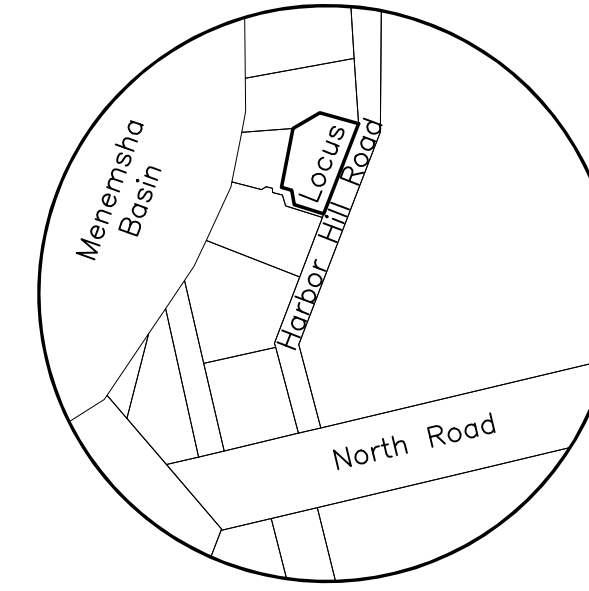


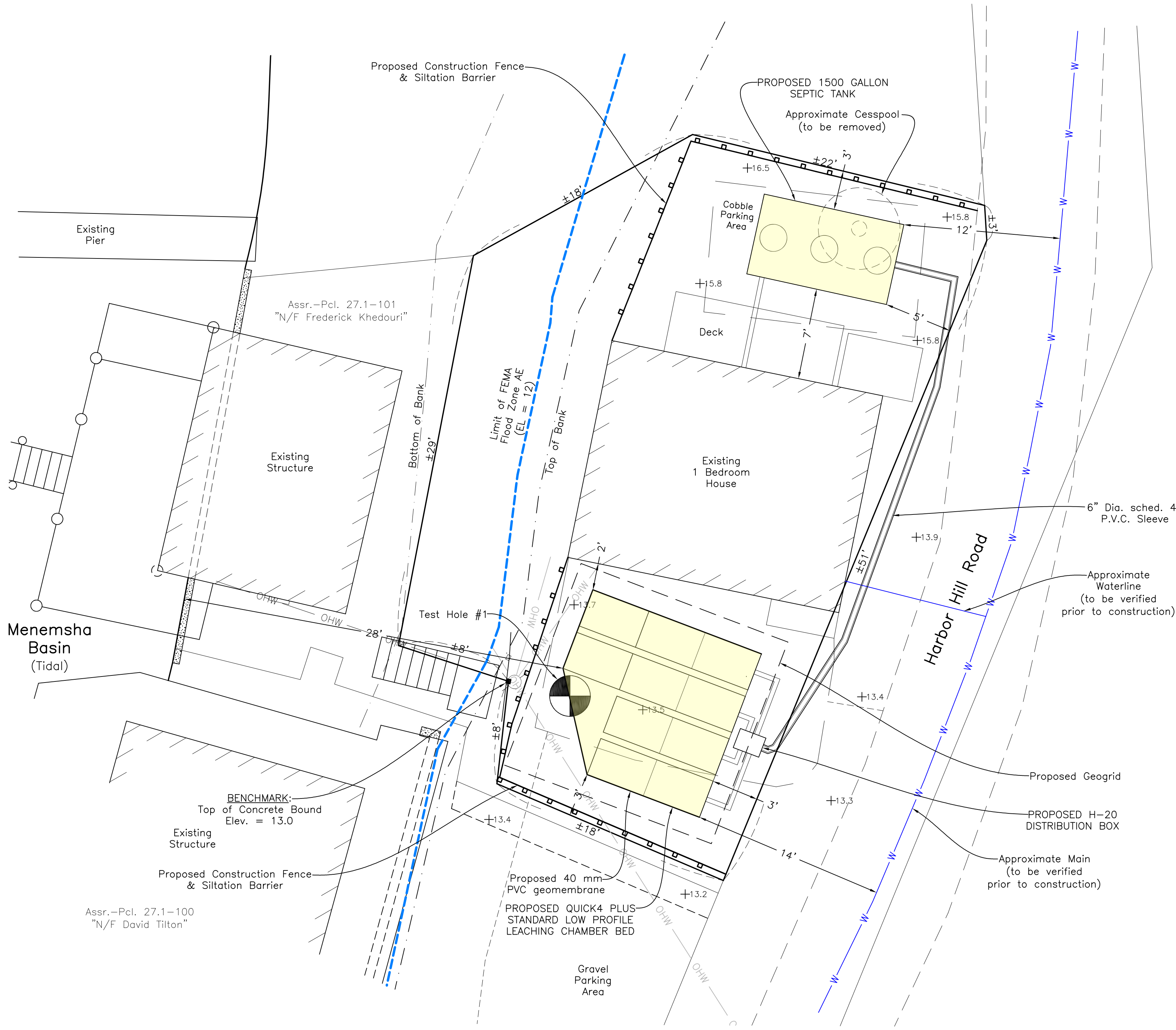
Plan

Scale: 1 in. = 5 ft.
Datum: N.A.V.D. 88

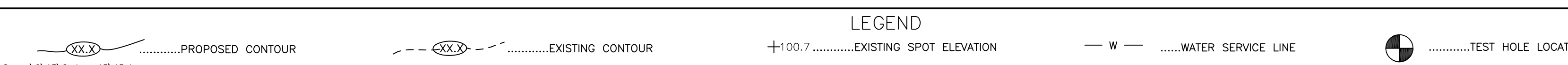


LOCUS MAP
Scale: 1" = 100'

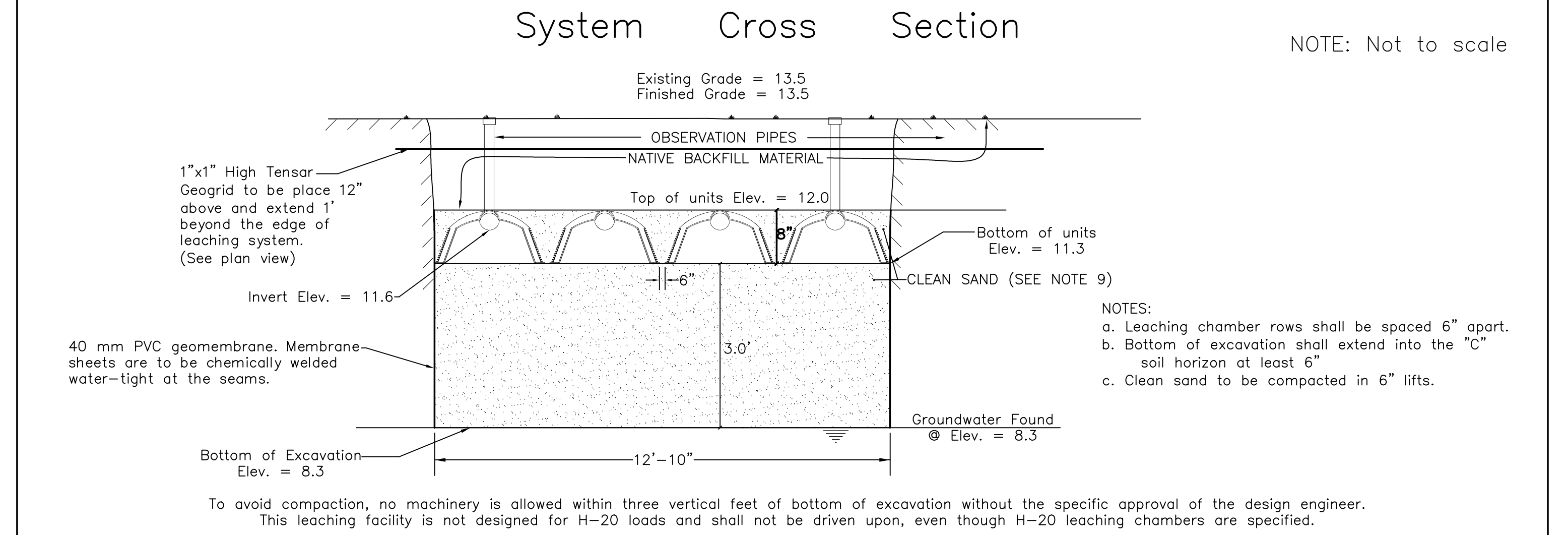
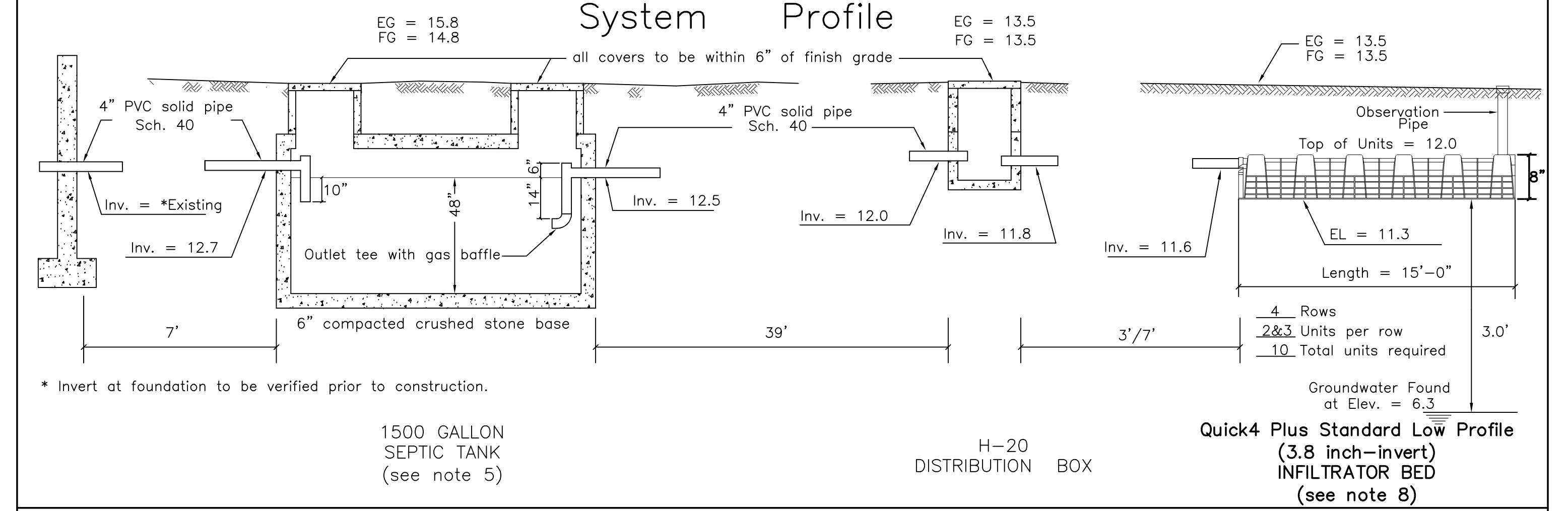
Assr.-Pcl. 27.1-103
"N/F Bessie, Gilbert & Donald
Wilcox, Trustees"



- Chilmark Board of Health Variances required:
1. Septic tank to property line 10' required: 3' & 5' proposed
 2. Septic tank to foundation 10' required: 7' proposed
 3. Leaching facility to property line 30' required: 3' proposed
 4. Leaching facility to foundation 10' required: 2' proposed
 5. Leaching facility to salt water body 200' required: 28' proposed
 6. Bottom of leaching field to ground water 5' required: 3' proposed
 7. Leaching area size: 110 GPD (One Bedroom Design)



System Profile



- ### 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 Quick4 Plus Standard Low Profile (Binch-invert) 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.
 11. The engineer is to inspect and approve the leaching excavation prior to the placement of any gravel, sand or components.
 12. The engineer (AND the local approving authority) is to inspect and approve the installation and placement of all septic components before final backfilling.
 13. A letter certifying satisfactory construction of this system is to be provided to the owner and the Board of Health by the Engineer.

Soil evaluator: Reid G. Silva, P.E. SOIL DATA
Witnessed By: Anna McCaffrey

Deep Observation Hole 1.
Date: January 19, 2024
Surface elevation = 13.7

Depth	Horizon	Texture
0"-18"	A	Fill
8"-30"	B	Sandy loam
30"-90"	C1	Sandy loam with clay pocets
90"-108"	C2	Clay

Perc. rate < 20 mpi. @ 30"
Perc. rate < 15 mpi. @ 68"
No groundwater found at 65" Elev. = 8.3

Design Criteria

Design Hydraulic Loading:
1 Bedrooms x 110 GPD/Bedroom = 110 GPD

Septic tank capacity:
Required: 110 GPD x 200% = 220 Gal. minimum
Septic tank provided = 1500 Gal.

Leaching Capacity Provided:
H-20 High Capacity Leaching Chamber Bed
10 Leaching Chamber Units
10 Units x 4.4 linear ft./unit x 4.73 sq.ft./linear ft. = 208 sq.ft.
208 sq.ft. x 0.56 GPD/sq.ft. = 116 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: SARA KHEDOURI
Street Address: #12 HARBOR HILL ROAD
Assessor No.: 27.1-102
Lot Area: ±1,478 Sq.Ft.
Designed By: Michael Tomkins
Checked By: R.G.S.
Date: March 15, 2024
Revised: 2024-04-18 Reconfigure leaching field.



Job No. 1480-3