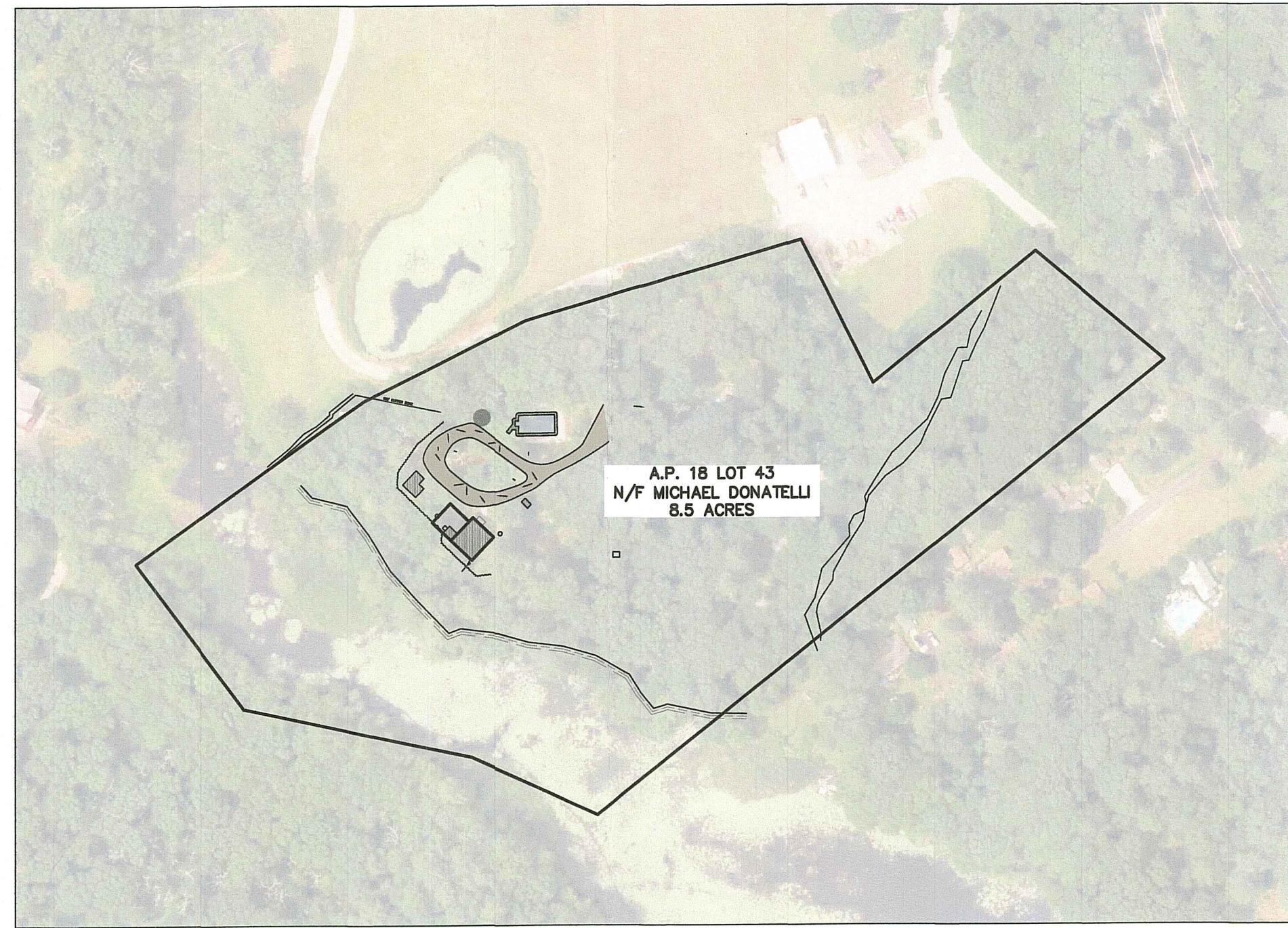
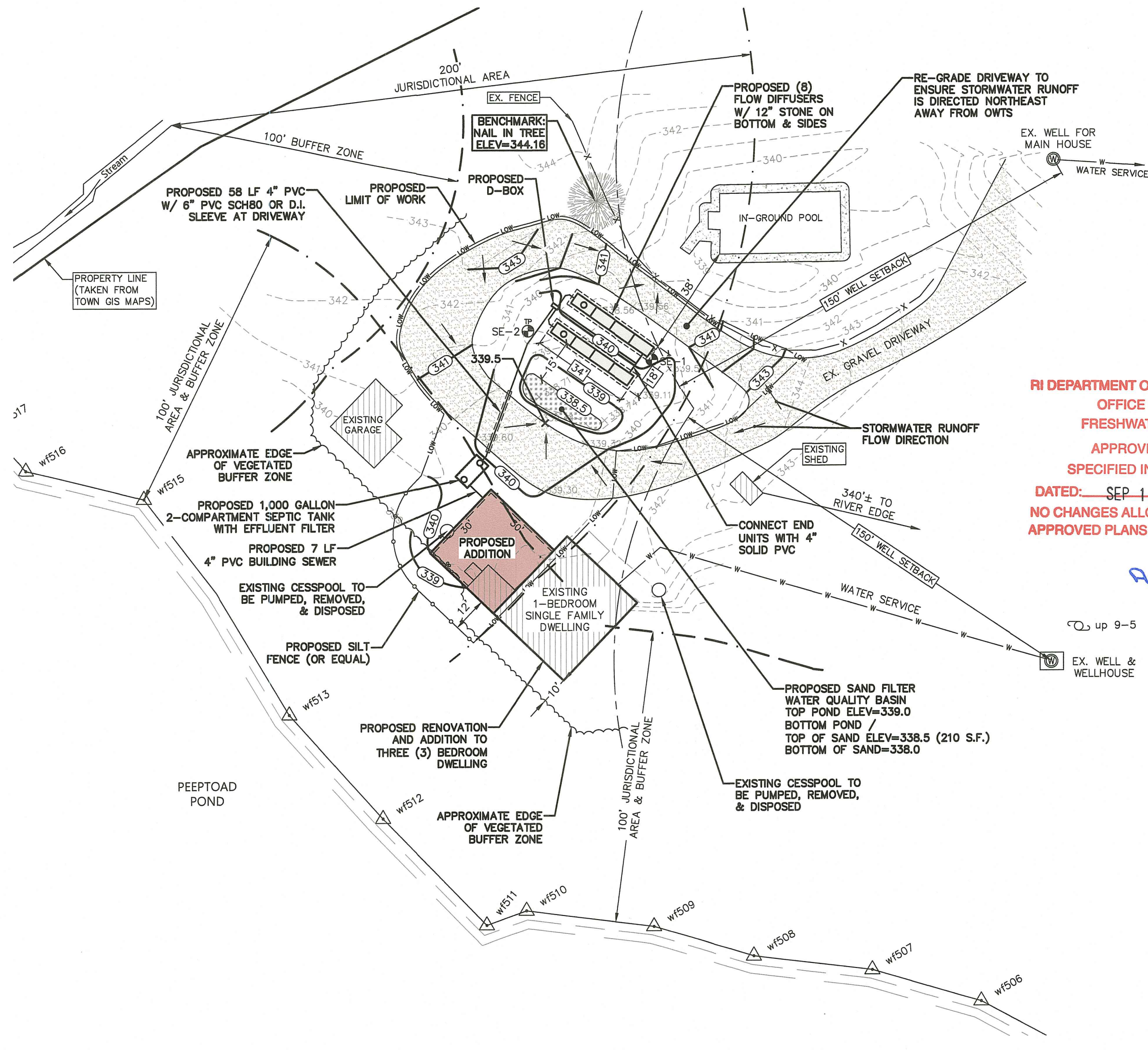


**LEGEND & SYMBOLS**

- 400 --- EXISTING CONTOUR
- TEST HOLE
- PROPOSED CONTOUR
- SILT FENCE OR EQUAL
- LIMIT OF WORK



**Overall Site Plan**  
1"=150'



**RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM**

**APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL**

**DATED: SEP 13 2023 FILE #: 23-0140**

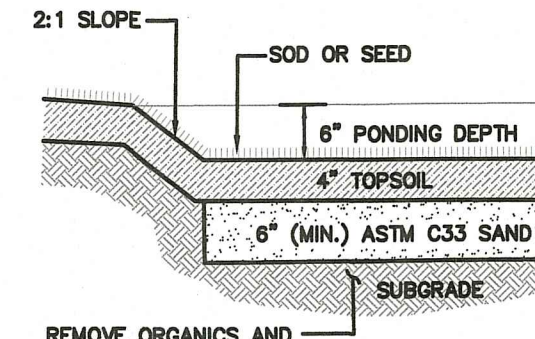
**NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL**

**APPROVED PLANS MUST BE AT CONSTRUCTION SITE**

*Andy Clayton*

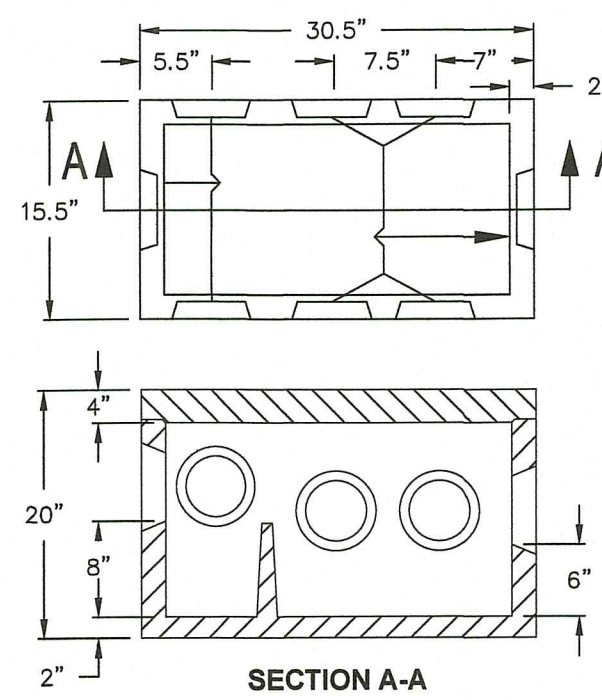
**OWTS Design Calculation**

DESIGN DATA	
1. THREE (3) BEDROOMS X 115 GAL/DAY=	345 GALLONS PER DAY
2. LOADING RATE BASED ON SOIL CATEGORY 1m =	0.61 GAL/S.F./DAY
3. 345 GPD / 0.61 GAL/S.F./DAY =	566 S.F. LEACHING AREA REQUIRED
LEACHFIELD SIZING USING FLOW DIFFUSERS (12" STONE BELOW)	
1. FOUR (4) END CHAMBERS = 4 X 78 S.F. PER CHAMBER =	312 S.F.
2. 566 S.F. - 312 S.F. = 254 S.F. / 64 S.F. PER MIDDLE CHAMBER =	4 MIDDLE CHAMBERS REQUIRED
3. TOTAL FLOW DIFFUSERS REQUIRED =	8 CHAMBERS (568 LEACHING AREA)

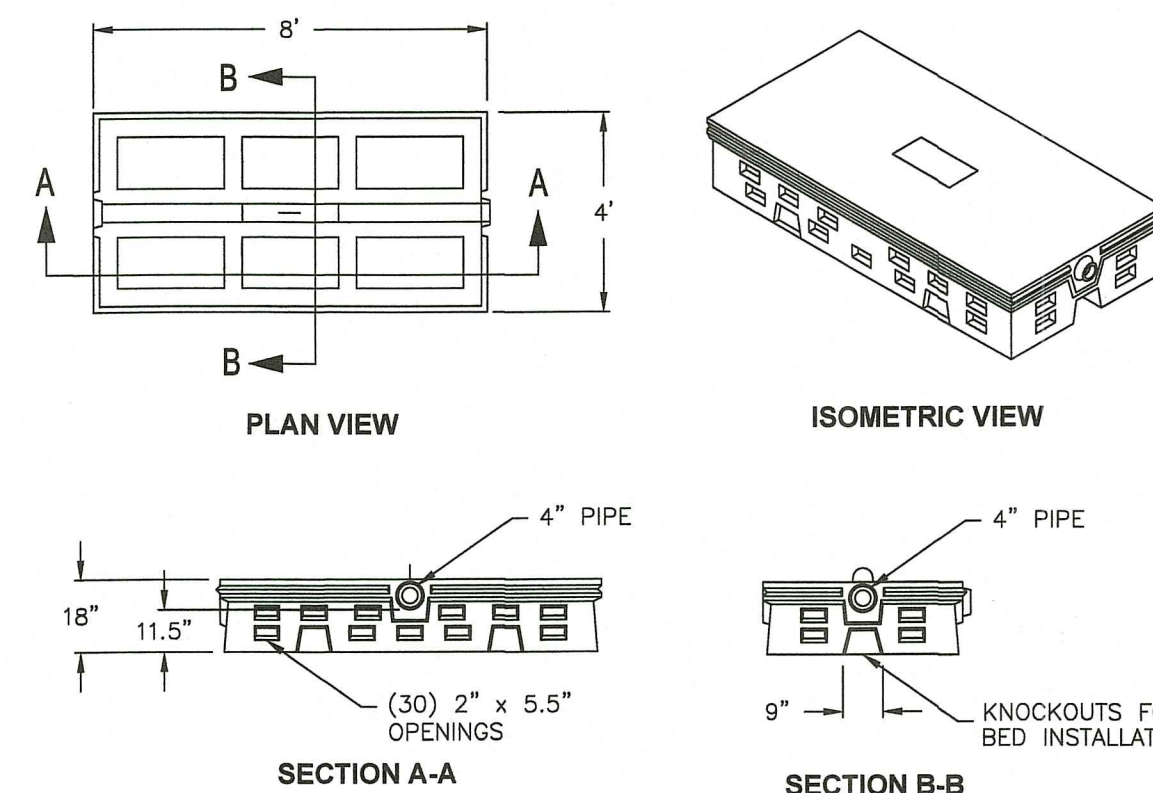


**Sand Filter Detail**  
NOT TO SCALE

Sand Filter Sizing			
Contributing Impervious Area from Driveway	Treatment Area Calculation for 6" Deep Sand Filter	Treatment Area Required (S.F.)	Treatment Area Provided (S.F.)
900 SF	150 SF per 1,000 SF	135	210



**DB-5 DISTRIBUTION BOX**  
NOT TO SCALE



**PRECAST FLOW DIFFUSER (H2O RATED)**  
NOT TO SCALE

**CP CONCRETE PRODUCTS**  
Terry Lane  
Glocester, RI 02834  
(401) 568-8874

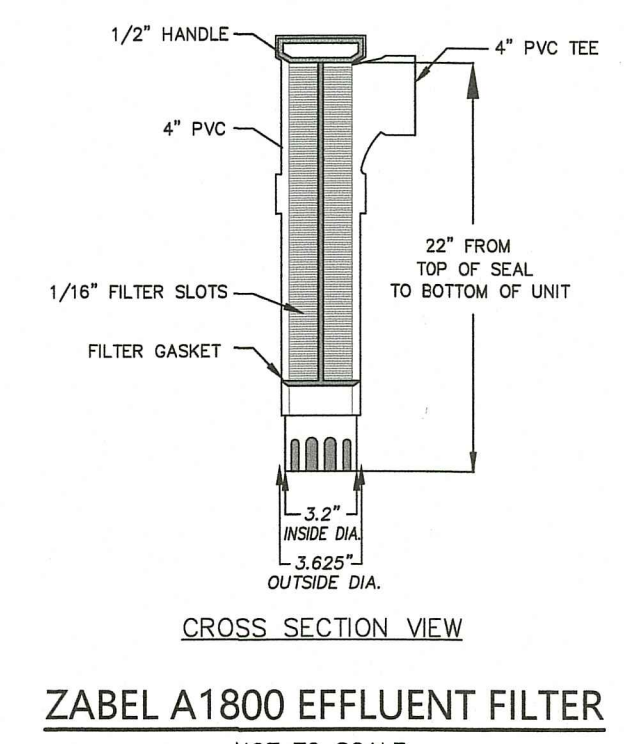
**PRODUCT CODE: CPST-1000-2**

**1,000 Gallon Septic Tank - 2 Compartment**

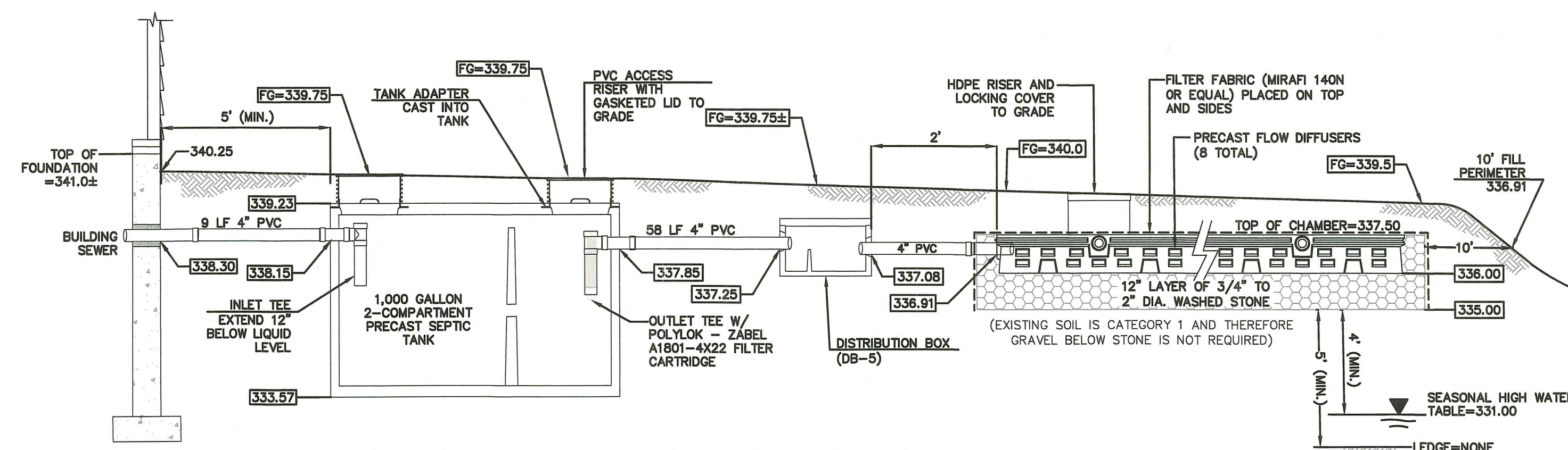
**DESIGN NOTES:**

- Holes and cutouts have flange approved seals.
- Concrete is 3000 psi 4" min.
- All joints sealed with a sand rubber mastic.
- Top, bottom, and sides minimum wall 8" min.
- Cover approved - Cover Panel - 48" Dia - 20 min.

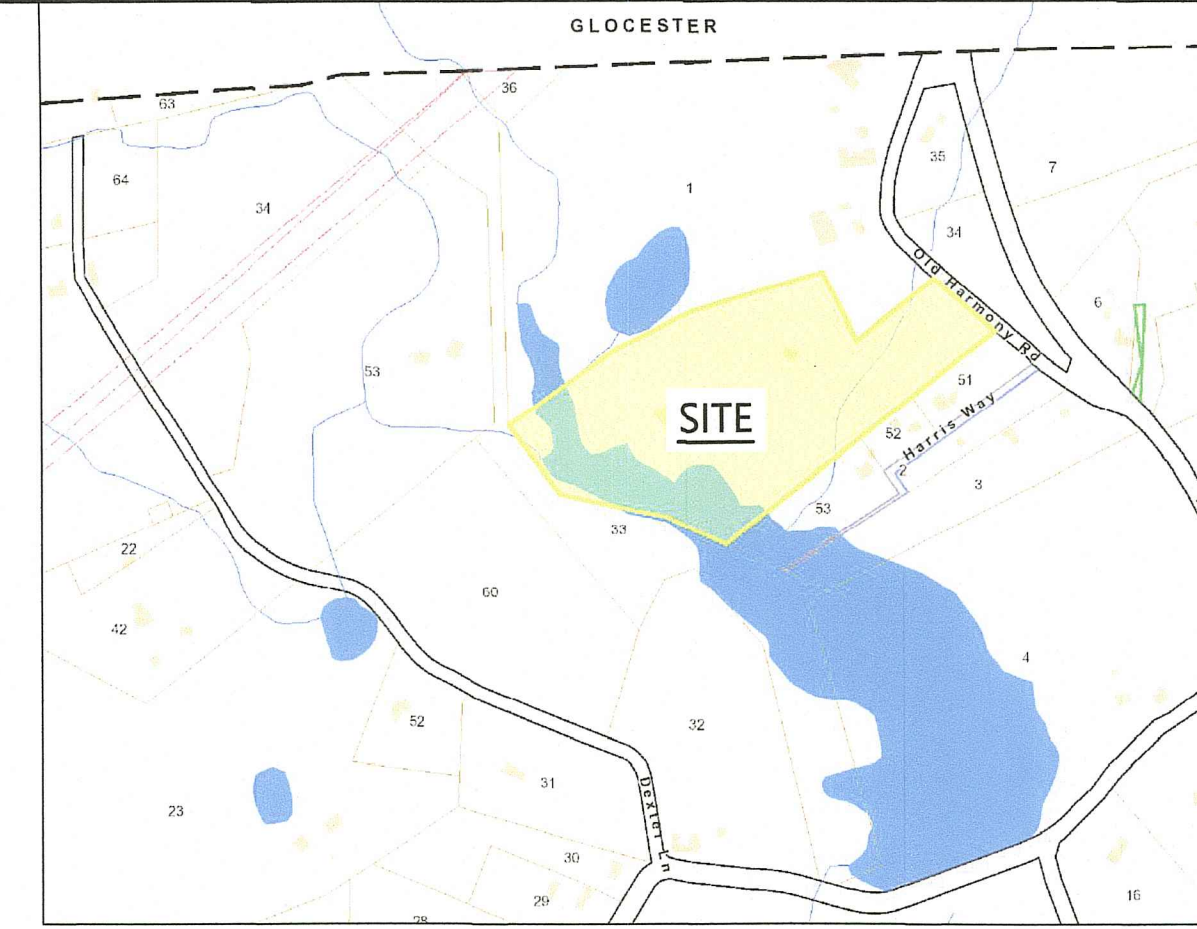
Pre-cast Bulkheads, Steps, and Septic Tanks



**ZABEL A1800 EFFLUENT FILTER**  
NOT TO SCALE



**ON-SITE WASTEWATER TREATMENT SYSTEM PROFILE**  
NOT TO SCALE



**Locus Map**  
NOT TO SCALE

ZONE RS-120	
MINIMUM LOT AREA	120,000 S.F.
MINIMUM FRONTAGE AND WIDTH	300 FT.
FRONT YARD SETBACK	35 FT.
SIDE YARD SETBACK	35 FT.
REAR YARD SETBACK	60 FT.
MAX. LOT COVERAGE	15%
MAX. BUILDING HEIGHT	38 FT.

**General Notes**

- PROPERTY LINES ARE TAKEN FROM THE TOWN OF SOTUIATE GIS SYSTEM AND ARE TO BE CONSIDERED APPROXIMATE AND IS NOT TO BE CONSIDERED A PROPERTY LINE SURVEY.
- TOPOGRAPHY AND EXISTING CONDITIONS WAS OBTAINED FROM FIELD SURVEY INSTRUMENTATION BY ADVANCED CIVIL DESIGN, INC.
- WETLANDS HAVE BEEN DELINEATED BY McQUE ENVIRONMENTAL, LLC.
- CONTRACTOR SHALL NOTIFY DIG-72 HOURS PRIOR TO START OF CONSTRUCTION.
- EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO EARTH DISTURBING ACTIVITIES.
- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE TO COORDINATE AND OBTAIN ALL PERMITS FOR CONSTRUCTION.

**OWTS 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 ONSITE WASTEWATER TREATMENT SYSTEMS, EFFECTIVE NOVEMBER 25, 2018 AND ALL AMENDMENTS, BY THE RHODE ISLAND DEPT. OF ENVIRONMENTAL MANAGEMENT.
- STRIP LEACHING AREA EXCAVATE DOWN TO ELEVATION 334.84 (OR AS REQUIRED UPON INSPECTIONS) AND REPLACE WITH GRAVEL AS SPECIFIED IN RIDEM REGULATIONS.
- INSTALLER MUST ASSURE THAT BOTTOM AND SIDES OF EXCAVATION FOR THE LEACHFIELD ARE NOT COMPACTED OR SWEARED.
- ALL TREES, STUMPS, AND BRUSH SHALL BE REMOVED WITHIN 10 FEET OF THE SYSTEM.
- MAINTAIN INVERT ELEVATION OF 338.81 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 500 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" DIA. SDR 35 OR EQUIVALENT, UNLESS NOTED OTHERWISE.
- THE SEPTIC TANK SHALL HAVE TEES ON BOTH THE INLET AND OUTLET AND SHALL BE A TWO (2) COMPARTMENT TANK WITH THE 1ST COMPARTMENT CONSISTING OF 2/3 TANK CAPACITY.
- THE DISTRIBUTION BOX SHALL HAVE A MINIMUM BOTTOM AREA OF 3 SQUARE FEET.
- NO VEHICULAR TRAFFIC IS ALLOWED OVER THE LEACHFIELD.
- THE INSTALLER SHALL CONTACT THE DESIGN OF RECORD AT LEAST 24 HOURS PRIOR TO START OF CONSTRUCTION.

**Advanced Civil Design, Inc.**  
CIVIL ENGINEERS

88 PEEPTOAD ROAD  
SOTUIATE, RI 02857  
PH: (401) 473-4404

NO.	DATE	REVISION
1	8/17/23	ADDRESS RIDEM WETLAND / OWTS COMMENTS

**Proposed Single Family Addition**

ASSESSOR'S PLAT 18 LOT 43  
23C OLD HARMONY ROAD  
SOTUIATE, RI 02857

OWNER/APPLICANT:

Michael Donatelli  
154 DEXTER LANE  
SOTUIATE, RI 02857

AUG 18 2023

DRAWING TITLE:

**ON-SITE WASTEWATER TREATMENT SYSTEM (OWTS) ALTERATION PLAN**

DATE: MAY 2023	DESIGNED BY: C.S.R.
SCALE: AS NOTED	CHECKED BY: C.S.R.

DRAWING NO.

**C-1**