

**LOCUS MAP**  
NOT TO SCALE

"Copy of permit and Operation/Maintenance contract must be filed in land evidence records prior to commencement."

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
OWTS & FRESHWATER WETLANDS  
JOINT PERMIT APPROVAL  
DATE: 0715 10/15/15  
APPROVED: [Signature] DATE: 3/10/15  
No Changes Allowed Without RIDEM Approval  
Approved Plans/Permit Must Be Kept at Construction Site



APPROXIMATE WELL LOCATION

A.P. 18, LOT 341

APPROXIMATE OWTS LOCATION

**ALTERNATE BENCHMARK:**  
APPROXIMATE LOCATION  
NAIL IN AN 18" OAK TREE  
ELEV. = 396.28

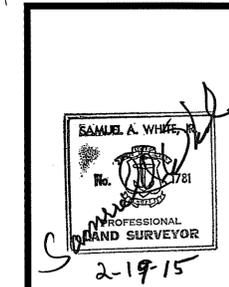
**BENCHMARK:**  
APPROXIMATE LOCATION  
NAIL SET IN 14" BEECH TREE  
ELEV. = 363.63

EXISTING OVERFLOW PIPE APPROXIMATE LOCATION  
PROPOSED 20x25' RAIN GARDEN BOTTOM ELEV.=375.0 (SEE DETAIL ON SHEET 3)

PROPOSED 20x25' RAIN GARDEN BOTTOM ELEV.=375.0 (SEE DETAIL ON SHEET 3)

A.P. 18, LOT 339

A.P. 18, LOT 340  
10.02± ACRES



**PLAN OF PROPOSED ON-SITE WASTE WATER TREATMENT SYSTEM (OWTS) AND PROPOSED SITE ALTERATIONS FOR SUBDIVISION LOT 13, WHITE OAK ESTATES ASSESSORS PLAT 18, LOT 340 SITUATED ON BLOSSOM CIRCLE, GLOCESTER, RHODE ISLAND**

Prepared For: MR. & MRS. BRIAN STEERE  
SCALE: 1" = 30' DATE: JAN. 30, 2015

**ZONING - A3**

- \* SETBACKS**
- FRONT 75'
  - SIDE 50'
  - REAR 100'
- \* OWNER SHALL VERIFY PRIOR TO CONSTRUCTION AND OBTAIN ALL NECESSARY VARIANCES/EXCEPTIONS PRIOR TO CONSTRUCTION.

**LEGEND**

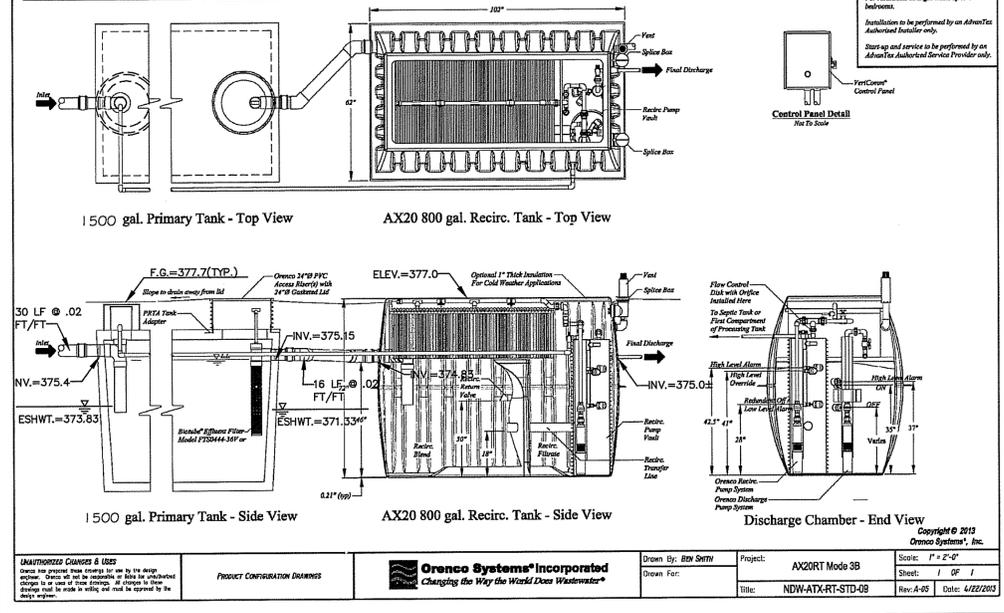
- 372 --- EXISTING CONTOUR
- (380) --- PROPOSED CONTOUR
- ⊕ SOIL EVALUATION LOCATION
- ⊕ GROUND WATER TEST LOCATION
- LIMIT OF DISTURBANCE/COMPOST SILT SOCK
- L.O.D./COMPOST SILT SOCK AND SILT FENCE
- W PROPOSED WATER LINE
- PROPERTY LINE
- WF A-1 FLAGGED WETLAND EDGE
- WETLAND SETBACK LINE
- (377x5) PROPOSED SPOT GRADE
- ⊕ EXISTING BOULDER WALL
- BUILDING SETBACK LINE
- ⊕ PROPOSED BLOCK WALL w/CAPSTONE



**REFERENCES:**  
SOIL EVALUATION/SITE APPLICATION NUMBER 1413-1621, PREVIOUS ISDS APPLICATION NUMBER 0913-1016  
SUBDIVISION REVIEW NUMBER S13-54, PREVIOUS FRESHWATER WETLAND APPLICATION NUMBER 06-0084

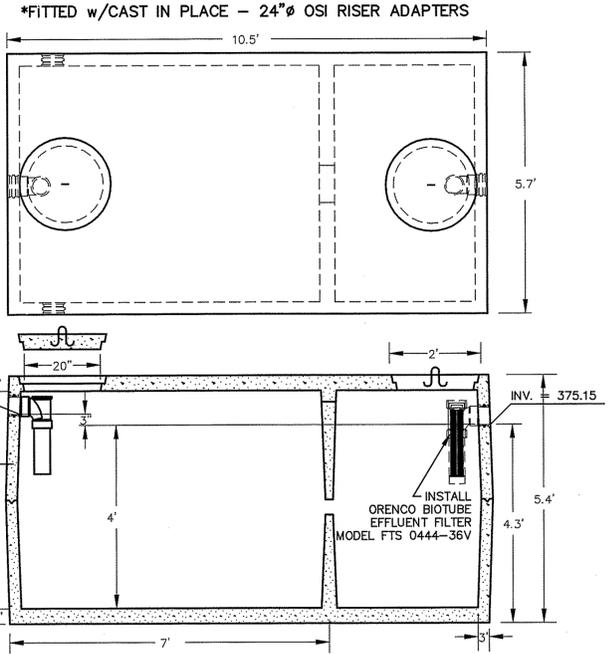


**AX20RT Treatment System - Pump Discharge**



O.G. @ ADVANTEX = 375.0± - 44" = 371.33 ESHWT.  
 O.G. @ SEPTIC TANK = 377.5 - 44" = 373.83 ESHWT.

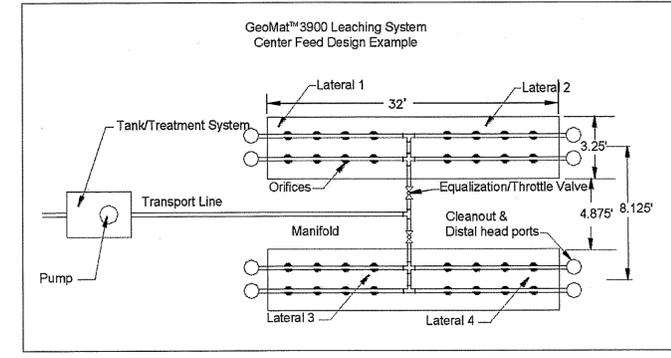
**1500 GALLON\* TWO COMPARTMENT SEPTIC TANK**



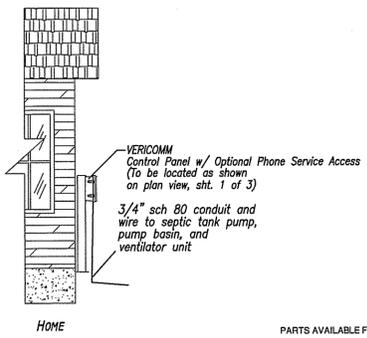
- 1) ALL JOINTS SEALED WITH BUTYL RUBBER SEALANT.
- 2) ALL INLETS AND OUTLETS HAVE STATE-APPROVED SEALS.
- 3) AVAILABLE OUTLET FILTER SHOWN
- 4) MEETS ASTM C 1227-97A
- 5) CONCRETE STRENGTH 5000 PSI. MIN. 28 DAYS

FILE: 15002c

JOLLEY PRECAST, INC.  
 860-774-9066



- Septic Do's and Don'ts**
- Do's:**
- Conserve water to reduce the amount of wastewater that must be treated and disposed.
  - Repair any leaking faucets and toilets.
  - Only discharge biodegradable wastes into system.
  - Restrict garbage disposal use.
  - Divert downspouts and other surface water away from your drain field & tanks.
  - Keep your septic tank cover accessible for tank inspections and pumping.
  - Have your septic tank pumped regularly and checked for leaks and cracks.
  - Call a professional when you have problems.
  - Compost your garbage or put it in the trash.
- Don'ts:**
- Flush sanitary napkins, tampons, condoms, cigarette butts, diapers, wipes and such products into your system.
  - Dump solvents, oils, paints, paint thinner, disinfectants, pesticides or poisons down the drain.
  - Dig in your drain field or build anything over it.
  - Plant anything other than grass over your drain field.
  - Drive over your drain field or compact it in any way.



**GEOMATRIX**

Geomatrix Systems, LLC  
 114 Mill Rock Road East  
 Old Saybrook, CT 06475  
 860-510-0730 - phone  
 860-510-0735 - fax  
 888-SoilAir - toll free  
 info@geomatrixsystems.com  
 www.geomatrixsystems.com

PARTS AVAILABLE FROM:

Orenco Systems, Inc.  
 614 ARMY AVENUE  
 SOUTHERN, OREGON  
 97479-9012

TELPHONE:  
 (541) 459-4449

FACSIMILE:

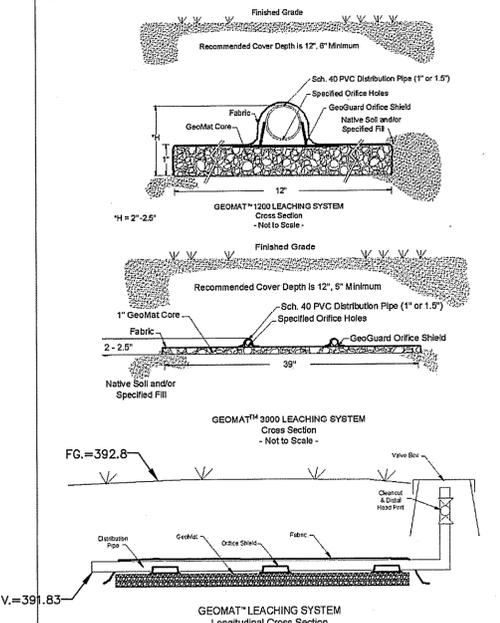
**O.W.T.S. NOTES: CIRCLE APPLICABLE NUMBERS**

1. All other design, construction and maintenance requirements, or additional terms of approval whether noted herein, or not, shall be in conformance with, Rules Establishing Minimum Standards Relating To Location, Design, Construction And Maintenance Of Onsite Waste Water Treatment Systems, July 16, 2014 by the R.I. Dept. Of Environmental Management, Authority in accordance with Chapter 42-35 pursuant to Chapter 42-17.1, 5-56, 5-56.1, 23-19.5 and 23-24.3 of the General Laws Of Rhode Island, 1956 as amended.
2. Maintain invert elevation 391.83 for 5' minimum around OWTS, beyond 10' a 3:1 slope or flatter must be maintained to 25' minimum or until the toe of slope returns to the elevation of the original grade. The toe must be 5' minimum from any property line.
3. See O.W.T.S. specifications attached. Comply with any additional terms of approval as required by R.I.D.E.M.
4. Clear all trees and stumps within 10' of OWTS.
5. There shall be no foundations w/basements, water supply lines, upgradient subsurface, foundation or storm drains within 25' of the leach field, nor any down gradient or side gradient drains within 50' of the leach field, unless otherwise permitted by the requirements of Rule 22 Minimum Setback Distances within 25' of OWTS.
6. There shall be no in-ground pools within 25' or any above ground pools within 10' of the proposed disposal area.
7. Cast iron pipe or equal from building to septic tank. SDR35 PVC pipe to be used in OWTS unless otherwise noted.
8. All stages of OWTS installation must be supervised by system designer.
9. All soil containing boulders or other obstacles, at least 12" below the proposed disposal system, and 0" on all sides, shall be stripped and backfilled with ASTM C-33 sand to the bottom of the GeoMat. Strip field excavation shall be into ground water, the bottom and all sides shall be scarified.
10. Benchmark to be set within 150' of the proposed O.W.T.S. in an area where it will not be disturbed during construction.
11. There are no known drinking water wells existing or proposed within the setback distances from the leaching area specified in Table 22.5 plus one hundred (100') feet.
12. Proposed wells are shown in suggested location. Placement of wells shall conform to applicable R.I.D.E.M., O.W.T.S. and Well Regulations.
13. The well proposed on the subject property requires a variance from the R.I.D.E.M.'s "Rules and Regulations Governing the Enforcement of Chapter 46-13.2 relating to the Drilling of Drinking Water Wells".
14. There are no known existing or proposed public drinking water supply wells within 500' of the proposed disposal system.
15. There are no known existing or proposed public sewers within 200' of the proposed disposal system unless otherwise noted.
16. There are no known water courses, wetlands or drains within two hundred (200') feet of the proposed OWTS unless otherwise shown.
17. The proposed OWTS lies within the watershed of a public drinking water supply or the critical resource area as identified in Rule 38.
18. Any proposed silt fence/staked haybales/soil erosion controls shall be installed prior to any site disturbances associated with OWTS installation.
19. The OWTS installer shall install GeoMat "3900" components in strict accordance with the R.I. Design Manual for "GeoMat 1200 & 3900 Leaching Systems. Contact Geomatrix Systems, LLC @ 860-510-0730 for assistance.
20. The septic tank shall be provided with an inlet tee or baffle, an outlet tee equipped with an approved effluent filter. All other access covers shall be brought to within 12" of grade. Set covers to divert runoff. The minimum cover over the septic tank outlet invert shall be 18" with a maximum cover of 42" unless otherwise documented in accordance with rule 26.13. The tank is to be pumped out as needed and upon pumping out the tank the effluent filter is to be removed, rinsed off and reinstalled.

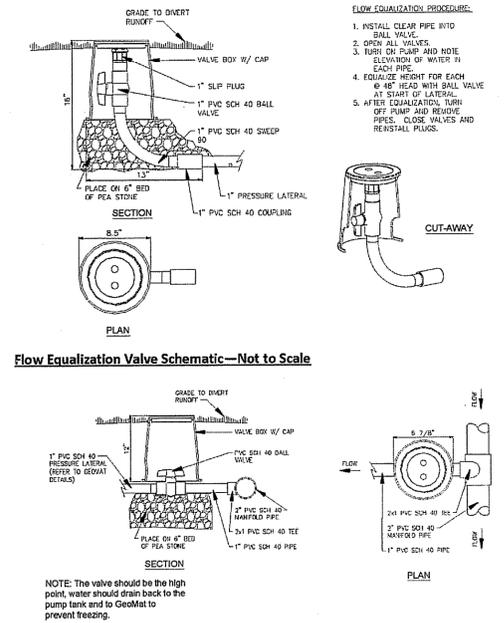
**NOTES:**

1. THE SEPTIC TANK SHALL BE A WATERTIGHT, 1,500 GAL. 2-COMPARTMENT TANK WITH 24" MIN. DIAMETER INLET AND OUTLET ACCESS RISERS. RISERS SHALL BE PVC WITH SECURED FIBERGLASS LID. IF CONCRETE TANK IS USED, ABS TANK ADAPTER SHALL BE CAST INTO PLACE. TANK SHALL BE VACUUM TESTED WHEN CONSTRUCTED OR WATER TESTED/VACUUM TESTED ON SITE. (CONCRETE TANK MAY BE PURCHASED FROM JOLLEY PRE CAST, INC. AT 1-800-582-4638.)
2. THE CONTRACTOR MUST FOLLOW ALL ITEMS CIRCLED IN THE LOWER RIGHT HAND AREA OF THE OWTS APPLICATION LABELLED--IMPORTANT AND NOTIFY ENGINEER DURING THE DIFFERENT STAGES OF CONSTRUCTION TO ALLOW THE ENGINEER TO OBSERVE COMPLIANCE WITH THE APPROVED PLANS (AS REQUIRED BY DEM).
3. THE CONTRACTOR MUST NOTIFY LICENSED DESIGNER 48 HOURS PRIOR TO START OF CONSTRUCTION WITH VALID INSTALLERS LICENSE NUMBER. DESIGNER MUST NOTIFY DEM 24 HOURS PRIOR TO START OF CONSTRUCTION IN ACCORDANCE WITH SD 27.00 (g).
4. IF CONTRACTOR ENCOUNTERS UNANTICIPATED CONDITIONS DURING CONSTRUCTION WHICH INDICATE THAT THE SYSTEM CANNOT BE INSTALLED IN ACCORDANCE WITH THE APPROVED DESIGN, INSTALLER SHALL STOP CONSTRUCTION AND NOTIFY THE LICENSED DESIGNER RESPONSIBLE FOR WITNESSING AND INSPECTING THE INSTALLATION IN ACCORDANCE WITH SD 27.00 (c).
5. THE LICENSED DESIGNER SHALL WITNESS AND INSPECT ALL ASPECTS OF THE INSTALLATION, KEEP RECORDS, PREPARE THE CERTIFICATE OF COMPLETION AND PROVIDE O & M INFORMATION AND RECOMMENDATIONS TO THE OWNER, IN ACCORDANCE WITH SD 27.00 (h) THROUGH (m).
6. THE DESIGNER IS NOT RESPONSIBLE FOR ANY NEGLIGENT ACT OF OMISSION OF A USER OF AN OWTS, INCLUDING BUT NOT LIMITED TO, FAILURE TO PROPERLY USE AND MAINTAIN THE SYSTEM, WHICH CAUSES DAMAGE TO THE OWTS.
7. PUMPS SHALL BE AS MANUFACTURED BY ORENCO SYSTEMS, INC. OR APPROVED EQUAL. PUMP BASIN PUMP TO DISPOSAL SYSTEM - PF 3005
8. CONTRACTOR TO NOTIFY ENGINEER DURING THE DIFFERENT STAGES OF CONSTRUCTION TO ALLOW THE ENGINEER TO OBSERVE COMPLIANCE WITH THE APPROVED PLANS (AS REQUIRED BY DEM).
9. ALL TANKS AND APPURTENANCES SHALL BE CONSTRUCTED SUCH THAT ALL ELEMENTS ACT AS A SINGLE WATERTIGHT UNIT & SHALL BE CONSTRUCTED ACCORDING TO ASTM STANDARD C-1227-97A OR ANY SUPERSEDING UPGRADING OF THIS STANDARD. ALL RISER ADAPTERS SHALL BE CAST IN PLACE DURING TANK MANUFACTURING. ALL INLETS AND OUTLETS SHALL BE CAST IN PLACE WITH CAST-A-SEAL OR EQUIVALENT W/STAINLESS STEEL ADJUSTABLE CLAMP.
10. THE PROPOSED SEPTIC TANK SHALL BE SEALED TO ENSURE WATER TIGHTNESS AND SHALL BE A TWO COMPARTMENT MONOLITHIC TANK WHICH CAN BE PURCHASED FROM JOLLEY PRE CAST, INC. @ 1-800-582-4638 OR EQUAL.
11. THE INSTALLER SHALL PROVIDE DESIGNER WITH MATERIAL RECEIPTS FOR ALL CONSTRUCTION MATERIALS PRIOR TO DESIGNER ISSUING CERTIFICATE OF CONSTRUCTION.
12. SAND MEDIA BELOW GEOMAT: SHALL BE HOLLISTON SAND & GRAVEL OR EQUIVALENT ASTM-33 (O-DAMP) SAND. LESS THAN 1% PASSING THE 10 SIEVE WITH AN EFFECTIVE SIZE OF .25 - .40mm AND WITH A UNIFORMITY COEFFICIENT OF 2.0±. (HOLLISTON SAND & GRAVEL; 401-766-5010) CONTRACTOR TO SUPPLY ENGINEERING w/SAMPLES OF ALL MEDIA TO BE USED IN THE SAND FILTER. CONTRACTOR SHALL ALSO SUPPLY ENGINEER WITH SIEVE ANALYSIS SHOWING THAT THE FILTER MEDIA MEETS THE CRITERIA AS SHOWN ON PLAN.
13. IT IS RECOMMENDED THAT ATLANTIC SOLUTIONS, LTD. OF PORTSMOUTH, RI BE CONTRACTED TO ASSIST THE INSTALLER WITH SYSTEM INSTALLATION. ATLANTIC SOLUTIONS, LTD., IS A REPRESENTATIVE OF BOTH ORENCO AND GEOMATRIX AND CAN PROVIDE PRODUCTS AS WELL AS THE REQUIRED OPERATIONS AND MAINTENANCE SERVICES.

**GeoMat Schematics—Not to Scale**



**Distal Head Schematic—Not to Scale**



**"GEOMAT" OWTS DESIGN DATA:**

4 Bedrooms @ 115gals./bdm. Per day = 460 gallons  
 460 gallon /2.3 gals./s.f. per day (Based on Soil Category 6 soils) = 200s.f. required  
 200s.f./3.25 s.f./l.f. of "Geomat 3900" = 61.5± l.f. required

2 Rows of "Geomat 3900" @ 32 l.f. each = 64 l.f. or 208 s.f. provided

Therefore the proposed leaching system consisting of a "single zone" design with a 1 1/2" diameter Transport Line and Manifold, (2) 32' rows of "Geomat 3900", with 1" diameter laterals and 1/8" orifices spaced @ 24" intervals meets or exceeds the minimum design requirements set forth by the RI Department of Environmental Management "OWTS" Section.

**"GEOMAT" DOSING DATA:**

The maximum dosing volume for "Geomat 3900" is .75 gallons per linear foot per dose or .25 gallons per Orifice per dose based on the RI Sand Filter Guidance Document.

64 orifices @ a maximum of .25 gals./dose = 16 gallons to be dispensed per pump cycle

Set pump floats to dispense 30 equal doses of 16 gallons @ 0.62 minutes "ON" and 47.38 minutes "OFF".

**"GEOMAT" DESIGN ELEVATIONS:**

The original ground at both SEV #1 and the Geomat System is at elevation 393.0 +/- O.G. 393.0 - 44" = Elevation 389.33 at the Estimated Seasonal High Water Table  
 O.G. 393.0 - 75" = Elevation 386.75 as the depth of impervious Material

The bottom of the Geomat System has been maintained @ 2.4' (2' minimum required) above the ESHWT and @ 4.98' (4' minimum required) above Impervious

**SCHEDULE OF PVC PIPE SIZES**

BUILDING TO SEPTIC TANK	4" SCH 40
SEPTIC TANK TO TEXTILE FILTER	4" SCH 40
TRANSPORT LINE TO GEOMAT	1 1/2" CLASS 200
GEOMAT MANIFOLD	1 1/2" SCH 40
GEOMAT LATERALS	1" SCH 40

**INVERT SCHEDULE & OWTS ELEVATIONS**

LOCATION	ELEVATION
OUT OF BUILDING AT GRADE	376.0(GRAVITY)
INTO SEPTIC TANK	375.4(GRAVITY)
OUT OF SEPTIC TANK TO ADVANTEX FILTER	375.15(GRAVITY)
INTO ADVANTEX FILTER	374.83(GRAVITY)
INVERT OF ADVANTEX OUTLET	375.0±(PRESSURE)
INVERT INTO GEOMAT MANIFOLD	392.0±(PRESSURE)
INVERT OF GEOMAT LATERALS	391.83±(PRESSURE)

MAXIMUM FINISH GRADE OVER GEOMAT LATERAL IS 12" OR EL.=392.83  
 MINIMUM FINISH GRADE OVER GEOMAT LATERAL IS 8" OR EL.=392.5

**PLAN OF PROPOSED ON-SITE WASTE WATER TREATMENT SYSTEM (OWTS) AND PROPOSED SITE ALTERATIONS**

FOR  
 SUBDIVISION LOT 13, WHITE OAK ESTATES  
 ASSESSORS PLAT 18, LOT 340  
 SITUATED ON  
 BLOSSOM CIRCLE, GLOCESTER, RHODE ISLAND

Prepared For: MR. & MRS. BRIAN STEERE

Samuel A. White, Jr.  
 PROFESSIONAL LAND SURVEYOR  
 2-15-19

SCALE: NOT TO SCALE DATE: JAN. 30, 2015

**EROSION CONTROL and SOIL STABILIZATION PROGRAM:**

- DENUDED SLOPES SHALL NOT BE LEFT EXPOSED FOR EXCESSIVE PERIODS OF TIME.
- ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
- TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
- HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 2000 LBS/ACRE.
- ALL HAYBALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
- THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS.
- THE SEED MIX SHALL BE INOCULATED WITH TWENTY FOUR (24) HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
- THE DESIGN MIX FOR TEMPORARY EROSION CONTROL AND SOIL STABILIZATION SHALL BE COMPRISED OF THE FOLLOWING:
 

TYPE	% BY WEIGHT
CREeping RED FESCUE	70
ASTORIA BENTGRASS	5
BIRDSFOOT TREEFOIL	15
PERENNIAL RYEGRASS	10

APPLICATION RATE 100 LBS/ACRE
- LIMING AND FERTILIZING AS REQUIRED TO COMPLIMENT OR UPGRADE EXISTING CONDITIONS.
- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE (1) YEAR, AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1ST THROUGH OCTOBER 15TH.
- STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN FIFTEEN (15) DAYS OF FINAL GRADING.
- STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS OR FLOOD PLAINS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN THIRTY PERCENT (30%) AND STOCKPILES SHALL ALSO BE SEEDED AND/OR STABILIZED AND COMPLETELY ENCLOSED WITH A CONTINUOUS LINE OF STAKED HAYBALES AND/OR SILT FENCE. (SEE DETAIL)
- ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.

**SEDIMENTATION CONTROL PROGRAM:**

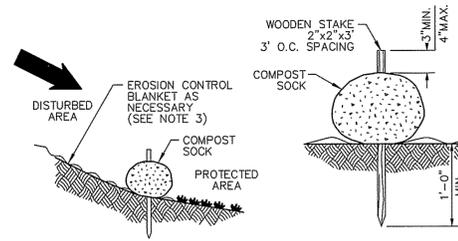
- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY SEDIMENTS FROM ENTERING THE STATE HIGHWAY OR ADJOINING PROPERTIES.
- BANKS OR SLOPES OVER 5% SHALL BE SEEDED AS SOON AS POSSIBLE AND SHALL BE PROTECTED WITH A HAY, STRAW OR FIBER MULCH, ALL SLOPES @ 2:1 OR STEEPER MUST BE PROPERLY STABILIZED w/JUTE MESH.
- DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
- SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
- CARE SHALL BE TAKEN SO AS NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECTED TO STORM WATER FLOW.
- ADDITIONAL HAYBALES, SILT FENCE OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.

**LONG TERM MAINTENANCE PROGRAM:**

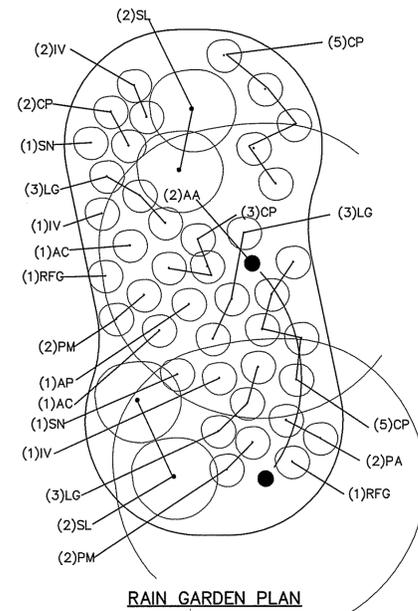
- RAIN GARDENS SHALL BE INSPECTED FOLLOWING AT LEAST THE FIRST TWO PRECIPITATION EVENTS OF AT LEAST 1.0 INCH TO ENSURE THAT THE SYSTEM IS FUNCTIONING PROPERLY. THEREAFTER, THE RAIN GARDEN SHALL BE MONITORED AND MAINTAINED TO ASSURE PROPER FUNCTIONING, PLANT GROWTH AND SURVIVAL. PLANTS SHALL BE REPLACED ON AN AS-NEEDED BASIS DURING THE GROWING SEASON.
- SILT/SEDIMENT SHALL BE REMOVED FROM THE RAIN GARDEN WHEN THE ACCUMULATION EXCEEDS ONE INCH, OR WHEN WATER PONDS ON THE SURFACE OF THE RAIN GARDEN FOR MORE THAN 48 HOURS. THE TOP FEW INCHES OF MATERIAL SHALL BE REMOVED AND SHALL BE REPLACED WITH FRESH SOIL MIXTURE AND MULCH.
- PRUNING OR REPLACEMENT OF WOODY VEGETATION SHALL OCCUR WHEN DEAD OR DYING VEGETATION IS OBSERVED.
- SOIL EROSION GULLIES SHALL BE REPAIRED WHEN THEY OCCUR.
- FERTILIZER OR PESTICIDES SHALL NOT BE APPLIED TO PLANTS WITHIN RAIN GARDENS.
- PERENNIAL PLANTS AND GROUND COVERS SHALL BE REPLACED AS NECESSARY TO MAINTAIN AN ADEQUATE VEGETATED GROUND COVER. ANNUAL PLANTS MAY ALSO BE USED TO MAINTAIN GROUND COVER.

**NOTES:**

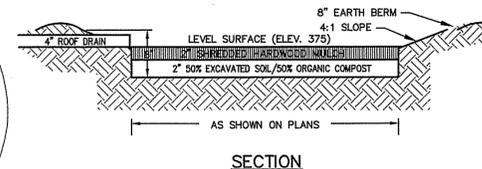
- COMPOST SOCK SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS. COMPOST SOCK SHALL BE A MINIMUM OF 8" IN DIAMETER.
- COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
- WHEN PLACING COMPOST SOCK ON SLOPES, USE EROSION CONTROL BLANKET IF SPECIFIED ON PLANS.
- ALWAYS INSTALL COMPOST SOCK PERPENDICULAR TO SLOPE AND ALONG CONTOUR LINES.
- REMOVE SEDIMENT FROM THE UP SLOPE SIDE OF THE COMPOST SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE COMPOST SOCK.



**COMPOST SILT SOCK DETAIL**  
NOT TO SCALE

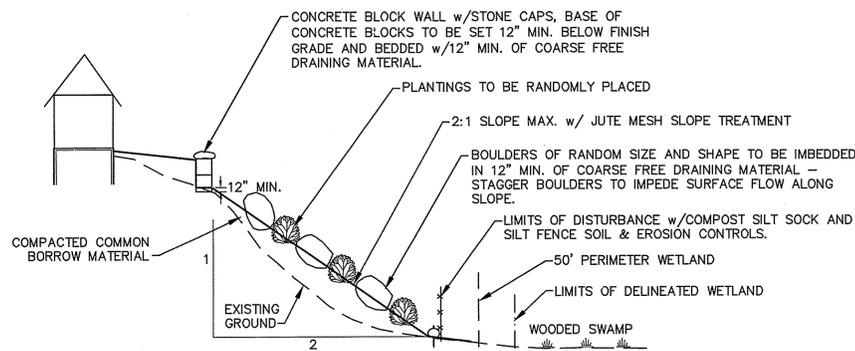


**RAIN GARDEN PLAN**

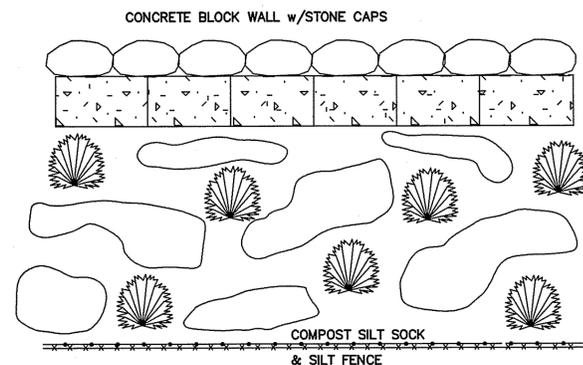


**SECTION**

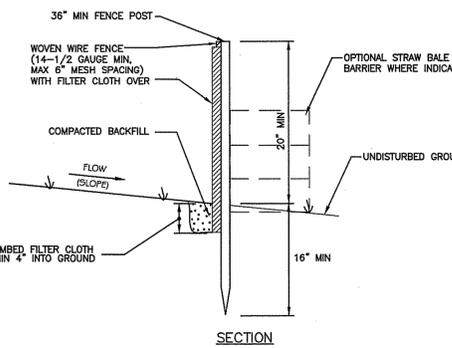
**RAIN GARDEN DETAILS**  
NOT TO SCALE



**2:1 SLOPE DETAIL**  
NOT TO SCALE



**PLAN VIEW OF TREATMENT ON 2:1 SLOPE**  
NOT TO SCALE

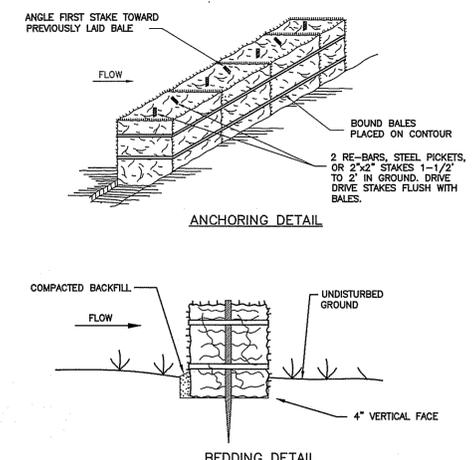


**SILT FENCE DETAIL**  
NOT TO SCALE

**CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 2' AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE OR DEPTH OF ACCUMULATED SEDIMENT REACHES 6".

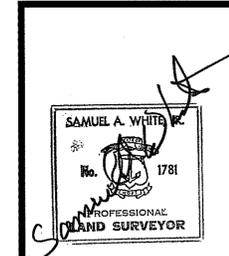
POSTS: STEEL, EITHER "T" OR "U" TYPE OR 2" HARDWOOD  
FENCE: WOVEN WIRE, 14 GAUGE 6" MAX. MESH OPENING  
FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL  
PREFABRICATED UNIT: GEOPAB, ENVIROFENCE, OR APPROVED EQUAL



**CONSTRUCTION SPECIFICATIONS**

- BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR, AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL, A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE, AT AN ANGLE, TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
- INSPECTION SHALL BE FREQUENT AND REPAIR/REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED. REMOVE ACCUMULATED SEDIMENT PROMPTLY.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

**STRAW BALE BARRIER DETAIL**  
NOT TO SCALE



**PLAN OF PROPOSED ON-SITE WASTE WATER TREATMENT SYSTEM (OWTS) AND PROPOSED SITE ALTERATIONS**  
FOR  
**SUBDIVISION LOT 13, WHITE OAK ESTATES ASSESSORS PLAT 18, LOT 340**  
SITUATED ON  
**BLOSSOM CIRCLE, GLOCESTER, RHODE ISLAND**  
Prepared For: **MR. & MRS. BRIAN STEERE**

SCALE: NOT TO SCALE DATE: JAN. 30, 2015



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