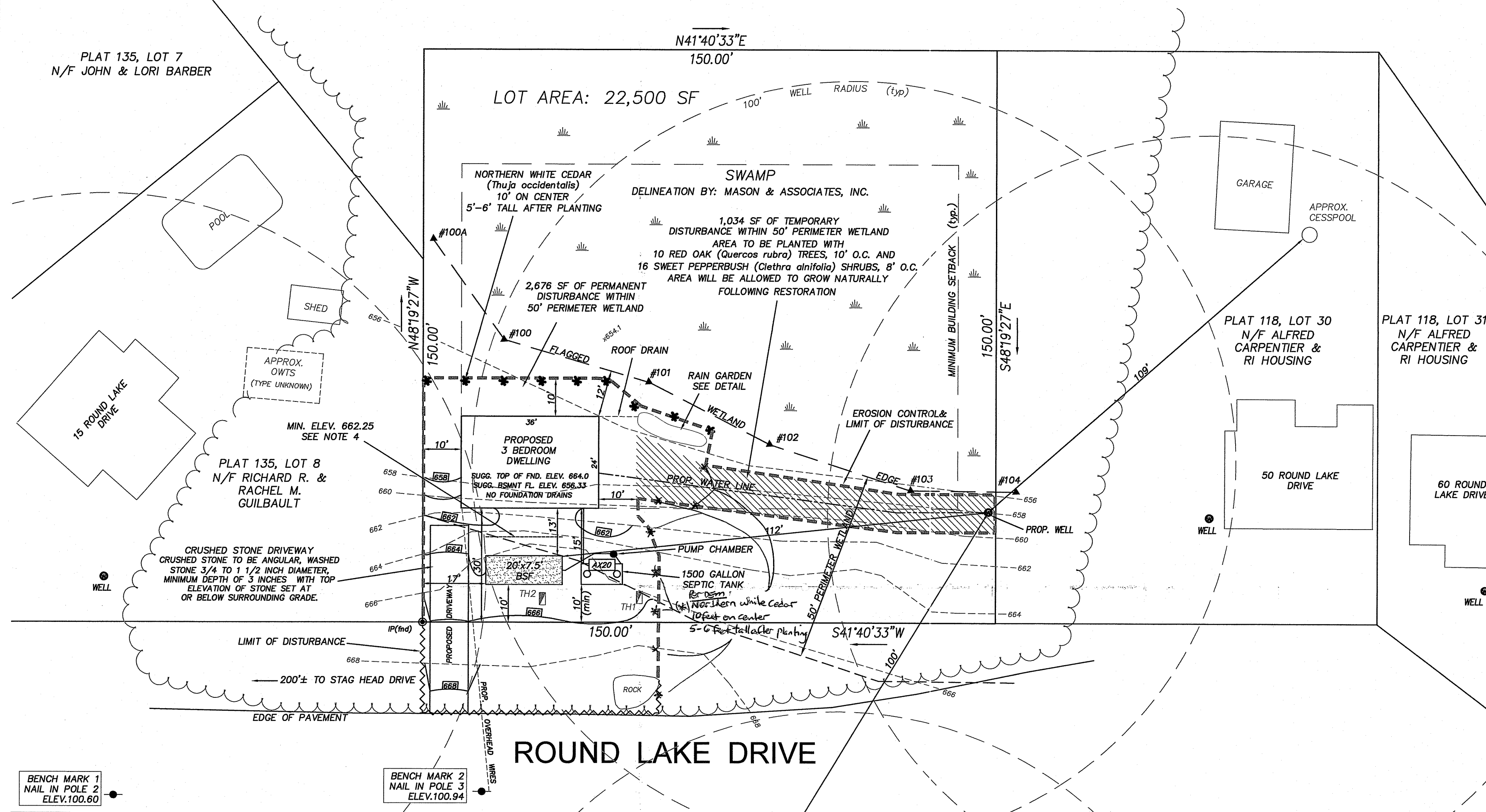


ZONING DISTRICT: R12  
 SETBACKS: FRONT - 30'  
 SIDE - 30'  
 REAR - 10'

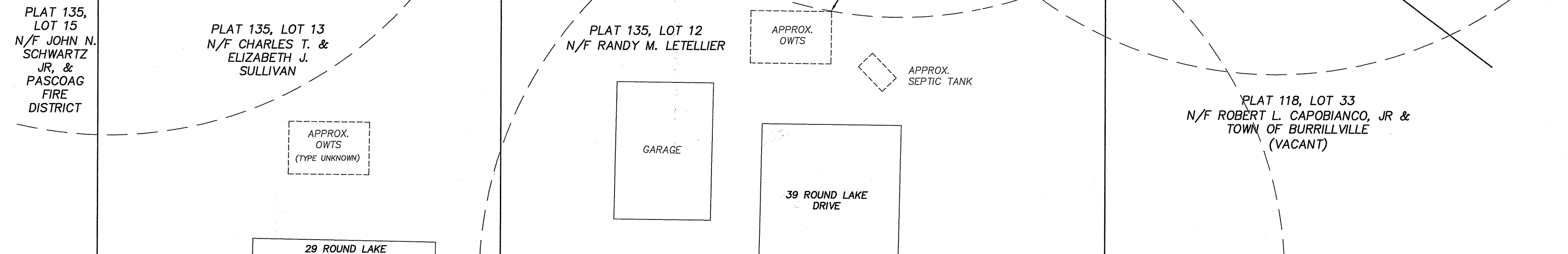
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED MAY 18 2020 FILE # 19-0233  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PLAT 118, LOT 29  
 N/F WAKEMAN NAIME R. TRUST

LOT AREA: 22,500 SF



ROUND LAKE DRIVE

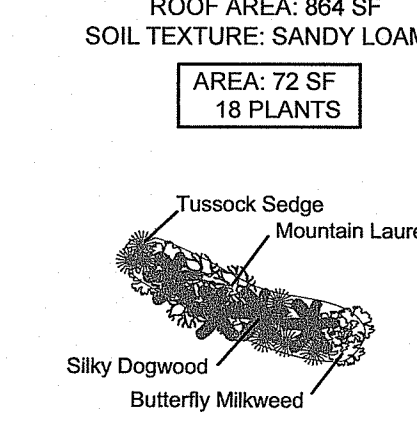


**RAIN GARDEN TREATMENT**  
 Rain garden to be 8" deep with a 2-4 inch amended soil layer (50/50 mixture of the excavated native soils and mature organic compost) and a 2-3 inch layer of non-dyed aged shredded hardwood mulch.

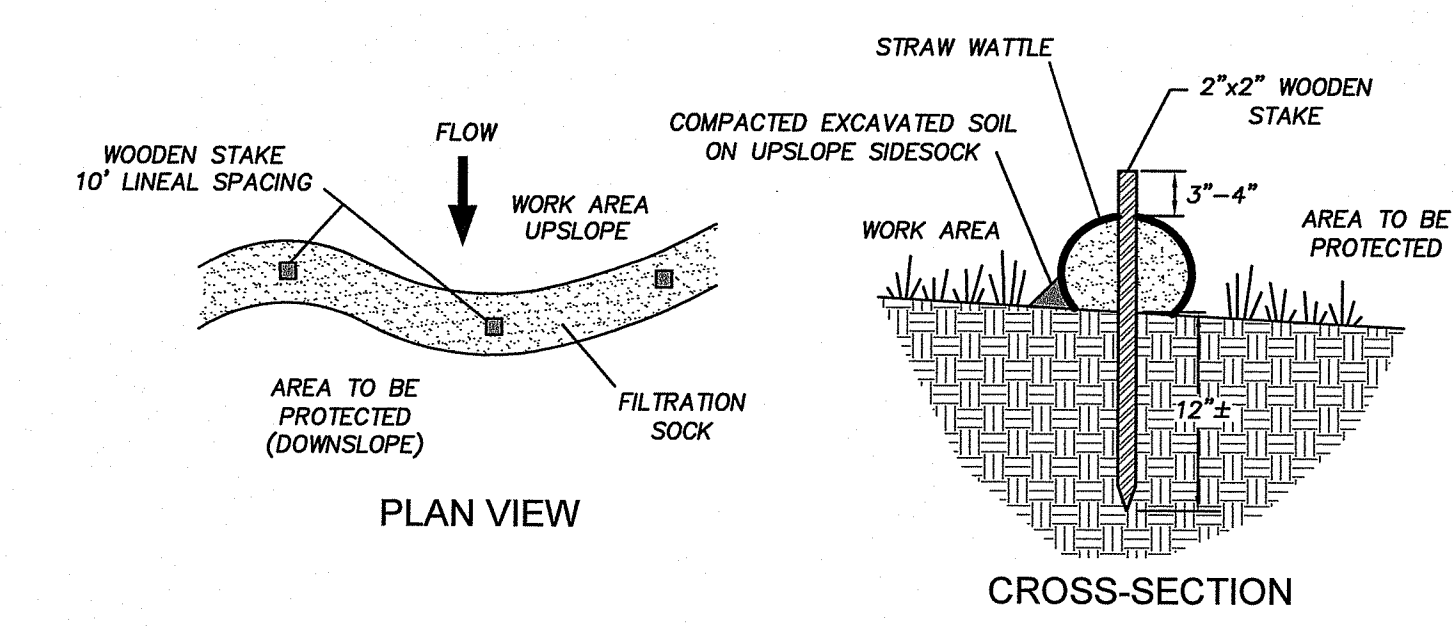
**CONSTRUCTION**  
 1. A crushed stone entrance should be installed at the inflow to prevent channeling.  
 2. A berm to detain stormwater should be constructed along the downhill side of the rain garden, perpendicular to the slope of the lawn.  
 3. Be sure that the soil within the rain garden area 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/accumulation 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.

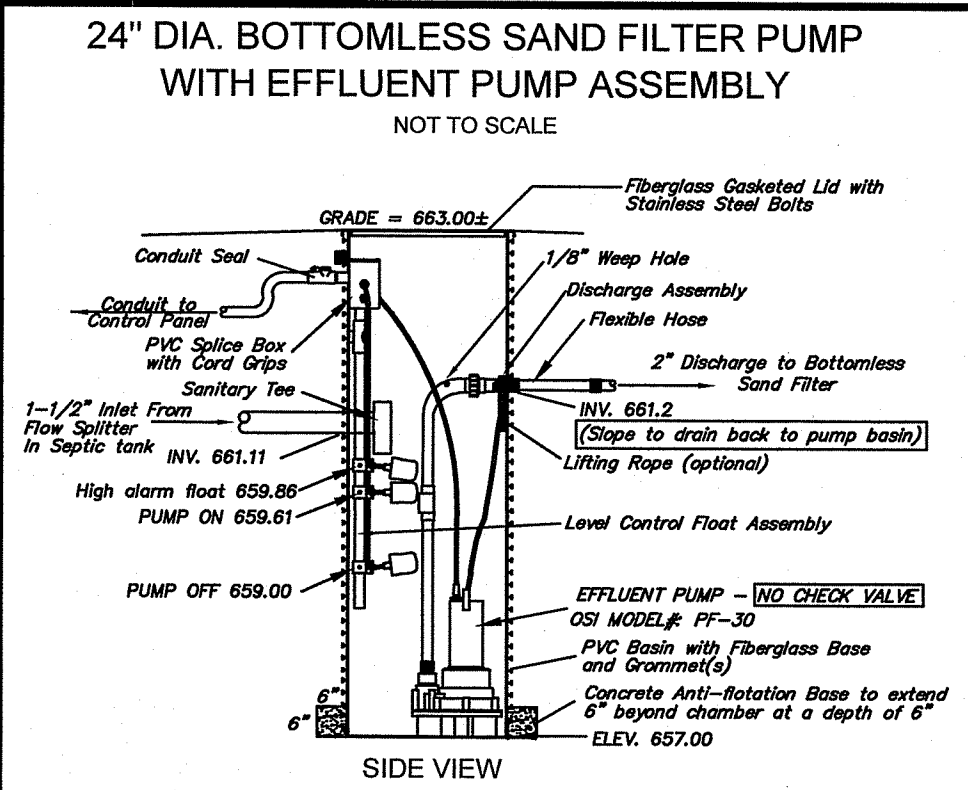
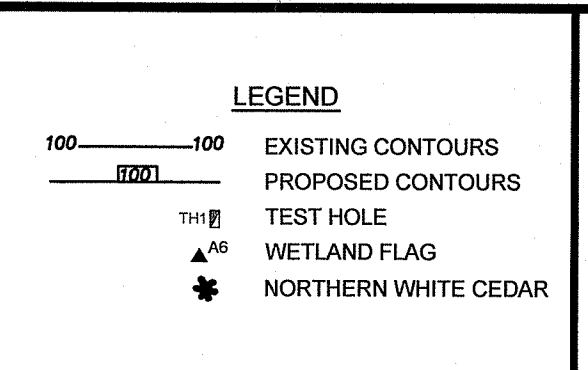
**RAIN GARDEN PLANTING DETAIL**  
 NOT TO SCALE  
 ROOF AREA: 864 SF  
 SOIL TEXTURE: SANDY LOAMS  
 AREA: 72 SF  
 18 PLANTS



**STRAW WATTLE DETAIL**  
 NOT TO SCALE



- SYSTEM COMPONENTS**
- 1,500 GALLON 2-COMPARTMENT CONCRETE SEPTIC TANK WITH PUMP VAULT AND RECIRCULATING SPLITTER VALVE AND P3005 PUMP.
  - 5' DEEP - 24" DIAMETER PUMP BASIN.
  - AX-20 ADVANTEX TEXTILE FILTER.
  - 20' LONG x 7.5' WIDE BOTTOMLESS SAND FILTER.
  - ORENCO SYSTEMS, INC. CONTROL PANEL.

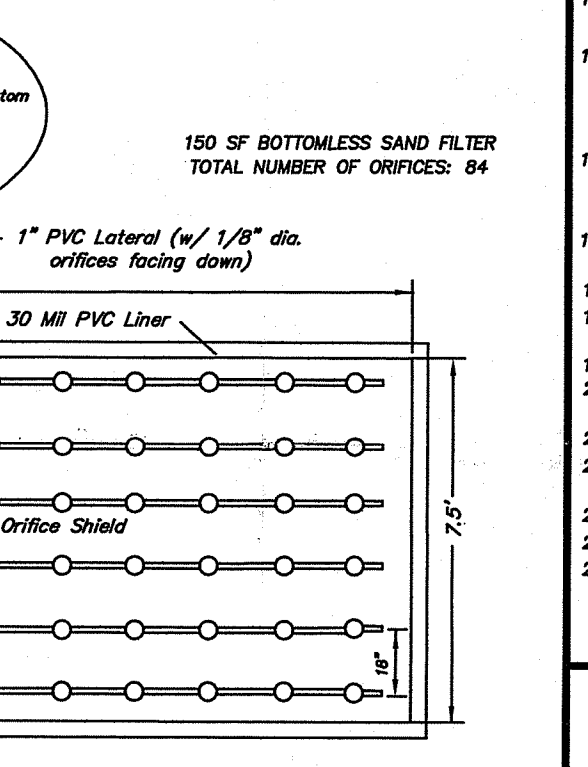
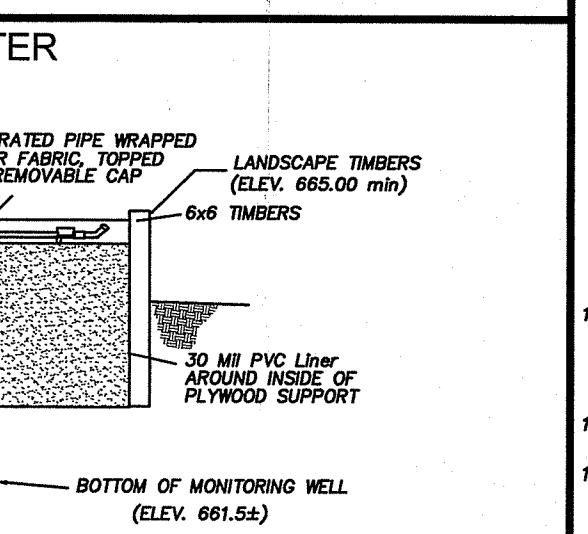
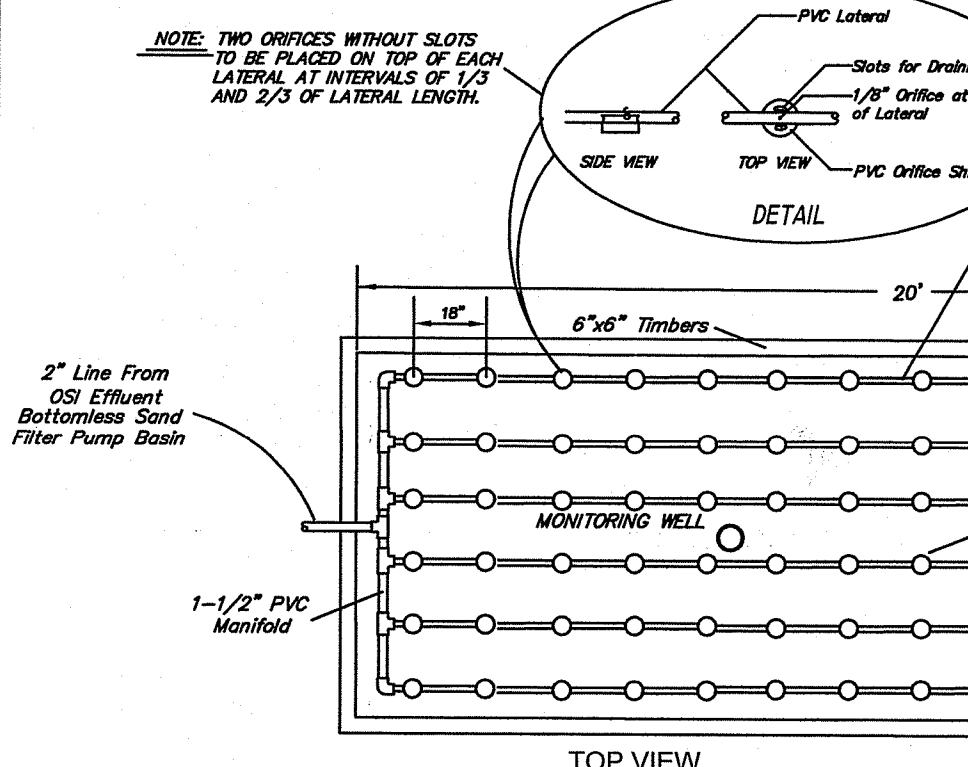
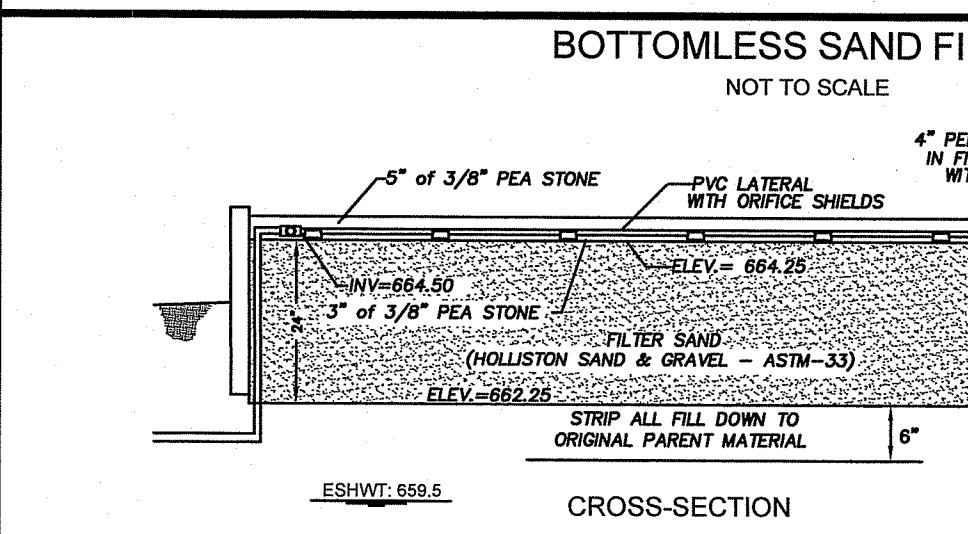
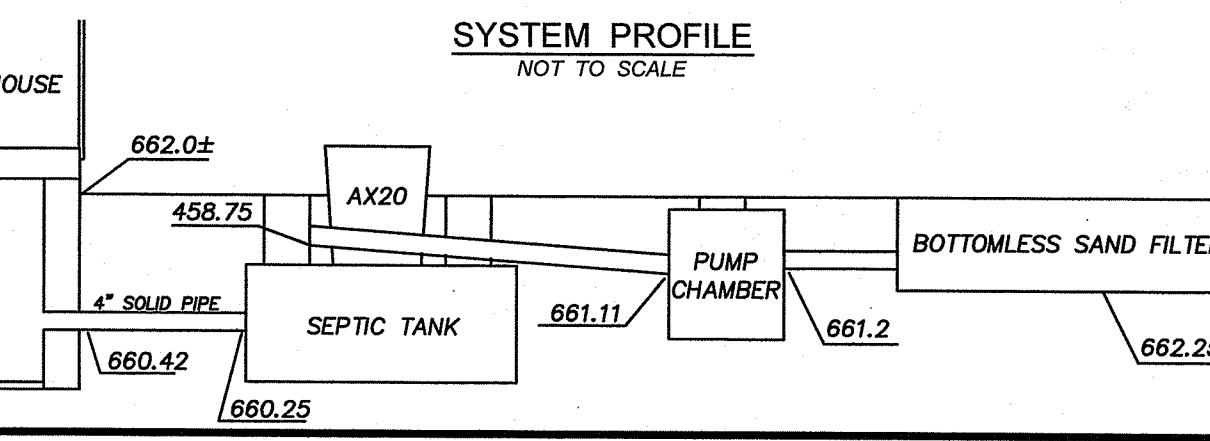
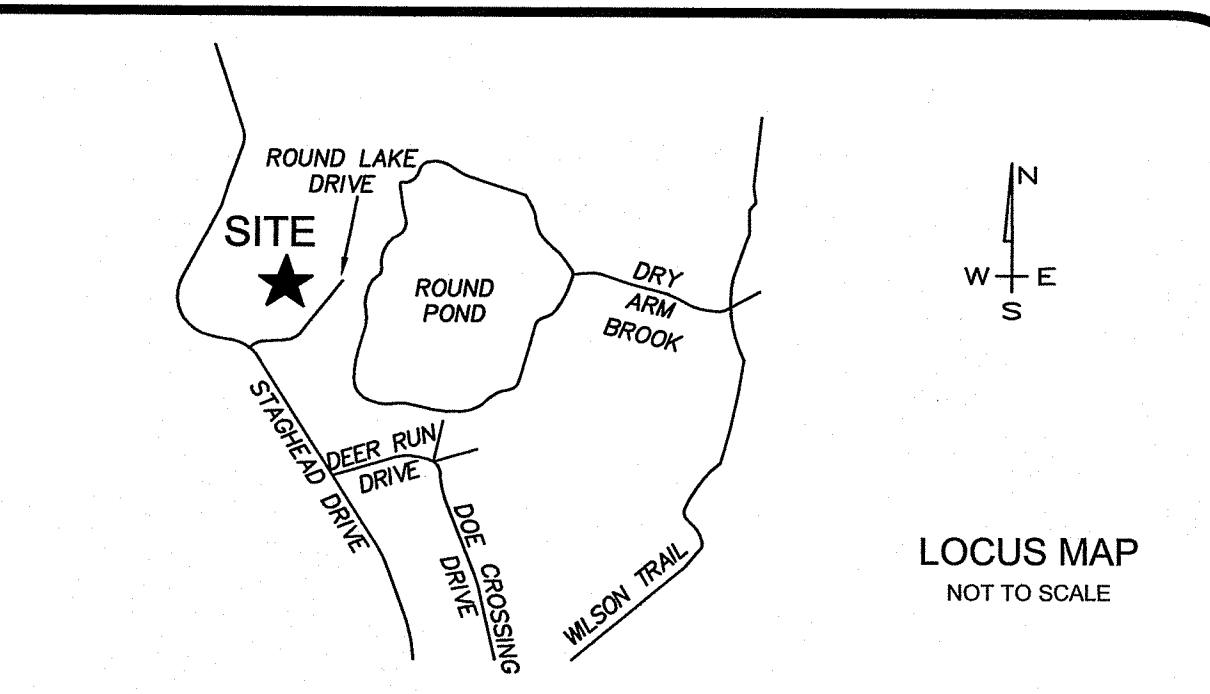


**TEST HOLE DATA**  
 DATE: 1-22-19

TH1  
 0'-24" FILL  
 24'-28" A. SL. 10 YR 2/2  
 28'-58" Bw. SL. 10YR 4/6  
 58'-90" C. CB. G. L.S. 2.5YR 6/3  
 ESHWT: 48" FROM ORIGINAL GROUND  
 LEDGE: 72" FROM ORIGINAL GROUND

TH2  
 0'-24" FILL  
 24'-28" A. SL. 10 YR 2/2  
 28'-58" Bw. SL. 10YR 4/6  
 58'-98" C. CB. G. L.S. 2.5YR 6/3  
 ESHWT: 48" FROM ORIGINAL GROUND  
 LEDGE: 72" FROM ORIGINAL GROUND

LEDGE PROBES  
 P1 - 78"  
 SOIL CATEGORY: 6



**SYSTEM SIZING:**  
 3 BEDROOMS: 115 GPD x 3 = 345 GPD  
 SOIL CATEGORY: 6  
 APPLICATION RATE: 2.3 GPD/SF  
 AREA REQUIRED: 345/2.3 = 150 SF  
 AREA PROVIDED: 7.5' x 20' = 150 SF

**TIMER INFO:**  
 SET ADVANTEX TIMER TO 24 DOSES/DAY  
 345 GPD/24 DOSES/DAY = 14.38 GAL/DOSE  
 14.38/32.6 GPM = .44 MIN.  
 TOTAL PUMP RUN TIME = 10.56 MIN./DAY  
 TOTAL PUMP OFF TIME = 1430.04 MIN./DAY  
 TIME OFF PER CYCLE = 59.56 MIN.  
 TIME ON PER CYCLE = 0.44 MIN.

**DOSING RATE:**  
 14.38 GAL/DOSE  
 PUMP CHAMBER CAPACITY = 23.5 GAL/FT OR 1.96 GAL./INCH  
 PUMP CHAMBER DEPTH @ 14.38 GAL. = .61 FEET  
 DOSE PER ORIFICE: 345 GPD/(24 DOSES/DAY)/84 ORIFICES = .17 GAL./ORIFICE/DOSE

**ONSITE WASTEWATER TREATMENT SYSTEM and WETLANDS PLAN**  
 FOR  
**SCOTT RYLAH**  
 PLAT 135, LOTS 10 & 11  
 ROUND LAKE DRIVE, BURRILLVILLE, RI  
 NOV 21 2019  
 DATE: JULY, 2018  
 SCALE: 1" = 20'  
 REVISED: 9-18-19  
 11-19-19 OVERHEAD WIRES, PE STAMP, ABUTTERS

**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 ACCURACY: T4  
 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*  
 MARC N. NYBERG License No. 1797 COA No.: A52

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

**Nyberg & Associates** A SUBSIDIARY OF  
**INSITE** Engineering Services, LLC  
 PROFESSIONAL ENGINEERS | LAND SURVEYORS  
 Precision. Clarity. Certainty.  
 501 Great Road, Unit 104  
 North Smithfield, Rhode Island 02896  
 Phone: (401) 762-2870 Fax: (401) 401-762-2871  
 Web Address: InsiteEngineers.com

**SHEET NUMBER**  
 1 of 1

**JOB NUMBER**  
 18-194

**PLAN FOR NOTICE**