

EROSION CONTROL AND SOIL STABILIZATION PLAN

1. DENUDED SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF THE TIME SUCH AS THE INACTIVE WINTER SEASON.
2. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 19, SHALL BE SEEDED OR PROTECTED NO LATER THAN THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
3. SEEDING AND LANDSCAPING SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION (RIDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (HEREINAFTER REFERRED TO AS THE "BLUEBOOK") SECTION L.02 "SEEDING", AND SECTION M.18 "LANDSCAPING MATERIALS".
4. THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, SOD, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS. LOAM SHALL BE HIGH IN ORGANIC MATTER FREE FROM BOULDERS/STONES GREATER THAN 3/4" AND OTHER DELETERIOUS MATTER SUCH AS STICKS, SOD CLUMPS, TRASH, ETC. MUCK/FEAT OR SEWER PLANT SCREENINGS/COMPOST ARE NOT ACCEPTABLE FOR USE AS LOAM.
5. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS BEFORE MIXING AND PLANTING WITH APPROPRIATE INOCULUM FROM EACH VARIETY.
6. THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	%BY WEIGHT	%BY VOLUME (PURE LIVE SEED)
RED FESCUE (CHEWING'S PENNLAWN OR CREEPING)	70	78
KENTUCKY BLUEGRASS COLONIAL BENTGRASS (ASTORIA OR EXETER)	15	68
PERENNIAL RYEGRASS	5	85
SEEDING RATE: 100LBS./ACRE	10	85
SLOPE MIX:		
RED FESCUE (CHEWING'S PENNLAWN OR CREEPING)	70	78
COLONIAL BENTGRASS (ASTORIA OR EXETER)	10	85
PERENNIAL RYEGRASS	10	85
BIRDSFOOT TREFLOIL (LOTUS CORNICULATA)	15	78
SEEDING RATE: 100LBS./ACRE		
*INCLUDES UP TO 20% HARD SEED		

7. LIME SHALL BE APPLIED UNIFORMLY AT THE RATE OF 2,000 LBS./ACRE. WHERE HIGHLY ACIDIC SOILS ARE ENCOUNTERED APPLICATION SHALL BE AT THE RATE OF 4,000 TO 6,000 LBS./AC.
8. FERTILIZER (10-5-4 MIN.) SHALL BE SPREAD UNIFORMLY AFTER LIMING AT THE RATE OF 1,000 LBS./AC. ON FLATS AND 1,400 LBS./ACRE ON SLOPES (STEEPER THAN 3:1), OF WHICH 400 LBS. SHALL BE 0-25-25.
9. TEMPORARY TREATMENTS SHALL CONSIST OF 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.
10. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 2,000 LBS./ACRE.

GENERAL NOTES:

1. THE TOPOGRAPHY AND PHYSICAL FEATURES, ETC. FOR THIS SITE WERE OBTAINED BY AN ON SITE SURVEY. ELEVATION DATUM IS ASSUMED.
2. FLOOD HAZARD ZONE "C" AS SHOWN PER FEMA MAP COMMUNITY PANEL #445-407 0015 D; REVISED 1/3/86.
3. NO GRADE CHANGES ARE PROPOSED UNDER THIS APPLICATION.

ZONING DISTRICT: R-10*

MINIMUM LOT SIZE	15,000 S.F.
MINIMUM FRONTAGE	80 FT
MINIMUM YARDS: FRONT	25 FT
SIDE	10 FT
REAR	30 FT

* TWO HOUSEHOLD SPECIFICATIONS

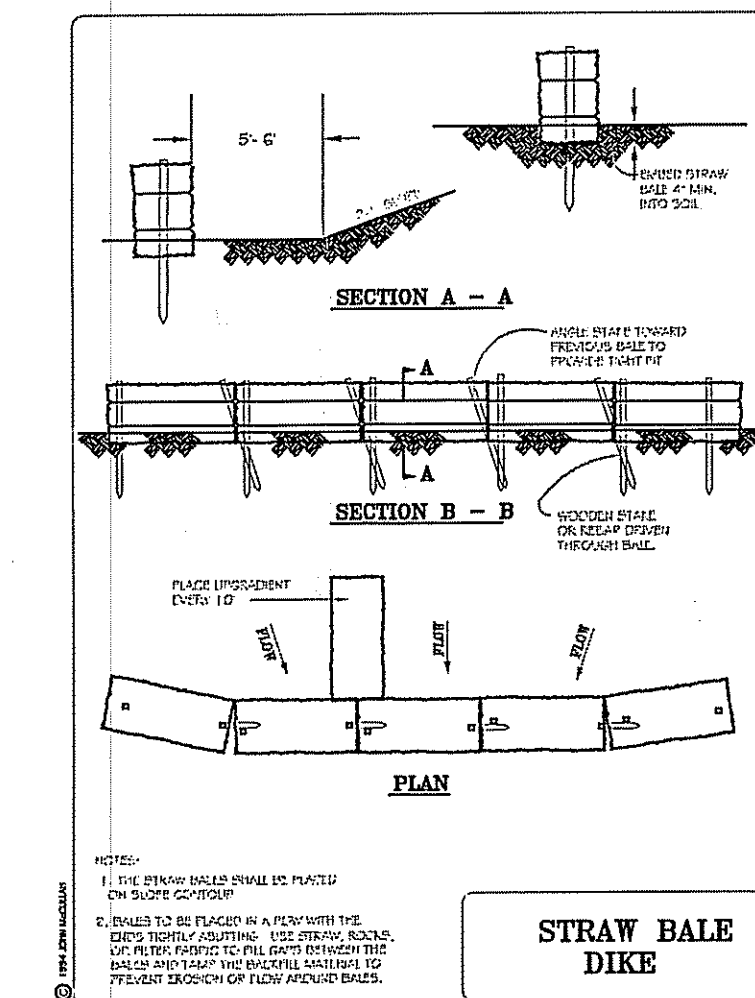
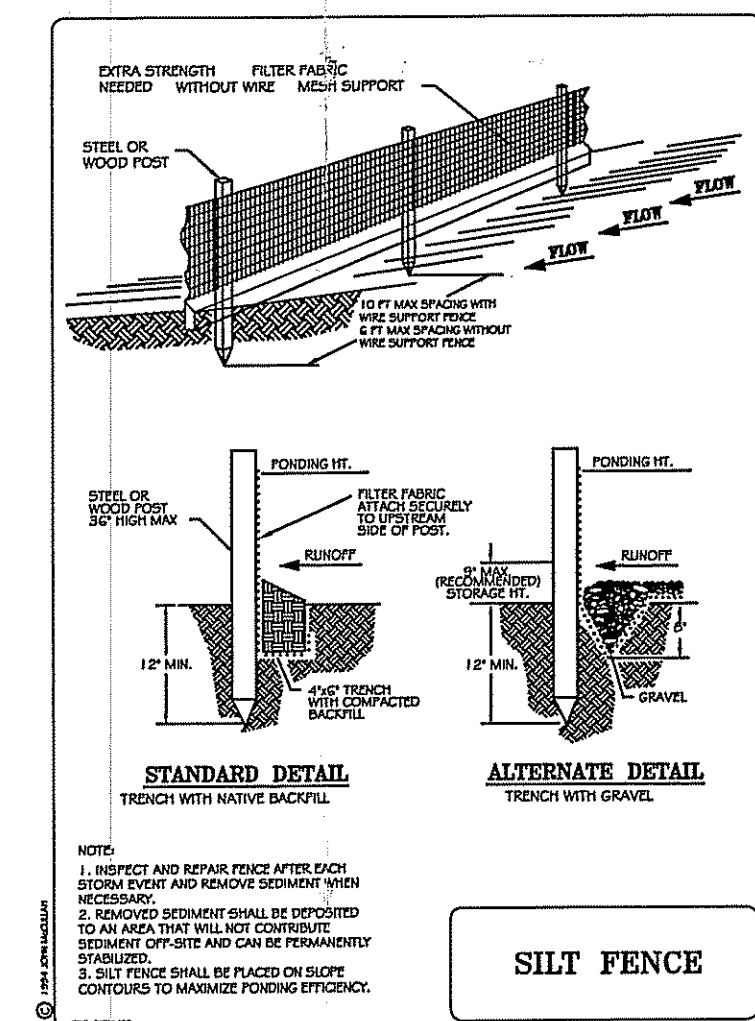
LEGEND

- EXISTING CONTOUR ELEVATION
- PROPOSED CONTOUR ELEVATION
- CONCRETE BOUND FOUND
- IRON ROD FOUND
- IRON ROD SET
- DRILL HOLE SET
- T.F.
- TOP OF FOUNDATION
- GROUNDWATER TEST HOLE
- PERCOLATION TEST
- FILL TEST
- 50' PERIMETER WETLAND
- 100' RIVERBANK WETLAND
- STRAW HAYBALE OR SILT FENCE
- EDGE OF WETLAND

11. ALL HAY BALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
12. AREAS THAT DO NOT DEVELOP AN ACCEPTABLE STAND OF GRASS GROUND COVER WITHIN ONE (1) YEAR SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR UNTIL SATISFACTORY PERFORMANCE IS ACHIEVED.
13. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE SPRING: MARCH 15TH TO MAY 30TH AND FALL: AUGUST 15TH TO OCTOBER 15TH. SEEDING AT OTHER THAN THESE TIMES SHALL BE ALLOWED ONLY WITH WRITTEN PERMISSION OF THE ENGINEER.
14. ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE R.I.D.P.W. STANDARD SPECIFICATIONS SECTION 202.
15. SOIL STABILIZATION AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 15 DAYS OF FINAL GRADING.
16. STOCKPILES OF TOPSOIL SHALL NOT BE LEFT UNATTENDED OR LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 3:1.
17. ON BOTH STEEP AND LONG SLOPES CONSIDERATION SHOULD BE GIVEN TO "GRIMMING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS. CONSIDERATION SHOULD BE GIVEN TO ANCHORING MAT TYPE MULCH.
18. REFERENCE THE SEDIMENTATION CONTROL PROGRAM AND ORDER OF PROCEDURE FOR PROPER COORDINATION.

SEDIMENTATION CONTROL PROGRAM

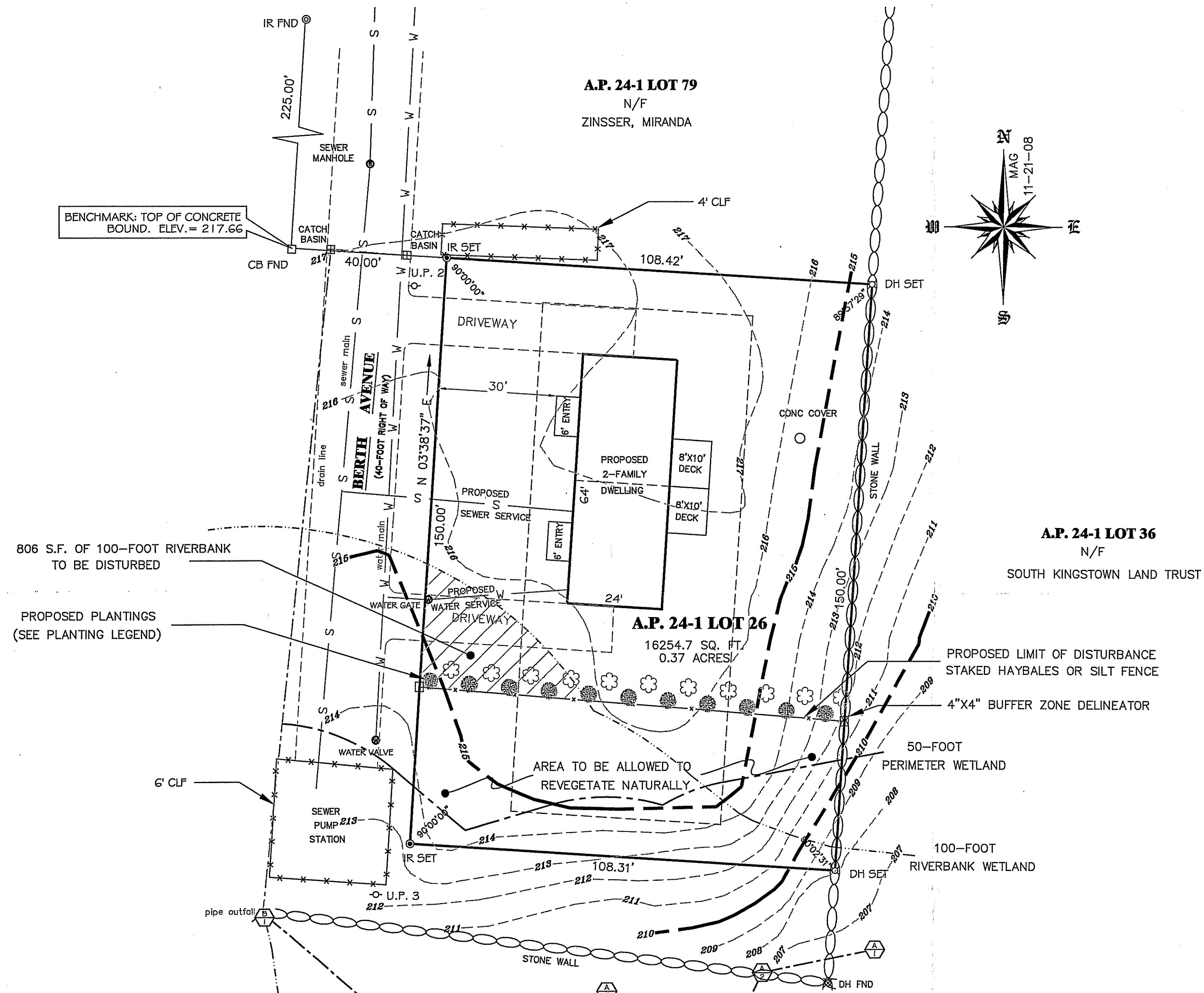
1. HAYBALE CHECK DAMS: (TEMPORARY)
 - A. ARE TO BE INSTALLED DOWNSTREAM WELL OUTSIDE THE LIMITS OF ANY PROPOSED CONSTRUCTION.
 - B. ARE TO BE INSTALLED PRIOR TO THE COMMENCEMENT OF THE PROPOSED ALTERATIONS.
 - C. SHALL BE MAINTAINED ON A REGULAR BASIS.
 - D. SHALL CONFORM TO THE STANDARDS SET FOR THE BY THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT FOR THE DESIGN AND CONSTRUCTION OF LOG AND HAY EROSION CHECK DAMS TYPE "D".
2. DISTURBED AREAS WHICH ARE PARTICULARLY SENSITIVE TO EROSION SHALL RECEIVE A CRUSHED STONE OR SHARP ANGULAR RIPRAP TREATMENT IF OTHER METHODS OF STABILIZATION ARE UNSUCCESSFUL.
3. BANKS OR SLOPES NOT RECEIVING RIP RAP SHALL BE SEEDED AND PROTECTED WITH FIBER MULCH.
4. DURING CONSTRUCTION, THE CONTRACTOR AND OR THE DEVELOPER SHALL BE RESPONSIBLE FOR UTILIZING BEST MANAGEMENT PRACTICES TO CONTROL ENVIRONMENTAL DAMAGE THAT COULD RESULT FROM UNCHECKED STORMWATER RUNOFF.
5. SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED PERIODICALLY AND MAINTAINED REGULARLY. SPECIAL ATTENTION SHOULD BE GIVEN AFTER A HEAVY OR PROLONGED RAINFALL.



PLANTINGS

- EASTERN WHITE PINE *Pinus strobus* 5-FEET TALL PLANTED 10- FEET ON CENTER
- LARGE-LEAF RHODODENDRON *Rhododendron maximum* 4-FEET TALL PLANTED 10- FEET ON CENTER

6. CARE SHALL BE SO AS NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECT TO STORM WATER FLOWAGE.
7. ADDITIONAL HAYBALES, SILT FENCES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
8. SEDIMENTATION TRAPS SHALL BE PROVIDED AND MAINTAINED AT ALL DRAINAGE STRUCTURES DURING CONSTRUCTION.
9. REFERENCE THE "RHODE ISLAND EROSION AND SEDIMENT CONTROL HANDBOOK" (1989) PREPARED BY THE RI DEPT. OF ENVIRONMENTAL MANAGEMENT, RI STATE CONSERVATION COMMISSION AND THE U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE AS A PRACTICAL GUIDE.
10. RIP RAP PADS SHALL BE INSTALLED AT THE OUTLETS FOR ALL CULVERTS DISCHARGING INTO A WATERWAY.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JAN 14 2009 FILE # 08-0279
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Franman

RICHARD T. BZDYRA
PROFESSIONAL LAND SURVEYOR

SURVEY CLASSIFICATION:

THIS SURVEY AND PLAN CONFORM TO A CLASS "111" STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

BY: RICHARD T. BZDYRA, R.P.L.S. DATE: 12/08/08

WETLANDS SITE PLAN
ASSESSOR'S PLAT 24-1, LOT 26
BERTH AVENUE
SOUTH KINGSTOWN, RHODE ISLAND
OWNER: WARREN E. & ROBERT W. LEVALLEY

Ocean State Planners, Inc.
SURVEYORS • ENGINEERS • DESIGNERS
1255 OAKLAWN AVENUE CRANSTON, RHODE ISLAND
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REVISION:
DATE: DEC. 3, 2008
DRAWN BY: DCD
SCALE: 1"=20'
GRAPHIC SCALE
SHEET 1
OF 1 SHEETS
JOB NO. 7765
DWG. NO. 7765-W