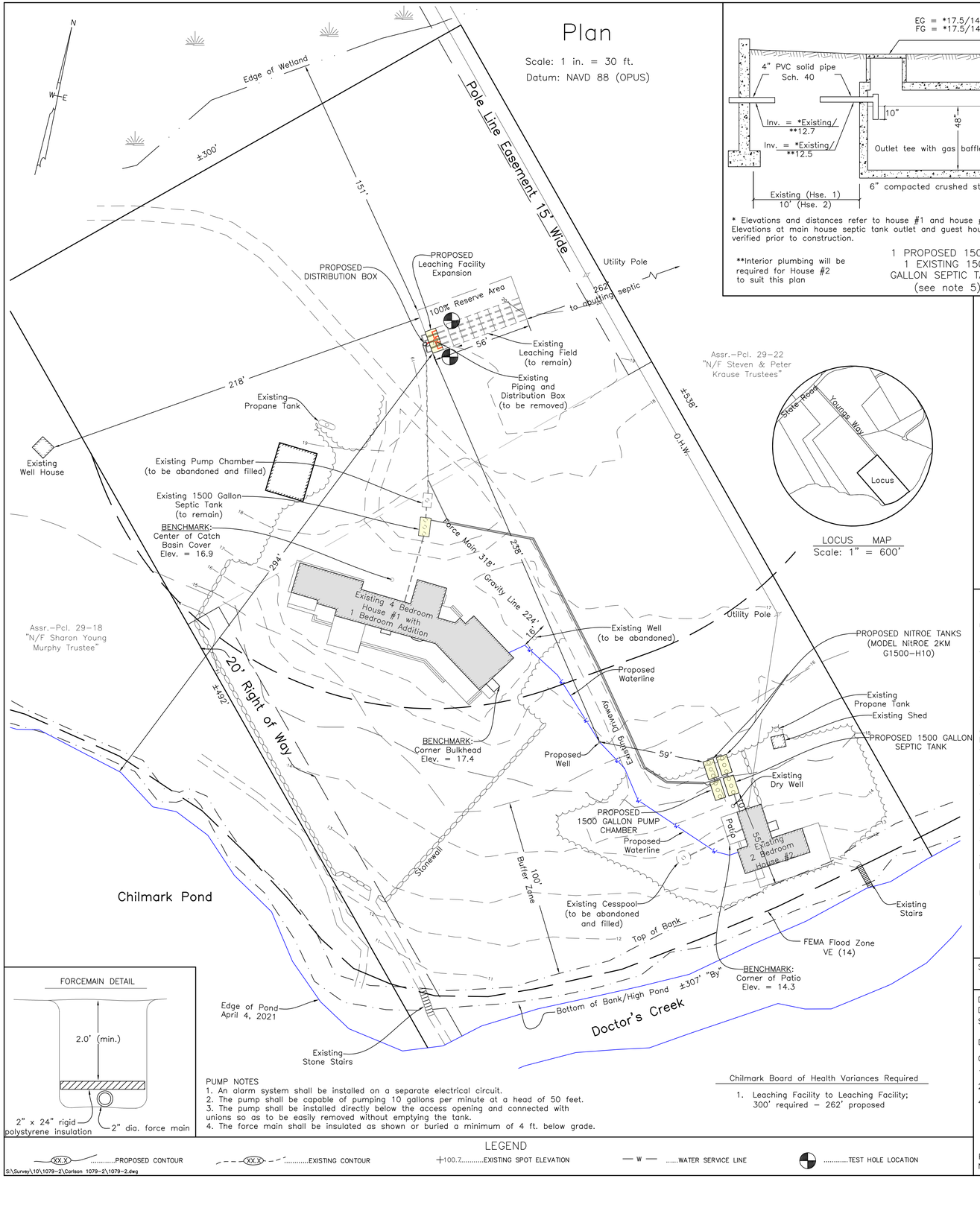
Plan

Scale: 1 in. = 30 ft.
Datum: NAVD 88 (OPUS)



Assr.–Pcl. 29–22
"N/F Steven & Peter Krause Trustees"

LOCUS MAP
Scale: 1" = 600'

FORCEMAIN DETAIL

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. The force main shall be insulated as shown or buried a minimum of 4 ft. below grade.

LEGEND
XX.X .....PROPOSED CONTOUR
XX.X .....EXISTING CONTOUR
+100.7.....EXISTING SPOT ELEVATION
— W — .....WATER SERVICE LINE
.....TEST HOLE LOCATION

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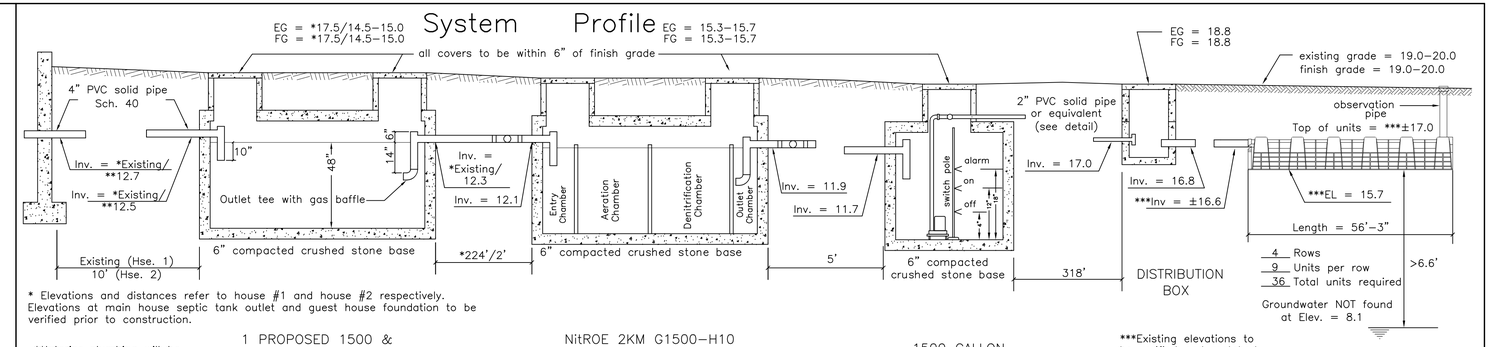
System Profile



* Elevations and distances refer to house #1 and house #2 respectively. Elevations at main house septic tank outlet and guest house foundation to be verified prior to construction.

**Interior plumbing will be required for House #2 to suit this plan

1 PROPOSED 1500 & 1 EXISTING 1500 GALLON SEPTIC TANKS (see note 5)

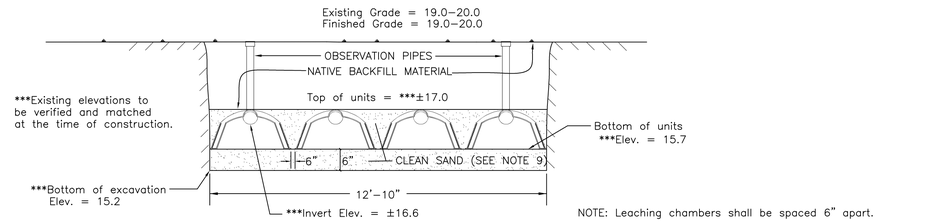
NitROE 2KM G1500–H10
1500 GALLON GOODALE MONO NITROE TANKS

1500 GALLON Pump Chamber (see note 5)

***Existing elevations to be verified and matched at the time of construction.

System Cross Section

NOTE: Not to scale



NOTE: Leaching chambers shall be spaced 6" apart.

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 leaching chambers 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. or screwed down.
8. Leaching Chambers shall consist of Infiltrator high capacity, ADS high capacity biodiffusor or an approved equivalent.
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 200' of the proposed leaching facility, and no leaching facilities could be found within 200' of the proposed well.
11. **The engineer is to inspect and approve the installation and placement of all septic components before final backfilling.**
12. A letter certifying satisfactory construction of this system is to be provided to the owner and the Board of Health by the Engineer.
13. Locus lies within the Coastal District
14. Proposed well to be staked by engineer.

Design Criteria

Design Hydraulic Loading:
7 Bedrooms x 110 GPD/Bedroom = 770 GPD

Septic tank capacity:
Required: 550 GPD x 200% = 1100 Gal. (House #1)
Required: 220 GPD x 200% = 440 Gal. (House #2)
Septic tanks provided = 1–1500 Gallon Existing
1–1500 Gallon Proposed

Leaching Capacity Provided:
H–20 High Capacity Leaching Chamber Bed
36 Leaching Chamber Units
36 Units x 6.25 linear ft./unit x 4.72 sq.ft./linear ft. = 1062 sq.ft.
1062 sq.ft. x 0.74 GPD/sq.ft. = 785 GPD

* Per modified certification for general use High capacity leaching chamber units are allowed 4.7 sq.ft. leaching area per lineal ft. in bed configuration.

Soil evaluator: Kent A Healy, P.E.

SOIL DATA

Deep Observation Hole 1.
Date: April 29, 1998
Surface elevation = 18.6

Depth	
0"–12"	A
12"–24"	B
24"–48"	clayey till
48"–120"	dry brown fine to coarse sand w/ silt

Perc. rate < 5 mpi. @ 48"
No groundwater found at Elev. = 8.6

Deep Observation Hole 2.
Date: November 30, 1998
Surface elevation = 18.1

Depth	
0"–12"	A
12"–24"	B
24"–36"	brown silty sand
36"–120"	dry brown fine to coarse sand

Perc. rate < 5 mpi. @ 36"
No groundwater found at Elev. = 8.1

Chilmark Board of Health Variances Required

1. Leaching Facility to Leaching Facility; 300' required – 262' proposed

Proposed Septic System on Land in CHILMARK, MASS.

Designed for: MAX STONE
Street Address: #29 YOUNGS WAY
Assessor No.: 29–22
Lot Area: ±3.58 ACRES
Designed By: Michael Tomkins
Checked By: R.G.S.
Date: AUGUST 5, 2021
Revised:
1/26/2023: field size & tank configuration

COMMONWEALTH OF MASSACHUSETTS
REID G. SILVA
CIVIL
No. 45205
REGISTERED PROFESSIONAL ENGINEER
August 7, 2021

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Job No. 1079–2