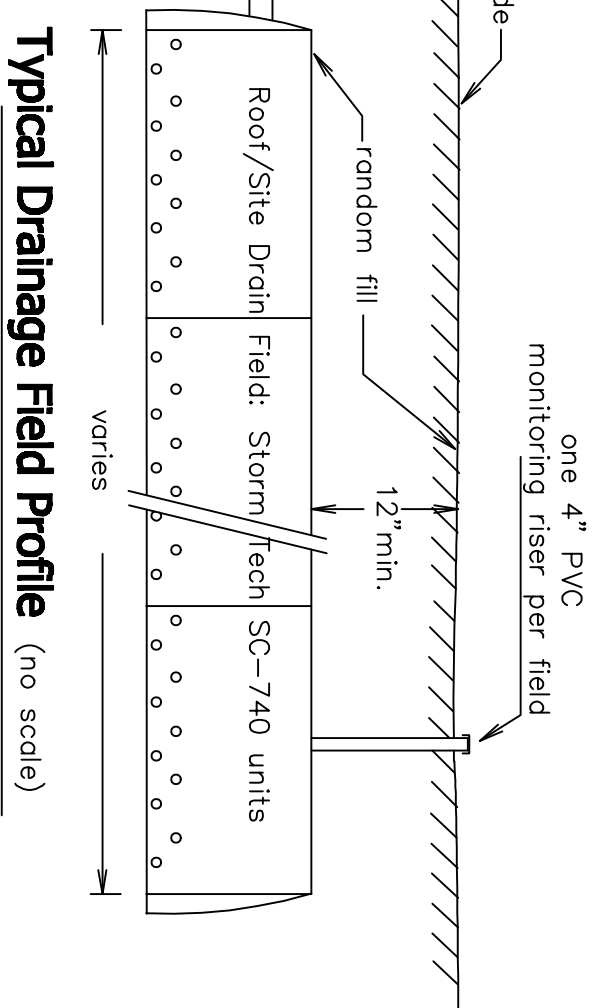


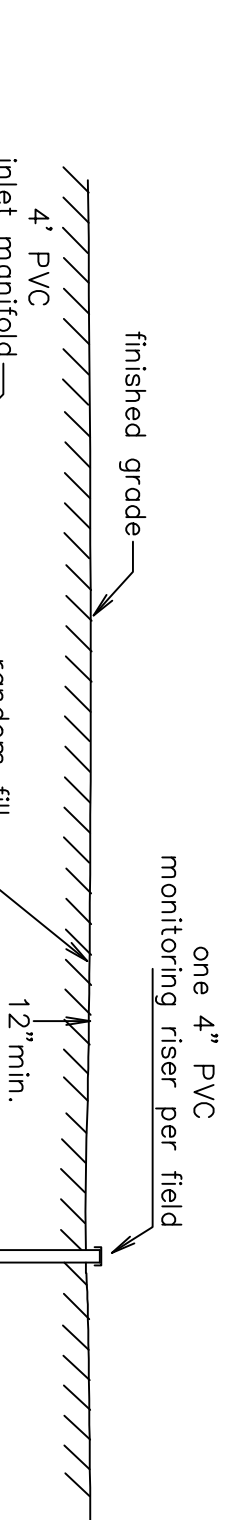
Drainage Notes

- Stormtech SC-740 units to be set on excavated grade of a minimum of 5' below grade
- Engineer to inspect excavation of drainage fields prior to placement of units
- Downports to discharge to drainage fields through 4" PVC or ADS pipe laid at 1% minimum slope toward field
- A tee extending 10" below the flow line shall be provided at the catch basin outlet
- Catch basin to be designed and constructed to handle H-20 loading

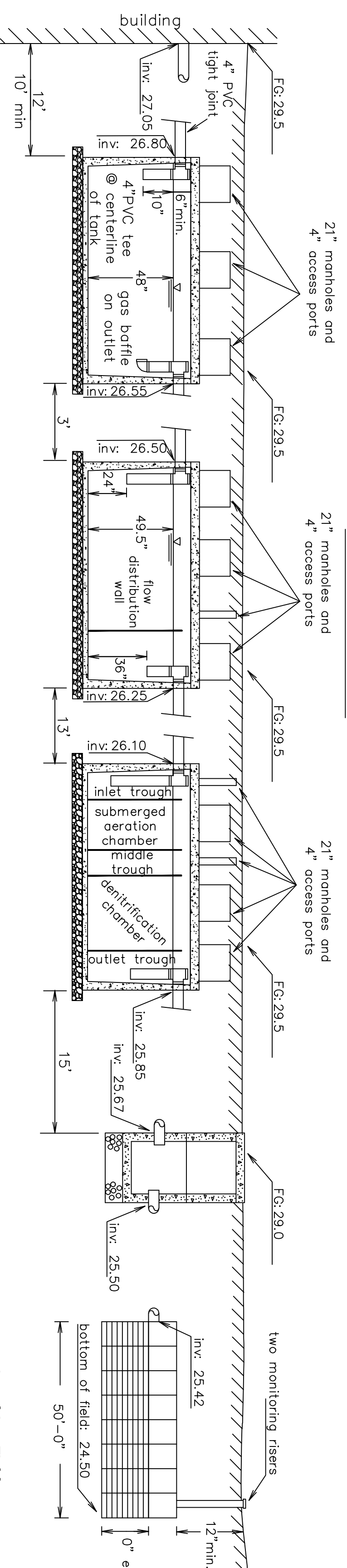


EHQI frame and grate at grade

1-1/2" layer of 1/2" to 1/2" crushed stone on Miraflo 140N filter fabric



Profile of System



Septic Tank

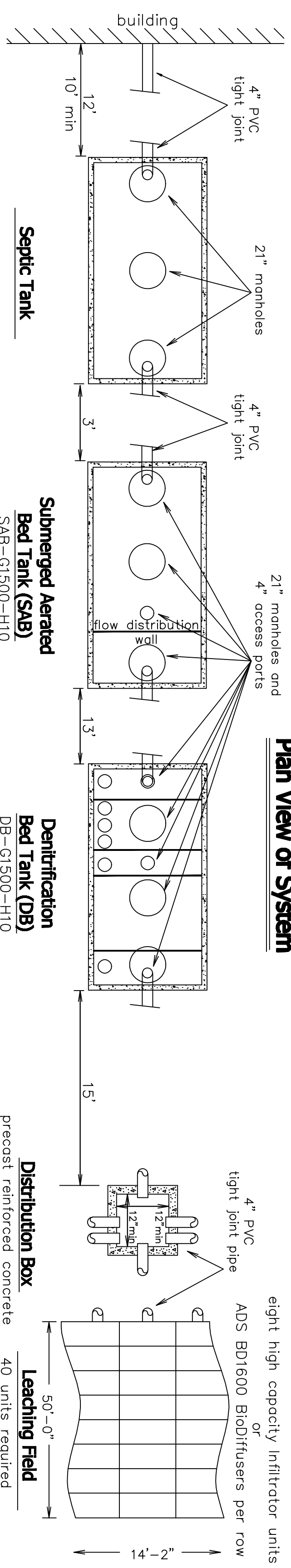
Submerged Aerated Bed Tank (SAB)
SAB-G1500-H10

Denitrification Bed Tank (DB)
DB-G1500-H10

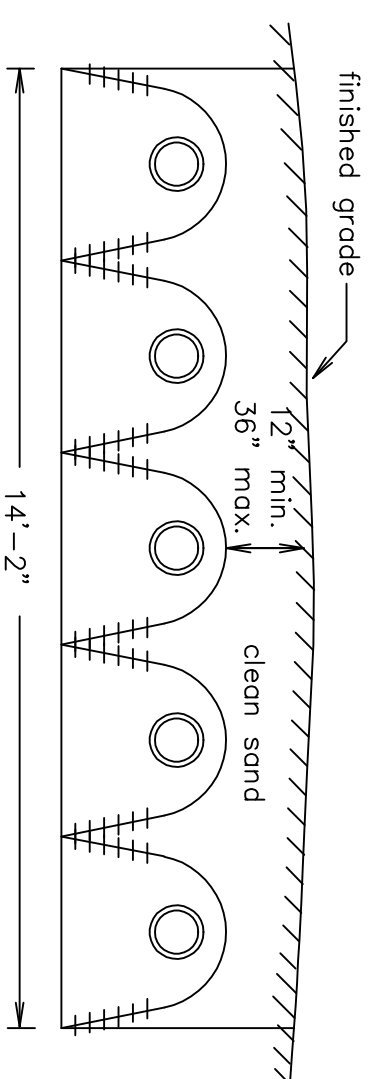
Distribution Box

Leaching Field

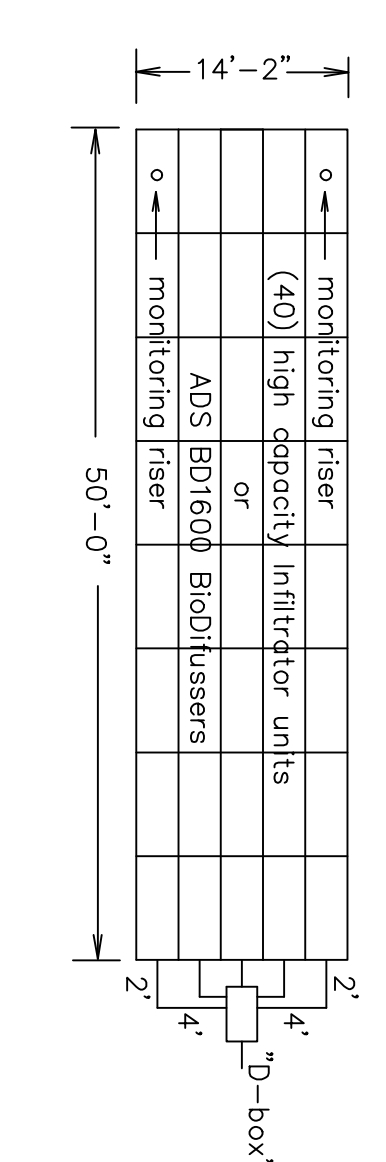
Plan View of System



Typical Leaching Field Cross-Section (no scale)



Leaching Field Detail (no scale)



Design Data

- Estimated, Hydraulic Loading: Five units at 110 gallons per day per bedroom = 550 GPD. Garbage disposal is not allowed with this design.
- Septic Tank Size: Required tank capacity: 550 x 200% = 1100 (minimum). Septic tank provided: 1500 gallon MicroFASST 0.9 tank.
- Design percolation rate: 2 MPd. Soil textural class: I. Loading rate: 0.74 GPD/SF.
- Leaching Area: Total leaching area provided: 708 SF.
- Maximum Allowable Loading: 708 SF x 1.67 (chamber general permits) x 0.74 GPD/SF = 874 GPD. Actual hydraulic loading: 550 GPD.

Schedule of Elevations

Location	Elevation	Location	Elevation
Top of foundation:	30.50 (verify w/ arch's)	finished grade above structure	
Basement floor:	n/a (slab)	Invert at NIROE DB tank inlet:	26.10
Inverts of foundation:	27.05	Invert at NIROE DB tank outlet:	25.85
		Invert at septic tank inlet:	26.80
		Invert at septic tank outlet:	26.55
		Invert at distribution box inlet:	25.87
		Invert at distribution box outlet:	25.50
		Invert at infiltrator inlet:	25.42
		Invert at field bottom:	24.50

Deep Test Pit 1 (Surface Elevation: 26.7)

Deep Test Pit 2 (Surface Elevation: 29.5)

Depth	Soil Description	Depth	Soil Description
0"-11"	A Loamy SAND	0"-7"	A Loamy SAND
11"-34"	B Loamy SAND	7"-33"	B Loamy SAND
34"-132"	C SAND	33"-120"	C SAND

Percolation Test Data

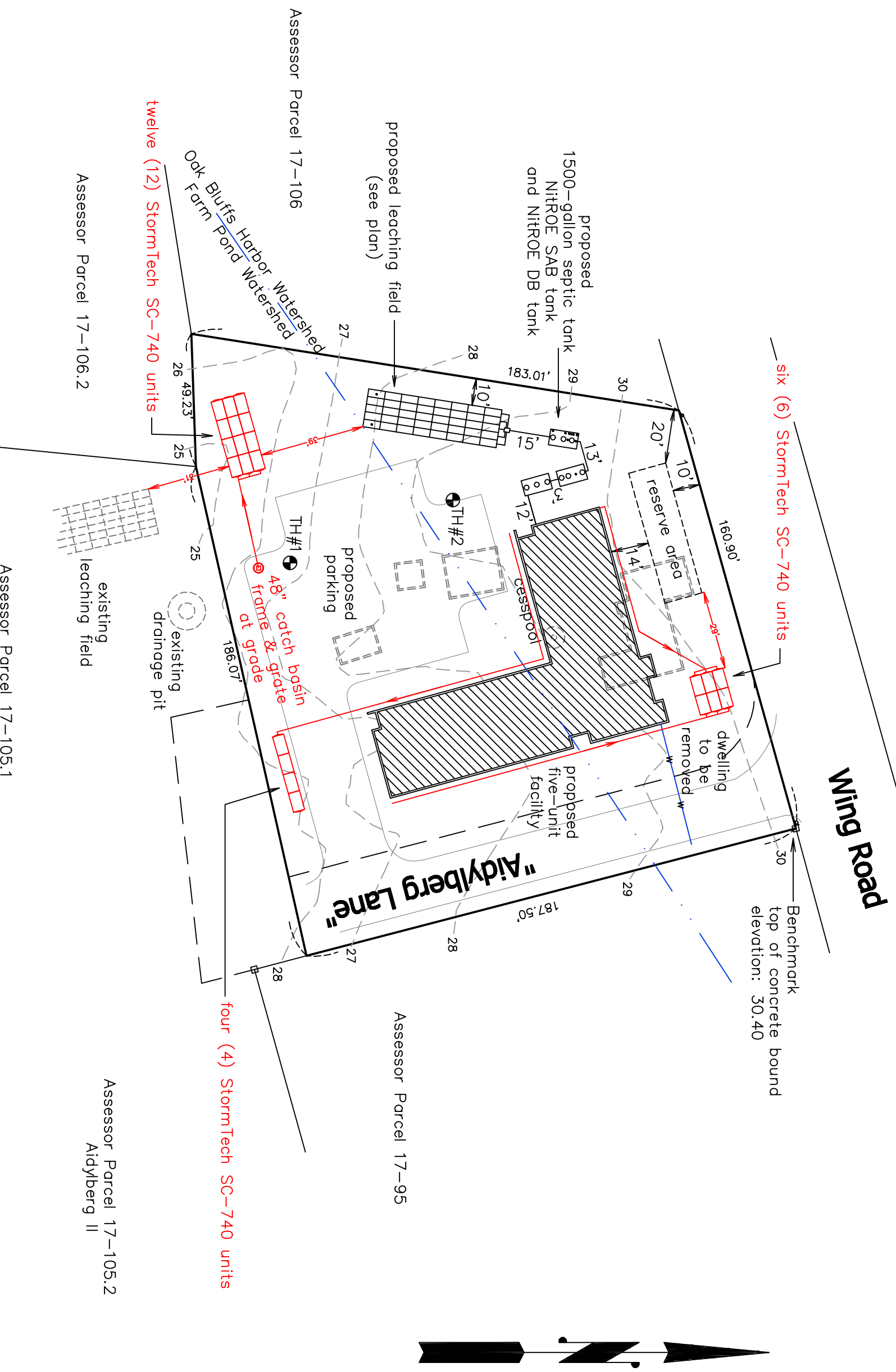
test pit #	date	top of 12" of water depth from top of pit	elevation	rate (mpd)
1	3/6/19	36"	23.7	<2
2	3/6/19	36"	26.5	<2

General Notes

- Elevations refer to approximate mean sea level datum. See bench mark on plot plan located on top of concrete bound (elevation: 30.40)
- 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, Borhini & Hoehn Inc. will not be responsible for the performance of the system unless parameters are noted in writing. Any alterations must be approved in writing by Schofield, Borhini & 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.

Plot Plan

scale: 1"=40'
lot area: 36,182± sq ft



Project Notes

- No wells were found within 100' of the proposed leaching facility
 - Existing cesspool to be abandoned, crushed and backfilled with compacted structural fill
 - Underground utilities to be located at start of construction and relocated as required
- Zone II Notes:**
Locus lies within Zone II of the Farm Neck municipal well
Lot area: 36,182 sq ft
Advanced treatment:
Allowable flow with advanced treatment:
600 GPD x (36,182 sq ft/40,000 sq ft) = 537 GPD > 550 GPD OK



Legend

- XX--- Denotes proposed contour
- FG. = XXX Denotes proposed finished grade
- XX Denotes existing contour
- Denotes test hole location
- P.V.C. Denotes polyvinyl chloride pipe, Sch. 40, unless noted
- E.H.C.I. Denotes catch basin
- R Denotes extra heavy cast iron
- W Denotes water service
- ~ Denotes approximate property line
- D Denotes storm drain pipe

Proposed Sewage Disposal System

Aldyberg III
To Serve a Proposed Five-Unit Elderly Housing Facility
38 Wing Road — Assessor Parcel 17-105
Ock Bluffs, Massachusetts

Applicant: Island Elderly Housing
606 Village Road
Ock Bluffs, MA 02557

Phone: (508) 693-2781 (SB&H)

Date: November 6, 2021 revised: Jan 24, 2022 (drainage)
designed by: CPA drawn by: CPA checked by: CH

Schofield, Borhini & Hoehn, Inc.
Civil Engineering

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508-693-2781
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MV 799