

**GENERAL NOTES**

- A.) Neither driveway nor parking areas are allowed over septic system unless H-20 components are used and system is vented.
- B.) The designer will not be responsible for the system as designed unless constructed as shown. Any changes must be approved in writing by the designer.
- C.) Contractor shall be responsible for verifying the location of all underground and overhead utilities prior to the commencement of work.
- D.) A copy of this plan was submitted to the Chatham Water Department for their review, on

**CONSTRUCTION NOTES**

- 1.) All materials and construction shall conform to the State Environmental Code, Title 5, and the requirements of the local Board of Health.
- 2.) Topsoil, subsoil, peat, or other unsuitable or impervious material [15.255(1)] shall be removed five (5) feet laterally in all directions beyond the outer perimeter of the soil absorption system to the depth of the naturally occurring pervious material(s) and replaced with fill material meeting the specifications of 310 CMR 15.255(3), [15.255(5)].
- 3.) Septic tank(s), grease trap(s), dosing chamber(s) and distribution box(es) shall be set on a level stable base which has been mechanically compacted. If the component is placed in fill, proper compaction is required to ensure stability and to prevent settling; native ground with a 6 inch stone base is otherwise adequate [15.221(2)].
- 4.) Base aggregate shall consist of 3/4" to 1-1/2" double washed stone free of iron, fines and dust and shall be installed from below the crown of the distribution line to the bottom of the soil absorption system [15.247(1)]. Base aggregate shall be covered with a 2" layer of 1/8" to 1/2" double washed stone free of iron, fines and dust [15.247(2)].
- 5.) From the date of installation of the soil absorption system until receipt of a Certificate of Compliance, the perimeter of the soil absorption system shall be staked and flagged to prevent the use of such area for all activities which might damage the system [15.246(2)].
- 6.) The Board of Health shall require inspection of all construction by an agent of the Board of Health and the designer and shall require such persons to certify in writing that all work has been completed in accordance with the terms of the permit and approved plans. 48 hours advance notice is requested.

**SEPTIC TANK NOTES**

- 1.) 1,500 Gallon Two Compartment Septic Tank MicroFAST® ready (H-10)
- 2.) Septic tank(s) shall be installed on a level stable base that has been mechanically compacted and onto which 6 inches of crushed stone has been placed [15.228(1)].
- 3.) Raise covers of the septic tank with pre-cast concrete or corrugated polyethylene water tight risers to within 6" of finish grade [15.228(2)].

**DISTRIBUTION BOX NOTES**

- 1.) Outlet pipes from D-box shall remain level for at least 2 feet before pitching to soil absorption system [15.232(3)(c)]. Water test D-box to assure even distribution [15.232(3)(b)].
- 2.) Raise covers of the D-Box with pre-cast concrete water tight risers over inlet and outlet tees to within 6" of finish grade.

86 Miles Street, Harwich Port  
05-05-2014 - AM, Partly Sunny  
Excavator - TWN  
Soil evaluator Scott Arnoki; witness John Chatham

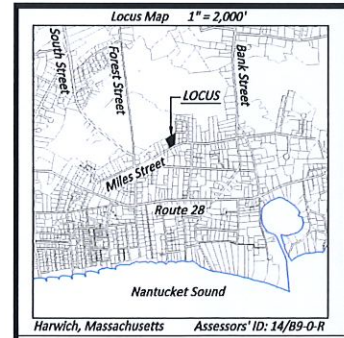
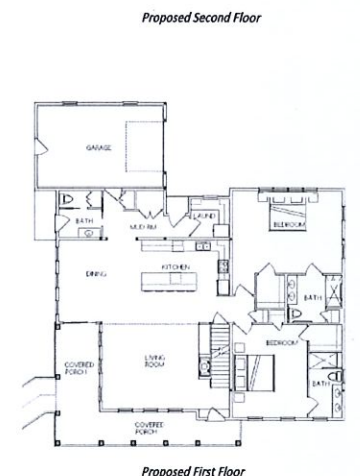
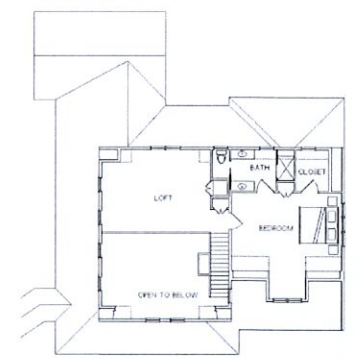
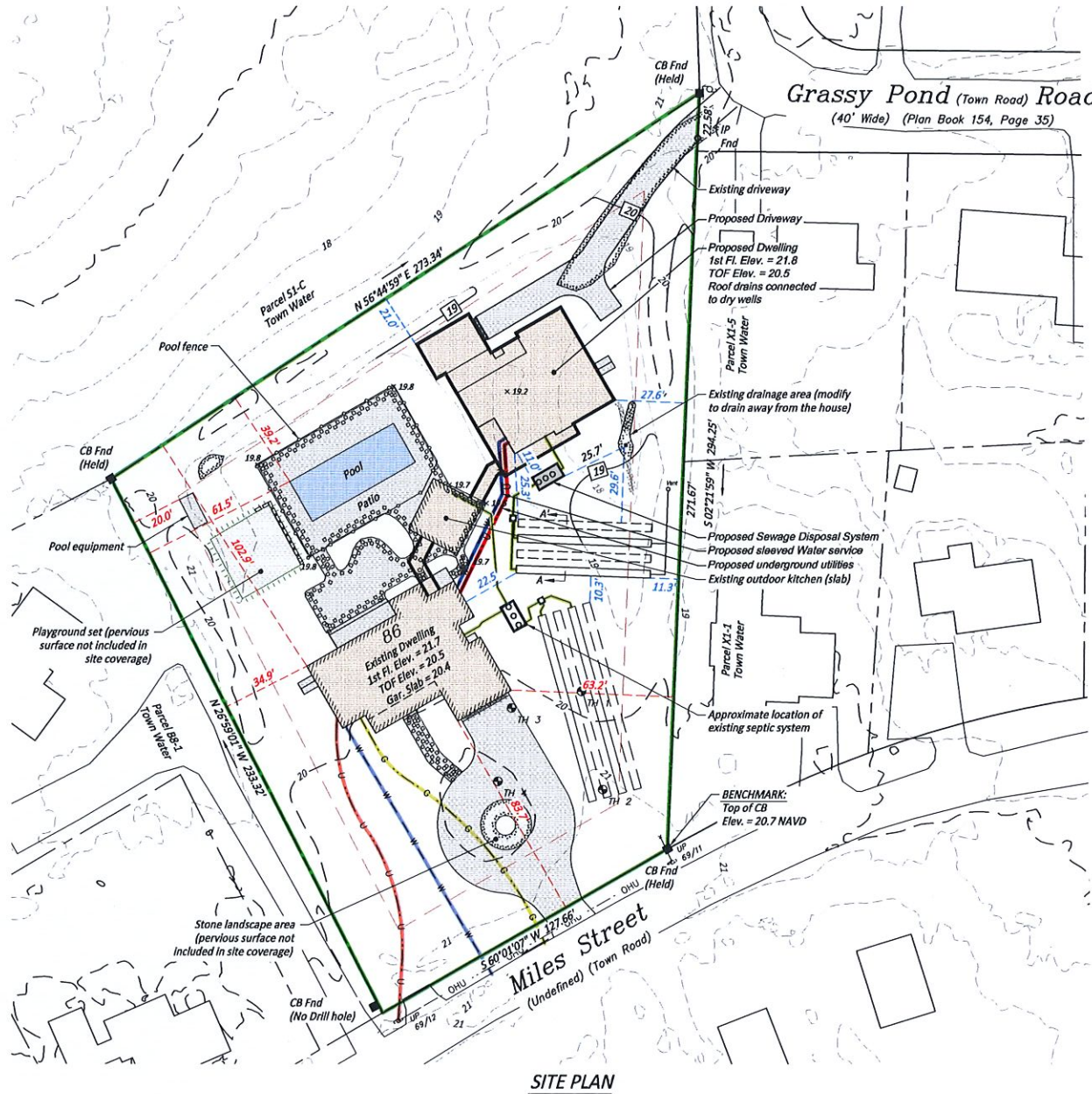
Depth	Elevation	Horizon	Soil Matrix	Soil Texture	Soil Structure
<b>Test Hole #1</b>					
0 to 8	18.1	A	7.5YR4/2	Loamy Sand	Very friable
8 to 28	16.5	B	7.5YR5/6	Loamy Sand	Very friable
28 to 53	14.4	C	10YR5/6	Medium Sand	Loose
Percolation Test, Rate <2 min/inch					
<b>Test Hole #2</b>					
0 to 10	18.9	A	7.5YR3/1	Loamy Sand	
10 to 27	17.5	B	7.5YR4/6	Loamy Sand	
27 to 132	8.7	C	10YR5/6	Coarse Sand	
<b>Test Hole #3</b>					
0 to 11	18.0	A	7.5YR3/2	Loamy Sand	Very friable
11 to 23	17.0	B	7.5YR4/6	Loamy Sand	Very friable
23 to 132	7.9	C	10YR4/6	Medium Sand	Loose
<b>Test Hole #4</b>					
0 to 8	18.7	A	7.5YR3/2	Loamy Sand	Very friable
8 to 13	18.3	E	7.5YR6/1	Loamy Sand	Loose
13 to 42	15.9	B	7.5YR4/6	Loamy Sand	Very friable
42 to 120	9.4	C	10YR5/6	Medium Sand	Loose
62 to 142	14.2	Percolation Test, Rate <2 min/inch			

**SYSTEM DESIGN CALCULATIONS**

- 1.) Basis of Design  
Number of Bedrooms: 3  
Other: (Future Bedrooms) 2
- 2.) Design Daily Flow Sewage Flow: 550 GPD
- 3.) Septic Tank Capacity  
Required: 1500 Gal.  
Provided: 1500 Gal.
- 4.) Soil Absorption System Capacity  
Required: 550 GPD  
Provided: 556 GPD\*
- 5.) A garbage disposal is NOT permitted with this design

\* [2 x (2' x 3' + 2') x 52 L.F. + 4 ends x 2' x 3'] x 0.74 GPD/S.F.

Zone	Zoning Compliance Table		
	Existing	Required	Proposed
Lot area	47,565 S.F. ± or 1.092 Ac. ±	40,000 S.F. 0.918 Ac.	47,565 S.F. ± 1.092 Ac. ±
Frontage	127.66 Ft.	150 Ft.	127.66 Ft.
Front 1 setback	83.7 Ft.	25 Ft.	83.7 Ft.
Side 1 setback	34.9 Ft.	20 Ft.	34.9 Ft.
Side 2 setback	63.2 Ft.	20 Ft.	27.6 Ft.
Rear setback	39.2 Ft.	20 Ft.	21.0 Ft.
Building coverage	3,065 S.F. ± 6.44%	7,135 S.F. 15%	6,043 S.F. ± 12.70%
Site coverage	11,010 S.F. ± 23.15%	14,270 S.F. 30%	14,262 S.F. ± 29.98%
Building height	27.1 Ft. ±	30 Ft.	27.1 Ft. ±

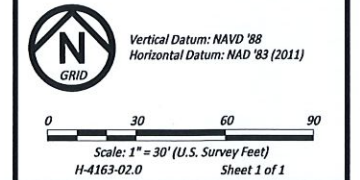


**SEWAGE DISPOSAL SYSTEM**  
86 Miles Street, Harwich, Massachusetts  
February 1, 2023

OWNER OF RECORD:  
Oliver Holmes, LLC  
Deed Book 27,789, Page 326

Description of Revision	Date

**OLIVER HOLMES, LLC**  
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**PROFILE OF SYSTEM**  
(Not to Scale)

