

Plot Plan

Scale: 1"=40'
Lot Area: 3.91± acres

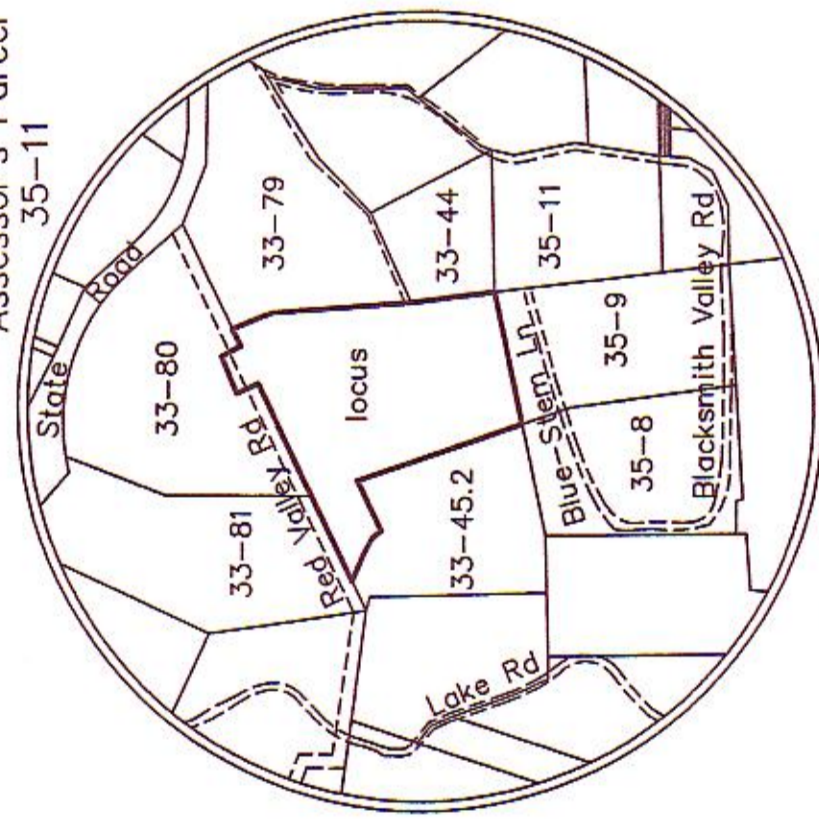
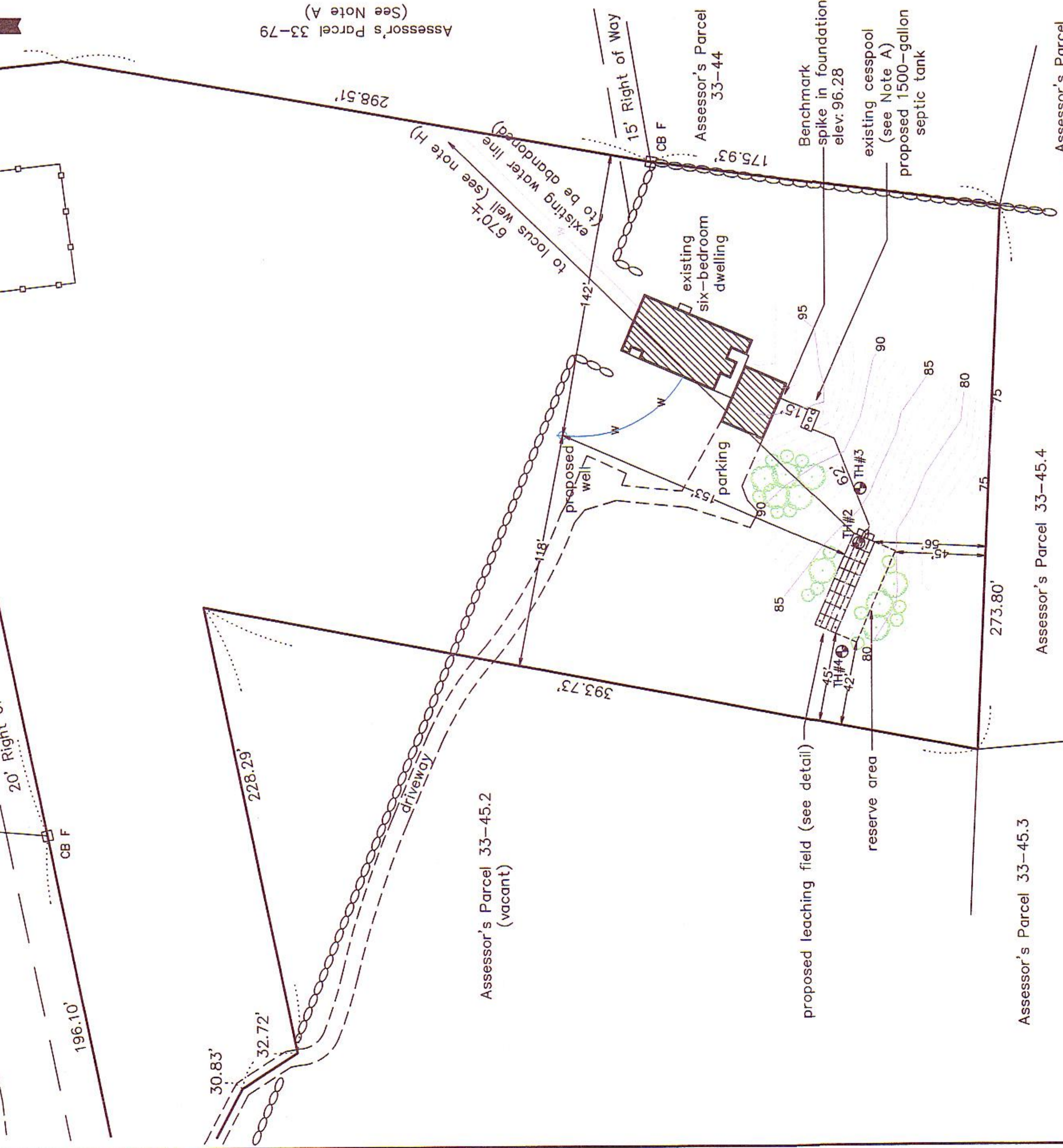
Assessor's Parcel 33-80

Assessor's Parcel 33-45.2 (vacant)

Assessor's Parcel 33-45.3

Assessor's Parcel 33-45.4

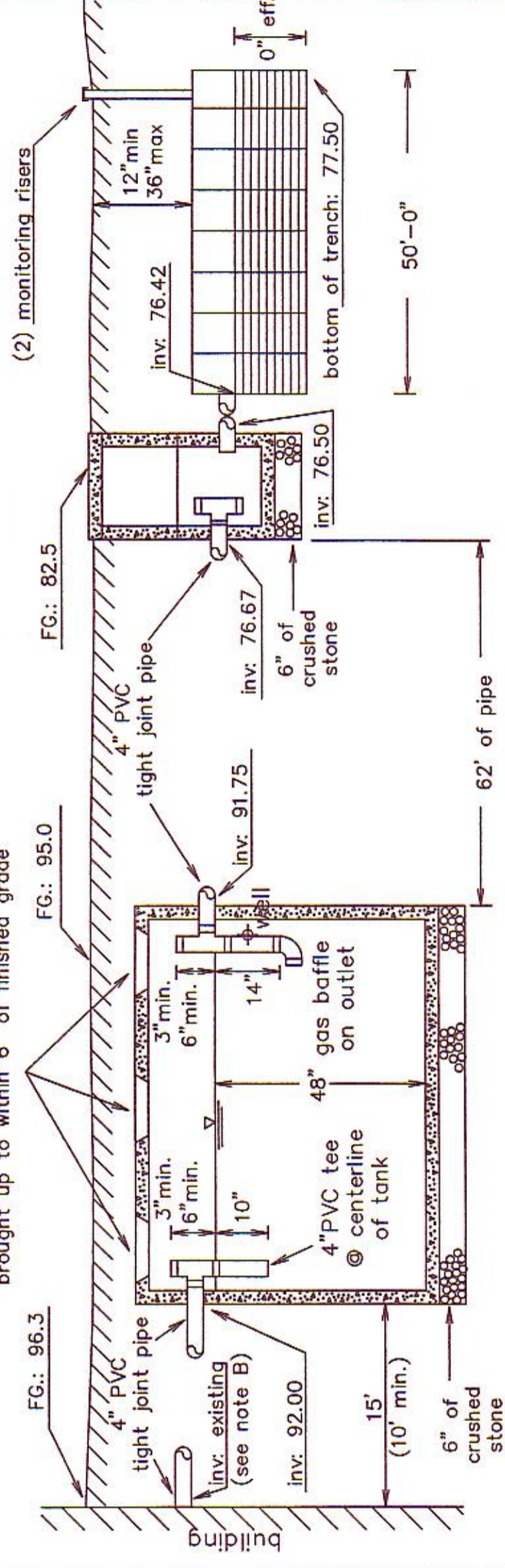
Assessor's Parcel 35-11



Locus Map (no scale)

- Notes:**
- Existing cesspool to be abandoned, pumped, crushed, and backfilled with clean sand
 - Invert at foundation to be verified at start of construction
 - Underground utilities to be located at start of construction and relocated as required
 - No leaching facilities were found within 150' of the proposed well
 - No wells were found within 150' of the proposed leaching facility
 - Proposed well was staked by Schofield, Barbini, & Hoehn, Inc. on October 4, 2023
 - Leaching field excavation to be inspected by design engineer at time of construction
 - The existing well serving locus is located on Assessor's Parcel 33-79 and is to be disconnected but remain available for potential future development of Parcel 33-79

Profile of System

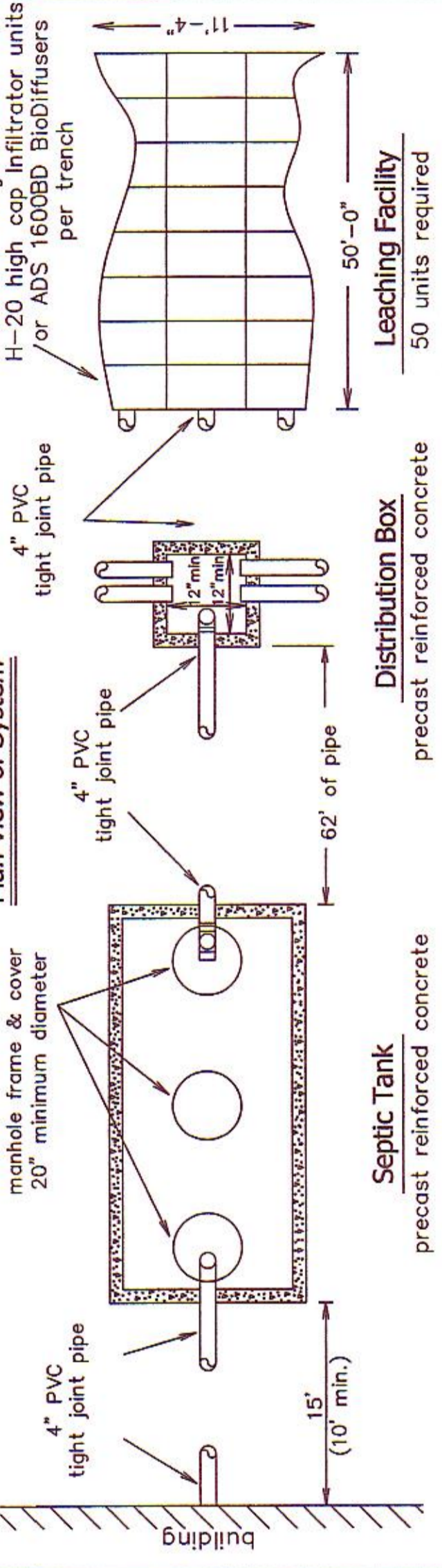


Septic Tank
capacity: 1500 gallons
precast reinforced concrete

Distribution Box
five outlets
"speed levelers" to be provided (42 units required)

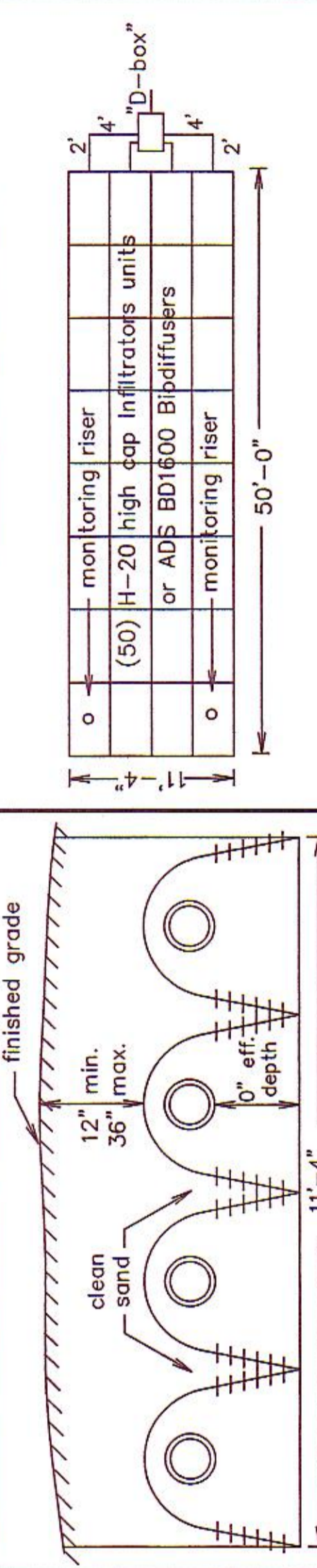
Leaching Field
bottom of trench level for entire length (42 units required)

Plan View of System



Typical Leaching Field Cross-Section (no scale)

finished grade above structure



Schedule of Elevations

Top of foundation:	99.39/96.18	finished grade above structure	82.5
Basement floor:	existing		
Inverts at foundation:	96.3 (see Note B)		
Invert at septic tank inlet:	92.00		
Invert at septic tank:	91.75		
Invert at distribution box:	78.67		
Invert at distribution box outlet:	78.50		
Invert at septic tank inlet:	77.42		
Elevation of field bottom:	77.50		

Percolation Test Data

Test pit #	date	depth from top of pit	top of 12" of water elevation (mpt)	rate: (mpt)
2	3/26/23	54"	78.5	<5
4	3/26/23	36"	78.0	<5

Groundwater was not encountered at a depth of 120" (elevation: 76.2)

Deep Test Pit 2 (Surface Elevation: 83.0)

Depth	Horiz.	Soil Description
0'-8"	A	Loamy f-m SAND
8'-24"	B	Sandy LOAM
24'-54"	C1	Sandy LOAM
54'-120"	C2	SAND

Groundwater was not encountered at a depth of 120" (elevation: 71.0)

Deep Test Pit 3 (Surface Elevation: 86.2)

Depth	Horiz.	Soil Description
(not logged)		

Deep Test Pit 4 (Surface Elevation: 81.0)

Depth	Horiz.	Soil Description
0'-8"	A	Loamy f-m SAND
8'-20"	B	Loamy f-m SAND
20'-120"	C	Loamy f-m SAND

Groundwater was not encountered at a depth of 120" (elevation: 71.0)

General Notes

- Elevations refer to approximate mean sea level datum. See bench mark on plot plan located on wall in foundation (elevation: 96.28)
- Finished grading to be done in accordance with plot plan.
- Percolation tests to be performed in accordance with the instructions of Title V of the Massachusetts State Environmental Code.
- All construction to conform to Title V and Board of Health requirements.
- Septic tank and distribution box shall be watertight after construction, including covers.
- No driveway, parking or turning area or other impervious areas shall be located above the soil absorption system.
- No permanent structure may be constructed over the 100% expansion area.
- Schofield, Barbini, & Hoehn, Inc. will not be responsible for the performance of the system unless constructed as shown. Any alterations must be approved in writing by Schofield, Barbini, & Hoehn, Inc.
- The Board of Health shall require inspection of all construction by the design engineer and by the agent of the Board of Health.
- The design engineer and the system installer shall certify in writing to the approving authority that the system has been constructed in compliance with the approved plans.
- For proper performance, the septic tank should be inspected at least once a year and when the total depth of scum and solids exceed 1/3 the liquid depth of the tank, the tank should be pumped.
- Distribution box cover to be brought to finish grade.

Design Data

- Estimated Hydraulic Loading:
Six bedrooms at 110 gallons per day per bedroom = 660 GPD
Garbage disposal is not allowed with this design.
- Septic Tank Size:
Required tank capacity: 660 x 200% = 1320 gallons (minimum)
Septic tank provided: 1500 gallons
- Design percolation rate: 5 MPI
Soil textural class: 1
Loading rate: 0.74 GPD/SF
- Leaching Area:
Total leaching area provided: 566 SF
- Maximum Allowable Loading:
566 SF x 1.67 (chamber general permits) x 0.74 GPD/SF = 699 GPD
Actual hydraulic loading: 660 GPD

Legend

- XX--- Denotes proposed contour
- F.G. = XXX Denotes proposed finished grade
- XX Denotes existing contour
- ⊙ Denotes test hole location
- P.V.C. Denotes polyvinyl chloride pipe, Sch. 40, unless noted
- Denotes catch basin
- Denotes extra heavy cast iron
- Denotes water service
- Denotes approximate property line
- Denotes overhead wires
- Denotes storm drain pipe

Proposed Sewage Disposal System

To Serve an Existing Six-Bedroom Dwelling
16 Red Valley Road - Assessor Parcel 33-45.1
Chilmark, Massachusetts

Applicant: Chesapeake Realty Trust
c/o Schofield, Barbini, & Hoehn, Inc.
PO Box 339
Vineyard Haven, MA 02568
Ph: (508) 693-2781

date: October 6, 2023
designed by: CFA
drawn by: CFA
checked by: CHD
Schofield, Barbini, & Hoehn, Inc.
Land Surveying
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