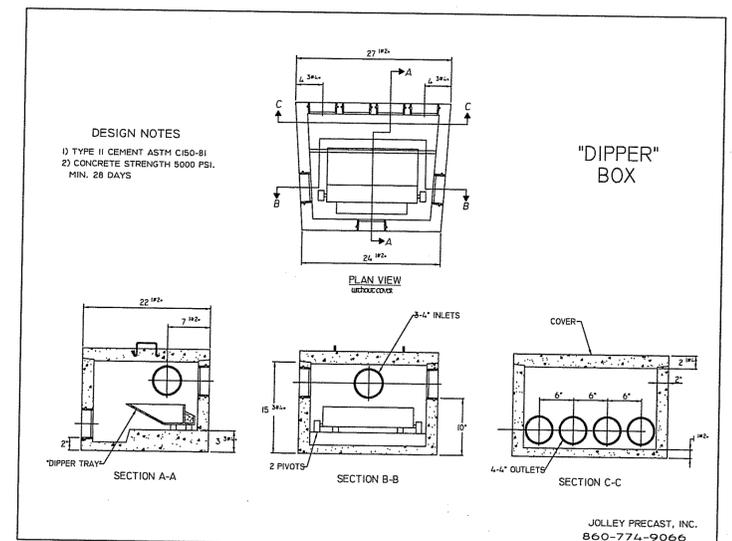
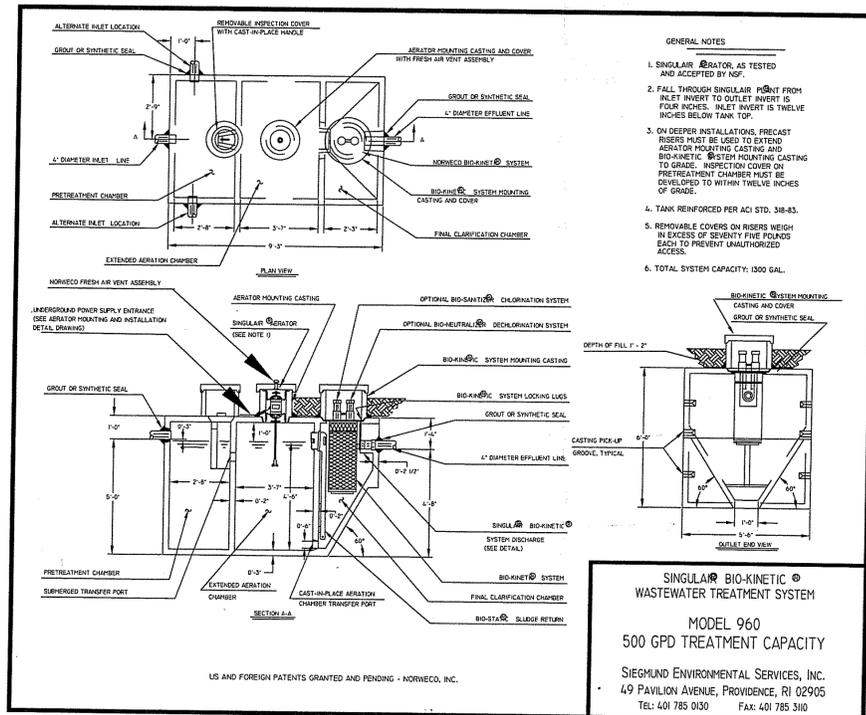


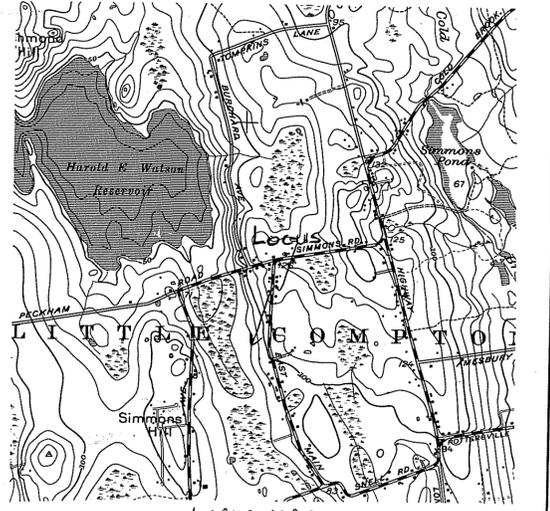
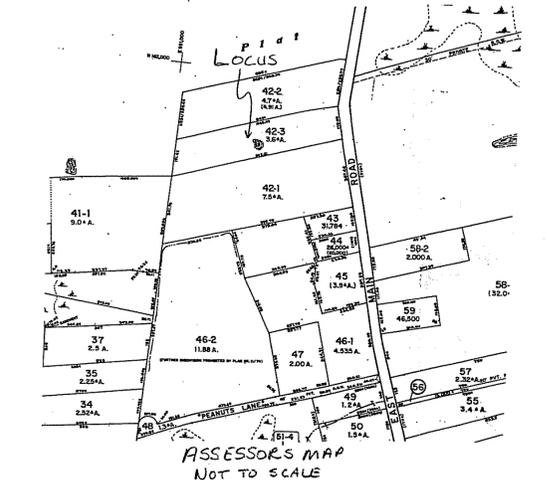
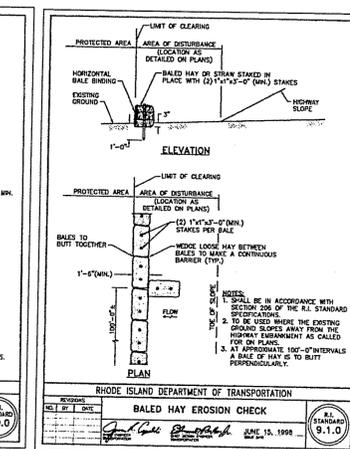
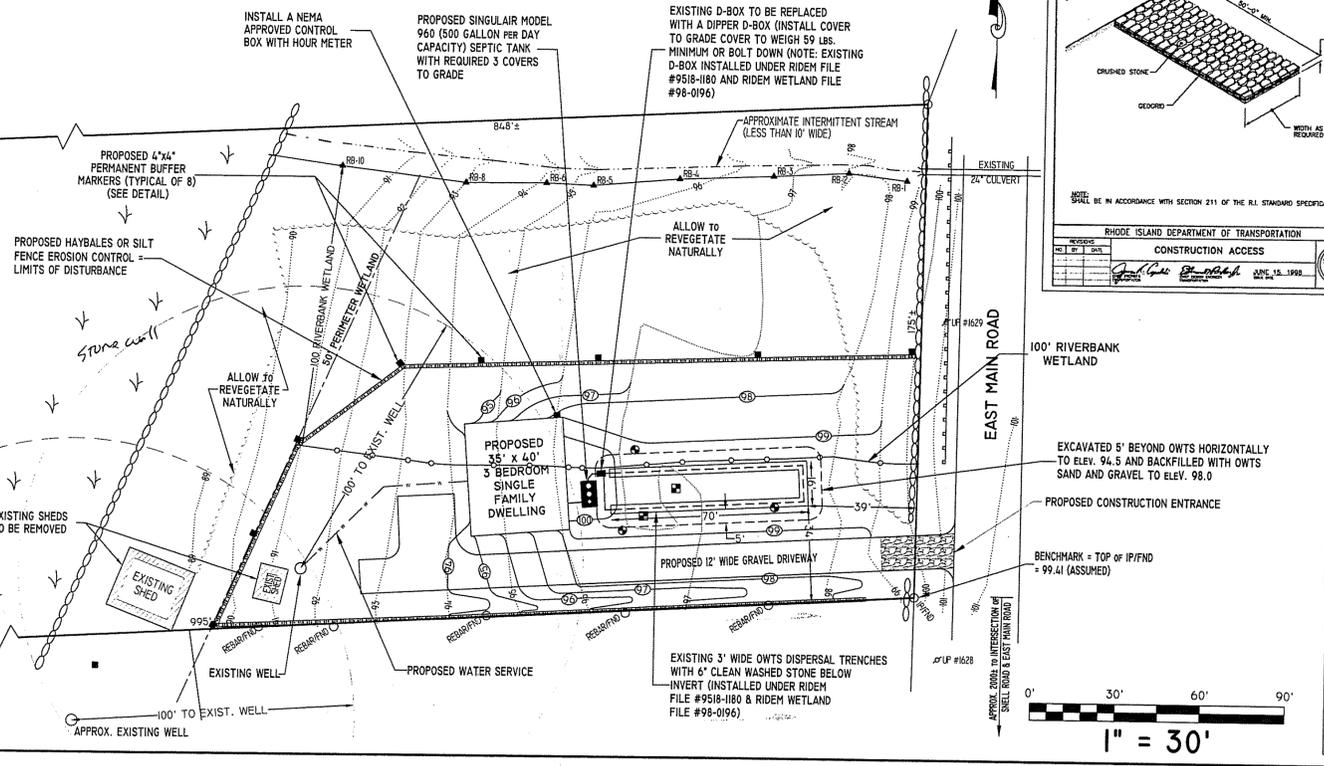
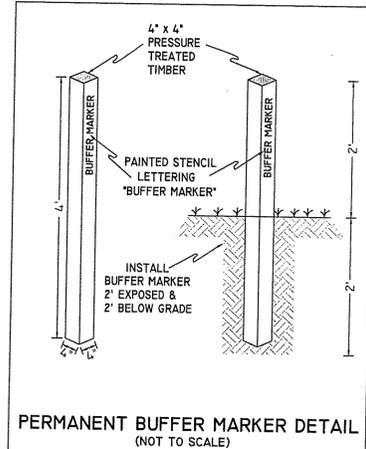
BASIS OF SANITARY DESIGN
 NUMBER OF BEDROOMS: 3
 GARBAGE GRINDER: NOT ALLOWED
 ESTIMATED SEWAGE FLOW: 345 GALLONS PER DAY
 SIZE OF SEPTIC TANK: SINGLAIR 960 (500 GPD CAPACITY)
 DESIGN PERCOLATION RATE: 20 MIN/INCH
 LEACHING AREA PROVIDED: 2 OWS DISPERSAL TRENCHES AT 70' BELOW
 3' WIDE W/ 6" CLEAN WASHED STONE BELOW INVERT
 = 450 SF (431 SF REQUIRED WITH SINGLAIR REDUCTION)
 SYSTEM CAPACITY: 450 SF x 0.52 GALLONS/SF/DAY
 = 234 GALLONS PER DAY

FINISHED FIRST FLOOR..... 102.50
TOP OF FOUNDATION..... 101.50
FINISHED BASEMENT FLOOR..... 94.00
INVERT AT DWELLING..... 99.00
INVERT INTO SEPTIC TANK..... 98.85
INVERT OUT OF SEPTIC TANK..... 98.52
INVERT INTO D-BOX..... 98.47
INVERT OUT OF D-BOX..... 97.52 (EXISTING)
INVERT AT END OF TRENCH..... 97.50 (EXISTING)
BOTTOM OF CLEAN STONE..... 97.0 (EXISTING)
ELEVATION OF WATER TABLE..... 94.0
EXISTING AVERAGE GRADE AT OWS..... 97.0
 ***NOTE: ELEVATIONS ARE BASED ON CONVENTIONAL DWELLING. NOTIFY DESIGNER OF ANY DISCREPANCIES PRIOR TO ANY WORK. DESIGN DOES NOT PERMIT TOILETS IN BASEMENT AREA.

- 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 SINGLAIR MODEL 960 (500 GALLON PER DAY CAPACITY) SEPTIC TANK. THREE SEPTIC TANK COVERS TO BE BROUGHT TO FINISH GRADE. OUTLET FILTER REQUIRED.
 - 4.) DISTRIBUTION BOX TO BE JOLLEY PRECAST DIPPER 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. RAFFLES OR INLET TEE REQUIRED IN D-BOX.
 - 5.) LEACHING AREA EXCAVATION SHALL BE LEVEL AND SCARIFIED. CARE SHALL BE TAKEN TO AVOID COMPACTION OF THE LEACHING AREA. 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 SOFTENER, 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 OWS.
 - 10.) DIG SAFE NOTIFICATION IS REQUIRED PRIOR TO ANY EXCAVATION.
 - 11.) CONTRACTOR TO INSTALL 12" MINIMUM COVER OVER OWS. 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 TO BE NOTIFIED 72 HOURS (3 WORKING DAYS) PRIOR TO THE START OF OWS CONSTRUCTION. CONTRACTOR IS TO INSURE THAT DESIGNER IS NOTIFIED 2 WORKING DAYS IN ADVANCE OF REQUIRED INSPECTIONS SO PROPER NOTIFICATION TO RIDEM CAN BE MADE. FAILURE TO PROVIDE ADVANCE NOTICE WILL RESULT IN DELAYS TO THE CONTRACTOR. WORK SHALL NOT CONTINUE UNTIL VARIOUS STAGES IS APPROVED.
 - 15.) HAYBALES OR SILT FENCE EROSION CONTROL TO BE INSTALLED PRIOR TO CONSTRUCTION ACTIVITIES AND REMAIN IN PLACE UNTIL WORK IS COMPLETED AND STAND OF TURF IS ESTABLISHED. REPLACE AND MAINTAIN HAYBALES OR SILT FENCE AS NECESSARY.
 - 16.) FUELING OF VEHICLES IS NOT PERMITTED WITHIN 100' OF WETLAND AREAS.
 - 17.) INSTALL A NEMA APPROVED CONTROL BOX WITH HOUR METER WITHIN SIGHT OF THE SINGLAIR TANK AS REQUIRED BY THE MANUFACTURER.
 - 18.) THE OWS DISPERSAL TRENCHES AND D-BOX ONLY, HAVE BEEN INSTALLED UNDER RIDEM FILE #9518-180 AND RIDEM DETAIL FILE #98-0196. PROPOSED WORK IS FOR COMPLETION OF THE OWS (INSTALLING SINGLAIR TANK AND UPGRADING THE D-BOX), DWELLING, DRIVEWAY, AND ASSOCIATED LANDSCAPING.



ALL EXISTING AND PROPOSED WELLS WITHIN 200' OF PROPOSED OWS ARE SHOWN. NO EXISTING OR PROPOSED PUBLIC WELLS WERE OBSERVED WITHIN 500' OF PROPOSED OWS. NO EXISTING OR PROPOSED SEPTIC SYSTEMS WITHIN 100' OF PROPOSED WELL. MAINTAIN ELEVATION 97.65 WITHIN 10' OF PROPOSED OWS. NO UPGRADIENT DRAINS ALLOWED WITHIN 25' OF PROPOSED OWS. NO DOWNGRADIENT DRAINS ALLOWED WITHIN 50' OF PROPOSED OWS. BRING SEPTIC TANK COVERS TO GRADE. COVERS TO MEET MANUFACTURER SPECIFICATIONS AND WEIGH 59 LBS. MINIMUM OR BOLT DOWN. DISTRIBUTION BOX TO BE JOLLEY PRECAST DIPPER BOX WITH COVER TO GRADE. COVER TO WEIGH 59 LBS. MINIMUM OR BOLT DOWN. ALL OWS PIPE TO BE 4" DIAMETER, PVC SDR 35 (MIN) PERFORATED OR SOLID AS REQUIRED. OUTLET FILTER TO BE INSPECTED SEMI-ANNUALLY TO ENSURE PROPER FUNCTIONING. BUILDING SEWER TO BE 4" SCH 40 PVC WITH GLUED, WATERTIGHT JOINTS.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED 10-00-84 FILE # JUN 10 2010
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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

WILLIAM F. SMITH
 No. #3084
 REGISTERED PROFESSIONAL ENGINEER

OWTS NEW CONSTRUCTION PLAN
 PREPARED FOR
ETHAN F. SIMMONS
 ASSESSOR'S FLAT 28 LOT 42-3
 EAST MAIN ROAD
 LITTLE COMPTON, RHODE ISLAND
 SCALE: 1" = 30'
 DATE: FEBRUARY 11, 2010
Civil Engineering Concepts, Inc.
 34-A MAIN STREET P.O. BOX 5323
 LITTLE COMPTON, RI 02837 NEW BEDFORD, MA 02742
 PH: (401) 592-0177 FAX: (401) 592-0178 (508) 990-4900