

AP 195 LOT 15  
N/F TOWN OF BURRILLVILLE

IRON PIPE FOUND  
N: 317,555.3904  
E: 286,119.7260  
LAT: 41°57'17.009"N  
LONG: 71°39'15.379"W

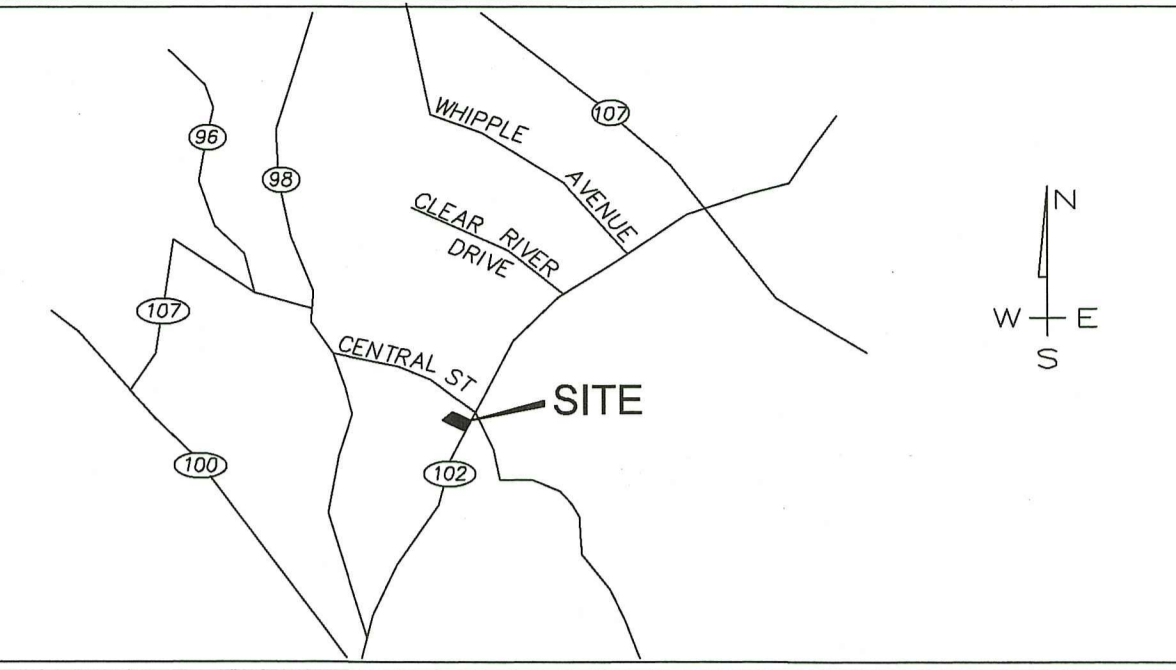
AP 196 LOT 31  
N/F ROYAL ESTATES ASSOCIATES, LTD

AP 196 LOT 33  
N/F MARINA MAGIDIN & RENE GUERRA

LOT AREA:  
36,822 SF

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
NOTE PER DEM:  
Kindly be advised that this Permit  
is not equivalent to a  
verification of the type or extent  
of freshwater wetlands on site

LOCATION MAP (NOT TO SCALE)



NOTES:

1. WETLAND DELINEATION BY NATURAL RESOURCE SERVICES, INC.
2. STRAW WATTLE TO BE INSTALLED PRIOR TO START OF ANY CONSTRUCTION AND TO REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE AND AREA HAS STABILIZED. STRAW WATTLE TO BE INSPECTED PERIODICALLY OR AFTER SIGNIFICANT RAINFALL, AND REPAIRED OR REPLACED AS NECESSARY.
3. AREA OF DISTURBANCE WITHIN BUFFER ZONE: 4,730 SF.

NOTES FOR BUFFER ZONE RESTORATION:

1. AREA SHALL BE SCARIFIED AND TOP SEEDED WITH A NORTHEAST WILDLIFE CONSERVATION MIX.
2. THE AREA SHALL BE PLANTED WITH THE FOLLOWING:  
40 Highbush Blueberry (*Vaccinium corymbosum*)  
40 Arrowhead Viburnum (*Viburnum dentatum*)  
40 Witch Hazel (*Hamamelis virginiana*)
3. SHRUBS SHALL BE 2-3 FEET TALL AND SPACED 5 FEET ON-CENTER.
4. THE AREA SHALL BE WATERED AS REQUIRED THROUGHOUT THE FIRST GROWING SEASON TO ENSURE SURVIVAL.
5. BUFFER ZONE MARKERS SHALL BE INSTALLED WHERE INDICATED. A SIGN READING "DEM BUFFER ZONE" SHALL BE AFFIXED TO EACH MARKER.
6. THE AREA SHALL BE ALLOWED TO REVERT TO A WILD CONDITION.

ZONING DISTRICT: R-20

MINIMUM SETBACKS: FRONT - 30'  
SIDE - 10'  
REAR - 30'

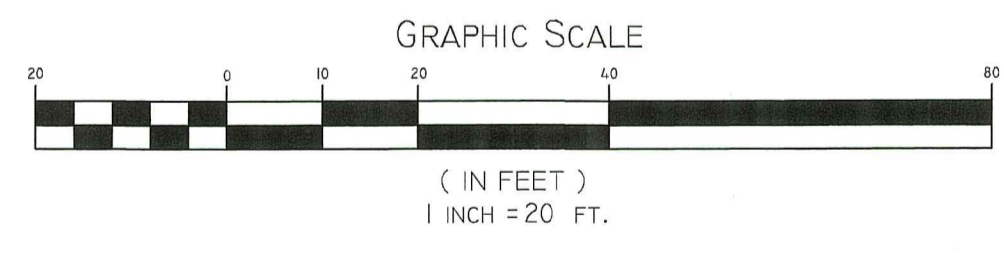
LEGEND

- 372- - - - 372 EXISTING CONTOUR
- 372- - - - 372 PROPOSED CONTOUR
- A16 ▲ WETLAND FLAG
- FLAGGED WETLAND EDGE
- MOUNTAIN LAUREL (*KALMIA LATIFOLIA*)  
4'-5' HIGH SPACED 8' ON CENTER
- BUFFER ZONE MARKER  
4"x4" PT LUMBER EXPOSED 18" ABOVE GROUND

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: 10 2023 FILE #: 22-0479  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Paul D. Carlson*

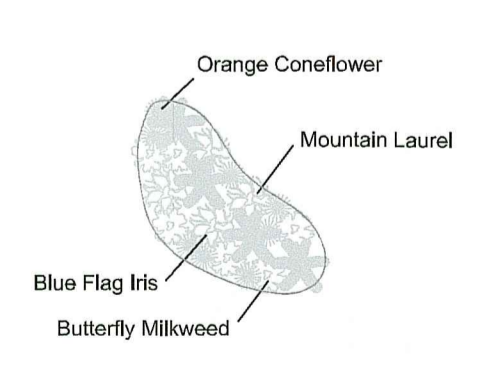
RI Environmental Management  
NOV 01 2022  
Office of Water Resources



RAIN GARDEN

ROOF AREA: 915 SF - AREA: 80 SF - 20 PLANTS

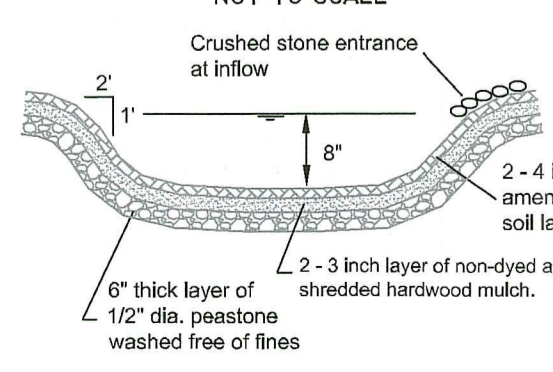
PLANTING DETAIL  
NOT TO SCALE



NOTES:

- TREATMENT  
Rain garden to be 8" deep with a 2-4 inch amended soil layer (60/60 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.  
2. 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.  
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.

CROSS-SECTION  
NOT TO SCALE



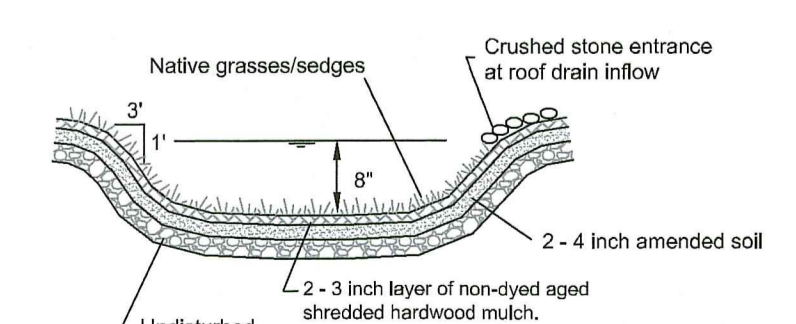
VEGETATED SWALE

DRIVEWAY: 755 SF IMPERVIOUS  
SWALE: 3' WIDE x 21.5' LONG = 64 SF

VEGETATIVE SWALE MAINTENANCE

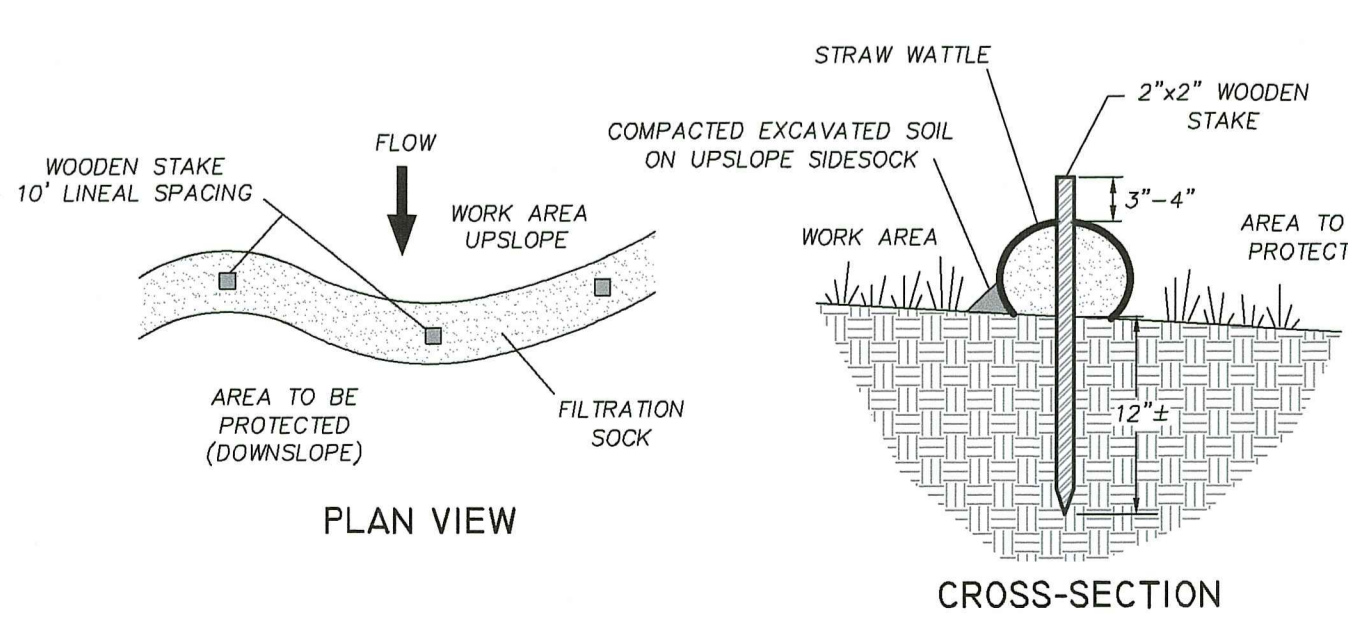
1. The vegetated swale shall be inspected annually and after large storm events.
2. Eroded side slopes and channel bottom shall be stabilized as necessary.
3. If the surface of the dry swale becomes clogged to the point that standing water is observed on the surface 48 hours after precipitation events, the bottom shall be roto-tilled or cultivated to break up any hard-packed sediment, and then reseeded.
4. Vegetation in dry swales shall be mowed as required to maintain minimum grass heights in the 4-6 inch range.
5. Every five years, the channel bottom of dry swales should be scraped to remove sediment and to restore original cross section and infiltration rate, and should be seeded to restore ground cover, where necessary.

CROSS-SECTION  
NOT TO SCALE



NOTE: VEGETATED SWALE SHALL BE INSPECTED ANNUALLY AND SHOULD BE INSPECTED AFTER LARGE STORM EVENTS.

STRAW WATTLE DETAIL  
NOT TO SCALE



SITE PLAN

A.P. 196 LOT 32  
920 BRONCOS HIGHWAY, BURRILLVILLE, RI

PREPARED FOR: BRIAN MONTMINY & KELSEY VARGAS  
920 BRONCOS HIGHWAY, MAPLEVILLE, RHODE ISLAND 02839

JOB # 22-044 SCALE: AS NOTED DRAWN BY: LMB DATE: OCTOBER 18, 2022  
REVISED:

PAUL D. CARLSON  
No. 7142  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
PROFESSIONAL SEAL

**INSITE** Engineering Services, LLC  
PROFESSIONAL ENGINEERS | LAND SURVEYORS  
Precision. Clarity. Certainty.

501 Great Road, Unit 104  
North Smithfield, Rhode Island  
Phone: (401) 762-2870 Fax: (401) 762-2871  
Web Address: InsiteEngineers.com

SHEET  
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OF 1