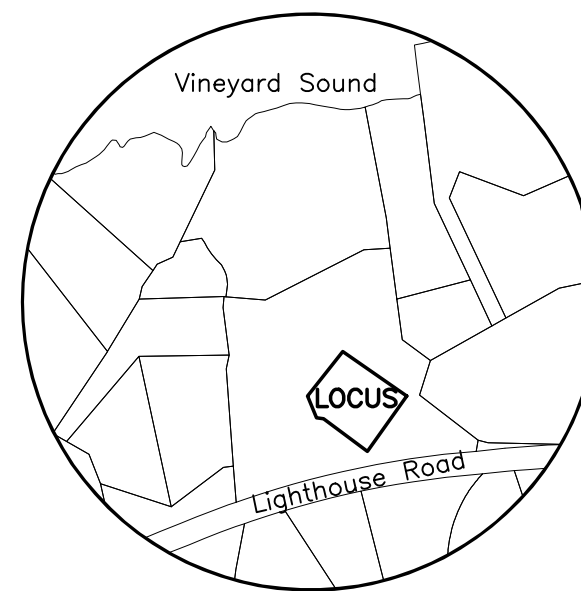
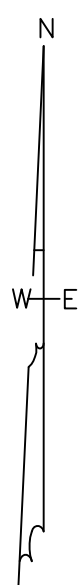


Plan

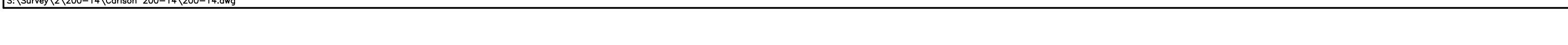
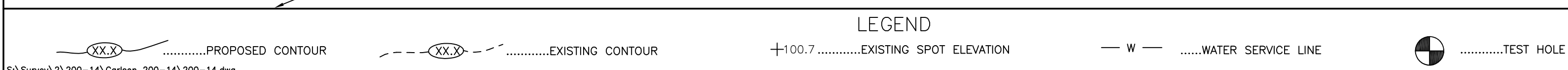
Scale: 1 in. = 20 ft.
Datum: ±U.S.G.S.



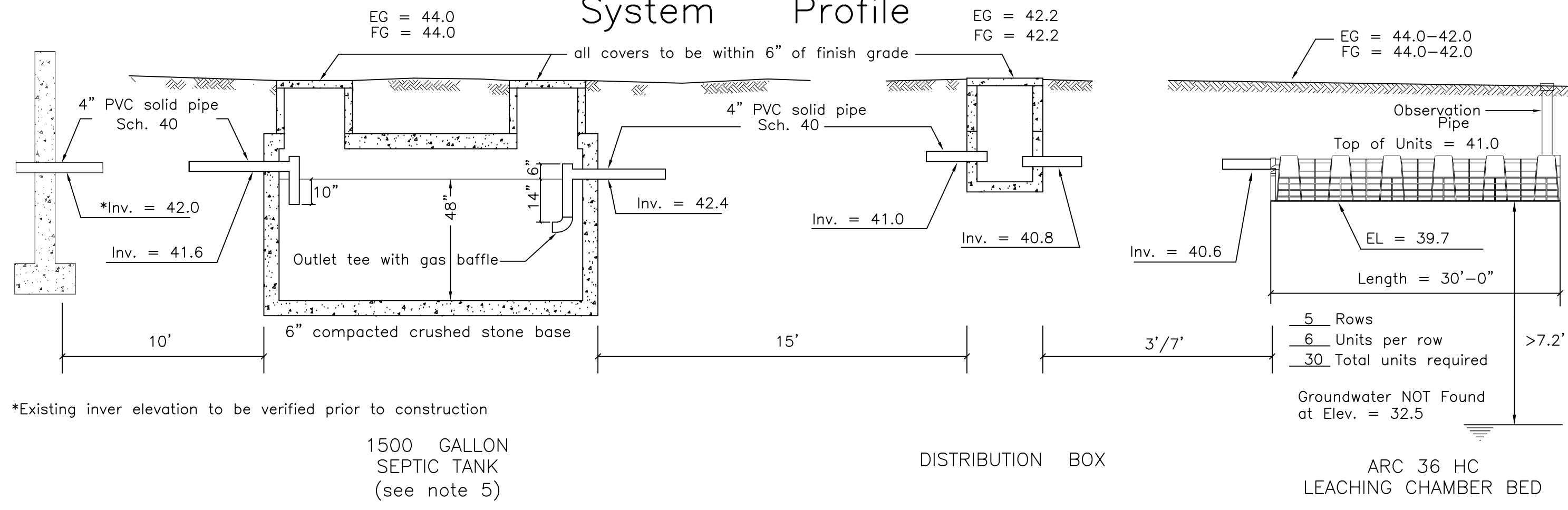
LOCUS MAP
Scale: 1" = 500'



- Aquinnah Board of Health Variances Required
1. Leaching facility to property line separation; 30' required - 17' proposed
 2. Leaching facility to wetland separation; 150' required - 135' proposed
 3. Well to property line separation; 30' required - 15' proposed



System Profile



*Existing inverter elevation to be verified prior to construction

1500 GALLON SEPTIC TANK (see note 5)

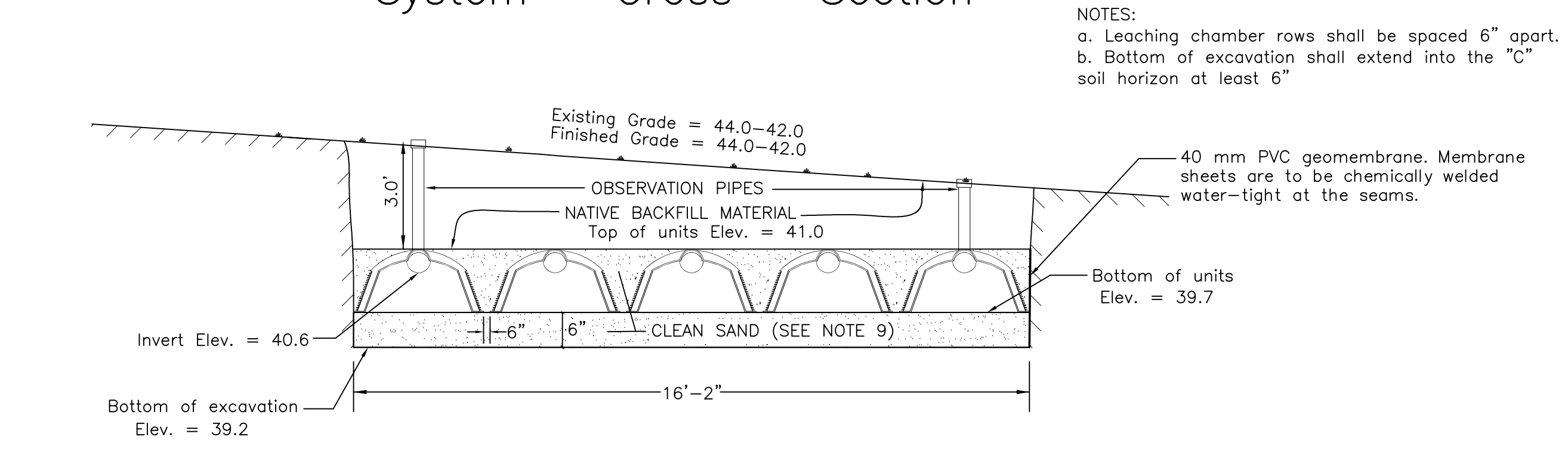
DISTRIBUTION BOX

ARC 36 HC LEACHING CHAMBER BED

Groundwater NOT Found at Elev. = 32.5

System Cross Section

NOTE: Not to scale



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:
- a. Leaching chamber rows shall be spaced 6" apart.
 - b. Bottom of excavation shall extend into the "C" soil horizon at least 6"

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 ARC 36 HC 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 unless otherwise shown.
11. The engineer (AND the local approving authority) 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.

Design Criteria

Design Hydraulic Loading:
4 Bedrooms x 110 GPD/Bedroom = 440 GPD

Septic tank capacity:
Required: 440 GPD x 200% = 880 Gal. minimum
Septic tank provided = 1500 Gal.

Leaching Capacity Provided:
H-20 High Capacity Leaching Chamber Bed
30 Leaching Chamber Units
30 Units x 5.00 linear ft./unit x 4.72 sq.ft./linear ft. = 708 sq.ft.
708 sq.ft. x 0.74 GPD/sq.ft. = 523 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 UPGRADE on Land in Aquinnah, Mass.

Designed for: Loretta Wolozin

Street Address: #122 Lighthouse Road

Assessor No.: 6-57

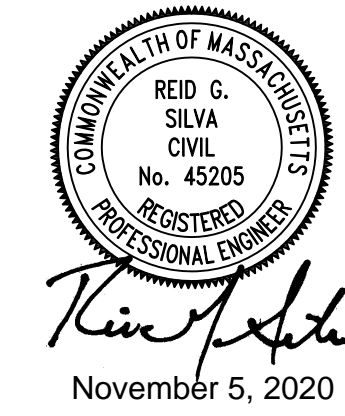
Lot Area: ±34,248 S.F.

Designed By: Cody Coutinho

Checked By: RGS

Date: November 5, 2020

Revised:



SOIL DATA																									
Soil evaluator: Reid G. Silva, P.E. Witnessed By: Sarah Saltonstall																									
Deep Observation Hole 1. Date: May 29, 2020	Deep Observation Hole 2. Date: May 29, 2020																								
Surface elevation = 43.0	Surface elevation = 43.4																								
<table border="1"> <thead> <tr> <th>Depth</th> <th>Horizon</th> <th>Texture</th> </tr> </thead> <tbody> <tr> <td>0"-10"</td> <td>A</td> <td>Sandy Loam</td> </tr> <tr> <td>10"-40"</td> <td>B</td> <td>Loamy Sand</td> </tr> <tr> <td>40"-126"</td> <td>C</td> <td>M/F Sand</td> </tr> </tbody> </table>	Depth	Horizon	Texture	0"-10"	A	Sandy Loam	10"-40"	B	Loamy Sand	40"-126"	C	M/F Sand	<table border="1"> <thead> <tr> <th>Depth</th> <th>Horizon</th> <th>Texture</th> </tr> </thead> <tbody> <tr> <td>0"-10"</td> <td>A</td> <td>Sandy Loam</td> </tr> <tr> <td>10"-32"</td> <td>B</td> <td>Loamy Sand</td> </tr> <tr> <td>32"-80"</td> <td>C</td> <td>Silt Clay Loam</td> </tr> </tbody> </table>	Depth	Horizon	Texture	0"-10"	A	Sandy Loam	10"-32"	B	Loamy Sand	32"-80"	C	Silt Clay Loam
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Perc. rate < 5 mpi. @ 40" No groundwater found at 126" (Elev. = 32.5)	No Perc. Test Completed No groundwater found at 80" (Elev. = 36.7)																								

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