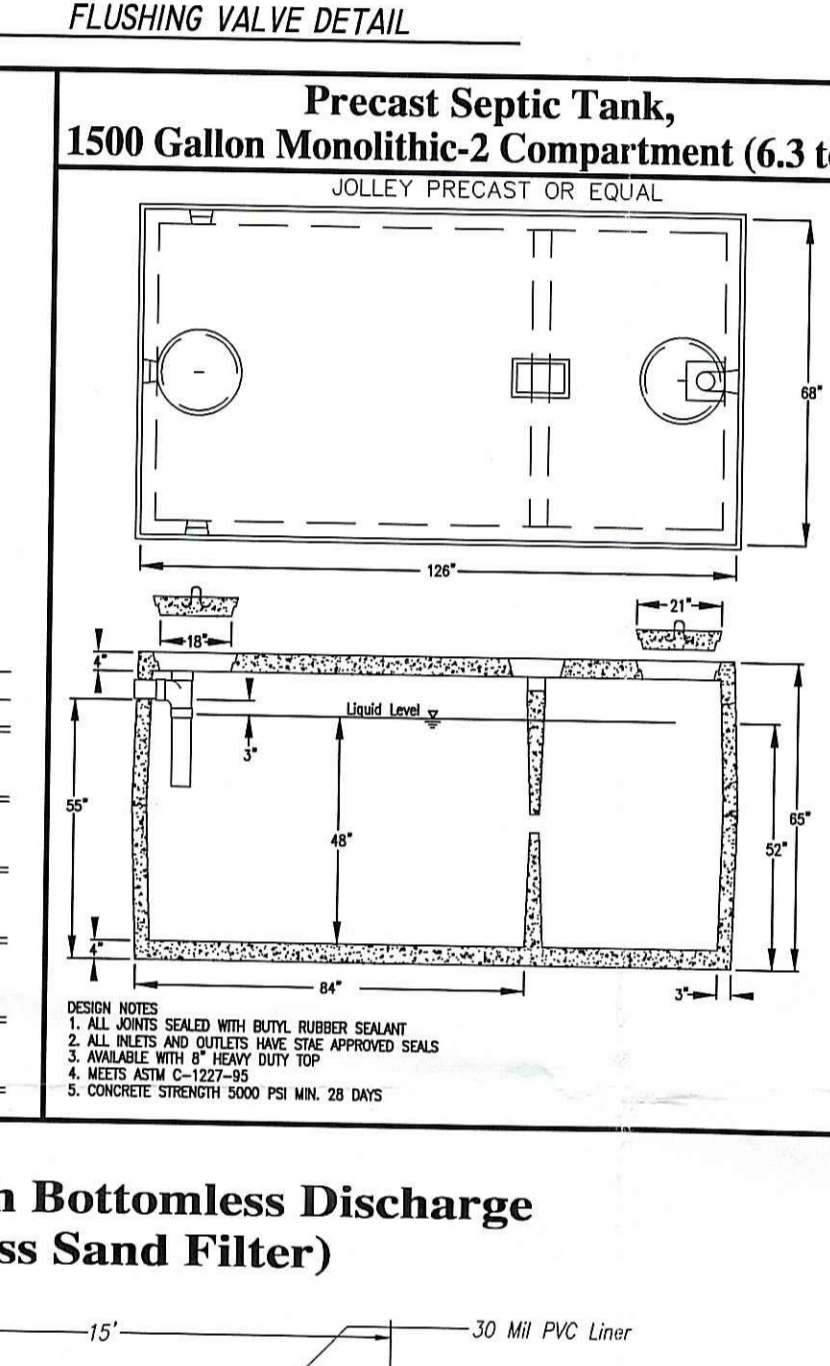
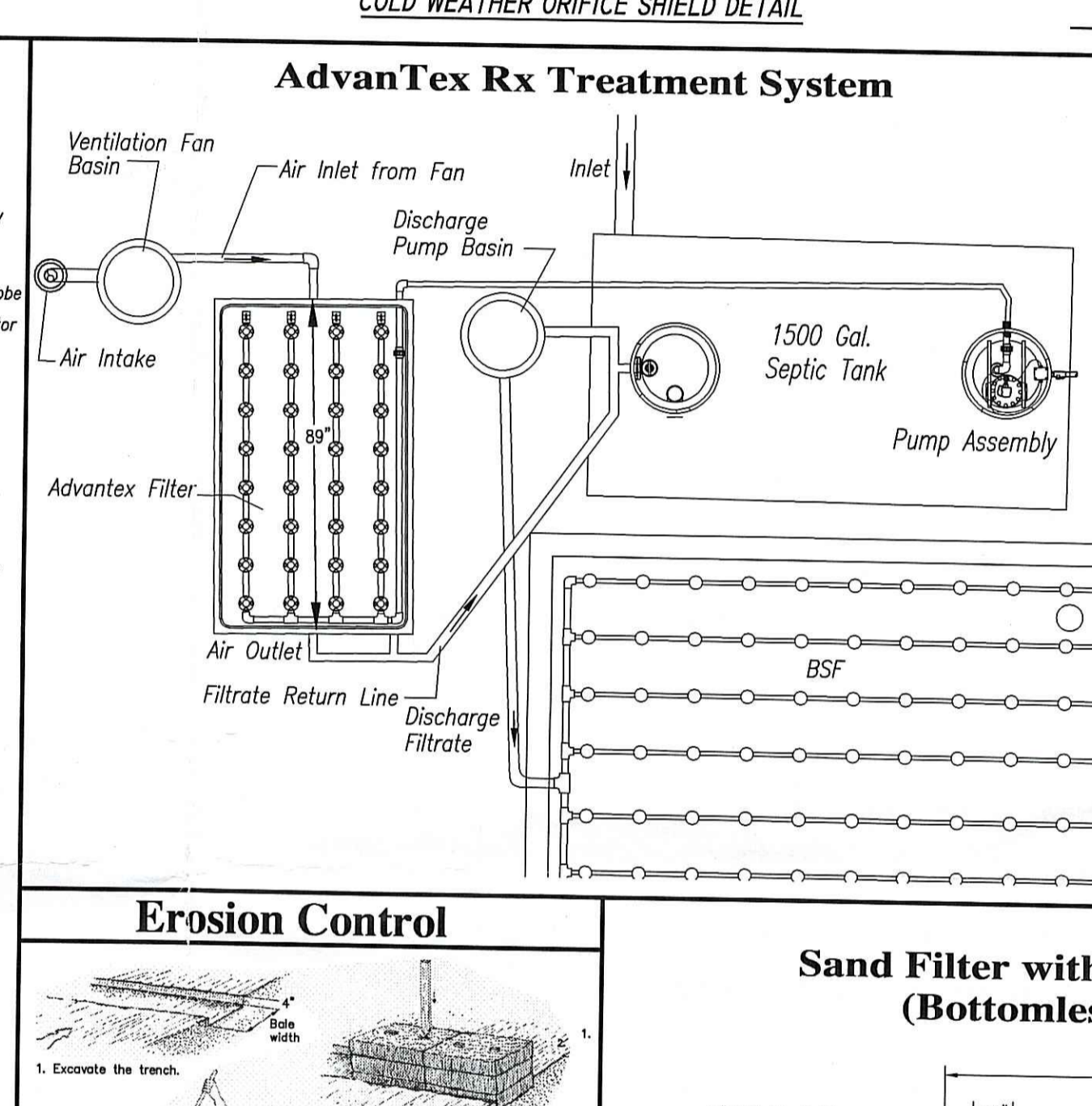
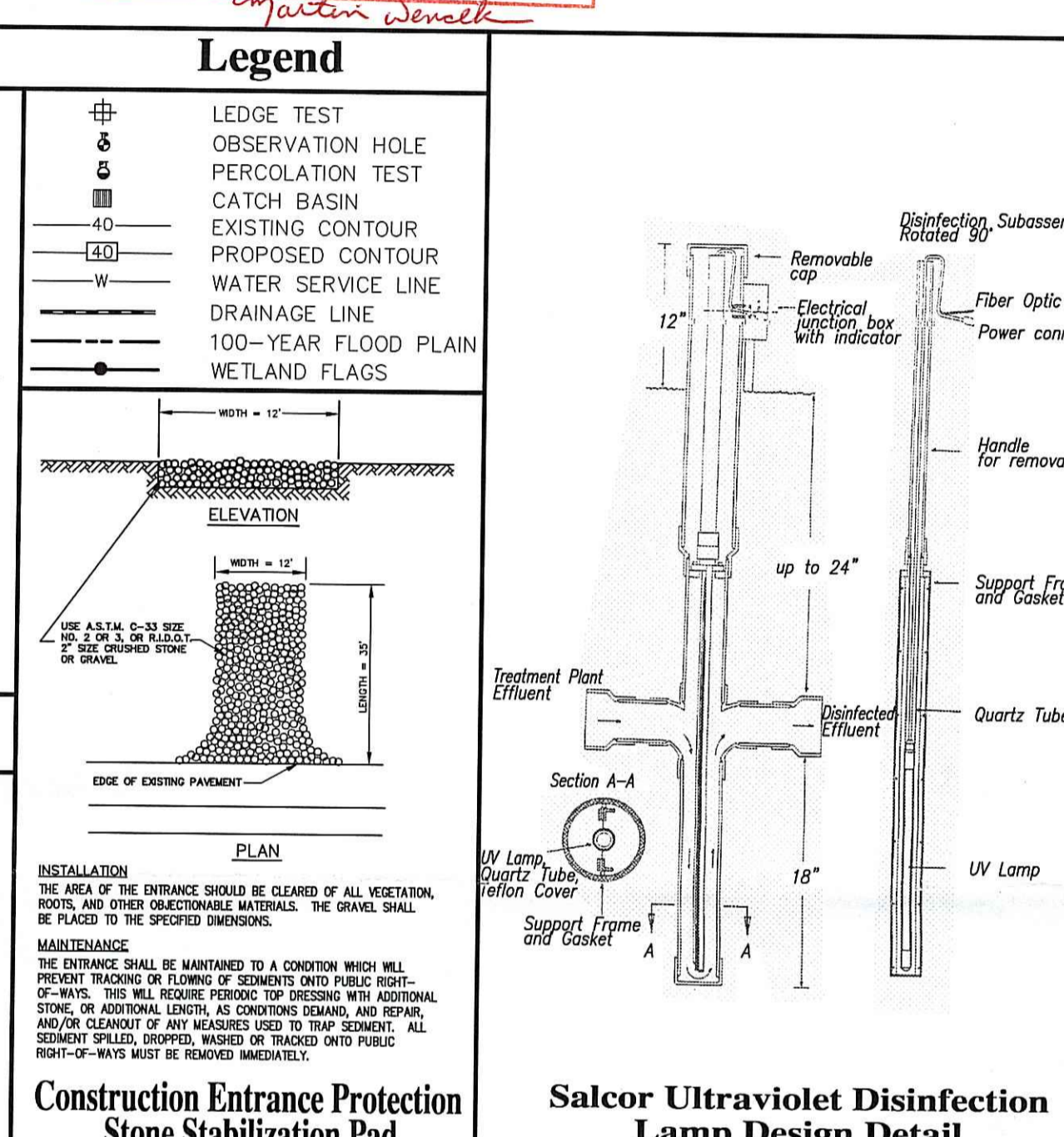
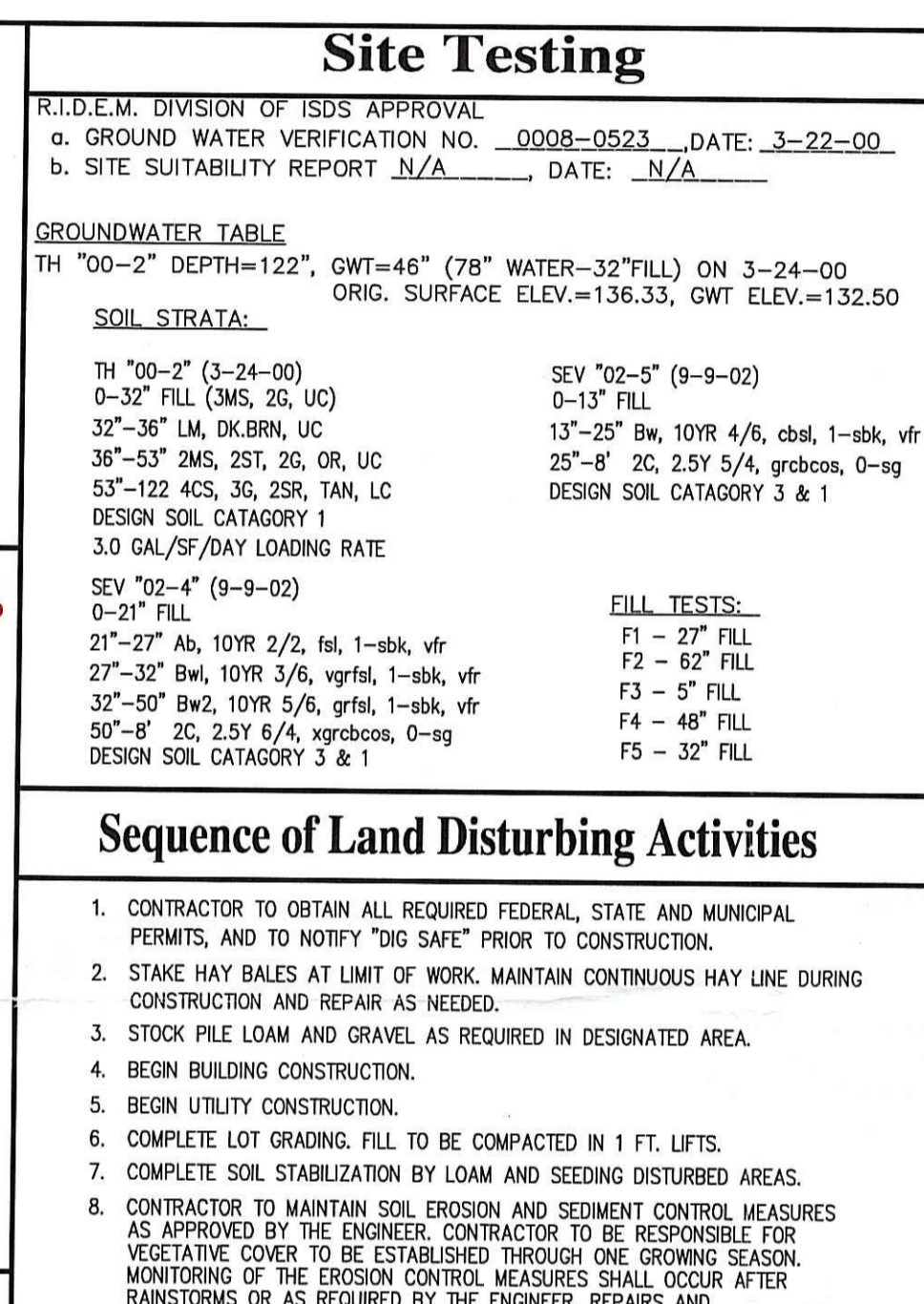
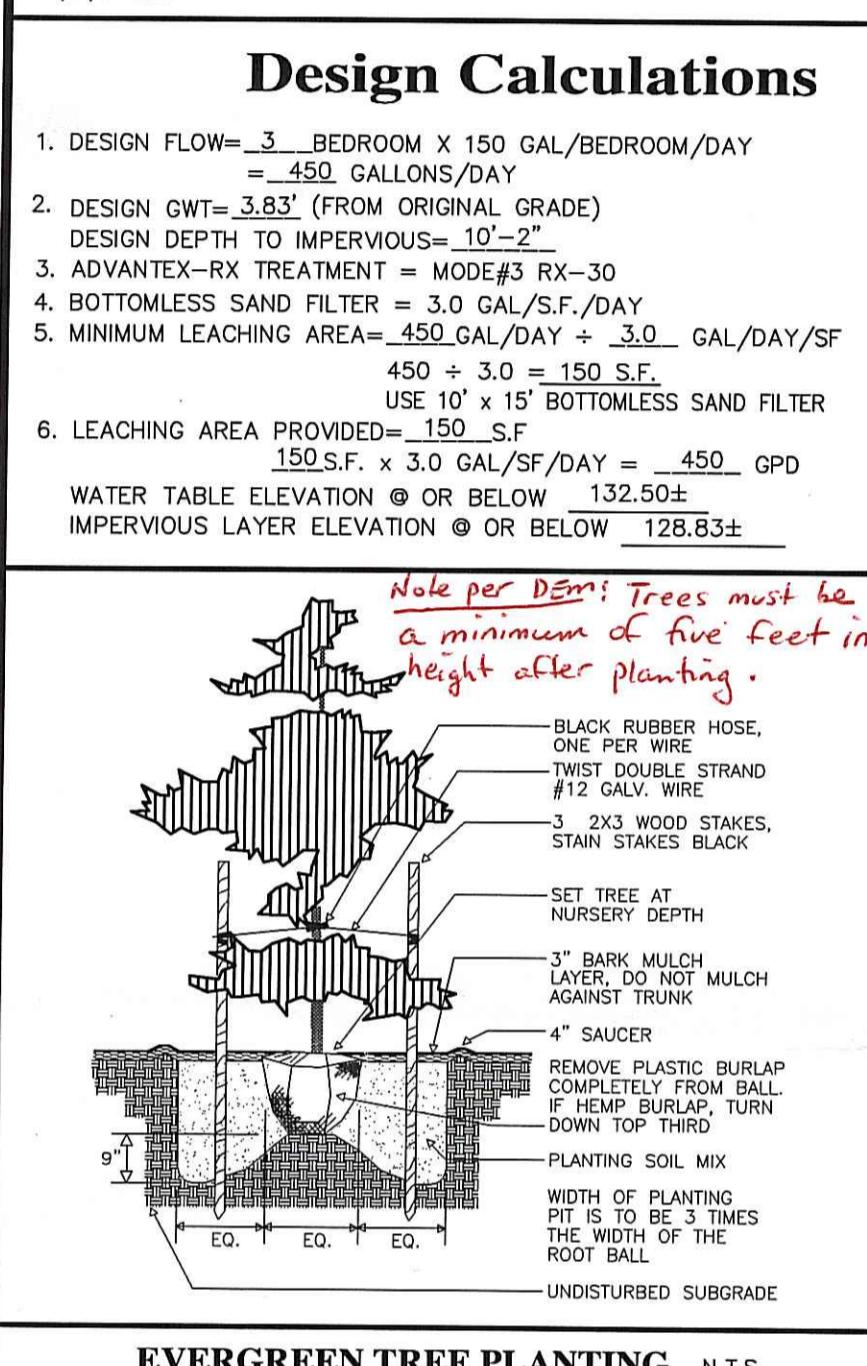


General Notes

- CONSTRUCTION SHALL CONFORM TO THE RHODE ISLAND SPECIFICATIONS SET FORTH IN "DEPARTMENT OF ENVIRONMENTAL MANAGEMENT - RULES AND REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF INDIVIDUAL SEWAGE DISPOSAL SYSTEMS" REV. 6/92 IN ADDITION TO THE STANDARDS CALLED FOR IN THE REGULATIONS, THE FOLLOWING STANDARDS SHALL ALSO APPLY:
 - ALL STONE SHALL BE DOUBLE WASHED. IF DOUBLE WASHED STONE IS NOT AVAILABLE, THE CONTRACTOR SHALL BE ALLOWED TO WASH THE STONE ON THE SITE ONCE IN NO CASE SHALL THE STONE DELIVERED TO THE SITE NOT BE WASHED AT LEAST ONCE BY THE PROCESSOR, AND IN NO CASE SHALL THE STONE WASHED NOT BE DOUBLE WASHED.
 - THE FILL AROUND THE SYSTEM SHALL BE COARSE SAND, OR BANK RUN GRAVEL. IT SHOULD CONTAIN NO MORE THAN 5% FINES AND PREFERABLY NO MORE THAN 2% FINES. FINES ARE ANY PARTICLES WHICH PASS THROUGH NO. 20 SIEVE. WHERE PLACEMENT AND COMPACTION OF THE PERCENTAGE IS SLOWER THAN 2 MIN./INCH, THERE ARE NO DRAINS OR WATERLINES TO BE INSTALLED WITHIN 25' OF LEACHING AREA.
 - NO CARBIDE GENERATORS SHALL BE INSTALLED WITHIN 200' OF THE PROPOSED SYSTEM OTHER THAN SHOWN.
 - THERE ARE NO EXISTING OR PROPOSED DRAINS WITHIN 200' OF THE PROPOSED SYSTEM OTHER THAN SHOWN.
 - THERE ARE NO EXISTING OR PROPOSED SYSTEMS WITHIN 100' OF A PROPOSED OR EXISTING WELL.
 - THERE ARE NO PROPOSED OR EXISTING PUBLIC WELLS WITHIN 500' OF THE PROPOSED SYSTEM.
 - INSTALLER TO STRIP TOP AND SUBSOIL OF LEACHING AREA DOWN TO SUBSTRATA ARE PRESENT IN THE SUBSTRATA, AS DETERMINED BY THE ENGINEER OR FINES R.I.D.E.M. OFFICIALS.
 - INSTALLER TO REMOVE ALL TREES AND SHRUBS FROM LEACHING AREA, AND 10' ON ALL SIDES.
 - BUILDING SEWER PIPE TO BE MINIMUM 4" SCH 40 PVC. ALL SEPTIC SYSTEM PIPING TO BE MINIMUM SCH 40.
 - SEPTIC TANK MANHOLE TO BE AT FINISH GRADE AS PER 1989 DEM REGULATIONS.
 - LIMIT OF RIDEWETLANDS REVIEWED UNDER APPLICATION NO. N/A.
 - INSTALLER TO MAINTAIN INVERT EL. N/A.
 - PROPERTY BOUNDARY LINE SURVEY AND TOPOGRAPHY SURVEY BY DIPRETE ENGINEERING ASSOC., INC. GRANBORO, RI.
 - THERE IS 100 YEAR FLOOD PLAN ON SITE AS PER RIDEM DIVISION OF FRESHWATER WETLANDS SURVEY AND TOPOGRAPHY SURVEY BY DIPRETE ENGINEERING ASSOC., INC. GRANBORO, RI. AUGUST, 2001.
 - DIPRETE ENGINEERING ASSOC., INC. CERTIFIES TO THE SOIL CONDITIONS AND PERCENTAGE ONLY IN AREA TESTED. INSTALLER TO NOTIFY DESIGNER IF SOIL CONDITIONS ARE FOUND DIFFERENT THAN STATED ON SEPTIC APPLICATION.
 - CONTRACTOR TO ENSURE ALL SECTIONS OF R.I.D.E.M. ISDSS DIVISION APPLICATIONS ARE ADHERED TO.
 - BENCH MARK SET WITHIN 150' OF PROPOSED SYSTEM PRIOR TO CONSTRUCTION. ELEV. = 132.50.
 - THIS PLAN IS SUBSTANTIALLY CORRECT IN ACCORDANCE WITH A CLASS IV STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS PLAN IS NOT TO BE CONSTRUED AS AN ACCURATE SURVEY AND MAY BE SUBJECT TO SUCH CHANGES AS AN ACCURATE BOUNDARY SURVEY MAY DISCLOSE.
 - ALL STAGES OF THE I.S.D.S. INSTALLATION MUST BE SUPERVISED BY A R.I.D.E.M. LICENSED CLASS III DESIGNER.
 - OWNER TO OBTAIN SERVICES OF AN OSI MANUFACTURERS REPRESENTATIVE DURING CONSTRUCTION.
 - OWNER TO OBTAIN AND RECORD AN OSI CONTRACT FOR I.S.D.S. MAINTENANCE.



SEDIMENTATION & SOIL CONTROL MEASURES

NONSTRUCTURAL MEASURES

- A STONE STABILIZATION PAD IS LOCATED AT THE SITE ENTRANCE TO REDUCE THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY.
- THE ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR. THE MAINTENANCE SHALL INCLUDE TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTHS AS CONDITIONS DEMAND OR AS DIRECTED BY THE ENGINEER. ALL SEDIMENTS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY, MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
- TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCK PILE LOCATION SHALL BE SUBJECT TO APPROVAL BY THE PROJECT ENGINEER. A SEDIMENT BARRIER SHOULD SURROUND ALL TOPSOIL STOCKPILES.
- HAYBALES OR SILT FENCE SHALL BE INSTALLED DOWNSTREAM OUTSIDE THE LIMITS OF ANY PROPOSED CONSTRUCTION AS SHOWN ON THE SITE SURVEY AND PRIOR TO THE COMMENCEMENT OF THE PROPOSED ALTERATION.
- HAYBALES SHALL BE MAINTAINED BY THE CONTRACTOR. INSPECTION SHALL BE MADE AFTER EACH STORM EVENT AND REPAIR OR REPLACEMENT. CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT WITHIN 48 HOURS OF THE ORIGINAL HEIGHT OF THE BALES BEING FILLED WITH SEDIMENT.
- THE HAYBALES OR SILT FENCE SHALL BE CHECKED WEEKLY BY THE CONTRACTOR FOR UNDERMINING OR DETERIORATION.
- THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION OF NON-STRUCTURAL MEASURES AND FOR SEEING THAT APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.
- REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989, AS A GUIDE.

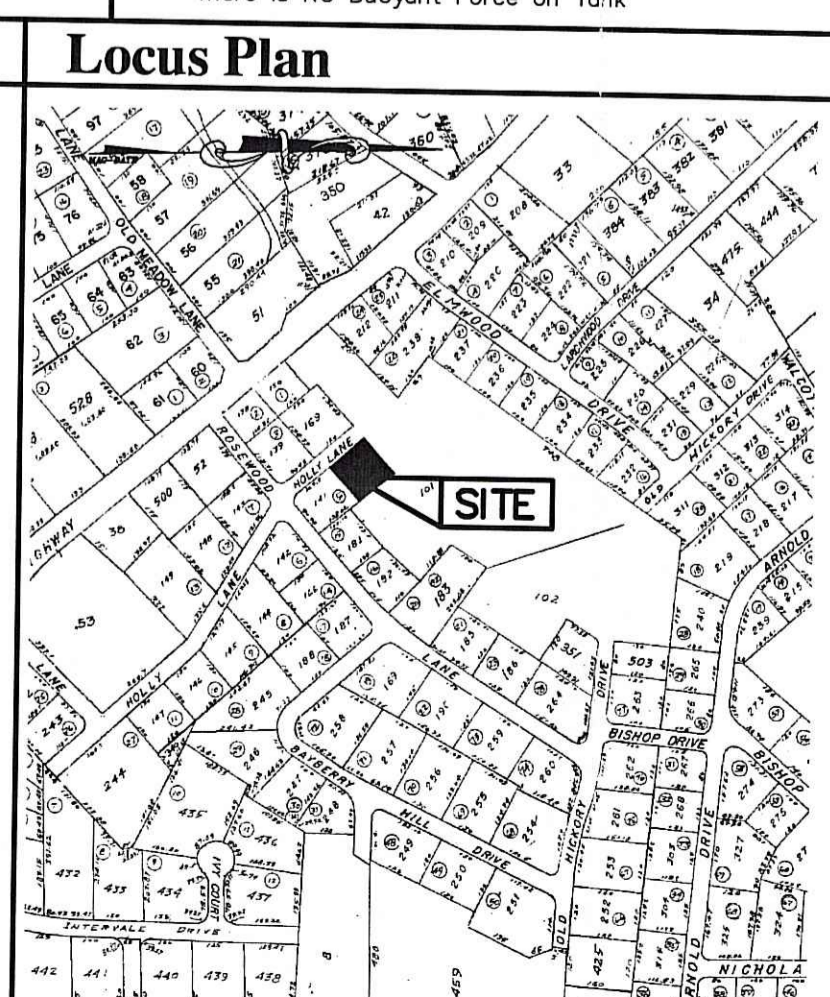
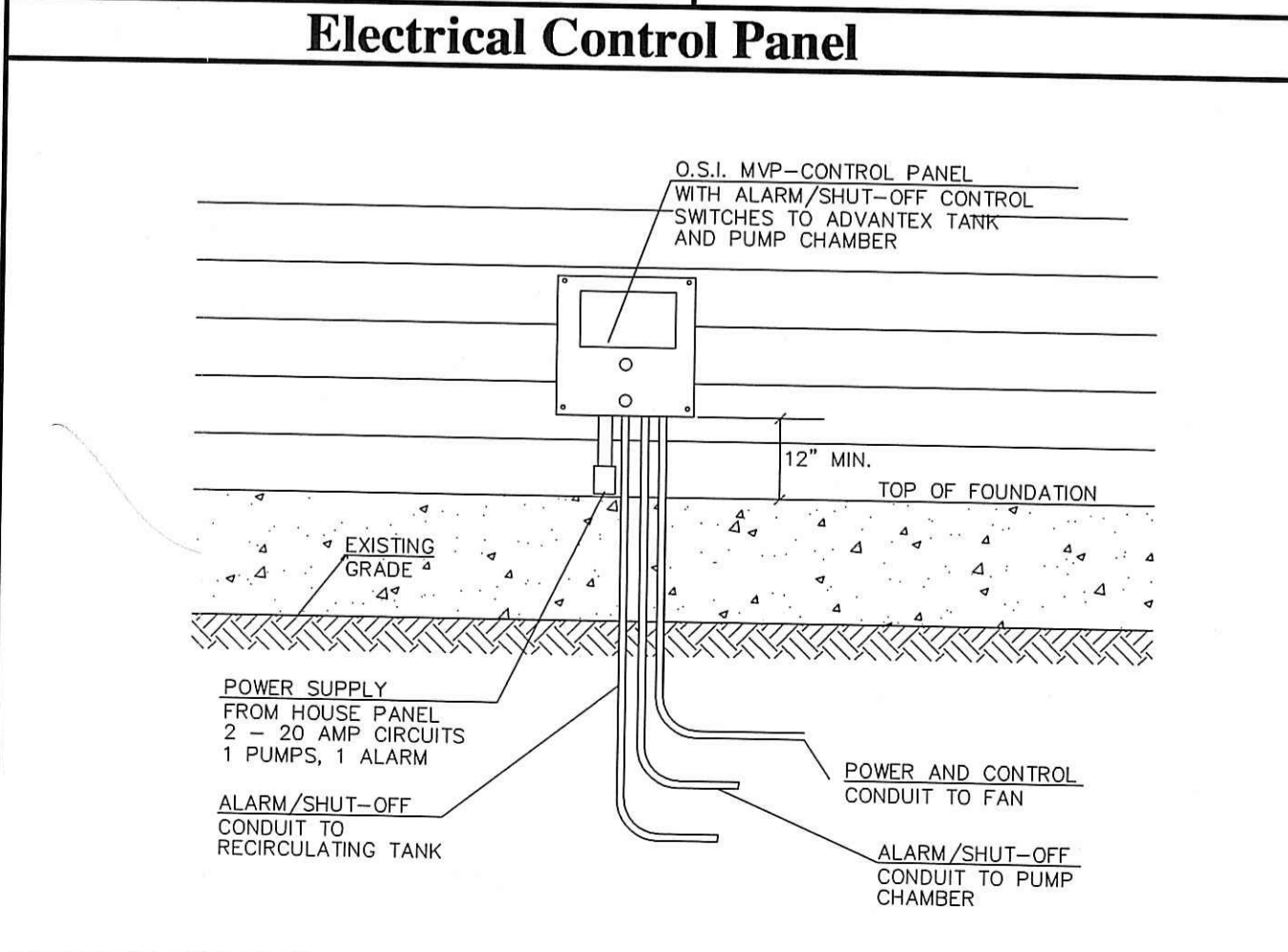
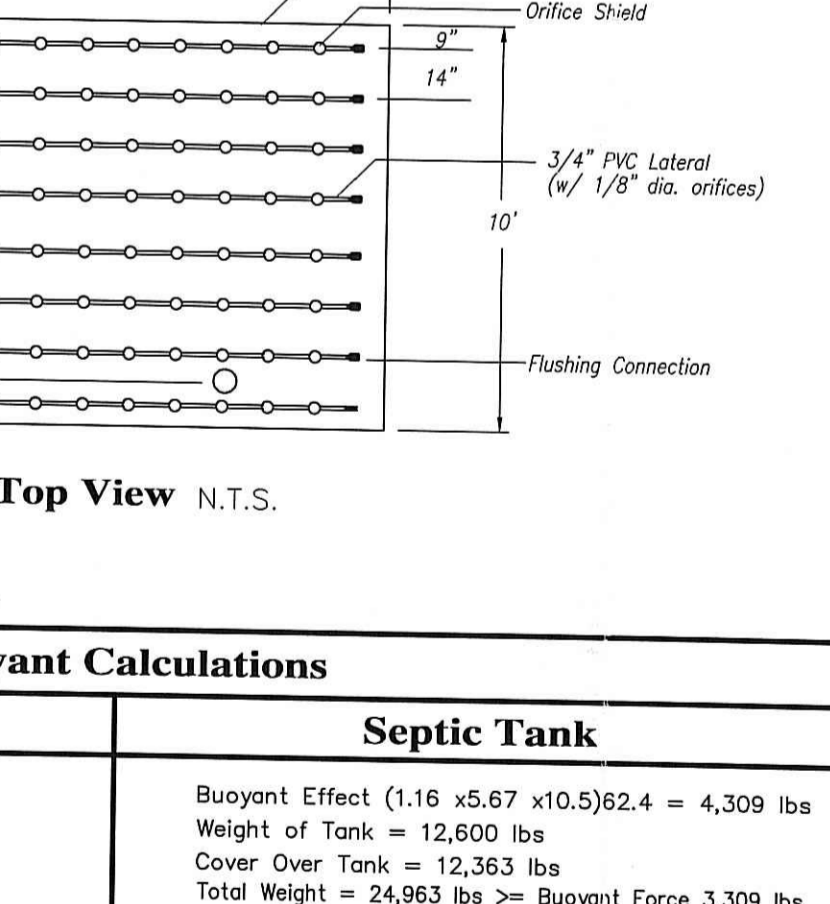
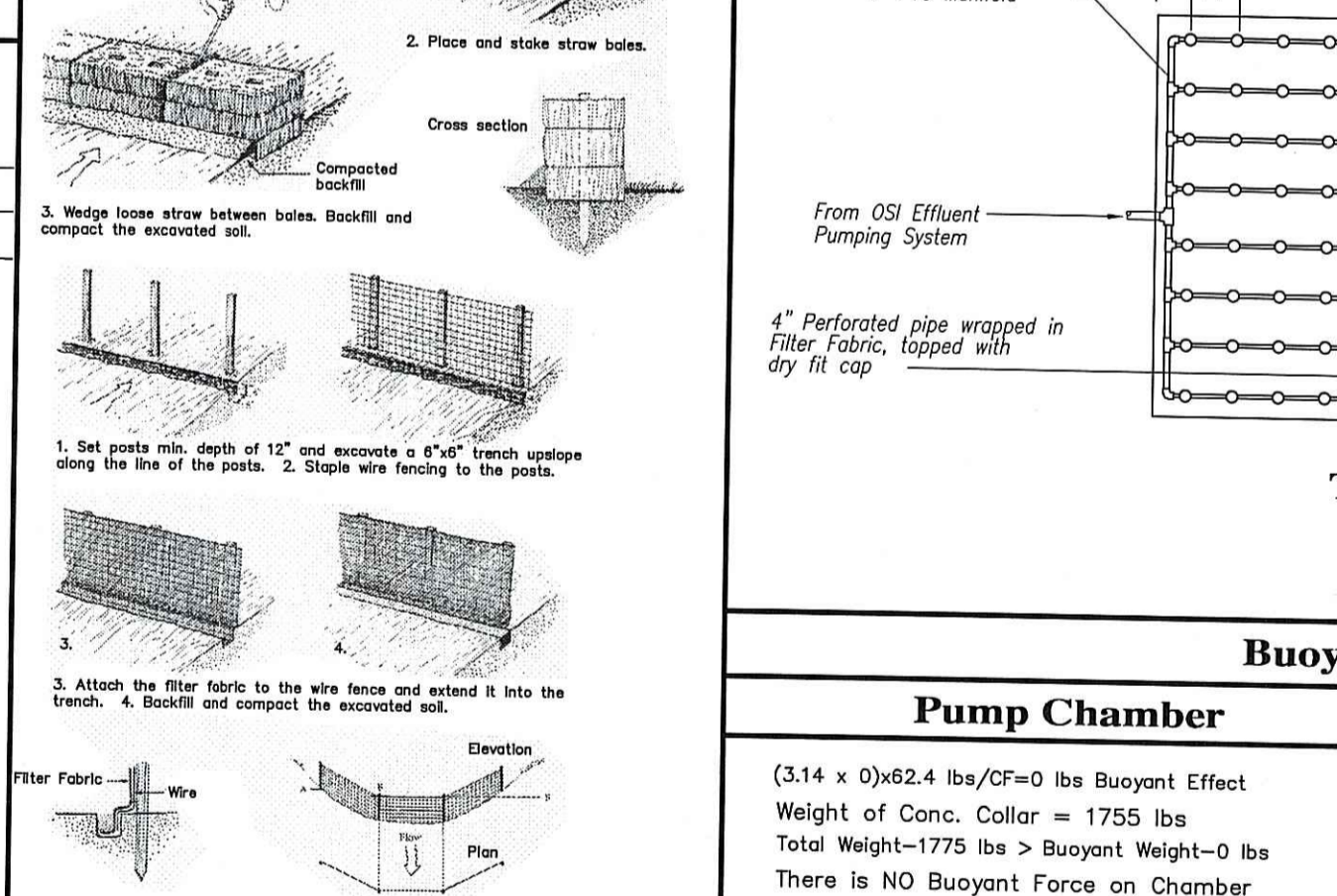
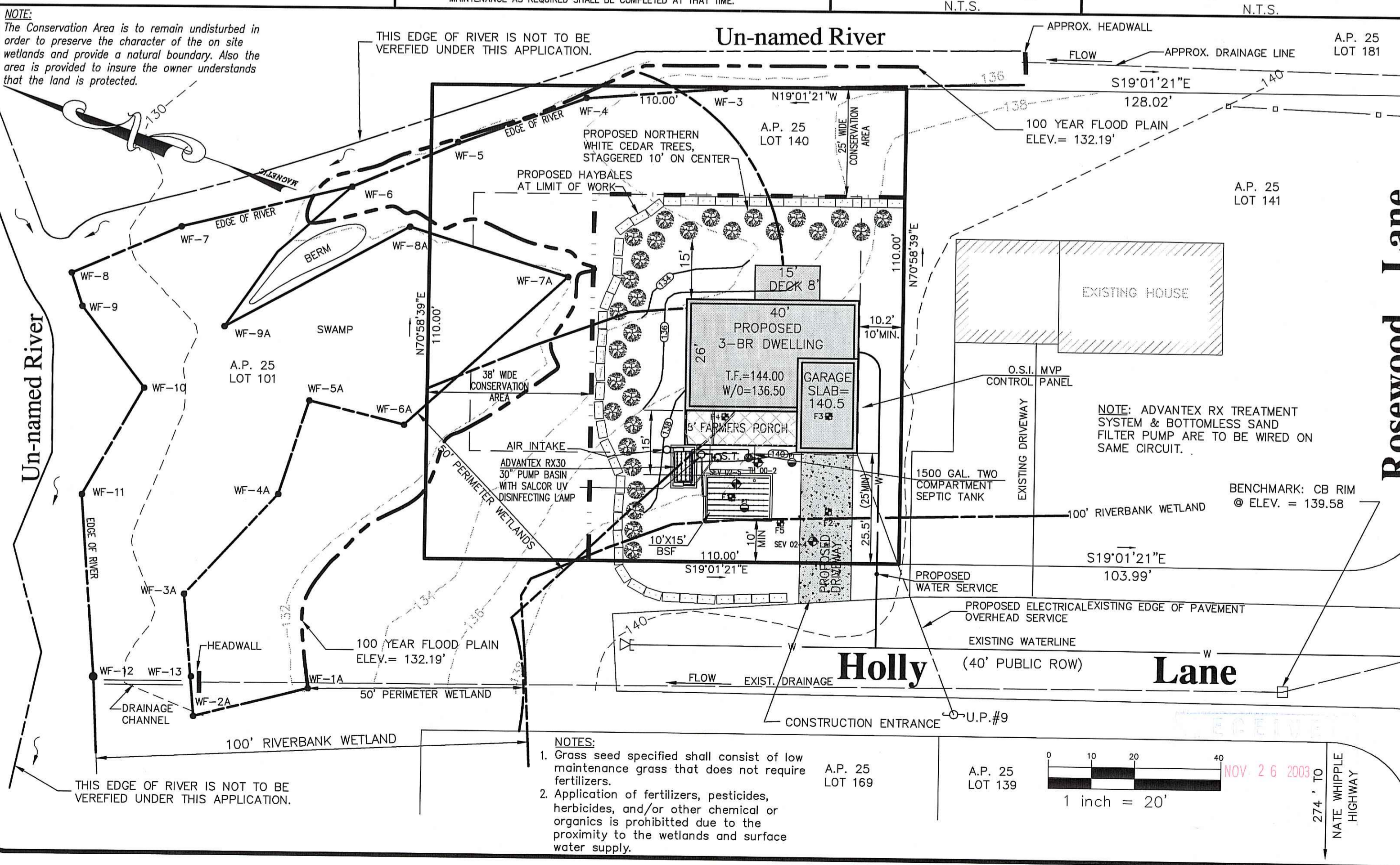
ESTABLISHMENT OF VEGETATIVE COVER

- SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
- ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED OR PROTECTED.
- THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSILICIOUS MATERIAL, STONES OR LIMBS, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH RHODE ISLAND'S STANDARD SPECIFICATION, M.20.
- THE GENERAL DESIGN MIX FOR REGRADING AREAS SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	LSB/AC.
CREeping RED FESCUE	15
KENTUCKY BLUE GRASS	10
COLORADO BLUE GRASS	10
PERENNIAL RYE GRASS	5
- EARLY SPRING OR LATE SUMMER SEEDING IS RECOMMENDED. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS, BEFORE MOWING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
- TEMPORARY TREATMENTS SHALL CONSIST OF HAY, STRAW OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR A FIBER LINING. THESE SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER. HAY OR STRAW SHALL BE IN THE AMOUNT OF 2 TONS/ACR.
- ALL HAYBALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED COVER IS ESTABLISHED.
- ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 202.
- STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAY. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED OR PROTECTED.
- THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE.
- REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989, AS A GUIDE.
- MAXIMUM GRADED SLOPE WITHIN SUBDIVISION TO BE 2:1.

MAINTENANCE: SHORT TERM/LONG TERM

- ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED, PROTECTED, OR STABILIZED. THE CONTRACTOR SHALL CHECK REGULARLY ALL SEEDING AREAS TO SEE THAT A GOOD STAND IS MAINTAINED.
- THE CONTRACTOR MUST REPAIR OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE.
- ALL HAYBALES, TEMPORARY TREATMENTS (HAY, STRAW, ETC.) AND TEMPORARY PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED COVER IS ESTABLISHED.
- THE CONTRACTOR SHALL MAINTAIN ALL TOP SOIL STOCKPILES AND SEDIMENT BARRIERS THROUGHOUT CONSTRUCTION. EXTREME CARE SHALL BE TAKEN TO ENSURE THAT SEDIMENTS DO NOT SPILL OVER THE SEDIMENT BARRIER.
- THE HAYBALES OR SILT FENCE SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. CONTRACTOR SHALL REPAIR OR REPLACE THE HAYBALES AS NECESSARY. CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE BALES BECOMES FILLED IN WITH SEDIMENTS.
- THE STONE STABILIZATION PAD AT THE SITE ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR. THE MAINTENANCE SHALL INCLUDE TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTHS AS CONDITIONS DEMAND OR AS DIRECTED BY THE ENGINEER. ALL SEDIMENTS SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.



CERTIFICATIONS:

- THIS PLAN AND ALL IMPROVEMENTS CONFORM TO ALL STANDARDS OF THE STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS, BOARDS OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS.
- THIS PLAN IS SUBSTANTIALLY CORRECT IN ACCORDANCE WITH CLASS IV STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

CHRISTOPHER A. DUHAMEL
 No. 1844
 PROFESSIONAL LAND SURVEYOR

LEONARD R. BRADLEY, JR.
 No. 6610
 REGISTERED PROFESSIONAL ENGINEER CIVIL

DEA NO. 784-001

DATE: July, 2001
 COPYRIGHT
 TWO STAFFORD COURT
 CRANSTON, RI 02920
 (401) 943-1000
 SCALE: 1" = 20'
 DESIGNED: ER
 DRAWN: MAB
 I.S.D.S. Design - Bottomless Sand Filter
 A.P. 25, LOT 140
 HOLLY LANE
 CUMBERLAND, RHODE ISLAND
 PREPARED FOR:
 JOHN & KATHLEEN FARRELL
 10 METCAL DRIVE
 CUMBERLAND, RHODE ISLAND 02864
 401-334-5838
 SHEET 1 OF 1