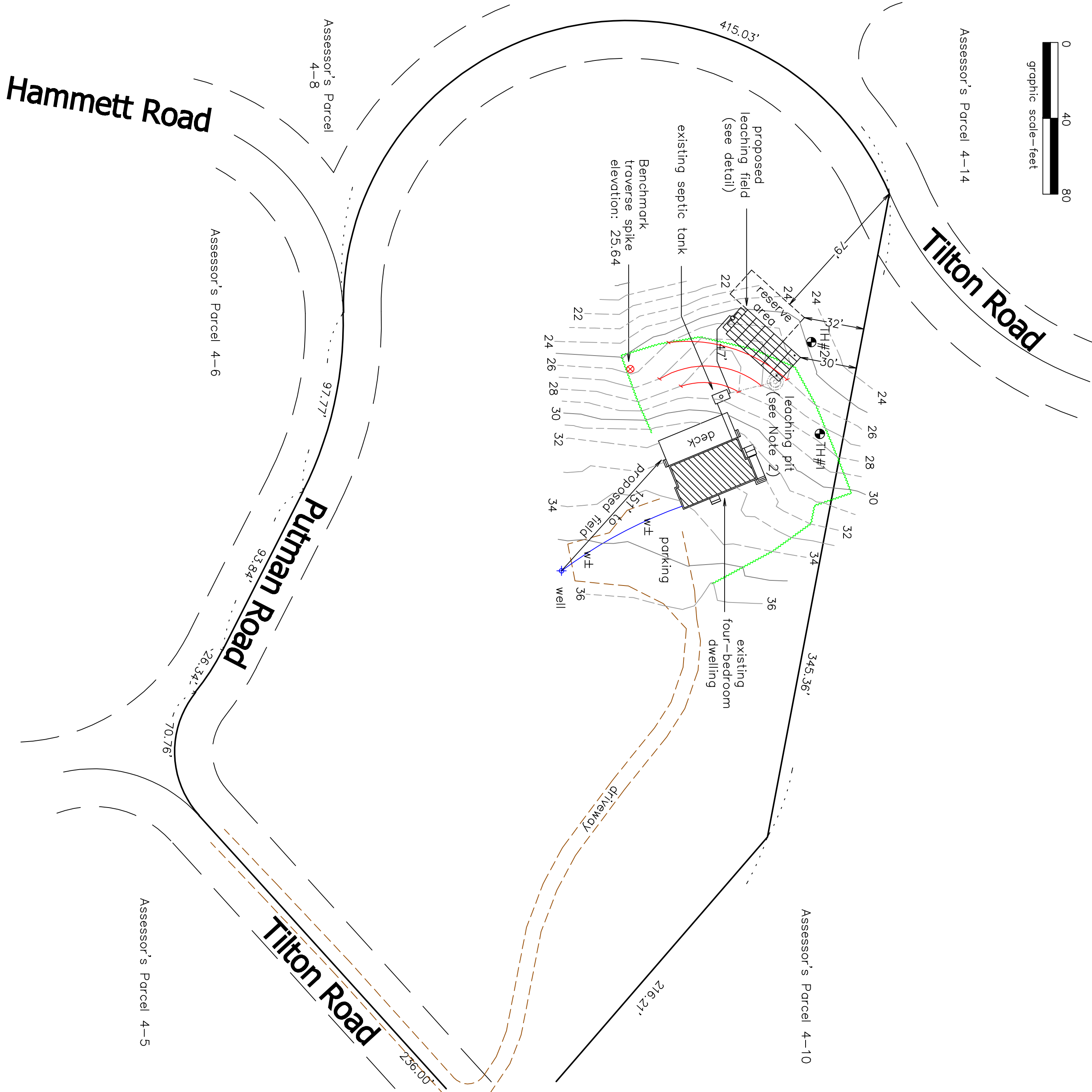
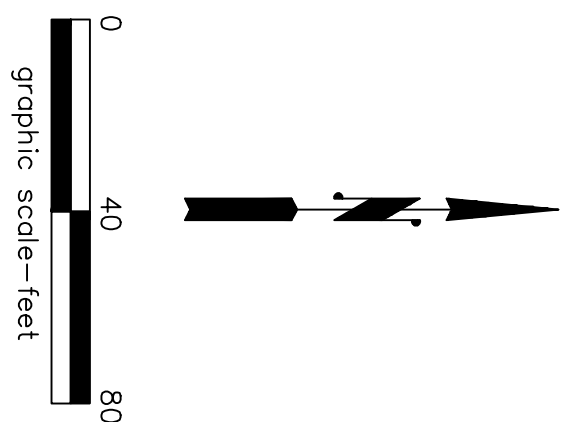
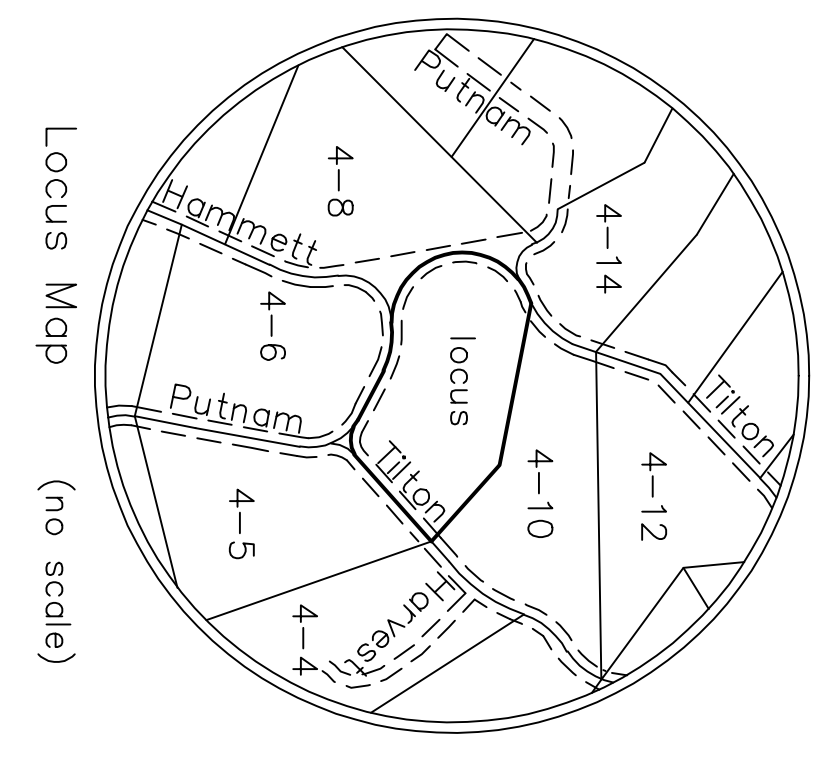


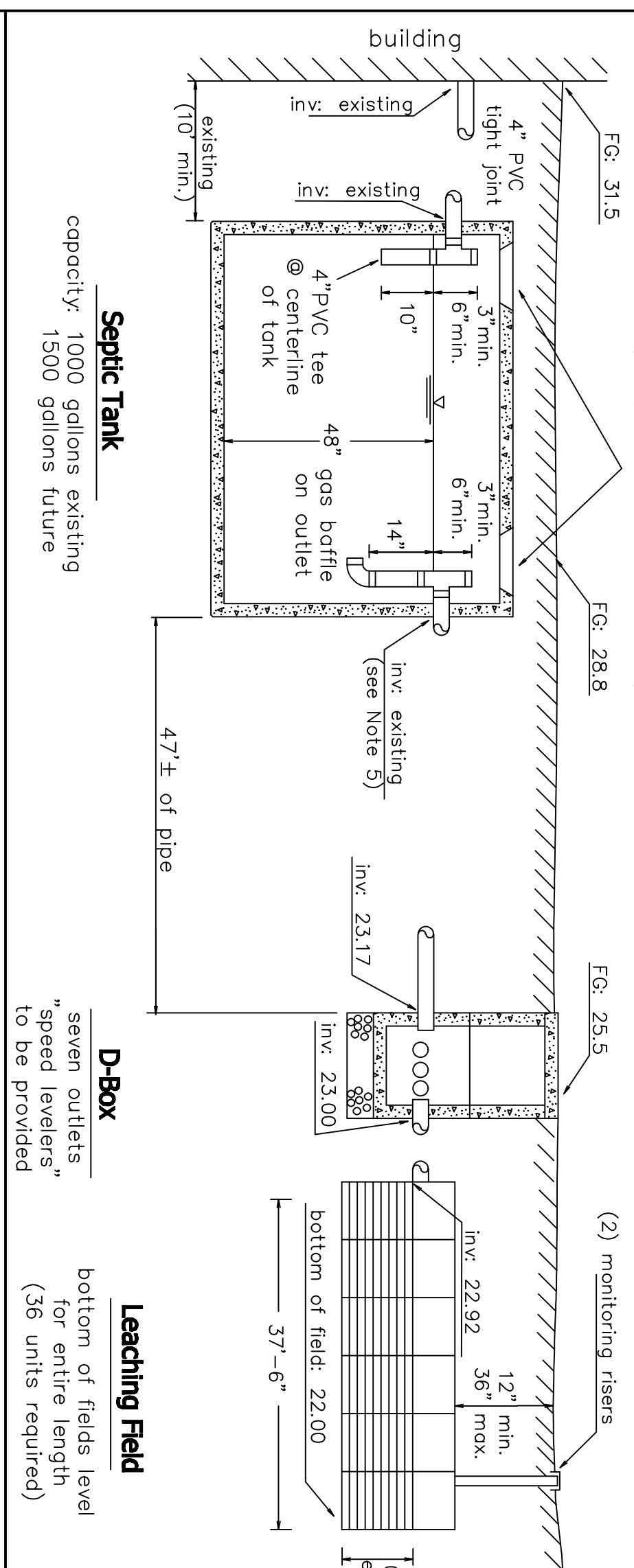
Plot Plan
 Scale: 1"=40'
 Lot Area: 3.246± acres



- Notes:**
- No wells were found within 150' of the proposed leaching field
 - Existing leaching pit to be abandoned, pumped, excavated, and backfilled with screened sand
 - Engineer to inspect removal of leaching pit prior to placement of sand fill upon
 - Existing 1000-gallon septic tank to be replaced with new 1500-gallon tank upon
 - Existing invert of septic tank outlet to be verified at start of construction
 - Underground utilities to be located at start of construction and relocated as required



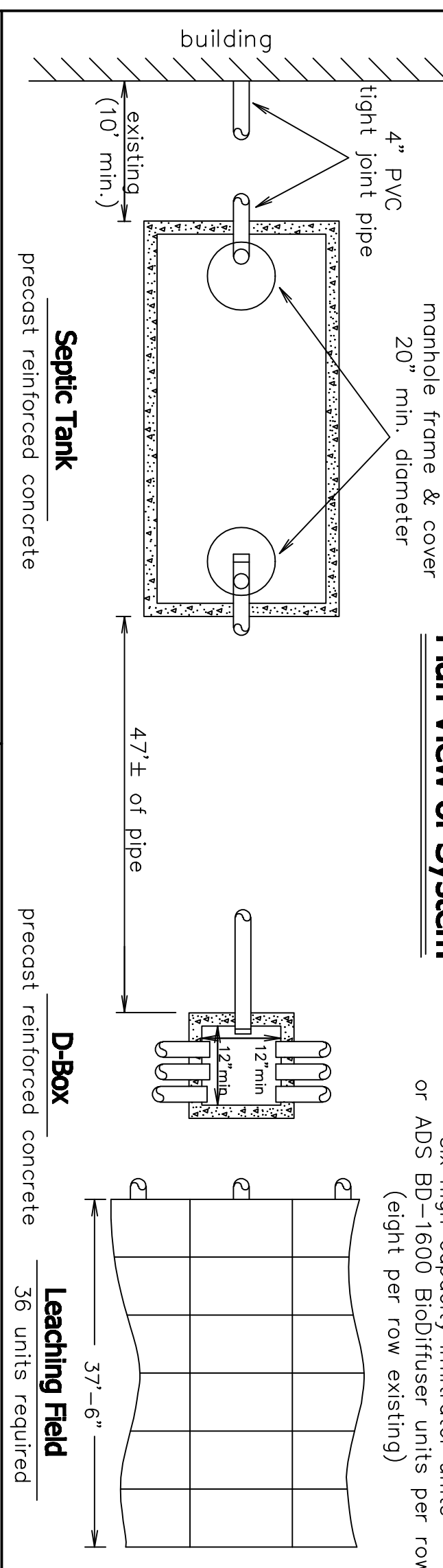
Profile of System



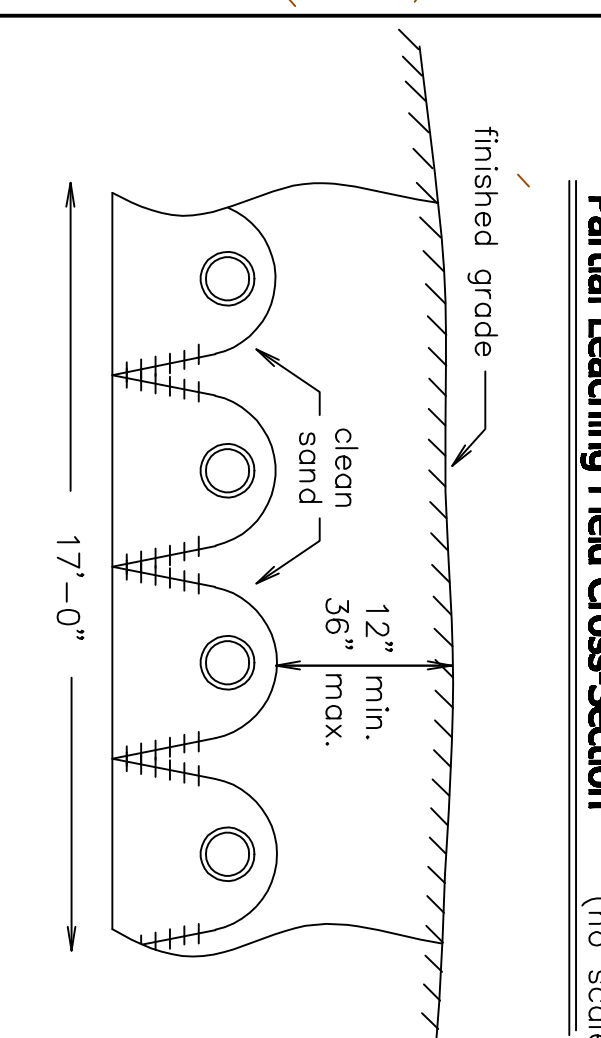
General Notes

- Elevations refer to approximate mean sea level datum. See bench mark on plot plan located on traverse spike (elevation: 25.64)
- 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. Including covers.
- 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, Barhini & 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, Barhini & 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.

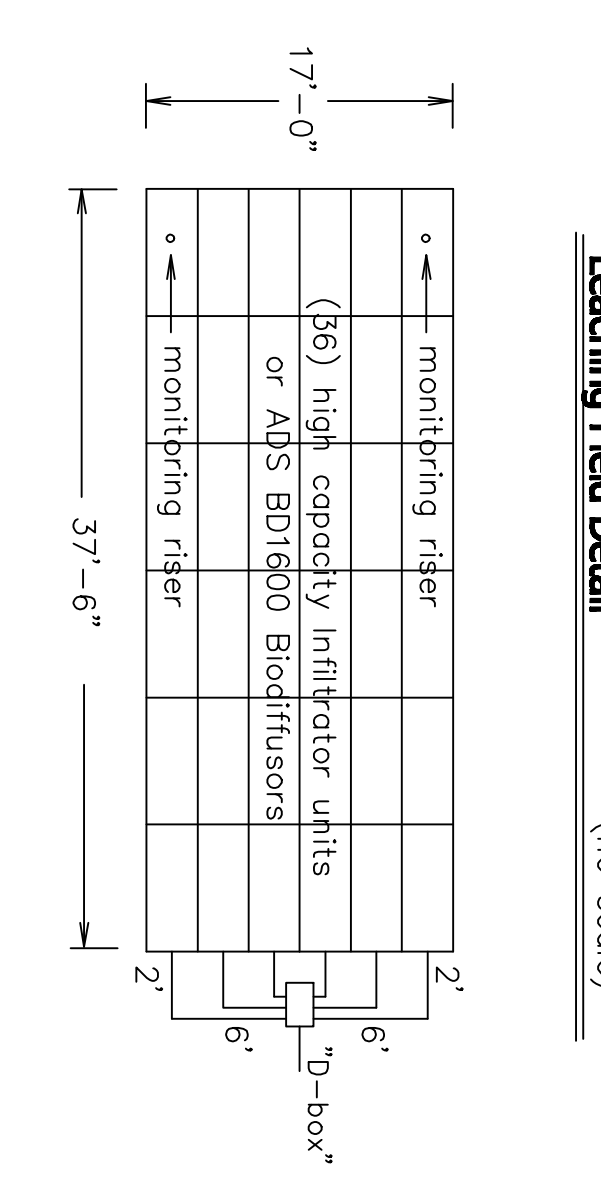
Plan View of System



Partial Leaching Field Cross-Section (no scale)



Leaching Field Detail (no scale)



Schedule of Elevations

Top of foundation elevation:	34.40±	finished grade above structure
Basement floor:	26.90±	
Invert of foundation:	existing	31.5
Invert of distribution box inlet:	existing	23.17
Invert of distribution box outlet:	existing	23.00
Invert of septic tank inlet:	existing	25.5
Invert of septic tank outlet:	existing	28.8
Invert of infiltrator inlet:	existing	22.92
Elevation of field bottom:	existing	22.00

Deep Test Pit 4 (Surface Elevation: 27.5)

Date:	December 12, 2022	
Depth	Horiz.	Soil Description
0'-7"	A	f-m Sandy LOAM
7'-27"	B	f-m Sandy LOAM
27'-102"	C1	SAND and Gravel with Cobbles to Boulders
102'-120"	C2	Sandy LOAM

Deep Test Pit 5 (Surface Elevation: 24.8)

Date:	December 12, 2022	
Depth	Horiz.	Soil Description
0'-8"	A/E	f-m Sandy LOAM
8'-33"	B	f-m SAND
33'-114"	C	SAND and Gravel w/ Boulders

Percolation Test Data

test pit #	date	top of 12" of water depth from top of pit	elevation	rate (mp)
1	12/12/22	36"	24.5	<5
2	12/12/22	36"	21.8	<5

Design Data

- Estimated Hydraulic Loading: Four + two bedrooms @ 110 GPD 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: 1000 gallons current; (1500 gallons future)
- Design percolation rate: 5 MPI. Soil textural class: I. Loading rate: 0.74 GPD/SF
- Leaching Area: Total leaching area provided: 637 SF
- Maximum Allowable Loading: 566 SF x 1.67 (chamber general permits) x 0.74 GPD/SF = 787 GPD. Actual hydraulic loading: 660 GPD

Legend

- X--- Denotes proposed contour
- F.G. = XXX Denotes proposed finished grade
- XX Denotes existing contour
- Denotes catch basin
- Denotes test hole location
- Denotes extra heavy cast iron
- Denotes water service
- W Denotes water service
- R Denotes overhead wires
- O.W. Denotes storm drain pipe
- D Denotes "clean-out" to grade

Proposed Sewage Disposal System

To Serve on Existing Four-Bedroom Dwelling
 And a Future Guest House (Six Bedroom Design)
 4 Tilton Road - Assessor's Parcel 4-9
 Chilmark, Massachusetts

Applciant: Richard & Tracey LI
 45 Dogwood Lane
 Needham, MA 0249

Phone: (919) 345-3317

date: March 11, 2023
 designed by: CPA
 drawn by: CPA
 checked by: CHD
 Schofield, Barhini & Hoehn, Inc.
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MV 12442