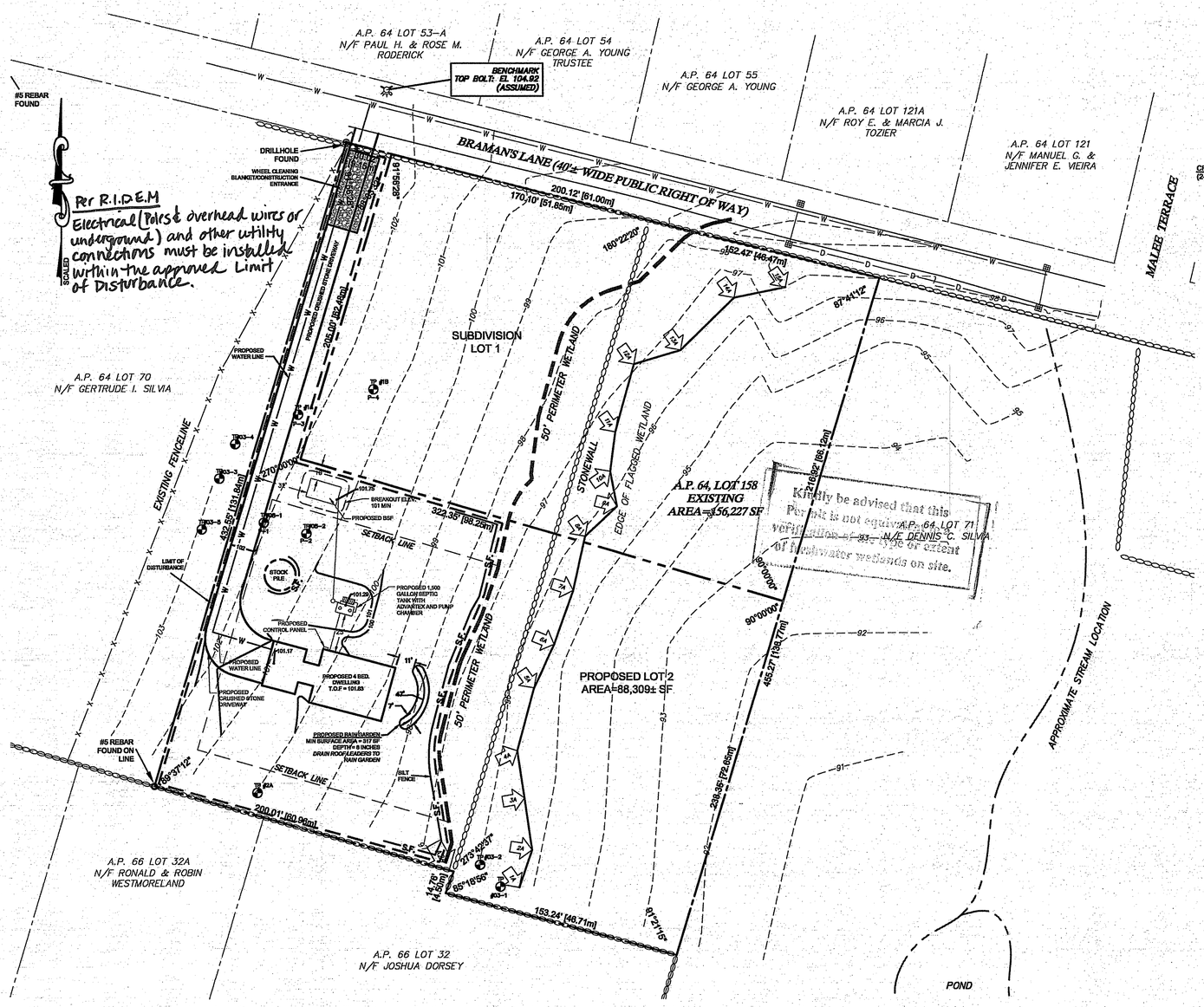
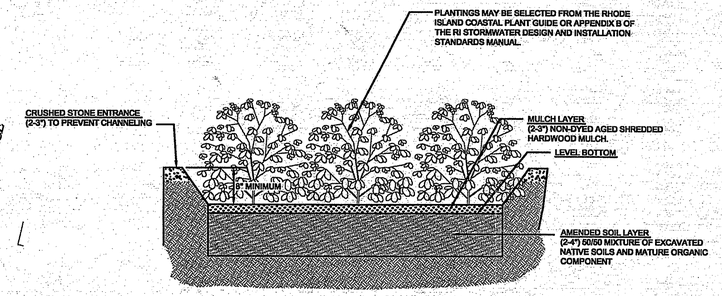




RAIN GARDEN CROSS SECTION

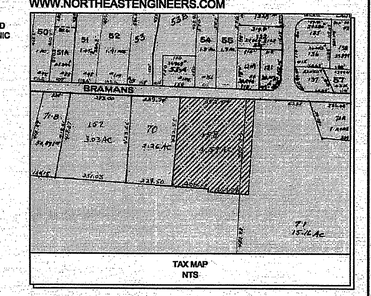
SCALE: NOT TO SCALE

NORTHEAST ENGINEERS & CONSULTANTS, INC.

SITE/CIVIL
LAND PLANNING
WATERFRONT
SURVEYING
GEOTECHNICAL
ENVIRONMENTAL
TRANSPORTATION
STRUCTURAL
MATERIALS TESTING

A KNOWLEDGE CORPORATION®

55 JOHN CLARKE ROAD MIDDLETOWN RHODE ISLAND 02842
PHONE (401) 849-0810 FAX (401) 846-4169
WWW.NORTHEASTENGINEERS.COM



RAIN GARDEN NOTES:

A. BE SURE THAT THE SOIL WITHIN THE RAIN GARDEN AREA DOES NOT BECOME COMPACTED BY CONSTRUCTION ACTIVITIES (I.E. HEAVY MACHINERY). IF SOIL BECOMES SEVERELY COMPACTED IT MAY NEED TO BE TILLED AND AMENDED TO MAINTAIN PROPER DRAINAGE.

B. 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 ASSURE PROPER FUNCTIONING, PLANT GROWTH AND SURVIVAL. PLANTS SHALL BE REPLACED ON AN AS-NEEDED BASIS DURING THE GROWING SEASON.

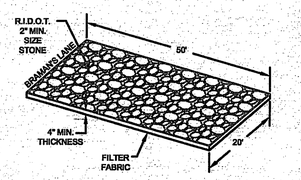
C. SILT/SEDIMENT SHALL BE REMOVED FROM THE RAIN GARDEN WHEN THE ACCUMULATION EXCEEDS ONE INCH, OR WHEN WATER PONDS ON THE SURFACE OF THE RAIN GARDEN FOR MORE THAN 48 HOURS. THE TOP FEW INCHES OF MATERIAL SHALL BE REMOVED AND SHALL BE REPLACED WITH FRESH SOIL MIXTURE AND MULCH.

D. PRUNING OR REPLACEMENT OF WOODY VEGETATION SHALL OCCUR WHEN DEAD OR DYING VEGETATION IS OBSERVED.

E. SOIL EROSION GULLIES SHALL BE REPAIRED WHEN THEY OCCUR.

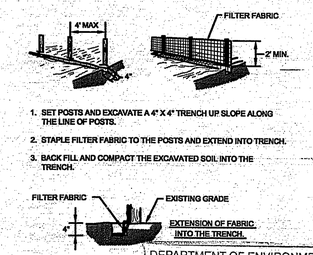
F. FERTILIZER OR PESTICIDES SHALL NOT BE APPLIED TO PLANTS WITHIN RAIN GARDENS.

G. 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.



CONSTRUCTION ENTRANCE

NOT TO SCALE



SILT FENCE

NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF
DATED SEP 18 2014 FILE # 14-0148
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

LEGEND

- PROPERTY LINE
- ABUTTER'S PROPERTY LINE
- 38 — EXISTING CONTOUR
- W — EXISTING WATER LINE
- X — EXISTING FENCE
- EXISTING STONEWALL
- D — EXISTING DRAIN LINE
- ZONING SETBACK
- W — PROPOSED WATER LINE
- 58 — PROPOSED CONTOUR
- WETLAND EDGE
- 50' PERIMETER WETLAND
- EXISTING CATCH BASIN
- EXISTING HYDRANT
- TP #2 — TEST PIPE
- BOUND
- A24 — WETLAND FLAG
- PROPOSED LIMIT OF DISTURBANCE
- S.F. — PROPOSED SILT FENCE & HAYBALE COMBINATION BARRIER

GENERAL NOTES:

1. EXISTING CONDITIONS, PROPERTY LINE INFORMATION, AND NORTH ARROW WERE TAKEN FROM PLAN TITLED, "ADMINISTRATIVE SUBDIVISION, A.P. 64, LOTS 71 & 158", CLASS I SURVEY, PREPARED BY M.J. GASTON & ASSOCIATE, DATED MAY 19, 2008.
2. BASE OF ELEVATIONS IS ASSUMED.
3. WATER LINE LOCATION WAS SCALED FROM PLANS PROVIDED BY THE PORTSMOUTH WATER DEPARTMENT ON JUNE 6, 2008.
4. TEST HOLES #03-3, #03-4, AND #03-5 WERE PERFORMED ON LOT 70.
5. WETLAND EDGE DELINEATED BY KATHLEEN P. MANGAN, 8/5/2013
6. ENTIRE SITE IS LOCATED WITHIN THE R-30 ZONING DISTRICT:
   MIN. LOT SIZE: 30,000 S.F
   MIN. YARD SETBACKS: FRONT 30', SIDE 20', REAR 30'
   MIN. LOT FRONTAGE: 125'

SOIL EROSION & SEDIMENT CONTROL PLANS:

I. CONSTRUCTION SEQUENCE:

A. DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE, AND FEDERAL PERMITS HAVE BEEN APPLIED FOR AND RECEIVED.

B. ESTABLISH PROPERTY LIMITS.

C. INSTALL STONE CONSTRUCTION ENTRANCE.

D. INSTALL SILT FENCE AS DELINEATED ON PLAN.

E. COMMENCE ROUGH GRADING.

F. BEGIN CONSTRUCTION.

G. CONSTRUCT LANDSCAPE AREAS AND MAINTAIN THE SITE IN ACCORDANCE WITH THE MAINTENANCE NOTES.

II. GENERAL NOTES:

A. DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT, WHEN LAND IS EXPOSED DURING DEVELOPMENT. THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME.

B. ANY ROUGH GRADED AREAS DURING CONSTRUCTION SHALL BE STABILIZED WITHIN FOURTEEN DAYS IN ACCORDANCE WITH TEMPORARY MEASURES IN THE VEGETATIVE PRACTICE NOTES.

C. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOP SOIL TO REMOVE VEGETATION, ROOTS, AND ANY OTHER OBJECTIONABLE MATERIAL.

D. ALL FILL SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT SUBSIDENCE, OR OTHER RELATED PROBLEMS.

E. FILL INTENDED TO SUPPORT BUILDING STRUCTURE AND CONDUCTS, ETC., SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL CODES AND SPECIFICATIONS.

F. ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 12" IN THICKNESS.

G. FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LUGS, STUMPS, BUILDING DEBRIS, AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.

H. FROZEN, SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIAL SHALL NOT BE INCORPORATED INTO FILLS.

I. FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION SUBGRADE

J. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

K. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF FINISH GRADING IN ACCORDANCE WITH THE VEGETATIVE PRACTICE NOTES.

L. REMOVE TEMPORARY EROSION CONTROL MEASURES ONCE UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED.

M. HAYBALES ARE TO BE PLACED AT CONSTRUCTION ENTRANCE DURING NON-WORKING HOURS.

III. VEGETATIVE PRACTICE:

A. SLOPES SHALL NOT BE STEEPER THAN 1 VERTICAL TO 3 HORIZONTAL UNLESS OTHERWISE SPECIFIED.

B. A MINIMUM OF 4 INCHES OF LOAM SHALL BE INSTALLED. THE LOAM SHALL BE GRADED TO A SMOOTH CONDITION AND STONES AND OTHER OBJECTS LARGER THAN 2 INCHES SHALL BE REMOVED.

C. LIMESTONE AND FERTILIZER SHALL BE APPLIED TO THE FOLLOWING RATE:
   LIMESTONE: 9 TONS/ACRE
   FERTILIZER: (10-10-10): 600 LBS/ACRE

D. SEED SHALL BE APPLIED AT THE FOLLOWING RATE:
   WINTER RYE: 112 LB/ACRE

E. HAY MULCH SHALL BE APPLIED AT THE RATE OF 1.5 TONS/ACRE.

WATER QUALITY CALCULATIONS	
PARAMETER	VALUE
ROOF AREA	2,528 SF
WQV	211 CF
PROP. RAIN GARDEN DEPTH	8"
PROP. RAIN GARDEN VOLUME	211 CF

GRAPHIC SCALE

40 0 20 40 80 160

(in feet)
1 INCH = 40 FEET

No.	Revision	Date	App.
1	REMOVED LOT 1 PROPOSED CONDITIONS	8/21/14	

Designed By: JMG	Drawn by: DW	Checked by:	
Scale: 1"=40'	Date: JUL 2014		

Project Title:

PAUL SUBDIVISION
A.P. 64, LOT 158
SUBDIVISION LOT 2
BRAMAN'S LANE
PORTSMOUTH, RHODE ISLAND

Client/Owner:
EDWIN PAUL
40 RED CROSS TERRACE
NEWPORT, RI

Issued for:
RIDEM WETLANDS

Drawing Title:

SESC PLAN AND WATER QUALITY CONTROL
SUBDIVISION LOT 2

GERALYN E. SMALL
No. 8550
8-27-14
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Drawing Number: SESC-1
Sheet 1 of 1
Project Number: 13073.0
Survey Index: – –

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R.I.D.E.M COPY