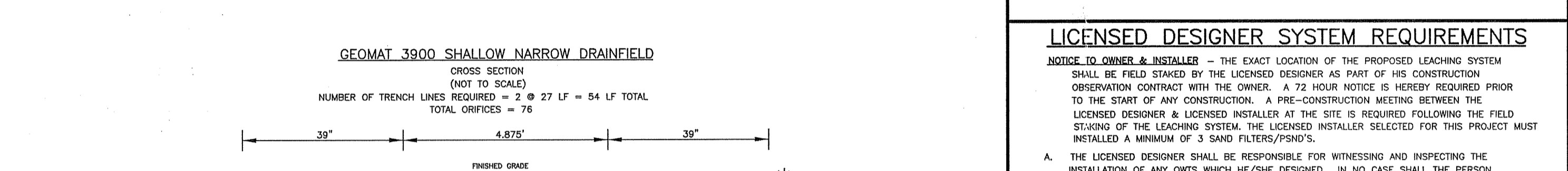
SEPTIC TANK W/ADVANTEX TREATMENT SYSTEM
CAPACITY = 1,500 GALLONS
INV. @ SEPTIC TANK INLET = 97.2'
INV. ABOVE RSV CAGE = 97.5'
JOLLEY 1500 PC OSI AFC OR APPROVED EQUAL

OSI PUMP BASIN
INV. IN FORCE MAIN OUT = 97.3'
TIMER CONTROLLED
HIGH ALARM = 96.9'
PUMP ON = 96.6'
PUMP OFF = 95.5'
LOW WATER ALARM = 95.3'
BOTTOM OF CHAMBER = 93.5'
USE OSI PUMP MODEL PFS005-2 STAGE PACKAGE E, OR APPROV. EQUAL

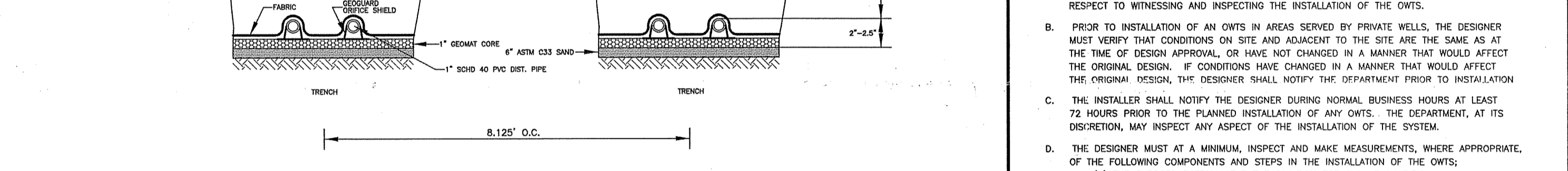
GEOMAT 3900 SHALLOW NARROW DRAINFIELD
CROSS SECTION (NOT TO SCALE)
NUMBER OF TRENCH LINES REQUIRED = 2 @ 27 LF = 54 LF TOTAL
TOTAL ORIFICES = 76



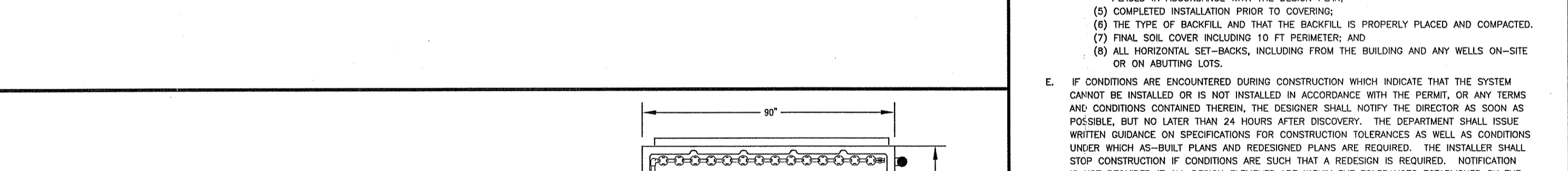
NOTE:
THE ADVANTEX SYSTEM TANK AND THE PUMP BASIN/SAND FILTER PRODUCTS ARE AVAILABLE FROM GREEN WASTEWATER SOLUTIONS @ 401-737-7600 AND/OR ATLANTIC SOLUTIONS @ 401-293-0176.



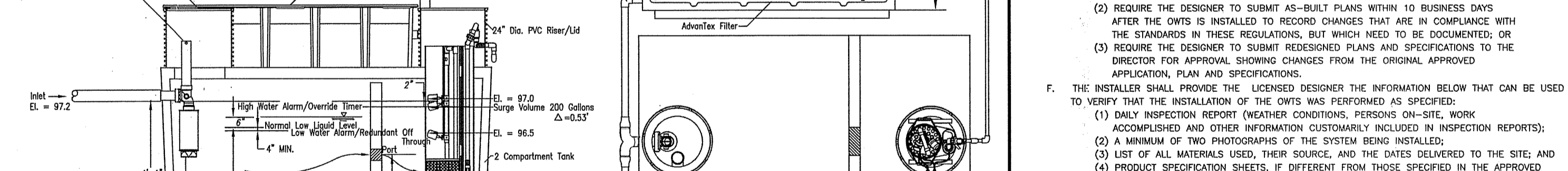
ADVANTEX TREATMENT SYSTEM
AX 20 Series - Mode 3b - Low Profile



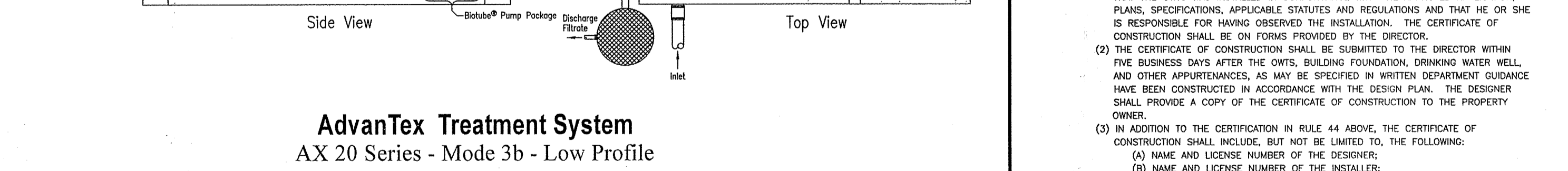
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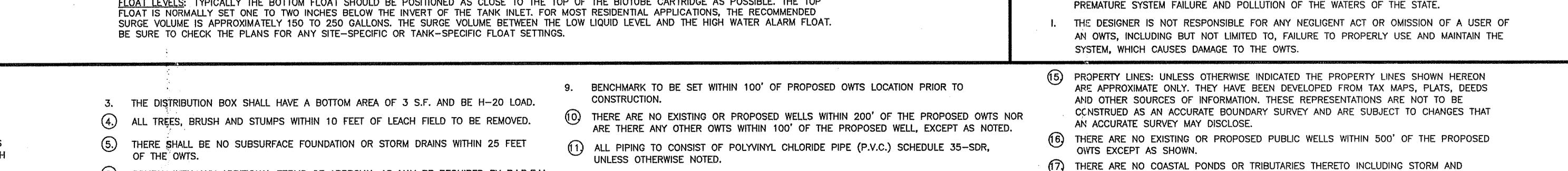
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PROPOSED ON-SITE WASTEWATER TREATMENT SYSTEM
DESIGNED FOR A 4 BEDROOM DWELLING
A.P. 8 LOT 177
SITUATED IN THE TOWN OF NEW SHOREHAM, R.I.
APPLICANT:
JOHN LEONE
PO BOX 129
BLOCK ISLAND, RI 02807

NO.	REVISION	DATE
1.	RIDEM COMMENTS	5/23/24

LICENSED DESIGNER SYSTEM REQUIREMENTS

NOTICE TO OWNER & INSTALLER - THE EXACT LOCATION OF THE PROPOSED LEACHING SYSTEM SHALL BE FIELD STAKED BY THE LICENSED DESIGNER AS PART OF HIS CONSTRUCTION OBSERVATION CONTRACT WITH THE OWNER. A 72 HOUR NOTICE IS HEREBY REQUIRED PRIOR TO THE START OF ANY CONSTRUCTION. A PRE-CONSTRUCTION MEETING BETWEEN THE LICENSED DESIGNER & LICENSED INSTALLER AT THE SITE IS REQUIRED FOLLOWING THE FIELD STAKING OF THE LEACHING SYSTEM. THE LICENSED INSTALLER SELECTED FOR THIS PROJECT MUST BE INSTALLED A MINIMUM OF 3" SAND FILTER/PRODUCT.

- THE LICENSED DESIGNER SHALL BE RESPONSIBLE FOR WITNESSING AND INSPECTING THE INSTALLATION OF ANY OWTs WHICH HE/SHE DESIGNED. IN NO CASE SHALL THE PERSON WITNESSING AND INSPECTING THE INSTALLATION OF THE OWTs BE THE LICENSED INSTALLER WHO INSTALS THE SYSTEM, EXCEPT FOR THE REPAIR OF ANY EXISTING OWTs. ANY PERSON ASSISTING A LICENSED DESIGNER IN WITNESSING AND OBSERVING THE INSTALLATION OF AN OWT MUST BE AN EMPLOYEE OF THE SAME BUSINESS ENTITY AS THE LICENSED DESIGNER, AND SUCH PERSON MUST WORK UNDER THE LICENSED DESIGNER'S DIRECT SUPERVISION IN RESPECT TO WITNESSING AND INSPECTING THE INSTALLATION OF THE OWTs.
- PRIOR TO INSTALLATION OF AN OWTs IN AREAS SERVED BY PRIVATE WELLS, THE DESIGNER MUST VERIFY THAT CONDITIONS ON SITE AND ADJACENT TO THE SITE ARE THE SAME AS AT THE TIME OF DESIGN APPROVAL, OR HAVE NOT CHANGED IN A MANNER THAT WOULD AFFECT THE ORIGINAL DESIGN. IF CONDITIONS HAVE CHANGED IN A MANNER THAT WOULD AFFECT THE ORIGINAL DESIGN, THE DESIGNER SHALL NOTIFY THE DEPARTMENT PRIOR TO INSTALLATION.
- THE INSTALLER SHALL NOTIFY THE DESIGNER DURING NORMAL BUSINESS HOURS AT LEAST 72 HOURS PRIOR TO THE PLANNED INSTALLATION OF ANY OWTs. THE DEPARTMENT, AT ITS DISCRETION, MAY INSPECT ANY ASPECT OF THE INSTALLATION OF THE SYSTEM.
- THE DESIGNER MUST AT A MINIMUM, INSPECT AND MAKE MEASUREMENTS, WHERE APPROPRIATE, OF THE FOLLOWING COMPONENTS AND STEPS IN THE INSTALLATION OF THE OWTs:
(1) THE EXPOSED BOTTOM OF THE EXCAVATION FOR THE LEACH FIELD;
(2) THE SIZE AND CONDITION OF ALL STRUCTURES SUCH AS THE SEPTIC TANK, D-BOX, SALTERS, FLOW DIVIDERS, ETC.;
(3) THE ELEVATIONS OF ALL PIPE INVERTS;
(4) ALL SAND MEDIA AND AGGREGATE IS IN ACCORDANCE WITH SPECIFICATIONS AND IS PLACED IN ACCORDANCE WITH THE DESIGN PLAN;
(5) COMPLETED INSTALLATION PRIOR TO COVERING;
(6) THE TYPE OF BACKFILL AND THAT THE BACKFILL IS PROPERLY PLACED AND COMPACTED;
(7) FINAL SOIL COVER INCLUDING 10 FT PERIMETER; AND
(8) ALL HORIZONTAL SET-BACKS, INCLUDING FROM THE BUILDING AND ANY WELLS ON-SITE OR ON ADJUTING LOTS.
- IF CONDITIONS ARE ENCOUNTERED DURING CONSTRUCTION WHICH INDICATE THAT THE SYSTEM CANNOT BE INSTALLED OR IS NOT INSTALLED IN ACCORDANCE WITH THE PERMIT, OR ANY TERMS AND CONDITIONS CONTAINED THEREIN, THE DESIGNER SHALL NOTIFY THE DIRECTOR AS SOON AS POSSIBLE, BUT NO LATER THAN 24 HOURS AFTER DISCOVERY. THE DEPARTMENT SHALL ISSUE WRITTEN GUIDANCE ON SPECIFICATIONS FOR CONSTRUCTION TOLERANCES AS WELL AS CONDITIONS UNDER WHICH RE-DESIGNED PLANS AND REDESIGNED PLANS ARE REQUIRED. THE INSTALLER SHALL STOP CONSTRUCTION IF CONDITIONS ARE SUCH THAT A REDESIGN IS REQUIRED. NOTIFICATION IS NOT REQUIRED IF ALL DESIGN ELEMENTS ARE WITHIN THE TOLERANCES ESTABLISHED BY THE DEPARTMENT THROUGH WRITTEN GUIDANCE. IN RESPONSE TO THE DESIGNER'S NOTIFICATION, THE DIRECTOR SHALL EITHER:
(1) AUTHORIZE THE INSTALLER TO PROCEED WITH THE WORK ON-SITE AND REQUIRE THE DESIGNER TO PROVIDE APPROPRIATE DOCUMENTATION TO THE DEPARTMENT AS MAY BE REQUIRED BY THE DIRECTOR;
(2) REQUIRE THE DESIGNER TO SUBMIT AS-BUILT PLANS WITHIN 10 BUSINESS DAYS AFTER THE OWTs IS INSTALLED TO RECORD CHANGES THAT ARE IN COMPLIANCE WITH THE STANDARDS IN THESE REGULATIONS AND REQUIREMENTS, BUT WHICH ARE UNACCEPTED OR
(3) REQUIRE THE DESIGNER TO SUBMIT REDESIGNED PLANS AND SPECIFICATIONS TO THE DIRECTOR FOR APPROVAL SHOWING CHANGES FROM THE ORIGINAL APPROVED APPLICATION, PLAN AND SPECIFICATIONS.
- THE INSTALLER SHALL PROVIDE THE LICENSED DESIGNER THE INFORMATION BELOW THAT CAN BE USED TO VERIFY THAT THE INSTALLATION OF THE OWTs WAS PERFORMED AS SPECIFIED:
(1) DAILY INSPECTION REPORT (WEATHER CONDITIONS, PERSONS ON-SITE, WORK ACCOMPLISHED AND OTHER INFORMATION CUSTOMARILY INCLUDED IN INSPECTION REPORTS);
(2) A MINIMUM OF TWO PHOTOGRAPHS OF THE SYSTEM BEING INSTALLED;
(3) LIST OF ALL MATERIALS USED, THEIR SOURCE, AND THE DATES DELIVERED TO THE SITE; AND
(4) PRODUCT SPECIFICATION SHEETS, IF DIFFERENT FROM THOSE SPECIFIED IN THE APPROVED DESIGN.
- CERTIFICATE OF CONSTRUCTION
(1) THE DESIGNER THAT IS RESPONSIBLE FOR THE SYSTEM INSTALLATION IN ACCORDANCE WITH RULE 44 SHALL COMPLETE A CERTIFICATE OF CONSTRUCTION THAT CERTIFIES THAT THE OWTs WAS INSTALLED IN CONFORMANCE WITH THE APPROVED APPLICATION, PLANS, SPECIFICATIONS, APPLICABLE STATUTES AND REGULATIONS AND THAT HE OR SHE IS RESPONSIBLE FOR HAVING OBSERVED THE INSTALLATION. THE CERTIFICATE OF CONSTRUCTION SHALL BE ON FORMS PROVIDED BY THE DIRECTOR.
(2) THE CERTIFICATE OF CONSTRUCTION SHALL BE SUBMITTED TO THE DIRECTOR WITHIN FIVE BUSINESS DAYS AFTER THE OWTs, BUILDING FOUNDATION, DRINKING WATER WELL, AND OTHER APPURTENANCES, AS MAY BE SPECIFIED IN WRITTEN DEPARTMENT GUIDANCE HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE DESIGN PLAN. THE DESIGNER SHALL PROVIDE A COPY OF THE CERTIFICATE OF CONSTRUCTION TO THE PROPERTY OWNER.
(3) IN ADDITION TO THE CERTIFICATION IN RULE 44 ABOVE, THE CERTIFICATE OF CONSTRUCTION SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
(A) NAME AND LICENSE NUMBER OF THE DESIGNER;
(B) NAME AND LICENSE NUMBER OF THE INSTALLER;
(C) DISTANCES FROM TWO BUILDING FOUNDATION CORNERS TO THE SEPTIC TANK MANHOLE, TO THE DISTRIBUTION BOX, AND TO THE LEACH FIELD CORNERS.
(4) ONCE THE DESIGNER HAS CERTIFIED THAT THE OWTs HAS BEEN PROPERLY INSTALLED, THE DESIGNER SHALL PROVIDE INFORMATION AND RECOMMENDATIONS TO THE OWNER OF THE OWTs ON SYSTEM SPECIFIC OPERATION AND MAINTENANCE PRACTICES TO PREVENT AGAINST PREATURE SYSTEM FAILURE AND POLLUTION OF THE WATERS OF THE STATE.
(5) THE DESIGNER IS NOT RESPONSIBLE FOR ANY NEGLIGENCE OR OMISSION OF A USER OF AN OWTs, INCLUDING BUT NOT LIMITED TO, FAILURE TO PROPERLY USE AND MAINTAIN THE SYSTEM, WHICH CAUSES DAMAGE TO THE OWTs.

MARK L. DOWDELL
5/24/24
No. 11104
REGISTERED PROFESSIONAL ENGINEER CIVIL

DOWDELL ENGINEERING ASSOCIATES, LLC
CIVIL & ENVIRONMENTAL ENGINEERS
SURVEYORS & LAND PLANNERS
C-048200088
PO BOX 1509
BLOCK ISLAND 02810
PHONE: (401) 364-1027
EMAIL: mark@dowdelleng.com
WEBSITE: dowdelleng.com

JOB NO. 3633 DRAWN BY: R.L.C.
DWG. NO. 3633-OWTS CHECKED: M.L.D.
APPROVED: M.L.D.

SCALE: 1" = 30' DATE: JAN 2025
SHEET: 1 OF 1 SHEETS