



- ### 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.

Design Criteria

Design Hydraulic Loading:
6 Bedrooms x 110 GPD/Bedroom = 660 GPD

Septic tank capacity:
Required: 660 GPD x 200% = 1320 Gal. minimum
Septic tank provided = 1500 Gal.

Leaching Capacity Provided:
H-20 High Capacity Leaching Chamber Bed
32 Leaching Chamber Units
32 Units x 6.25 linear ft./unit x 4.72 sq.ft./linear ft. = 944 sq.ft.
944 sq.ft. x 0.74 GPD/sq.ft. = 698 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.

SOIL DATA

Soil evaluator: Reid G. Silva, P.E.
Witnessed By: John Powers

Deep Observation Hole 1.	Deep Observation Hole 2.
Date: September 22, 2011	Date: September 22, 2011
Surface elevation = 30.9	Surface elevation = 30.4
Depth Horizon Texture	Depth Horizon Texture
0"-12" A Sandy loam	0"-12" A Sandy loam
12"-40" B Loamy sand	12"-40" B Loamy sand
40"-126" C Medium Coarse Sand	40"-126" C Medium Coarse Sand
Perc. rate < 5 mpi. @ 40"	Perc. rate < 5 mpi. @ 40"
No groundwater found at Elev. = 20.5	No groundwater found at Elev. = 19.9

Proposed Septic System on Land in West Tisbury, MASS.

Designed for: Kevin Cusack

Street Address: 22 Scotchmans Lane

Assessor No.: 25-9

Lot Area: ±2.87 Acres

Designed By: Reid G. Silva, P.E.

Checked By: _____

Date: March 3, 2020

Revised: _____

Estimated depth to groundwater = ±16' below Test Hole #1 Elevation 15 (as per Groundwater Hydrology of Martha's Vineyard, Mass., Delaney, 1980)

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Job No. 2089