



Location Map

N.T.S.

Legend

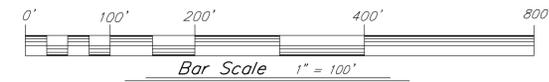
- 12 — Survey Control Point
- 1 — Existing Sign
- 0 — Existing Light Pole
- (Tree) — Existing Deciduous Tree
- (Tree) — Existing Evergreen Tree
- 314.7 x — Existing Spot Grade Elevation
- 150 — Existing Contour
- g — Existing Gas Line/Valve
- s — Existing Sewer Line/Manhole
- fm — Existing Sewer Forcemain
- st — Existing Storm Line/Manhole/Basin
- ohp — Existing Overhead Electric Line/Power Pole
- ahu — Existing Overhead Utility
- comm — Existing Communications Line
- ugp — Existing Underground Power
- ue&t — Existing Underground Electric & Telephone Line
- (Tree) — Existing Tree Line
- (Chain) — Existing Chain Link Fence
- (X) — Existing Barbed Wire Fence
- (Square) — Existing Stockade Fence
- w — Existing Water Line/Hydrant/Valve/Shutoff
- (Dashed) — Approximate Property Line
- (Dashed) — Existing Setback
- (Dashed) — Existing Easement

Notes:

1. This plan is not a boundary survey. Refer to "Plan Showing a Boundary Line Adjustment of Lands of W. Terence Breen & Kelly Patricia Shea, Trustees of the W. Terence Breen Family Trust and Breen & Shea Ventures, LLC" prepared by LaRose Surveys, P.C.
2. The underground utilities shown on this plan are based on visible utilities located during a topographic survey performed by Krebs & Lansing in October 2014. Underground utilities are approximate and not warranted to be exact or complete. Dig Safe shall be contacted prior to any excavation.
3. Elevations are based on the NAVD 88 (Geoid 12A) vertical datum.
4. Project Horizontal Coordinates derived from GPS observation using reference frame NAD83 (2011) 2010.00 epoch.



September 21, 2017	force mains reconfigured	swh	9/21/17
December 3, 2015	Lot 2 building envelope	swh	12/3/15
Date revised	Description	Checked	Date
Design	SWH	Overall Site Plan W Terence Breen Family Trust & Breen & Shea Ventures LLC	
Drawn	JC/SWH		
Checked			
Scale	1" = 100'		
Date	Sept. 17, 2015		
Project	14234 450 & 451 Red Truck Lane	Charlotte, Vermont	

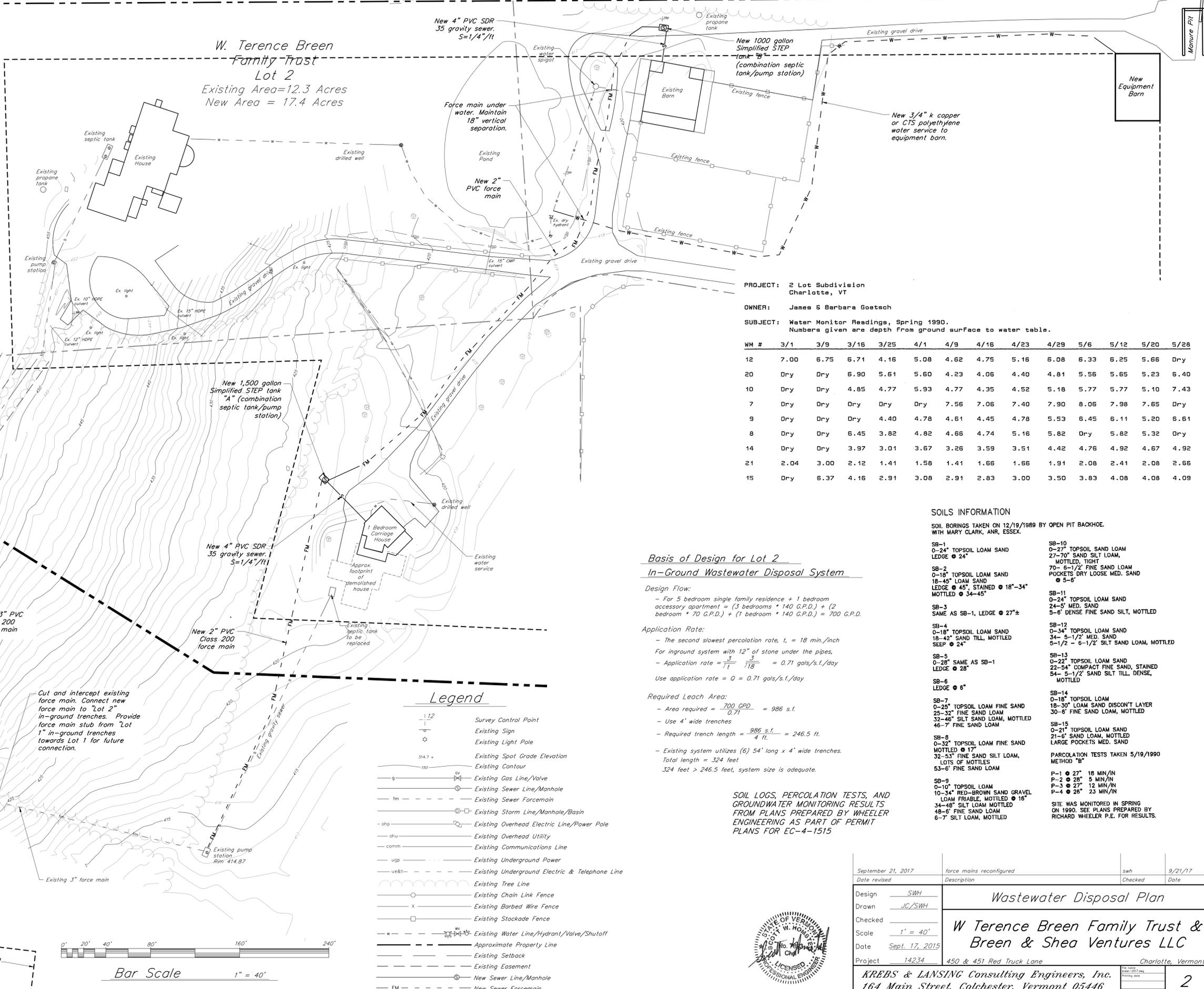


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**W. Terrence Breen
Family Trust
Lot 2**
Existing Area=12.3 Acres
New Area = 17.4 Acres

**Breen & Shea
Ventures LLC
Lot 1**
Existing Area = 35.3
Acres
New Area = 30.2 Acres



PROJECT: 2 Lot Subdivision
Charlotte, VT

OWNER: James & Barbara Goetsch

SUBJECT: Water Monitor Readings, Spring 1990.
Numbers given are depth from ground surface to water table.

WM #	3/1	3/9	3/16	3/25	4/1	4/9	4/16	4/23	4/29	5/6	5/12	5/20	5/28
12	7.00	6.75	6.71	4.16	5.08	4.62	4.75	5.16	6.08	6.33	6.25	5.68	Dry
20	Dry	Dry	6.90	5.61	5.60	4.23	4.06	4.40	4.81	5.56	5.65	5.23	6.40
10	Dry	Dry	4.85	4.77	5.93	4.77	4.35	4.52	5.18	5.77	5.77	5.10	7.43
7	Dry	Dry	Dry	Dry	Dry	7.56	7.06	7.40	7.90	8.06	7.98	7.65	Dry
9	Dry	Dry	Dry	4.40	4.78	4.61	4.45	4.78	5.53	6.45	6.11	5.20	6.61
8	Dry	Dry	6.45	3.82	4.82	4.66	4.74	5.16	5.82	Dry	5.82	5.32	Dry
14	Dry	Dry	3.97	3.01	3.67	3.26	3.59	3.51	4.42	4.76	4.92	4.67	4.92
21	2.04	3.00	2.12	1.41	1.58	1.41	1.66	1.66	1.91	2.08	2.41	2.08	2.66
15	Dry	6.37	4.16	2.91	3.08	2.91	2.83	3.00	3.50	3.83	4.08	4.08	4.09

**Basis of Design for Lot 2
In-Ground Wastewater Disposal System**

Design Flow:
- For 5 bedroom single family residence + 1 bedroom accessory apartment = (3 bedrooms * 140 G.P.D.) + (2 bedroom * 70 G.P.D.) + (1 bedroom * 140 G.P.D.) = 700 G.P.D.

Application Rate:
- The second slowest percolation rate, $t_s = 18$ min./inch
For inground system with 12" of stone under the pipes,
- Application rate = $\frac{3}{17} \cdot \frac{3}{178} = 0.71$ gals/s.f./day
Use application rate = $Q = 0.71$ gals/s.f./day

Required Leach Area:
- Area required = $\frac{700 \text{ GPD}}{0.71} = 986 \text{ s.f.}$
- Use 4' wide trenches
- Required trench length = $\frac{986 \text{ s.f.}}{4 \text{ ft.}} = 246.5 \text{ ft.}$
- Existing system utilizes (6) 54' long x 4' wide trenches. Total length = 324 feet
324 feet > 246.5 feet, system size is adequate.

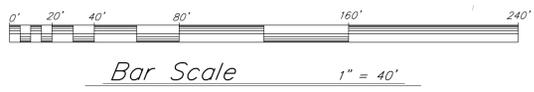
SOILS INFORMATION

SOIL BORINGS TAKEN ON 12/19/1989 BY OPEN PIT BACKHOE WITH MARY CLARK, ANR, ESSEX.

SB-1 0-24" TOPSOIL LOAM SAND LEDGE @ 24"	SB-10 0-27" TOPSOIL SAND LOAM 27-70" SAND SILT LOAM, MOTTLED, TIGHT
SB-2 0-18" TOPSOIL LOAM SAND 18-45" LOAM SAND LEDGE @ 45", STAINED @ 18"-34" MOTTLED @ 34-45"	SB-11 0-24" TOPSOIL LOAM SAND 24-5" MED. SAND 5-6" DENSE FINE SAND SILT, MOTTLED
SB-3 SAME AS SB-1, LEDGE @ 27"±	SB-12 0-18" TOPSOIL LOAM SAND 18-42" SAND TILL, MOTTLED SEEP @ 24"
SB-4 0-28" SAME AS SB-1 LEDGE @ 28"	SB-13 0-22" TOPSOIL LOAM SAND 22-54" COMPACT FINE SAND, STAINED 54-5-1/2" SAND SILT TILL, DENSE, MOTTLED
SB-5 0-32" TOPSOIL LOAM FINE SAND MOTTLED @ 17" 32-53" FINE SAND SILT LOAM, LOTS OF MOTTLES 53-6" FINE SAND LOAM	SB-14 0-18" TOPSOIL LOAM 18-30" LOAM SAND DISCONT LAYER 30-6" FINE SAND LOAM, MOTTLED
SB-6 LEDGE @ 6"	SB-15 0-21" TOPSOIL LOAM SAND 21-6" SAND LOAM, MOTTLED LARGE POCKETS MED. SAND
SB-7 0-25" TOPSOIL LOAM FINE SAND 25-32" FINE SAND LOAM 32-46" SILT SAND LOAM, MOTTLED 46-7" FINE SAND LOAM	PARCOLATION TESTS TAKEN 5/19/1990 METHOD "B"
SB-8 0-32" TOPSOIL LOAM FINE SAND MOTTLED @ 17" 32-53" FINE SAND SILT LOAM, LOTS OF MOTTLES 53-6" FINE SAND LOAM	P-1 @ 27" 18 MIN/IN P-2 @ 28" 5 MIN/IN P-3 @ 27" 12 MIN/IN P-4 @ 26" 23 MIN/IN
SB-9 0-10" TOPSOIL LOAM 10-34" RED-BROWN SAND GRAVEL LOAM FRAGILE, MOTTLED @ 16" 34-48" SILT LOAM MOTTLED 48-6" FINE SAND LOAM 6-7" SILT LOAM, MOTTLED	SITE WAS MONITORED IN SPRING ON 1990. SEE PLANS PREPARED BY RICHARD WHEELER P.E. FOR RESULTS.

Legend

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- Existing Sign
- Existing Light Pole
- 314.7 Existing Spot Grade Elevation
- 150 Existing Contour
- g Existing Gas Line/Valve
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Date	September 21, 2017	Description	force mains reconfigured	Checked	swh	Date	9/21/17
Design	SWH	Wastewater Disposal Plan				W Terrence Breen Family Trust & Breen & Shea Ventures LLC	
Drawn	JC/SWH						
Checked		W Terrence Breen Family Trust & Breen & Shea Ventures LLC					
Scale	1" = 40'	Project 14234 450 & 451 Red Truck Lane Charlotte, Vermont					
Date	Sept. 17, 2015	KREBS & LANSING Consulting Engineers, Inc. 164 Main Street, Colchester, Vermont 05446					
Project	14234	Charlotte, Vermont					

