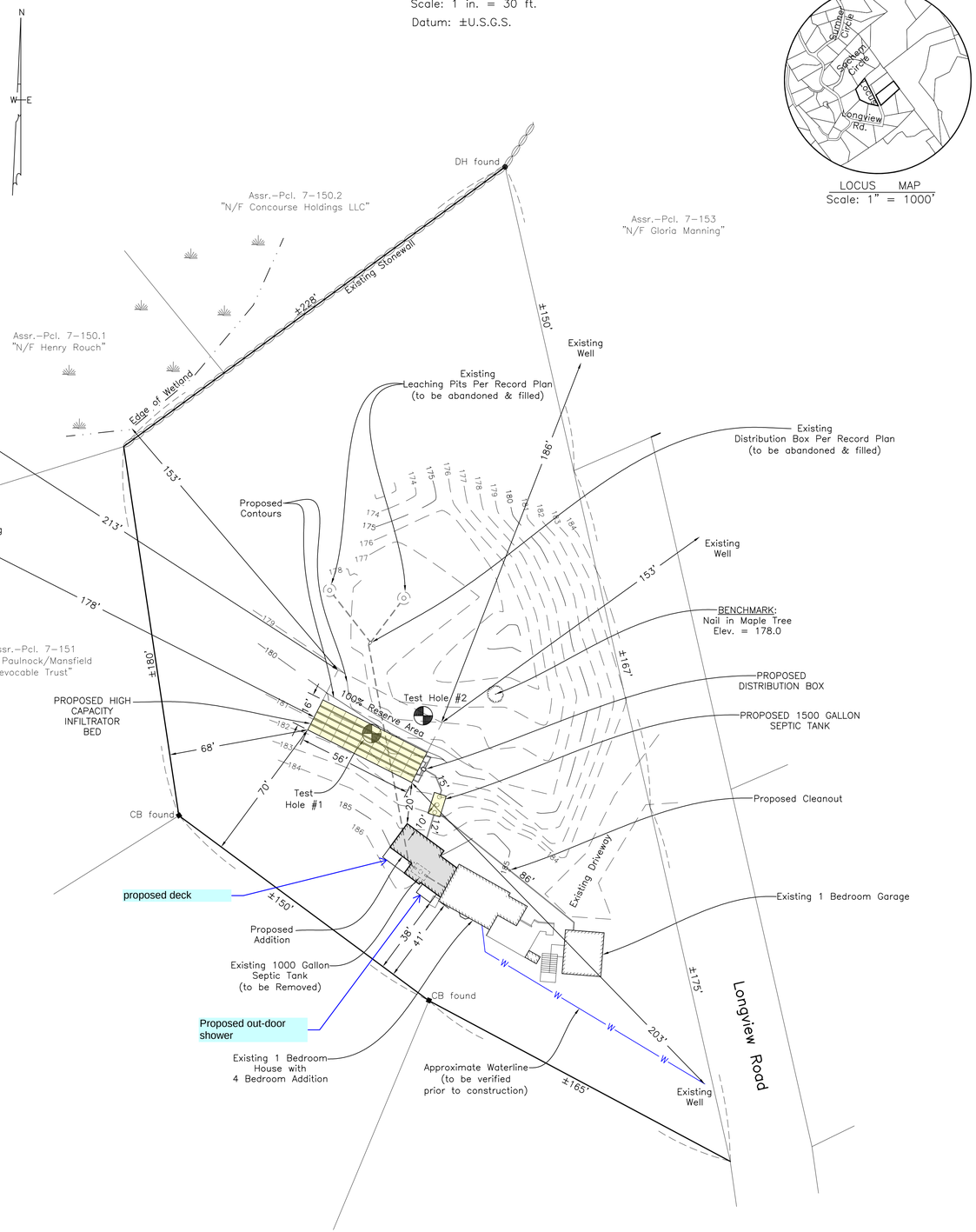
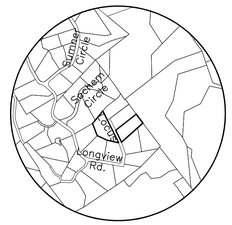
# Plan

Scale: 1 in. = 30 ft.
Datum: ±U.S.G.S.




LOCUS MAP
Scale: 1" = 1000'

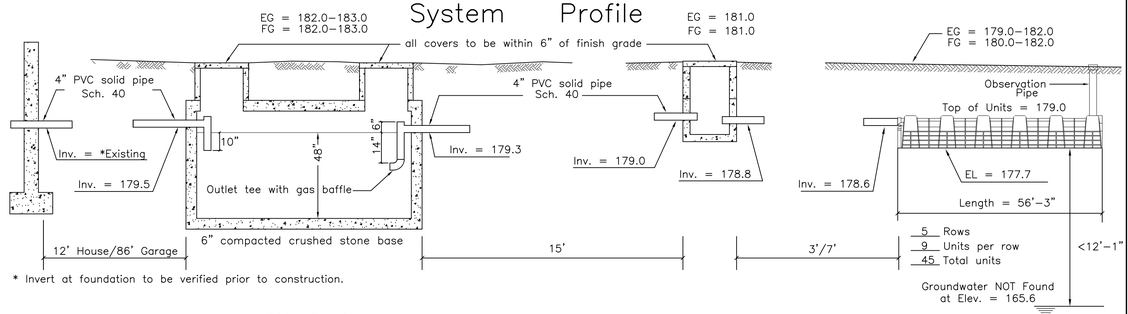



LEGEND

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

S:\Survey\0\77-62\Carlson 77-62\77-62.dwg

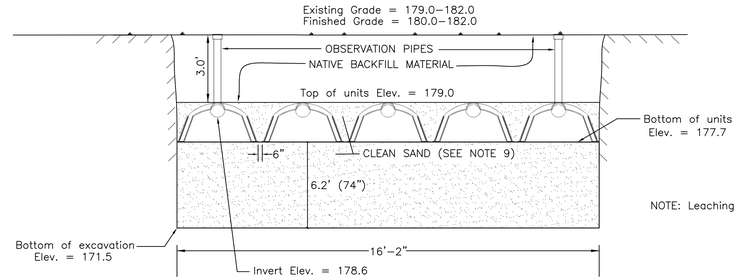
# System Profile




* Invert at foundation to be verified prior to 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 150' of the proposed leaching facility.

# Design Criteria

Design Hydraulic Loading:
6 Bedrooms x 110 GPD/Bedroom = 660 GPD

Septic tank capacity:
Required: 660 GPD x 200% = 1320 Gal. minimum
Septic tank provided = 1500 Gal.

Leaching Capacity Provided:
H–20 High Capacity Leaching Chamber Bed
45 Leaching Chamber Units
45 Units x 6.25 linear ft./unit x 4.72 sq.ft./linear ft. = 1327 sq.ft.
1327 sq.ft. x 0.53 GPD/sq.ft. = 703 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: Reid G. Silva, P.E.
Witnessed By: Omar Johnson

SOIL DATA

Deep Observation Hole 1.
Date: January 27, 2022
Surface elevation = 180.0

| Depth | Horizon | Texture |
|---|---|---|
| 0"–12" | A | Sandy loam |
| 12"–36" | B | Loamy sand w/25% boulders |
| 36"–90" | C1 | Sandy loam |
| 90"–164" | C2 | Sandy loam |

Perc. rate < 15 mpi. @90"
No groundwater found at 164" Elev. = 166.33

Deep Observation Hole 2.
Date: January 27, 2022
Surface elevation = 178.6

| Depth | Horizon | Texture |
|---|---|---|
| 0"–12" | A | Sandy loam |
| 12"–40" | B | Loamy sand w/ 25% boulders |
| 40"–108" | C1 | Sandy loam |
| 108"–156" | C2 | Sandy loam |

Perc. rate < 20 mpi. @108"
No groundwater found at 156" Elev. = 165.6

# Proposed Septic System on Land in WEST TISBURY, MASS.

Designed for: ROSA NOTAROBERTO
Street Address: #232 LONGVIEW ROAD
Assessor No.: 7–152
Lot Area: ±1.71 Acres
Designed By: Troy Silva
Checked By: R.G.S.
Date: March 30, 2022
Revised: May 12, 2022 add addition, relocate septic tank.

COMMONWEALTH OF MASSACHUSETTS
REID G. SILVA
CIVIL
No. 45205
REGISTERED PROFESSIONAL ENGINEER
May 12, 2022


VINEYARD LAND SURVEYING & ENGINEERING INC.
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P.O. Box 421
West Tisbury, MA 02575
P 508-693-3774 F 508-629-0440
VLSE.net


Job No. 77–63