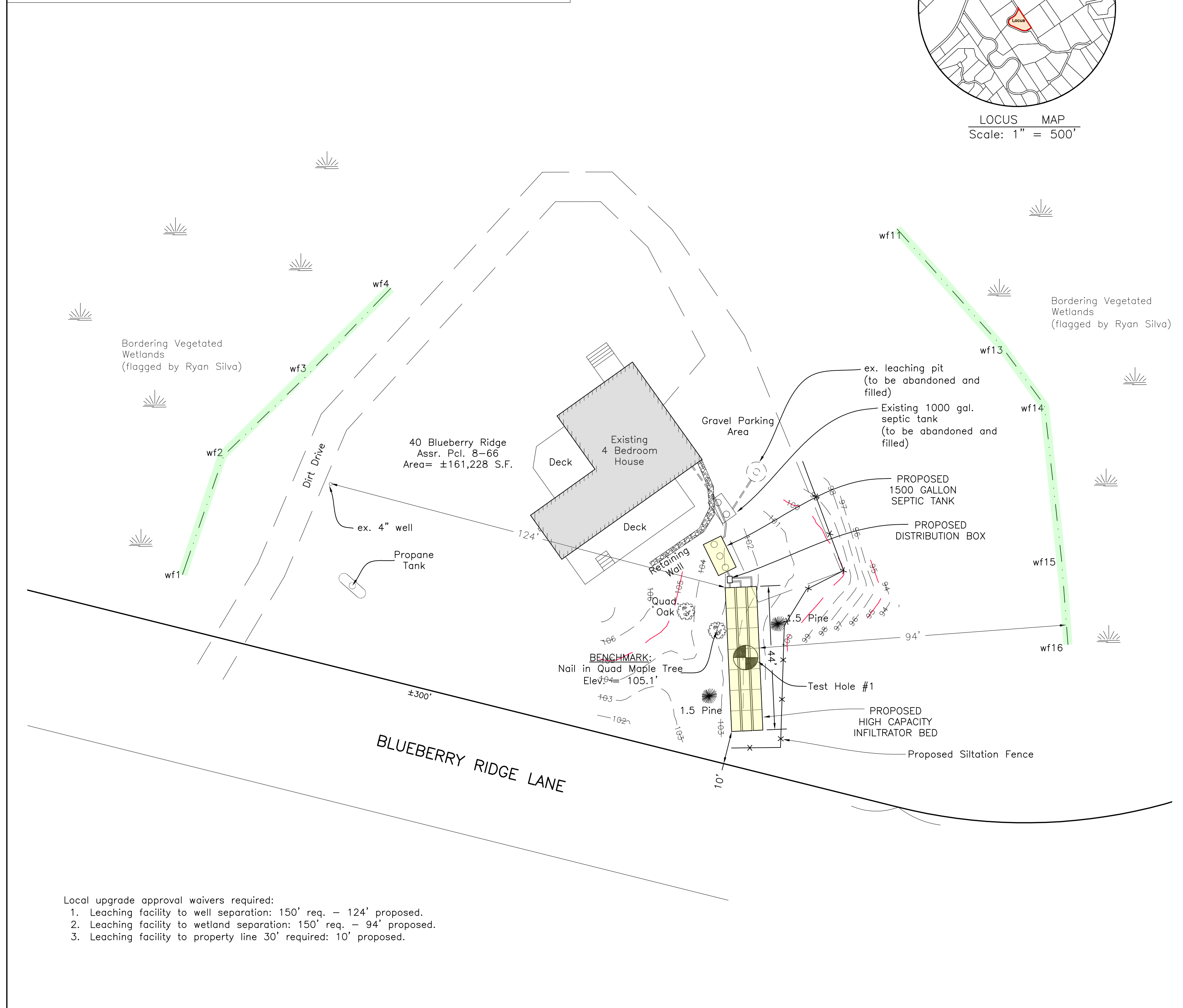
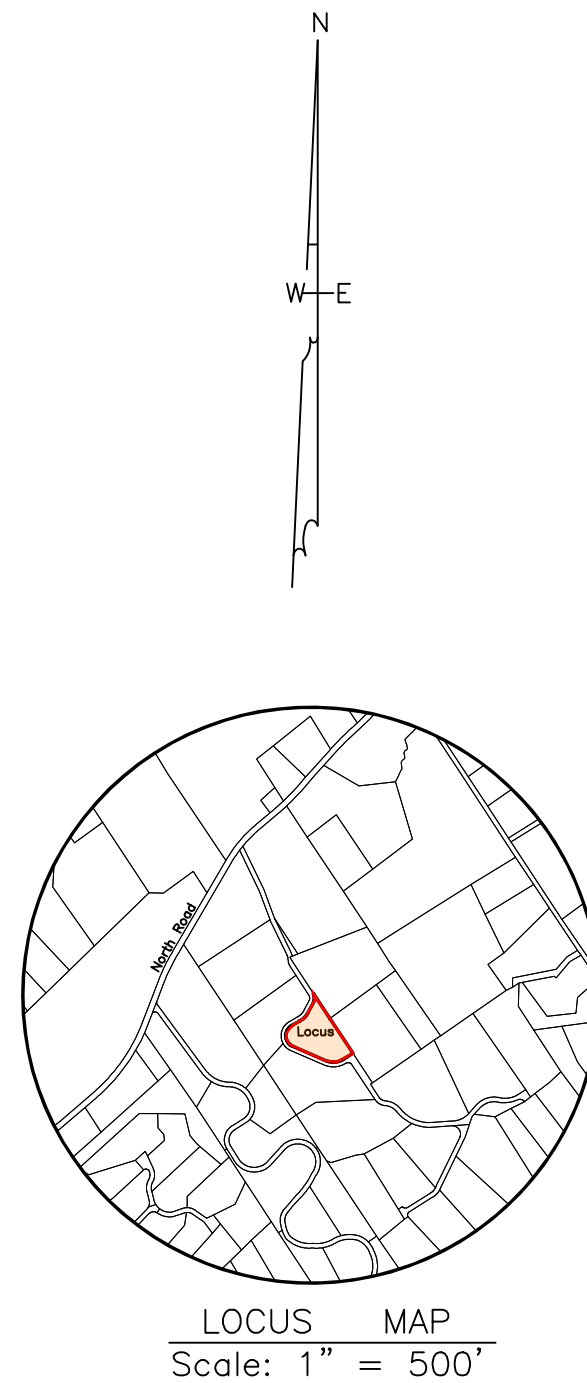
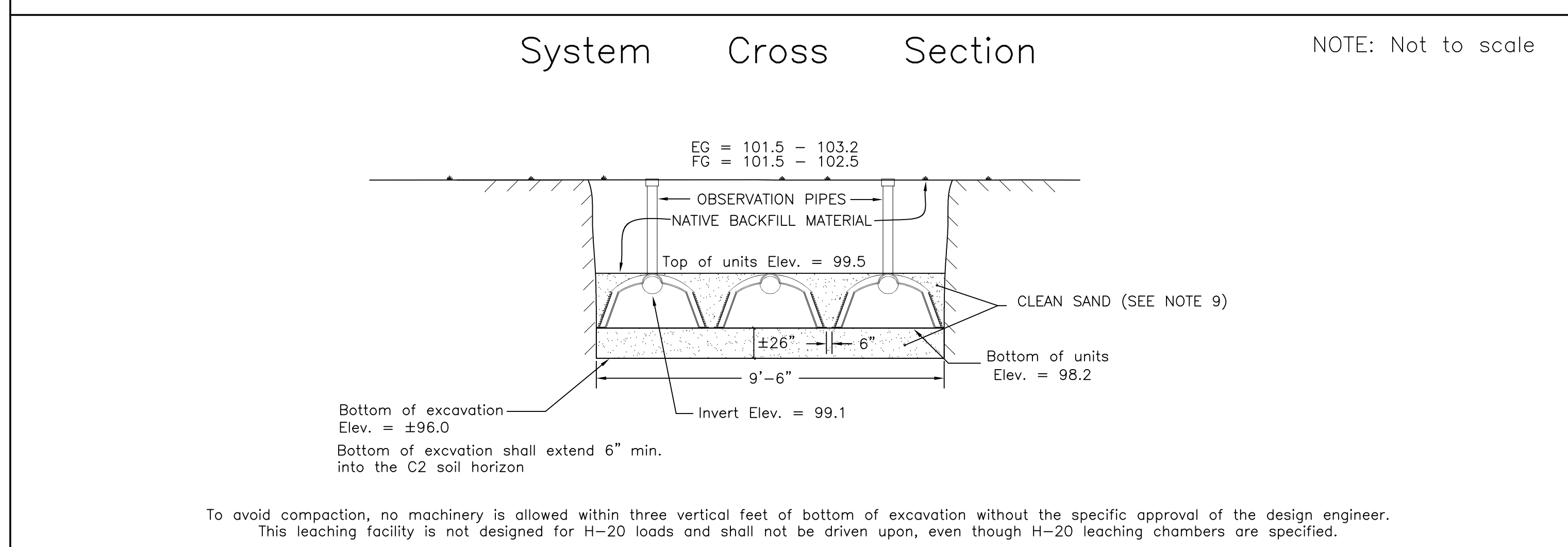
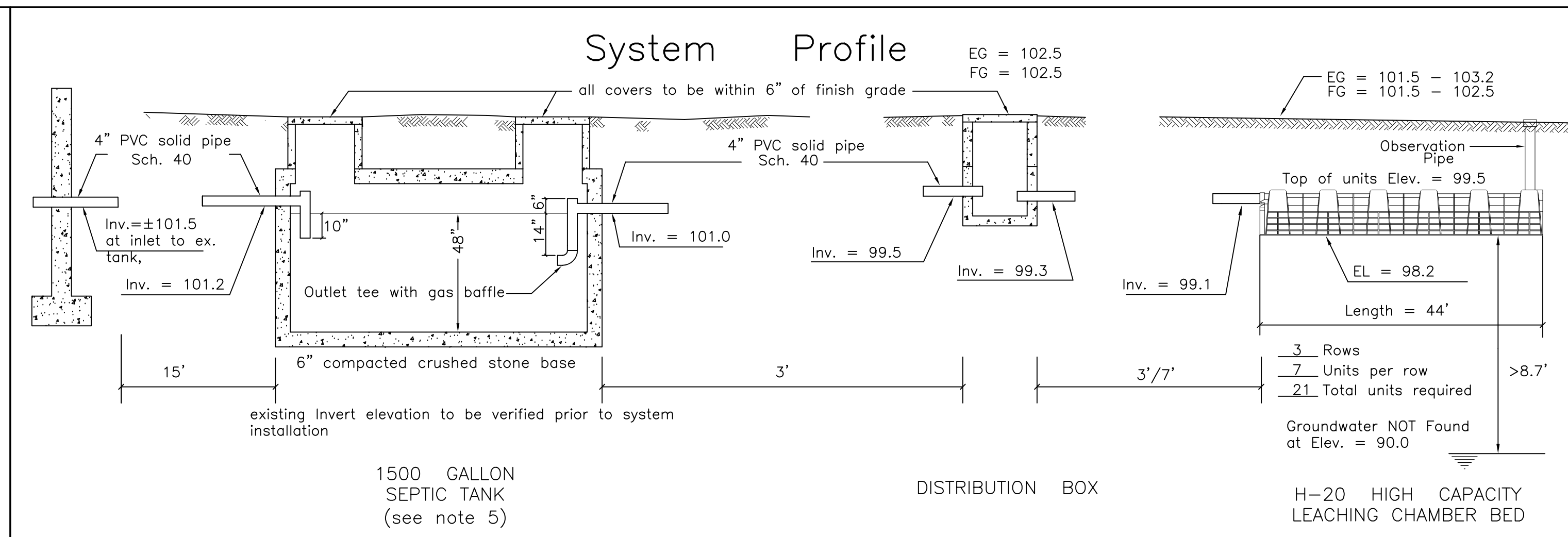
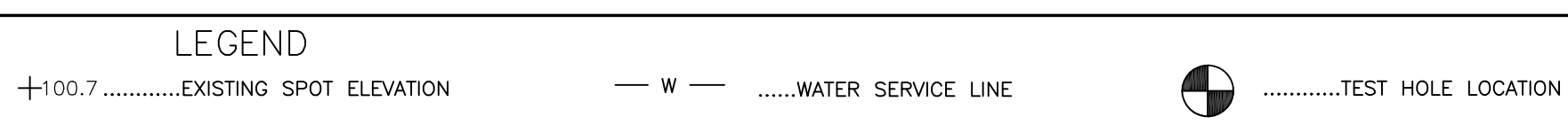


Plan
 Scale: 1 in. = 20 ft.
 Datum: Assumed



- Local upgrade approval waivers required:
1. Leaching facility to well separation: 150' req. - 124' proposed.
 2. Leaching facility to wetland separation: 150' req. - 94' proposed.
 3. Leaching facility to property line 30' required: 10' proposed.



- 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 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
 21 Leaching Chamber Units
 21 Units x 6.25 linear ft./unit x 4.72 sq.ft./linear ft. = 619 sq.ft.
 619 sq.ft. x 0.74 GPD/sq.ft. = 458 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 CHILMARK, MASS.

Designed for: Kerry Binder
 Street Address: 40 Blueberry Ridge
 Assessor No.: 8-66
 Lot Area: ±161,228 S.F.
 Designed By: Reid G. Silva, P.E.
 Checked By: R.G.S.
 Date: July 14, 2021
 Revised:



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

Depth	Horizon	Texture
0"-8"	A	Sandy loam
8"-36"	B	Loamy sand
36"-60"	C1	Loamy sand
60"-144"	C2	Medium sand

Perc. rate < 5 mpi. @60"
 No groundwater found at Elev. = 90.0