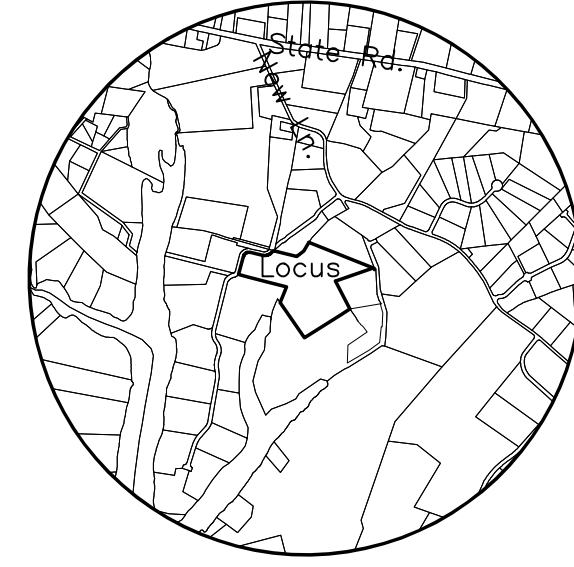
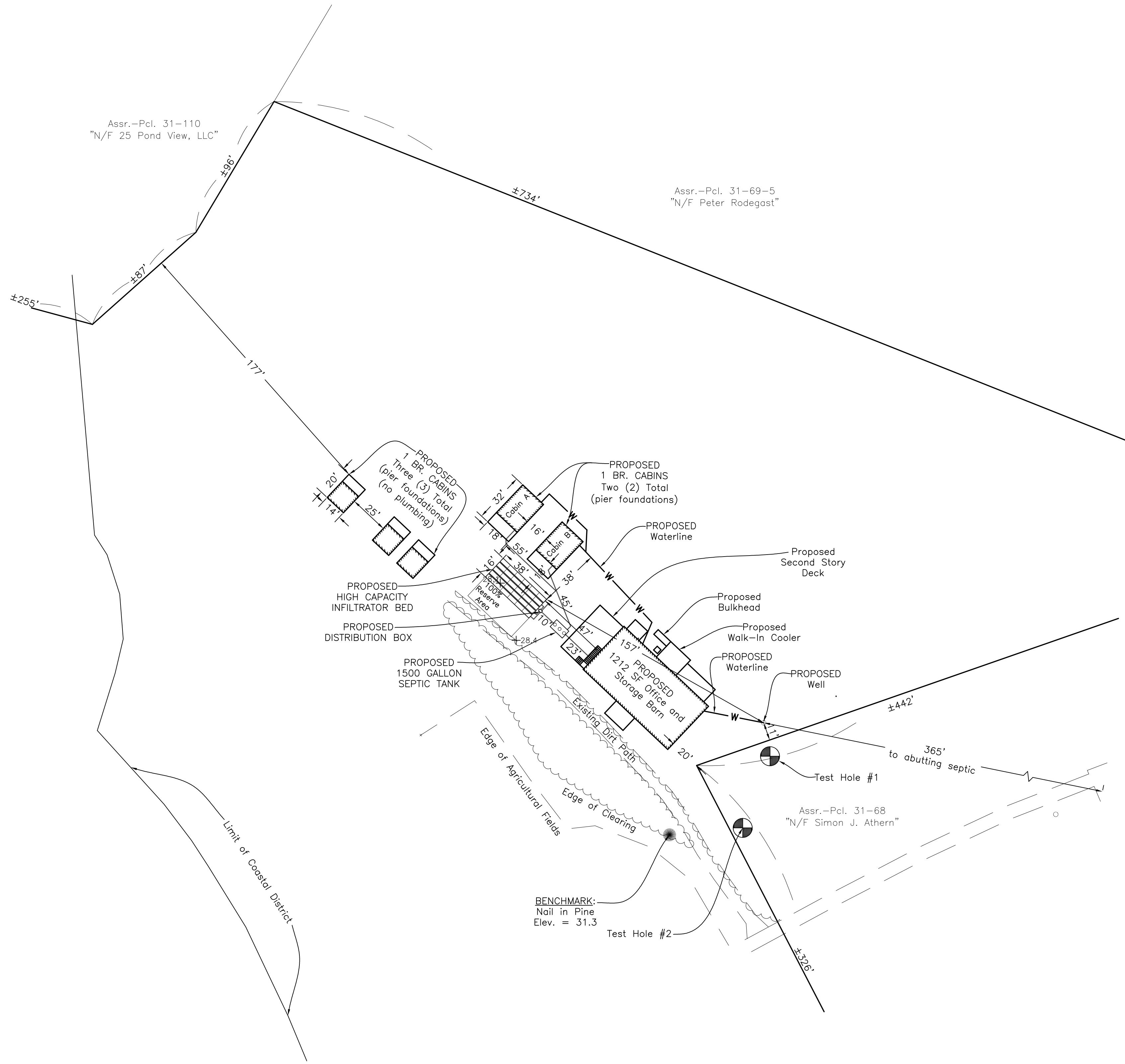
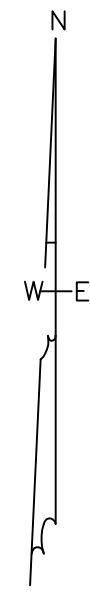


# Plan

Scale: 1 in. = 40 ft.  
Datum: ±U.S.G.S.



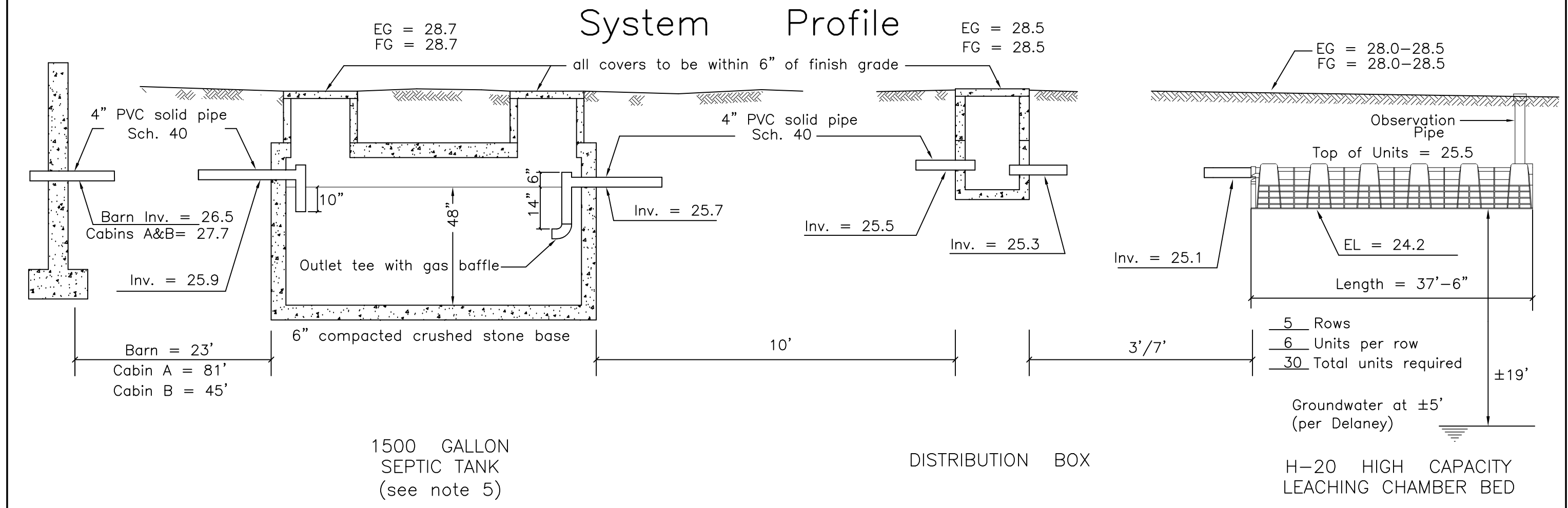
LOCUS MAP  
Scale: 1" = 2000'



### LEGEND

- .....PROPOSED CONTOUR
- .....EXISTING CONTOUR
- +100.7.....EXISTING SPOT ELEVATION
- W —.....WATER SERVICE LINE
- .....TEST HOLE LOCATION

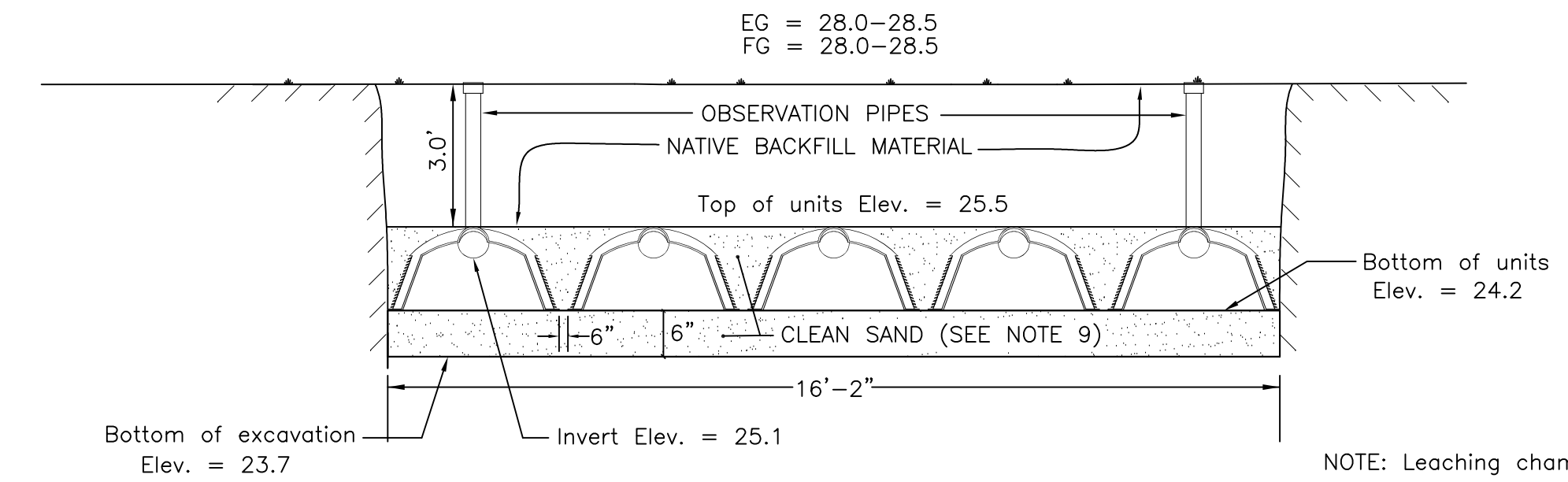
# System Profile



# System Cross Section

NOTE: Not to scale

## CROSS-SECTION DETAIL OF LEACHING FACILITY



To avoid compaction, no machinery is allowed within three vertical feet of bottom of excavation without the specific approval of the design engineer. This leaching facility is not designed for H-20 loads and shall not be driven upon, even though H-20 leaching chambers are specified.

## Notes

1. 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.
2. All construction and components shall conform to Massachusetts State Environmental Code TITLE V and Local Board of Health Requirements.
3. 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.
4. No garbage grinder is allowed with this system.
5. Any portion of this system subject to vehicular traffic shall be capable of H-20 loading.
6. 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.
7. All access covers are to weigh at least 150 lbs. or screwed down.
8. Leaching Chambers shall consist of Infiltrator high capacity, ADS high capacity biodiffuser or an approved equivalent.
9. Any clean sand fill required by this design is to have less than 4% passing the No. 100 sieve.
10. 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.
11. The engineer is to observe soils within the leaching area prior to the installation of septic components.

## Design Criteria

Design Hydraulic Loading (Office Space):  
1212 S.F. x 75 GPD/1000 S.F. = 91 GPD  
5 bedrooms (cabins) x 110 GPD/Bedroom = 550 GPD  
Total Hydraulic Loading = 641 GPD

Septic tank capacity:  
Required: 641 GPD x 200% = 1282 Gal. minimum  
Septic tank provided = 1500 Gallon

Leaching Capacity Provided:  
H-20 High Capacity Leaching Chamber Bed  
30 Leaching Chamber Units  
30 Units x 6.25 linear ft./unit x 4.72 sq.ft./linear ft. = 885 sq.ft.  
885 sq.ft. x 0.74 GPD/sq.ft. = 655 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 West Tisbury, MASS.

Designed for: Simon Athearn  
Street Address: Road To Great Neck  
Assessor No.: 31-68.3  
Lot Area: ±15.1 acres  
Designed By: Meegan Lancaster  
Checked By: R.G.S.  
Date: August 24, 2022  
Revised: January 18, 2023 - add cabins  
March 6, 2023 - relocate cabins and field

Soil evaluator: Reid G. Silva, P.E.  
Witnessed By: Omar Johnson

### SOIL DATA

Depth	Horizon	Texture	Depth	Horizon	Texture
0"-10"	A	Sandy loam	0"-10"	A	Sandy loam
10"-34"	B	Loamy sand	10"-34"	B	Loamy sand
34"-120"	C1	Medium Coarse Sand	34"-120"	C1	Medium Coarse Sand
Perc. rate < 5 mpi. @34"			Perc. rate < 5 mpi. @34"		
No groundwater found at Elev. = 21.1			No groundwater found at Elev. = 21.2		

Estimated depth to groundwater = 26'  
(as per Groundwater Hydrology of Martha's Vineyard, Mass., Delaney, 1980)

**VINEYARD  
LAND SURVEYING  
& ENGINEERING**

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Job No. 1826-1