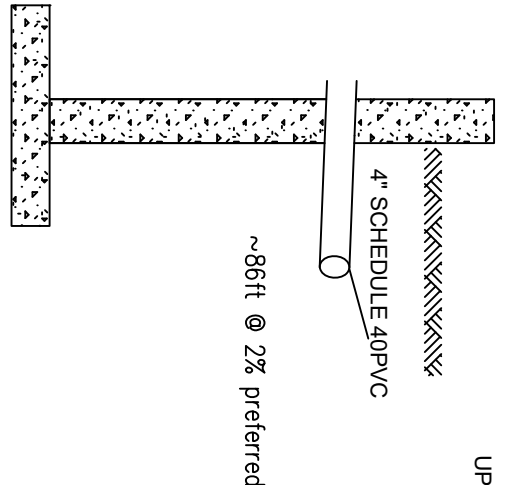
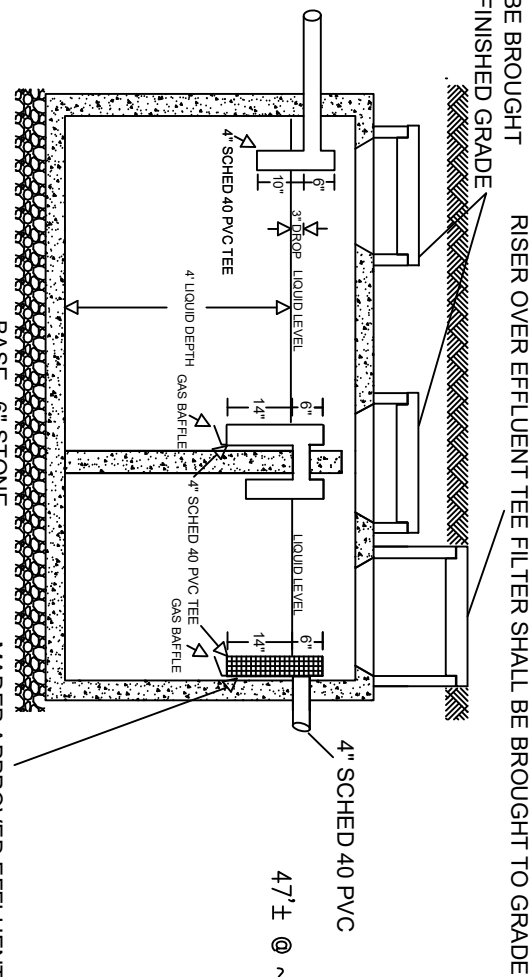


Profile (not to scale):



Septic tank: 1500 gallon dual compartment



Building Sewer Notes:

- 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. Existing building sewer to remain must be of adequate materials per Title 5.

Tank Notes:

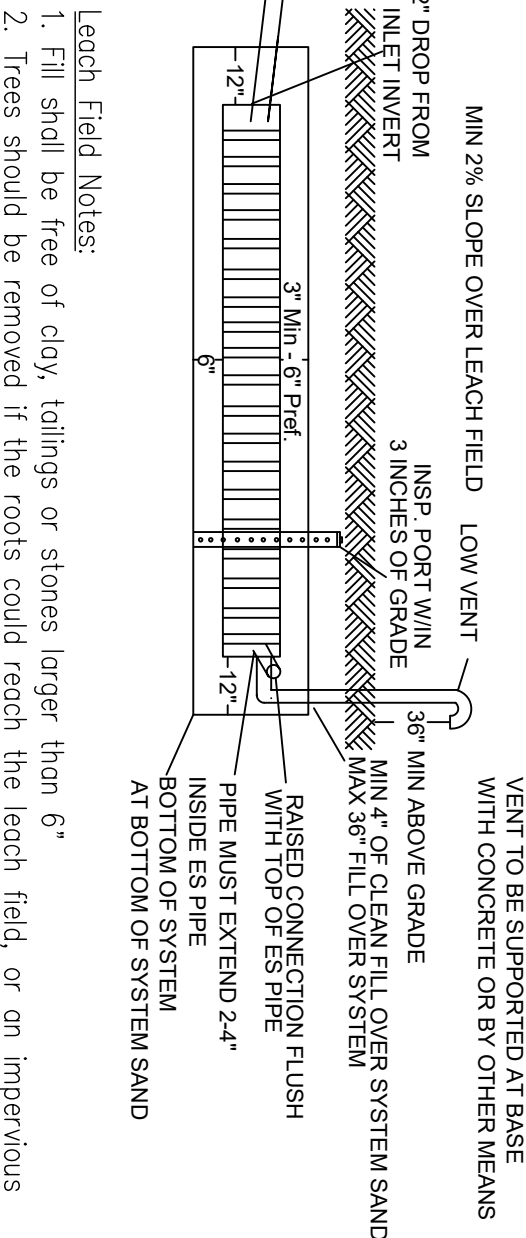
- Manholes shall be minimum 24" diameter, medium duty or cast iron frame and cover, and any manholes brought to finished grade shall be secured to prevent unauthorized access.
- Inlet and outlet tees to rectangular tanks shall be set in the end walls or into a side wall within 12 inches of the end wall.

Distribution (Dbox) Box Notes:

- Dbox must have a water tight cover.

Leach Field Notes:

- Fill shall be free of clay, talings or stones larger than 6".
- Trees should be removed if the roots could reach the leach field, or an impermeous barrier should be placed in between field and tree.



- System sand - 35% or less of the total sand may be gravel, 40% to 50% of the total sand is to be coarse to very coarse sand. No gravel shall exceed 1/4" in diameter. No gravel shall pass a #10 sieve. No coarse sand shall pass a #35 sieve. No more than 2% of the total sand may pass through a #200 sieve. ASTM C-33 (Concrete sand) is an alternate acceptable materials for use as system sand.
- Title 5 surrounding sand - Shall meet requirements of 310 CMR 15.255(3). Sand shall be comprised of clean granular sand, free from organic matter and deleterious substances and shall not contain Remediation Waste. Fill shall not contain any material larger than 2 inches. Up to 45% by weight of fill material may be retained on the #4 sieve. Sieve analysis must comply with the following chart:

SIEVE SIZE:	PERCENTAGE PASSED	% THAT MUST PASS SIEVE
# 4	100%	100%
# 10	100%	100%
# 20	100%	100%
# 30	100%	100%
# 40	100%	100%
# 60	100%	100%
# 80	100%	100%
# 100	100%	100%
# 150	100%	100%
# 200	100%	100%

Locus No Scale



Soil Data

DT1-1A	DT1-2A	DT1-3A
0" (91.00) A-S-10M4/4 B-S-10M6/6 24" C-1S-2.5/5/4	0" (96.00) Fill 24" B-S-10M6/6 36" C-1S-2.5/5/4	0" (91.50) A-S-10M4/4 C1-C5M6-10M5/4 30" C2-S-2.5/5/4
72" H2W @ 24" (95.00) Revised @ 72"	86" H2W @ 36" (93.00) Revised @ 86"	84" H2W @ 24" (91.50) Revised @ 84"

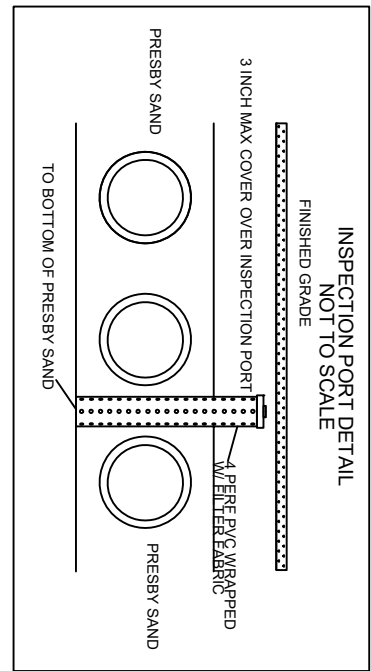
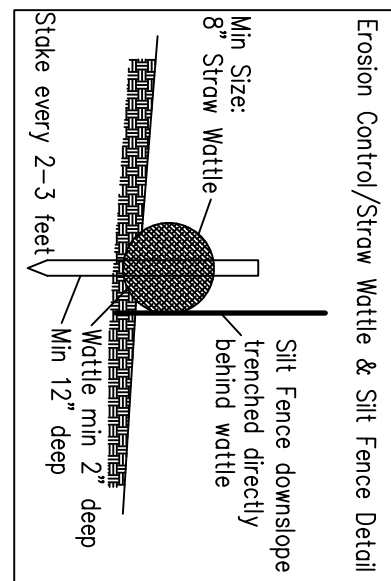
Date of soil evaluation: 10/6/2023

Soil Evaluator: Evan Corlotti (#13784)

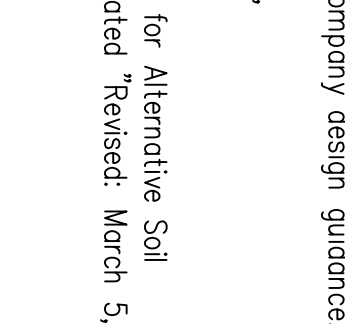
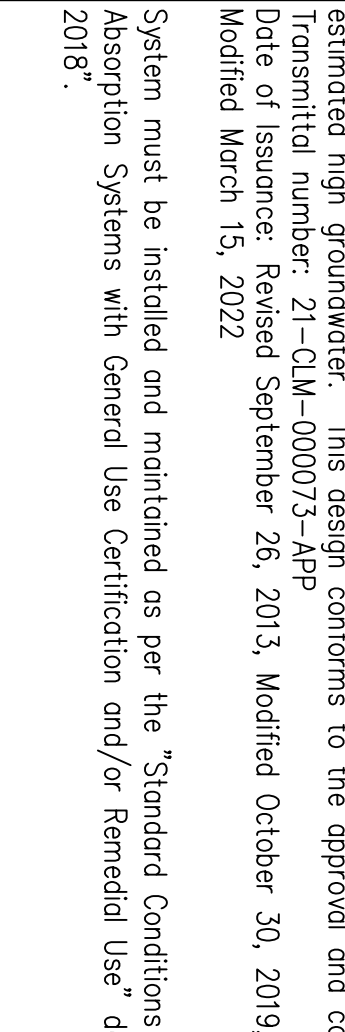
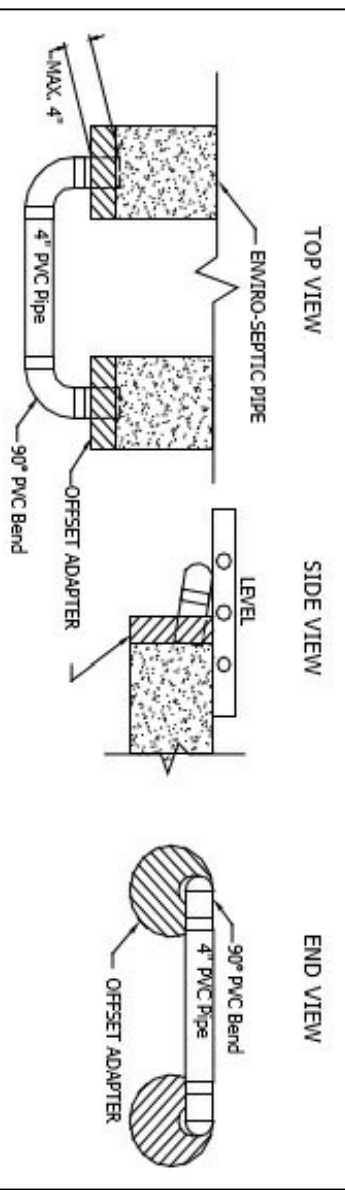
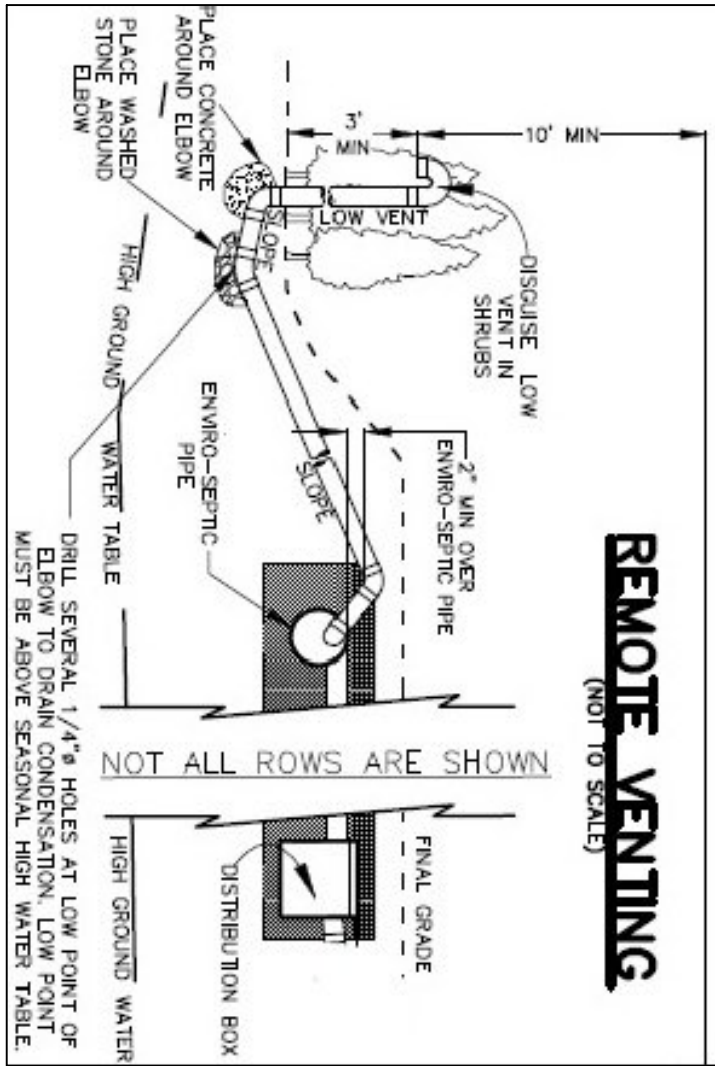
Approving Authority Witness: Kalene Gerdtson

I, Evan Corlotti, am hereby attesting that the Standard of Professional Practice has been followed and that the above analysis has been performed by me consistent with the required standards of the State of Massachusetts. I am a duly Licensed Professional Engineer in the State of Massachusetts and my license number is 15107.

Percolation Tests
Soil to wet to an percolation test
Soil sample taken to lab for sieve analysis.



REMOTE VENTING



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

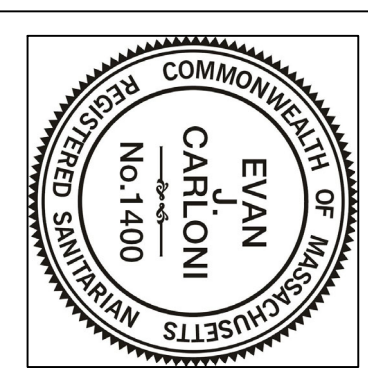
167 Harvard Road  
Stow, MA 01775  
Existing 3 bedroom

Innovative Septic Design, Inc.  
51 Carter Street Berlin, MA 01533  
Phone: (978) 621-8278  
Email: info@isdcn.com

Assessors Map: R-4 Lot 45 Lot Area: 3.08 acres SAS Plan #: 10062301 Plan View Scale: 1" = 20'

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.

Date	Updates
2/2/2024	Proposed Plan
3/12/2024	NAB Comments
3/14/2024	Add DTH & Barrier



Elevation	Proposed	As-Built
Invert @ Building (existing below foundation)	-108	
Tank Inlet	100.65	
Tank Outlet	100.44	
D-Box Inlet	99.50	
D-Box Outlet	99.73	

Slope 7.8% = 3 System Sand Extension NOT Required

Line	4" Inlet	Prebly Invert	Bottom Sys. Sand	Min. FS
Line 1	99.56	98.98	98.48	100.56
Line 2	99.23	98.65	98.15	100.23
Line 3	98.9	98.32	97.82	99.9
Line 4	98.57	97.99	97.49	99.57
Line 5	98.24	97.66	97.16	99.24
Line 6	97.91	97.33	96.83	98.91
Line 7	97.58	97	96.5	98.58

Design Criteria:

- Contractor shall notify Dig Site (888) 344-7231 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 Site.
- Prior to the commencement of construction, the System Installer must certify in writing to the Designer, the LIA, 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.
- All disturbed surfaces shall be restored with 4" of loam and seed.
- Contractor shall notify designer and Approving Authority when conditions are found during construction which would alter the approved septic design plan.
- 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.
- All components of this system shall be marked with magnetic tape or comparable in order to locate components once buried.

Plan Information:

- This plan was created for the purposes of showing a proposed sewage disposal system only and is NOT intended to be used for any other use. If legal boundaries 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.
- Water softener/frost runoff/pump pump discharge shall not be tied into proposed septic system.
- This plan may not be revised without the consent of the Designer and without Local Board of Health approval.
- All known wells within 150 feet of this system have been identified.
- System shall be pumped per 15.351.
- The designers only warranty is that the system was designed in accordance with Title 5 and the local BOH regulations.

Lot Information:

- Water Source: Private well
- Comptage Order: This septic system has NOT been designed for a garbage grinder. Any existing grinders shall be removed.
- Nitrogen Sensitive Areas: Zone II no to WPA - no
- Flood Plain: This property is not located in a flood plain.

167 Harvard Road  
Existing 3 Bedroom

167 Harvard Road  
Existing 3 Bedroom

167 Harvard Road  
Existing 3 Bedroom