

\\woodardcurran.net\shared\projects\0233191.00 south kingstown stormwater retrofit design\wip\drawings\figures\rain garden figures\183 twin peninsula



**Woodard & Curran**

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800.985.7897 | www.woodardcurran.com

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**CLIENT INFO:**

TOWN OF SOUTH KINGSTOWN  
GREEN HILL POND STORMWATER  
RETROFIT DESIGN

JOB NO: 0233191.00

DATE: SEPTEMBER 2023

SCALE: 1"=30'

DESIGNED BY: DL

DRAWN BY: DL

CHECKED BY: CQ/BH

FILENAME: 183 TWIN PENINSULA.dwg

**DRAWING TITLE:**

**SITE PLAN  
183 TWIN PENINSULA AVE**

DRAWING NO:

**1**



ESTIMATED IMPERVIOUS DRAINAGE AREA: 650 SQ.FT.

EXISTING ROOF LEADERS

REMOVE SHRUBBERY, INSTALL AN APPROXIMATE 64 SQ.FT. 8" DEEP RAIN GARDEN (SEE SHEET #2 FOR DETAILS)

APPROXIMATE LOCATION OF PROPERTY LINE

EXISTING ROOF LEADERS

APPROXIMATE LOCATION OF OWTS SEPTIC TANK

INSTALL DOWNSPOUT ADAPTER TO 4" SDR-35 PVC PIPE UNDERGROUND TO PROPOSED RAIN GARDEN

APPROXIMATE LOCATION OF OWTS LEACHFIELD

APPROXIMATE WATER MAIN

TWIN PENINSULA AVE

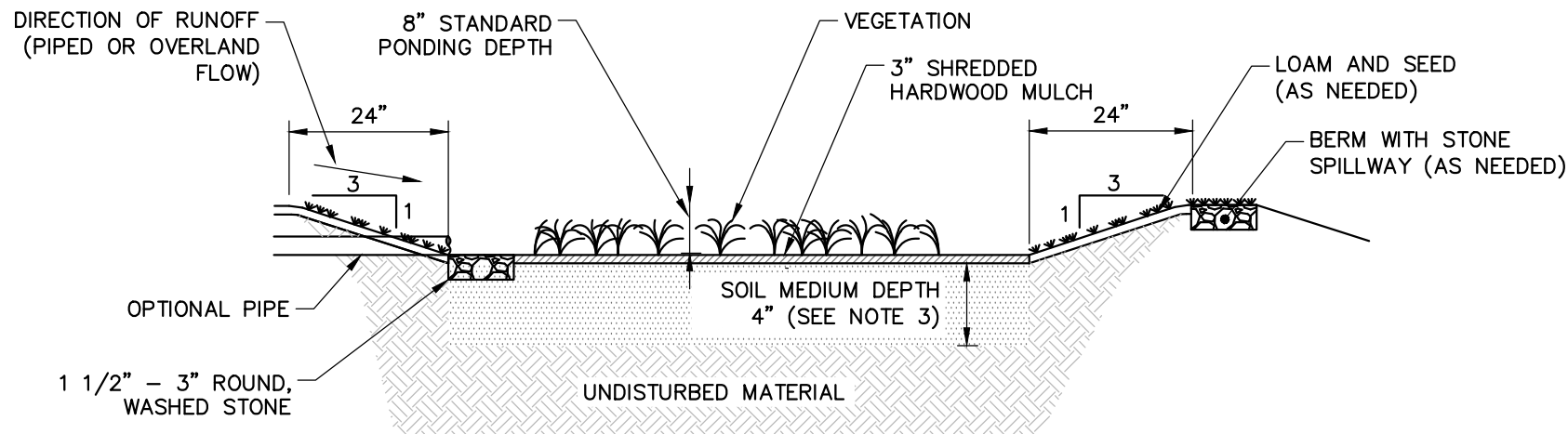
**GENERAL NOTES:**

1. THE HOMEOWNER MUST CALL "DIG SAFE" AT 811 AT LEAST 72 HOURS PRIOR TO EXCAVATION IN ACCORDANCE WITH STATE OF RHODE ISLAND, GENERAL LAW C39-1.2.
2. LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES SHOWN (IF ANY) ARE AN APPROXIMATE REPRESENTATION ONLY. ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE DRAWINGS.
3. THIS PLAN IS NOT INTENDED TO BE AN EXISTING CONDITIONS PLAN OR A BOUNDARY SURVEY. ALL PROPERTY LINE INFORMATION SHOWN IS TAKEN FROM EXISTING PLANS OF RECORD.
4. AERIAL PHOTOGRAPH TAKEN FROM RIGIS ONLINE DATA - SPRING 2023.



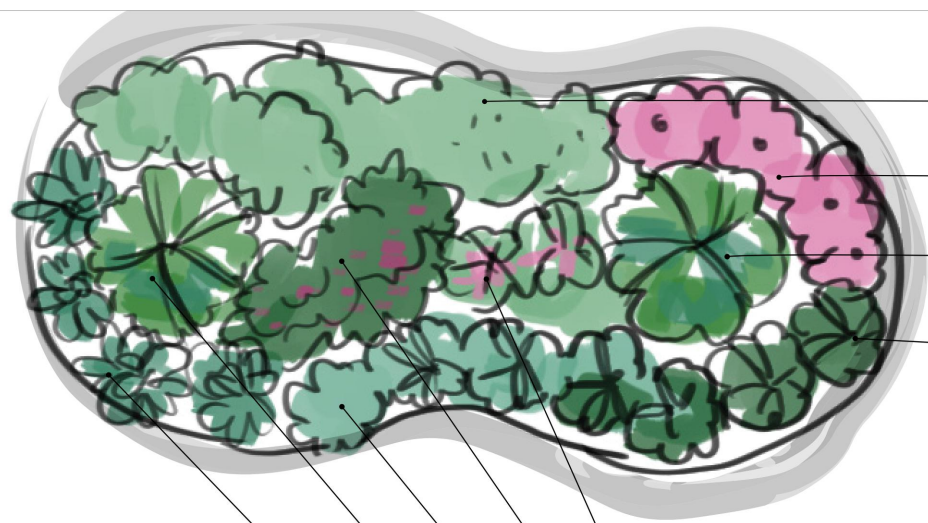
BAR SCALE  
1" = 30'

CHECK GRAPHIC SCALE BEFORE USING



### RAIN GARDEN PROFILE

NOT TO SCALE



- Inkberry Bush [4' Spread]**  
*Ilex glabra 'Shamrock'*
- Wild Bleeding Heart [1.5' Spread]**  
*Dicentra eximia 'alba'*
- Winterberry [4' Spread]**  
*Ilex verticillate 'Red Sprite'*
- Sweet Pepperbush [4' Spread]**  
*Clethra alnifolia 'Hummingbird'*

- Cardinal Flower [1' Spread]**  
*Lobelia cardinalis*
- Lowbush Blue Berry [2' Spread]**  
*Vaccinium agustifolium*
- Sweet Fern [4' Spread]**  
*Comptonia peregrina*
- Winterberry [4' Spread]**  
*Ilex verticillate 'Red Sprite'*
- Purple Coneflower [1' Spread]**  
*Echinacea purpurea*

### RAIN GARDEN PLANTING PLAN

NOT TO SCALE

**SAMPLE MATERIAL LIST:**  
(PER 16 SQ. FT. OF RAIN GARDEN)

- (3) 1 CU-FT BAGS OF MATURE ORGANIC COMPOST
- (2) 2 CU-FT BAGS OF HARDWOOD MULCH
- (1) 0.5 CU-FT BAG OF 1 1/2" - 3" ROUND, WASHED STONE
- (1) 3 LB BAG OF GRASS SEED
- PLANTINGS

**SAMPLE QUANTITY OF PLANTINGS:**  
(PER 16 SQ. FT. OF RAIN GARDEN)

- (1) 4' SPREAD PLANT LIKE WINTERBERRY, SWEET PEPPERBUSH, SWEET FERN, OR INKBERRY BUSH; OR
- (1) 2' SPREAD PLANTS LIKE LOWBUSH BLUE BERRY AND (2) 1.5' SPREAD PLANTS LIKE WILD BLEEDING HEART; OR
- (4) 1.5' SPREAD PLANTS LIKE WILD BLEEDING HEART AND (1) 1' SPREAD PLANT LIKE CARDINAL FLOWER OR PURPLE CONEFLOWER; OR
- (9) 1' SPREAD PLANTS LIKE CARDINAL FLOWER OR PURPLE CONEFLOWER

NOTE: SPREAD GRASS SEED OR MULCH BETWEEN PLANTS TO SUPPRESS WEEDS

**NOTES:**

1. THE BOTTOM OF A RAIN GARDEN SHOULD BE LEVEL TO ENCOURAGE THE EVEN DISTRIBUTION OF STORMWATER AND INCREASE INFILTRATION CAPACITY.
2. SOIL WITHIN RAIN GARDEN AREA SHOULD BE PLACED, TO NOT COMPACT. IF SOIL BECOMES COMPACTED IT MAY NEED TO BE TILLED TO MAINTAIN DRAINAGE.
3. AMENDED SOIL MEDIUM SHALL BE A 50/50 MIXTURE OF THE EXCAVATED NATIVE SOILS AND ORGANIC MATTER, SUCH AS A MATURE ORGANIC COMPOST.
4. A 1 1/2" - 3" ROUND, WASHED STONE ENTRANCE SHOULD BE INSTALLED AT THE POINT OF INFLOW TO PREVENT CHANNELING AND/OR EROSION.
5. A BERM TO DETAIN STORMWATER SHOULD BE CONSTRUCTED ALONG THE DOWNHILL SIDE OF THE RAIN GARDEN.
6. RAIN GARDENS SHOULD BE INSPECTED FOLLOWING THE FIRST TWO PRECIPITATION EVENTS OF AT LEAST 1" TO ENSURE THAT THE SYSTEM IS FUNCTIONING PROPERLY.
7. SILT/SEDIMENT SHOULD BE REMOVED FROM THE RAIN GARDEN WHEN THE ACCUMULATION EXCEEDS 1" OR WHEN WATER PONDS ON THE SURFACE OF THE RAIN GARDEN FOR MORE THAN 48 HOURS.
8. FERTILIZERS OR PESTICIDES SHOULD NOT BE APPLIED TO PLANTS WITHIN RAIN GARDEN.
9. PLANTS SHALL BE REPLACED ON AN AS-NEEDED BASIS DURING THE GROWING SEASON TO MAINTAIN AN ADEQUATE VEGETATED GROUND COVER.

**RAIN GARDEN PLANTING NOTES:**

THE EXAMPLE RAIN GARDEN PLANTING SPECIES PLAN ASSUMES A PARTIAL TO FULL SUN PLANTING LOCATION. PLANTS USED IN PLAN ARE NEW ENGLAND NATIVE PERENNIAL SPECIES THAT THRIVE IN COASTAL ZONES 5b THROUGH 7a. PLANTING SPACING SHOULD BE DONE ONSITE TO MEET SPECIFIC SPACING REQUIREMENTS OF EACH PLANT TYPE.

**PLANT INSTALLATION:**

1. SPACE PLANTS BY 1/2 PLANT WIDTH OR 1/2 DIAMETER OF LARGEST PART OF THE PLANT.
2. PLANT ROW AND LINE SPACING SHOULD BE SPACED - 1/2 DIAMETER OF LARGEST PART OF THE PLANT.
3. FOLLOWING PLANTING, SPREAD 3-4" OF HARDWOOD MULCH AROUND PLANT BASE. DO NOT PLACE MULCH AROUND PLANT STEM.
4. WATER PLANTS THOROUGHLY ATOP MULCH FOLLOWING PLANTING.

**SUGGESTED GARDEN CENTERS AND PLANT RETAIL:**

1. THE FARMERS DAUGHTER, 716 MOORESFIELD ROAD (RT 138), WAKEFIELD, RI 02879
2. BLUE MOON FARM PERENNIAL, 173 SAUGATUCKET RD., SOUTH KINGSTON, RI 02879
3. HIGHLAND FARM, 4235 TOWER HILL RD., WAKEFIELD, RI 02879
4. GRANDIN FARMS, 47 TUCKERTOWN RD., WAKEFIELD, RI 02879
5. CLARK FARMS, 2984 COMMODORE OH, COMMODORE PERRY HWY, WAKEFIELD, RI 02879
6. SHICKASHEEN FARM, INC 3798 KINGSTOWN RD., WEST KINGSTON, RI 02892
7. BOTANICAL CREATIONS NURSERY, 895 LIBERTY LN., WEST KINGSTON, RI 02892
8. HOPKINS HILL NURSERY AND GARDEN CENTER, 73 HOPKINS HILL RD., WEST GREENWICH, RI 02817
9. WILDWOOD NURSERIES, INC., 659 FRENCHTOWN RD., EAST GREENWICH, RI 02818
10. BRIAR BROOK FARM, 2693 SOUTH COUNTY TRAIL, EAST GREENWICH, RI 02818
11. STEWART NURSERY CO. INC., 61 TUCKERTOWN RD., WAKEFIELD, RI 02879



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**2**

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