

**LEGEND**

- 270 ——— EX. CONTOUR
- ZONE SETBACK
- ADJUTER PROPERTY LINE
- OWNER PROPERTY LINE
- 270 ——— PROPOSED CONTOUR
- WET SEASON EVALUATION PERCOLATION TEST
- LEDGE PROBES
- WETLAND FLAG

**Flood Note**

FLOOD NOTE - ZONE X AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN PANEL #44007C0277C.

**GENERAL NOTES**

1. THE OWTS INSTALLER SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES DEPICTED ON THIS PLAN.
2. THE INSTALLER SHALL NOTIFY THIS DESIGNER 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
3. THE DESIGNER SHALL BE CONTACTED IF ANY DISCREPANCIES ARE FOUND IN THE FIELD.
4. THE INSTALLER SHALL CONTACT THE DESIGNER AT LEAST 24 HOURS IN ADVANCE FOR BOTTOM AND COVER INSPECTIONS.
5. EXISTING TOPOGRAPHY FROM FIELD MEASUREMENTS BY INTERNATIONAL MAPPING & SURVEYING INC. EXISTING CONDITIONS TO BE VERIFIED BY THE CONTRACTOR.

**CERTIFICATION:**

THIS SURVEY AND PLAN CONFORM TO A CLASS III STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

**PUMP DESIGN**

DOSE 2.0 GAL / FLOW DIFFUSER UNIT  
 ASSUME DESIGN FLOW OF 460 GPD  
 2.0 GAL X 10 UNITS = 20.0 GAL/DOSE  
 PUMP DRAW DOWN 20.0 / 7.48 = 3.14 (R SQ) X D  
 D = 0.85' = 10.2"  
 PUMP CYCLE TIME 20.0 / 28 GPM = 0.71 MIN. = 43 SEC

**INVERT SCHEDULE**

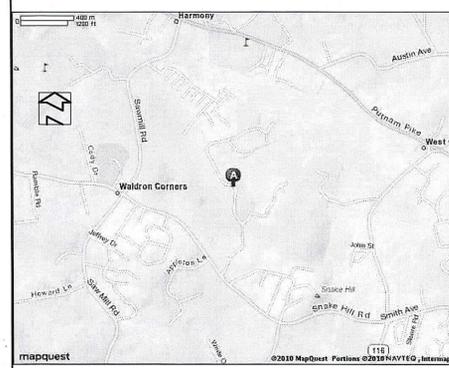
SEPTIC TANK IN 172.00  
 SEPTIC TANK OUT 171.75  
 PUMP CHAMBER IN 171.55  
 PUMP CHAMBER OUT 172.00  
 D-BOX IN 184.34  
 D-BOX OUT 184.17  
 LEACHFIELD IN 184.00  
 10 FT. FILL PERIMETER 184.00  
 BOTTOM OF STRIP 181.50  
 DESIGN WATER TABLE 179.0 (LEACHFIELD ONLY)

**DESIGN CALCULATION**

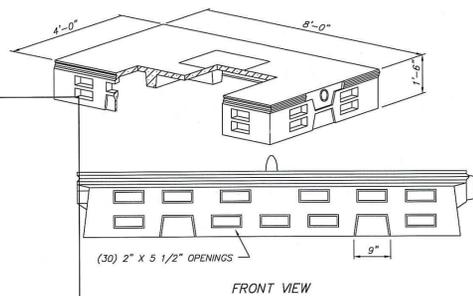
• 4 BEDROOM DESIGN X 115 GAL/DAY = 460 GALLONS PER DAY  
 • LOADING RATE BASED ON SOIL CATEGORY 4m = 0.70 GAL/S.F./DAY  
 • 460 GPD / 0.70 GAL/S.F./DAY = 657 S.F. LEACHING AREA REQUIRED  
 • 657 S.F. / 64 S.F. PER MID UNIT & 78 S.F. / END = 10 CHAMBERS REQUIRED  
 • TOTAL AREA PROVIDED = 696 S.F. > 657 S.F.

**OWTS NOTES:**

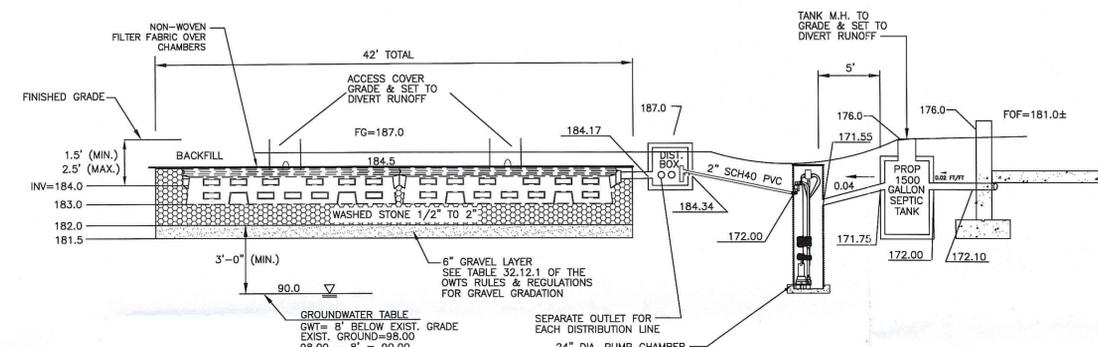
1. ALL DESIGN, CONSTRUCTION, AND MAINTENANCE REQUIREMENTS, WHETHER NOTED HEREON OR NOT, SHALL BE IN CONFORMANCE WITH RULES AND REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATIVE TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS, JANUARY 1, 2008 AND ALL AMENDMENTS, BY THE RHODE ISLAND DEPT. OF ENVIRONMENTAL MANAGEMENT.
2. STRIP LEACHING AREA OUT TO 0 FEET AROUND ENTIRE PERIMETER AND EXCAVATE DOWN TO ELEVATION 181.5, REMOVING ALL TREES, BRUSH, TOPSOIL, SUBSOIL, UNDESIRABLE MATERIAL AND SOIL CONTAINING PINES, REPLACE WITH GRAVEL IF REQUIRED AS SPECIFIED IN RIDEM REGULATIONS.
3. INSTALLER MUST ASSURE THAT BOTTOM AND SIDES OF EXCAVATION FOR THE LEACHFIELD ARE NOT COMPACTED OR SMEARED.
4. ALL TREES, STUMPS, AND BRUSH SHALL BE REMOVED WITHIN 10 FEET OF THE SYSTEM.
5. MAINTAIN INVERT ELEVATION OF 184.0 FOR 10 FEET AROUND SYSTEM.
6. 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 ISDS.
7. THERE ARE NO KNOWN SUBSURFACE DRAINS, EXISTING OR PROPOSED, WITHIN 50 FEET OF THE PROPOSED OWTS.
8. ALL PVC PIPE SHALL BE 4" DIA. SDR 35 OR EQUIVALENT, UNLESS NOTED OTHERWISE.
9. 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.
10. THE DISTRIBUTION BOX SHALL HAVE A MINIMUM BOTTOM AREA OF 3 SQUARE FEET.
11. NO VEHICULAR TRAFFIC IS ALLOWED OVER THE LEACHFIELD.



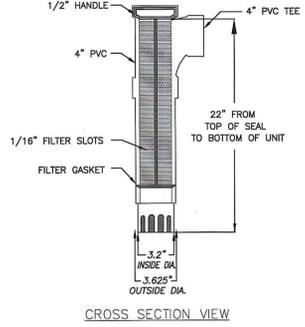
**LOCUS MAP** NOT TO SCALE



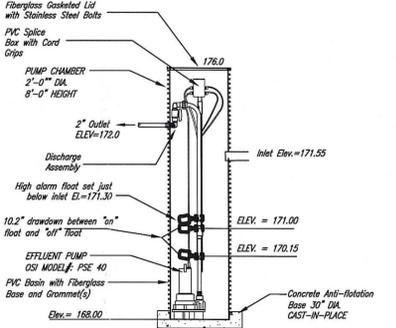
**SHALLOW CONCRETE CHAMBER** NOT TO SCALE



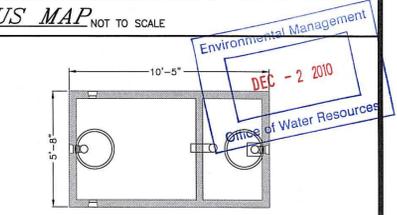
**ON-SITE WASTEWATER TREATMENT SYSTEM PROFILE** NOT TO SCALE



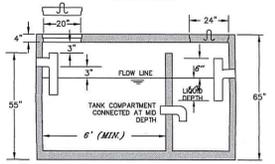
**ZABEL A1800 EFFLUENT FILTER** NOT TO SCALE



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**PLAN VIEW**

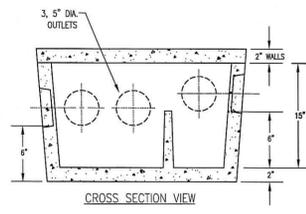


**CROSS SECTION VIEW**

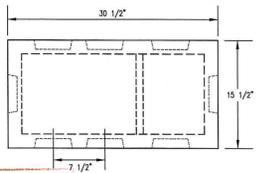
- DESIGN NOTES:
- 1) ALL JOINTS SEALED WITH BUTYL RUBBER SEALANT
  - 2) ALL INLETS AND OUTLETS HAVE STATE-APPROVED SEALS
  - 3) AVAILABLE WITH 8\"/>
  - 4) MEETS ASTM C 1227-97A
  - 5) CONCRETE STRENGTH 5000 PSI MIN. 28 DAYS
  - 6) FIRST COMPARTMENT SHALL HAVE 2/3 TANK CAPACITY.

**1500 GALLON 2-COMPARTMENT SEPTIC TANK**

JOLLY PRECAST OR EQUAL NOT TO SCALE

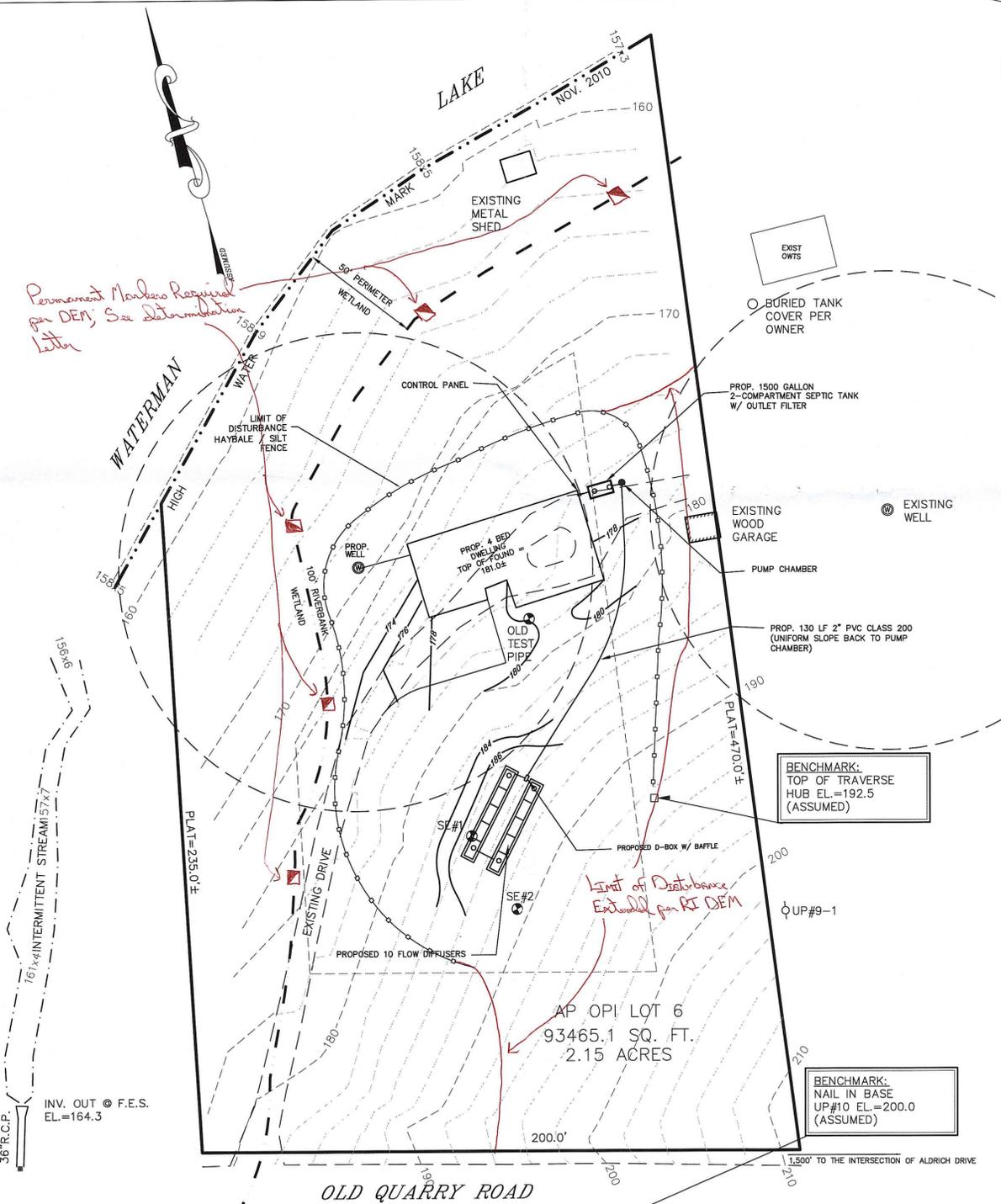


**CROSS SECTION VIEW**



**PLAN VIEW**

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 REVIEWED SITE PLAN APPLICATION  
 DATED JAN 5 2010  
 SEE LETTER OF SAME DATE.

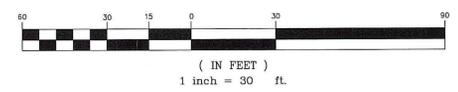


INV. OUT @ F.E.S. EL.=164.3

Limit of Disturbance Extended for R.I. DEM

AP OPI LOT 6  
 93465.1 SQ. FT.  
 2.15 ACRES

BENCHMARK: NAIL IN BASE UP#10 EL.=200.0 (ASSUMED)



( IN FEET )  
 1 inch = 30 ft.

**OWTS SITE PLAN & DETAILS**  
**OWTS DESIGN**  
 A.P. OPI LOT 6  
 OLD QUARRY ROAD GLOCESTER, RI  
 PREPARED FOR:  
 KEN ROBERTSON  
 102 WEST GREENVILLE ROAD GREENVILLE, R 02828

NICHOLAS J. PIAMPIANO  
 No. 6512  
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)

NO.	DATE	DESCRIPTION
1	12/17/10	PREP. W/ PLAN
	NOVEMBER 4, 2010	
	SCALE: AS NOTED	
	DESIGN/CHECK BY: C.S.R.	
	SHEET NO.	

**ADVANCED CIVIL DESIGN, INC.**  
 CIVIL ENGINEERS

7 COUNTRYSIDE LANE  
 SCITUATE, RI 02857

P1: (401) 644-8656  
 P2: (401) 473-4404

**1**  
 1 OF 1