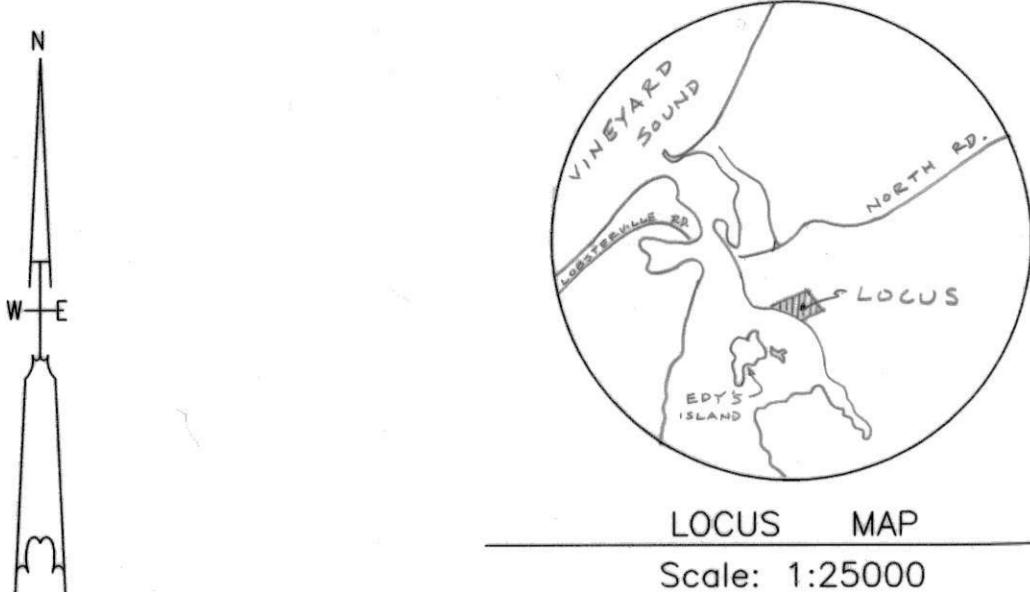


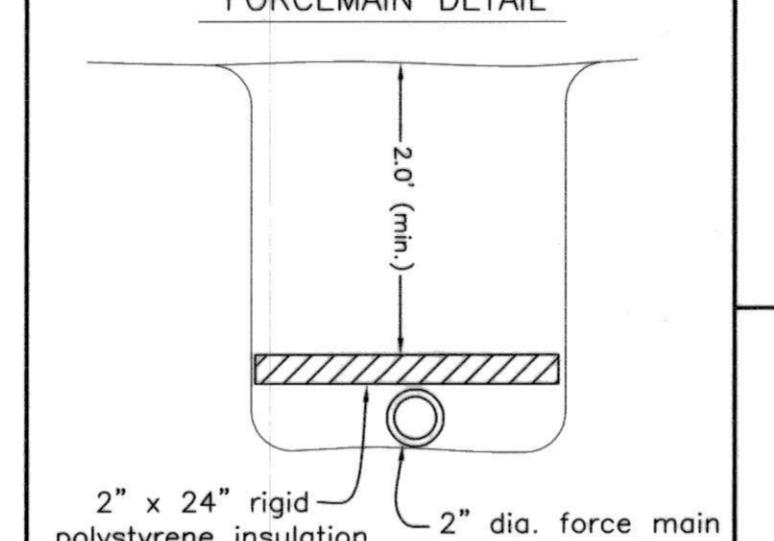
Plan



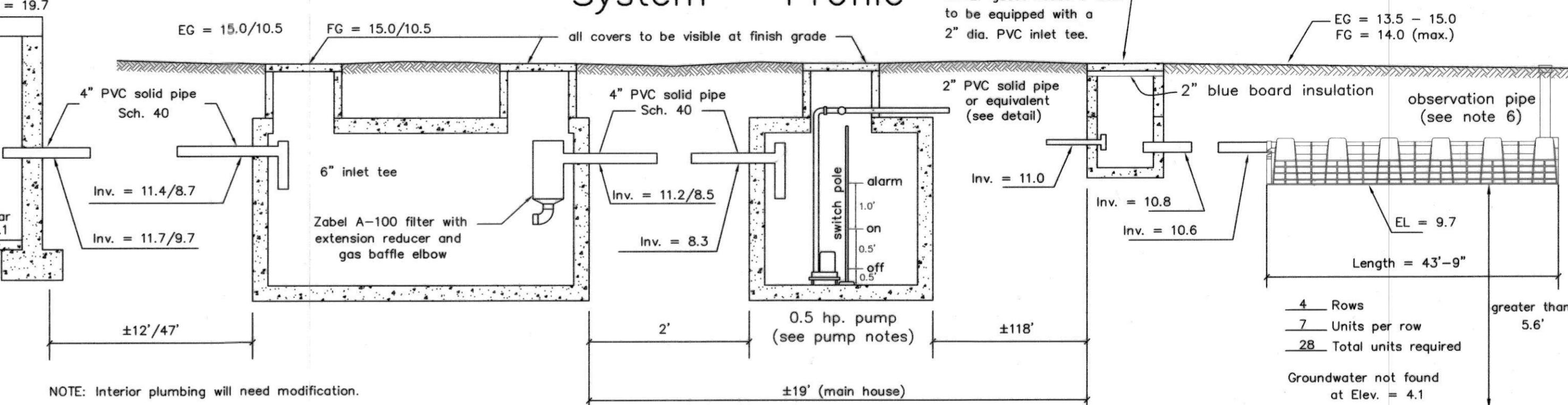
PUMP NOTES

1. An alarm system shall be installed on a separate electrical circuit.
2. The pump shall be capable of pumping 10 gallons per minute at a head of 50 feet.
3. The pump shall be installed directly below the access opening and connected with unions so as to be easily removed without emptying the tank.
4. A spare pump shall be stored on the premises.
5. The force main shall be buried a minimum of 4 ft. below grade. In areas where 4' of depth cannot be achieved, the pipe shall be insulated as shown in the "force main detail".

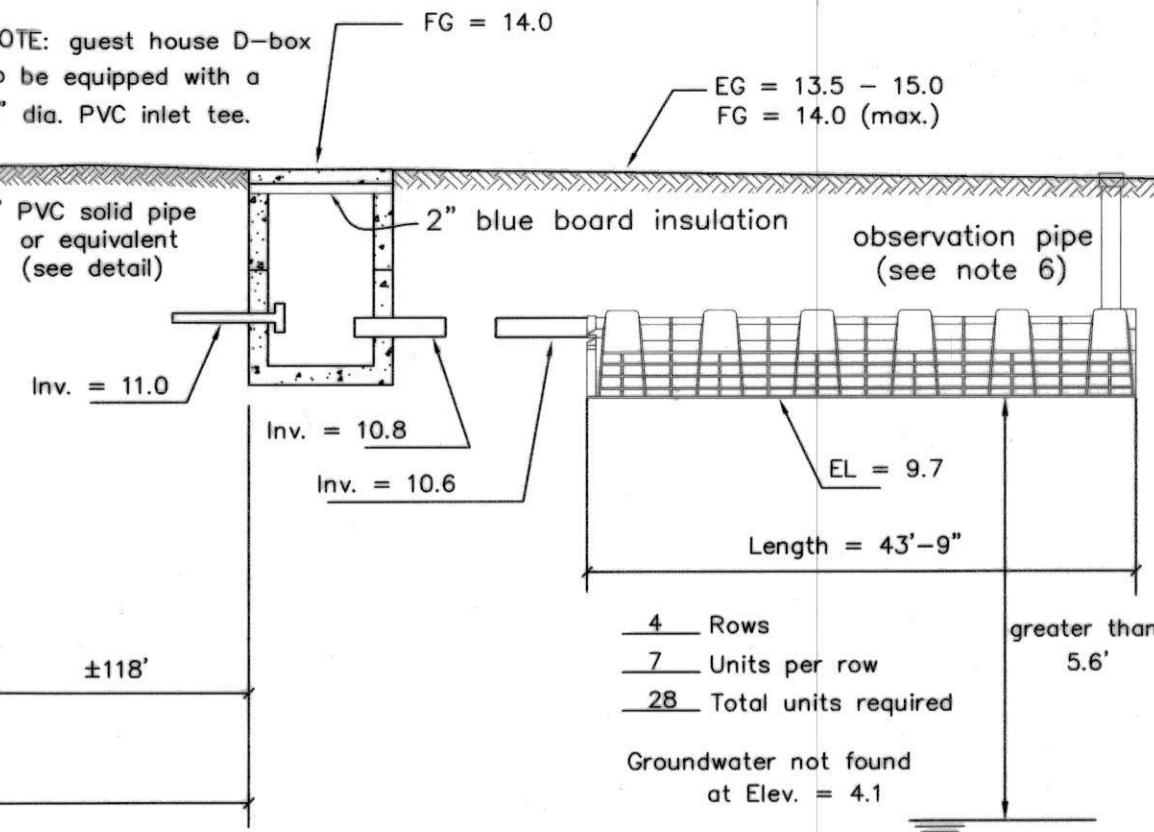
FORCEMAIN DETAIL



NOTE: Elevations and distances refer to House/Guest House respectively.



System Profile



1500 GALLON (H-20)
Septic Tanks (2)
(see note 5)

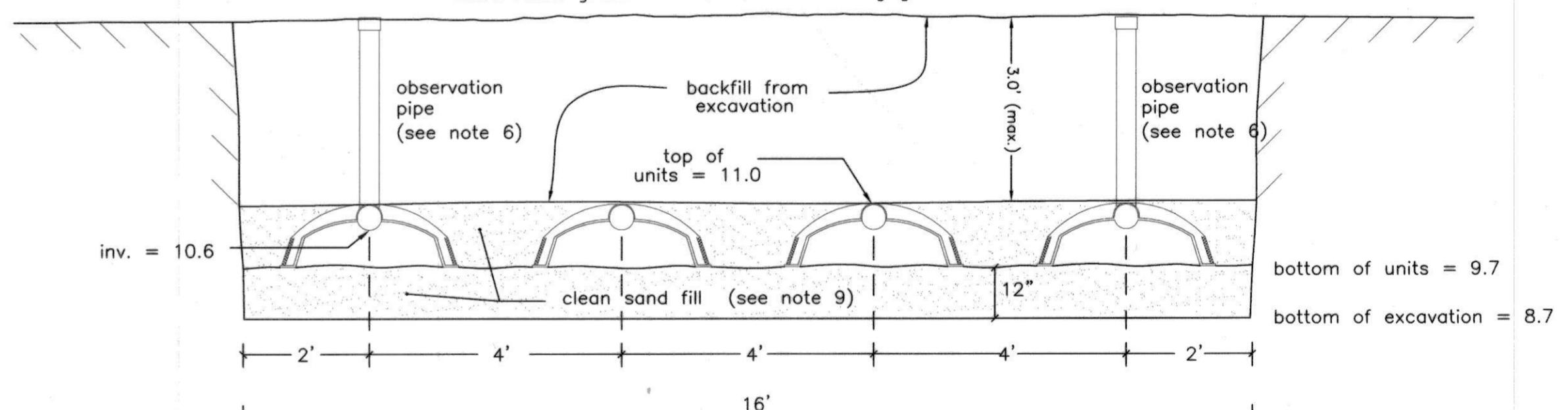
1000 GALLON (H-20)
Pump Chamber
(Guest House ONLY)

DISTRIBUTION BOXES (2)

INFILTRATOR BED

System Cross Section

max. finish grade = 14.0 existing grade = 13.5 - 15.0



NOTE: No scale

To avoid compaction, no machinery is allowed within three vertical feet of bottom of excavation without the specific approval of the design engineer. This leaching facility is not designed for H-20 loads and shall not be driven upon, even though H-20 infiltrators are specified.

Notes

1. This plan is to be used only for the approval and installation of a sewage disposal system and is not to be used for any other purpose.
2. All construction and components shall conform to Massachusetts State Environmental Code TITLE V and Local Board of Health Requirements.
3. This design does not warrant the location of underground pipes, wires, utilities or other underground structures. The installer shall be responsible for locating and relocating these objects as necessary.
4. No garbage grinder is allowed with this system.
5. Any portion of this system subject to vehicular traffic shall be capable of H-20 loading.
6. An observation pipe shall be placed as shown and capped at grade so as to allow monitoring of liquid level in the leaching system. Place re-rod flush at each to aid in relocating with metal detector.
7. All access covers are to weigh at least 150 lbs. and are to be brought to grade by adding risers as necessary. The covers are to be visible at the surface.
8. The inlet tee of the septic tank shall be easily removable (not glued) so as to allow the use of a plumber's snake if necessary.
9. Any clean sand fill required by this design is to have less than 4% passing the No. 100 sieve.
10. No wells could be found within 150' of the proposed leaching facility unless otherwise shown.
11. The engineer is to inspect and approve the leaching excavation before the placement of any gravel, sand, or components.
12. The engineer is to inspect and approve the installation and placement of all septic components before final backfilling.
13. A letter certifying satisfactory construction of this system is to be provided to the Owner and the Board of Health by the Engineer.

Design Criteria

Design Hydraulic Loading

4 Bedroom main house + 1 Bedroom guesthouse = 5 bedrooms total
5 Bedrooms x 110 GPD/Bedroom = 550 GPD

Septic tank capacity:

Required: 440 GPD x 200% = 880 Gal. minimum (main)
Required: 110 GPD x 200% = 220 Gal. minimum (guesthouse)
Septic tank provided = 1500 Gal. (main)
Septic tank provided = 1500 Gal. (guesthouse)

Leaching Capacity Provided:

High Capacity Infiltrator Leaching Bed
28 (H-20) Infiltrator Units
28 Units x 6.25 linear ft./unit x 4.72 sq.ft./linear ft. = 826 sq.ft.
826 sq.ft. x 0.74 GPD/sq.ft./day = 611 GPD
* Per modified certification for general use to "Infiltrator Systems, Inc."
4.72 sq.ft. leaching area per linear ft.

Proposed Septic System UPGRADE on Land in CHILMARK, MASS.

Designed for: JACQUELINE JENSEN

Street Address: #34 EDY'S ISLAND WAY

Date: 2-19-2004 Assessor No.: 27.1 - 73

Lot Area: 3.8± Acres Deed Reference: Bk: 606 Pg: 789
(per tax maps)

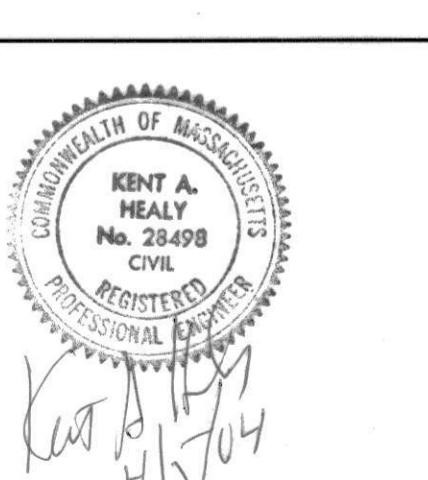
Drawn By: Vineyard Land Surveying, Inc.
P.O. Box 421 12 Cournoyer Road
West Tisbury, MA 02575
508-693-3774

Designed By: Kent A. Healy, P.E.

Checked By: PSW 4-5-2004

Revised: 3-26-04: change number of bedrooms and
leaching facility size.

H-3-04: SHOW PROPOSED WELL AND WELL
HOUSE AT EXISTING WELL SITE, SHOW BALES



Job No. 1613

SOIL DATA

Soil evaluator: Kent A. Healy, P.E.
Witnessed By: Sylvia Yeomans

Deep Observation Hole 1.
Date: 5-20-03
Surface elevation = 14.1

Depth Horizon Texture

0'-1' A

1'-2' B

2'-4' C1 Silty sand

4'-10' C2 Fine-coarse sand w/silt & gravel

Deep Observation Hole 2.
Date:
Surface elevation =

Depth Horizon Texture

0'-1' A

1'-2' B

2'-4' C1 Silty sand

4'-10' C2 Fine-coarse sand w/silt & gravel

K=3 ft./day @ 6' (bag)

K=2 ft./day @ 10' (bag)

No groundwater found at Elev. = 4.1'