

### Design Data

- Estimated Hydraulic Loading:  
Sixty-six bedrooms @ 150 GPD/bedroom = 9,900 GPD  
Garbage disposals are NOT allowed with this design
- Septic Tank Size:  
Required septic tank capacities: 9,900 GPD x 200% = 19,800 gallons (min)  
Septic tank provided: 20,824 gallons
- Design percolation rate: 5 MPI  
Soil textural class: I  
Loading rate: 0.74 GPD/SF(effective)
- Leaching Area:  
Leaching area: 280 units x 30.24 SF/unit = 8,468 SF (4,234 sf per field)
- Maximum Allowable Loading:  
8,468 SF x 1.67 (chamber General Permit) 0.74 GPD/SF = 10,464 GPD (5,232 GPD per field)

Actual hydraulic loading: 9,900 GPD (4,950 per field)

### Legend

- XX---
- FG: XX.X
- XX
- ⊕
- PVC
- EHCI
- 

Denotes proposed contour  
Denotes proposed finished grade  
Denotes existing contour  
Denotes test hole location  
Denotes polyvinyl chloride pipe, Sch. 40, unless noted  
Denotes catch basin  
Denotes extra heavy cast iron  
Denotes 4" PVC "cleanout" to grade

### Schedule of Elevations

	1	2	3	4	5	
First floor elevation:	45.00	48.00	47.00	48.00	48.00	finished grade
Basement floor:	n/a	n/a	n/a	n/a	n/a	
Inverts at foundation:	42.25	44.00	44.00	44.00	44.00	
Invert at septic tank inlet:	39.75					
Invert at septic tank outlet:	39.50					
Invert at SAB chamber inlet:	39.50					
Invert at SAB chamber outlet:	39.25					
Invert at DB chamber inlet:	39.25					
Invert at DB chamber outlet:	39.00					
Invert at primary pump chamber inlet:		39.00				
Invert at primary pump chamber outlet:		39.00	45.0			
Invert at secondary distribution box inlet:		40.17	#1	#2		
Invert at secondary distribution box outlet:		40.00	43.01	44.0		
Invert at Infiltrator 3050 unit inlet:		39.67				
Elevation of field bottom:		37.65				

Test Pit PE-TP-3 (Surface Elevation: 39.4)			Test Pit PE-TP-4 (Surface Elevation: 46.6)			Percolation Test Data				
Depth	Horiz.	Soil Description	Depth	Horiz.	Soil Description	test pit #	date	top of 12" of water depth from top of pit	elevation	rate: (mpi)
0"-14"	A	Organics and Sandy Loam	0"-14"	A	Organics and Sandy Loam	PE-TP-3	6/8/22	36"	36.4	<5
14"-35"	B	Loamy SAND	14"-36"	B	Loamy SAND	PE-TP-4	6/8/22	36"	43.3	<5
35"-44"	C1	Medium Sand with trace Silt and Gravel	36"-46"	C1	Medium Sand with trace Silt					
44"-142"	C2	Medium SAND	46"-130"	C2	Medium SAND					
Groundwater was not encountered at a depth of 142" (elevation: 27.5)			Groundwater was not encountered at a depth of 130" (elevation: 35.7)							

### Pump Notes

- Pumps to be Myers Model WHR5, 1/2 hp, three phase. 208 volt (oae)
- Controls to be for duplex pumping system
- Force main to be 2" sch 40 PVC with 48" cover or insulated for frost protection
- A high water alarm shall be installed on a circuit other than the pump control circuit
- Control elevations: lag pump & alarm on: 35.20, lead pump off: 35.00, lead pump on: 34.00

### General Notes

- Elevations refer to an Mean Sea Level Datum (NAVD88).  
See bench mark on plot plan located on traverse spike (elevation: 31.91)
- Finished grading to be done in accordance with plot plan.
- All construction to conform to Title V and Edgartown Board of Health requirements.
- 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.
- For proper performance, the septic tank should be inspected at least once a year and pumped when the total depth of scum and solids exceed 1/3 the liquid depth of the tank.
- Distribution box covers to be brought to finish grade.

### Project Notes

- Design engineer to inspect excavation of leaching facility at time of construction
- An Operation and Maintenance contract for the Kleen Tu system shall be signed and a copy shall be filed with the Edgartown Board of Health
- Distribution Box to be designed and constructed to handle H=20 loading
- All lines run below roadway to be Schedule 80 PVC
- Locus lies "North and East of the Edgartown Groundwater Divide"  
A variance from Section 2.32 of the Edgartown Board of Health Regulations is required:  
67 bedrooms allowed on 14.96 acres  
90 equivalent bedrooms proposed  
(90-67)/67 = 34.3% overage
- See shop drawings by Kleen Tu Wastewater Treatment Technologies for Integrated Tank details

### Locus Map

(no scale)

## PRELIMINARY

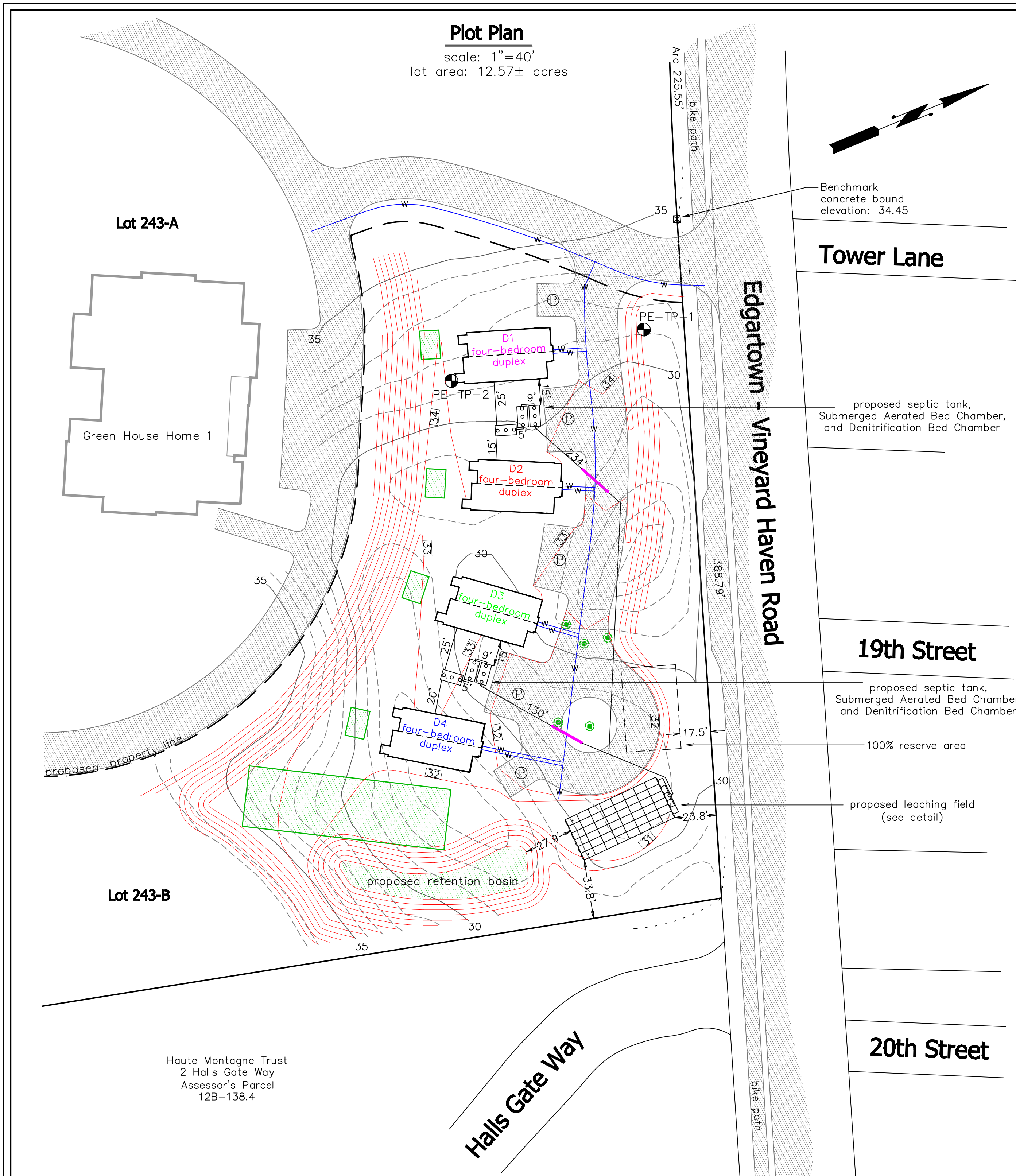
### Proposed Sewage Disposal System

To Serve a Sixty-Six Bedroom Skilled Nursing Facility  
part of 490 Edgartown-Vineyard Haven Road  
Assessor's Parcel 11B-243 (Lot 243-A)  
Edgartown, Massachusetts

Applicant: Navigator Homes of M V, Inc. Ph: (508) 693-2781  
c/o Schofield, Barbini, & Hoehn, Inc.  
PO Box 339  
Vineyard Haven, MA 02568

Date: August 25, 2022  
designed by: CPA | drawn by: CPA | checked by: CHD  
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 11579-G



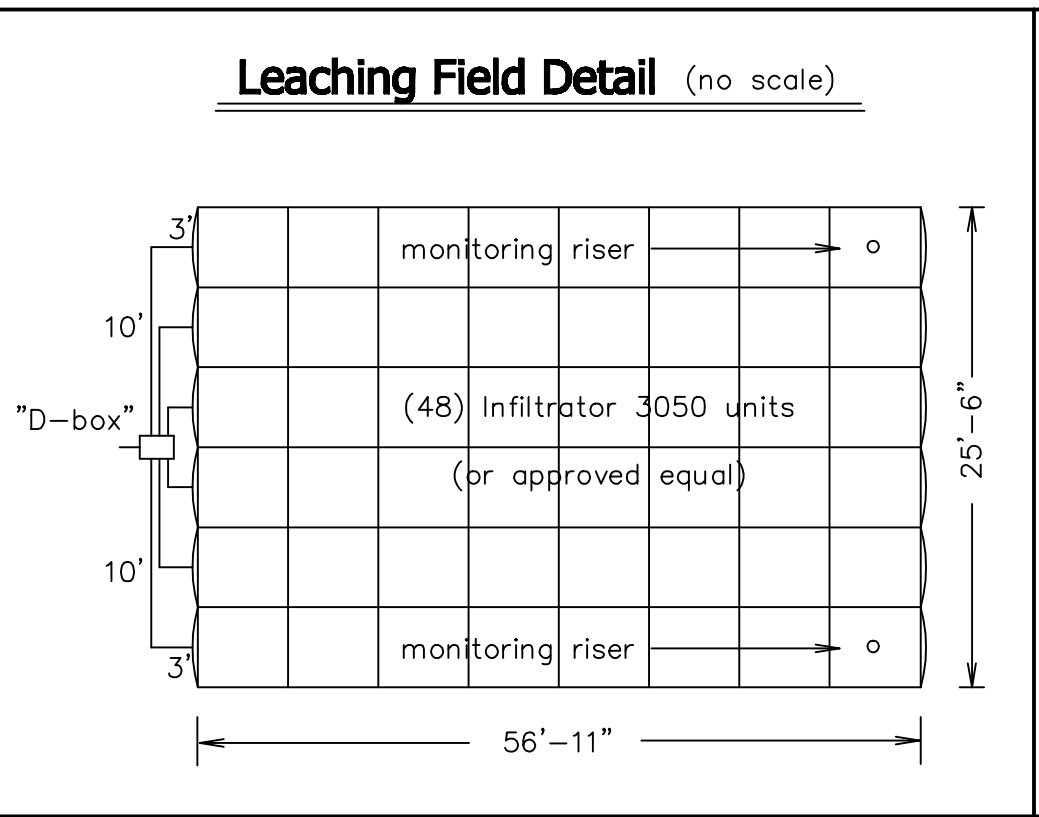
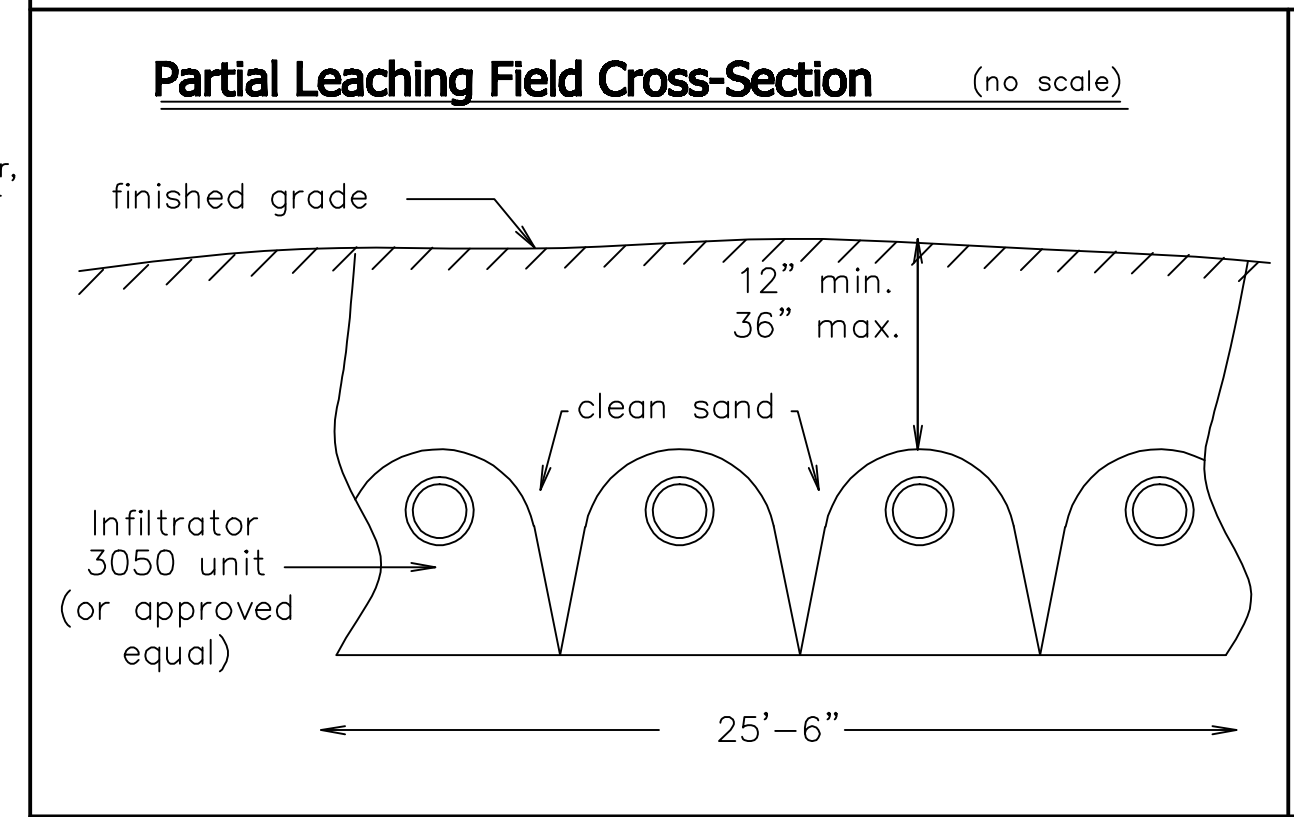
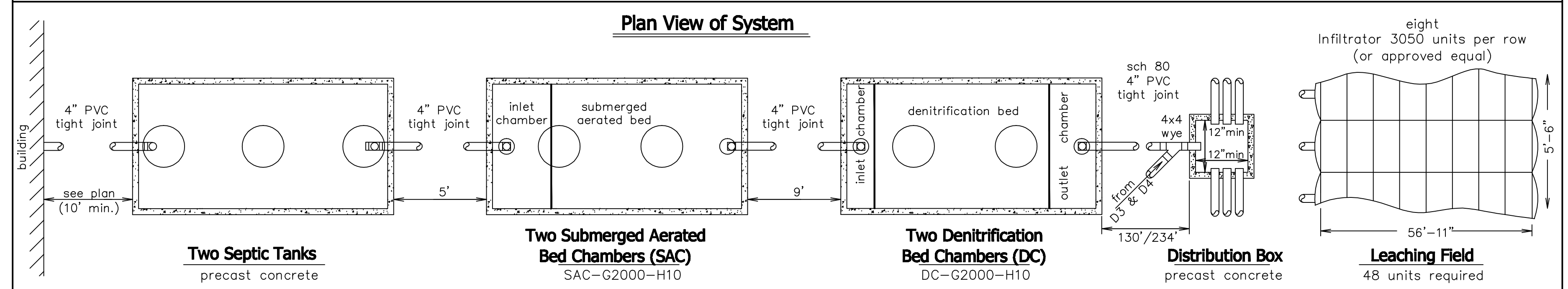
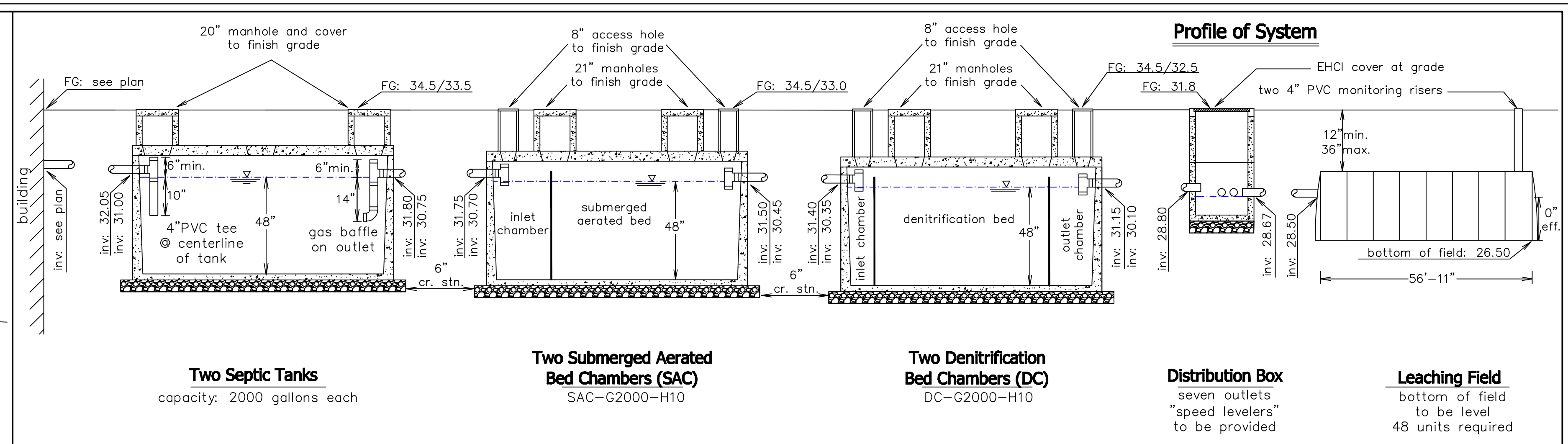
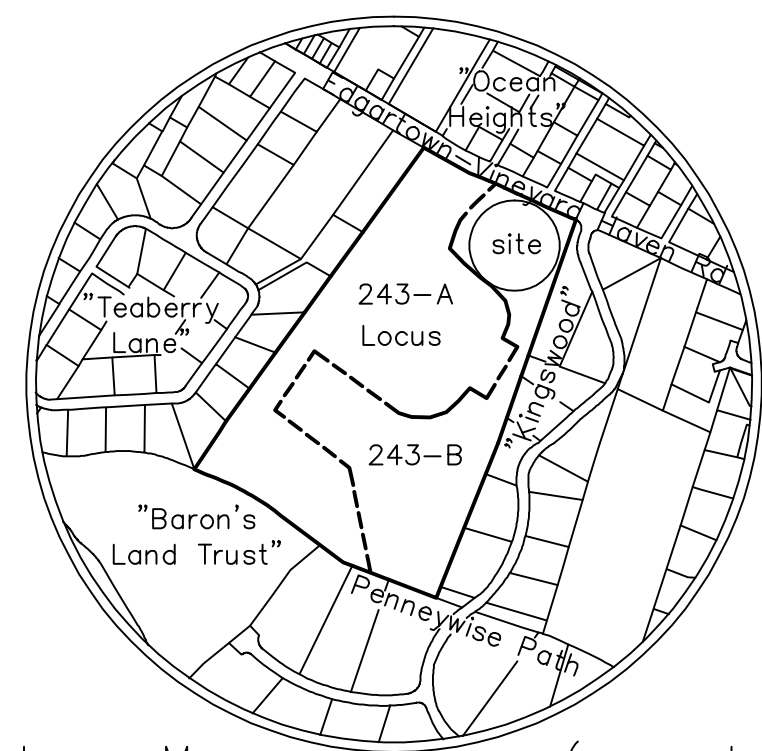


#### General Notes

- Elevations refer to an Mean Sea Level Datum (NAVD88). See bench mark on plot plan located on traverse spike (elevation: 31.91)
- Finished grading to be done in accordance with plot plan.
- All construction to conform to Title V and Edgartown Board of Health requirements, including covers.
- Septic tank, NITROE tanks, and distribution box shall be watertight after construction, including covers.
- 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.
- For proper performance, the septic tank should be inspected at least once a year and pumped when the total depth of scum and solids exceed 1/3 the liquid depth of the tank.
- EHCI distribution box cover to be brought to finish grade
- 4" PVC lines to be sleeved within 20' of continuous 6" PVC pipe centered on water line crossings

#### Project Notes

- Design engineer to inspect excavation of leaching facility at time of construction
- An Operation and Maintenance contract for the NITROE system shall be signed and a copy shall be filed with the Edgartown Board of Health
- Distribution Box to be designed and constructed to handle H-20 loading
- All lines run below roadway to be Schedule 80 PVC
- Locus lies "North and East of the Edgartown Groundwater Divide"  
A variance from Section 2.32 of the Edgartown Board of Health Regulations is required:  
56 bedrooms allowed on 12.57 acres  
76 bedrooms proposed  
(76-56)/56 = 35.7% overage
- Design engineer to inspect excavation of leaching field at time of construction



### Design Data

- Estimated Hydraulic Loading:  
Sixteen bedrooms @ 110 GPD/bedroom = 1,760 GPD  
Garbage disposals are NOT allowed with this design
- Septic Tank Size:  
Required septic tank capacities: 880/800 GPD x 200% = 1720/1720 gallons (min)  
Septic tanks provided: two tanks at 2000 gallons each
- Design percolation rate: 5 MPI  
Soil textural class: I  
Loading rate: 0.74 GPD/SF (effective)
- Leaching Area:  
Effective leaching area: 48 units x 30.24 SF/unit = 1,451 SF
- Maximum Allowable Loading:  
1,451 SF x 1.67 (chamber General Permit) x 0.74 GPD/SF = 1,793 GPD  
Actual hydraulic loading: 1,760 GPD

### Schedule of Elevations

	D1	D2	D3	D4	
Top of foundation:	35.50	35.00	34.50	34.00	finished grade above structure
Basement floor:	n/a	n/a	n/a	n/a	see plan
Inverts at foundation:	32.55	32.35	31.50	31.40	finished grade above structure
Invert at septic tank inlet:	32.05	31.00			
Invert at septic tank outlet:	31.80	30.75	34.5	33.5	
Invert at SAB chamber inlet:	31.75	30.70			
Invert at SAB chamber outlet:	31.50	30.45	34.5	33.0	
Invert at DB chamber inlet:	31.40	30.35			
Invert at DB chamber outlet:	31.15	30.10	34.5	32.5	
Invert at distribution box inlet:					28.80
Invert at distribution box outlet:					28.63, 31.8
Invert at Infiltrator 3050 unit inlet:					28.50
Elevation of field bottom:					26.50

Test Pit PE-TP-1 (Surface Elevation: 31.1)				Test Pit PE-TP-2 (Surface Elevation: 31.4)				Percolation Test Data				
Date of Test:	June 8, 2020			Date of Test:	June 8, 2020			test pit #	date	top of 12" of water depth from top of pit	elevation	rate: (mpi)
Depth	Horiz.	Soil Description	Depth	Horiz.	Soil Description	test pit #	date	top of 12" of water depth from top of pit	elevation	rate: (mpi)		
0"-9"	A	Organics and Sandy Loam	0"-12"	A	Organics and Sandy Loam	PE-TP-1	6/8/22	36"	28.1	<5		
9"-33"	B	Loamy SAND	12"-28"	B	Loamy SAND	PE-TP-2	6/8/22	36"	28.4	<5		
33"-128"	C	Medium Sand with trace Silt	28"-133"	C	Medium Sand							

Groundwater was not encountered at a depth of 128" (elevation: 20.4)

Groundwater was not encountered at a depth of 133" (elevation: 20.3)

### Legend

- XXI--- Denotes proposed contour
- FG: XX.X Denotes proposed finished grade
- XX--- Denotes existing contour
- ⊙ Denotes test hole location
- PVC Denotes polyvinyl chloride pipe, Sch. 40, unless noted
- ⊞ Denotes catch basin
- EHCI Denotes extra heavy cast iron
- ⊕ Denotes parking area
- ⊞ Denotes sub-surface drainage disposal

### PRELIMINARY Proposed Sewage Disposal System

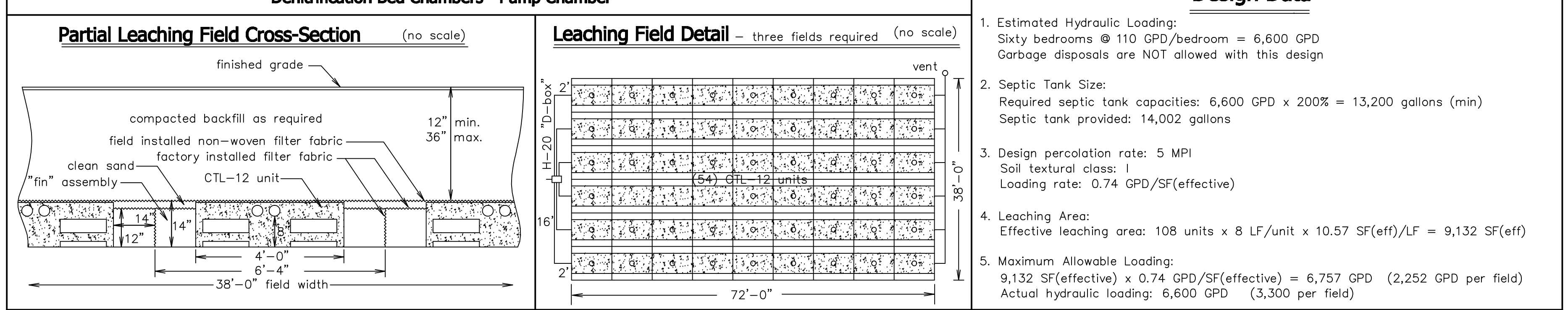
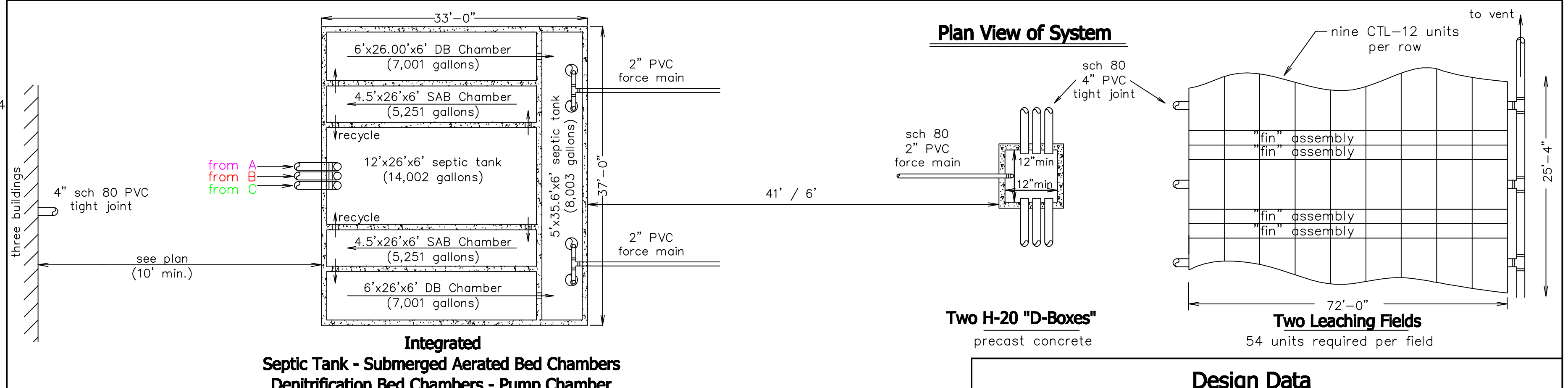
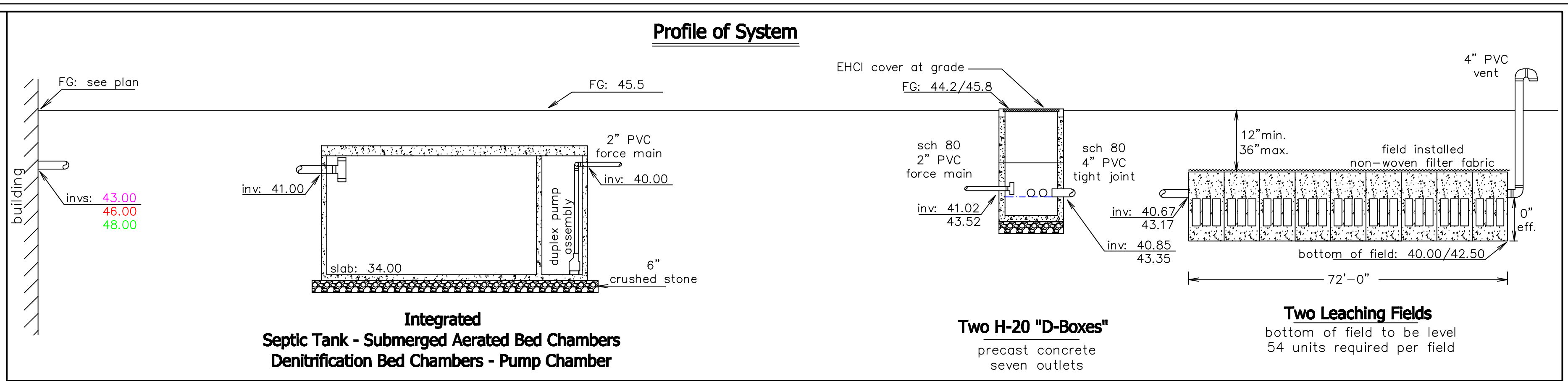
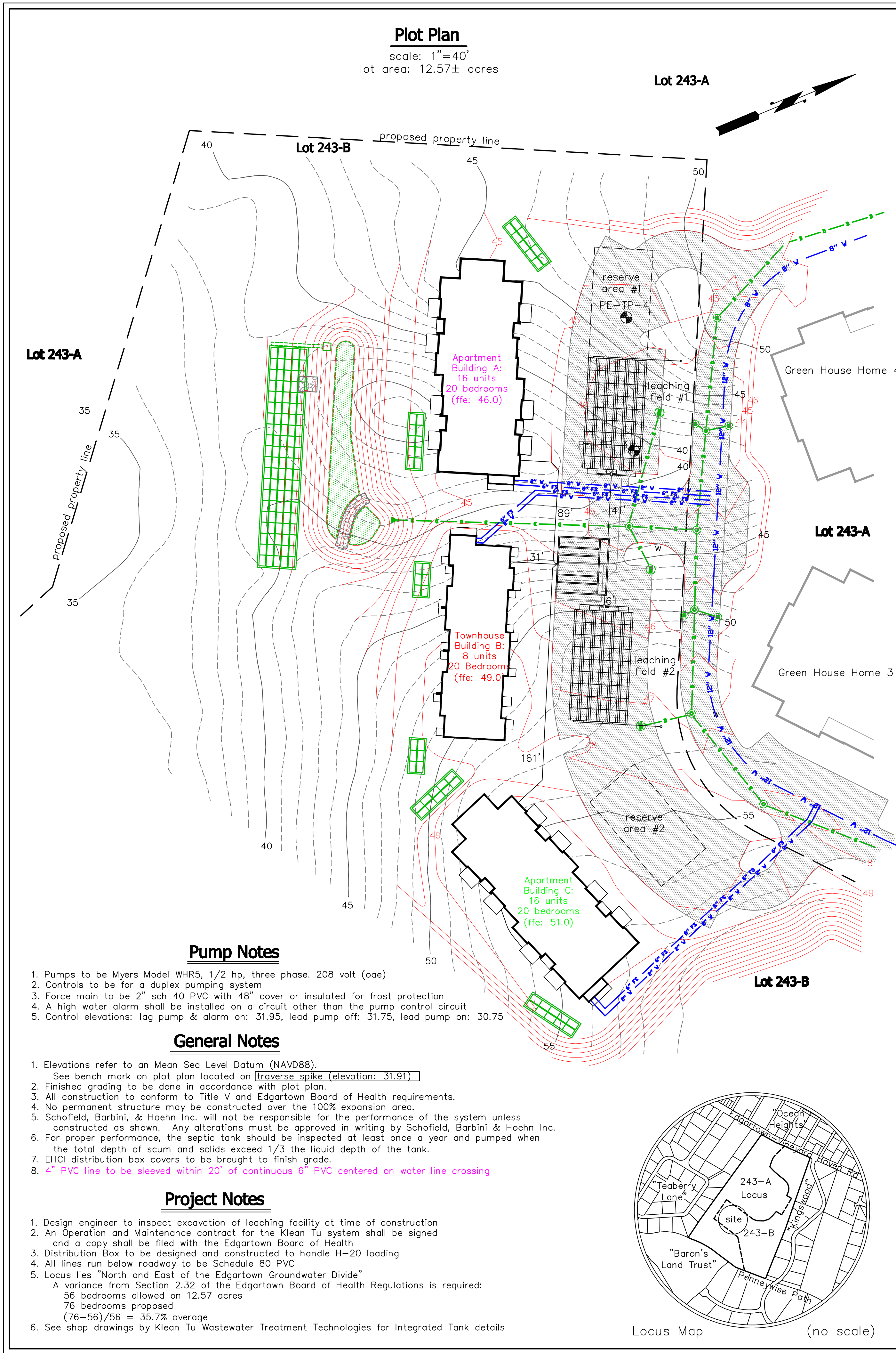
To Serve Eight Proposed Duplex Dwelling Units at Two Bedrooms per Unit = Sixteen Bedrooms Total (60 Additional Bedrooms Proposed on Locus) part of 490 Edgartown-Vineyard Haven Road Assessor's Parcel 11B-243 (Lot 243-B) Edgartown, Massachusetts

Applicant: The Martha's Vineyard Hospital Phone: (508) 693-2781  
c/o Schofield, Barbini, & Hoehn, Inc.  
PO Box 339  
Vineyard Haven, MA 02568

Date: August 25, 2022  
designed by: CPA drawn by: CPA checked by: CHD  
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 11579-D





### Schedule of Elevations

	A	B	C	finished grade
First floor elevation:	46.00	49.00	51.00	
Basement floor:	n/a	n/a	n/a	A B C
Inverts at foundation:	43.00	46.00	48.00	44.5 47.5 50.0
Invert at septic tank inlet:	41.00			
Invert at septic tank outlet:	40.75			
Invert at SAB chamber inlet:	40.75			
Invert at SAB chamber outlet:	40.50			
Invert at DB chamber inlet:	40.50			
Invert at DB chamber outlet:	40.25			
Invert at pump chamber inlet:		40.25		
Invert at pump chamber outlet:		40.00	45.5	
Invert at secondary distribution box inlet:		#1 #2	#1 #2	
Invert at secondary distribution box outlet:		41.02 43.52	44.2 45.8	
Invert at Cur-Tech CTL-12 inlet:		40.67 43.17		
Elevation of field bottom:		40.00 42.50		

Test Pit PE-TP-3 (Surface Elevation: 39.4)				Test Pit PE-TP-4 (Surface Elevation: 46.6)				Percolation Test Data				
Date of Test: June 8, 2020				Date of Test: June 8, 2020								
Depth	Horiz.	Soil Description		Depth	Horiz.	Soil Description		test pit #	date	top of 12" of water depth from top of pit	elevation	rate: (mpi)
0"-14"	A	Organics and Sandy Loam		0"-14"	A	Organics and Sandy Loam		PE-TP-3	6/8/22	36"	36.4	<5
14"-35"	B	Loamy SAND		14"-36"	B	Loamy SAND		PE-TP-4	6/8/22	36"	43.3	<5
35"-44"	C1	Medium Sand with trace Silt and Gravel		36"-46"	C1	Medium Sand with trace Silt						
44"-142"	C2	Medium SAND		46"-130"	C2	Medium SAND						
Groundwater was not encountered at a depth of 142" (elevation: 27.5)				Groundwater was not encountered at a depth of 130" (elevation: 35.7)								

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MV 11579-AT