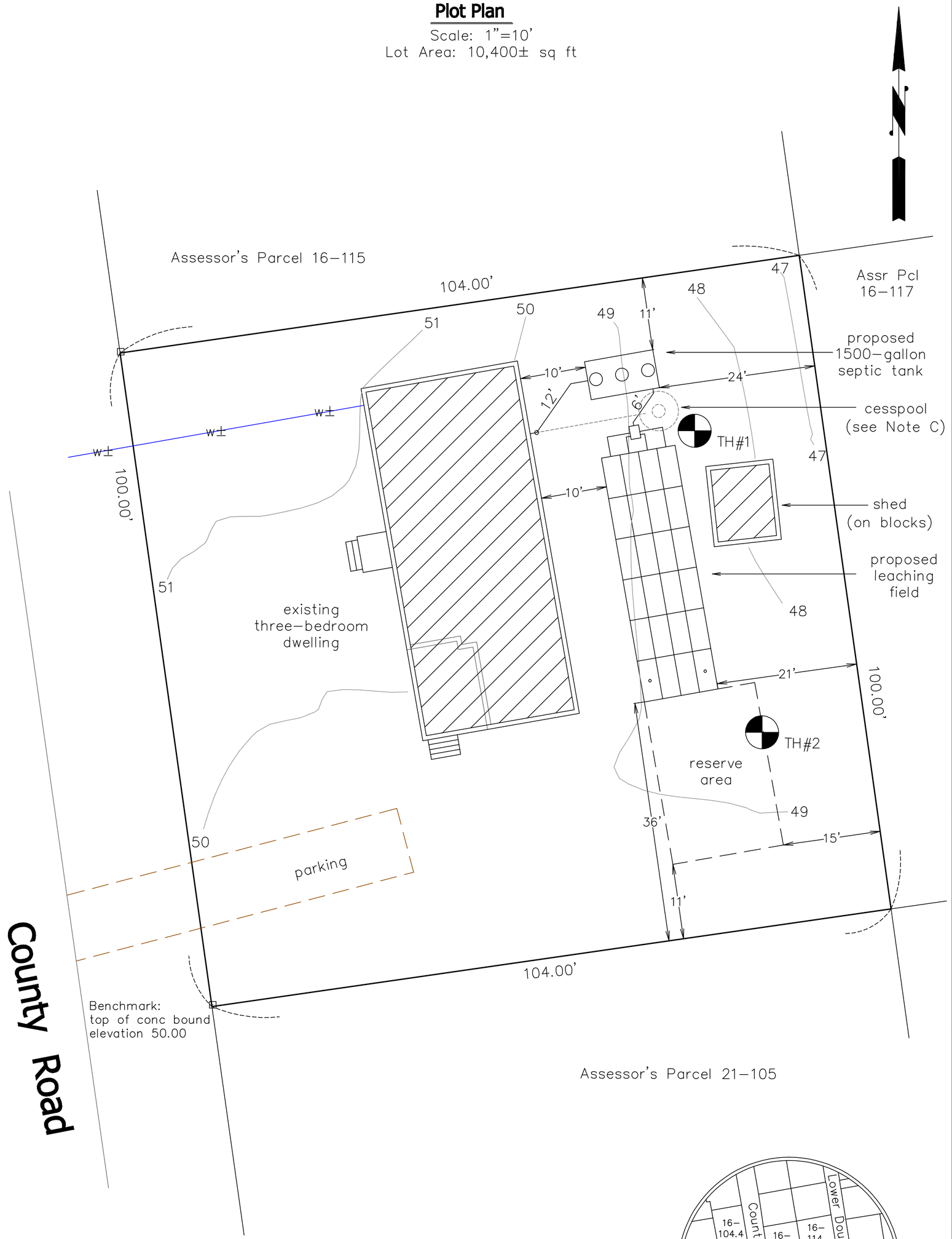
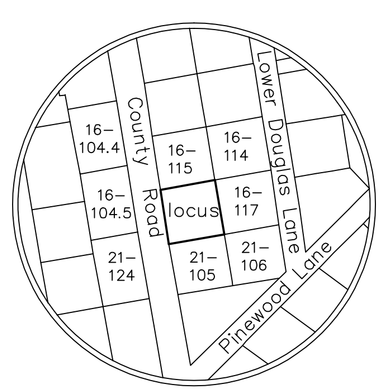
Plot Plan

Scale: 1"=10'
Lot Area: 10,400± sq ft

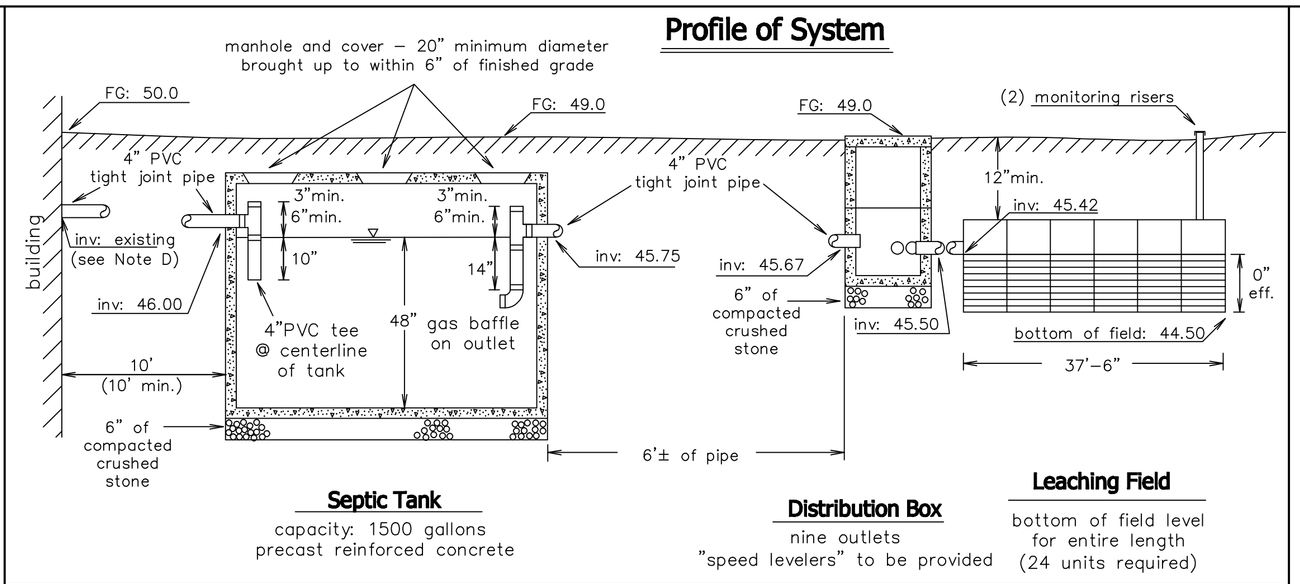


Notes:
A. No wells were found within 100' of the proposed leaching field
B. Locus lies within Zone II of the Farm Neck Municipal well
C. Existing cesspool to be abandoned, pumped, crushed, and backfilled with clean sand
D. Invert at dwelling foundation to be verified at start of construction
E. Underground utilities to be located at start of construction and relocated as required



Locus Map (no scale)

Profile of System

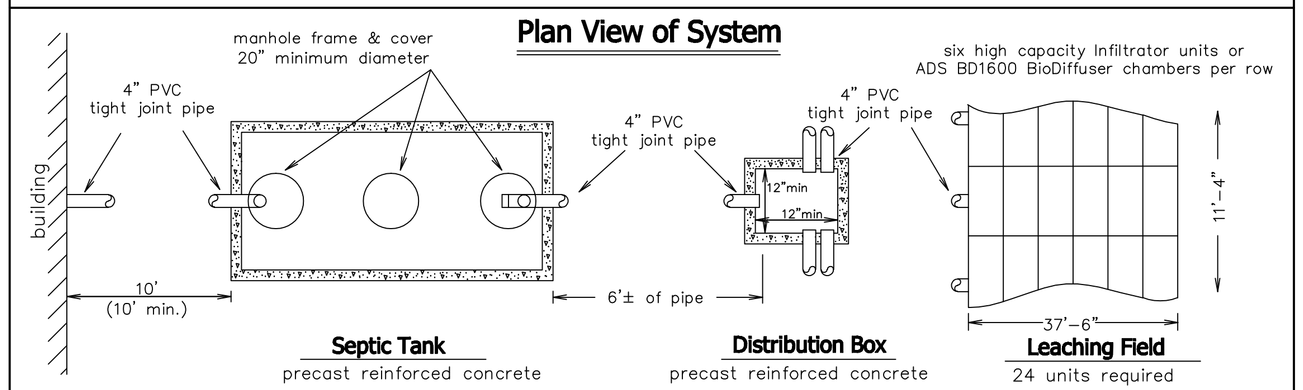


Septic Tank
capacity: 1500 gallons
precast reinforced concrete

Distribution Box
nine outlets
"speed levelers" to be provided

Leaching Field
bottom of field level for entire length (24 units required)

Plan View of System

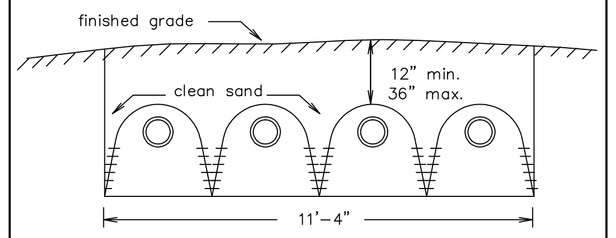


Septic Tank
precast reinforced concrete

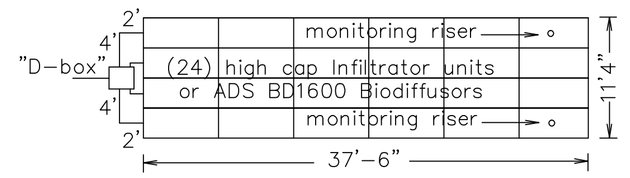
Distribution Box
precast reinforced concrete

Leaching Field
24 units required

Typical Leaching Field Cross-Section (no scale)



Leaching Facility Detail (no scale)



Schedule of Elevations

		finished grade above structure			finished grade above structure
Top of foundation =	existing		Invert at distribution box inlet =	45.67	
Basement floor =	n/a (crawl)		Invert at distribution box outlet =	45.50	49.0
Inverts at foundation =	existing (see Note D)	50.0			
Invert at septic tank inlet =	47.00		Invert at infiltrator inlet =	45.42	
Invert at septic tank outlet =	45.75	49.0	Elevation of field bottom =	44.50	

Deep Test Pit 1 (Surface Elevation: 48.5)
Date: September 3, 2020

Depth	Horiz.	Soil Description
0"–15"	fill	Loamy SAND
15"–23	A	f–m Sandy LOAM
23"–36"	B	Loamy SAND
36"–132"	C	Loamy SAND and SAND

Groundwater was not encountered at a depth of 132" (elevation: 37.5)

Deep Test Pit 2 (Surface Elevation: 48.5)
Date: September 3, 2020

Depth	Horiz.	Soil Description
0"–8"	A	Loamy SAND
8"–36"	B	Loamy SAND
36"–114"	C	m–c SAND

Groundwater was not encountered at a depth of 114" (elevation: 39.0)

Percolation Test Data

test pit #	date	top of 12" of water: depth from top of pit	top of 12" of water: elevation	rate: (mpi)
2	9/11/20	36"	45.5	<2

General Notes

1. Elevations refer to mean sea level datum. See bench mark on plot plan located on concrete bound (elev: 50.00)
2. Finished grading to be done in accordance with plot plan.
3. Percolation tests to be performed in accordance with the instructions of Title V of the Massachusetts State Environmental Code.
4. All construction to conform to Title V and Board of Health requirements.
6. Septic tank and distribution box shall be watertight after construction, including covers.
7. No driveway, parking or turning area or other impervious areas shall be located above the soil absorption system.
8. No permanent structure may be constructed over the 100% expansion area.
9. 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.
10. The Board of Health shall require inspection of all construction by the design engineer and by the agent of the Board of Health.
11. 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.
12. 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.
13. Distribution box cover to be brought to finish grade.

Design Data

1. Estimated Hydraulic Loading:
   Three at 110 gallons per day per bedroom = 330 GPD
   Garbage disposal is not allowed with this design.
2. Septic Tank Size:
   Required capacity: 330 GPD x 200% = 660 gallons (min.)
   Septic tank provided: 1500 gallons
3. Design percolation rate: 5 MPI
   Soil textural class: I
   Loading rate: 0.74 GPD/SF
4. Leaching Area:
   Total leaching area provided: 424 SF
5. Maximum Allowable Loading:
   424 SF x 1.67 (chamber general permits) x 0.74 GPD/SF = 524 GPD
   Actual hydraulic loading: 330 GPD

Legend

---XX---	Denotes proposed contour
F.G. = XX.X	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
E.H.C.I.	Denotes extra heavy cast iron
— W —	Denotes water service
— PL —	Denotes approximate property line

Proposed Sewage Disposal System

To Serve an Existing Three–Bedroom Dwelling
238 County Road – Assessor's Parcel 16–116
Oak Bluffs, Massachusetts

Applicant: Gabe Carrieri
284 First Street
Melrose, MA 02176

Phone: (617) 797–4602

Date: November 17, 2020
designed by: CPA | drawn by: CPA | checked by: JAL

Schofield, Barbini & Hoehn, Inc.
Land Surveying Civil Engineering
12 Surveyor's Lane, Box 339
Vineyard Haven, Mass. 02568
508–693–2781
www.sbhinc.net

MV 12057