

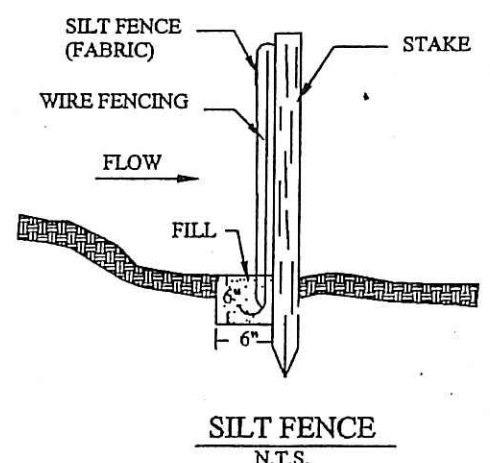
EROSION CONTROL NOTES

1. Prior to any construction activity silt fencing shall be placed as shown and maintained throughout the construction process.
2. All disturbance is to be limited to the areas shown, and is to be kept to an absolute minimum.
3. All excess unwanted excavated materials, construction debris etc., shall be removed from the site and disposed of in a proper manner. Any stockpiled material (soil) to be used later on, as backfill shall be stored upland within the limit of disturbance (silt fencing). All stockpiled areas should be surrounded with silt fencing.
4. No disturbances shall occur outside of the silt fence line during construction of the proposed improvements.
5. All disturbed areas including backfilled and graded areas shall be loamed and seeded as soon as possible upon completion of all construction. All slopes and exposed areas shall be stabilized with straw mulch.
6. All silt fencing and mulch are to remain in place until after the grass has properly rooted, approximately six to eight weeks.
7. The following seed mix is to be used in all disturbed and exposed areas. Before seeding, however, a minimum of four inches of compacted loam is to be placed in the affected areas at a rate of 12.4 cubic yards per 1000 square feet.

SEED MIXTURE-GENERAL PURPOSE

SEED MIXTURE	LBS/ACRE	LBS/1000 square SF
Red Fescue	75	1.75
Kentucky Bluegrass	15	.35
Colonial Bentgrass	5	.11
Perennial Ryegrass	5	.11

The straw mulch is to be applied at a rate of 90 lbs. per 1000 square feet. The grass seed should be planted between April 1-June 15 and August 15-September 30.



PROPOSED SYSTEM:

ADVANTEX TREATMENT SYSTEM
 AX 20 SERIES - MODE 3B CW - OSI
 PUMP CHAMBER 24" DIA., 72" (6.0') HT, OSI
 PUMP TO BSF - OSI PEF 402 2/5 HP
 CONTROL PANEL VCOM ADVANTEX AXB PANEL, 115V
 RECIRCULATING PUMP PA 300511
 10' X 15.50' - BOTTOMLESS SAND FILTER (BSF). SEE SHEET 2 FOR DETAILS.

SIZING OF BOTTOMLESS SAND FILTER (BSF)

4 BEDROOMS X 150 GALS. PER BEDROOM = 600 GALS. (DAILY FLOW RATE)
 600 GALLONS PER DAY + 4.50 GALS/SF/DAY (CATEGORY 1) = 133.33 SF (MIN. REQ'D)
 PROPOSED BSF AREA = 155 SF (10' W X 15.50' L)

GENERAL WETLAND NOTES

- Map is compiled from on site fieldwork completed by Richard A. Greene & Associates, Inc. The map meets Class IV Standards as adopted by the Rhode Island Society of Professional Land Surveyors, Inc.
- Topography as represented is based upon an assumed datum.
- The wetland edge on subject parcel was field delineated (flagged) by Paul Shea, PWS (d.b.a. Independent Environmental Consultants, Inc.).
- The proposed improvements are outside any probable 100-Year Floodplain as referenced by '1' at certain map entitled, "FIRM Flood Insurance Rate Map Town of New Shoreham, Rhode Island Washington County Panel 4 of 4 Community-Panel Number 440036 0004 D Map Revised: September 30, 1995."

SEPTIC SYSTEM ELEVATION SCHEDULE (FT.)

House Sanitary Invert = 95.00

Septic Tank/Advantex System:

Septic Tank Inv. In = 94.75

Septic Tank Inv. = 94.75

Top of Advantex Pod = 98.58

Bottom of Advantex Pod = 96.00

RSV Inv. = 95.83

High Water Alarm/Override Timer = 94.75

Override Timer = 94.58

Top of RSV Cage = 94.53

Top of Filter Cartridge = 93.42

Normal Low Liquid Level = 94.12

Low Water Alarm/Redundant Off = 93.70

Pump Chamber:

Invert In = 95.73 (From Advantex Pod Unit)

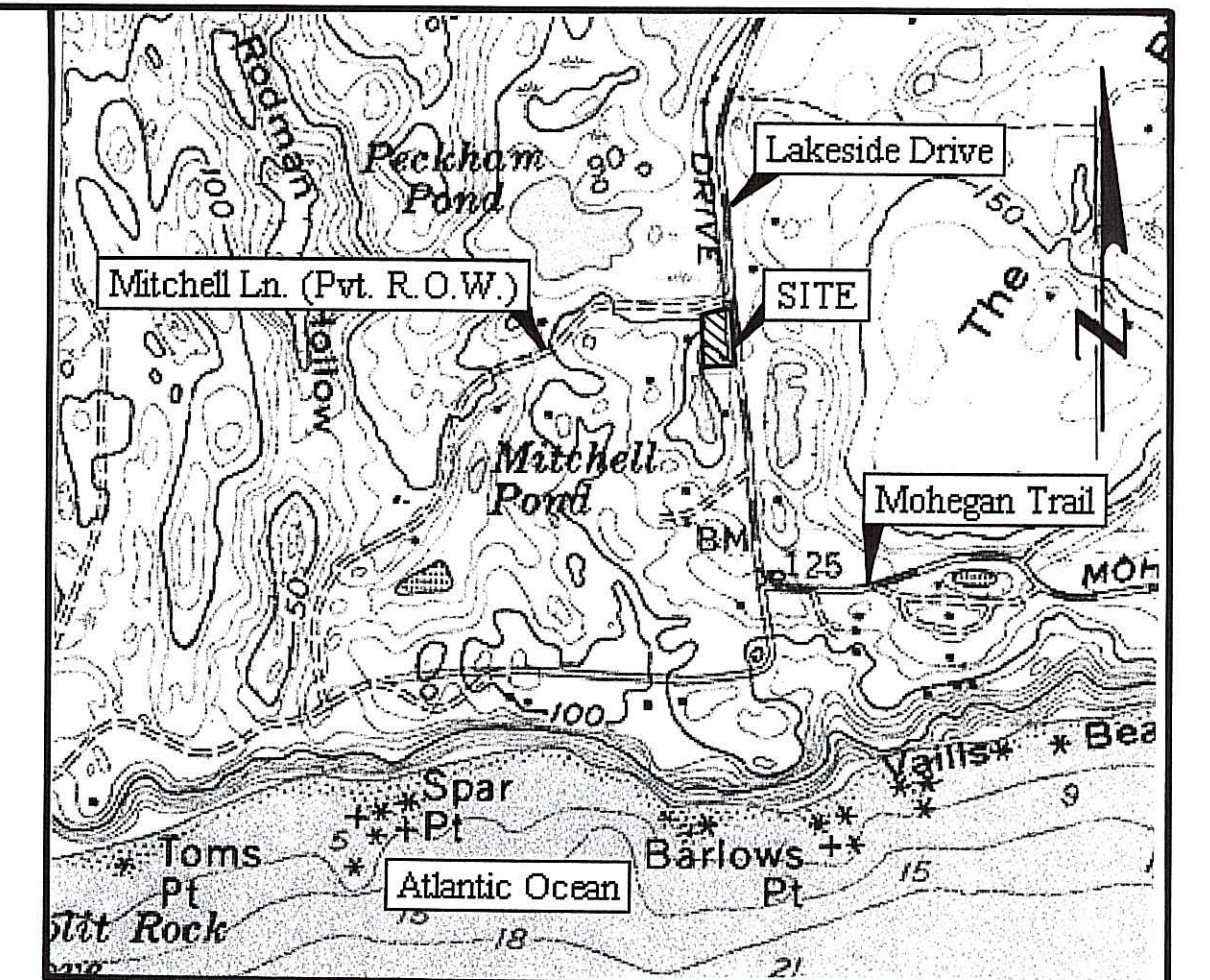
Invert Out = 96.20± (To BSF)

Distribution Laterals: (BSF - Level Pipes)

Pipe Invert = 98.58

Field Design Depth: TH (ISDS No.: 9922-0928) WT = 48" (4.0')
 excavated @ El. 97.75', Water Table El. 93.75'

Interface of Top of Concrete Sand/Bottom of Pea Stone Layer = 98.33'
 This Elevation Provides 4.58' of Vertical Separation to the Water Table.
 Top of Pea Stone = 98.83'; Bottom of Concrete Sand = 96.33'
 BSF Set at Existing Average Grade El. 98.0'±.



LOCATION MAP

GENERAL NOTES:

- THE GENERAL VICINITY IS SUPPLIED BY PRIVATE WELLS. THERE ARE NO EXISTING OR PROPOSED PRIVATE WELLS WITHIN 100' OF THE PROPOSED ISDS. THERE ARE ALSO NO EXISTING OR PROPOSED PUBLIC WELLS WITHIN 500' OF THE PROPOSED ISDS OR RESERVOIRS WITHIN 200' OF THE PROPOSED ISDS. ALL WELLS WITHIN 200' OF THE PROPOSED ISDS ARE AS REFERENCED. THERE ARE NO PROPOSED OR EXISTING SEPTIC SYSTEMS WITHIN 100' OF THE PROPOSED WELL ON THE SUBJECT PARCEL.
- THERE IS A FRESHWATER WETLAND 60' FROM THE PROPOSED BOTTOMLESS SAND FILTER (BSF).
- THE PROPOSED SEPTIC TANK SHALL BE A 1500 GAL. (MIN.) 2-COMPARTMENT PRECAST TANK AND BE EQUIPPED WITH AN ADVANTEX TREATMENT SYSTEM - AX 20 SERIES - MODE 3B CW SYSTEM BY ORENCO SYSTEMS, INC. REFER TO ATTACHED DETAIL SHEET (S) FOR ADDITIONAL INFORMATION AND TYPICAL DETAILS. THE SEPTIC TANK MUST MEET ASTM STANDARD C-1272-97A. IT IS REQUIRED THAT THE SEPTIC TANK BE ACQUIRED FROM JOLLEY PRECAST, TEL: 860-774-9066. IT IS RECOMMENDED THAT THE BOTTOM OF THE SEPTIC TANK HOLE BE EXCAVATED TO A DEPTH TO ALLOW FOR A MINIMUM 6" BASE OF PEA STONE TO PREVENT SETTLING (BEFORE PLACING AGGREGATE COMPACT BOTTOM OF HOLE).
- GRADE SYSTEM AREA PROPERLY TO ENSURE SURFACE WATER RUN-OFF. DO NOT LOAM AND SEED OVER THE BSF AS THIS IS NOT ALLOWED. PARKING OR VEHICULAR TRAFFIC OVER SYSTEM IS PROHIBITED. CLEAR ALL TREES AND SHRUBS WITHIN 10 FEET OF PROPOSED BSF.
- THE HOUSE SANITARY LATERAL PIPING SHALL BE 4" SCH-40 PVC OR BETTER SPECIFICATION OR AS NOTED ON THESE PLANS. ALL BSF LATERAL PIPING SHALL BE 1" PRESSURE SCH-40 PVC. THE MANIFOLD IN THE BSF SHALL BE 1" PRESSURE SCH-40 PVC. THE TRANSPORT LINE (FORCE MAIN) FROM THE PUMP CHAMBER TO THE BSF SHALL BE 1-1/4" PRESSURE SCH-40. ALL ADVANTEX SYSTEM PIPING IS PREDETERMINED OR AS SPECIFIED BY OSI. ALL ADVANTEX COMPONENTS MAY BE ACQUIRED FROM WASTEWATER TECHNOLOGIES, INC. (WTT), TEL: 401-737-7810 OR ATLANTIC SOLUTIONS, INC., TEL: 401-293-0176.
- TWO (2) MAN-HOLE RISERS (ORENCO RIBBED PVC RISERS) WITH COVERS SHALL BE INSTALLED OVER THE SEPTIC TANK ENDS AND SHALL BE RAISED ABOVE THE FINISHED GRADE BY 1". FIBERGLASS INSULATED GASKETED COVERS WITH STAINLESS STEEL BOLTS ARE TO BE UTILIZED. TO PREVENT FROST HEAVE AROUND PVC RISERS BACK FILL WITH PEA GRAVEL.
- THERE ARE NO SUBSURFACE DRAINS, INCLUDING FOUNDATION DRAINS EXISTING OR PROPOSED WITHIN 25 FEET UP GRADIENT OR DOWN GRADIENT OF THE PROPOSED SEWAGE DISPOSAL SYSTEM.
- THE BOUNDARY LINES REPRESENT A CLASS IV STANDARD.
- THE ENTIRE SITE IS LOCATED OUTSIDE THE "CRITICAL RESOURCE AREA" AS DEFINED BY RIDEM - ISDS SECTION.
- THE SEPTIC TANK SHALL BE PUMPED OF CONTENTS WHEN THE SLUDGE DEPTH BECOMES GREATER THAN 1/2 THE LIQUID DEPTH. THE TIME BETWEEN PUMPINGS WILL VARY, BUT IT IS SUGGESTED THAT THE SEPTIC TANK BE PUMPED OF CONTENTS AND INSPECTED AT LEAST EVERY TWO YEARS AND MORE FREQUENTLY WHEN EXTENDED PERIODS OF HIGH FLOW RATES ARE EXPERIENCED.
- THE ORENCO REPRESENTATIVE PRIOR TO INSTALLATION MUST VERIFY ALL SYSTEM COMPONENTS TO BE IN COMPLIANCE. THE DESIGNER SHALL SUPERVISE THE ISDS INSTALLATION AS REQUIRED.
- WHEN CONSTRUCTING THE BOTTOMLESS SAND FILTER REMOVE ALL EXISTING VEGETATION, ORGANIC MATTER, TOPSOIL, AND SUBSOIL TO A DEPTH OF 98.83' WITHIN THE SAND FILTER AREA. C33 WITH 3" OF NATIVE SOIL. WHEN CONSTRUCTING THE BOTTOMLESS SAND FILTER PARTICULARLY DURING THE INSTALLATION OF THE MIXING OF THE SAND MEDIA (ASTM-APPROVED RETAINING STRUCTURE IN CONJUNCTION WITH THE MIXING OF THE SAND MEDIA AND NATIVE SOIL THE INSTALLER MUST ENSURE THAT THE BOTTOM REMAIN SCARIFIED BEFORE THE PLACEMENT OF CONCRETE SAND (ASTM-C33). IT IS IMPERATIVE THAT THE BOTTOM DOES NOT BECOME COMPACTED FROM THE USE OF EQUIPMENT OR FOOT TRAFFIC. IF WARRANTED THE BOTTOM MUST BE RE-SCARIFIED BEFORE THE PLACEMENT OF CONCRETE SAND. THE CONCRETE SAND IS TO BE ACQUIRED FROM THE HOLLISTON SAND COMPANY, INC., SLATERSVILLE, RI OR DRY BRIDGE SAND & GRAVEL, PEACEDALE, RI.
- A BENCHMARK MUST BE SET WITHIN 150' OF THE PROPOSED SEPTIC SYSTEM AND DWELLING, PRIOR TO THE START OF ANY CONSTRUCTION.
- PRIOR TO ANY CONSTRUCTION IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE BENCHMARK ELEVATION. IF ANY DISCREPANCIES ARE NOTED, PLEASE CONTACT DESIGNER IMMEDIATELY.
- PRIOR TO ANY CONSTRUCTION ALL EROSION CONTROL STRUCTURES MUST BE IN PLACE (REFER TO "EROSION CONTROL NOTES").
- ALL WARRANTIES OF THE SYSTEM COMPONENTS ARE AS PRESENTED BY THE COMPANIES INVOLVED.
- LOW WATER VOLUME FIXTURES SHALL BE USED IN THE PLUMBING AND A GARBAGE DISPOSAL UNIT IS NOT ALLOWED TO DISCHARGE INTO THE PROPOSED ISDS. ALSO, BACKWASH OR DISCHARGE FROM A WATER TREATMENT SYSTEM IS PROHIBITED FROM ENTERING THE PROPOSED SEPTIC SYSTEM.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUL - 9 2007 FILE # 07-0093
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
 Nancy L. Freeman

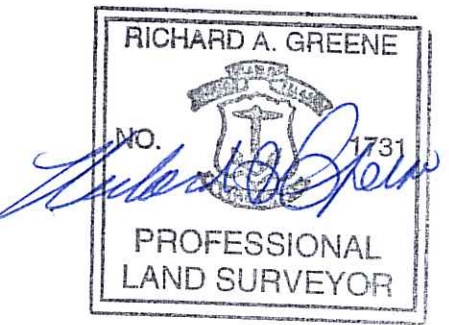
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

MAINTENANCE & WARRANTY NOTES:
 The installer shall provide the owner and designer with copies of the AdvanTex System components warranty and maintenance requirements. The owner shall be responsible for maintaining all septic system components in accordance with the manufacturer's recommendations. The effluent filter media and septic system components shall be maintained as required for the septic system to properly operate.

IMPORTANT NOTE:
 The RIDEM-ISDS permit (approved application) for the installation of the septic system along with an Operation and Maintenance Agreement for servicing the septic system must be recorded in the Land Evidence Records of the Town of New Shoreham. Copies of these recorded documents must be forwarded to RIDEM-ISDS Section along with a Certificate of Construction in order to receive a Certificate of Conformance for the installation of the septic system.

CRITICAL NOTE:
 This system has been designed by a licensed sewage disposal system designer, Richard A. Greene, PLS (Designer License D2008) and must be installed under the supervision of the designer and inspected by the designer. Please read the application form that accompanies this plan carefully. The installer must notify the designer at least 72 hours prior to the installation of the approved septic system. The designer will contact RIDEM to give notification of the installation date at least 24 hours prior to the installation of the septic system. The designer can be contacted at (401) 364-9405.

THIS SURVEY AND PLAN CONFORM TO A CLASS - STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.
 By: *Richard A. Greene* REGISTERED PROFESSIONAL LAND SURVEYOR DATE: 4/30/07



PLAN SHOWING PROPOSED INDIVIDUAL SEWAGE DISPOSAL SYSTEM AND SITE IMPROVEMENTS FOR:
GARY HALL
 ASSESSOR'S PLAT 11 LOT 46
 LAKESIDE DRIVE
 TOWN OF NEW SHOREHAM, RHODE ISLAND
 SCALE: 1" = 20' JANUARY 2007
 RICHARD A. GREENE & ASSOCIATES, INC.
 220 RICHMOND TOWNHOUSE ROAD
 CAROLINA, RHODE ISLAND 02812
 Tel. 401-364-9405 Fax 401-364-9403 MAY - 3 2007
 SHEET 1 OF 2

REV.#	DATE	REVISION
1	April 2007	House orientation per client request

LEGEND

- Existing Contour Elevation
- Proposed Contour Elevation
- Groundwater/Soil Test Hole
- Flagged Wetland Edge w/Flag Number
- Existing Steel Guard Rail
- Existing Utility Pole
- Proposed Silt Fence (Limit of Disturbance)
- Existing Stonewall

