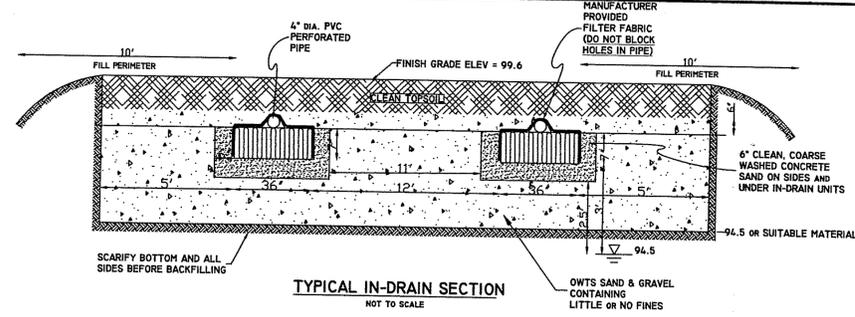


Office of Water Resources  
 Environmental Management  
 SEP - 9 2011

**BASIS OF SANITARY DESIGN**  
 NUMBER OF BEDROOMS: 3 PROPOSED  
 GARBAGE GRINDER: NOT ALLOWED  
 ESTIMATED SEWAGE FLOW: 34.5 GALLONS PER DAY  
 SIZE OF SEPTIC TANK: 1000 GALLONS  
 DESIGN PERCOLATION RATE: 20 MIN/INCH  
 LEACHING AREA PROVIDED: 2 IN-DRAIN LEACHING TRENCHES AT 37' LONG  
 4" WIDE W/ 6" COARSE WASHED SAND ON SIDES & UNDER UNITS  
 = 756 SF (27 UNITS TOTAL) (664 SF REQUIRED)  
 SYSTEM CAPACITY: 756 SF x 0.52 GALLONS/SF/DAY  
 = 393 GALLONS PER DAY

- NOTES**
1. ALL CONSTRUCTION SHALL CONFORM TO THE STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS DEPARTMENT OF ENVIRONMENTAL MANAGEMENT - RULES AND REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS MOST RECENTLY AMENDED.
  2. ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER WITH LINES LAID AS STRAIGHT AS POSSIBLE AND JOINTS MADE WATERTIGHT. ALL WORK TO BE DONE BY AN INSTALLER LICENSED IN THE STATE OF RHODE ISLAND.
  3. SEPTIC TANK TO BE JOLLEY PRECAST 1000 GALLON TWO COMPARTMENT SEPTIC TANK. TWO SEPTIC TANK COVERS TO BE BROUGHT TO FINISH GRADE. OUTLET FILTER REQUIRED.
  4. DISTRIBUTION BOX TO BE JOLLEY PRECAST DB7 D-BOX OR APPROVED EQUALS. ALL DISTRIBUTION LINES FROM BOX ONE FOOT INTO START OF TRENCH TO BE MINIMUM SOLID SDR-35. A DROP OF 2" IS REQUIRED FROM THE D-BOX TO THE START OF THE TRENCHES. BAFFLES OR INLET TEE REQUIRED IN D-BOX.
  5. LEACHING AREA EXCAVATION SHALL BE LEVEL AND SCARIFIED. EXCAVATION SHALL BE STRIPPED OF ALL BRUSH, TREES, TOPSOIL, SUBSOIL, AND OTHER UNDESIRABLE MATERIAL AND BACKFILLED WITH CLEAN COARSE SAND, GRAVEL, OR STONE, AS DESIGNATED ON THE PLAN. SAND AND GRAVEL TO HAVE A MINIMUM PERCOLATION RATE OF 5 MIN/INCH. MAX STONE SIZE IS 6". LIMIT 10% OF 2" - 6" STONES.
  6. ALL BACKFILL MATERIAL PLACED OVER THE SEPTIC SYSTEM SHALL BE FREE OF LARGE STONES, RUBBISH, OR OTHER DELETERIOUS MATERIALS. HEAVY EQUIPMENT SHALL NOT BE ALLOWED TO RUN OVER THE LEACHING AREA.
  7. THE SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE GRINDER, WATER SOFTNER, OR JACUZZI.
  8. FOR PROPER OPERATION, THE SEPTIC TANK SHALL BE INSPECTED ANNUALLY AND PUMPED AT NO GREATER THAN 2 YEAR INTERVALS. OUTLET FILTER TO BE INSPECTED AND CLEANED SEMI-ANNUALLY.
  9. NO PARKING IS PERMITTED IN THE VICINITY OF THE OWTS.
  10. DIG SAFE NOTIFICATION IS REQUIRED PRIOR TO ANY EXCAVATION.
  11. CONTRACTOR TO INSTALL 12" MINIMUM COVER OVER OWTS. CONTRACTOR IS TO INSURE 6" LOAM AND SEED OVER ALL DISTURBED AREAS UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE FOR FINISH LANDSCAPING.
  12. PROPERTY LINES AS DEPICTED ON THIS PLAN ARE APPROXIMATE ONLY AND ARE NOT THE RESULT OF A BOUNDARY SURVEY.
  13. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL SAFETY AND BUILDING CODES ARE FOLLOWED.
  14. DESIGNER IS TO BE NOTIFIED 72 HOURS (3 WORKING DAYS) PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR IS TO INSURE THAT DESIGNER IS NOTIFIED 2 WORKING DAYS IN ADVANCE OF REQUIRED INSPECTION SO PROPER NOTIFICATION TO RIDEM CAN BE MADE.
  15. FAILURE TO PROVIDE ADVANCE NOTICE WILL RESULT IN DELAYS TO THE CONTRACTOR. WORK SHALL NOT CONTINUE UNTIL VARIOUS STAGE IS APPROVED.



**IN-DRAIN UNIT SPECIFICATIONS**

TYPE	LENGTH	WIDTH	HEIGHT	WEIGHT
B	4'	3'	7"	22 LBS.

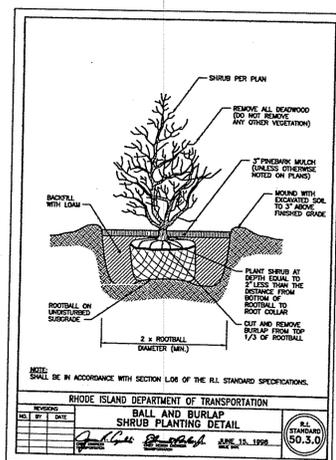
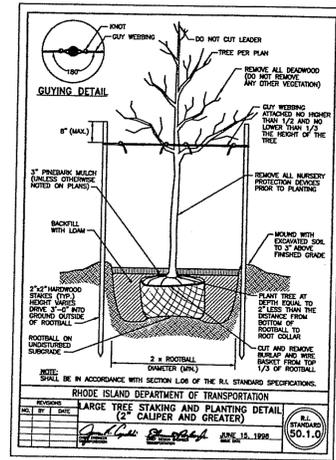
ALL PIPING ON IN-DRAINS TO BE 4" DIA. SDR 35 PERFORATED PVC INTERCONNECT TRENCHES EVERY 25' MAXIMUM

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

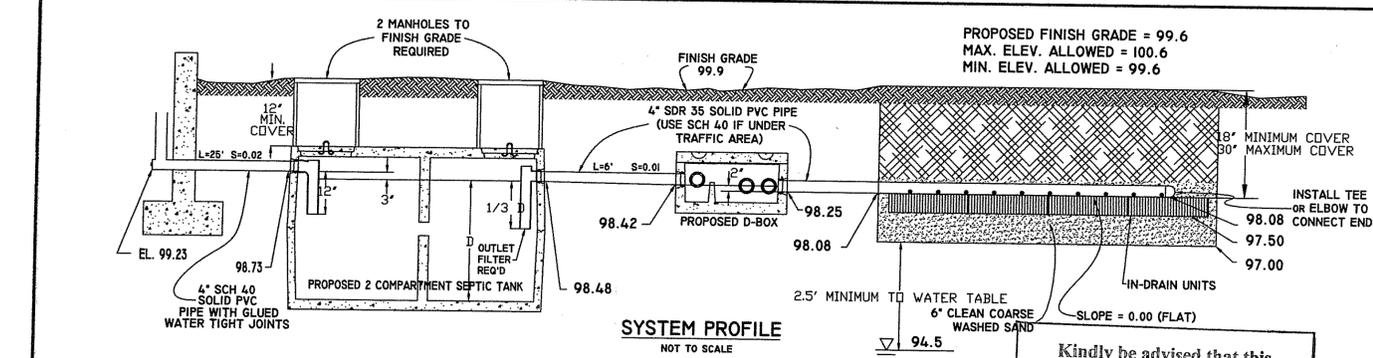
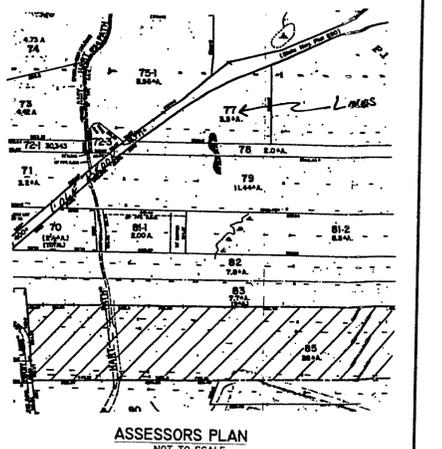
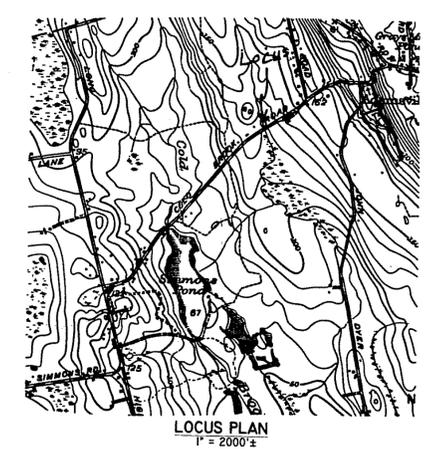
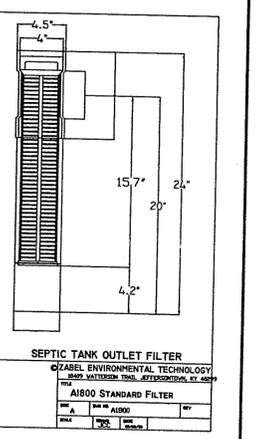
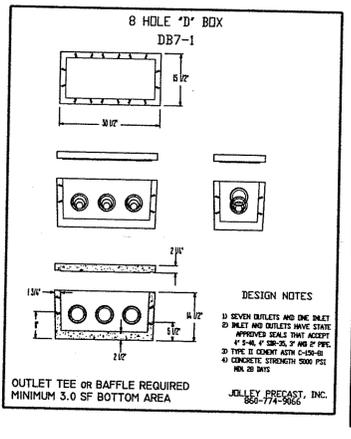
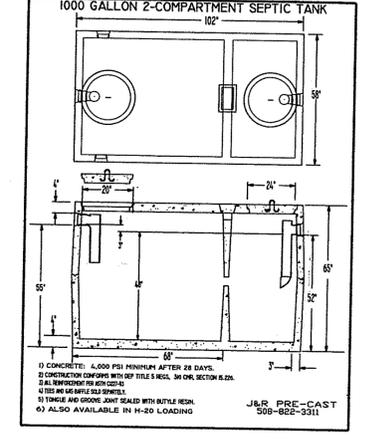
**FINISHED FIRST FLOOR..... 104.20**  
**TOP OF FOUNDATION..... 103.00**  
**FINISHED BASEMENT FLOOR..... 95.25**  
**GARAGE SLAB..... 101.00**  
**INVERT AT DWELLING..... 99.23**  
**INVERT INTO SEPTIC TANK..... 98.73**  
**INVERT OUT OF SEPTIC TANK..... 98.48**  
**INVERT INTO D-BOX..... 98.42**  
**INVERT OUT OF D-BOX..... 98.25**  
**INVERT AT BEGINNING OF TRENCH..... 98.08**  
**INVERT AT END OF TRENCH..... 97.50**  
**BOTTOM OF IN-DRAIN..... 97.50**  
**BOTTOM OF COARSE SAND..... 97.00**  
**BOTTOM OF OWTS SAND & GRAVEL..... 94.50**  
**ELEVATION OF WATER TABLE..... 94.5**  
**EXISTING AVERAGE GRADE AT OWTS..... 97.5**

\*\*\*NOTE ELEVATIONS ARE BASED ON A CONVENTIONAL DWELLING WITH A WALKOUT ON SOUTH SIDE. NOTIFY DESIGNER OF ANY DISCREPANCIES PRIOR TO ANY WORK. DESIGN SITE IS TO BE SERVICED BY PRIVATE ON-SITE WELL.  
 ALL EXISTING OR PROPOSED WELLS WITHIN 200' OF PROPOSED OWTS ARE SHOWN. MAINTAIN ELEVATION 98.1 WITHIN 10' OF PROPOSED OWTS.  
 NO EXISTING OR PROPOSED PUBLIC WELLS WERE OBSERVED WITHIN 500' OF PROPOSED OWTS.  
 NO UPGRADIENT DRAINS ALLOWED WITHIN 25' OF PROPOSED OWTS.  
 NO DOWNGRADIENT DRAINS ALLOWED WITHIN 50' OF PROPOSED OWTS.  
 BRING SEPTIC TANK COVERS TO GRADE. COVER TO BE 18" MIN. COVERS TO WEIGH 59 LBS. MINIMUM OR BOLT DOWN.  
 ALL OWTS PIPE TO BE 4" DIAMETER, PVS SDR 35 (MIN) PERFORATED OR SOLID AS REQUIRED.  
 BUILDING SEWER TO BE 4" SCH 40 WITH GLUED, WATERTIGHT JOINTS.

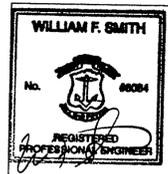
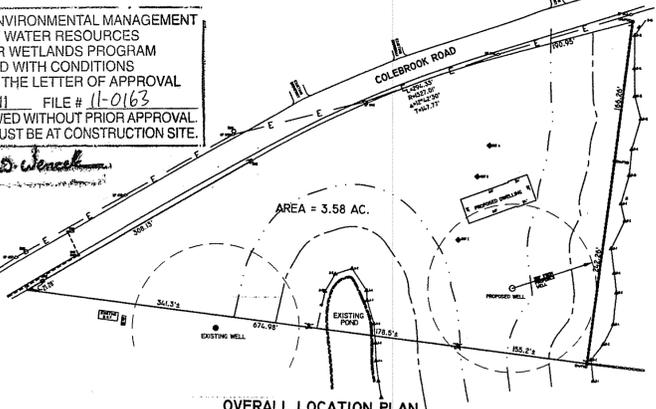
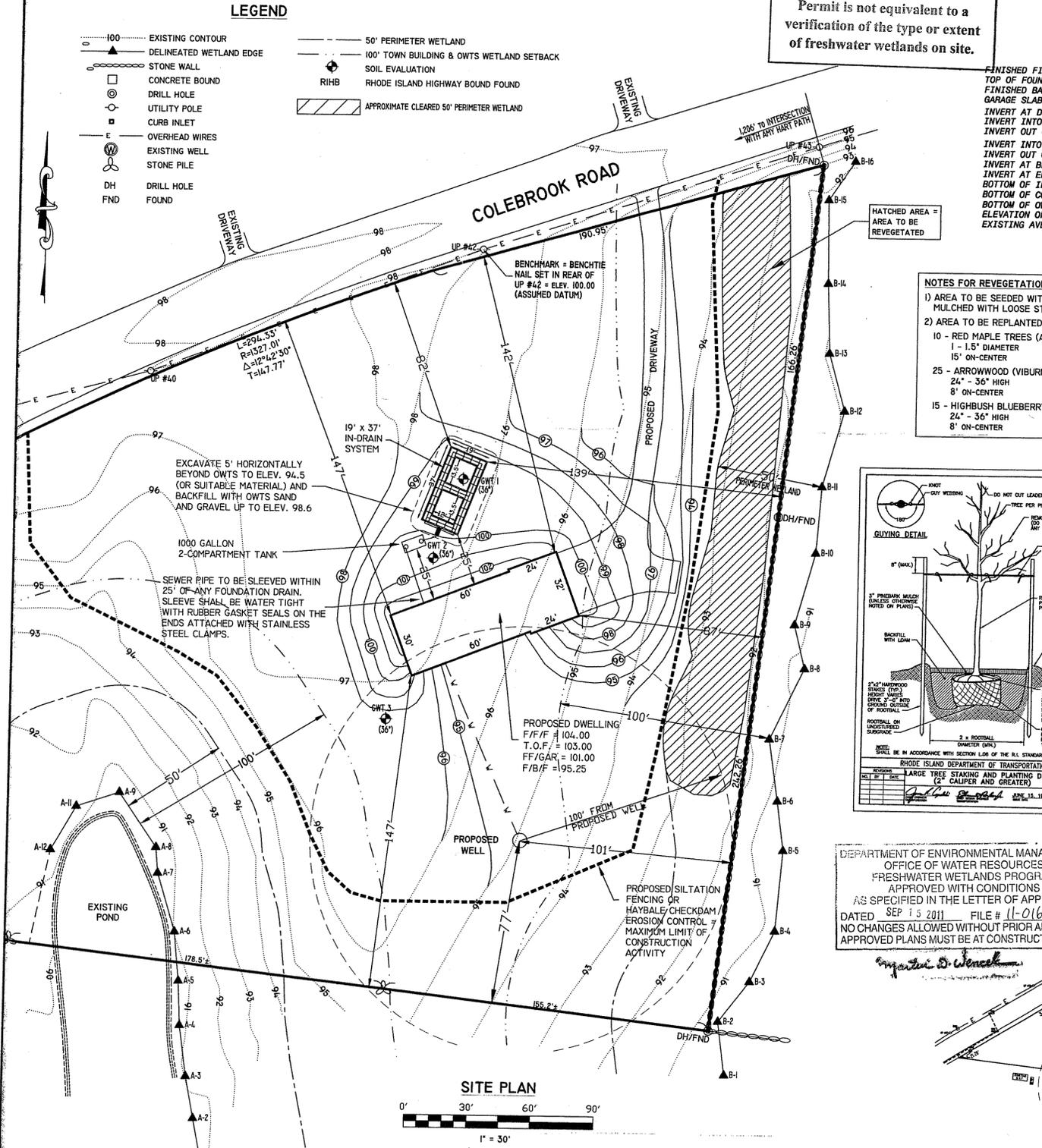
- NOTES FOR REVEGETATION**
- 1) AREA TO BE SEEDED WITH A CONSERVATION GRASS MIXTURE AND MULCHED WITH LOOSE STRAW.
  - 2) AREA TO BE REPLANTED WITH THE FOLLOWING:  
 10 - RED MAPLE TREES (ACER RUBRUM)  
 1 - 1.5" DIAMETER  
 15' ON-CENTER  
 25 - ARROWWOOD (VIBURNUM DENTATUM)  
 24" - 36" HIGH  
 8' ON-CENTER  
 15 - Highbush Blueberry (VACCINIUM CORYMBOSUM)  
 24" - 36" HIGH  
 8' ON-CENTER



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED SEP 15 2011 FILE # 11-0163  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.



- LEGEND**
- 100 - EXISTING CONTOUR
  - DELINEATED WETLAND EDGE
  - STONE WALL
  - CONCRETE BOUND
  - DRILL HOLE
  - UTILITY POLE
  - CURB INLET
  - OVERHEAD WIRES
  - EXISTING WELL
  - STONE PILE
  - DH - DRILL HOLE
  - FND - FOUND
  - 50' PERIMETER WETLAND
  - 100' TOWN BUILDING & OWTS WETLAND SETBACK
  - SOIL EVALUATION
  - RIHB - RHODE ISLAND HIGHWAY BOUND FOUND
  - APPROXIMATE CLEARED 50' PERIMETER WETLAND



WILLIAM F. SMITH  
 No. 0004  
 REGISTERED PROFESSIONAL ENGINEER  
 #2; 9/8/11; REVISE L.O.D. PER RI DEM  
 #1; 7/15/11; ADD NRS NOTES & DETAILS  
 REVISIONS:

PROPOSED OWTS NEW CONSTRUCTION PLAN  
 PREPARED FOR  
**GRAYTON WAITE (OWNER)**  
**MARC & SARAH FEDERICO (P&S)**  
 ASSESSOR'S PLAT 40 LOT 77  
 COLEBROOK ROAD  
 LITTLE COMPTON, RHODE ISLAND  
 SCALE: 1" = 30'  
 DATE: MAY 26, 2011

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