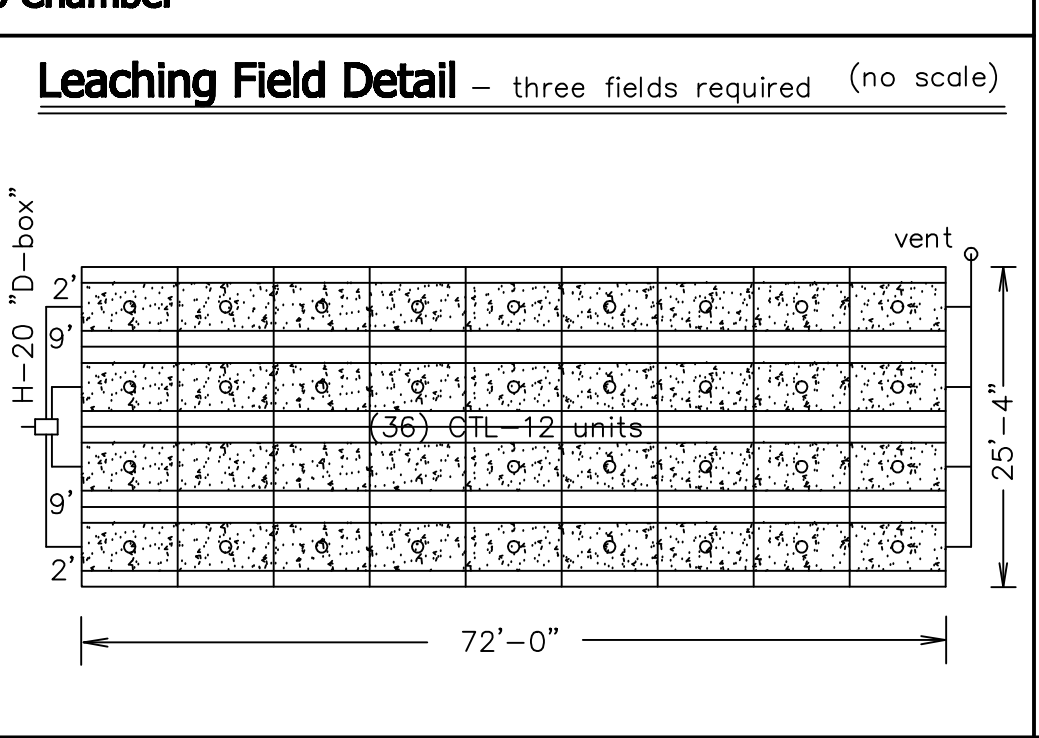
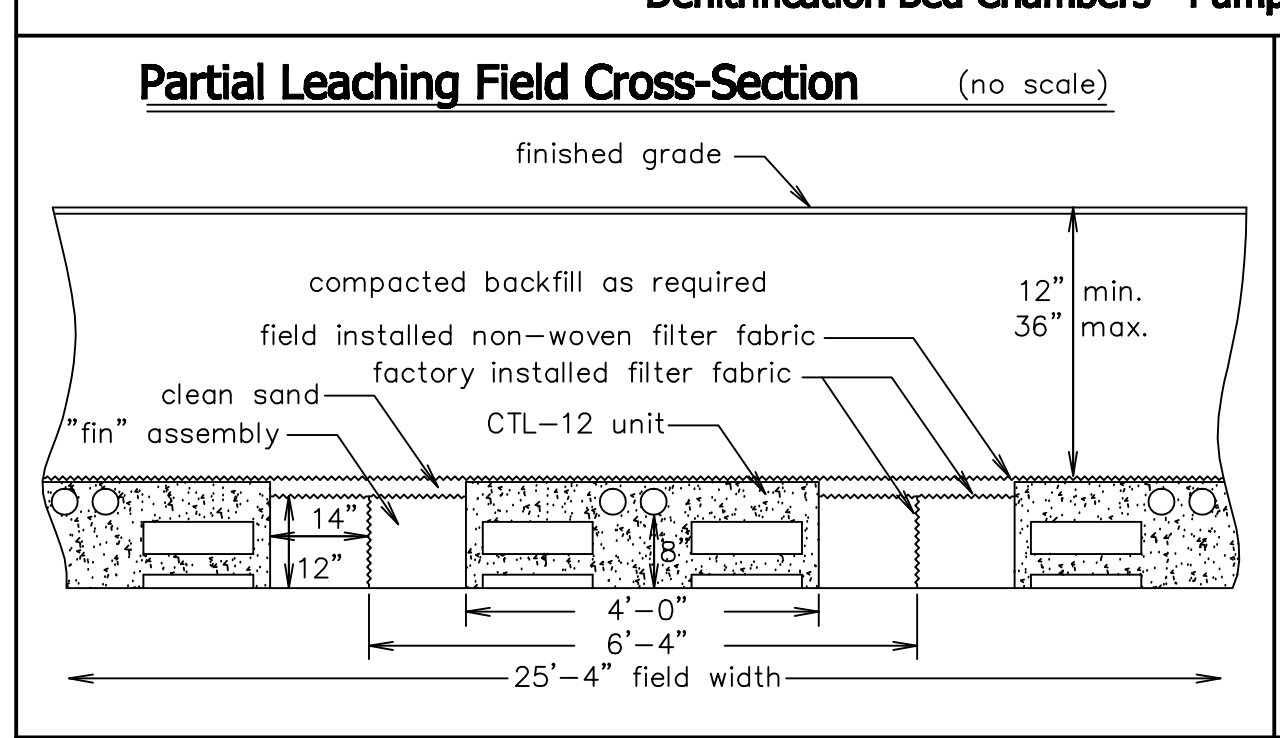
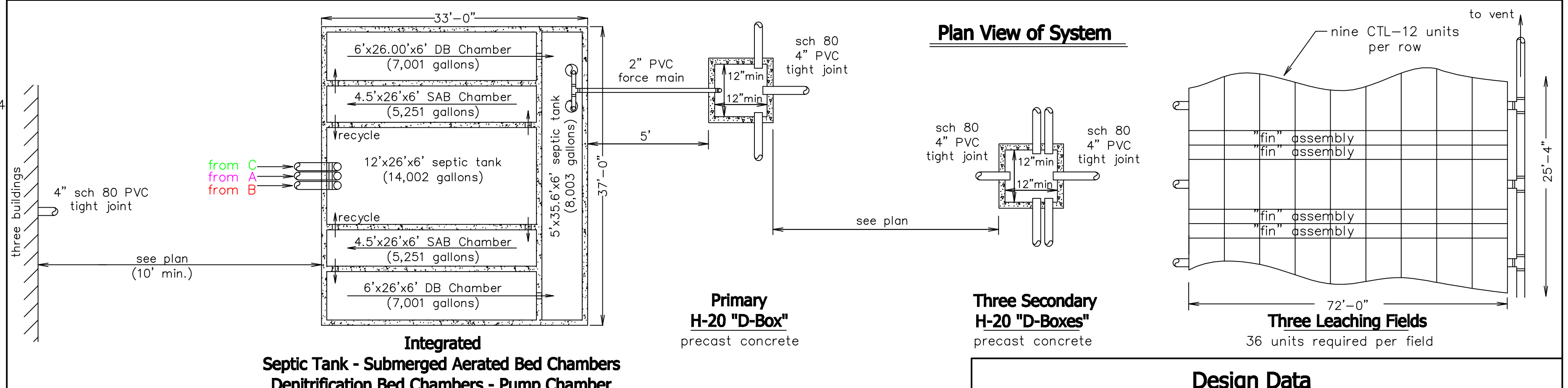
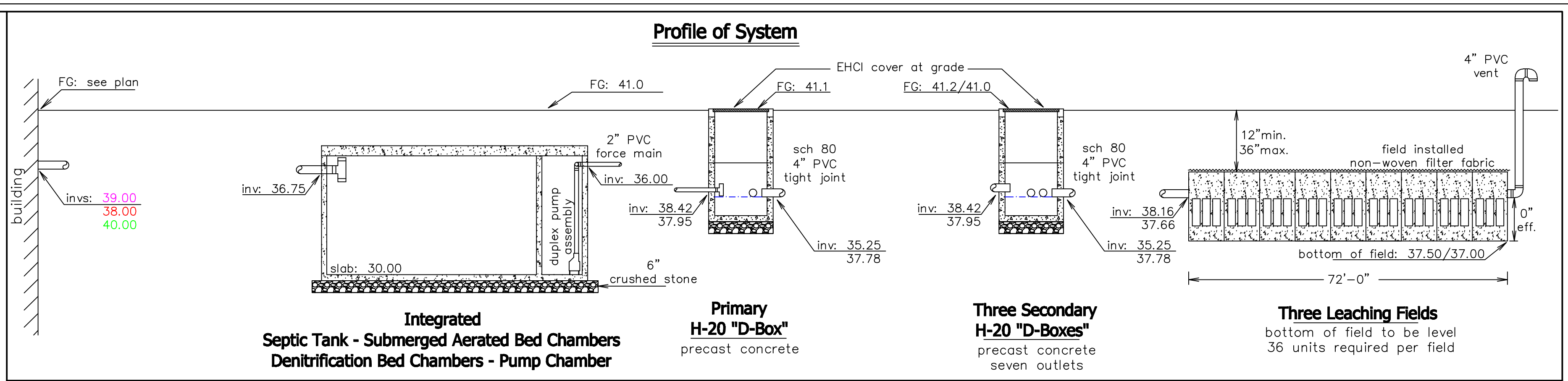
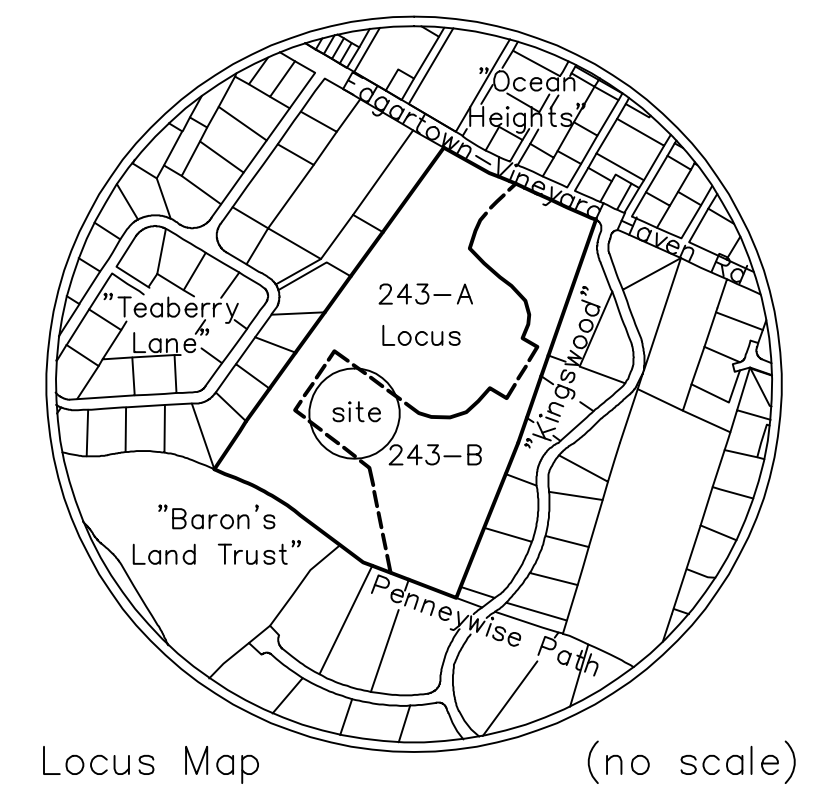


- #### Pump Notes
- Pumps to be Myers Model WHR5, 1/2 hp, three phase, 208 volt (oae)
 - Controls to be for a duplex pumping system
 - Force main to be 2" sch 40 PVC with 48" cover or insulated for frost protection
 - A high water alarm shall be installed on a circuit other than the pump control circuit
 - Control elevations: lag pump & alarm on: 31.95, lead pump off: 31.75, lead pump on: 30.75

- #### 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.
 - EHCI distribution box covers to be brought to finish grade.
 - 4" PVC line to be sleeved within 20' of continuous 6" PVC centered on water line crossing

- #### Project Notes
- Design engineer to inspect excavation of leaching facility at time of construction
 - An Operation and Maintenance contract for the Klean 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:
56 bedrooms allowed on 12.57 acres
76 bedrooms proposed
(76-56)/56 = 35.7% overage
 - See shop drawings by Klean Tu Wastewater Treatment Technologies for Integrated Tank details



Schedule of Elevations

	A	B	C	finished grade
First floor elevation:	44.00	43.00	44.00	
Basement floor:	n/a	n/a	n/a	
Inverts at foundation:	39.00	38.00	40.00	42.5 41.5 42.5
Invert at septic tank inlet:	36.75			
Invert at septic tank outlet:	36.50			
Invert at SAB chamber inlet:	36.50			
Invert at SAB chamber outlet:	36.25			
Invert at DB chamber inlet:	36.25			
Invert at DB chamber outlet:	36.00			
Invert at primary pump chamber inlet:		36.00		
Invert at primary pump chamber outlet:		36.00	41.1	
Invert at primary distribution box inlet:		38.82		
Invert at primary distribution outlet:		38.65	41.0	
Invert at secondary distribution box inlet:		38.42	37.95	
Invert at secondary distribution box outlet:		38.25	37.78	41.2 41.0
Invert at Cur-Tech CTL-12 inlet:		38.17	37.67	
Elevation of field bottom:		37.50	37.00	

Test Pit PE-TP-3 (Surface Elevation: 39.4)

Depth	Horiz.	Soil Description
0"-14"	A	Organics and Sandy Loam
14"-35"	B	Loamy SAND
35"-44"	C1	Medium Sand with trace Silt and Gravel
44"-142"	C2	Medium SAND

Test Pit PE-TP-4 (Surface Elevation: 46.6)

Depth	Horiz.	Soil Description
0"-14"	A	Organics and Sandy Loam
14"-36"	B	Loamy SAND
36"-46"	C1	Medium Sand with trace Silt
46"-130"	C2	Medium SAND

Percolation Test Data

test pit #	date	top of 12" of water depth from top of pit	elevation	rate: (mpi)
PE-TP-3	6/8/22	36"	36.4	<5
PE-TP-4	6/8/22	36"	43.3	<5

- ### Design Data
- Estimated Hydraulic Loading:
Sixty bedrooms @ 110 GPD/bedroom = 6,600 GPD
Garbage disposals are NOT allowed with this design
 - Septic Tank Size:
Required septic tank capacities: 6,600 GPD x 200% = 13,200 gallons (min)
Septic tank provided: 14,002 gallons
 - Design percolation rate: 5 MPI
Soil textural class: I
Loading rate: 0.74 GPD/SF(effective)
 - Leaching Area:
Effective leaching area: 108 units x 8 LF/unit x 10.57 SF(eff)/LF = 9,132 SF(eff)
 - Maximum Allowable Loading:
9,132 SF(effective) x 0.74 GPD/SF(effective) = 6,757 GPD (2,252 GPD per field)
Actual hydraulic loading: 6,600 GPD (2,200 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

Proposed Sewage Disposal System

To Serve Forty Proposed Workforce Housing Units Within Three Structures; Sixty Bedrooms Total (16 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: April 29, 2022
designed by: CPA drawn by: CPA checked by: CHD

Schofield, Barbini & Hoehn, Inc.
Land Surveying Civil Engineering

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MV 11579-AT

