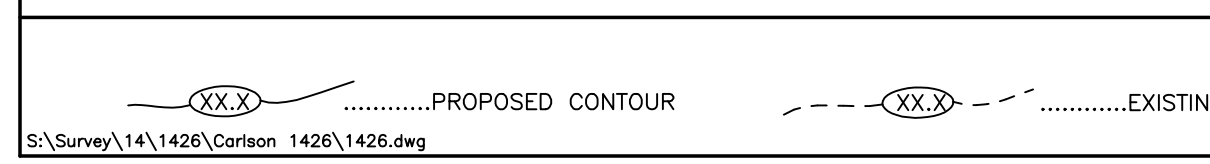


**PUMP NOTES**

1. An alarm system shall be installed on a separate electrical circuit.
2. The pump shall be capable of pumping 10 gallons per minute at a head of 50 feet.
3. The pump shall be installed directly below the access opening and connected with unions so as to be easily removed without emptying the tank.
4. The force main shall be insulated as shown or buried a minimum of 4 ft. below grade.



- 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 inspect and approve the installation and placement of all septic components before final backfilling.
  12. A letter certifying satisfactory construction of this system is to be provided to the owner and the Board of Health by the Engineer.
  13. The engineer to stake well.

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

Deep Observation Hole 1.  
Date: January 11, 2022  
Surface elevation = 15.1

Depth	Horizon	Texture
0"-8"	A	Sandy loam
8"-36"	B	Loamy sand
36"-144"	C	Medium coarse sand

Perc. rate < 5 mpi. @36"  
Groundwater found at Elev. = ±132" (elevation 3.1)

**Design Criteria**

Design Hydraulic Loading:  
5 Bedrooms x 110 GPD/Bedroom = 550 GPD  
3 Bedrooms x 110 GPD/Bedroom = 330 GPD  
Total = 880 GPD

Septic tank capacity:  
Required: 880 GPD x 200% = 1760 Gal. minimum  
Septic tank provided = 1500 Gal. (Two)

Leaching Capacity Provided:  
H-20 High Capacity Leaching Chamber Bed  
44 Leaching Chamber Units  
44 Units x 6.25 linear ft./unit x 4.72 sq.ft./linear ft. = 1298 sq.ft.  
1298 sq.ft. x 0.74 GPD/sq.ft. = 960 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.

Page 2 of 2  
**Proposed Septic System UPGRADE on Land in CHILMARK, MASS.**

Designed for: KIRSTIN LABBY  
Street Address: #2 BARTON WAY  
Assessor No.: 18-54  
Lot Area: ±5.0 Acres  
Designed By: Troy Silva  
Checked By: Reid G. Silva, P.E.  
Date: March 10, 2022  
Revised: 5/27/2022 - relocate tank and pump



**VINEYARD LAND SURVEYING & ENGINEERING**

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Job No. 1426