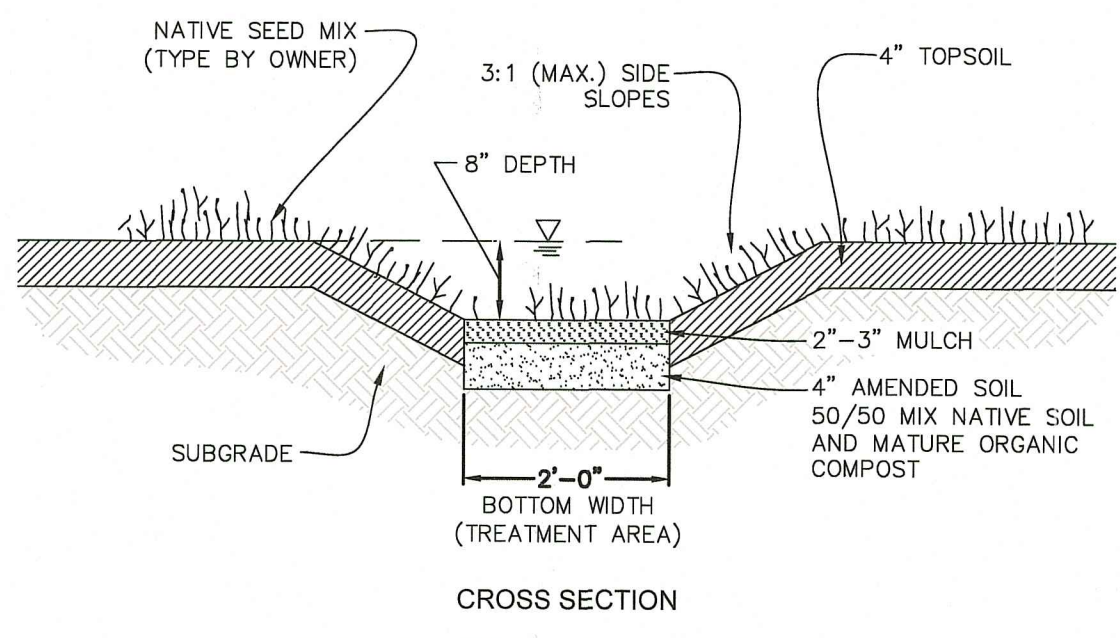
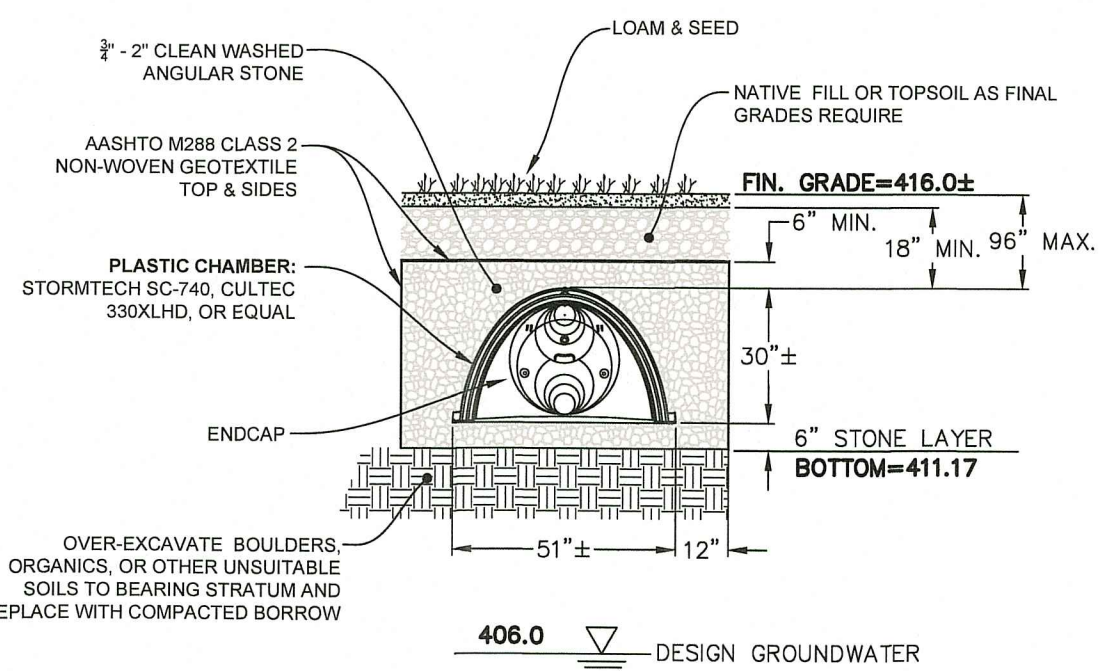


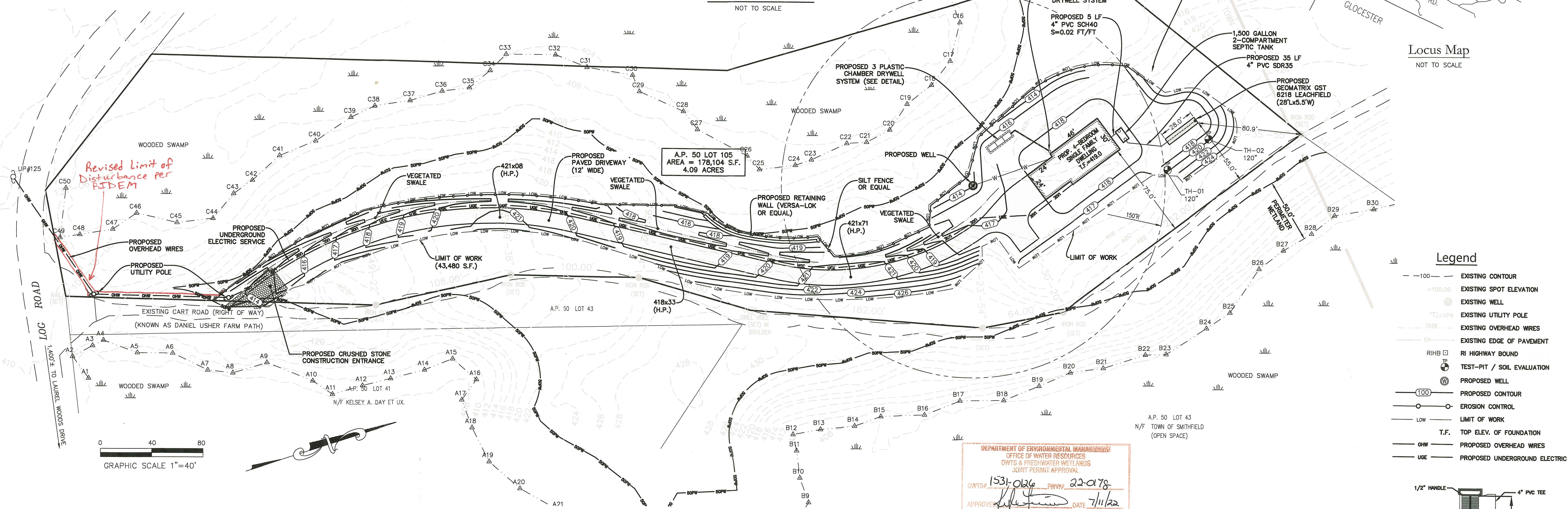
STORMWATER QUALITY TREATMENT PRACTICE				
DESCRIPTION	DESIGN IMPERVIOUS AREA	TREATMENT USED	TREATMENT CALCULATION	AREA OR STORAGE PROVIDED
HOUSE	2,500 S.F.	DRYWELL	$2,500 \times 1" = 208 \text{ Cu. Ft.}$	240 Cu. Ft.
DRIVEWAY	9,000 S.F.	VEGETATED SWALE	$9,000 / 12.5 = 720 \text{ S.F.}$	1,100 S.F.



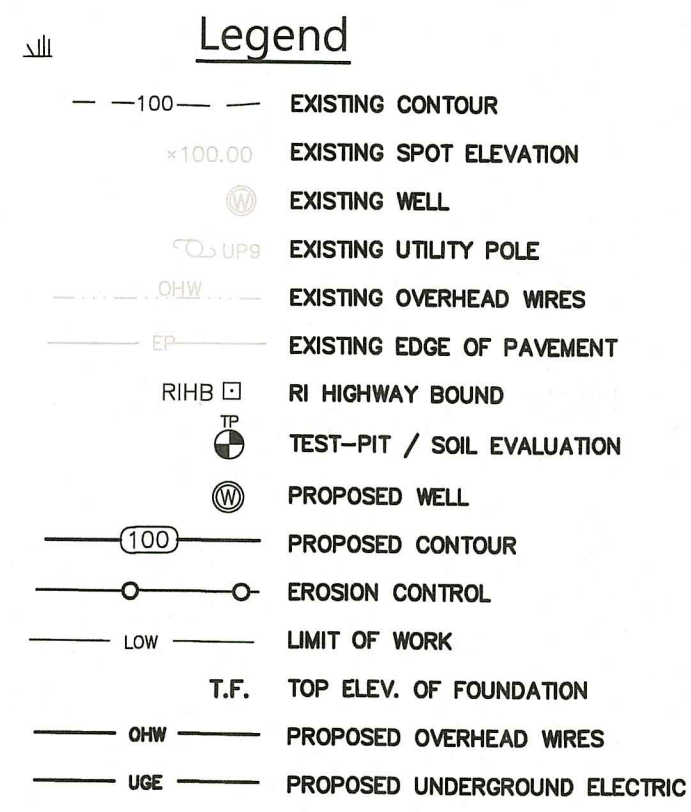
VEGETATED SWALE DETAIL  
NOT TO SCALE



UNDERGROUND PLASTIC CHAMBER DRYWELL SYSTEM  
NOT TO SCALE



Locus Map  
NOT TO SCALE

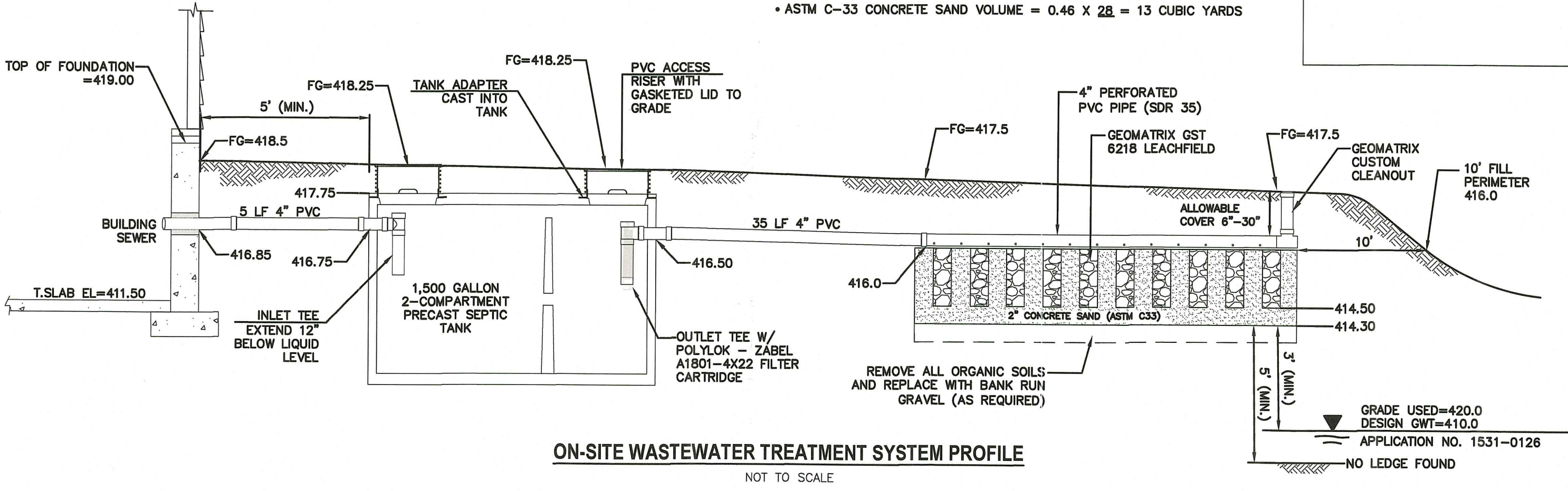
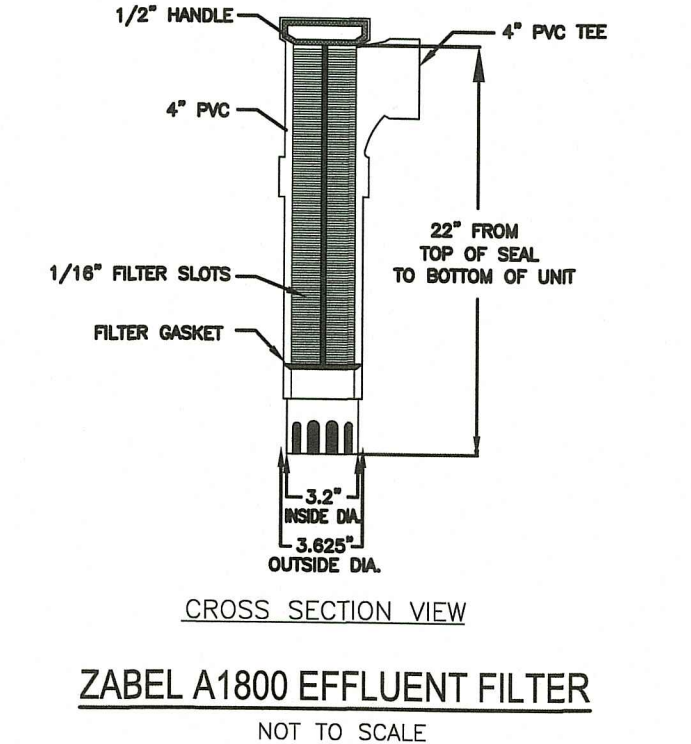
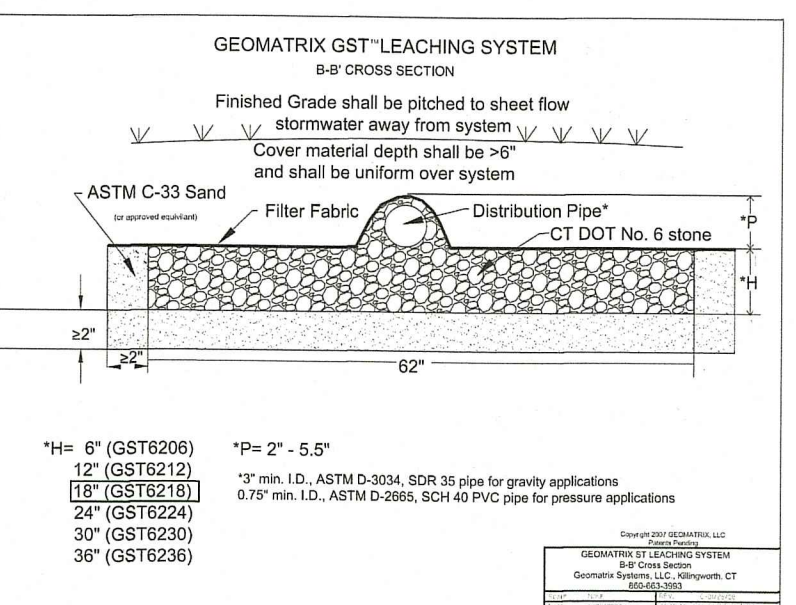
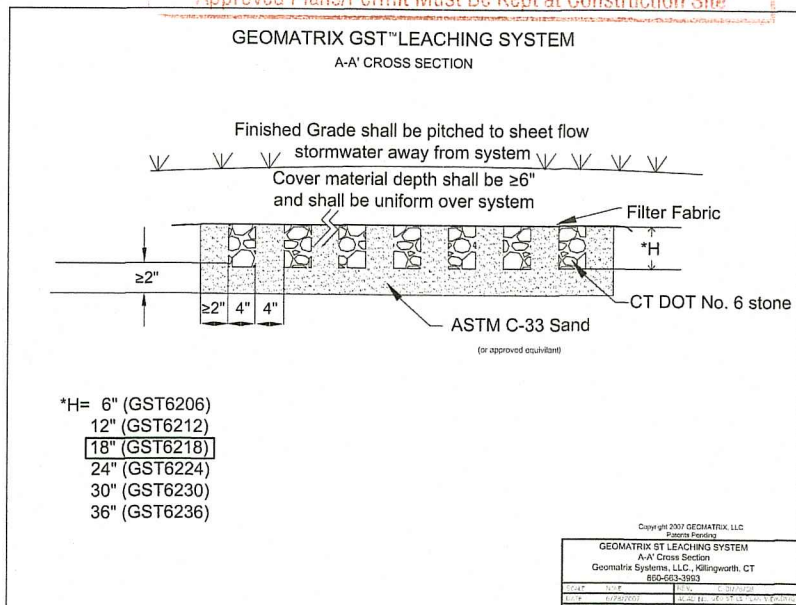
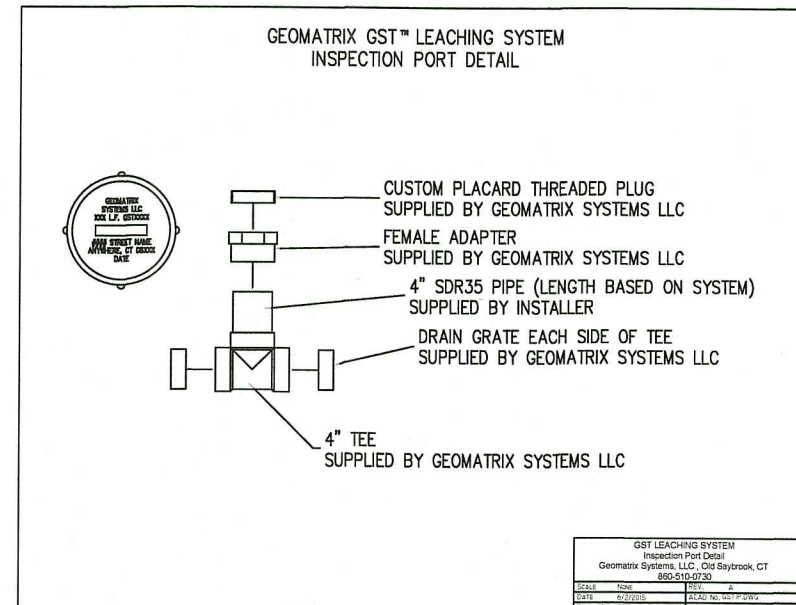


- General Notes:**
- THE SURVEY, EXISTING CONDITIONS, AND TOPOGRAPHY SHOWN ON THIS PLAN WAS PROVIDED BY INTERNATIONAL MAPPING AND SURVEYING, INC. PROPERTY LINE CONFORMS TO A CLASS I STANDARD.
  - WETLANDS WERE IDENTIFIED AND DELINEATED BY ECOSYSTEM SOLUTIONS, INC. OF 100 CENTERVILLE ROAD, SUITE 4 IN WARWICK, RI.
  - SOIL EVALUATIONS SHOWN WERE EXCAVATED AND CONDUCTED BY PATRICIA A. KELLY (04047) ON APRIL 1, 2018 AND APPROVED BY RIDEM ON MAY 12, 2018.
  - THE CONTRACTOR SHALL NOTIFY DIG-SAFE 72 HOURS PRIOR TO START OF CONSTRUCTION.
  - PROPER EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO EARTH DISTURBING ACTIVITIES. THIS SHALL INCLUDE SILT FENCE OR HAYBALES AT ALL DOWN GRADIENT AREAS, INLET PROTECTION OF CATCH BASINS, AND CONSTRUCTION ENTRANCE.
  - THIS SITE IS SHOWN ON FEMA PANEL 44007C02261G, AS ZONE A. NO BASE FLOOD ELEVATION DETERMINED EFFECTIVE DATE MARCH 2, 2009.
  - ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH TOWN OF SMITHFIELD RULES AND REGULATIONS AND RIDEM WETLANDS & OWTS PROGRAM(S).
  - ALL DISTURBED AREAS, AT A MINIMUM, SHALL RECEIVE 4\"/>

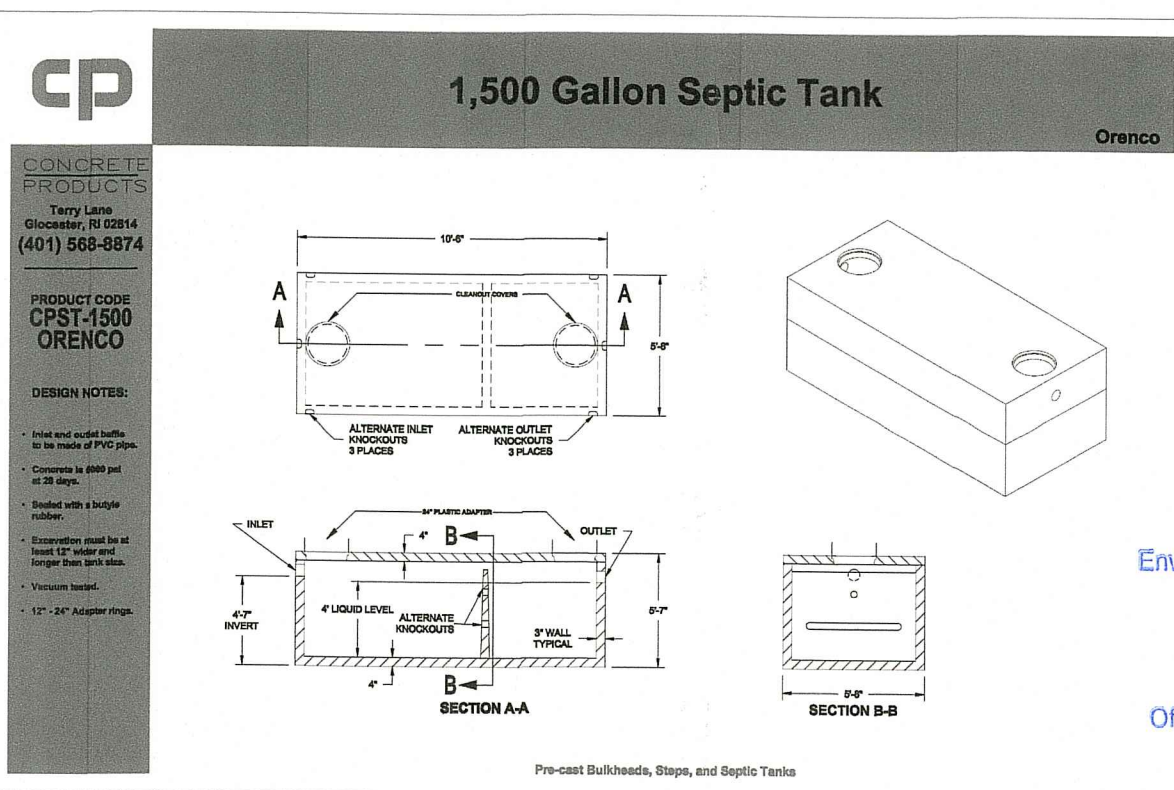
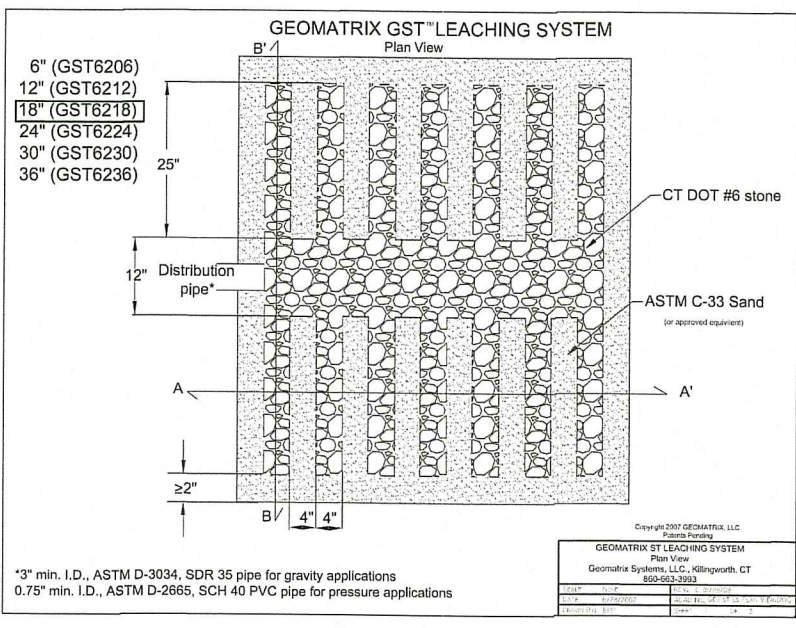
- Zoning Information**
- |                   |                             |
|-------------------|-----------------------------|
| ZONE DESIGNATION  | R-80                        |
| MINIMUM LOT SIZE  | 80,000 S.F.                 |
| MINIMUM LOT WIDTH | 200 FT.                     |
| MAX. LOT COVERAGE | 25%                         |
| MAX. BLDG. HEIGHT | 39 FT. (*20' FOR ACCESSORY) |
- Building Setbacks**
- |               |     |
|---------------|-----|
| FRONT SETBACK | 40' |
| REAR SETBACK  | 25' |
| SIDE SETBACK  | 75' |

- OnSite Wastewater Treatment System Notes**
- ALL DESIGN, CONSTRUCTION, AND MAINTENANCE REQUIREMENTS, WHETHER NOTED HEREON OR NOT, SHALL BE IN CONFORMANCE WITH RULES AND REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ON-SITE WASTEWATER TREATMENT SYSTEMS, EFFECTIVE NOVEMBER 25, 2018, BY THE RHODE ISLAND DEPT. OF ENVIRONMENTAL MANAGEMENT.
  - STRIP LEACHING AREA AND EXCAVATE DOWN TO ELEVATION 416.30 AT TRENCH LOCATION ONLY.
  - INSTALLER MUST ASSURE THAT BOTTOM AND SIDES OF EXCAVATION FOR THE LEACHFIELD ARE NOT COMPACTED OR SMOORED.
  - ALL TREES, STUMPS, AND BRUSH SHALL BE REMOVED WITHIN 10 FEET OF THE SYSTEM.
  - MAINTAIN INVERT ELEVATION OF 416.00 FOR 10 FEET AROUND SYSTEM.
  - THERE ARE NO KNOWN PRIVATE WELLS OR DRAINS EXIST. OR PROPOSED LOCATED WITHIN 200 FEET OF THE OWTS EXCEPT AS SHOWN AND NO KNOWN PUBLIC WELLS (EXIST. & PROP.) LOCATED WITHIN 50 FEET OF THE PROPOSED OWTS.
  - THERE ARE NO KNOWN SUBSURFACE DRAINS, EXISTING OR PROPOSED, WITHIN 50 FEET OF THE PROPOSED OWTS.
  - ALL PVC PIPE SHALL BE 4\"/>

- Leachfield Sizing**
- 4 BEDROOMS X 115 GALLONS PER BEDR/DAY = 460 GALLONS PER DAY
  - DESIGN LOADING RATE, SOIL CATEGORY 1 = 0.70 GAL/S.F./DAY
  - 460 GPD / 0.70 GAL/S.F./DAY = 658 S.F. LEACHING AREA REQUIRED
  - 658 S.F. / 24.8 S.F. PER L.F. OF GST 6218 = 27 LF REQUIRED  
28 LF PROVIDED
  - 28 X 24.8 S.F. PER L.F. = 695 S.F. LEACHING AREA PROVIDED
- MATERIAL QUANTITIES:**
- 3/4\"/>



ON-SITE WASTEWATER TREATMENT SYSTEM PROFILE  
NOT TO SCALE



**Advanced Civil Design, Inc.**  
SITE/CIVIL ENGINEERS  
88 PEEPTOAD ROAD  
SCITUATE, RI 02857  
PH: (401) 473-4404

2	6-2022	UPDATE EFFECTIVE DATE FOR OWTS RULES
1	6-2022	ADDRESS RIDEM COMMENTS

NO. DATE REVISION

PROJECT TITLE:  
**Proposed 4-Bedroom Single Family Dwelling**  
A.P. 50 LOT 105  
541 LOG ROAD  
SMITHFIELD, RI 02917

OWNER/APPLICANT:  
HERITAGE BUILDERS

DRAWING TITLE:  
**ON-SITE WASTEWATER TREATMENT SYSTEM PLAN & DETAILS**

DATE: 5/2022 DESIGNED BY: C.S.R.  
SCALE: 1"=40' CHECKED BY: C.S.R.

CURTIS S. RYDZINSKI  
No. 8756  
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

**C-1**  
SHEET 1 OF 1