

PLANTING NOTES

- LIMIT OF DISTURBANCE LINES WITHIN JURISDICTIONAL WETLANDS SHALL BE MAINTAINED WITH A CONTINUOUS ROW OF NORTHERN WHITE CEDARS (*THUJA OCCIDENTALIS*), 5'-6\"/>
- ANY PLANTING WHICH FAILS TO SURVIVE FOR ONE FULL GROWING SEASON SHALL BE REPLACED AT NO COST TO THE OWNER OR DEVELOPER. REPLACEMENT PLANTINGS SHALL BE SIMILARLY GUARANTEED FOR ONE FULL YEAR.
- ALL DISTURBED AREAS WITHIN JURISDICTIONAL WETLANDS SHALL BE STABILIZED WITH 4\"/>
- ALL OTHER DISTURBED AREAS SHALL BE STABILIZED WITH 4\"/>

RAIN GARDEN MAINTENANCE

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 ensure proper functioning, plant growth and survival. Plants shall be replaced on an as-needed basis during the growing season. Soil/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. Fertilizer or pesticides shall not be applied to plants within rain gardens. Soil erosion gullies shall be repaired when they occur. 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.

GENERAL NOTES

- ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (REVISION OF 1987) WITH ALL CORRECTIONS AND ADDENDA AND THE 1998 R.I. STANDARD DETAILS WITH ALL CORRECTIONS AND ADDENDA.
- EMBANKMENT SLOPES AND ALL DISTURBED AREAS ARE TO RECEIVE 4\"/>
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
- IN ALL EXCAVATION AND REPLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.
- ALL EXCESS SOIL, STUMPS, TREES, ROCKS, BouldERS AND OTHER REFUSE SHALL BE DISCARDED OFF-SITE OUTSIDE OF ALL WETLANDS AND WETLANDS SETBACK AREAS UNLESS OTHERWISE SPECIFIED.
- ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF ALL STATE AND TOWN REGULATIONS AND PERMITS.

ORDER OF PROCEDURE

- PRIOR TO ANY CONSTRUCTION OR EXCAVATION, HAYBALES OR SILT FENCE SHALL BE INSTALLED AT THE PROPERTY LINE OR LIMIT OF DISTURBANCE. TEMPORARY HAYBALES OR SILT FENCE SHALL BE INSTALLED AT THE LIMIT OF WORK ACTIVITY IF CONSTRUCTION IS TO BE DONE IN PHASES.
- ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE PERIODICALLY MAINTAINED AS PER THE RESPECTIVE PROGRAMS FOR TEMPORARY CONTROL.
- IF WORK PROGRESS IS TO BE INTERRUPTED AT ANY TIME, REFERENCE EROSION AND SEDIMENTATION PROGRAMS FOR TEMPORARY CONTROL.
- TEMPORARY HAYBALES AND SANDBAGS ALONG AND AT THE ENDS OF ROADWAYS MAY ALSO BE REMOVED AFTER FINAL SOIL STABILIZATION HAS BEEN ACHIEVED AND APPROVED.
- HAYBALES LOCATED AT DRAINAGE INLETS OR OUTLETS MUST REMAIN UNTIL SUCH TIME THAT A DESIRABLE STAND OF GRASS OR GROUND COVER HAS BEEN ESTABLISHED AND THE PROJECT RECEIVES A FAVORABLE APPROVAL FOR FINAL ACCEPTANCE FROM THE ENGINEER.

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 PERCENT SHALL BE SEEDED AS SOON AS POSSIBLE AND SHALL BE PROTECTED WITH A HAY, STRAW OR FIBER MULCH.
- 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 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.
- REFERENCE THE "R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE, 1989, AS A GUIDE.

EROSION CONTROL & SOIL STABILIZATION PROGRAM

- DEVELOPED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
- 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.
- THE TOP SOIL SHALL HAVE A SANDY LOAM TEXTURE, RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH R.I. STANDARD SPECIFICATION M. 20.
- THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
- THE DESIGN MIX SHALL BE COMPOSED OF THE FOLLOWING PERMANENT SEEDING MIXTURES:
 - MOWED AREA (ALL FLATS OR SLOPES LESS THAN 3:1)

MIXTURE	% BY WT.	SEEDING DATES
RED FESCUE	70	APRIL 1-JUNE 15 AUG. 15-OCT. 15
KENTUCKY BLUEGRASS	15	
COLONIAL BENTGRASS	5	
PERENNIAL RYEGRASS	10	
TOTAL	200 LBS./AC	
 - UNMOWED AREA OR INFREQUENTLY MOWED (FLAT OR SLOPES GREATER THAN 3:1)

MIXTURE	% BY WT.	SEEDING DATES
RED FESCUE	70	APRIL 1-JUNE 15 AUG. 15-OCT. 15
COLONIAL BENTGRASS	5	
PERENNIAL RYEGRASS	10	
BIRDSEED TREFOIL	15	
TOTAL	100 LBS./AC	
 - CONSERVATION SEEDING AREAS

MIXTURE	% BY WT.	SEEDING DATES
TALL FESCUE	35	APRIL 1-JUNE 15 AUG. 15-OCT. 15
RED FESCUE	24	
PERENNIAL RYEGRASS	18	
WILDOATGRASS	15	
REED CANARY GRASS	7	
REDTOP	7	
TOTAL	200 LBS./AC	

SPECIES	LBS./1,000 S.F.	LBS./AC	SEEDING DATES
ANNUAL RYEGRASS	1.0 - 1.5	40 - 60	3/1 - 6/1
PERENNIAL RYEGRASS	1.0 - 1.5	40 - 60	3/1 - 6/1
SUDAN GRASS	0.7 - 1.0	30 - 40	5/15 - 9/15
WINTER RYE	0.7 - 1.0	30 - 40	3/15 - 6/15
	3.0	120	4/15 - 6/15

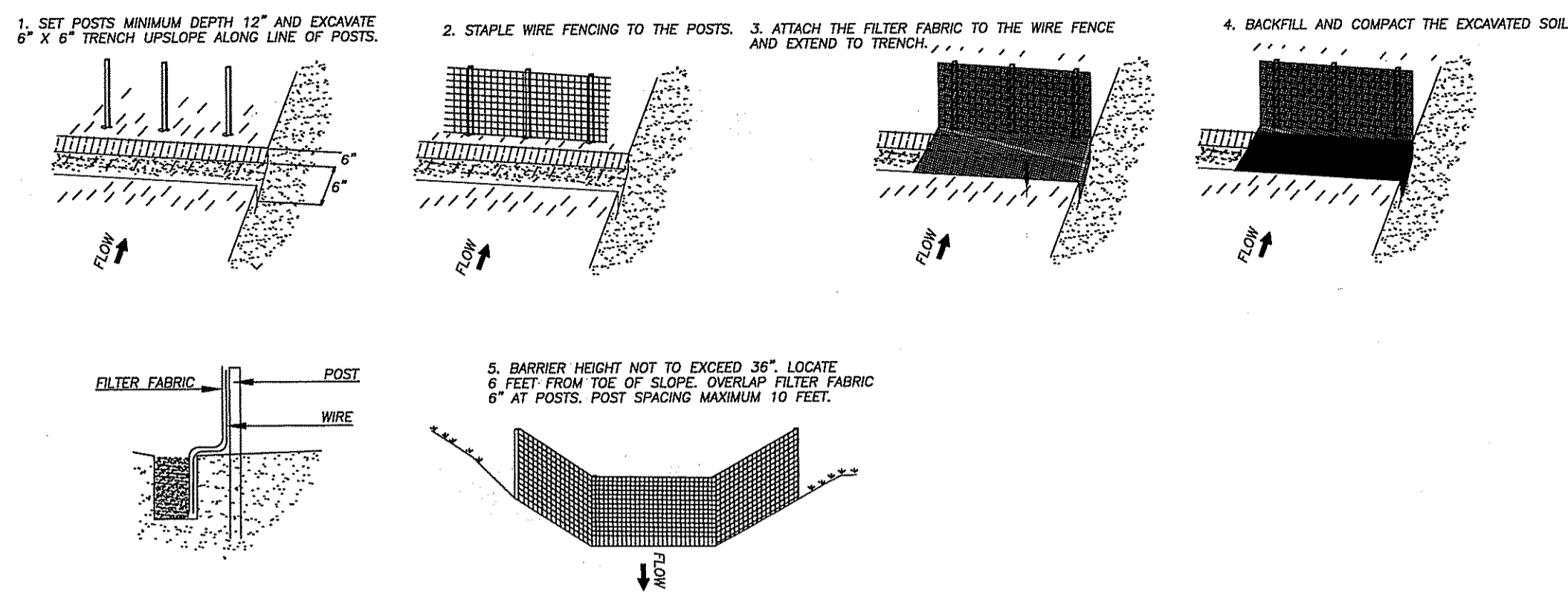
- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1 -
- ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE R.I.D.P.W. STD. SPECIFICATIONS
- STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 15 DAYS OF FINAL GRADING.
- STOCKPILES OF TOPSOILS SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES SHALL ALSO BE SEEDED AND/OR STABILIZED.
- ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
- REFERENCE THE SEDIMENTATION CONTROL PROGRAM AND ORDER OF PROCEDURE FOR PROPER COORDINATION.

GENERAL NOTE: THESE PLANS MAY NOT BE MODIFIED FROM THEIR ORIGINAL FORMAT. THESE PLANS MAY NOT BE DISSEMINATED FOR ANY PURPOSE WITHOUT THE CONSENT OF ALPHA ASSOCIATES, LTD. BY ACCEPTING THESE PLANS, THE PROPERTY OWNER / CONTRACTOR AGREES TO ALL ABOVE TERMS

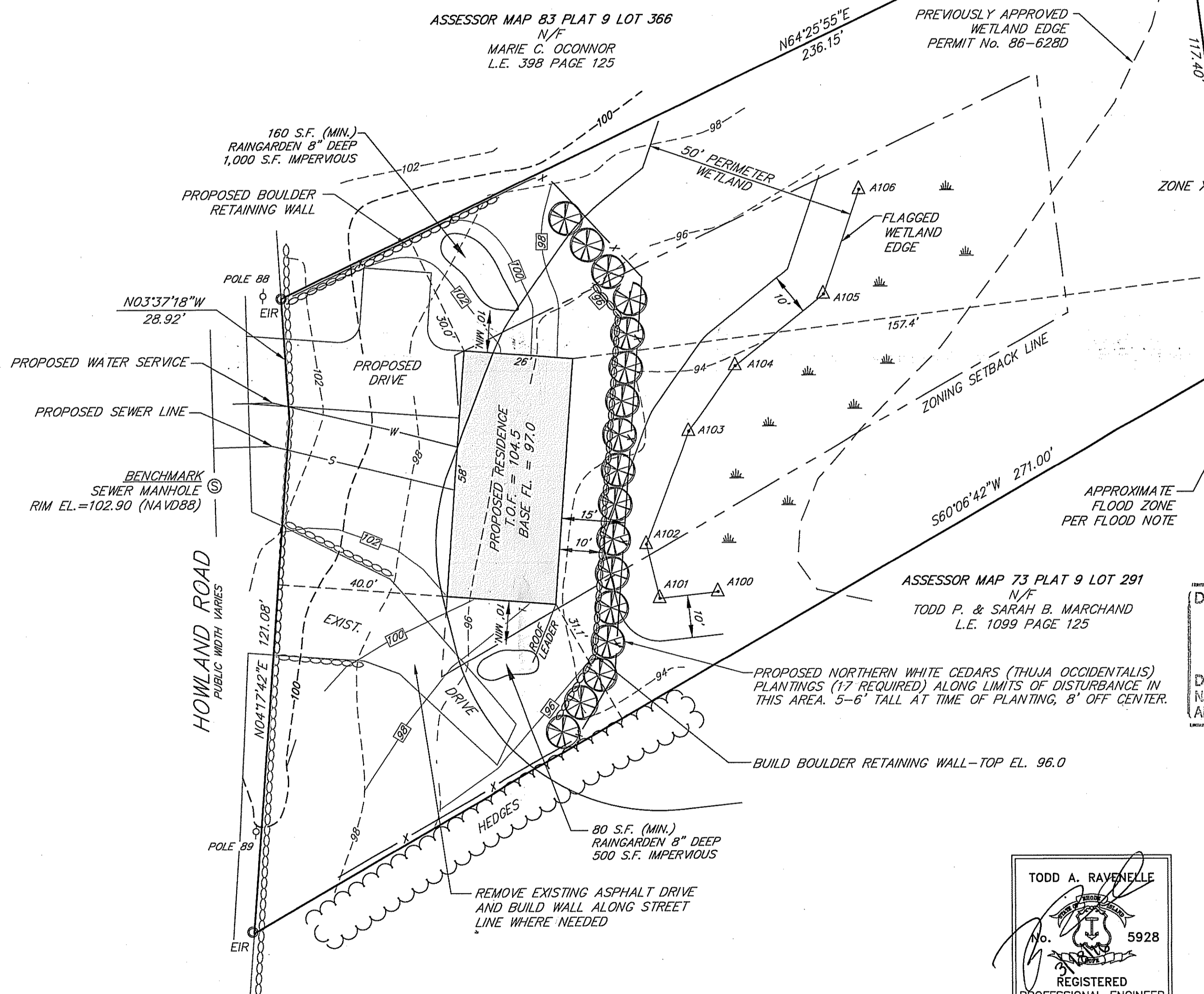
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ALPHA ASSOCIATES, LTD.
PROFESSIONAL LAND SURVEYORS
35 ROCKY HOLLOW ROAD
EAST GREENWICH, RI 02818

SILT FENCE EROSION CHECK DETAIL

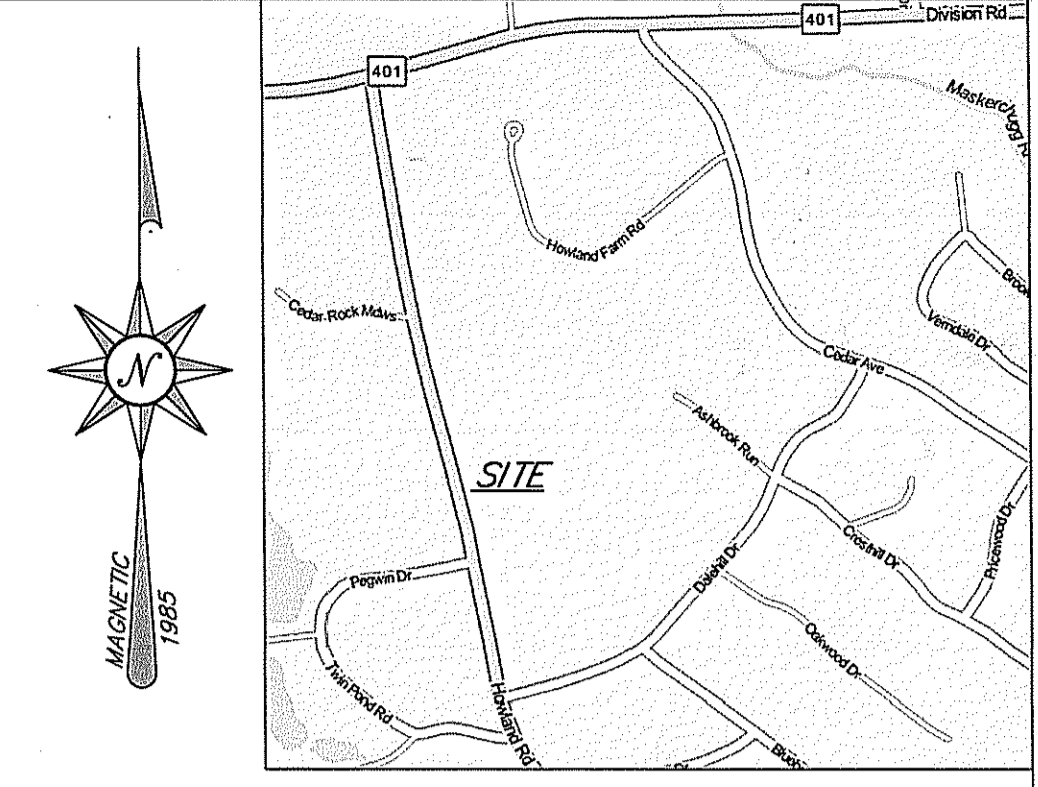


ASSESSOR MAP 83 PLAT 9 LOT 366
N/F
MARIE G. O'CONNOR
L.E. 398 PAGE 125



TODD A. RAVENHILL
5928
REGISTERED PROFESSIONAL ENGINEER

GORDON R. ARCHIBALD, INC.
Professional Engineers
200 MAIN ST., PAWTUCKET, R.I.



LEGEND
 EGB □ EXISTING GRANITE BOUND
 EIR ○ EXISTING IRON ROD
 — EDGE OF PAVEMENT
 — EXISTING STONEWALL
 — EXISTING SEWER/ MANHOLE
 — LIMITS OF DISTURBANCE/SILT FENCE
 - - - 100' - EXISTING CONTOUR
 - - - 200' - PROPOSED CONTOUR

PROJECT SURVEYOR
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NATURAL RESOURCES, INC.
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P. 401.568.7390
F. 401.568.7490

PARCEL OWNER & APPLICANT
JENEET INVESTMENT AND CONSULTING, INC.
303 KILVERT STREET
WARWICK, RHODE ISLAND 02886

PARCEL AREA
30,000 S.F.
4,278± S.F. OF PERIMETER WETLAND TO BE ALTERED

PARCEL ZONING
ZONE "R-30"
MINIMUM LOT SIZE 30,000 SF
MINIMUM FRONTAGE 150'
FRONT YARD 40'
SIDE YARD 30'
REAR YARD 40'

IMPERVIOUS SOILS

	EXISTING	PROPOSED
DRIVEWAY	1,161 S.F.	964 S.F.
DWELLING		1,508 S.F.
TOTAL	1,161 S.F.	2,472 S.F.
TOTAL NET INCREASE =	1,311 S.F.	

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 5 2016 FILE # 15-0274
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

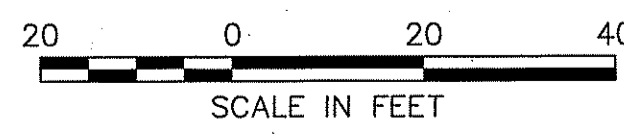
RAIN GARDEN DRAINAGE NOTES:
REFER TO STORMWATER MANAGEMENT INFORMATION & PLAN FOR SIZES AND DEPTHS OF RAIN GARDENS GRADE TO DRAIN FROM ROOF LEADERS TO RAIN GARDENS. S=0.01'/FT. MIN. (0.2' APPROX.)

STORMWATER MANAGEMENT INFORMATION
PROVIDE 160 S.F. 8" DEEP TO TREAT 1000 S.F. OF DRIVEWAY IMPERVIOUS DRIVEWAY TO BE GRADED TOWARDS RAIN GARDEN
PROVIDE 80 S.F. 8" DEEP TO TREAT 500 S.F. OF RESIDENCE IMPERVIOUS GUTTERS TO DRAIN TO RAIN GARDEN

MICHAEL J. McCORMICK
No. 1972
PROFESSIONAL LAND SURVEYOR

THIS SURVEY AND PLAN CONFORM TO A CLASS II STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.
By MICHAEL J. McCORMICK, PLS 1972, RI COA LS-4101
MAR 31 2016

PROPOSED SITE PLAN
ASSESSORS MAP 73, PLAT 9, LOT 369
HOWLAND ROAD
EAST GREENWICH, RHODE ISLAND
PREPARED FOR: JENEET INVESTMENT & CONSULTING, INC.
PREPARED BY: ALPHA ASSOCIATES, LTD.
35 ROCKY HOLLOW ROAD
EAST GREENWICH, RI 02818
T. 401.884.8506 F. 401.884.7747
SCALE: 1"=20' SEPTEMBER 2015 SHEET 1 OF 1
REVISED: 01/18/16, 2-25-16



FLOOD NOTE
ENTIRE PARCEL FALLS IN THE FOLLOWING ZONES PER FEMA FIRM PANEL 136 OF 251, KENT COUNTY, RHODE ISLAND, MAP NUMBER 44003C01366, REVISED DECEMBER 3, 2010:
ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN)
ZONE D (AREAS IN WHICH FLOOD HAZARDS ARE UNDETERMINED, BUT POSSIBLE)

REFERENCES
1. RECORD PLAT No. 507, ENTITLED, "HOWLAND FARM, EAST GREENWICH, R.I., FOR HOWLAND FARM ASSOCIATES, BY S.F.M. ENGINEERING ASSOCIATES, JULY, 1989, REVISED OCT. 1989, SCALE 1"=80'."
2. LAND EVIDENCE BOOK 1236 PAGE 171

PLAN FOR NOTICE