



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.

Schedule of Elevations		
Elevation	Proposed	As-Built
Invert @ Building:	102.35	
Tank Inlet:	98.25	
Tank Outlet:	98.00	
Pump Chamber Inlet:	97.00	
Pump Chamber Outlet:	97.25 (flip PC)	
D-Box Inlet:	99.77	
D-Box Outlet:	99.60	

	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

Construction Notes:

1. Contractor shall notify Dig Safe (888) 344-7233 at least 72 hours prior to construction or abandonment of existing system. It shall be the responsibility of the contractor to locate any utilities not delineated by Dig Safe.
2. Prior to the commencement of construction, the System Installer must certify in writing to the Designer, the LAA, and the System Owner that s/he is a locally approved System Installer and, if required by the Company, is certified by or has received appropriate training by the Company.
3. All disturbed surfaces shall be restored with 4" of loam and seed.
4. All connections shall be glued.
5. Contractor shall notify designer and Approving Authority when conditions are found during construction which would alter the approved septic design plan.
6. Where portions of the existing building sewer are to remain, building sewer shall be inspected for slope, bellies, turns and anything which may prevent it from functioning as required by Title 5.
7. Notify Littleton Conservation Office at least 72 hours prior to construction for inspection of erosion control barrier.

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 Production: 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 beyonds 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:

1. 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.
2. This plan is for the design and construction of the sewage disposal facility only.
3. 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 system was designed in accordance with Title 5 and the local BOH regulations.
9. Boundary line information for this property stated on plan entitled "Plan of Land Littleton, MASS" Dated "July 23, 1971" by Clyds R. Wheeler Book 12080 , Page 304

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 ; I/WPA - no
Flood Plain: no

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.

1/A Info:

The Presby Enviro-Septic is proposed under remedial use approval. 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

Assessors Map: 11-16 Lot: 80

SAS Plan #: 07232501 Plan View Scale: 1" = 20'

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.

Updates	
Date	Update
7/31/2025	Proposed Plan
8/21/2025	Rotate DTH-1 note verbiage & add LUA
8/28/2025	BOH Comment: Booted tanks

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.

