Lake Champlain

Renovated "Barn"

4" SCH 40 PVC @ 1/4" /FT MIN. SLOPE

CLEAN-OUT

PROPOSED WELL LOCATION

50' MINIMUM SEPARATION FROM ALL SEWERS

Temporary Benchmark
Top of Northwest Corner
On Concrete Pad
Elevation = 135.40
Based On Lake Elevation

PROPOSED PRE-TREATMENT, & PUMP STATION (ADVANTEX UNIT SHOWN)

Elevations Based On Lake Elevation Elevation = 95.4' (9/8/2010)

House
ffe=137.1±

Wood Fence

Gravel Drive

TR #1

Approximate Existing Septic Per Reference Survey

Gravel Road

FORCE MAIN
2" SCH 40 PVC

Dead End

60' R.O.W.

200' Downhill Wellshield

HILLS POINT ROAD

To Lake Road

TP-1

TP-2

TP-3

TP-4

TP-5

TP-6

TP-7

TP-8

±34' Bed

PROPOSED MOUND SYSTEM LEACHFIELD

100' Uphill Wellshield

Temporary Benchmark
Top of 3/4" Iron Pipe
With A.W. Harris Cap
Elevation = 137.24
Based On Lake Elevation

Thick Brush

Reference Survey:
"Plat of Subdivision – Lands of Walter E. & Ruth A.E. Larson" by A.W. Harris & Associates, dated 3/27/1991 and last revised 7/31/1991

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

Notes:

1. Size, material, configuration condition of existing septic tank(s) & connecting pipes to be evaluated & modified as necessary at time of construction.
2. Material excavated from existing septic system that is contaminated with effluent is to be disposed of in conformance with section 1-924 of the "Wastewater System & Potable Water Supply Rules".

Scale: 1"=100'

N/F Larson Family Limited Trust

N/F Mary E. Tang

N/F David & Katherine Cohen

N/F Gregory Smith

N/F John Winton

N/F Roger Binkerd

N/F Mark Binkhorst

±29' ±105' ±164' ±342' ±40' ±112' ±35' ±379' ±159' ±68' ±183' ±198' ±363' ±222' ±129' ±39' ±51' ±5'

Test Pits 8/9/10
Doug Hewitt
Spencer Harris

TP-1
0-6" Plow layer, fine sandy loam, v. dry, blocky, friable, med. brown.
6-28" Fine loam, v. dry, blocky, small roots, lt. brown, fine mottles at 25". Texture in pit varies laterally. Hydraulic Conductivity (K3)= 30 ft/day for strong structure fine sandy loam.
28-46" Coarse sand, gravel, stones, platy, v. dry, grey, mottles not apparent
46-66" Silt loam, gray, humid
SHWT @ 25"
NLTD

TP-2
0-8"Plow layer, fine sandy loam, v. dry, blocky, friable, med. brown.
8-22" Fine loam, v. dry, blocky, small roots, lt. brown, fine mottles at 22".
22-36" Mix of fine sandy loam and weathered shale that can be cut with a knife. Platy, roots, gray, no mottles visible.
36-60" Harder shale diggable with excavator. Dry, permeable.

TP-3
0-6"Plow layer, fine sand v. dry, blocky, friable, med. brown.
6-24" Fine sandy loam, abundant rock fragments v. dry, blocky, small roots, lt. brown, fine mottles at 22" in pockets.
22-40" Stony, blocky, grey, platy pockets. Fine-coarse in pockets.
40-62" Silt loam, gray, humid
SHWT @ 22". Not well defined.
NLTD

TP-4
0-6"Plow layer, fine sand v. dry, blocky, friable, med. brown.
6-26" Mix of fine sandy loam and weathered shale that can be cut with a knife. Platy, roots, gray. Fine faint mottles in sand pockets.
26-45" Weathered permeable shale.
45-60" Coarse sand, small rock fragments and permeable weathered shale easily dug with knife. Edge of hard shale.
SHWT @ 22". Not well defined.
NLTD

TP-5
0-12" Plow layer, fine sand v. dry, blocky, friable, med. brown.
12-36" Fine sandy loam, abundant rock fragments v. dry, blocky, small roots, lt. brown, fine mottles at 22" in finer pockets.
36-60" Silt loam, gray, humid
SHWT @ 22". Not well defined.
NLTD

TP-6
0-12" Plow layer, fine sand v. dry, blocky, friable, med. brown.
12-30" Fine sandy loam, v. dry, blocky, small roots, lt. brown, fine mottles at 20"
36-58" Silt loam, gray, humid
SHWT @ 22". Not well defined.
NLTD

TP-7
0-8"Plow layer, fine sandy loam, v. dry, blocky, friable, med. brown.
8-42" Mix of fine sandy loam and weathered shale that can be cut with a knife. Platy, roots, gray, no mottles visible. Transition to shale diggable with excavator.

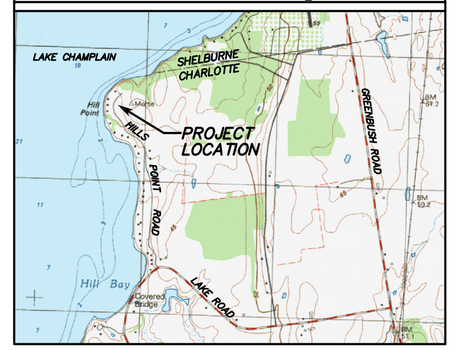
TP-8
0-8"Plow layer, fine sandy loam, v. dry, blocky, friable, med. brown.
8-34" Fine loam, v. dry, blocky, small roots, lt. brown, fine mottles at 28".
34-48" Mix of fine sandy loam and weathered shale that can be cut with a knife. Platy, roots, gray, no mottles visible.
48-54" Harder shale diggable with excavator. Dry, permeable.
SHWT @ 28

Limits of septic design represented by low permeability soft silt loam at depth, hard shale at depth to west and SHWT at 20".

Hydraulic Conductivity (K3) = 30 ft/day for strong structure fine sandy loam.

Percolation rate estimated at 25 minutes/inch

Location Map



Legend

- Property Line
- Easement Line
- 135 Existing Contour
- 135 Proposed Contour
- OE Overhead Electric
- W Water Line
- FM Proposed Force Main
- Wall Shield
- Iron Pipe Found
- Curb Stop
- Utility Pole
- Control Point
- Test Pit

Design Qualification

This design is the best possible to meet existing Town of Charlotte standards and regulations and the Environmental Protection Rules of the Agency of Natural Resources. No guarantee is made as to the ability of this system to be constructed, or to function as intended, unless the same is constructed pursuant to plans of greater detail. Furthermore, this design has been prepared for the regulatory permit process and may not sufficiently detail all the items necessary for construction.

The Contractor is to notify Dig-Safe (Tel. 1-888-344-7233) 48 hours prior to any excavation.

The Contractor shall be insured for the work to be performed, and shall be prepared to furnish a Certificate of Insurance.

It is noted that no site assessment of hazardous or other waste materials has been made and Summit Engineering, Inc. takes no responsibility for any materials or conditions that may exist on this site.

The bearing shown on the property or tie lines on this plan are magnetic and related to other plans, deeds or observations and subject to natural change without notice. The bearings are only shown as an aid in determining the angular relationship between various lines and should not be used as the sole determination of alignment. Summit Engineering, Inc. further advises that lot lines set forth hereon be laid out in the field by a licensed land surveyor prior to reliance thereon for construction or any other purposes.

Other easements, recorded or unrecorded, may exist.

#	REVISION	DATE
1	ELIMINATED SEPTIC TANK FOR USE IN THE ADVANTEX SYSTEM.	5/13/13

SURVEY: LDY/NPN
DESIGNED: DFH
DRAWN: NPN
CHECKED: DFH
SCALE: 1"=30'

FILE NAME: W01R01

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WASTEWATER PLAN

TOM AND LOUISE BERRY

843 HILLS POINT ROAD
CHARLOTTE, VERMONT

DATE: 4/10/13
DRAWING NO.: W1
PROJECT NO.: 8159