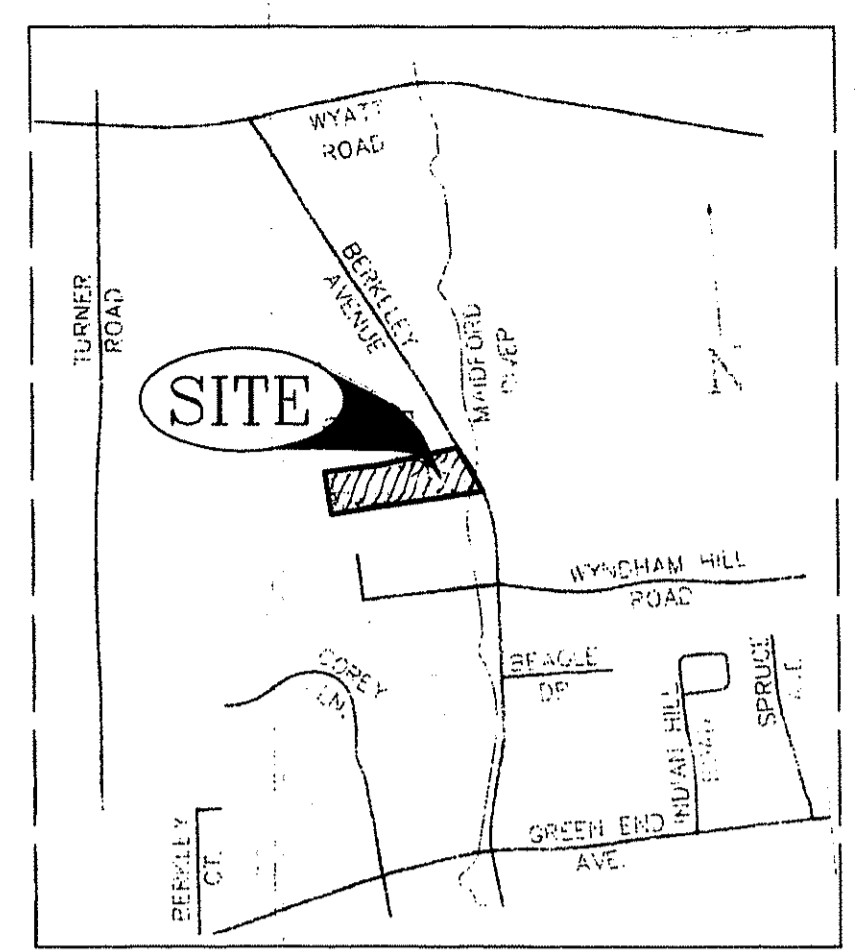
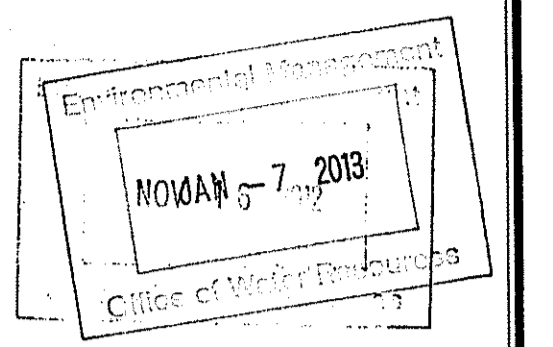


- LEGEND:**
- PERIMETER BOUNDARY
  - - - ABUTTING PROPERTY-LINE
  - - - EXISTING CONTOUR ELEVATION
  - - - PROPOSED CONTOUR ELEVATION
  - ⊗ EXISTING STONEWALL
  - ⊗ WETLAND FLAG LOCATION & NUMBER
  - - - FLAGGED WETLAND LINE
  - - - PERIMETER WETLAND AREA
  - ⊙ PROPOSED PLANTING
  - ⊗ STAKED HAYBALES/SILT FENCING & APPROX. LIMIT OF DISTURBANCE
  - ⊗ EXISTING STONE BOUND
  - A.P. 0 / LOT 5 TAX ASSESSOR'S PLAT / LOT NUMBER



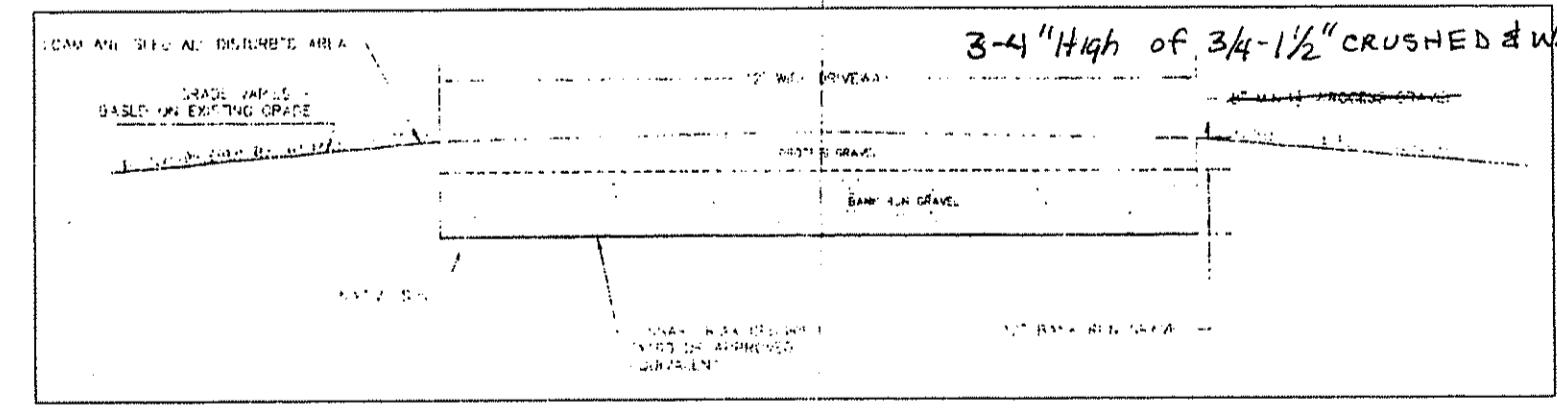
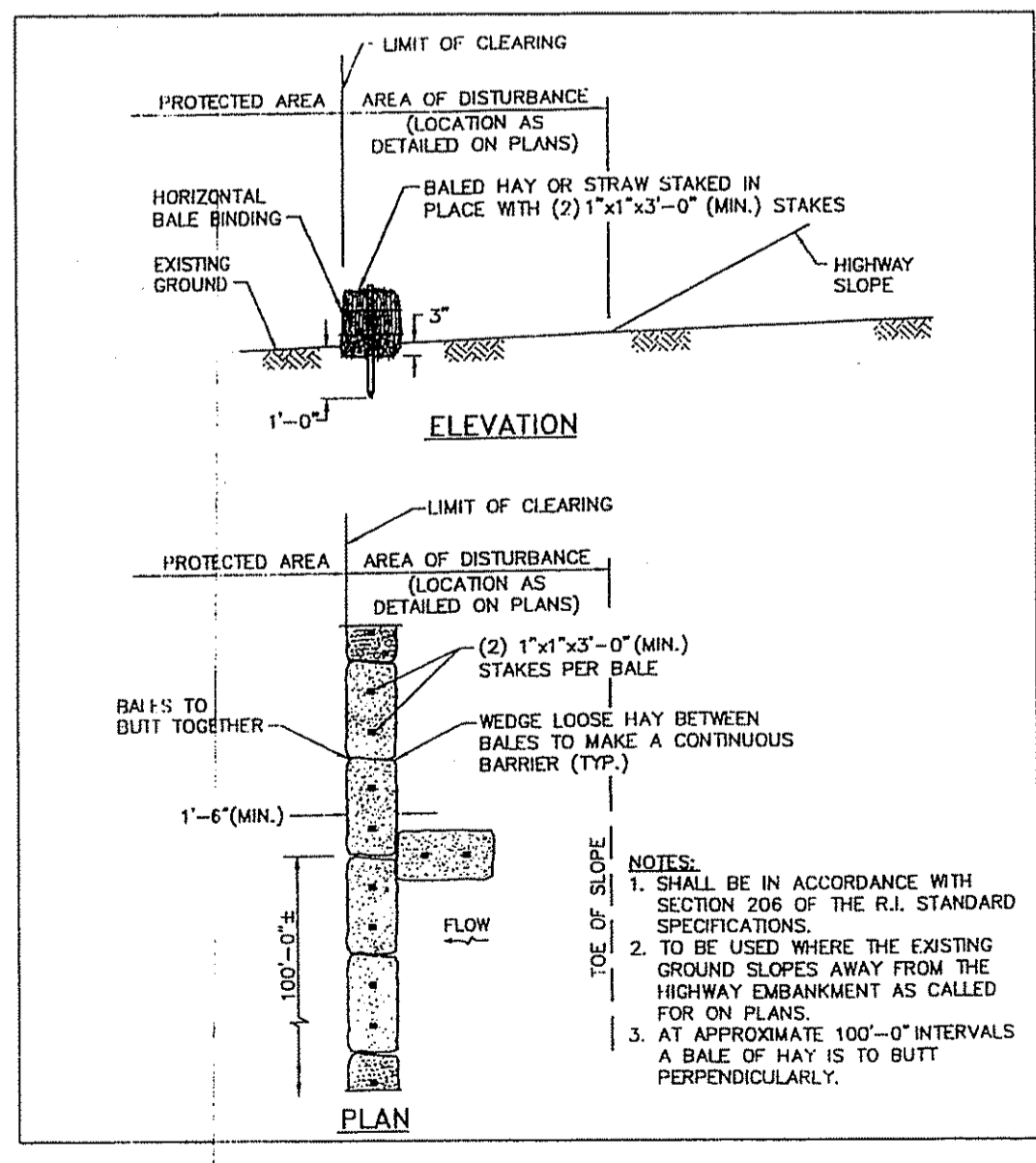
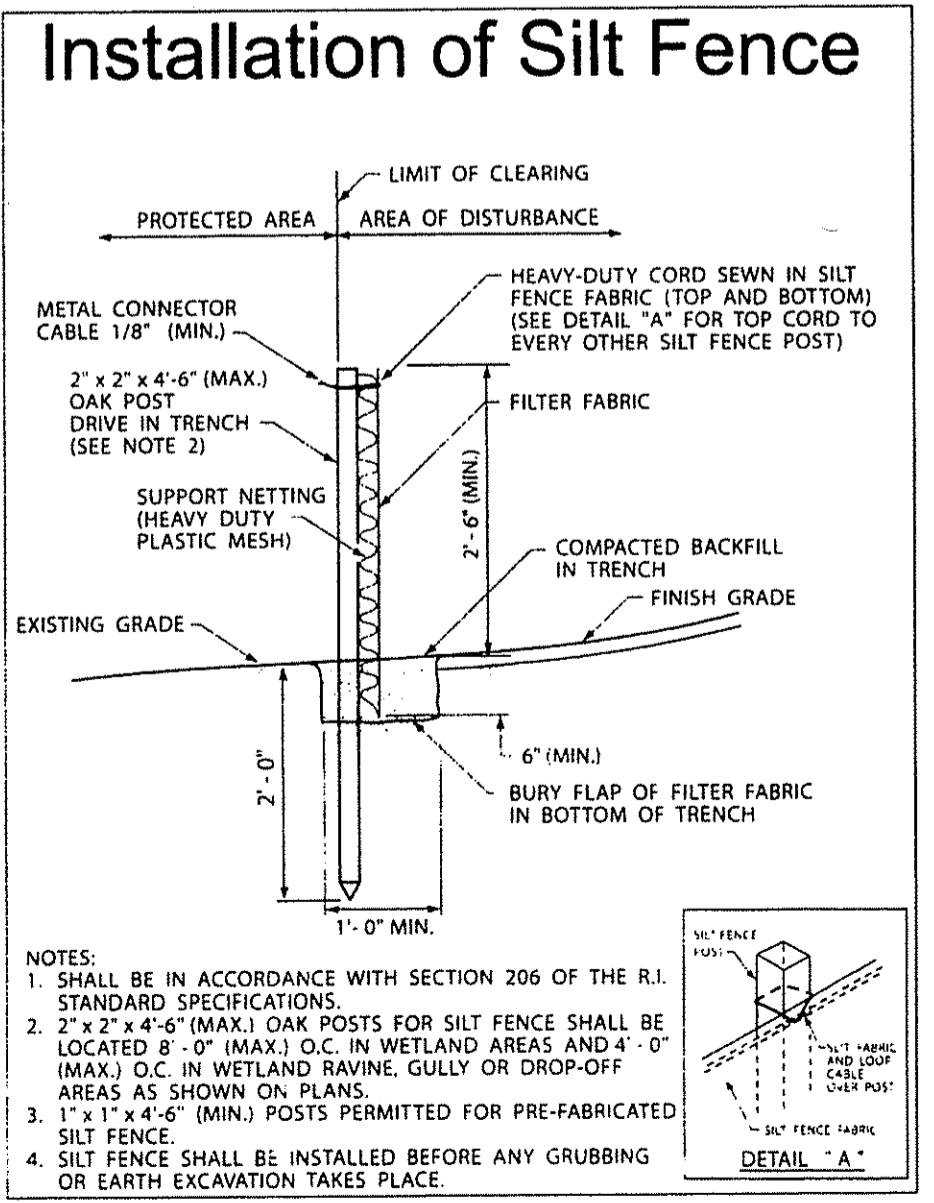
APP #  
12-0134



(\*) EXIST. CULVERT NOTE:  
THE TOWN OF MIDDLETOWN HAS PROPOSED REPLACING THE EXISTING CULVERT SHOWN BELOW WITH A GRASS SWALE & CHECK DAMS PER R.I.D.E.M. No. 11-0169. A 24' LENGTH OF THE EXIST. CULVERT SHALL BE MAINTAINED IN THE AREA OF THE PROPOSED DRIVEWAY AS SHOWN. THIS DESIGN HAS BEEN REVIEWED & APPROVED BY THE TOWN OF MIDDLETOWN PUBLIC WORKS DEPARTMENT & THE CONSULTING ENGINEERS.

EXISTING 18" RCP CULVERT 30'-24" SECTION TO BE MAINTAINED (\*) INVERT = 95.8 (\*) SEE CULVERT NOTE ABOVE  
PROPOSED APRON PAVED/COBBLED  
PROPOSED OVERHEAD CABLE & ELEC. LINES  
P-POLE #18  
BENCHMARK: NAIL IN P-POLE #18 (1" X 6") ELEV. = 92.17 (ASSUMED)  
PROPOSED RIP-RAP EROSION CONTROL PAD TO BE INSTALLED AT THE NEW OUTLET OF THE MODIFIED CULVERT. THIS SHALL BE INSTALLED DURING THE INSTALLATION OF THE TOWN OF MIDDLETOWN'S SCHEDULED MODIFICATIONS.

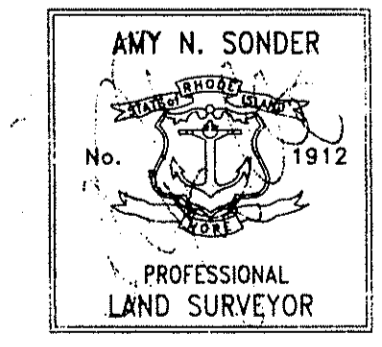
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.



1. ALL EFFORTS SHALL BE ENFORCED TO MAINTAIN SUBSTANTIAL TREES IN AREAS CLOSE TO THE PROPOSED DRIVE.
2. THE PROPOSED DRIVEWAY HAS BEEN PROPOSED CLOSE TO AN OLD EXISTING CART PATH/FARM ROAD, THEREFORE.
3. THE GRADE OF THE PROPOSED DRIVEWAY SHALL SUBSTANTIALLY FOLLOW EXISTING GRADE. NO GRADE CHANGES ANTICIPATED.
4. SIDE SLOPES SHALL BE LOAMED AND SEEDED IMMEDIATELY FOLLOWING DRIVEWAY CONSTRUCTION.

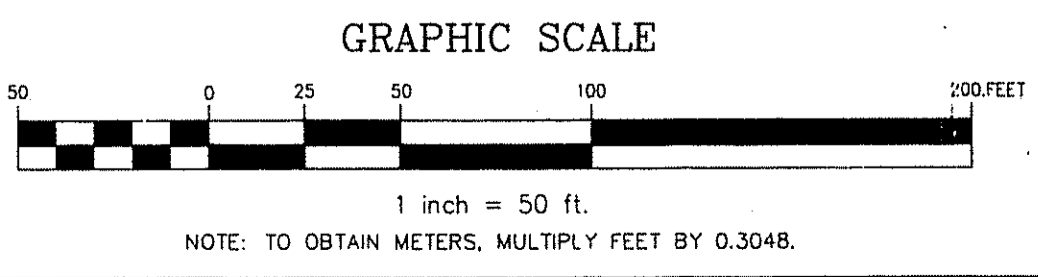
**GENERAL NOTES & GUIDELINES:**

1. PRIOR TO THE START OF CONSTRUCTION, HAYBALES, SILT FENCING AND ALL OTHER SPECIFIED EROSION CONTROL SHALL BE IN PLACE.
2. THE CONTRACTOR SHALL BE REQUIRED TO ESTABLISH AND FULLY MAINTAIN ALL REQUIRED EROSION & SLURMENT CONTROLS.
3. ALL EXPOSED SLOPES, INCLUDING STOCKPILES OF MATERIAL SHALL RECEIVE TEMPORARY SEDIMENT & EROSION CONTROLS. THIS WILL INCLUDE LOAMING AND SEEDING, MULCHING, HAYMATS, ETC. TO
4. ALL DRAINAGE STRUCTURE SHALL BE SURROUNDED BY HAYBALES TO PREVENT INFILTRATION OF SEDIMENTS.
5. SHOULD SEDIMENT ENTER A CRITICAL AREA, (WETLAND, BUFFER ZONE, ABUTTING PROPERTY) THE CONTRACTOR SHALL IMMEDIATELY CLEAN AND RESTORE EFFECTED AREA.
6. REFERENCE IS HEREBY MADE TO THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, PUBLISHED BY THE SOIL CONSERVATION SERVICE. THE GUIDELINES SHOWN THEREON SHOULD BE INCORPORATED INTO THE CONSTRUCTION PRACTICES ON SITE.



THIS PERIMETER SURVEY AND PLAN CONFORM TO A CLASS IV SURVEY STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF PROFESSIONAL LAND SURVEYORS.  
THE WETLAND FLAGS, TOPOGRAPHY AND NORTHERLY STONEWALL IN THE AREA OF THE PROPOSED GRAVEL DRIVEWAY WAS FIELD LOCATED AND CONFORMS TO A CLASS III SURVEY STANDARD.

BY: *[Signature]* DATE: 1/14/2012  
AMY N. SONDER, P.L.S. 1912



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED JAN 15 2012 FILE # 12-0134  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

**SITE PLAN SHOWING A PROPOSED DRIVEWAY & UTILITIES TO A DWELLING ON LAND BELONGING TO LEE G. & HEIDI V. HOLLAND**  
LAND KNOWN AS ASSESSOR'S PLAT 119 / LOT 19 SITUATED IN THE TOWN OF MIDDLETOWN, RHODE ISLAND  
DATE: JULY 27, 2012; SCALE: 1"=50'  
REVISED: OCT. 24, 2012; PER R.I.D.E.M. & TOWN OF MIDDLETOWN P.W. REVIEW  
PREPARED BY:  
**EASTERBROOKS & ASSOCIATES**  
2505 BOSTON NECK ROAD SAUNDERSTOWN, R.I. 02874 TEL.667-7770

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

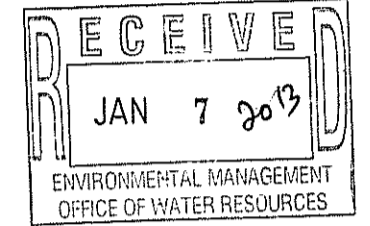
# SITE OVERVIEW

**NARRAGANSETT ENGINEERING INC.**



MAIN OFFICE:  
3102 EAST MAIN ROAD,  
PORTSMOUTH, RI 02871  
TEL : (401) 683-6630

www.nei-cds.com

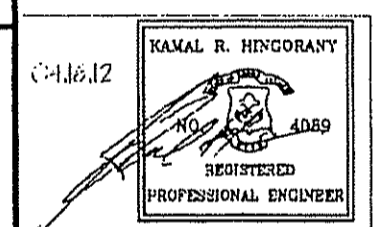


## SHEET TITLE SEDIMENTATION AND EROSION CONTROL PLAN

OWNER(S) OF RECORD  
HOLLAND, HEIDI V. AND LEE C.  
RIVERSIDE DR.  
BARRINGTON RI 02806

LOCATION  
BERKLEY AVE  
MIDDLETOWN, RI 02842

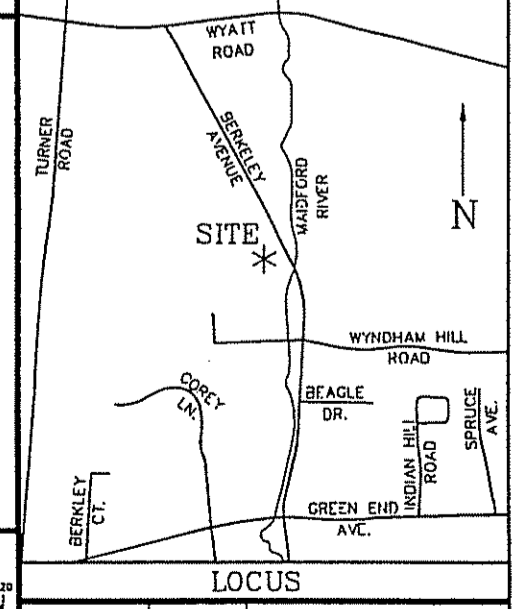
PLAT: 119 LOT: 19



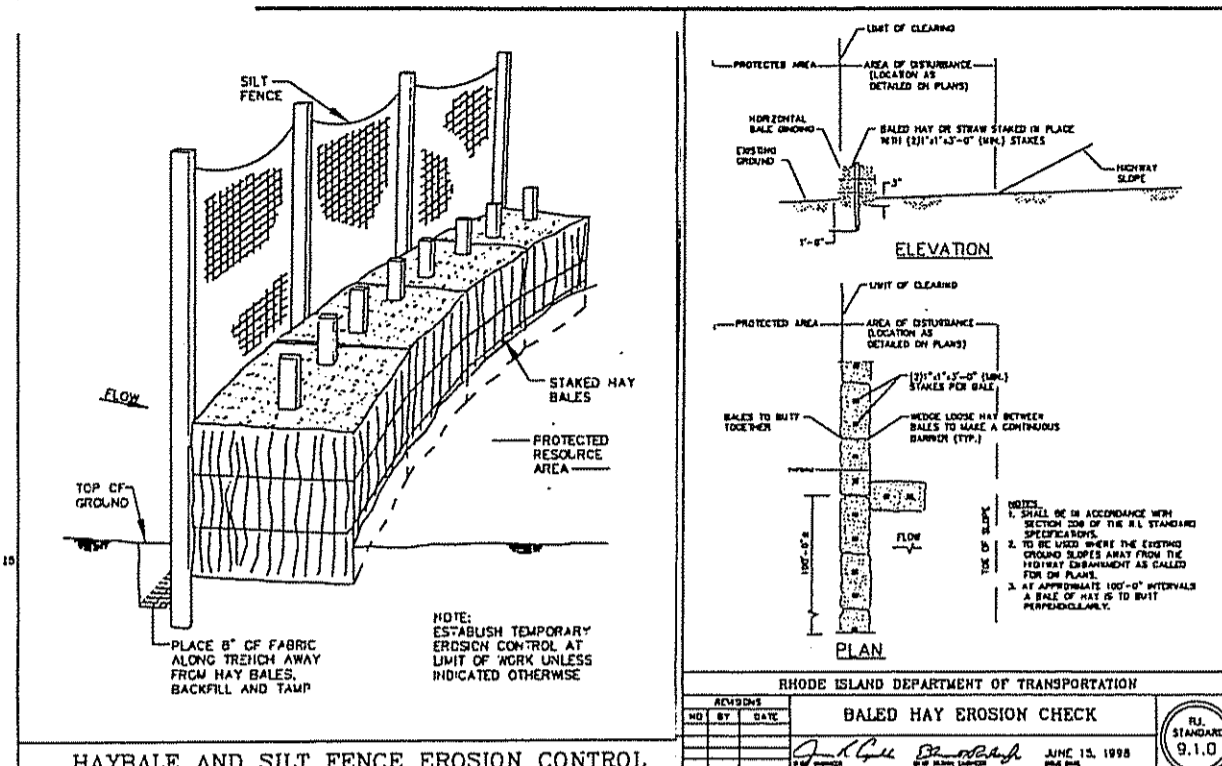
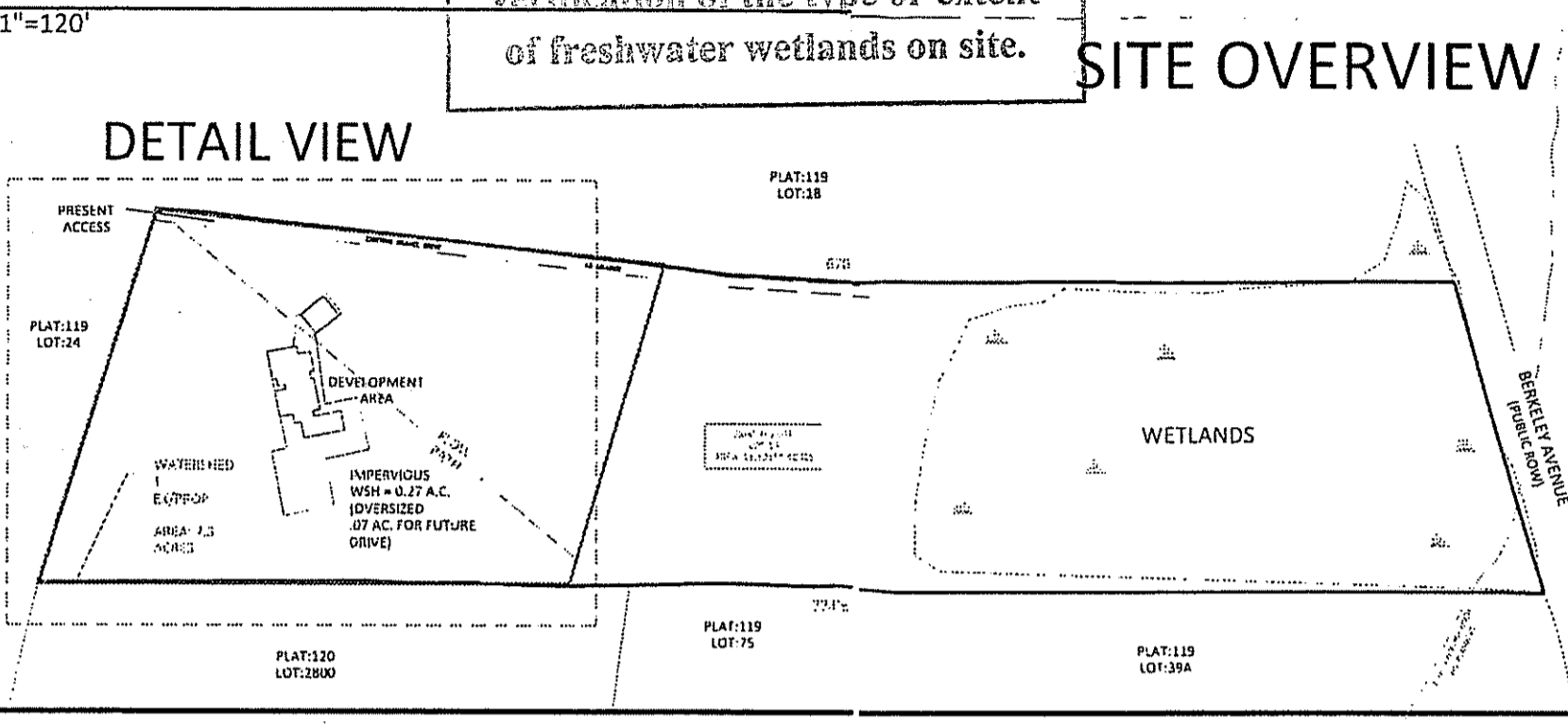
PROJECT #	DATE	DRAWN	CHECK
11.0204	02-03-12	NKH	KH

NO.	DATE	DESCRIPTION	BY
REV. 1	PER TOWN	ENGINEERING COMMENTS	
04.06.12			

REV.	REMOVE GREEN	ROOF, PER COMMENTS
04.13.12		



SHEET	SCALE
1 OF 1	1"=30'



**GENERAL NOTES**

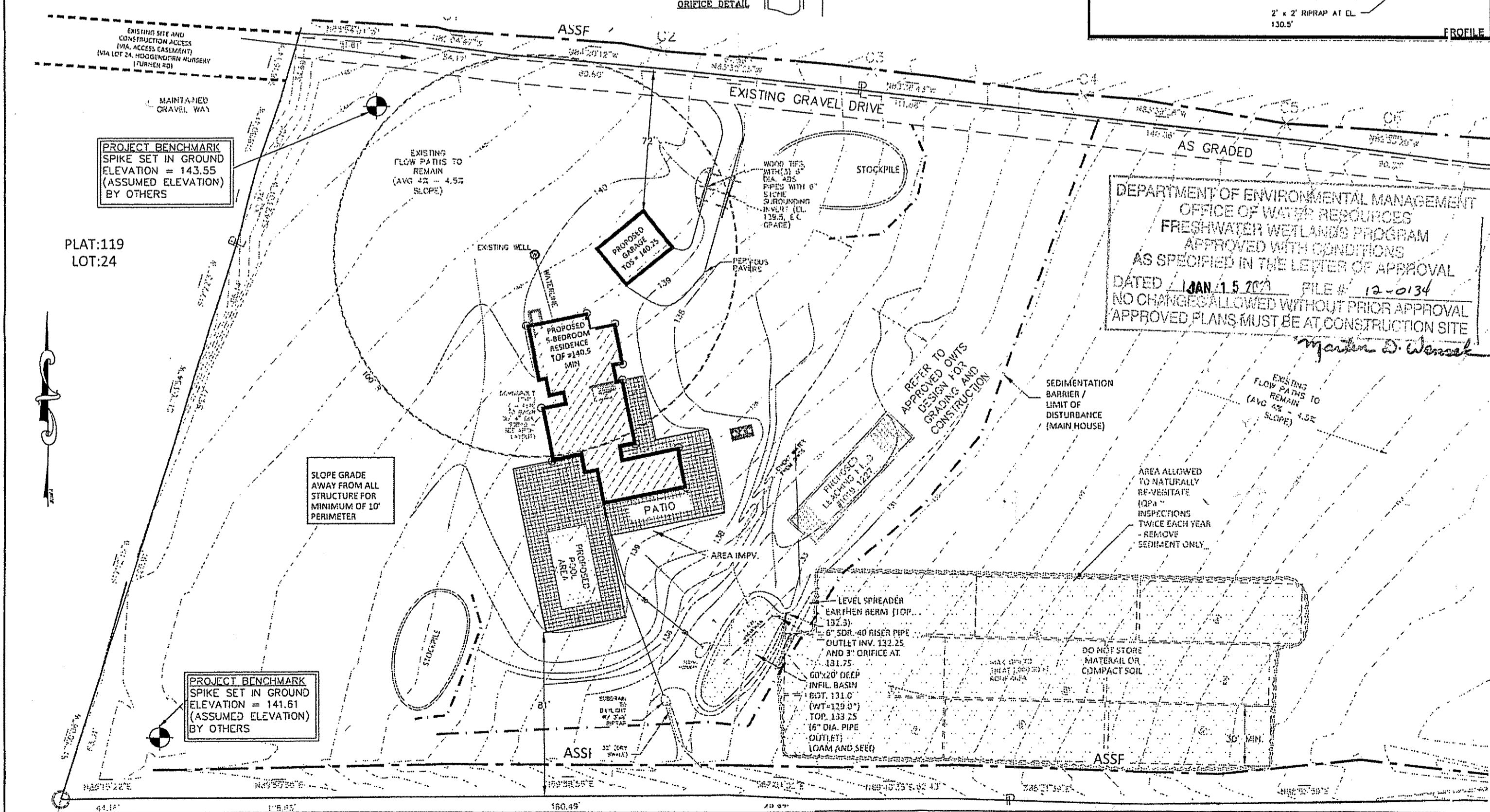
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY THE MUNICIPALITY PRIOR TO COMMENCING ANY WORK.
- IT SHALL ALSO BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES, AND EXISTING PROTECTION. THE COST OF ANY REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE BY THE CONTRACTOR.
- ALL WORK DESCRIBED HEREIN SHALL BE GOVERNED BY THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (EDITION OF 2007).
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR QUANTITY TAKE-OFF IN COMPUTING ANY ESTIMATES.
- ANY UTILITY IS RESPONSIBLE FOR ALL CONSTRUCTION INDICATED ON THESE PLANS. THAT INCLUDES THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
- THE LOCATION OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR. THE R.I. STANDARD SPECIFICATIONS SECTION 202. THE CONTRACTOR SHALL PERFORM THIS WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATIONS SECTION 202.
- ALL EXCESS SOIL, STUMPS, TREES, ROCKS, Boulders, AND OTHER REFUSE SHALL BE DISCARDED OFF SITE, OUTSIDE OF PROJECT AREA.
- SEDIMENTATION CONTROL MAINTENANCE GUIDELINE:**  
IMMEDIATELY UPON COMPLETION OF THE CLEARING AND GRUBBING OPERATION AND PRIOR TO ANY ROUGH GRADING, TEMPORARY BARRIERS AND STRUCTURES SHALL BE PLACED OUTSIDE THE LIMITS OF CONSTRUCTION AS PER THE PLANS.
- ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE PERIODICALLY MAINTAINED AS PER THE RESPECTIVE PROGRAMS FOR TEMPORARY CONTROL.
- IF WORK PROCEEDS TO BE INTERRUPTED AT ANY TIME, RESTORE EROSION AND SEDIMENTATION PROGRAMS FOR TEMPORARY CONTROL.

**EROSION CONTROL & SOIL STABILIZATION PROGRAM:**  
EROSION CONTROL MEASURES SHALL NOT BE UNDESIGNED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WATER SEASON.  
SOIL STABILIZATION MEASURES SHALL BE DESIGNED TO PREVENT EROSION OF EXPOSED SOIL TO OCTOBER 15. SHALL BE MAINTAINED OR REPAIRED AS NECESSARY.

**THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING PERMANENT SEEDING MIXTURES (AS NOTED):**  
1. **PERMANENT SEEDING MIXTURE:** SHALL CONSIST OF A MIXTURE OF 50% BENT GRASS, 50% PERennial FESCUE, AND 50% BENT GRASS. SHALL BE APPLIED AT A RATE OF 2,000 - 4,000 lbs./ac.  
2. **SOIL STABILIZATION MIXTURE:** SHALL BE APPLIED TO ALL AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR.  
3. **SOIL STABILIZATION MIXTURE:** SHALL BE APPLIED TO ALL AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR.  
4. **SOIL STABILIZATION MIXTURE:** SHALL BE APPLIED TO ALL AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR.

**SEQUENCE OF CONSTRUCTION ACTIVITY**

- ALL SEDIMENTATION CONTROL MEASURES SHALL BE PLACED BEFORE START OF ANY SOIL STRIPPING IS COMPLETED.
- SEDIMENTATION POND SHALL BE EXCAVATED AND BEFORE ANY SOIL IS STRIPPED.
- SEDIMENTATION POND SHALL BE MAINTAINED UNTIL CONSTRUCTION ACTIVITY EXCEPTING FINISH ASPHALT SURFACE LAYDOWN IS COMPLETED.



**WETLAND FLAGGING:**  
FLAGGED WETLAND EDGE SHOWN IS BASED ON DELINEATION BY CRAIG WOOD, P.W.S. DATED DECEMBER 9, 2011

LOCATION OF SUBSURFACE UTILITIES OMITTED FROM PLAN FOR CLARITY CONTRACTOR TO CALL DIG SAFE AND/OR APPLICABLE UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION. DIG SAFE TEL: #1-800-344-7233 (1-800-DIG-SAFE).

Table 3-1 Design Rainfall Amounts for Rhode Island

Ri County	1 Year	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year
Providence County	2.7	3.1	4.1	4.9	6.1	7.3	8.7
Dorset County	2.5	3.1	4.1	4.9	6.1	7.3	8.6
Westerly County	2.8	3.1	4.1	4.9	6.1	7.3	8.6

**IMPERVIOUS AREA TABLE**

ITEM	SQ. FT.
MAIN STRUCTURE	3,630
PATIO	4,364
DRIVEWAY	792
LIVING ROOF	8,000
TOTAL	17,586

USE 80' x 30' OPa (VEGETATED AREA)  
PER 1,000 SQ.FT. ROOF / PATIO RUNOFF.  
USE 8.5 - 9.0 PPa AS SHOWN

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**ZONING REQUIREMENTS:**  
ZONE: R-60 (RESIDENTIAL DISTRICT) AND WATER PROTECTION DISTRICT ZONE-1-2

MINIMUM LOT AREA: 60,000 SQ.FT.  
MINIMUM LOT FRONTAGE: 200 FEET

**MINIMUM SETBACKS:**  
FRONT YARD: 40 FEET  
SIDE YARD: 30 FEET  
REAR YARD: 60 FEET  
MAXIMUM HEIGHT: 35 FEET  
BUILDING COVERAGE: 15%

ACCESSORY STRUCTURE:  
30' FROM SIDELINE

**FLOOD ZONE:**  
-SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE "X" AND ZONE "AE", AS PER FEMA COMMUNITY PANEL NO: 1400SC0094H, PARCEL 94 OF 228 DATED APRIL 5TH, 2010.

**REFERENCES:**  
-LAND EVIDENCE BOOK: DC2008 PAGE: 0098  
-LAND EVIDENCE BOOK: 0041 PAGE: 00451

**LEGEND:**

- PROPERTY LINE
- ADJUTER LOT LINE
- STONEWALL
- ASSF LINE
- FLAGGED WETLAND LINE
- SEDIMENTATION BARRIER
- LIMIT OF DISTURBANCE
- PROPOSED CONTOUR
- EXISTING CONTOUR

