

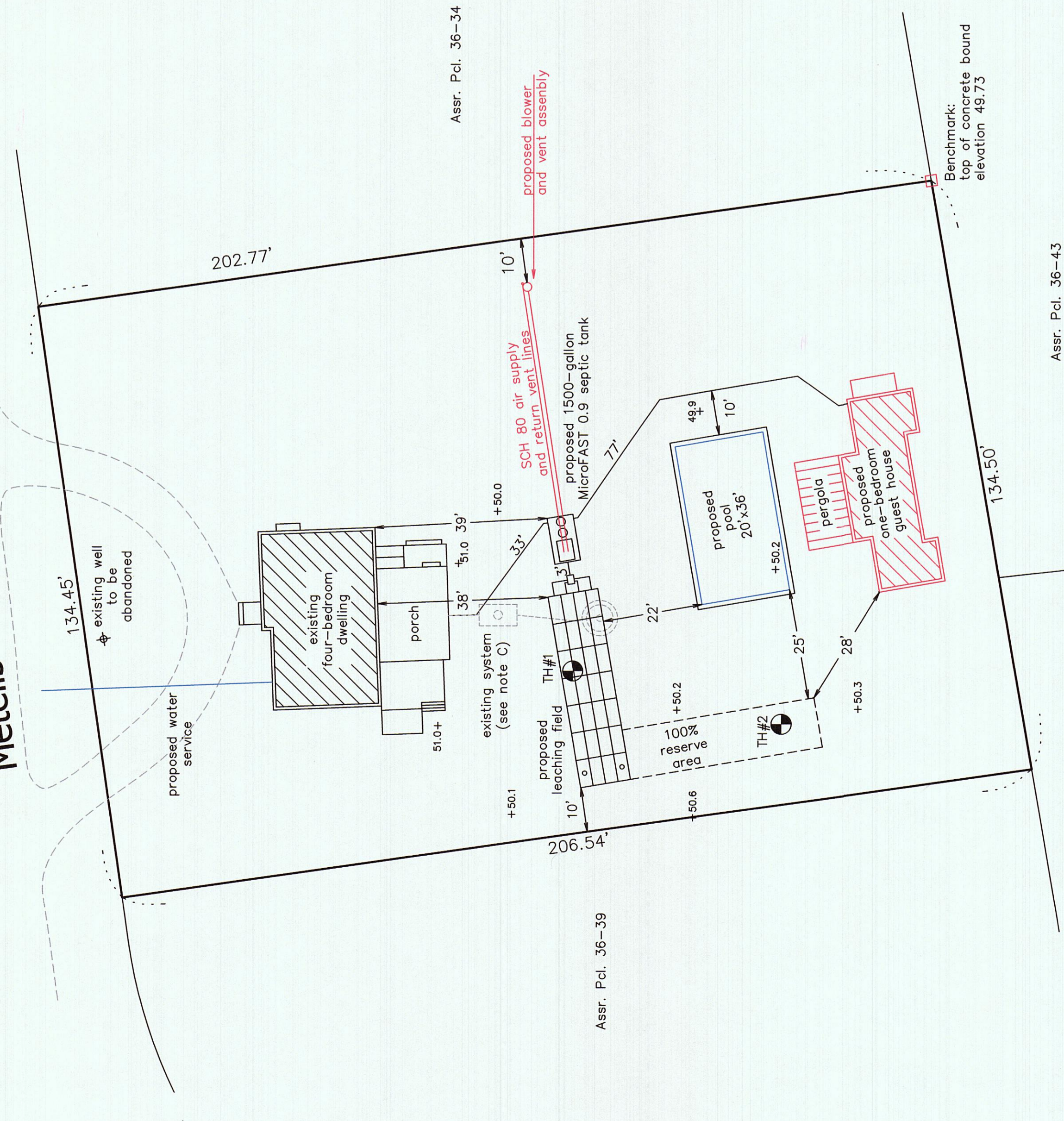
Plot Plan

Scale: 1"=20'

Lot Area: 27,516± sq ft (see note E)

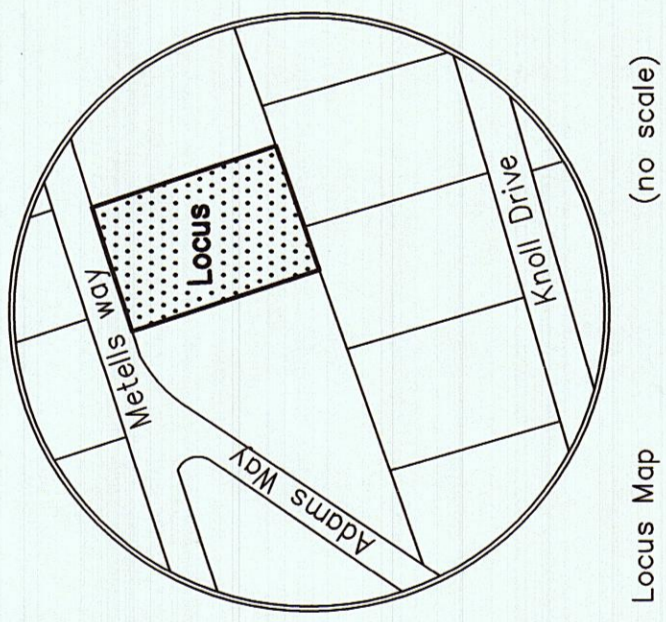


Metells Way



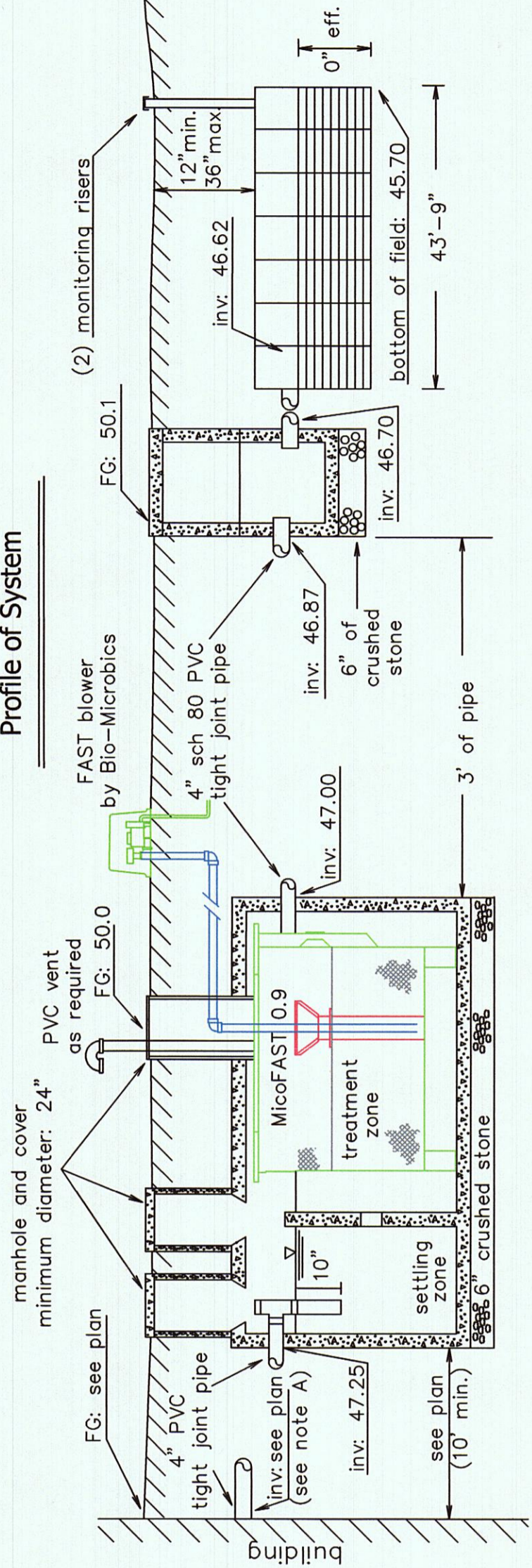
- Notes:
- Existing invert at foundation to be determined at start of construction and reviewed with design engineer
 - Underground utilities to be located at start of construction and relocated as required
 - Existing septic tank to be abandoned, pumped, crushed, and backfilled with clean sand. Existing leaching pit to be to be abandoned, pumped, and excavated. Excavation includes adjacent area to be inspected and backfilled.
 - No wells were found within 100' of the proposed septic tank.
 - A variance from Edgartown Board of Health required for five bedrooms on 27,516 sq. ft. lot North and East of the Edgartown ground water divide

MicroFAST System Notes:
 A. An copy of a signed operation and maintenance contract for the proposed MicroFAST 0.9 system (General Permit) shall be filed with the Edgartown Board of Health prior to release of a Disposal Works Construction Permit
 B. MicroFAST 0.9 unit may be internal or top mounted (internal shown)
 C. MicroFAST blower assembly may be mounted in a sub-grade vault supplied by Bio-Microbics (above grade shown) provided that air supply lines pitch to septic tank at a minimum of 0.5% slope
 D. Contact information for MicroFAST 0.9 system:
 Michael Morreau at J&K Sales and Service
 4100 Main Street
 Raynham, MA 02767



Locus Map (no scale)

Profile of System



MicroFAST 0.9 Septic Tank

capacity: 1500 gallons
 precast reinforced concrete

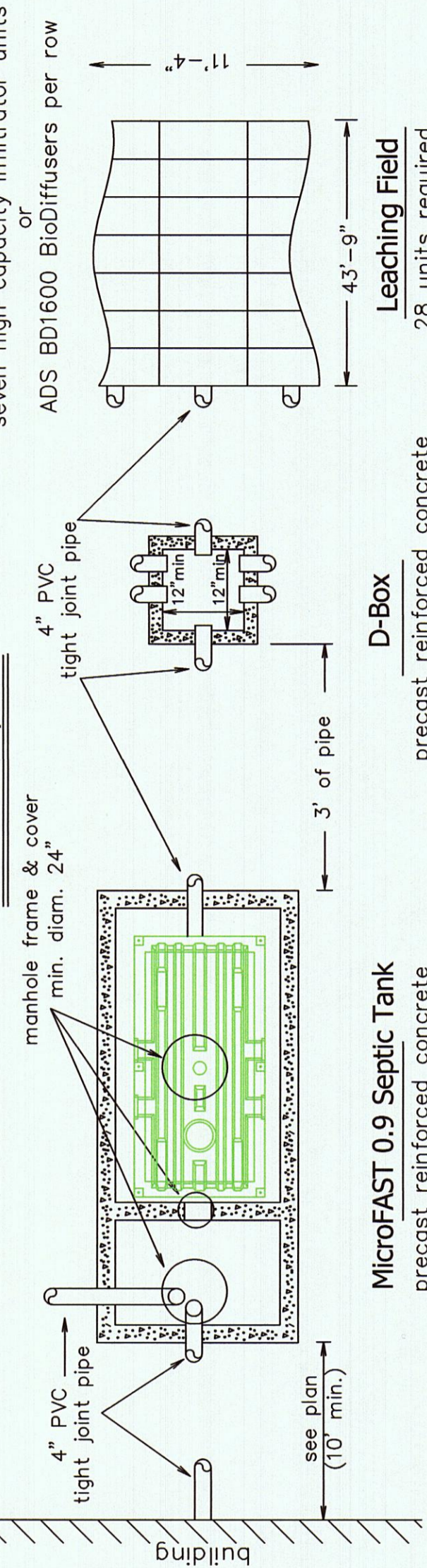
D-Box

five outlets
 "speed levelers" to be provided
 (28 units required)

Leaching Field

bottom of field level
 for entire length
 (28 units required)

Plan View of System



MicroFAST 0.9 Septic Tank

precast reinforced concrete

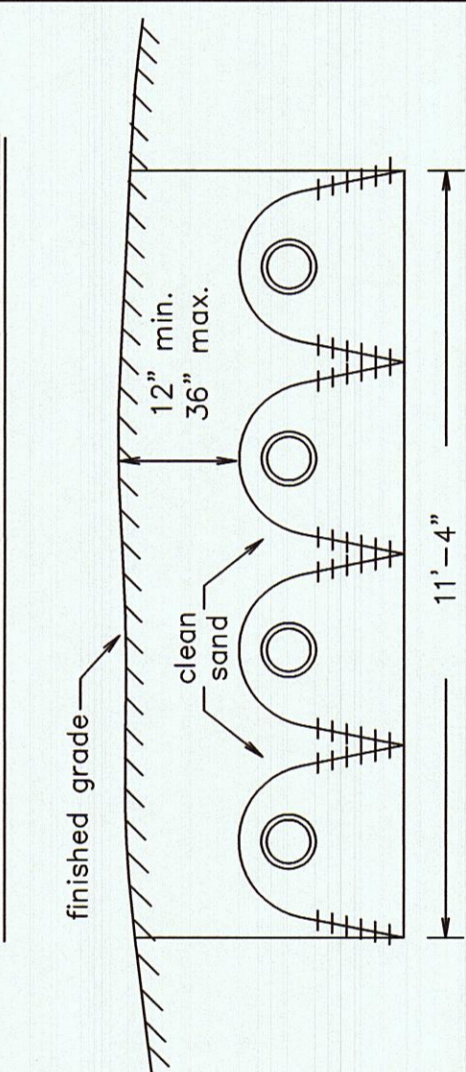
D-Box

precast reinforced concrete

Leaching Field

28 units required

Typical Leaching Field Cross-Section (no scale)



Schedule of Elevations

Top of foundation =	existing/51.00	finished grade above structure
Basement floor =	existing/49.00	
Inverts at foundation =	51.0/50.0	
Invert at septic tank inlet =	47.25	
Invert at septic tank outlet =	47.00	
Invert at distribution box inlet =	46.87	
Invert at distribution box outlet =	46.70	
Invert at infiltrator inlet =	46.62	
Elevation of field bottom =	45.70	
		50.2

Deep Test Pit 1 (Surface Elevation: 50.1)

Date of Test: January 17, 2019

Soil Description

Horizon

Depth

Soil Description

Horizon

Depth

Soil Description

Horizon

Depth

Soil Description

Horizon

Depth

Soil Description

Horizon

Depth

Soil Description

Horizon

Depth

Soil Description

Percolation Test Data

test pit #	date	top of 12" depth from base of pit	top of 12" elevation	rate: (mp)
1	01/17/19	36"	47.1	<2
2	01/17/19	36"	47.3	<2

Groundwater was not encountered at a depth of 126" (elevation: 39.6)

Deep Test Pit 2 (Surface Elevation: 50.3)

Date of Test: January 17, 2019

Soil Description

Horizon

Depth

Soil Description

Horizon

Depth

Soil Description

Horizon

Depth

Soil Description

Horizon

Depth

Soil Description

Horizon

Depth

Soil Description

Horizon

Depth

Soil Description

Groundwater was not encountered at a depth of 114" (elevation: 40.8)

General Notes

- Elevations refer to mean sea level datum (NAVD88). See bench mark on plot plan located on concrete bound (elevation: 49.73)
- 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.
- 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, 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.
- 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.
- Crushed stone to consist of 3/4" to 1-1/2" crushed stone free of organics and other deleterious material compacted to a level surface

Design Data

- Estimated Hydraulic Loading:
 Four and one bedrooms 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 gallons (minimum)
 Septic tank provided: 1500 gallon Fast 0.9
- Design percolation rate: 2 MPD
 Soil textural class:
 Loading rate: 0.74 GPD/SF
 Leaching Area:
 Total leaching area provided: 495 SF
- Maximum Allowable Loading:
 495 SF x 1.67 (chamber general permits) x 0.74 GPD/SF = 611 GPD
 Actual hydraulic loading: 550 GPD

Legend

- XX---
 - F.G. = XX.X
 - XX
 - P.V.C.
 - E.H.C.I.
 - W
 - R
 - O.W.
 - D
- Denotes proposed contour
 Denotes existing 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 water service
 Denotes approximate property line
 Denotes overhead wires
 Denotes storm drain pipe

Proposed Sewage Disposal System

To Serve an Existing Four-Bedroom Dwelling
 And A Proposed One-Bedroom Guest House
 20 Metells Way — Assessor Parcel 36-42
 Edgartown, Massachusetts

Applicant: Ellen & Peter Blommer
 20 Metells Way
 Edgartown, MA 02539
 Ph: 508-693-2781

December 28, 2018 Rev: March 22, 2019 (blower location)
 designed by: JSB drawn by: JSB 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 11609