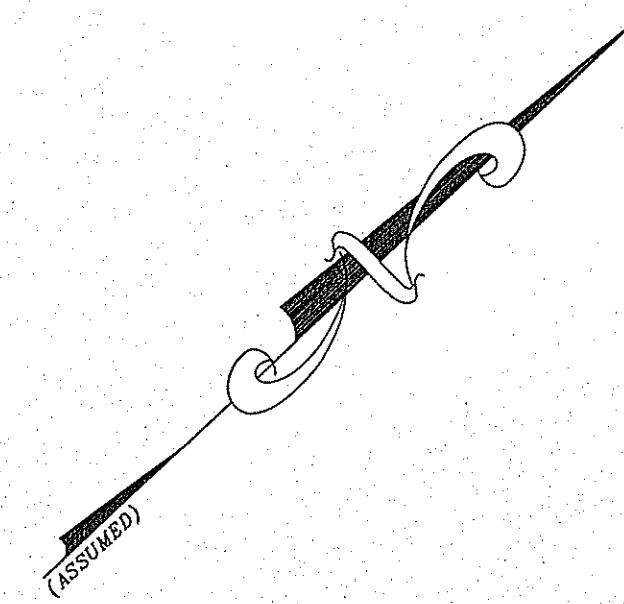
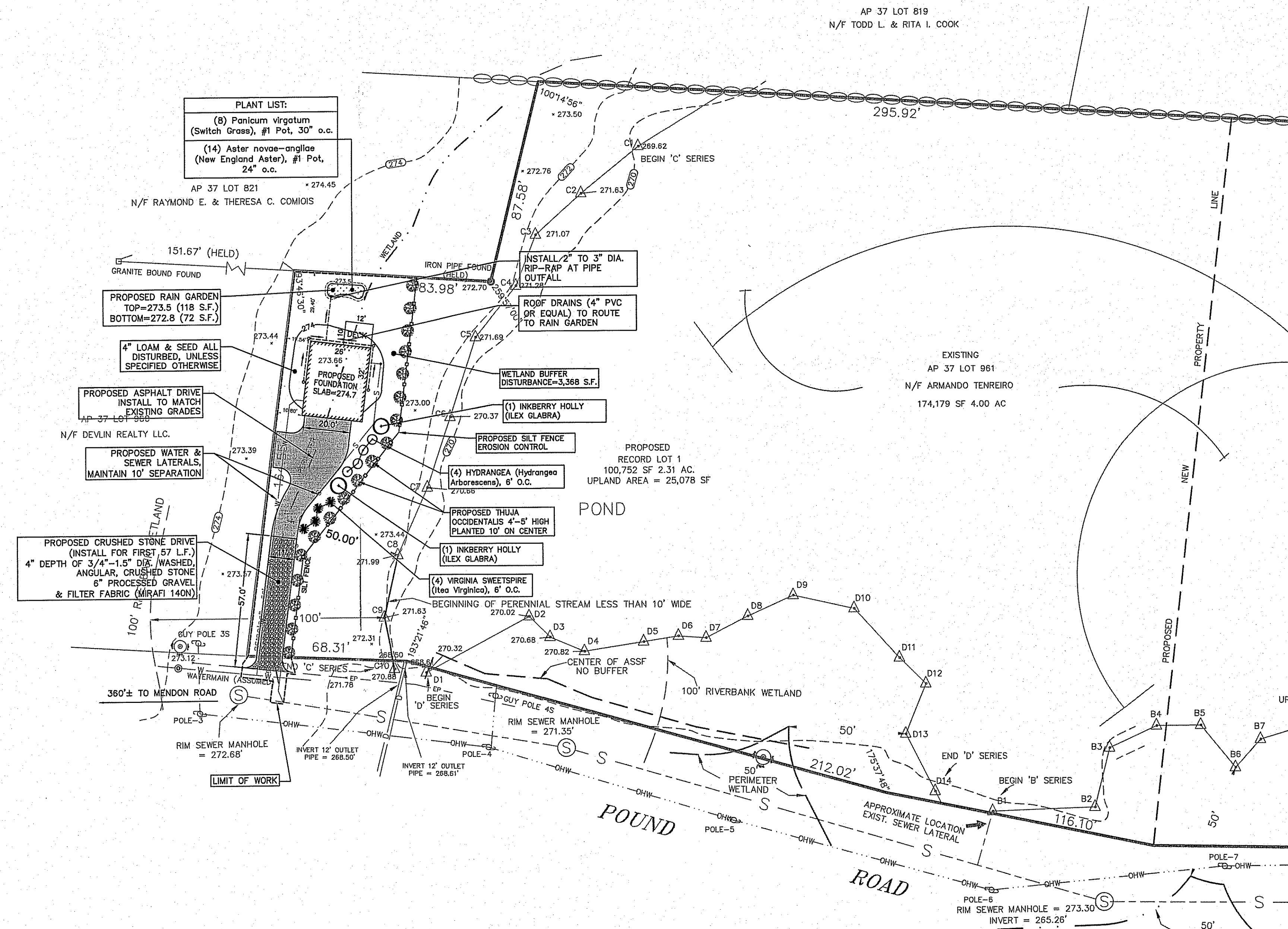


**LEGEND**

- 260 — PROPOSED CONTOUR
- 260x0 PROPOSED SPOT GRADE
- - - - - PROPOSED SILT FENCE
- - - - - PROPOSED LIMIT OF WORK
- C9△ EXISTING WETLAND FLAG
- 272.31 EX. SPOT GRADE
- (25) EX. CONTOURS
- - - - - 50' PERIMETER WETLAND SETBACK
- ⊙ EX. WATER VALVE
- EP — EX. EDGE OF PAVEMENT
- OHW — EX. OVERHEAD WIRES
- ⊙ EX. FIRE HYDRANT



Locus Map



**PLANT LIST:**  
 (8) Panicum virgatum (Switch Grass), #1 Pot, 30" o.c.  
 (14) Aster novae-angliae (New England Aster), #1 Pot, 24" o.c.

PROPOSED RAIN GARDEN  
 TOP=273.5 (118 S.F.)  
 BOTTOM=272.8 (72 S.F.)

4" LOAM & SEED ALL DISTURBED, UNLESS SPECIFIED OTHERWISE

PROPOSED ASPHALT DRIVE INSTALL TO MATCH EXISTING GRADES

PROPOSED WATER & SEWER LATERALS, MAINTAIN 10' SEPARATION

PROPOSED CRUSHED STONE DRIVE (INSTALL FOR FIRST 57 L.F.)  
 4" DEPTH OF 3/4"-1.5" DIA. WASHED, ANGULAR, CRUSHED STONE  
 6" PROCESSED GRAVEL & FILTER FABRIC (MIRAFI 140N)

WETLAND BUFFER DISTURBANCE=3,368 S.F.

(1) INKBERRY HOLLY (ILEX GLABRA)

(4) HYDRANGEA (Hydrangea Arborescens), 6" O.C.

PROPOSED THUJA OCCIDENTALIS 4"-8" HIGH PLANTED 10' ON CENTER

(1) INKBERRY HOLLY (ILEX GLABRA)

(4) VIRGINIA SWEETSPICE (Itea Virgatica), 6" O.C.

BEGINNING OF PERENNIAL STREAM LESS THAN 10' WIDE

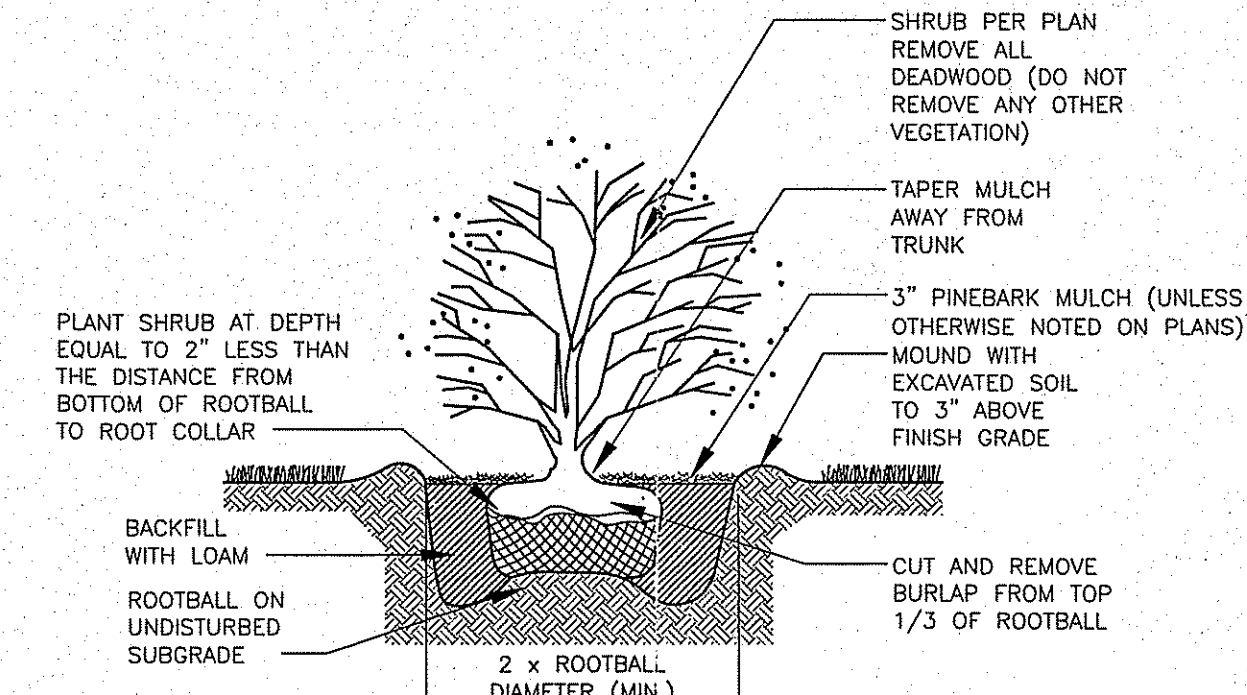
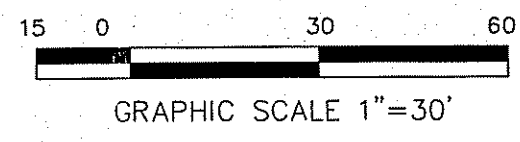
CENTER OF ASSF NO BUFFER

100' RIVERBANK WETLAND

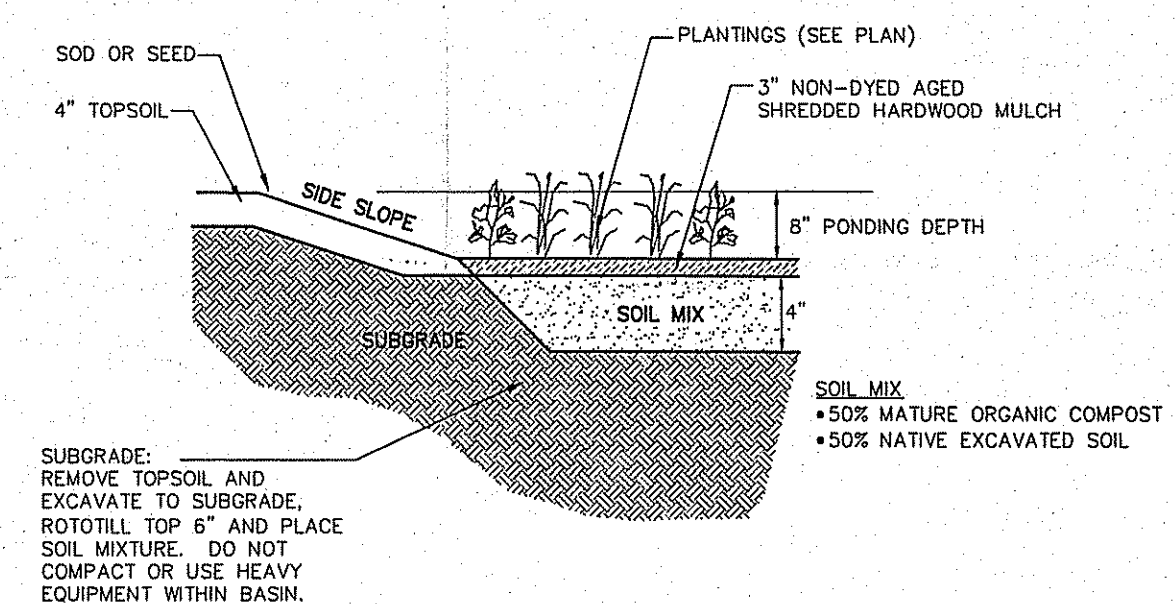
50' PERIMETER WETLAND

APPROXIMATE LOCATION EXIST. SEWER LATERAL

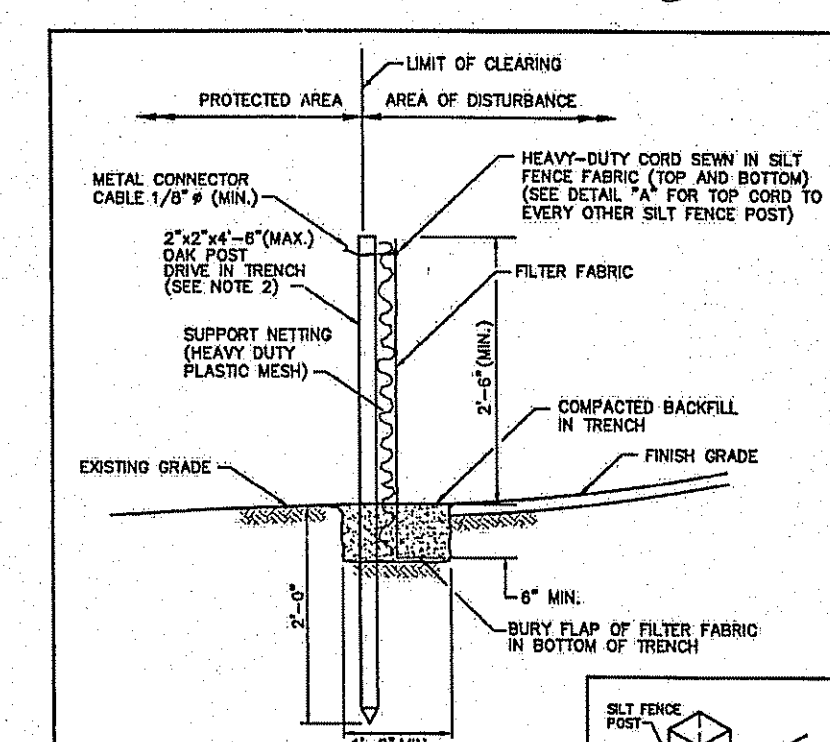
50' PERIMETER WETLAND



NOTE: REFER TO RIDOT STANDARD SPECIFICATION SECTION L06, PLANTING, FOR SPECIFICS  
**SHRUB PLANTING**  
 SCALE: N.T.S.



**RAIN GARDEN**  
 CROSS SECTION  
 SCALE: N.T.S.



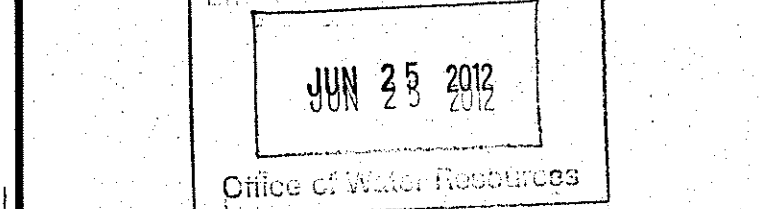
NOTES:  
 1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.  
 2. 2"x4" (MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 10'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.  
 3. 1"x4" (MAX.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.  
 4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
**SILT FENCE DETAIL**  
 DATE: 15\_1998  
 R.I. STANDARD 9.2.0

- General Notes:**
- THE EXISTING CONDITIONS SHOWN ON THIS PLAN WERE FIELD SURVEYED AND PROVIDED BY MARSH & LONG SURVEYING, INC. 450 GEORGE WASHINGTON HIGHWAY, SMITHFIELD, RI 02917 DATED JANUARY 18, 2012. PROPERTY LINE SURVEY CONFORMS TO A CLASS III STANDARD.
  - WETLAND FLAGS SHOWN ON THIS PLAN WERE DELINEATED BY NATURAL RESOURCE SERVICES, INC. OF BURRILLVILLE, RI.
  - THE CONTRACTOR SHALL NOTIFY DIG-SAFE 72 HOURS PRIOR TO START OF CONSTRUCTION.
  - PROPER EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO EARTH DISTURBING ACTIVITIES. THIS SHALL INCLUDE SILT FENCE OR HAYBALES AT ALL DOWN GRADIENT AREAS, INLET PROTECTION OF CATCH BASINS, AND A CRUSHED STONE CONSTRUCTION TRACKING PAD.
  - THIS PARCEL LIES WITHIN ZONE 'X' FOUND ON FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER 440070185G ZONE 'X' = AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN. MAP REVISED: MARCH 2, 2009
  - LOCATION OF EXISTING UTILITIES SHOWN, ARE FROM GATE LOCATION AND EXISTING DOCUMENTATION, AND MAY NOT BE ACCURATE. EXACT LOCATION TO BE DONE BY THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY PRIOR TO EXCAVATION.
  - THIS SITE IS SERVICED BY PUBLIC SEWER AND WATER.
  - CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL BE IN CONFORMANCE WITH TOWN OF CUMBERLAND DEPARTMENT OF PUBLIC WORKS AND ENGINEERING DEPARTMENT.

**Soils Disclaimer**  
 • NO SOILS TESTING HAS BEEN PERFORMED OR PROVIDED TO ADVANCED CIVIL DESIGN, INC. (ACD) INDICATING SOIL TYPES AND GROUNDWATER ELEVATION. THE OWNER AND/OR CONTRACTOR IS MADE AWARE THAT ACD MADE REASONABLE ASSUMPTIONS FOR DESIGN OF STORMWATER MITIGATION SYSTEMS. THE CONTRACTOR SHALL INSTALL ALL GRADES AS SHOWN AND INTENDED. IF FIELD CONDITIONS WARRANT A CHANGE FROM THIS PLAN THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

- Rain Garden Maintenance**
- RAIN GARDENS SHALL BE INSPECTED FOLLOWING AT LEAST THE FIRST TWO (2) PRECIPITATION EVENTS 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 ACCUMULATED SEDIMENT EXCEEDS ONE (1) INCH, OR WHEN WATER PONDS FOR MORE THAN 48 HOURS. THE TOP FEW INCHES OF MATERIAL SHALL BE REMOVED AND 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.



**Advanced Civil Design, Inc.**  
 SITE/CIVIL ENGINEERS  
 7 COUNTRYSIDE LANE  
 SCITUATE, RI 02857  
 PH: (401) 644-8656

NO.	DATE	REVISION
2	5-24-12	RIDEM BIOLOGICAL REVIEW COMMENTS
1	4-27-12	RIDEM BIOLOGICAL REVIEW COMMENTS

PROJECT TITLE:  
**Proposed Single Family Dwelling**  
 A.P. 37 LOT 981  
 POUND ROAD  
 CUMBERLAND, RI  
 OWNER/APPLICANT:  
 ARMANDO TENREIRO

DRAWING TITLE:  
**EROSION CONTROL, GRADING, & DRAINAGE PLAN & DETAILS**  
 DATE: MARCH 5, 2012  
 SCALE: 1"=30'  
 DESIGNED BY: C.S.R.  
 CHECKED BY: C.S.R.

CURTIS S. RUOTOLO  
 No. 8756  
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)  
**C-1**  
 SHEET 1 OF 1