

|        | Proposed Presby Elevations |               |                 |        |
|--------|----------------------------|---------------|-----------------|--------|
|        | 4" Inlet                   | Presby Invert | Bottom Sys Sand | Min FG |
| Line 1 | 99.43                      | 98.85         | 98.35           | 100.43 |
| Line 2 | 99.31                      | 98.73         | 98.23           | 100.31 |
| Line 3 | 99.19                      | 98.61         | 98.11           | 100.19 |
| Line 4 | 99.07                      | 98.49         | 97.99           | 100.07 |
| Line 5 | 98.95                      | 98.37         | 97.87           | 99.95  |
| Line 6 | 98.83                      | 98.25         | 97.75           | 99.83  |

Slope 8% = 3' System Sand Extension NOT Required

Design Criteria

SAS Sizing Design Data:  
Proposed 3 bedroom home @ 110 GPD/bedroom = 330 GPD  
Perc Rate = 3 Minutes per inch  
LTAR Title 5: 0.74 gpd/sqft  
Conventional Size Required: 330 GPD/0.74 GPD/sqft = 446 sqft  
Conventional Shown: 40' L x 15' W leach bed = 600 sqft

LTAR Presby ES min size: 400 sqft  
Linear Feet of Pipe Req'd: 210'  
Presby ES Field Provided: 42 ft x 10.5 ft = 441 sqft  
6 lines @ 40 ft (240 lf)  
1.50 (18") OC Spacing  
1' system sand beyond ends of pipes  
1' system sand beyond edges of pipes

Tank Calcs:  
Required: 330 GPD x 2 = 660 Gallons  
Provided: 1500 Gallon Dual Compartment (200%/100%) Monolithic Tank  
1000 Gallon Monolithic Pump Chamber

**Plan Information:**

This plan was created for the purposes of showing a proposed sewage disposal system and is NOT intended to be used for the reproduction of property lines. If property lines are in question, a survey should be performed by a Professional Land Surveyor.

This plan is for the design and construction of the sewage disposal facility only. The underground utilities denoted on this plan are based off of markings from proper entities and available records. The Designer is not responsible for any subsurface structures not accurately depicted on this plan.

4. Water softener/roof runoff/sump pump discharge shall not be tied into proposed septic system.

5. This plan may not be revised without the consent of the Designer and without Local Board of Health approval.

6. All known wells within 150 feet of this system have been identified.

7. System shall be pumped per 15.351.

8. The designers only warranty is that the property stated was designed in accordance with Title 5 and the local BOH regulations.

9. Boundary line information for this system stated on plan entitled "Plan of Land Littleton, MASS" Dated "July 23, 1971" by Clyde R. Wheeler Book 12080 , Page 304. The boundary lines shown are approximate only and may not be used for any other purpose than the septic plan.

Lot Information:  
 Water Source: Town water  
 Garbage Grinder: This septic system has NOT been designed for a garbage grinder. Any existing grinders shall be removed.  
 Nitrogen Sensitive Areas: Zone II - no; IWPA - no  
 Flood Plain: no

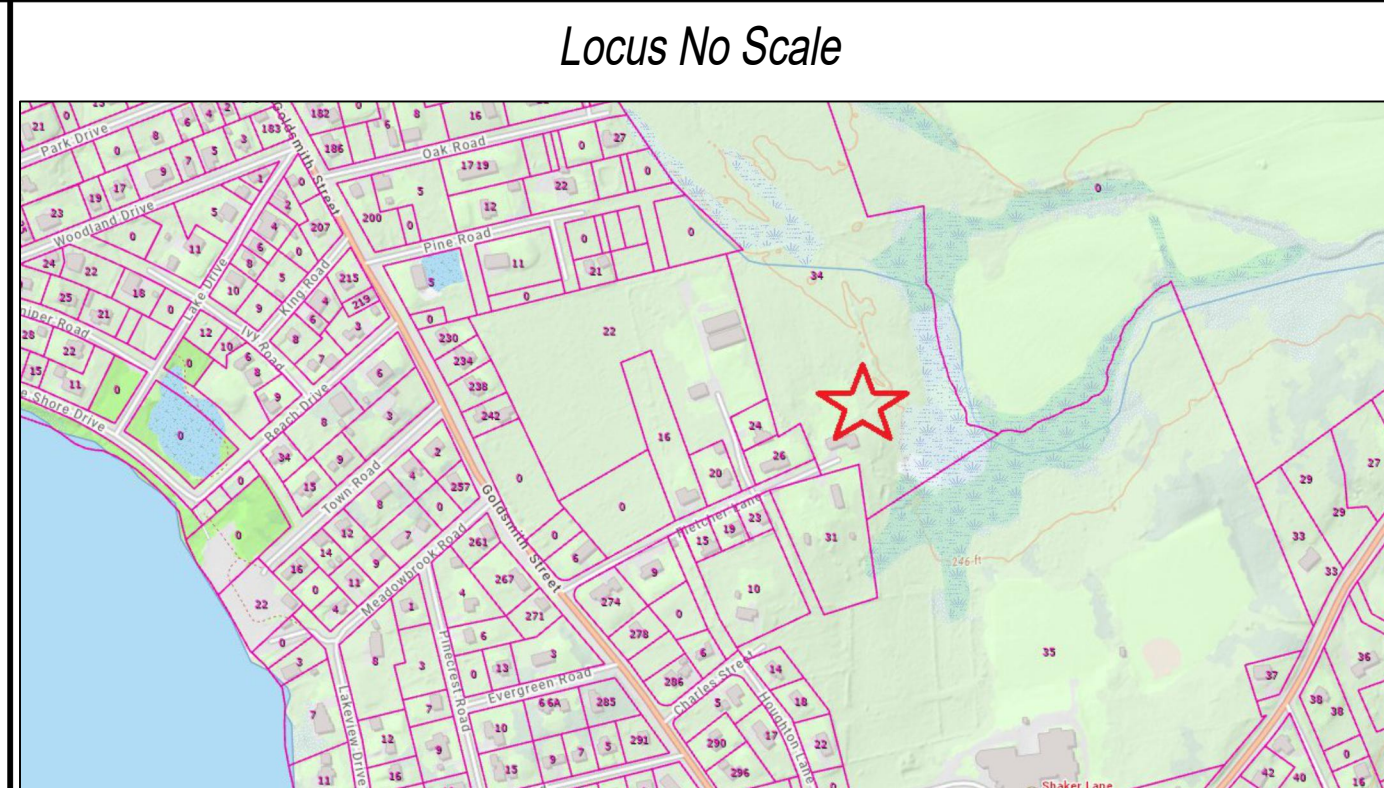
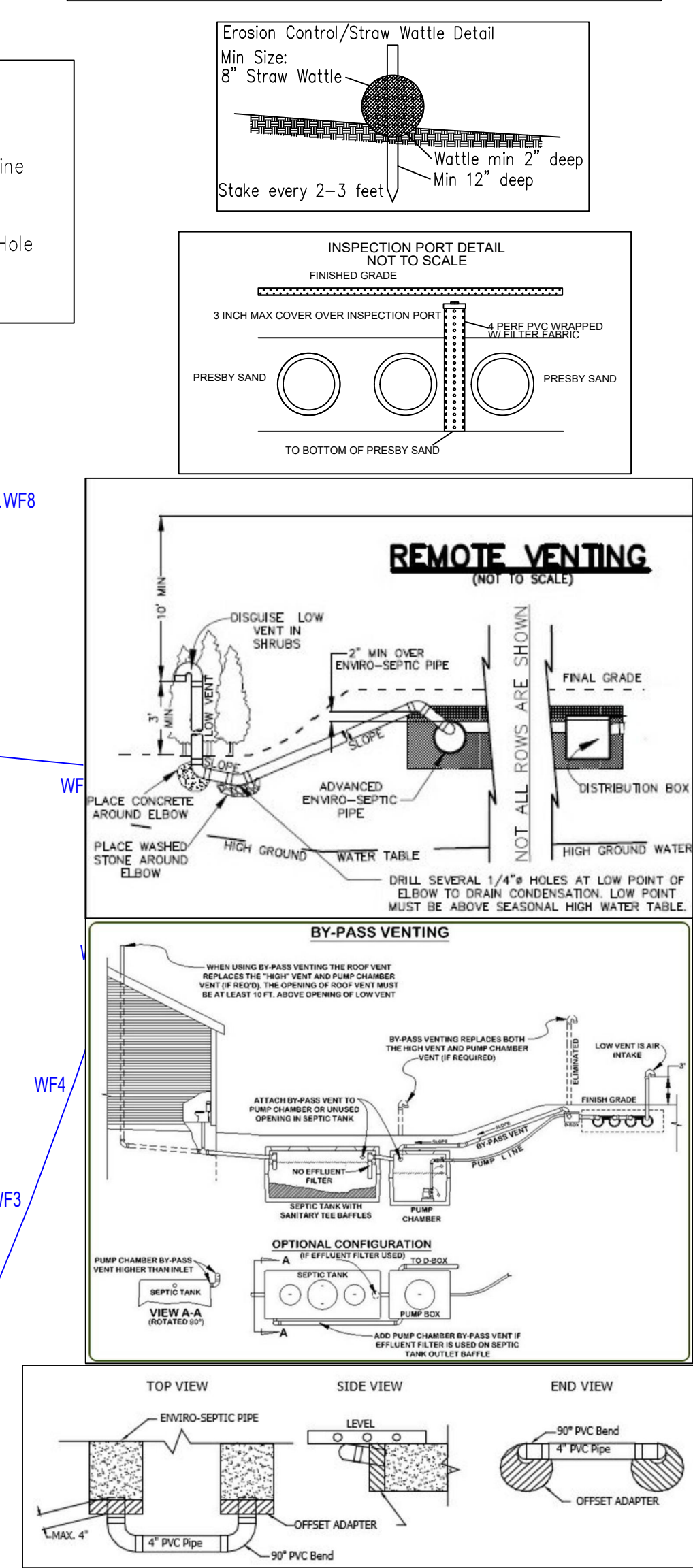


Figure 1 displays three diagrams illustrating the vertical distribution of soil temperature (DTH) and soil moisture (SL) for three different soil types: DTH-1, DTH-2, and DTH-3. Each diagram shows a vertical profile with depth markers and corresponding values for SL and DTH.

**DTH-1:**

- 0" (97.33): A-SL-10YR4/2
- 8": B-SL-10YR6/4
- 22": C-SL-2.5Y6/3
- 84": EHGW @ 26" (95.16)  
Weep/Stand @ N/A

**DTH-2:**

- 0" (97.80): A-SL-10YR4/2
- 7": B-SL-10YR6/4
- 23": C-LS-2.5Y7/3
- 112": EHGW @ 30" (95.30)  
Weep/Stand @ 112"/112"

**DTH-3:**

- 0" (96.75): A-SL-10YR4/2
- 7": B-SL-10YR6/4
- 20": C-LS-2.5Y7/3
- 116": EHGW @ 26" (94.58)  
Weep/Stand @ 90"/116"

|                   |       |
|-------------------|-------|
| Percolation Tests |       |
|                   | PT-A  |
| Depth             | 56"   |
| Rate              | 3 mpi |

Date of soil evaluation: 7/23/2024  
Soil Evaluator: Evan Carloni (#13784)  
Approving Authority Witness: Jim Garreff

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation are accurate and in accordance with 310 CMR 15.100 through 15.107.

| Local Upgrade Approval (LUA) Requested |   |
|--|---|
| Reg                                    | Request   |
| 310 CMR 15.405 (1) (h)                 | Reduction setback from bottom of leach field to estimated high groundwater from 4 foot separation to 2 foot separation via MADEP remedial use approval letter for Presby Enviro Septic. |

/A Info:  
The Presby Enviro-Septic is proposed under remedial use approval. This design utilizes a 2 foot offset to the estimated high groundwater table from the bottom of the SAS as allowed by the approval letter. This design conforms to the approval and company design guidance.  
Transmittal number: 21-CLM-000073-APP  
Date of Issuance: Revised September 26, 2013, Modified October 30, 2019,  
Modified March 15, 2022

System must be installed and maintained as per the "Standard Conditions for Alternative Soil Absorption Systems with General Use Certification and/or Remedial Use" dated "Revised: March 5, 2018".

## Sewage Disposal System Plan

34 Fletcher Lane  
Littleton, MA 01460  
3 bedroom

**Innovative Septic Design, Inc**  
51 Carter Street, Berlin, MA 01503  
Phone: (978) 621-8278  
Email: [isdinc15@gmail.com](mailto:isdinc15@gmail.com)

Assessors Map: 11-16 Lot: 80

Lot Area (assessor records): 14 acres

Note: This plan and certification are for the design and construction of the sewage disposal system ONLY. This plan shall not be used for determination of property lines, locating of structures or any other use that would require a Professional Land Surveyors certification.

I HEREBY CERTIFY THAT THIS PLAN MEETS ALL REQUIREMENTS OF 310 CMR 15.000, TITLE 5 OF THE STATE ENVIRONMENTAL CODE AND ALL APPLICABLE REGULATIONS OF THE TOWN OF Littleton BOARD OF HEALTH.

