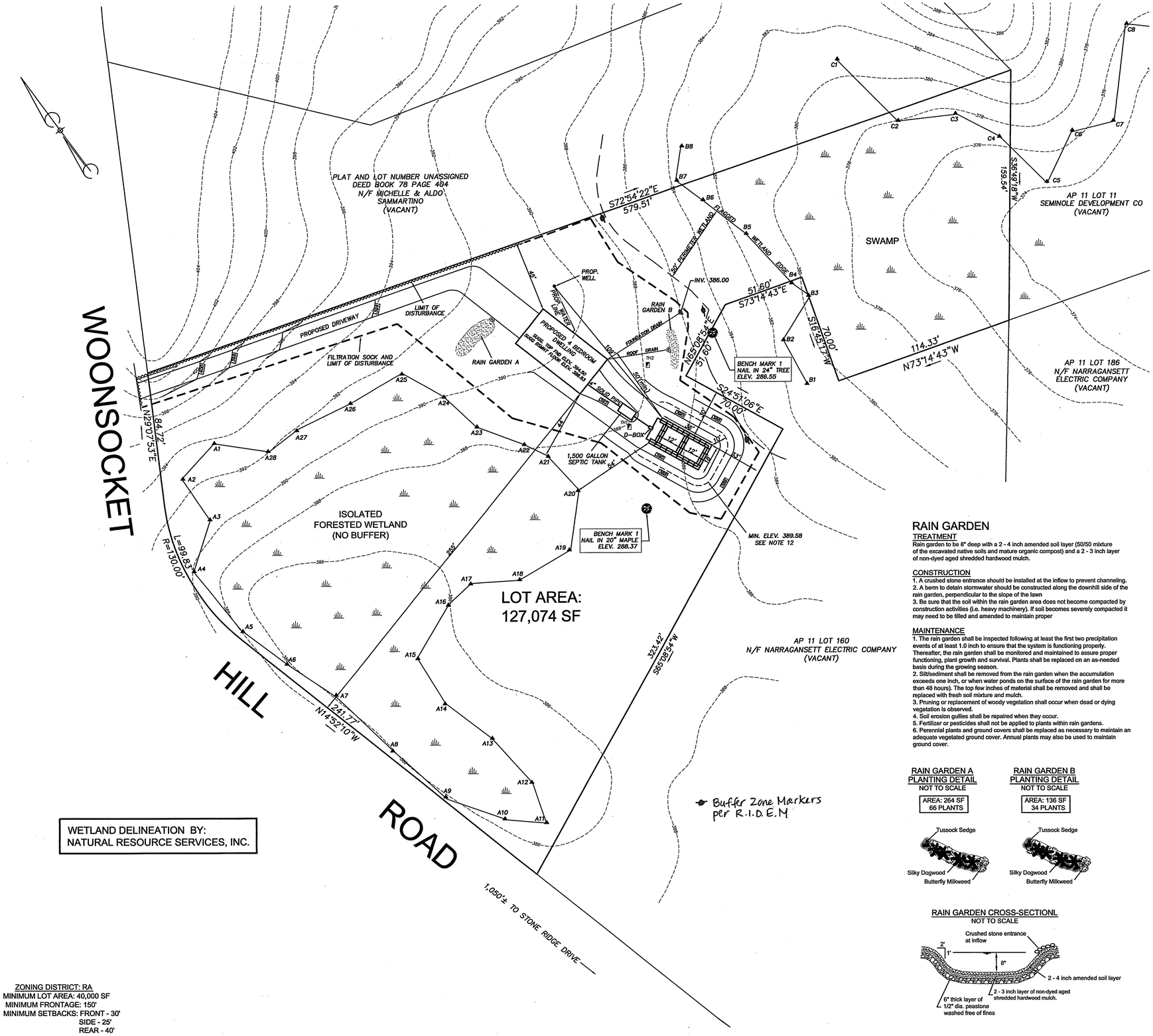


WETLAND DELINEATION BY:
NATURAL RESOURCE SERVICES, INC.

ZONING DISTRICT: RA
MINIMUM LOT AREA: 40,000 SF
MINIMUM FRONTAGE: 150'
MINIMUM SETBACKS: FRONT - 30'
SIDE - 25'
REAR - 40'

RAIN GARDEN

TREATMENT

Rain garden to be 8" deep with a 2 - 4 inch amended soil layer (50/50 mixture of the excavated native soils and mature organic compost) and a 2 - 3 inch layer of non-dyed aged shredded hardwood mulch.

CONSTRUCTION

1. A crushed stone entrance should be installed at the inflow to prevent channeling.
2. A berm to detain stormwater should be constructed along the downhill side of the rain garden, perpendicular to the slope of the lawn
3. 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

MAINTENANCE

1. The rain garden 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.
2. 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.
3. Pruning or replacement of woody vegetation shall occur when dead or dying vegetation is observed.
4. Soil erosion gullies shall be repaired when they occur.
5. Fertilizer or pesticides shall not be applied to plants within rain gardens.
6. 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.

RAIN GARDEN A PLANTING DETAIL
NOT TO SCALE

AREA: 264 SF
66 PLANTS

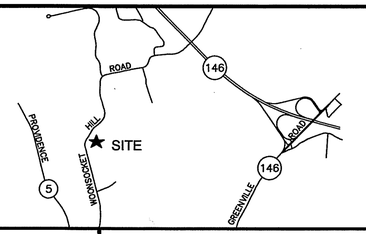
Tussock Sedge
Silky Dogwood
Butterfly Milkweed

RAIN GARDEN B PLANTING DETAIL
NOT TO SCALE

AREA: 136 SF
34 PLANTS

Tussock Sedge
Silky Dogwood
Butterfly Milkweed

RAIN GARDEN CROSS-SECTIONL
NOT TO SCALE

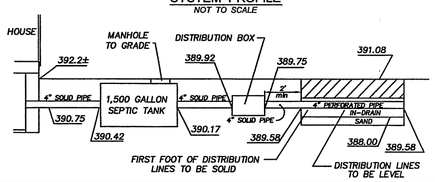


LOCUS MAP
NOT TO SCALE

LEGEND

- EXISTING CONTOUR
- 100A PROPOSED CONTOUR
- TEST HOLE
- FLAGGED WETLAND EDGE

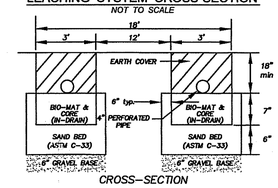
SYSTEM PROFILE
NOT TO SCALE



GENERAL NOTES

1) LEACHING TRENCHES TO BE EXCAVATED IN ACCORDANCE WITH RIDEM OWTS REGULATION 32.9.. A 6 INCH GRAVEL BASE TO BE SET BELOW EACH TRENCH IN ACCORDANCE WITH REGULATION 32.12. TREES, BRUSH AND STUMPS WITHIN AND EXTENDING 10 FEET BEYOND LEACHFIELD TO BE REMOVED. THE LEACHFIELD AND 5 FEET BEYOND THE LEACHFIELD SHALL BE STRIPPED OF ALL TOPSOIL (A HORIZONS). IN ORDER TO AVOID COMPACTION OF THE B SOIL HORIZON, ONLY TRACKED VEHICLES SHALL BE ALLOWED WITHIN THIS AREA.
2) USE SDR #35 PVC PIPING OR EQUIVALENT THROUGHOUT SYSTEM AND SCH. 40 UNDER DRIVEWAY AS SHOWN.
3) NO WELL EXISTS WITHIN 100' OF THE PROPOSED LEACHING SYSTEM.
4) ZABEL EFFLUENT FILTER TO BE INSTALLED AT SEPTIC TANK OUTLET.
5) NO WELLS, EXISTING OR PROPOSED, ARE WITHIN 200' FEET OF OWTS. NO PUBLIC WELLS, EXISTING OR PROPOSED, ARE WITHIN 500' OF THE OWTS UNLESS SHOWN.
6) BRING SEPTIC TANK MANHOLE TO GRADE AND D-BOX MANHOLE TO WITHIN 12" OF GRADE
7) SEPTIC TANK TO BE A MINIMUM OF 75' FROM ALL WELLS.
8) ENDS OF LINES IN TRENCH TO BE INTERCONNECTED.
9) D-BOX TO HAVE A MINIMUM BOTTOM AREA OF 3 SQUARE FEET AND MEET H-20 WHEEL LOADS WITH MARKER SET TO GRADE.
10) SANITARY TEES TO BE INSTALLED IN SEPTIC TANK.
11) NO DRAINS OF ANY KIND SHALL BE WITHIN 25' UP GRADIENT OR SIDE GRADIENT 50' DOWNGRADIENT OF THE LEACHING SYSTEM.
12) 10' FROM LEACHING AREA NOT TO BE LOWER THAN ELEV.: 389.58
13) COVER OVER SEPTIC TANK TO BE GRADED TO DIVERT SURFACE RUNOFF.
14) SYSTEM INSTALLATION TO BE SUPERVISED BY THE DESIGNER.
15) WASHING MACHINE LINT FILTER IS STRONGLY RECOMMENDED TO PREVENT PREMATURE FAILURE OF ELJEN SYSTEM.

LEACHING SYSTEM CROSS-SECTION
NOT TO SCALE



CROSS-SECTION

TEST HOLE DATA
DATE: 3-27-18

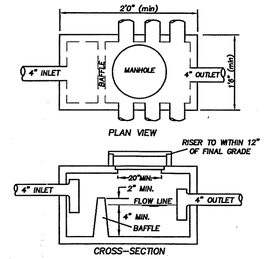
TH1
0"-4" A, SL, 10YR 4/4
4"-24" Bw, SL, 10YR 5/6
24"-72" C, LS 2.5YR 5/3
72"-114" C2, CB, G, SL 2.5YR 5/4
ESHWT 26"
NO LEDGE AT 114"

TH2
0"-8" A, SL, 10YR 4/4
8"-24" Bw, SL, 10YR 5/6
24"-52" C, LS 2.5YR 5/3
52"-118" C2, CB, G, SL 2.5YR 5/4
ESHWT 24"
NO LEDGE AT 118"

DESIGN DATA

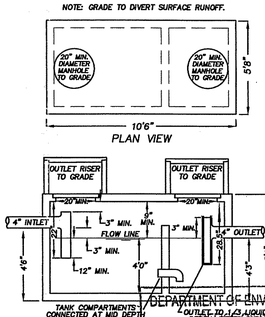
SOIL CATEGORY: 6
LOADING RATE: 0.61
FIELD SIZE: ELJENS
2 LINES
27 ELJENS
756 SF

DISTRIBUTION BOX (D-BOX)
NOT TO SCALE



1,500 GALLON TWO COMPARTMENT SEPTIC TANK
NOT TO SCALE

NOTE: GRADE TO DIVERT SURFACE RUNOFF.



CERTIFICATION

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

LIMITED CONTENT BOUNDARY SURVEY: CLASS IV
TOPOGRAPHIC T-4

STATEMENT OF PURPOSE

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND THE PREPARATION OF THE PLAN IS AS FOLLOWS: PROPOSED HOUSE

BY: Marc N. Nyberg

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MARC N. NYBERG
No. 1797
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ONSITE WASTEWATER TREATMENT SYSTEM AND WETLANDS PLAN
for
SEMINOLE DEVELOPMENT CO.
PLAT 8, LOT 42A
WOONSOCKET HILL ROAD
NORTH SMITHFIELD, RHODE ISLAND
JUNE, 2018
SCALE: 1 INCH EQUALS 30 FEET

GRAPHIC SCALE
0' 30' 60' 90'

No.	DESCRIPTION	DATE

SHEET NUMBER
1 of 1

JOB NUMBER
17-103

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 18-018
DATED SEP 11 2018
SEE LETTER OF SAME DATE.
Nancy L. Freeman

RECEIVED
JUL 12 2018