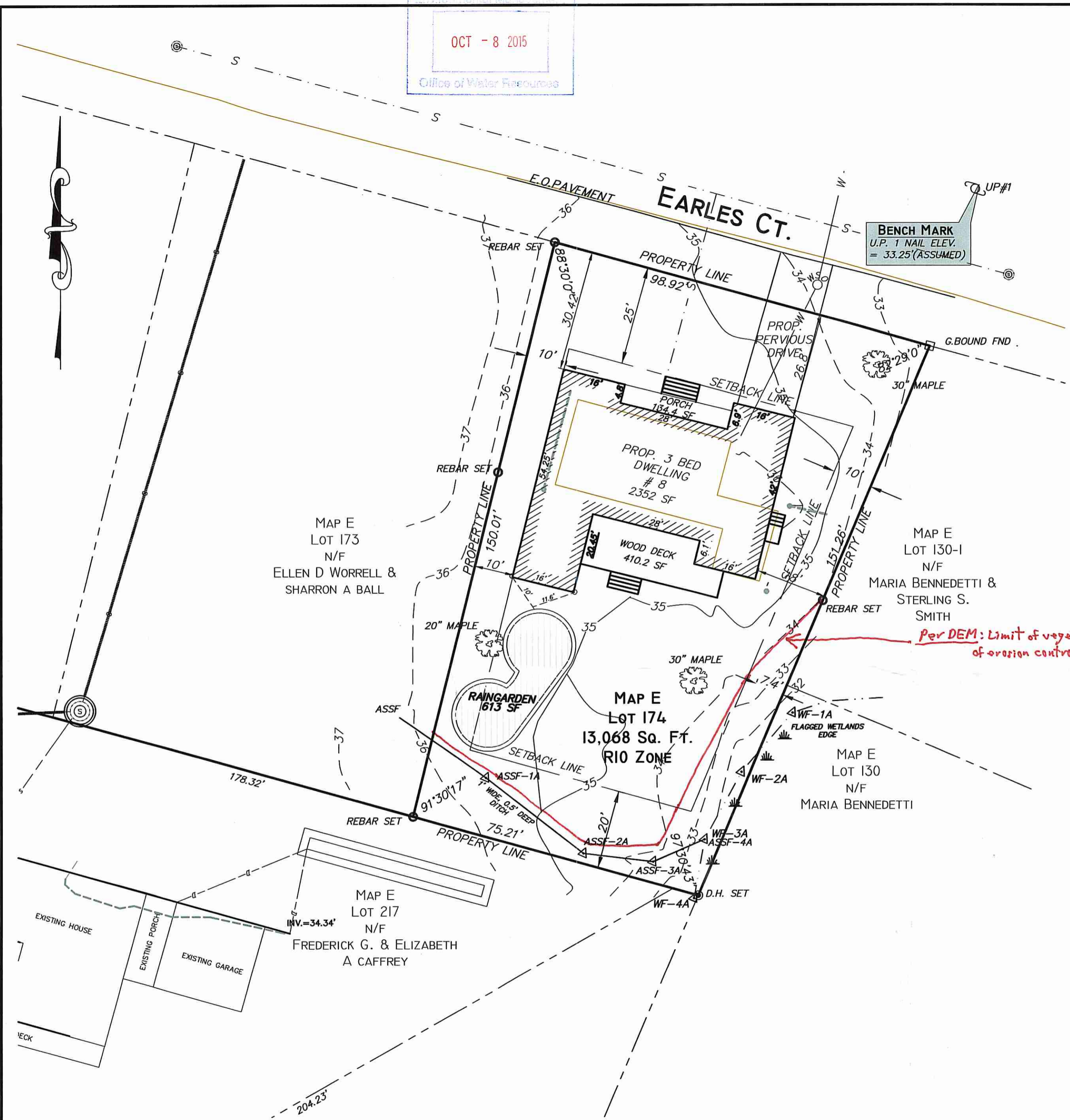


OCT - 8 2015
Office of Water Resources



NOTES

- 1.) SITE IS NOT LOCATED WITHIN A FLOOD ZONE ACCORDING TO FLOOD INSURANCE RATE MAP FOR THE WASHINGTON COUNTY COMMUNITY PANEL NUMBER 44009C0212.J MAP EFFECTIVE DATE OCTOBER 16, 2013.
- 2.) SUBJECT SITE DOES NOT LIE WITHIN A NATURAL HERITAGE AREA. SUBJECT SITE DOES LIE WITHIN A CRITICAL RESOURCE AREA.
- 3.) SUBJECT SITE LIES WITHIN THE NARRAGANSETT HIGH WATER TABLE LIMITATIONS OVERLAY DISTRICT.
- 4.) SUBJECT SITE CONTAINS FLAGGED FRESHWATER WETLANDS BOUNDARIES LABELED 1A THRU 4A, & ASSF FLAGS ASSF 1A THRU 4A. THE SITE LIES WITHIN THE COASTAL & FRESHWATER WETLANDS OVERLAY DISTRICT.
- 5.) REFERENCE PLAN ENTITLED "ANNA OLIVIO PLAT NO 2, IN THE TOWN OF NARRAGANSETT, R.I. AUGUST 1950, ARTHUR J. LATHAM, CIVIL ENGINEER. SCALE: 50' PER INCH." LOT 21 ON ASSESSORS PLAT "E".

RIO ZONING DATA

(FOR LEGALLY CREATED NON CONFORMING LOTS OF RECORD)
* NON-CONFORMING CONDITIONS

	REQUIRED	PRIOR	PROPOSED
LOT AREA	10,000 SF	13,068 SF	13,068 SF
WIDTH	100'	98.92'	98.92'
FRONT YARD	25'	25'	25'
SIDE YARD	10'	10'	10'
REAR YARD	20'	20'	20'
IMPERVIOUS LOT COVERAGE	= 25%	12.4%	17.99%
		(1625.61±SF)	(2352±SF)
IMPERVIOUS INCREASE		= 727.67 SF	(5.59%)

Per DEM: Limit of vegetative clearing and surface or subsurface disturbance and the location of erosion controls (e.g., hay bales, silt fence) to be installed.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 13 2015 FILE # 15-0218
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

THIS SURVEY & PLAN CONFORM TO A CLASS 1 STANDARD AS ADOPTED BY THE RI BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

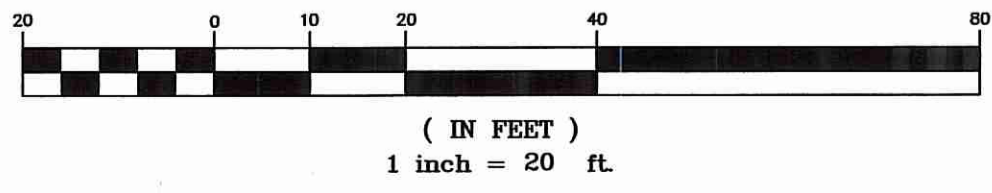
I HEREBY CERTIFY THAT THIS SURVEY WAS ACTUALLY MADE ON THE GROUND AS PER RECORD DESCRIPTION & IS CORRECT. THERE ARE NO ENCROACHMENTS EITHER WAY ACROSS PROPERTY LINES EXCEPT AS SHOWN.

BY: *Wesley Grant III* DATE: 10/8/15
WESLEY GRANT III, PLS

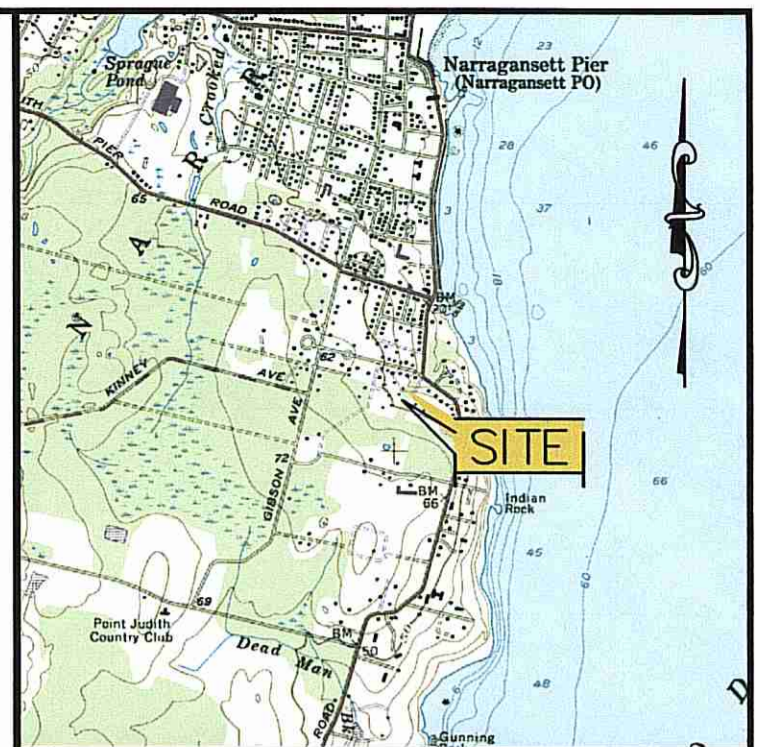
EXISTING PLAN VIEW

SCALE: 1" = 20'

GRAPHIC SCALE



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



LEGEND

- 21 — EXISTING CONTOUR
- ROAD EDGE
- PROPERTY LINE
- FLAGGED WETLANDS
- ASSF AREA SUBJECT TO STORM FLOWAGE
- IPF IRON PIPE FOUND
- GBF GRANITE BOUND FOUND
- G — GAS LINE
- W — WATER LINE
- ⊕ WATER SHUTOFF
- U.P. 24 ○ UTILITY POLE
- S — SEWER LINE

SITE PLAN FOR PROPOSED HOUSE

PREPARED FOR:
BARBARA BUSH
8 EARLES COURT
NARRAGANSETT, RI 02882

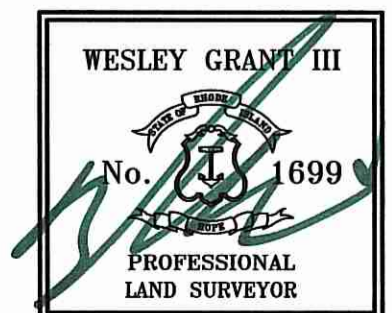
FOR PROPERTY LOCATED ON:
EARLES COURT

IN THE TOWN OF:
NARRAGANSETT, RHODE ISLAND
MAP E, LOT 174

R 10 ZONING

#	DATE	DESCRIPTION	BY
1	7-29-15	ADD IMPERVIOUS	ZMD

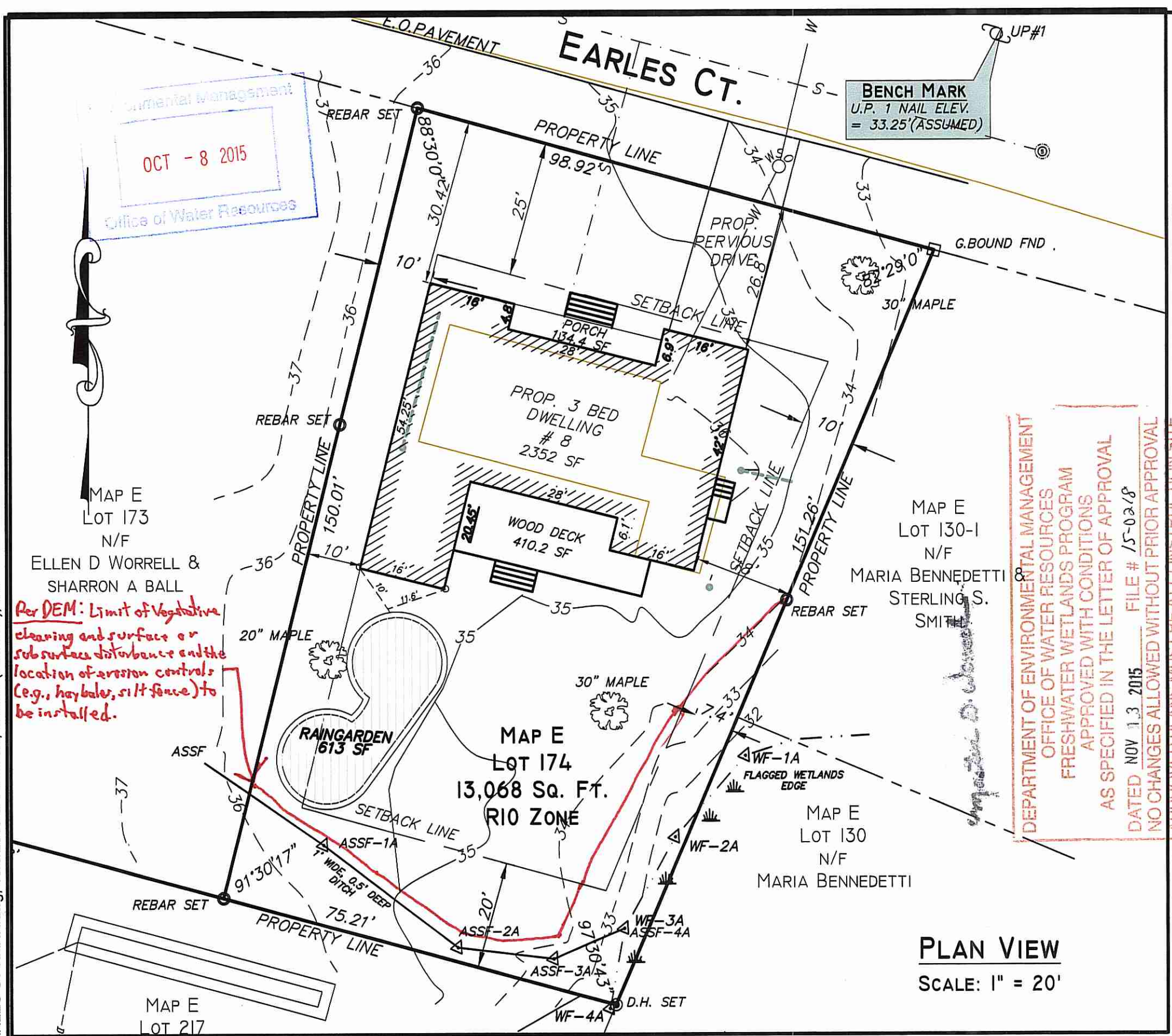
DRAWN BY: AHH/ZMD DATE: SEPT. 2014
CHECKED BY: WGIII DRAWING #: 8038001
JOB #: 8038002 SHEET: 1 OF 2



ENVIRONMENTAL PLANNING & SURVEYING, INC.
CIVIL ENGINEERING
SURVEYING
CAD DRAFTING

G:\Land Projects\8038001 BUSH SURVEY SITE PLAN EARLES CT NARR.dwg, 10/8/2015 8:04:37 AM, 18"x24" (ARCH C), 1:1

G:\Land Projects\8038001 BUSH SURVEY SITE PLAN EARLES CT NARR.dwg, 10/8/2015 8:11:55 AM, 18"x24"(ARCH C), 1:1



EROSION CONTROL PROGRAM
 PRIOR TO START OF CONSTRUCTION, HAYBALES, SILT FENCES & ALL OTHER SPECIFIED EROSION CONTROL FENCES SHALL BE IN PLACE. CRITICAL AREAS SUCH AS WETLAND AREAS, SLOPES & STREAMS SHALL BE PROTECTED AS PER PLAN AND, IN THE PRESENCE OF WETLANDS, THE CONDITIONS OF THE ASSENT ORDER SHALL BE ADHERED TO. THE CONTRACTOR SHALL BE REQUIRED TO ESTABLISH AND FULLY MAINTAIN ALL REQUIRED EROSION AND SEDIMENTATION CONTROLS.

SEDIMENTATION CONTROL PROGRAM
 ALL EXPOSED SLOPES, INCLUDING STOCKPILES OF MATERIAL, SHALL RECEIVE TEMPORARY SEDIMENTATION & EROSION CONTROLS. THIS WILL INCLUDE LOAMING & SEEDING, MULCHING, HAYMATS, ETC TO STABILIZE THE AREA. ALL DRAINAGE STRUCTURES SHALL BE SURROUNDED BY HAYBALES TO PREVENT INFILTRATION OF SEDIMENTS. SHOULD SEDIMENTS ENTER A CRITICAL AREA (WETLAND, BUFFER ZONE, ABUTTING PROPERTY) THE CONTRACTOR SHALL IMMEDIATELY CLEAN & RESTORE THE EFFECTED AREA.

GENERAL NOTES

- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY & ALL PERMITS REQUIRED BY THE STATE & THE MUNICIPALITY IN WHICH WORK IS BEING PERFORMED PRIOR TO START OF ANY WORK.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DOCUMENT EXISTING CONDITIONS OF SURROUNDING PROPERTIES & TO MAINTAIN THE INTEGRITY OF SAME. ANY DAMAGE TO & THE COST OF REPAIRS OF UTILITIES, ROADWAYS, STRUCTURES & SURROUNDING PROPERTY SHALL BE FULLY BORNE BY THE CONTRACTOR.
- ALL WORKMANSHIP & MATERIALS SHALL MEET OR EXCEED THE LATEST STANDARDS OF THE MUNICIPALITY, AND THE LATEST STATE STANDARDS & SPECIFICATION PUBLISHED FOR ROAD & BRIDGE CONSTRUCTION.
- CONTACT DIG-SAFE & UTILITY COMPANIES FOR EXACT ON-SITE LOCATION OF EXISTING UNDERGROUND UTILITIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN REQUIRED INSPECTION SCHEDULE OF THE MUNICIPALITY. UTILITY COMPANIES & ALL OTHER REQUIRED PARTIES & SHALL STRICTLY ADHERE TO THOSE REQUIREMENTS.
- ALL CONTRACTORS SHALL ADHERE TO ALL CONDITIONS OF CONSTRUCTION APPROVALS & SHALL KEEP A COPY OF ALL APPROVALS ON-SITE DURING CONSTRUCTION. CONTRACTOR SHALL READ ALL APPROVALS PRIOR TO START OF CONSTRUCTION & SHALL CLARIFY ANY QUESTIONS BEFOREHAND.

SOIL STABILIZATION & PLANTING PROGRAM
 ACCEPTABLE PLANTING MATERIALS:
 LOAM - THE MATERIAL TO BE FURNISHED SHALL CONSIST OF LOOSE, FRIABLE, SANDY LOAM OR LOAM TOPSOIL FREE OF A MIXTURE OF SUBSOIL, REFUSE STUMPS, ROOTS, ROCKS, BRUSH, WEEDS & OTHER MATERIAL WHICH WILL PREVENT THE FORMATION OF A SUITABLE SEED BED.
 SEED MIXTURES - ALL LEGUME SEED SHALL BE INOCULATED WITH 24 HOURS BEFORE MIXING & PLANTING WITH THE APPROPRIATE INOCULUM FOR EACH VARIETY. ALL INOCULA SHALL BE FRESH & SHALL BE USED WITHIN THE DATE LIMIT PRESCRIBED BY THE MANUFACTURER.

FOR RELATIVELY FLAT SLOPES MIX:

RED FESCUE-CHEWINGS PENNLAWN OR CREEPING KENTUCKY BLUEGRASS	70
PERENNIAL RYEGRASS	15
COLONIAL BENTGRASS (ASTORIA OR EXETER)	5
PERENNIAL RYEGRASS	10

FOR STEEP SLOPES 3:1 OR GREATER MIX:

RED FESCUE-CHEWINGS PENNLAWN OR CREEPING PERENNIAL RYEGRASS	75
COLONIAL BENTGRASS (ASTORIA OR EXETER)	5
BIRDSFOOT TREFLOIL (EMPIRE)	5
CREEPING RED FESCUE	15
TALL FESCUE OR REED CANARY GRASS	50

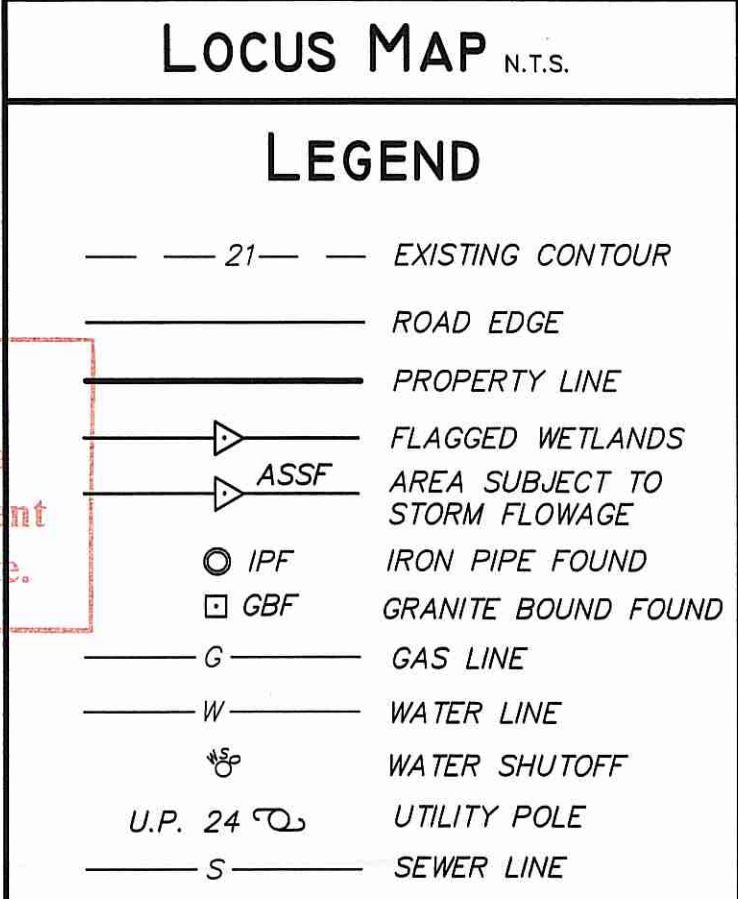
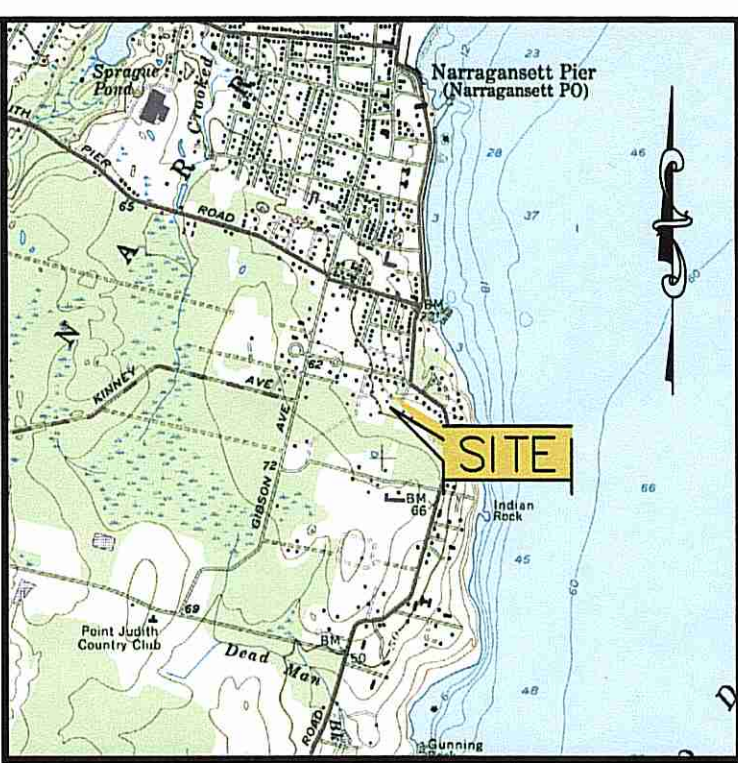
FOR SOD WATERWAYS, DRAINAGE DITCHES & DRAINAGE BASINS MIX:

CREEPING RED FESCUE	50
TALL FESCUE OR REED CANARY GRASS	50

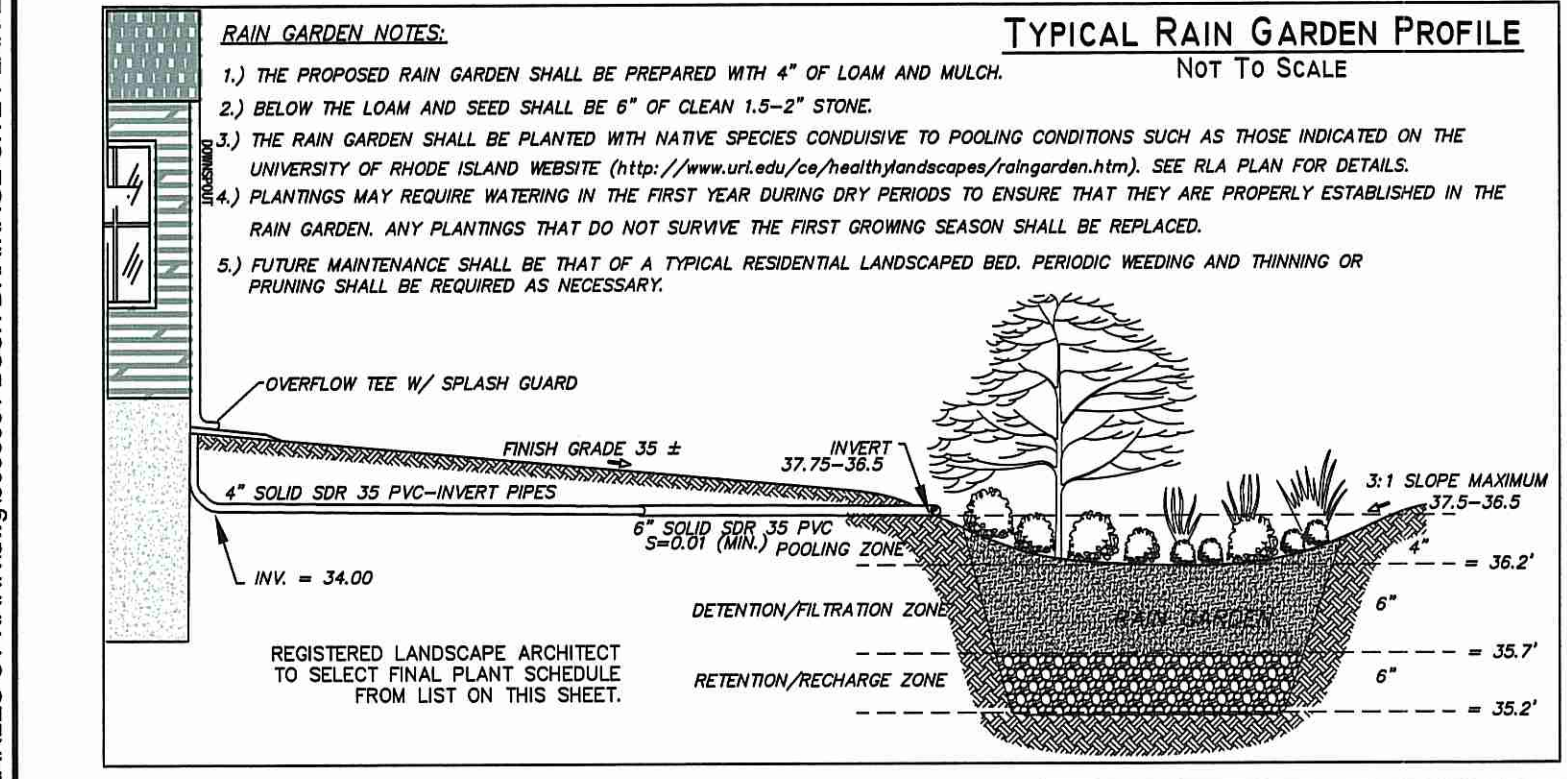
SEEDING RATE = 100 LBS PER ACRE
 USE REED CANARY GRASS WHERE MOWING IS NOT REQUIRED
 THE ACCEPTED PLANTING SEASON SHALL BE BETWEEN APRIL 1ST AND OCTOBER 15. THE CONTRACTOR SHOULD COORDINATE ON ALL DISTURBED AREAS. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF FOUR (4) INCHES OF LOAM ON AREAS UP TO 10% IN GRADE. ALL AREAS OVER 10% SHALL RECEIVE A MINIMUM OF SIX (6) INCHES. REFERENCE IS HEREBY MADE TO THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL HANDBOOK PUBLISHED BY THE SOIL CONSERVATION SERVICE. THE GUIDELINES SHOWN THEREIN SHOULD BE INCORPORATED INTO THE CONSTRUCTION PRACTICES ON SITE.

NOTES

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RAIN GARDEN PLANT LIST

= PREFERRED PLANT SPECIES TO BE DETERMINED BY R.L.A. @ TIME OF CONSTRUCTION

AMELANCHIER CANADENSIS	SHADBUSH
ARCOSTAPHYLOS UVA-URSI	BEARBERRY
ASTILBE SP.	ASTILBE
CAREX STRICTA	TUSSOCK SEDGE
CLETHRA ALNIFOLIA	SWEET PEPPERBUSH
EUPATORIADELPHUS MACULATUS	SPOTTED TRUMPETWEED
HAMAMELIS VERNALIS	VERNAL WITCHHAZEL
HIBISCUS MOSCHEUTOS	ROSE MALLOW
ILEX GLABRA	INKBERRY HOLLY
ILEX OPACA	AMERICAN HOLLY
ILEX VERTICILLATA	WINTERBERRY HOLLY
IRIS VERSICOLOR	BLUE FLAG
KALMIA LATIFOLIA	MOUNTAIN LAUREL
LEDUM GROENLANDICUM	LABRADOR TEA
PANICUM VIRGATUM	SWITCHGRASS
PHOTINIA MELANOCARPA	BLACK CHOKEBERRY
RHODODENDRON	VISCOSUM SWAMP AZALEA

RIO ZONING DATA
 (FOR LEGALLY CREATED NON CONFORMING LOTS OF RECORD)
 * NON-CONFORMING CONDITIONS

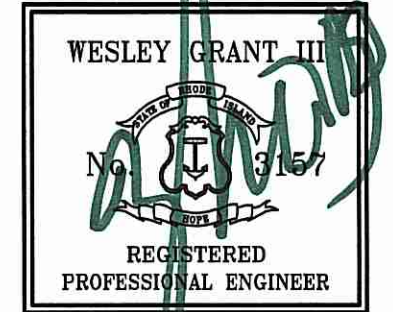
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		(1625.61±SF)	(2352±SF)
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DRAINAGE NOTES

- THE SEASONAL HIGH GROUND WATER TABLE = >1.5', DETERMINED BY A SOIL EVALUATION. THE SOIL IS A SILT LOAM, REFERENCED IN THE RAIN GARDEN DRAINAGE SYSTEM CALCULATIONS. REFERENCE: "SECTION 300.6 OF THE RICMP & RULE 7.16 OF THE DEM RULES & REGULATIONS GOVERNING THE ADMINISTRATION OF THE RI FRESHWATER WETLANDS ACT."
- THE WATER QUALITY VOLUME: 1ST 1" OF RUN OFF OF ONE RAIN GARDEN. THE WATER QUALITY VOLUME IN THIS INSTANCE EXCEEDS D.E.M. REQUIREMENTS. THIS DRAINAGE AREA IS A PRE-CALCULATED SIZE BASED ON THE DRAINAGE AREA, SOIL TEXTURE & DEPTH. THE TOTAL PERVIOUS DRAINAGE AREA IS CALCULATED TO BE 969 SF. RAIN GARDEN-D.A. 969 SF 6" DEEP = 613 SF.
- THE PROPOSED HOUSE ENCLOSES LESS INTO THE 50' WETLANDS SETBACK AREA THAN THE EXISTING HOUSE.

PROPERTY OWNER OF RECORD:

BARBARA BUSH
 8 EARLES COURT
 NARRAGANSETT, RI 02882



ZONING ORDINANCE SECTION 7.7 CERTIFICATION

"THIS PLAN AND ACCOMPANYING CALCULATIONS FOR PROPOSED STORMWATER MANAGEMENT WAS PREPARED IN ACCORDANCE WITH THE PROVISIONS OF THE TOWN OF NARRAGANSETT ZONING ORDINANCE SECTION 7.7 "SUPPLEMENTARY DRAINAGE REQUIREMENTS" AND WAS DESIGNED TO CONFORM TO THE PROVISIONS THEREOF. I UNDERSTAND THAT THE TOWN OF NARRAGANSETT DOES NOT ASSUME LIABILITY FOR STORMWATER MANAGEMENT FACILITIES DESIGNED BY OTHERS."

DRAINAGE PLAN FOR PROPOSED HOUSE

PREPARED FOR:
BARBARA BUSH
 8 EARLES COURT
 NARRAGANSETT, RI 02882

FOR PROPERTY LOCATED ON:
EARLES COURT

IN THE TOWN OF:
NARRAGANSETT, RHODE ISLAND
 MAP E, LOT 174

R IO ZONING

1	7-29-15	ADD IMPERVIOUS	ZMD
#	DATE	DESCRIPTION	BY

DRAWN BY: AHH/ZMD DATE: SEPT. 2014
 CHECKED BY: WGIII DRAWING #: 8038001
 JOB #: 8038002 SHEET: 2 OF 2

ENVIRONMENTAL PLANNING & SURVEYING, INC.
 CIVIL ENGINEERING
 SURVEYING
 CAD DRAFTING

52 DUGWAY BRIDGE RD., WEST KINGSTON, RI 02892 (401) 789-3628