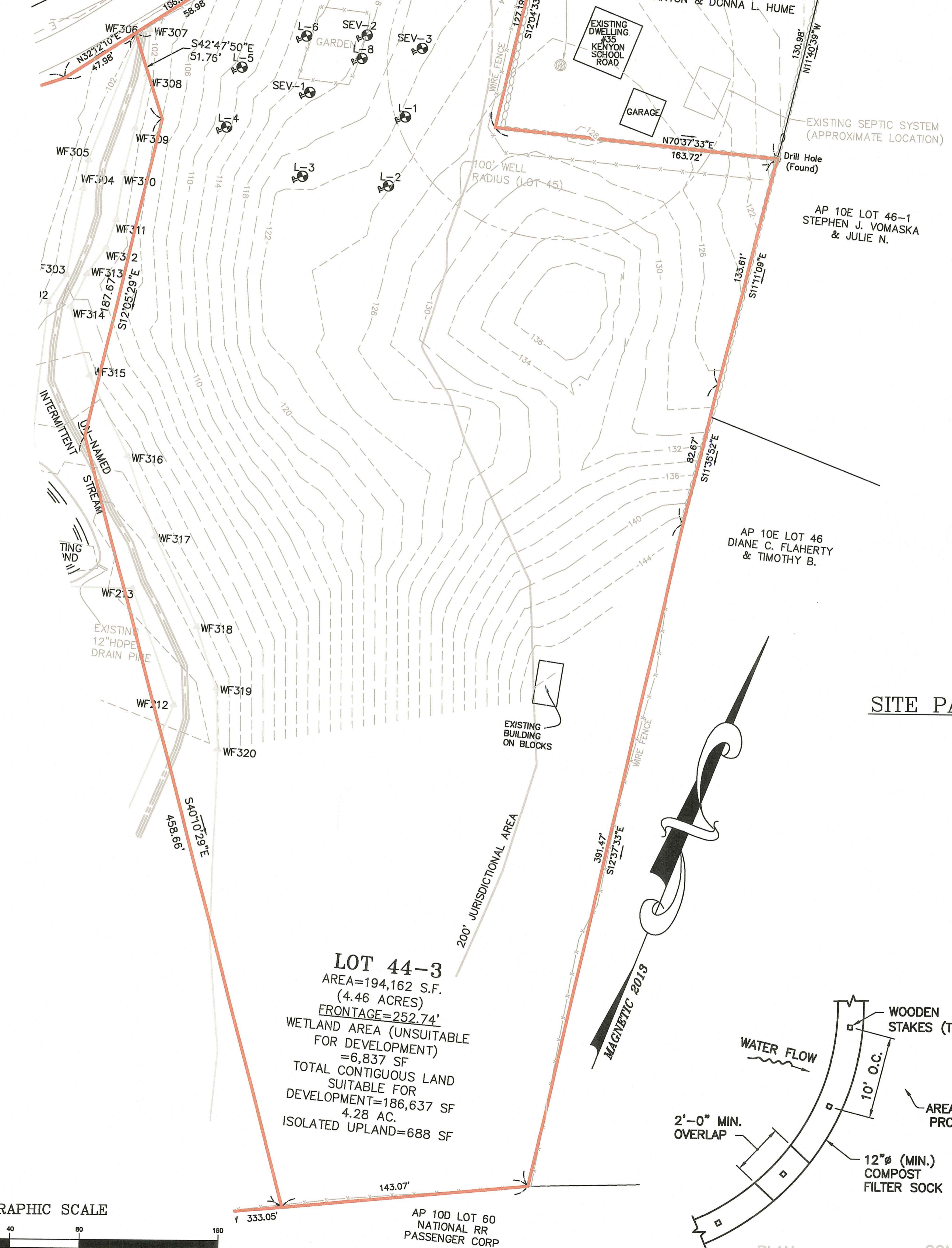


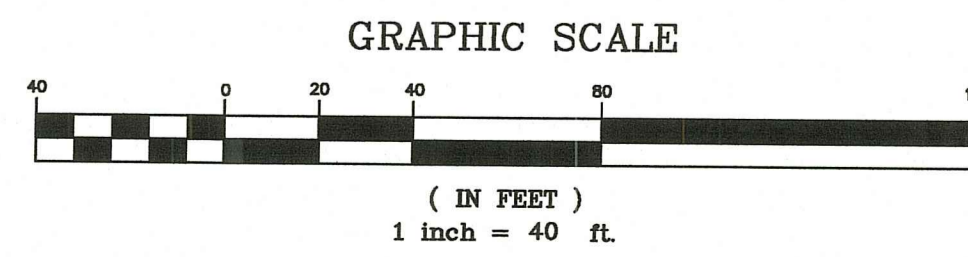
LEGEND

- EXISTING PROPERTY PERIMETER
- EXISTING STONE WALL
- EXISTING FENCE LINE
- EXISTING CONTOUR LINE
- EXISTING SOIL TYPE
- WF100 EXISTING WETLAND
- EXISTING ABUTTER LINE
- EXISTING TEST HOLE
- EXISTING UTILITY POLE
- EXISTING OVERHEAD WIRES
- PROPOSED CONTOUR
- MAXIMUM LIMIT OF DISTURBANCE
- EROSION CONTROL LINE
- PERMANENT BUFFER MARKER

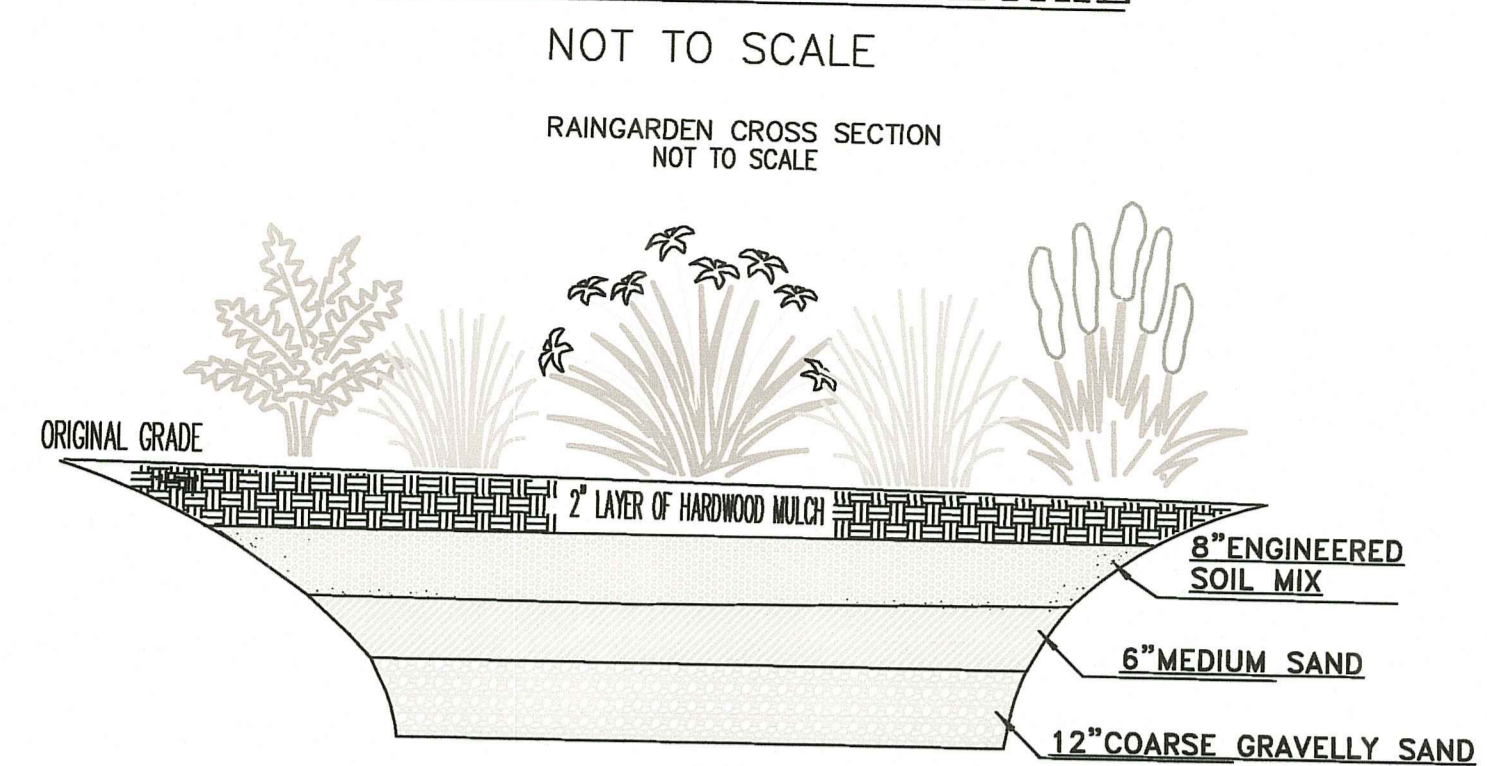
KENYON SCHOOL ROAD



LOT 44-3
 AREA=194,162 S.F.
 (4.46 ACRES)
 FRONTAGE=252.74'
 WETLAND AREA (UNSUITABLE FOR DEVELOPMENT)=6,837 SF
 TOTAL CONTIGUOUS LAND SUITABLE FOR DEVELOPMENT=186,637 SF
 4.28 AC.
 ISOLATED UPLAND=688 SF



ROOF RUNOFF RAIN GARDEN DETAIL



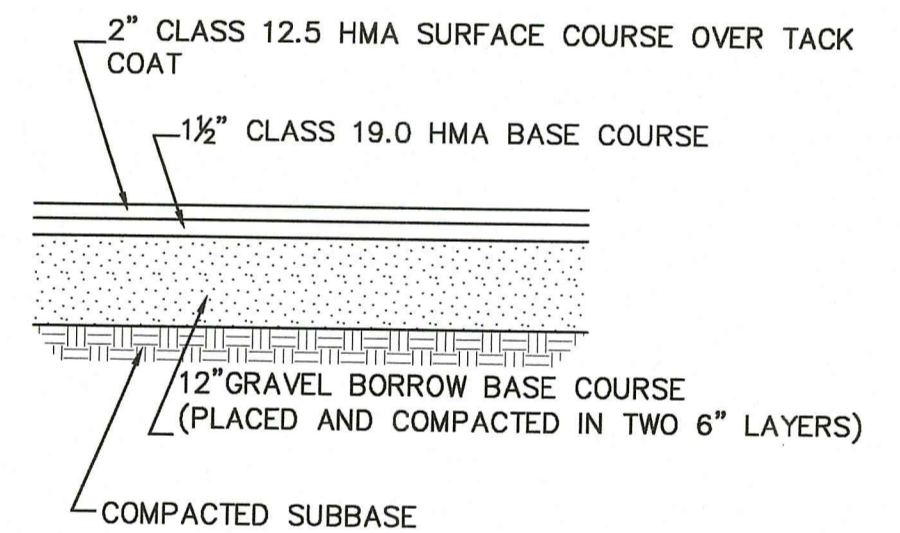
- PLANT SPECIES TO BE USED**
- | SPECIES NAME | COMMON NAME |
|---------------------------|------------------|
| ASTER DIVARICATUS | WHITE WOOD ASTER |
| CAREX ORNITA | FRINGED SEDGE |
| CAREX STRICTA | TUSSOCK SEDGE |
| IRIS VERSICOLOR | BLUE FLAG IRIS |
| LOBELIA CARDINALIS | CARDINAL FLOWER |
| MATTEUCCIA STRUTHIOPTERIS | OSTRICH FERN |
| OSMUNDA CINNAMOMEA | CINNAMON FERN |
| PONTEDERIA CORDATA | PICKEREL PLANT |
- *RAINGARDEN ENGINEERED SOIL MIX:**
 A UNIFORM MIX SHALL BE IMPORTED TO THE SITE CONSISTING OF:
 40% SAND (ASTM D 422)
 20-30% SAND LOAM TOPSOIL
 MIN. 3% ORGANIC MATERIAL
 <5% CLAY
 <50 PPM SOLUBLE SALTS
 30-40% COMPOST WITHOUT BIOSOLIDS
 pH 5.5-6.5
 FREE OF STONES & ORGANIC MATTER >2"
 FREE OF ANY SYNTHETIC MATERIAL
- DRAINAGE CALCULATIONS:**
RAIN GARDEN DESIGN BASIS:
 RAIN GARDEN WATERSHED AREA
 PROPOSED ROOF: 2,048 SF
 PROPOSED DRIVE: 4,248 SF
 SUBSOIL: SANDY LOAM
RAIN GARDEN SURFACE AREA (8" DEEP):
 RAIN GARDEN = 164 SF REQUIRED (ROOF)
 89 SF PROVIDED IN RG-2 & RG-3 = 178 SF
 RAIN GARDEN = 340 SF REQUIRED (DRIVE)
 RG-1 = 458 SF PROVIDED
 *CONTRACTOR TO STRICTLY ADHERE TO THE INSTALLATION MANUAL FOR THE RAIN GARDEN.
 *OWNER SHALL ALSO STRICTLY ADHERE TO THE RAIN GARDEN MAINTENANCE SCHEDULE SET FORTH BY RI DEM IN ORDER TO ASSURE ITS PROPER FUNCTION



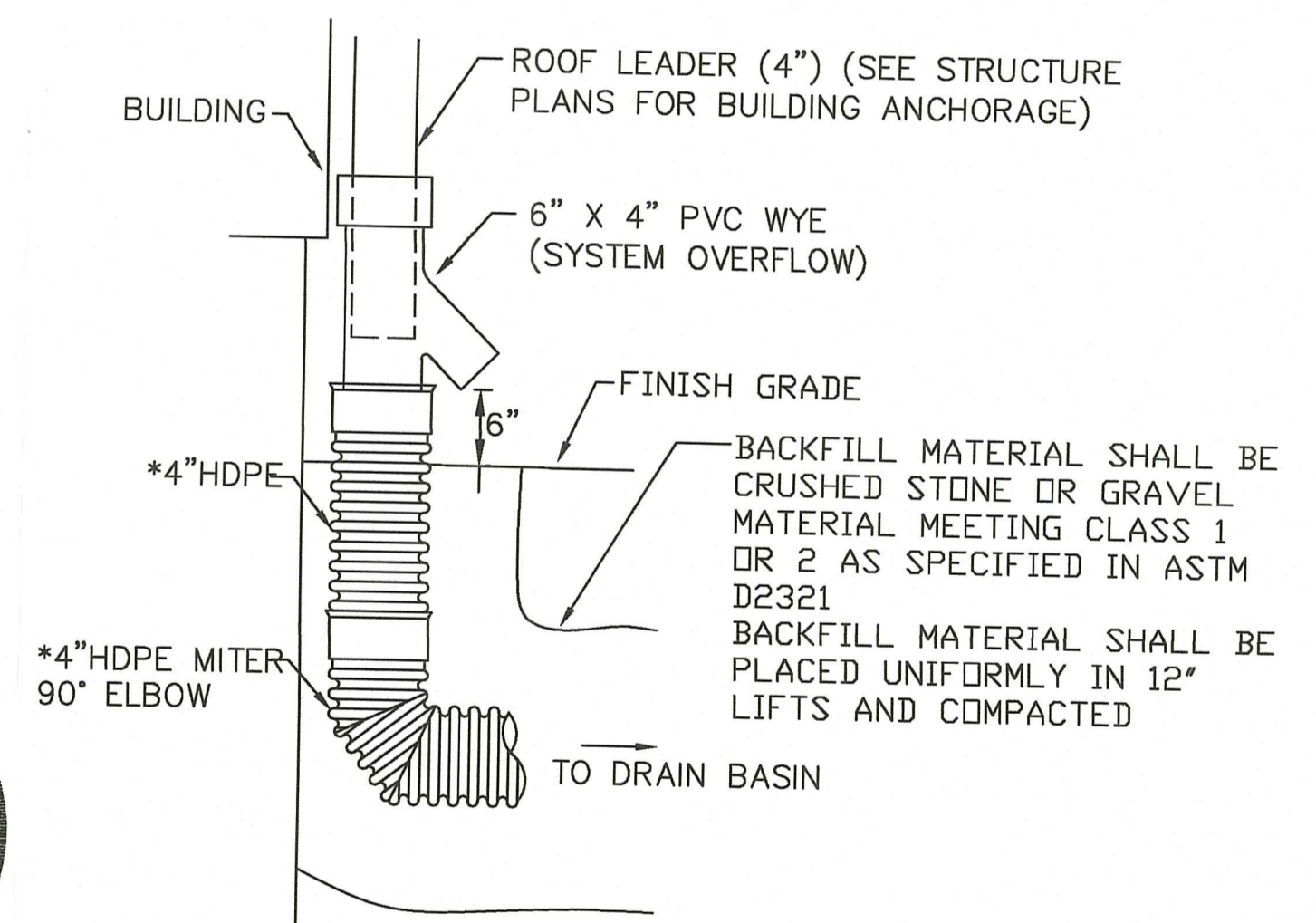
LOCUS MAP
NOT TO SCALE

RAIN GARDEN REQUIRED MAINTENANCE:

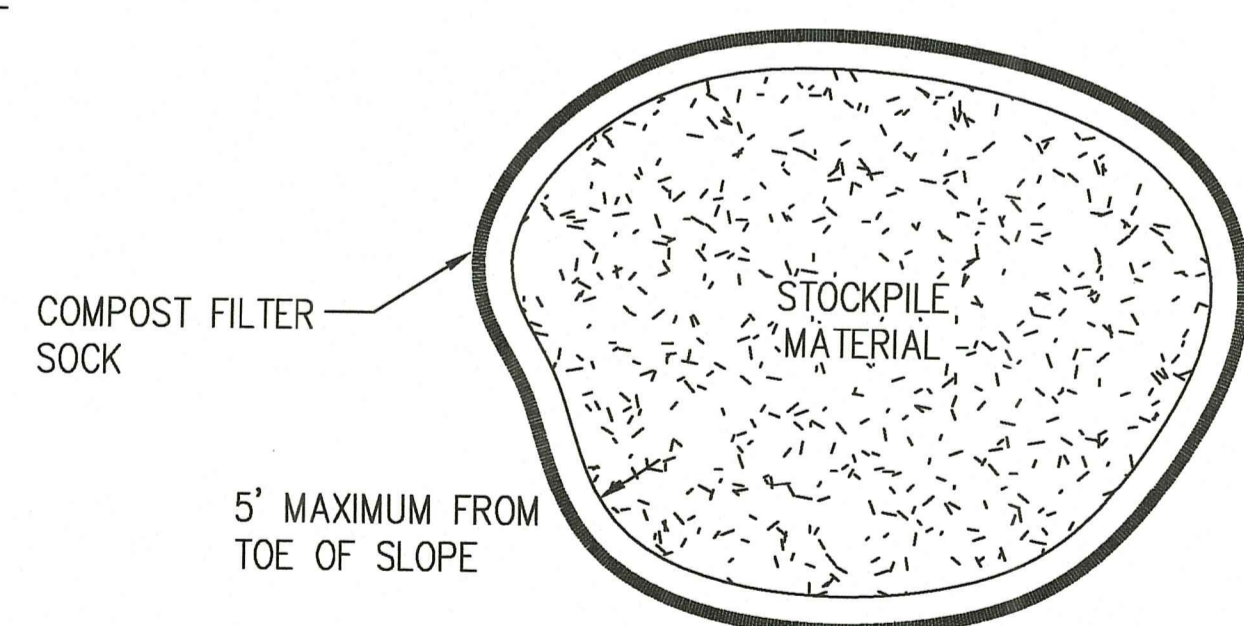
- MONTHLY:**
 INSPECT AND REMOVE ANY TRASH
 REMOVE ANY INVASIVE SPECIES PLANTS
- ANNUALLY:**
 MULCH- SPRING, AS NEEDED
 REPLACE ANY DEAD VEGETATION-SPRING
 REMOVE DEAD VEGETATION-FALL OR SPRING
 PRUNE-SPRING
- AS NEEDED:**
 REPLACE SOIL MEDIA AND PLANTS WHEN PONDING DOES NOT SUBSIDE WITHIN 72 HRS
 (CAREFUL MAINTENANCE SHOULD PROLONG THIS REQUIREMENT)
 *ALL PLANT MATERIAL SHALL BE WATERED AND MAINTAINED BY THE OWNER TO ASSURE THAT SUITABLE GROWTH HAS BEEN ESTABLISHED.



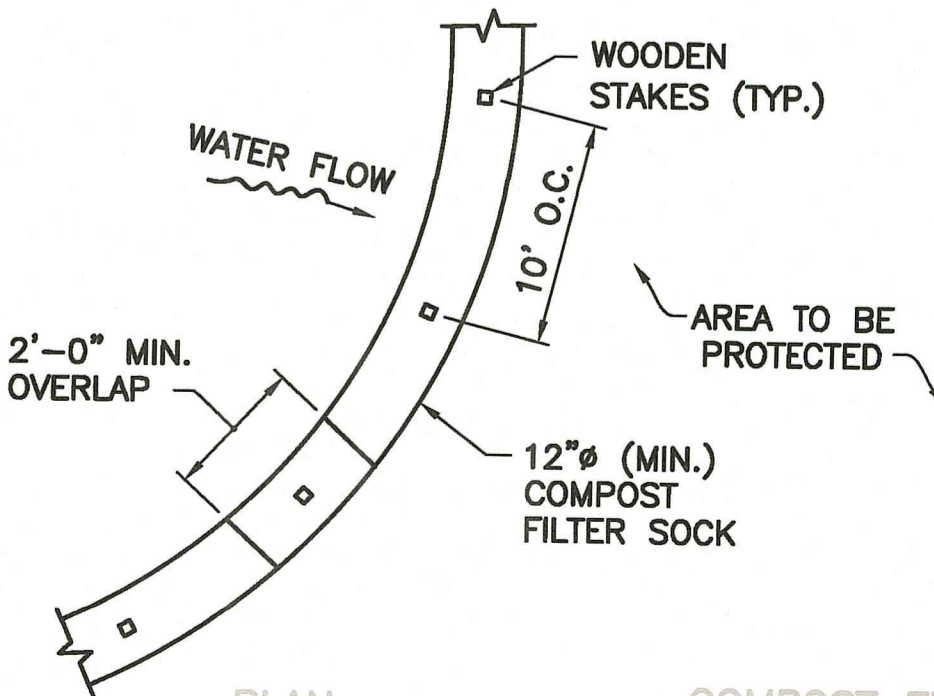
SITE PAVEMENT TYPICAL CROSS SECTION
NOT TO SCALE



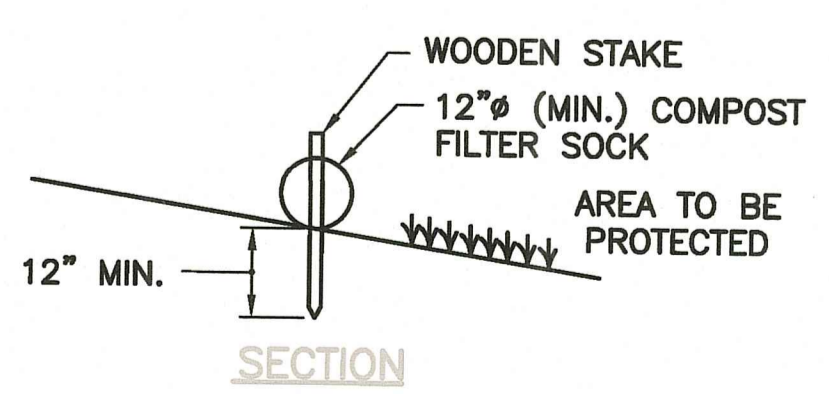
ROOF LEADER COLLECTOR DETAIL
NOT TO SCALE



STOCKPILE DETAIL
NOT TO SCALE



PERIMETER EROSION CONTROLS
NOT TO SCALE



- NOTES:**
- ALL MATERIAL TO MEET REQUIREMENTS OF SECTION 206 OF RI STANDARD SPECIFICATIONS.
 - COMPOST MATERIAL MUST BE ACCEPTED BY THE ENGINEER PRIOR TO PLACEMENT.

Thomas J. Principe, III
 No. 9107
 REGISTERED PROFESSIONAL ENGINEER

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 ENGINEERING DIVISION
 PO BOX 298
 TIVERTON, RI 02878
 401.816.5385
 www.PrincipleEngineering.com

REVISIONS

No.	DATE	DRWN	CHKD
1.	10/27/22	KAB	TJP

ON-SITE WASTEWATER TREATMENT SYSTEM PLAN
 for
A.P. 10E LOT 44-3
KENYON SCHOOL ROAD
 in
 RICHMOND, RHODE ISLAND

SCALE: 1" = 40'	SHEET NO: 1 of 2	
DRAWN BY: NEC	DESIGN BY: NEC	CHECKED BY: TJP
DATE: 07/06/2022	PROJECT NO.: 22050.00	

RI Environmental Management
 OCT 3 1 2022
 Office of Water Resources

