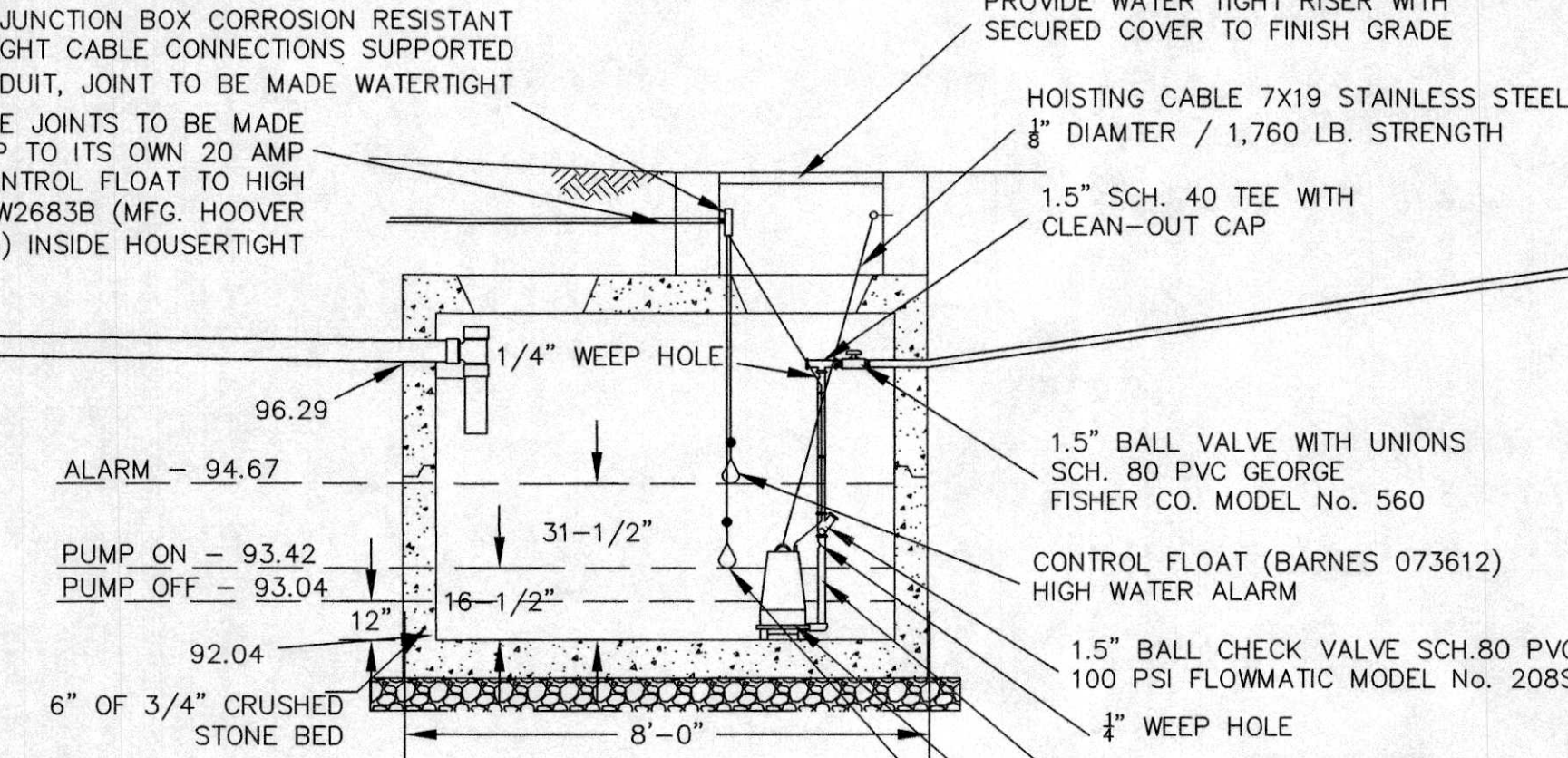
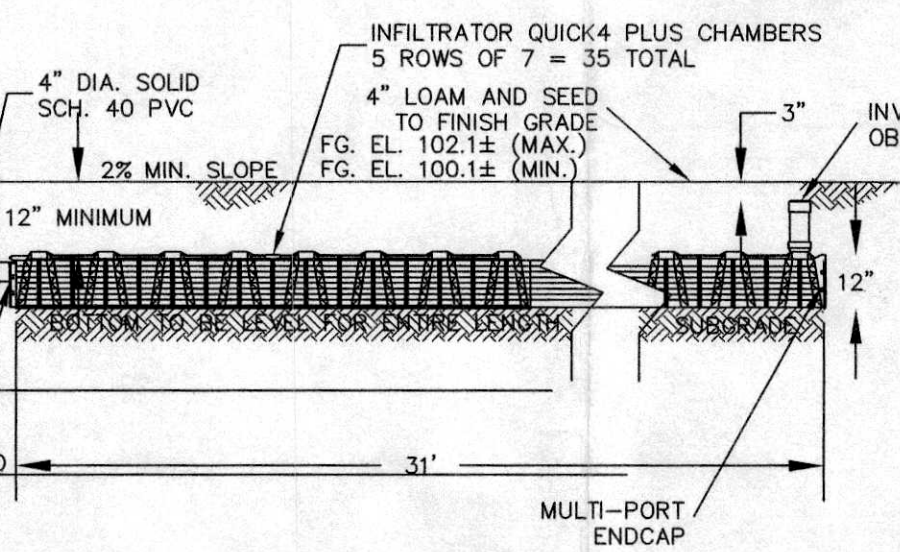


**PROPOSED 1,500 GALLON SEPTIC TANK DETAIL**  
N.T.S.

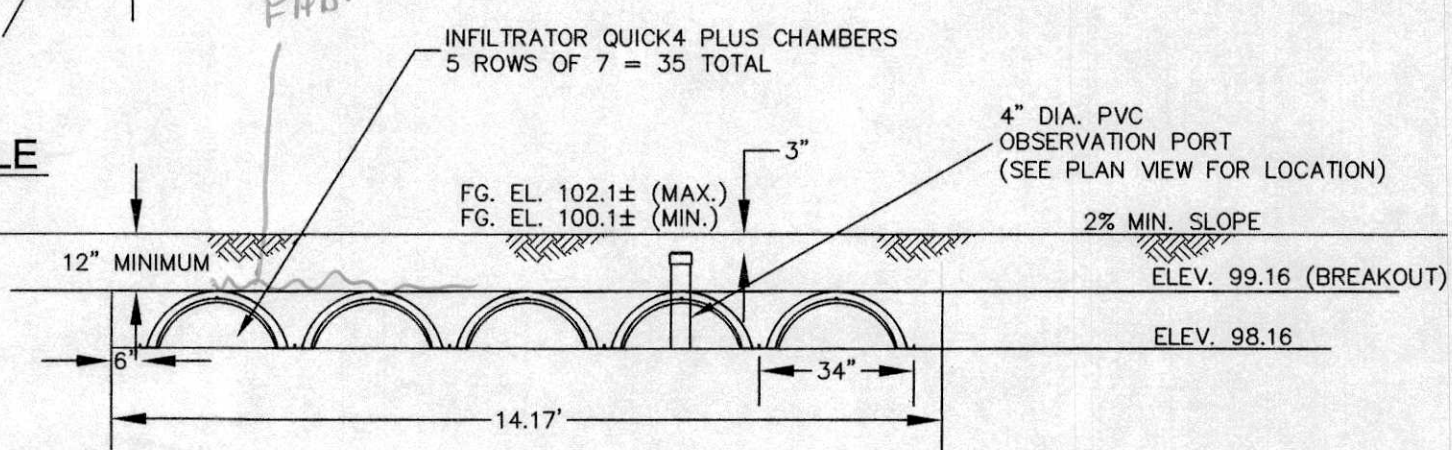
- NOTES:**
- SEPTIC TANK CONSTRUCTION SHALL BE IN ACCORDANCE WITH 310 CMR 15.226 OF TITLE V.
  - ALL SOLID 4" SCH. 40 PVC PIPE SHALL BE CONSTRUCTED WITH WATER-TIGHT JOINTS.



**DISTRIBUTION BOX DETAIL**  
N.T.S.

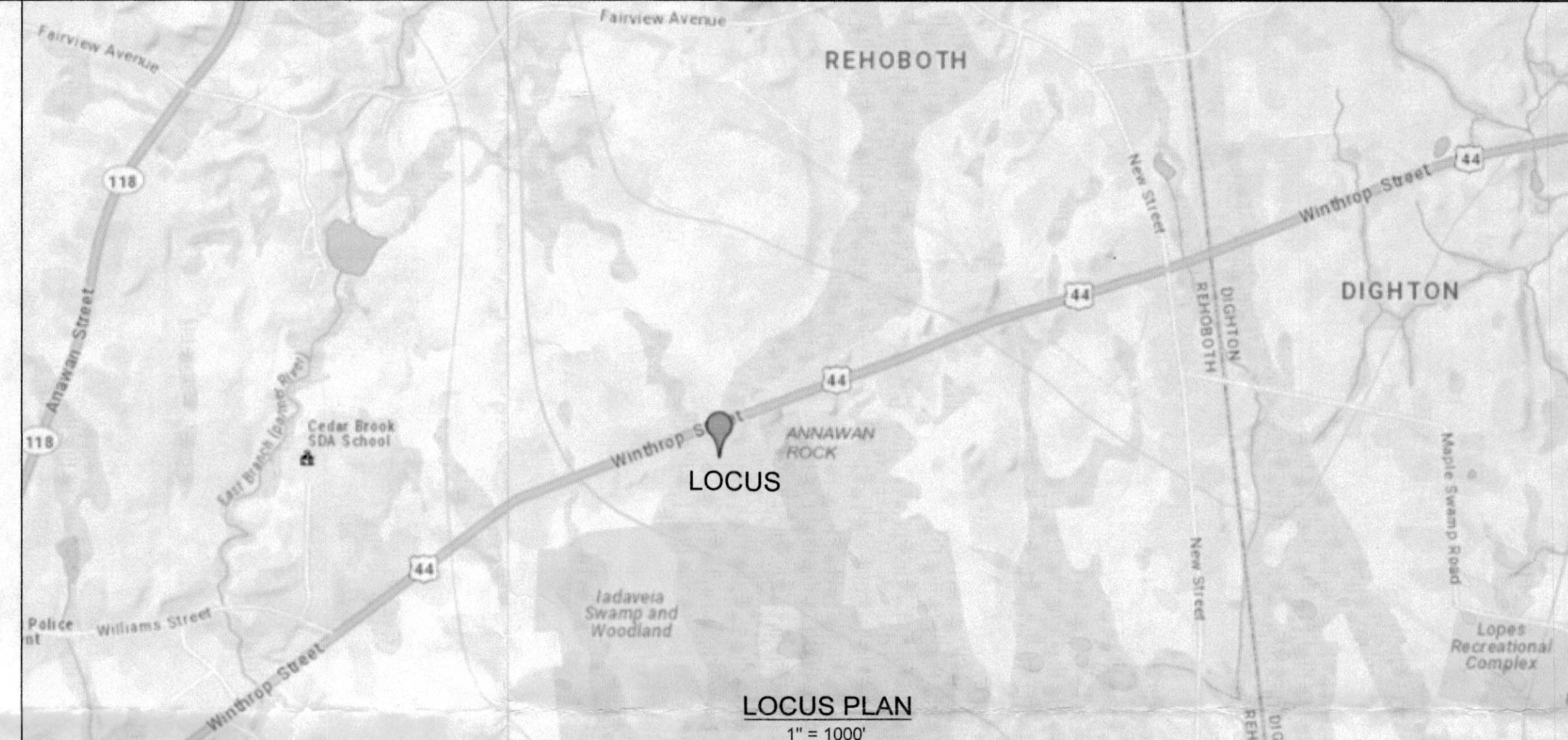
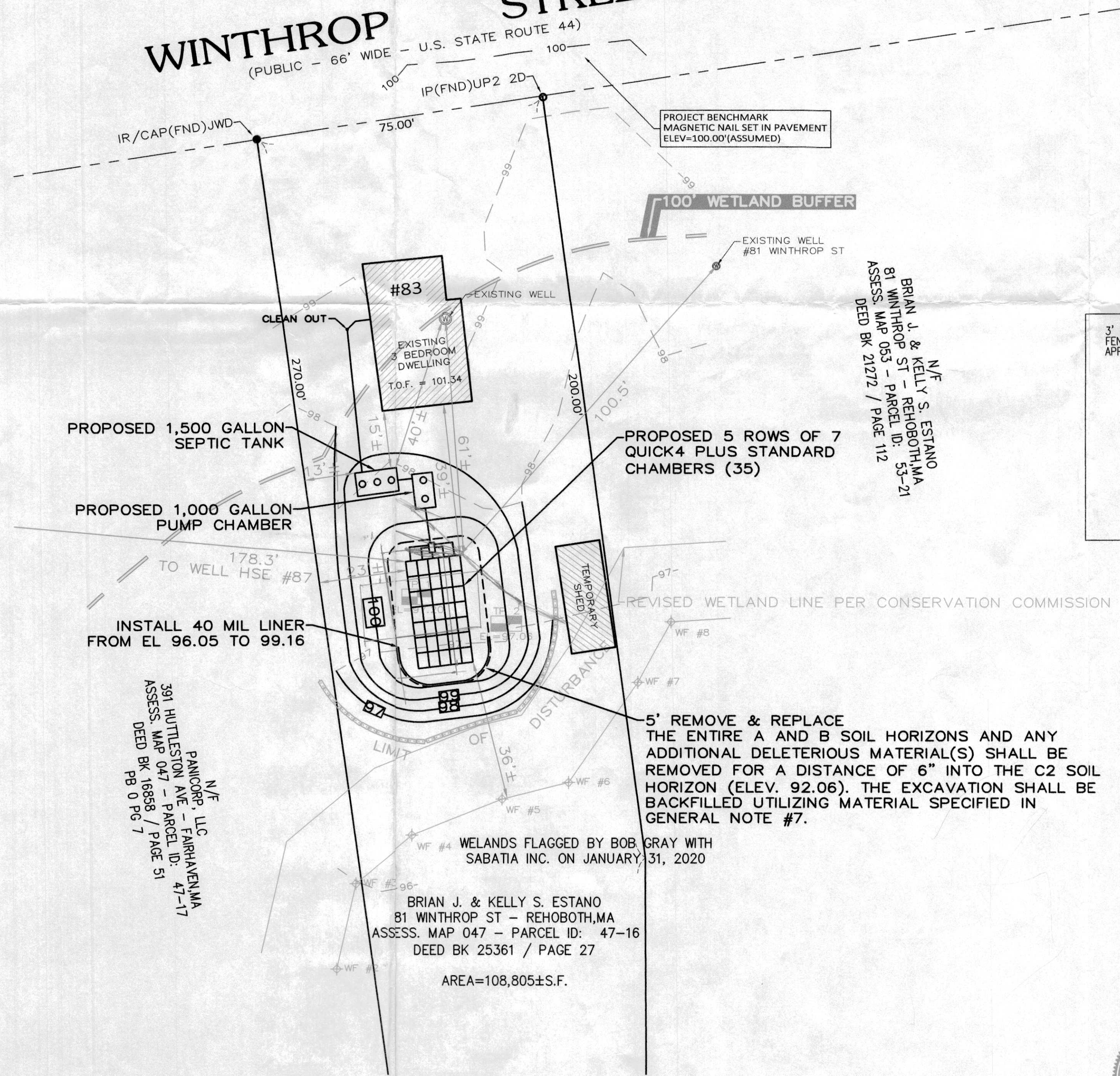


**ABSORPTION AREA PROFILE**  
N.T.S.



**ABSORPTION AREA TYPICAL SECTION**  
N.T.S.

**WINTHROP STREET**  
(PUBLIC - 66' WIDE - U.S. STATE ROUTE 44)



**DESIGN DATA**

DESIGN FLOW: 3 BEDROOMS @ 110 GALLONS PER DAY PER BEDROOM X 125% = 412.5 GPD (125% INCREASE PER TOWN BYLAW)  
REQUIRED SEPTIC TANK SIZE: 400 GPD X 200% = 800 GALLONS  
SEPTIC TANK PROVIDED: 1,500 GALLONS

**SOIL ABSORPTION SYSTEM DATA**

SOIL TEXTURAL CLASS: CLASS I  
PERCOLATION RATE: 0.66 GPD/SF  
EFFLUENT LOADING RATE: 4.72 SF/LF  
TYPE OF SYSTEM: LEACHING BED WITH QUICK 4 PLUS INFILTRATOR CHAMBERS  
SIZE OF SYSTEM: 5 ROWS OF 7 CHAMBERS = 35 CHAMBERS AT 4.72 SF/LF  
35 CHAMBERS AT 4.0 FT = 140 LF = 680.8 SF  
680.8 SF AT 0.66 GPD/SF = 438 GPD > 412.5 GPD

**SOIL TEST PIT DATA:**

TEST PIT: #1	TEST PIT: #2
GROUND ELEVATION: 97.20'	GROUND ELEVATION: 97.06'
ESHGW: NONE	ESHGW: NONE
0" - Ag - 10YR 4/1 SANDY LOAM	0" - Ag - 10YR 4/1 SANDY SAND
11" - Bw - 10YR 5/3 SANDY LOAM	10" - Bw - 10YR 5/3 SANDY LOAM
23" - C1 - 2.5Y 6/1 SANDY LOAM	28" - C1 - 2.5Y 6/3 SAND
50" - C2 - 2.5Y 5/4 SANDY LOAM	54" - C2 - 2.5Y 6/1 SANDY LOAM
120" - C3 - 2.5Y 6/1 SANDY LOAM	70" - C3 - 2.5Y 6/1 SANDY LOAM
DATE PERFORMED: 2/18/2020	DATE PERFORMED: 2/18/2020
WITNESSED BY: KARL DROWN	WITNESSED BY: KARL DROWN
PERFORMED BY: RAYMOND L. FRANCISCO	PERFORMED BY: RAYMOND L. FRANCISCO
PERCOLATION RATE: NO PERC	PERCOLATION RATE: WEeping GROUdWATER IN TEST HOLE TO HIGH TO PERFORM PERC TEST. SIEVE ANALYSIS IN ACCORDANCE WITH TITLE 5 ALTERNATIVE TO PERCOLATION TESTING GUIDANCE FOR SYSTEM UPDATES DATED 5-3-2006 YIELDS A CLASS I UNCOMPACTED SOIL WITH AN ELR OF .66 GPD/SF

- GENERAL NOTES**
- ALL PRECAST CONCRETE STRUCTURES TO BE J&R PRECAST PRODUCTS OR EQUAL (4000 PSI MIN.)
  - ALL SYSTEM COMPONENTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH TITLE V OF THE STATE ENVIRONMENTAL CODE AND ANY APPLICABLE LOCAL REGULATIONS.
  - ALL PIPING OUTSIDE LEACHING AREA MUST BE 4" DIAMETER SOLID CAST IRON OR SCHEDULE 80 PVC AND MADE WATER TIGHT.
  - ALL STONE SHALL BE DOUBLE WASHED AND FREE OF IRON, CLAYS, FINES AND OTHER DEBRIS.
  - SYSTEM MAY NOT BE BACKFILLED AND COVERED UNTIL INSPECTED BY BOARD OF HEALTH AGENT AND THE DESIGN ENGINEER.
  - ANY ALTERATIONS TO THIS PLAN MUST HAVE PRIOR APPROVAL OF THE DESIGN ENGINEER OR THIS PLAN IS VOID.
  - FILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF 310 CMR 15.255 AND THE CONTRACTOR SHALL PROVIDE SIEVE ANALYSIS DATA UPON THE REQUEST OF THE DESIGN ENGINEER OR BOARD OF HEALTH.
  - INSPECTION COVERS ON SEPTIC TANK SHALL BE BROUGHT TO FINISH GRADE.
  - LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO EXCAVATION.
  - THE SEPTIC TANK AND DISTRIBUTION BOX SHALL BE SET ON SIX INCHES OF CRUSHED STONE PLACED ON A COMPACTED LEVEL BASE.
  - NO GARBAGE DISPOSAL/GRINDER IS ALLOWED WITH THIS SYSTEM.
  - THERE ARE NO WELLS LOCATED WITHIN 100 FEET OF THE SOIL ABSORPTION AREA.
  - ELEVATIONS SHOWN ON THIS PLAN ARE ASSUMED.
  - THE PROPERTY LIES IN FEMA/FIRM FLOOD ZONE X, WHICH IS ABOVE 100-YEAR FLOOD.
  - ALL SYSTEM COMPONENTS ARE TO BE DELINEATED WITH MAGNETIC MARKING TAPE PRIOR TO BACKFILL AS PER TITLE 5.
  - NO WETLAND SYSTEMS ARE PRESENT IN THE PROJECT AREA SHOWN HEREON.
  - THIS PLAN IS THE RESULT OF AN ON-THE-GROUND SURVEY PERFORMED BY LIGHTHOUSE LAND SURVEYING, LLC IN MARCH 2020.

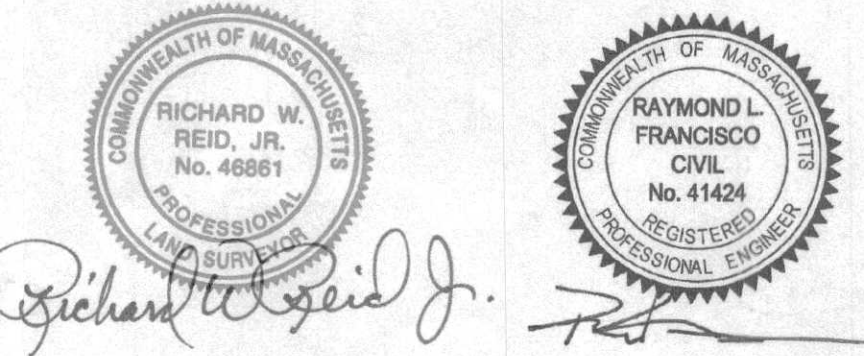
**SITE PLAN**  
**FOR A SEPTIC SYSTEM REPAIR AT**  
**ASSESSORS MAP 47 LOT 16**  
**83 WINTHROP STREET, REHOBOTH, MASSACHUSETTS**

PREPARED FOR: BRIAN J. & KELLY S. ESTANO  
ADDRESS: 81 WINTHROP STREET  
REHOBOTH, MASSACHUSETTS 02769

REV May 11, 2020  
DATE: MARCH 28, 2020  
SCALE: AS NOTED

DRAWN BY: MFF  
CHECKED BY: RLF

**RLF ENGINEERING SERVICES**  
54 ICE HOUSE ROAD  
TAUNTON, MASSACHUSETTS 02780  
TELEPHONE (508) 828-1125  
RAYMOND L. FRANCISCO, P.E.



THE ENTIRE A AND B SOIL HORIZONS AND ANY ADDITIONAL DELETERIOUS MATERIAL(S) SHALL BE REMOVED FOR A DISTANCE OF 6" INTO THE C1 SOIL HORIZON (ELEV. 92.06). THE EXCAVATION SHALL BE BACKFILLED UTILIZING MATERIAL SPECIFIED IN GENERAL NOTE #7.