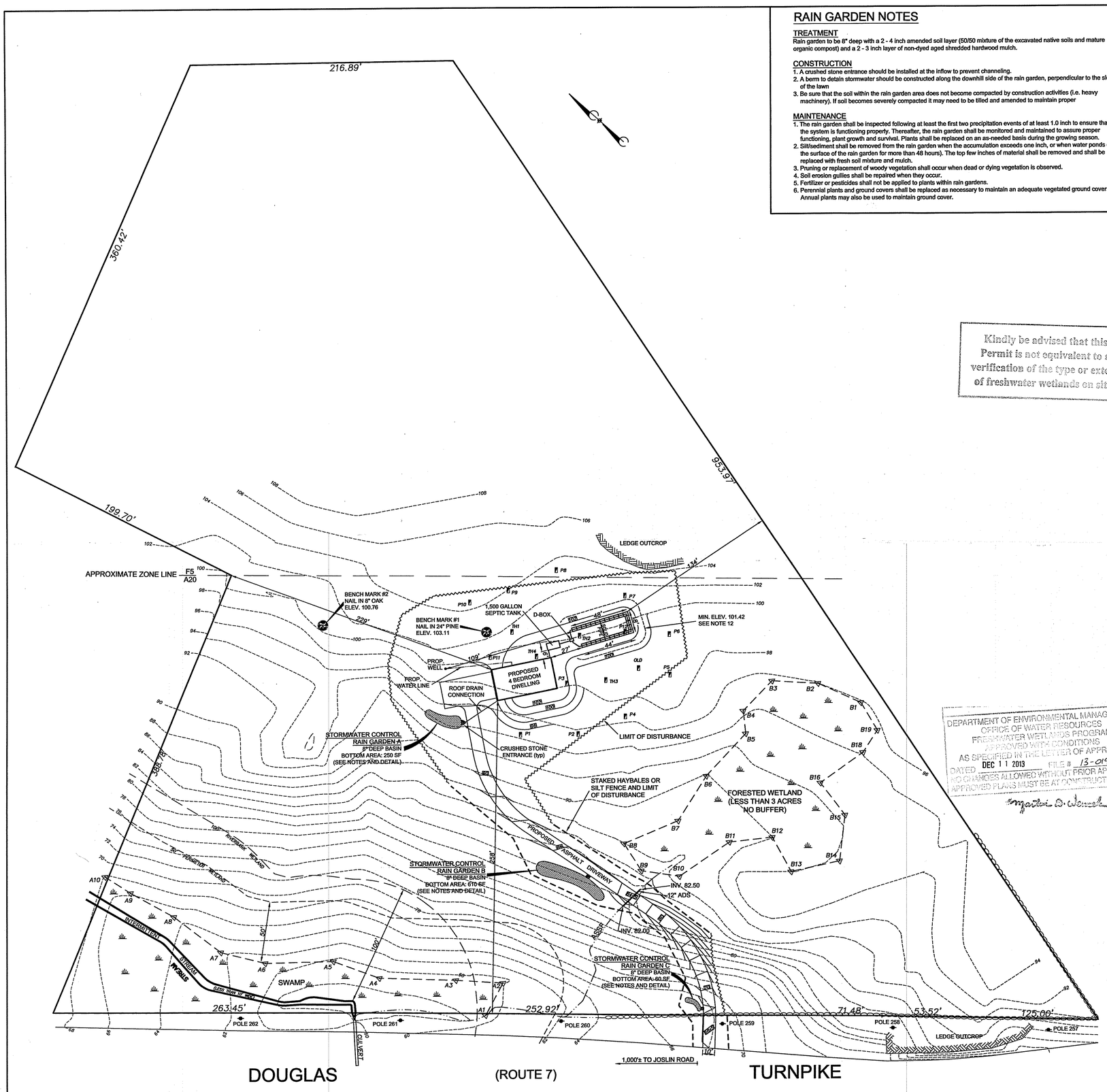


RAIN GARDEN NOTES

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

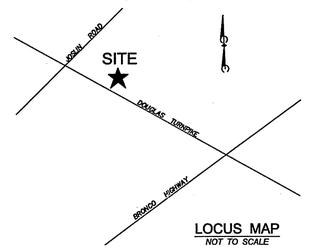
MAINTENANCE

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.

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 11 2013 FILE # 13-0195
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wencek

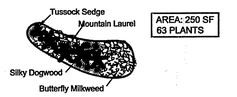


LOCUS MAP
NOT TO SCALE

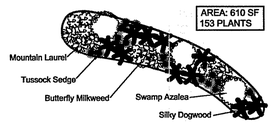
RAIN GARDEN DETAILS

NOT TO SCALE

RAIN GARDEN A PLANTING DETAIL

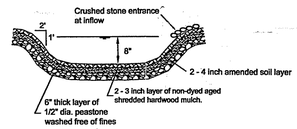


RAIN GARDEN B PLANTING DETAIL



RAIN GARDEN C PLANTING DETAIL

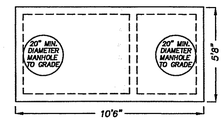
RAIN GARDEN CROSS-SECTIONL



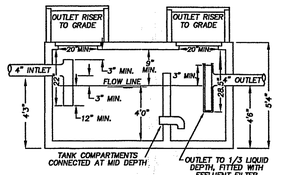
1,500 GALLON TWO COMPARTMENT SEPTIC TANK

NOT TO SCALE

NOTE: GRADE TO DIVERT SURFACE RUNOFF.



PLAN VIEW



TANK COMPARTMENTS CONNECTED AT MID DEPTH

OUTLET TO 1/3 LIQUID DEPTH, FITTED WITH EFFLUENT FILTER

CROSS-SECTION

DISTRIBUTION BOX

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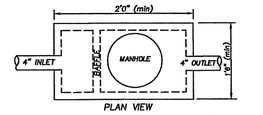
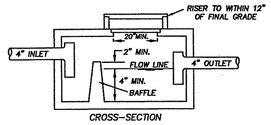


PLAN VIEW



CROSS-SECTION

PROPOSED ONSITE WASTEWATER TREATMENT DESIGN & WETLANDS PLAN FOR

DANIEL MURRAY

BURRILLVILLE, RHODE ISLAND

OCTOBER, 2012 SCALE 1"= 40'

ASSESSOR'S PLAT 79, LOT 30, AREA: 9.69±

LEACHING SYSTEM BY:

MARC N. NYBERG ASSOCIATES, INC.
LAND SURVEYORS and PLANNERS
501 GREAT ROAD, UNIT 104
NORTH SMITHFIELD, RHODE ISLAND 02896
TEL: (401) 762-2870
FAX: (401) 762-2871

NOV 26 2013

MARC N. NYBERG
No. 1797
PROFESSIONAL LAND SURVEYOR

THIS SURVEY AND PLAN CONFORM TO CLASS IV STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

Marc N. Nyberg
REG. PROFESSIONAL LAND SURVEYOR

GENERAL NOTES

1) LEACHING TRENCHES TO BE EXCAVATED IN ACCORDANCE WITH RIDEM REGULATION 32.9 FOR ONSITE WASTEWATER TREATMENT SYSTEMS. 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 TRENCHES 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.
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 ISDS. NO PUBLIC WELLS, EXISTING OR PROPOSED, ARE WITHIN 500' OF THE ISDS UNLESS SHOWN.
6) BRING SEPTIC TANK MANHOLE TO GRADE AND D-BOX MANHOLE TO WITHJN 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' UPGRADIENT OR 50' DOWNGRADIENT OR SIDE GRADIENT OF THE PROPOSED LEACHING SYSTEM.
12) 10' FROM LEACHING AREA NOT TO BE LOWER THAN ELEV.: 101.42.
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.
3) NO LEACHING SYSTEM EXISTS WITHIN 100' OF THE PROPOSED WELL.

TEST HOLE DATA

DATE: 7/9/13

TH1
0"-6" A, SIL, 10YR 3/2
6"-28" Bw, SL, G, 10YR 4/6
28"-50" C, CB, G, 10YR 5/3
LEDGE AT 50"
ESHWT: 34"

TH2
0"-6" A, SIL, 10YR 3/2
6"-18" Bw, SL, 10YR 4/6
18"-34" Bw2, SL, G, 2.5YR 5/4
34"-56" C, SL, 2.5YR 5/2
LEDGE AT 56"
ESHWT: 34"

TH3
0"-6" A, SIL, 10YR 3/2
6"-20" Bw1, SL, G, 10YR 4/6
20"-30" Bw2, SL, G, 2.5YR 5/4
30"-54" C, SL, 2.5YR 5/2
54"-92" C2, G, CB, LS, 2.5YR 5/3
LEDGE AT 92"
ESHWT: 26"

TH4
0"-6" A, SIL, 10YR 3/2
6"-22" Bw1, G, SL, 10YR 4/6
22"-38" Bw2, G, SL, 2.5YR 5/4
38"-64" C, G, SL, 2.5YR 5/2
LEDGE AT 64"
ESHWT: 36"

DESIGN DATA

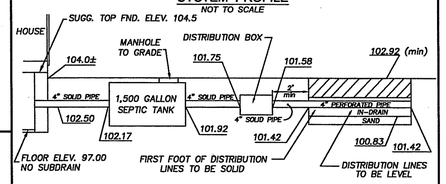
SOIL CATEGORY: 1
DESIGN LOADING RATE: 0.61
FIELD SIZE: ELJENS, TWO LINES
27 TOTAL ELJEN UNITS
756 SQUARE FEET

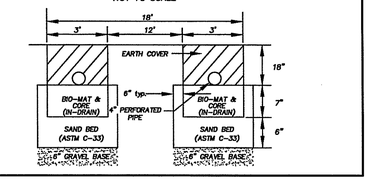
LEDGE PROBES

#	DEPTH	ELEV. OF LEDGE
TH1	50"	100.6
TH2	56"	99.8
TH3	92"	98.4
TH4	64"	99.2
P1	38"	94.0
P2	36"	96.0
P3	18"	97.6
P4	48"	96.8
P5	48"	99.4
P6	72"	99.3
P7	62"	100.2
P8	52"	103.3
P9	12"	103.5
P10	32"	103.6
P11	48"	99.7
P12	84"	100.0
OLD	92"	100.0

SYSTEM PROFILE

NOT TO SCALE



LEACHING SYSTEM CROSS-SECTION

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