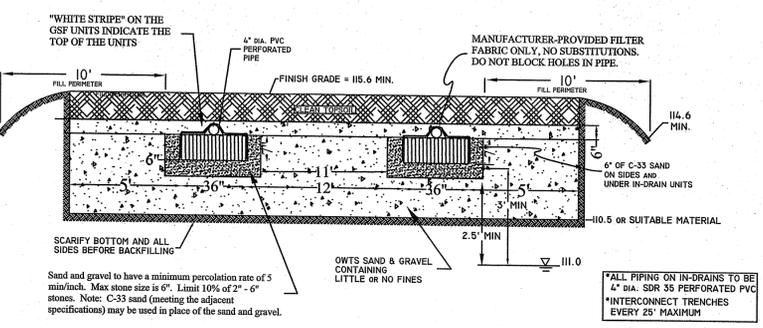


SYSTEM PROFILE
NOT TO SCALE

BASIS OF SANITARY DESIGN:
 NUMBER OF BEDROOMS: 4 PROPOSED
 GARBAGE GRINDER: NOT ALLOWED
 ESTIMATED SEWAGE FLOW: 460 GAL/DAY
 SIZE OF SEPTIC TANK: 2000 GALLONS (2-COMPARTMENT + PUMP VAULT)
 DESIGN RATE: SOIL CAT 9, 0.40 GAL/SF/DAY L.R.

LEACHING AREA REQUIRED: 460 GPD
 = 1150 S.F. REQUIRED
 0.40 L.R.

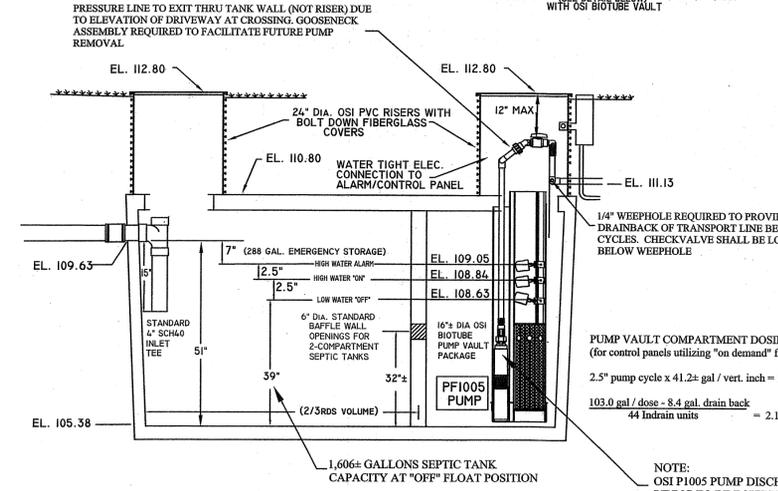
LEACHING AREA PROVIDED: 44 IN-DRAIN UNITS X 28 SF/UNIT = 1232 S.F. PROVIDED
 1232 S.F. X 0.40 L.R. = 492 GPD (SYSTEM CAPACITY)



IN-DRAIN UNIT SPECIFICATIONS			
TYPE	LENGTH	WIDTH	HEIGHT
B	4'	3'	22 LBS.

STRIP OUT BETWEEN TRENCHES
 DO NOT STRIP-OUT BETWEEN TRENCHES

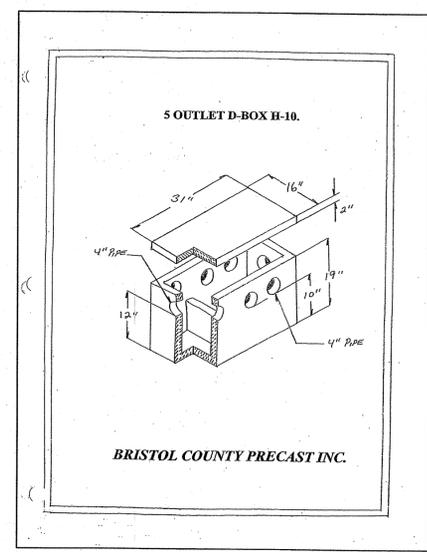
TYPICAL IN-DRAIN SECTION
NOT TO SCALE



ELEVATION SCHEDULE

INVERT AT FOUNDATION.....110.35
 INVERT INTO SEPTIC TANK.....109.63
 INVERT OUT OF SEPTIC TANK (PUMP).....111.13
 INVERT INTO D-BOX.....114.92 (1.5" pressure pipe with Tee)
 INVERT OUT OF D-BOX.....114.75
 ELEV. OF WATER TABLE AT TANK.....109.5 (24")
 AVERAGE EXIST. GRADE AT TANK.....111.5

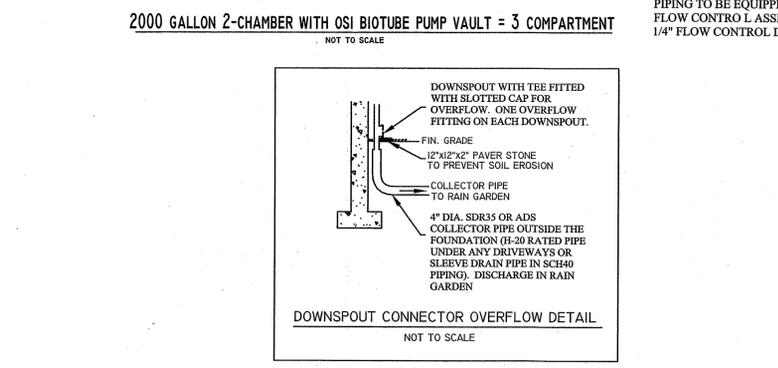
INVERT AT BEGINNING OF TRENCH.....114.58
 INVERT AT END OF TRENCH.....114.58
 BOTTOM OF IN-DRAIN.....114.00
 BOTTOM OF COARSE SAND.....113.50
 BOTTOM OF OWTS SAND & GRAVEL.....110.50 (or suitable material)
 ELEV. OF WATER TABLE AT TRENCHES.....111.0 (24")
 EXIST. GRADE AT TRENCHES.....113.0



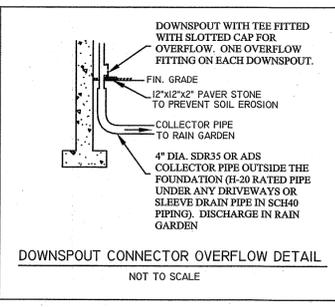
- NOTES:**
1. ALL CONSTRUCTION SHALL CONFORM TO RI DEM OWTS REGULATIONS 250-RICR-150-10-6; RULES ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS AS MOST RECENTLY AMENDED.
 2. ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER 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 TWO COMPARTMENT SEPTIC TANK OR APPROVED EQUAL. CAPACITY AS SHOWN ON ACCOMPANYING DETAILS. TWO SEPTIC TANK COVERS TO BE BROUGHT TO FINISH GRADE.
 4. DISTRIBUTION BOX TO BE BRISTOL COUNTY PRECAST 5 OUTLET D-BOX OR APPROVED EQUAL. ALL DISTRIBUTION LINES 1 FOOT INTO START OF TRENCHES TO BE MINIMUM SDR-35 SOLID PIPE. A DROP OF 2" IS REQUIRED FROM THE D-BOX TO THE START OF THE TRENCHES. BAFFLE OR INLET TEE REQUIRED IN THE D-BOX.
 5. INSTALLATION OF THE ELJEN IN-DRAIN (GSF) SYSTEM SHALL CONFORM TO THE "GEOTEXTILE SAND FILTER, RHODE ISLAND DESIGN & INSTALLATION MANUAL" AS MOST RECENTLY AMENDED.
 6. 6" MINIMUM LAYER OF C-33 WASHED SAND REQUIRED UNDER, BETWEEN ROWS, AND AROUND THE PERIMETER. C-33 SAND SHALL HAVE LESS THAN 10% PASSING A #100 SIEVE AND LESS THAN 5% PASSING A #200 SIEVE.
 7. 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. NOTE: C-33 SAND (MEETING THE ABOVE SPECIFICATION) MAY BE USED IN PLACE OF THE SAND AND GRAVEL.
 8. 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.
 9. THE SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE GRINDER, WATER SOFTENER, OR JACUZZI.
 10. 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.
 11. NO PARKING IS PERMITTED IN THE VICINITY OF THE OWTS.
 12. DIG SAFE NOTIFICATION IS REQUIRED PRIOR TO ANY EXCAVATION.
 13. CONTRACTOR TO INSTALL 12" MINIMUM COVER OVER THE IN-DRAIN UNITS. CONTRACTOR IS TO INSURE 6" LOAM AND SEED OVER ALL DISTURBED AREAS UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE FOR FINISH LANDSCAPING.
 14. DESIGNER TO BE NOTIFIED 72 HOURS (3 WORKING DAYS) PRIOR TO THE START OF OWTS CONSTRUCTION. CONTRACTOR IS TO INSURE THAT DESIGNER IS NOTIFIED 2 WORKING DAYS IN ADVANCE OF REQUIRED INSPECTIONS SO PROPER NOTIFICATION TO RIDENI CAN BE MADE. FAILURE TO PROVIDE ADVANCE NOTICE WILL RESULT IN DELAYS TO THE CONTRACTOR. WORK SHALL NOT CONTINUE UNTIL THE PREVIOUS STAGE IS APPROVED.
 15. PROPERTY LINES AS DEPICTED ON THIS PLAN ARE APPROXIMATE ONLY AND ARE NOT BASED ON A BOUNDARY SURVEY.

- SEWAGE PUMP CHAMBER NOTES:**
1. THE EFFLUENT PUMP IS TO BE AN OS1 SUBMERSIBLE EFFLUENT PUMP (OR ALTERNATE PUMP WHICH REQUIRES PRE-APPROVAL OF DESIGNER). MODEL OF PUMP AS SHOWN ON ACCOMPANYING DETAILS. PUMP TO BE EQUIPPED WITH AN ORIFICE FLOW CONTROL ASSEMBLY INSTALLED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
 2. THE PUMP SYSTEM TO BE INSTALLED IN AN OS1 BIOTUBE VAULT WITHIN THE SEPTIC TANK. A BOLT-ABLE COVER SHALL BE BROUGHT TO GRADE.
 3. A SIGN SHALL BE INSTALLED IN THE VICINITY OF THE MANHOLE COVER WARNING OF THE POTENTIAL ACCUMULATION OF HAZARDOUS SEWER GAS AND THE NEED FOR ADEQUATE VENTING AND AIR MONITORING PRIOR TO WORKING THE SEWAGE PUMP ASSEMBLY.
 4. ALL MATERIALS AND CONSTRUCTION SHALL MEET THE MANUFACTURERS REQUIREMENTS AND APPLICABLE BUILDING, PLUMBING, ELECTRICAL, AND SAFETY CODES. A MANUFACTURERS MAINTENANCE SCHEDULE SHALL BE ACQUIRED AND FOLLOWED.
 5. THE USE OF A BACKUP ELECTRICAL GENERATOR IS STRONGLY RECOMMENDED.
 6. FOR ADDITIONAL INFORMATION - SEE ADDITIONAL DETAILS CONTAINED WITHIN THIS PLAN AND WITHIN MANUFACTURERS PUBLISHED LITERATURE. THE INFORMATION CONTAINED WITHIN THIS PLAN IS INTENDED TO PROVIDE SCHEMATIC REQUIREMENTS ONLY. ACTUAL SHOP DRAWINGS ARE TO BE COORDINATED WITH THE MANUFACTURER. ALL ACCESSORIES SUCH AS AUDIO AND VISUAL ALARMS, FLOAT SWITCHES, LIFT REQUIRING EXTENSIVE MODIFICATION TO THE SYSTEM WILL NOT BE PERMITTED.
 7. THE PUMP SHALL HAVE OVERLOAD PROTECTION TO PREVENT DAMAGE AND SHALL BE ON A SEPARATE CIRCUIT FROM THE ALARM CIRCUIT.
 8. ALL STAGES OF THE PUMP INSTALLATION SHALL BE INSPECTED BY THE DESIGNER. IT IS THE RESPONSIBILITY OF THE INSTALLER TO PROVIDE ADEQUATE NOTICE OF INSPECTION SCHEDULING TO THE DESIGNER. INSTALLER IS RESPONSIBLE FOR HAVING THE TANK FILLED WITH CLEAN WATER IMMEDIATELY FOLLOWING INSTALLATION FOR BUOYANCY AND FOR PUMP & ALARM TESTING.
 9. THE PRESSURE SEWER LINE BETWEEN THE PUMP CHAMBER AND THE DISTRIBUTION BOX SHALL BE CLASS 200 PVC WITH PRESSURE RATED FITTINGS. INSTALL THRUST BLOCKS AT ALL BENDS. MAINTAIN POSITIVE DRAIN BACK TO PUMP CHAMBER.
 10. A VENT WITH INSECT SCREEN IS REQUIRED AS SHOWN ON THE PLAN OR USE A SUITABLE CHARCOAL FILTER UNIT.
 11. NO DRIVING OR PARKING OVER ANY COMPONENT OF THE SYSTEM IS PERMITTED.
 12. AN OS1 NEMA APPROVED CONTROL BOX WITH AUDIO ALARM AND VISUAL ALARM (TO NOTIFY OF HIGH WATER LEVELS IN THE BIOTUBE VAULT) IS TO BE INSTALLED. THE PANEL SHALL BE MOUNTED ON SUITABLE P.T. SUPPORT POSTS AND SHALL BE LOCATED WITHIN VIEW OF THE PUMP ACCESS COVER.
 13. INSTALL A THREADED DISCONNECT ON PUMP DISCHARGE LINE FOR PUMP SERVICING.
 14. A CHECK VALVE AND A WEEPHOLE ARE REQUIRED IN THE PUMP DISCHARGE PRESSURE PIPING. WEEPHOLE LOCATION SHALL ALLOW FOR COMPLETE DRAINING OF PRESSURE PIPE AND SHALL NOT BE LOCATED WHERE WEEPHOLE SPRAY WILL INTERFERE WITH FLOAT OPERATION.
 15. PUMP, FLOAT TREE AND BIOTUBE VAULT SHALL BE REMOVABLE FROM TANK WITHOUT REQUIRING ENTRY INTO TANK.

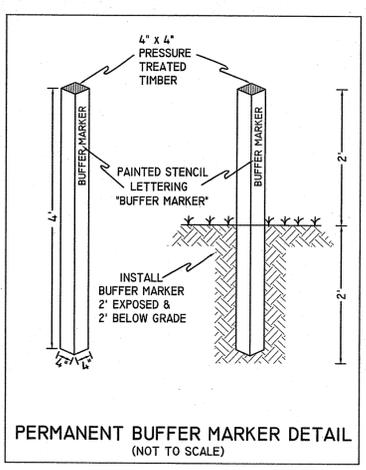
***NOTIFY DESIGNER OF ANY DISCREPANCIES PRIOR TO ANY WORK.
 SITE IS TO BE SERVICED BY A PRIVATE WELL.
 NO OBSERVED EXISTING (OR KNOWN PROPOSED) OWTS'S WITHIN 200' OF PROPOSED WELL EXCEPT AS SHOWN.
 NO OBSERVED EXISTING (OR KNOWN PROPOSED) WELLS WITHIN 200' OF PROPOSED OWTS EXCEPT AS SHOWN.
 NO OBSERVED EXISTING (OR KNOWN PROPOSED) PUBLIC WELLS WITHIN 500' OF PROPOSED OWTS EXCEPT AS SHOWN.
 NO UPGRADIENT DRAINS ALLOWED WITHIN 25' OF PROPOSED OWTS UNLESS RULE 6.23 B (7), (8), AND/OR (9) IS COMPLIED WITH.
 NO DOWNGRADIENT DRAINS ALLOWED WITHIN 50' OF PROPOSED OWTS UNLESS RULE 6.23 B (7), (8), AND/OR (9) IS COMPLIED WITH.
 NO DOWNGRADIENT DRAINS ALLOWED WITHIN 50' OF PROPOSED OWTS UNLESS RULE 6.23 B (7), (8), AND/OR (9) IS COMPLIED WITH.
 BRING SEPTIC TANK COVERS TO GRADE. COVERS TO CONFORM TO RULE 6.27(H) OR SHALL BE 24" DIA. GASKETTED BOLT DOWN PVC OR FIBERGLASS COVERS ON MATCHING RISERS.
 ALL OWTS GRAVITY PIPE TO BE 4" DIAMETER, SDR35 (MIN) PVC PERFORATED OR SOLID AS REQUIRED (EXCEPT BLDG. SEWER). BUILDING SEWERS TO BE 4" SCH40 PVC WITH GLUED, WATERTIGHT JOINTS.



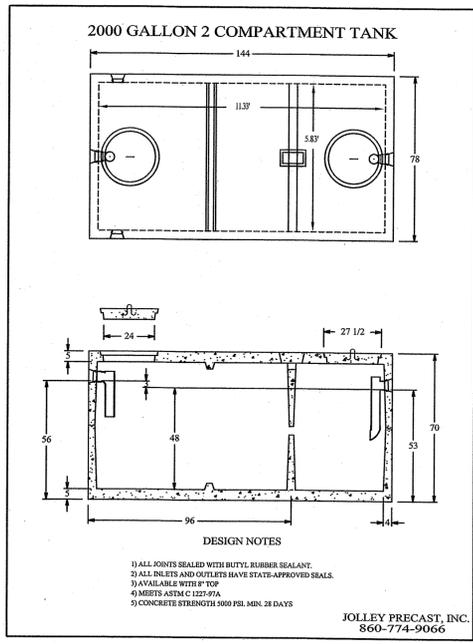
2000 GALLON 2-CHAMBER WITH OS1 BIOTUBE PUMP VAULT = 3 COMPARTMENT
NOT TO SCALE



DOWNSPOUT CONNECTOR OVERFLOW DETAIL
NOT TO SCALE



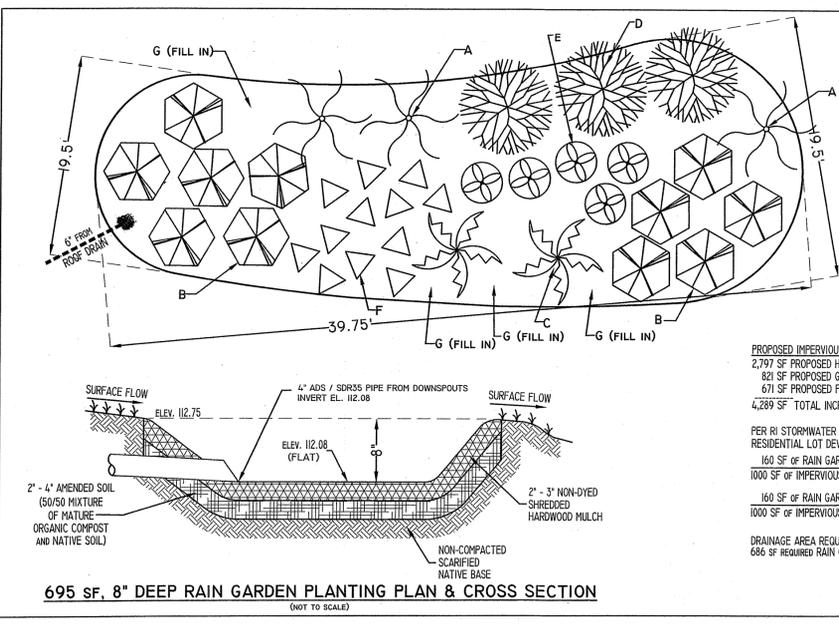
PERMANENT BUFFER MARKER DETAIL
(NOT TO SCALE)



DESIGN NOTES:

- 1) ALL JOINTS SEALED WITH BUTYL RUBBER SEALANT.
- 2) ALL INLETS AND OUTLETS HAVE STATE-APPROVED SEALS.
- 3) AVAILABLE WITH P.T. TOP.
- 4) MEETS ASTM C 1227-97A.
- 5) CONCRETE STRENGTH 5000 PSI. MIN. 28 DAYS.

JOLLEY PRECAST, INC.
860-774-9066



695 SF, 8" DEEP RAIN GARDEN PLANTING PLAN & CROSS SECTION
(NOT TO SCALE)

SYMBOL	PLANT SPECIES	# OF PLANTS
A	SWEET PEPPER BUSH	(3)
B	JOE PYE WEED	(1)
C	SWEET FERN	(2)
D	HIGHBUSH BLUEBERRY	(3)
E	BUTTERFLY MILKWEED	(5)
F	BLUE FLAG IRIS	(12)
G	BEARBERRY	(15) FILL IN

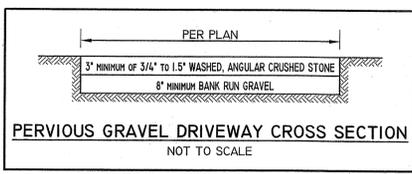
NOTE:
 PLANTS MUST BE INCLUDED ON RI COASTAL PLANT LIST AS ACCEPTABLE FOR RAIN GARDENS. SUBSTITUTIONS WILL BE PERMITTED WITH CONCURRENCE FROM RI CRMC.

PROPOSED IMPERVIOUS COVERAGE:
 2,797 SF PROPOSED HOUSE FOOTPRINT
 821 SF PROPOSED GARAGE
 671 SF PROPOSED FRONT, SIDE & REAR PORCHES
 4,289 SF TOTAL INCREASE IN IMPERVIOUS AREA

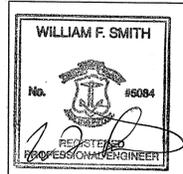
PER RI STORMWATER MANAGEMENT GUIDELINES FOR INDIVIDUAL SINGLE FAMILY RESIDENTIAL LOT DEVELOPMENT, TABLES 7 AND 8, RAIN GARDEN SIZING
 160 SF OF RAIN GARDEN x IMPERVIOUS AREA = REQUIRED SF OF RAIN GARDEN
 1000 SF OF IMPERVIOUS AREA

160 SF OF RAIN GARDEN x 4,289 SF = 686 SF REQUIRED AREA OF RAIN GARDEN
 1000 SF OF IMPERVIOUS AREA

DRAINAGE AREA REQUIRED FOR 8" DEEP RAIN GARDEN, SILTY SOIL = 686 SF REQUIRED RAIN GARDEN AREA (695 SF PROPOSED)



PERVIOUS GRAVEL DRIVEWAY CROSS SECTION
NOT TO SCALE



NO.	REVISIONS:

PROPOSED OWTS NEW CONSTRUCTION PLAN
 PREPARED FOR
STEPHEN LAROCQUE
 ASSESSOR'S PLAT 29 LOT 31-13
 18 FRIENDSHIP FARM LANE
 LITTLE COMPTON, RHODE ISLAND

SCALE: NONE DATE: JUNE 8, 2022

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 EMAIL: Wsmithccc@aol.com

SHEET 2 of 2 JOB#: 02-164