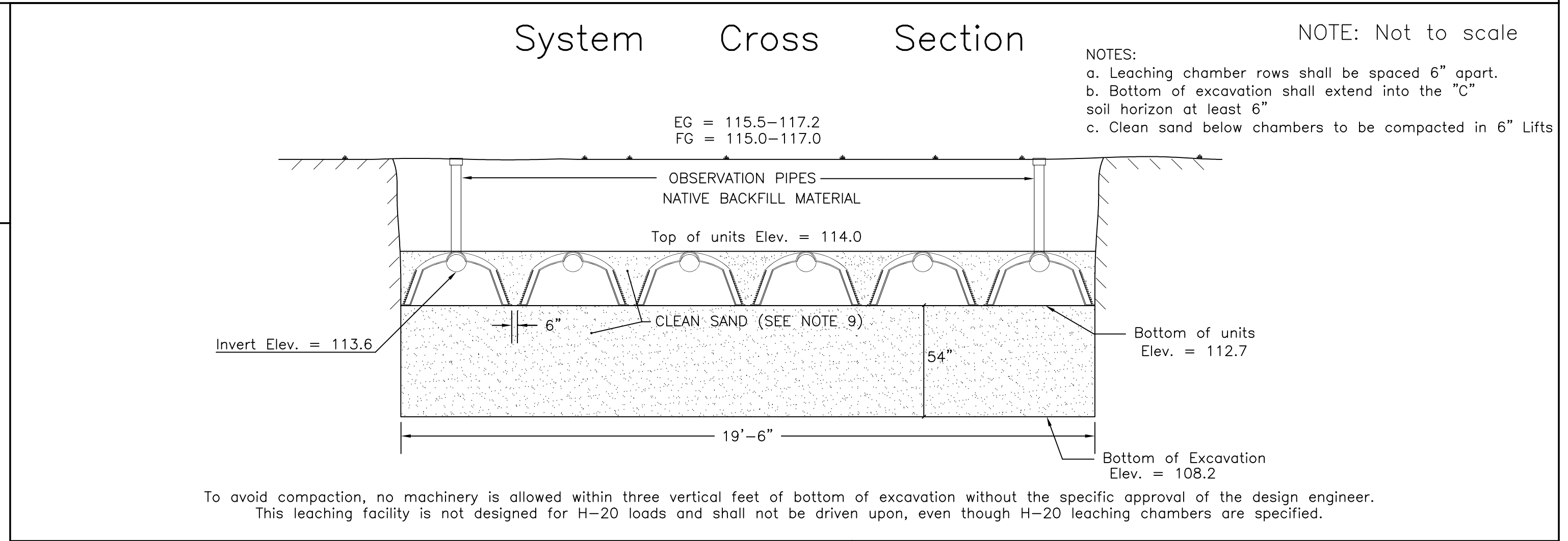
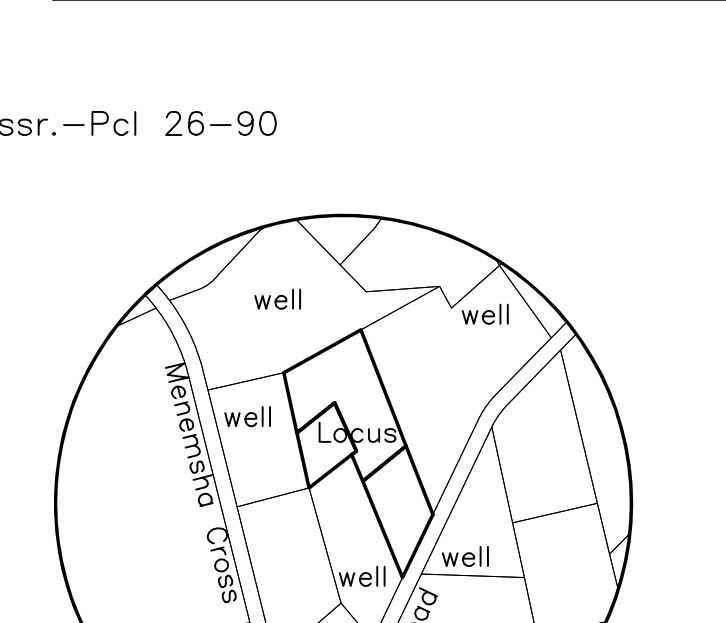


ELEVATION TABLE

	Inlet Invert Elev.	Outlet Invert Elev.
Tank #1	109.2	109.0
Tank #2	107.8	107.6
Tank #3	110.4	110.2



- ### Notes
- This plan is to be used only for the approval and installation of a sewage disposal system and is not to be used for any other purpose.
 - All construction and components shall conform to Massachusetts State Environmental Code TITLE V and Local Board of Health Requirements.
 - This design does not warrant the location of underground pipes, wires, utilities or other underground structures. The installer shall be responsible for locating and relocating these objects as necessary.
 - No garbage grinder is allowed with this system.
 - Any portion of this system subject to vehicular traffic shall be capable of H-20 loading.
 - An observation pipe shall be placed as shown and capped at grade so as to allow monitoring of liquid level in the leaching system. Place re-rod flush at each to aid in relocating with metal detector.
 - All access covers are to weigh at least 150 lbs. or screwed down.
 - Leaching Chambers shall consist of Infiltrator high capacity, ADS high capacity biodiffuser or an approved equivalent.
 - Any clean sand fill required by this design is to have less than 4% passing the No. 100 sieve.
 - No wells could be found within 150' of the proposed leaching facility, and no leaching facilities could be found within 150' of the proposed well.
 - The engineer is to inspect and approve the installation and placement of all septic components before final backfilling.
 - A letter certifying satisfactory construction of this system is to be provided to the owner and the Board of Health by the Engineer.
 - MicroFAST tank installation shall conform to all construction requirements and specification of Biomicrobics, Inc. Installation contractor is responsible for obtaining and reviewing all pertinent installation manuals & instructions from Biomicrobics, Inc.

Design Criteria

Design Hydraulic Loading:

6 Bedrooms x 110 GPD/Bedroom	= 660 GPD (Residence #1)
6 Bedrooms x 110 GPD/Bedroom	= 660 GPD (Residence #2)
558 SF Office x 75 GPD/1K SF	= 42 GPD
100 Seat Theatre x 3 GPD/Seat	= 300 GPD (Studio & Theatre)
716 SF Office x 75 GPD/1K SF	= 54 GPD
22 Person Rehearsal Studio x 3 GPD	= 66 GPD
Total	= 1782 GPD

Septic Tank Capacity:
Required: 660 GPD x 200% = 1320 Gal. minimum (Residence #1)
660 GPD x 200% = 1320 Gal. minimum (Residence #2)
462 GPD x 200% = 924Gal. minimum (Studio & Theatre)
Septic tanks provided = 1500 Gal. (Three)

Leaching Capacity Provided:
H-20 High Capacity Leaching Chamber Bed
84 Leaching Chamber Units
84 Units x 6.25 linear ft./unit x 4.72 sq.ft./linear ft. = 2478 sq.ft.
2478 sq.ft. x 0.74 GPD/sq.ft. = 1833 GPD

* Per modified certification for general use High capacity leaching chamber units are allowed 4.7 sq.ft. leaching area per lineal ft. in bed configuration.

Proposed Septic System on Land in Chilmark, Mass.

Designed for: THE YARD

Street Address: 1, 6 & 7 THE YARD

Assessor No.: 26-91, 92, 95

Lot Area: ±2.49 Acres

Designed By: Cody Coutinho

Checked By: R.G.S.

Date: January 8, 2018

Revised: October 13, 2022 - Building Dimensions and Locations

October 14, 2022

SOIL DATA

Soil evaluator: Reid G. Silva, P.E.
Witnessed By: Marina Lent

Deep Observation Hole 1			Deep Observation Hole 2		
Depth	Horizon	Texture	Depth	Horizon	Texture
Date: October 5, 2018			Date: October 5, 2018		
Surface elevation = 117.0			Surface elevation = 114.5		
0"-10"	A	Sandy loam	0"-10"	A	Sandy loam
10"-36"	B	Loamy sand	10"-38"	B	Loamy sand
36"-60"	C1	Loamy sand dense	38"-58"	C1	Loamy sand dense
60"-80"	C2	fine Sand (white)	58"-80"	C2	fine Sand (white)
80"-120"	C3	coarse Sand (white)	80"-120"	C3	coarse Sand (white)

Perc. rate < 5 mpi. @ 80"
No groundwater found at Elev. = 107.0

Perc. rate < 5 mpi. @ 80"
No groundwater found at Elev. = 104.5

