

**Minimum Isolation Distances  
From Leachfield**

Drilled Well	100 Feet (200 Feet Downslope)
Waterline	25 Feet
Roadway/Driveway	10 Feet (25 Feet Downslope)
Streams/Lakes	50 Feet
Foundations	35 Feet (75 Feet Downslope)
Property Line	25 Feet

Existing 2-Bedroom Residence  
Replacement System  
Basis of Design  
2-Bedroom Home = 280 GPD  
Linear Footage requirement based on  
Enviro-Septic Wastewater Treatment Systems  
Design & Installation Manual  
Vt. State Attachment  
Using Perc Rate of 11 Min./Inch & 2 Bedrooms  
Required Minimum Linear Footage = 130 ft.  
Linear Footage Provided - 150 ft.  
Minimum Sand Area required w/ 23 mpc perc rate = 286 sq. ft.  
Sand Area Provided based on 12" around Presby Pipe = 364 sq. ft.

Performance Based Linear Loading Rate  
taken from Table #1, Linear Loading Rate  
factors based on Soil Texture & Natural  
Ground Slope Provided by Allison Lowry  
of Wastewater Management, State of Vt.

Fine Sandy Loam @ 12% Slope - (18.7)  
21" to Mottles @ TP #2 - 21"-6" / 12"  
LLR=(1.25 ft.) (18.7)  
(280 GPD)/(23.5 gal./lin. ft.)  
Required Linear Feet - 12 ft.  
Provided Linear Feet - 50 ft.  
Groundwater Mounding w/ 50 Lin. Ft.  
5.6 gal./lin. ft. = (.29 Ft.) (18.7)  
3" of Mounding  
Use 18" of Sand Below Stone

**TEST PITS PERFORMED 5/14/15**

- TP #1  
0-7 DARK BROWN FINE SANDY LOAM, TOPSOIL, LOOSE  
7-12 DARK BROWN VERY FINE SANDY LOAM, ROOTS, LOOSE  
12-25 YELLOW BROWN VERY FINE SANDY LOAM, LOOSE, ROOTS  
25-40 BROWN FINE SANDY LOAM, FEW ROOTS, DAMP  
40-58 BROWN LOAMY FINE SAND, FIRM IN PLACE  
MOTTLED @ 3", ROOTS TO 33"  
TP #2  
0-10 BROWN VERY FINE SANDY LOAM, TOPSOIL, ROOTS LOOSE  
10-22 LIGHT BROWN VERY FINE SANDY LOAM, FRIABLE ROOTS  
22-40 BROWN LOAMY FINE SAND, FIRM IN PLACE  
MOTTLED @ 2", ROOTS TO 28"  
TP #3  
0-8 DARK BROWN VERY FINE SANDY LOAM, TOPSOIL, ROOTS LOOSE  
8-22 LIGHT BROWN VERY FINE SANDY LOAM, LOOSE ROOTS  
22-47 BROWN LOAMY FINE SAND, FIRM IN PLACE  
MOTTLED @ 2", ROOTS TO 31"

**PERCOLATION TEST**  
P-1 - 8 MIN/INCH  
P-2 - 11 MIN/INCH

**NOTES:**

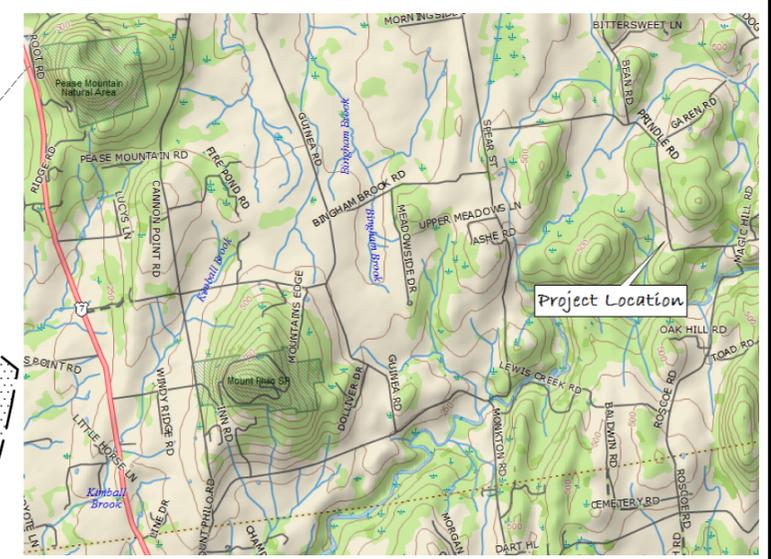
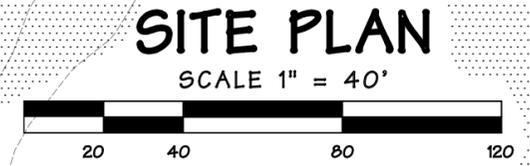
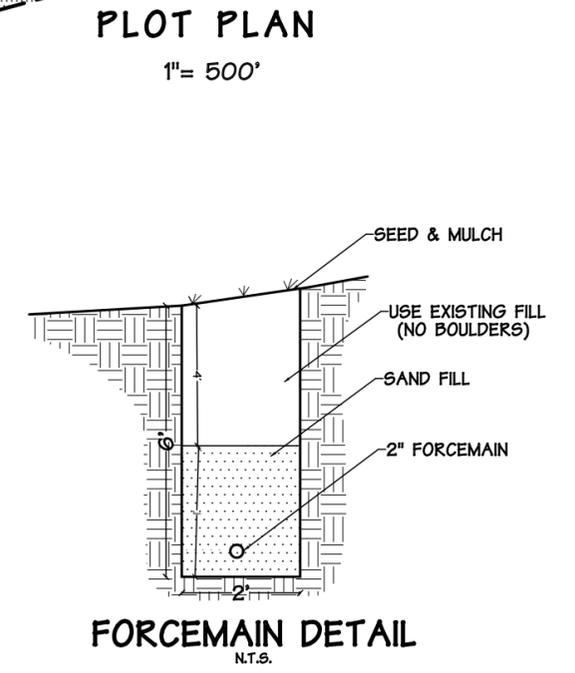
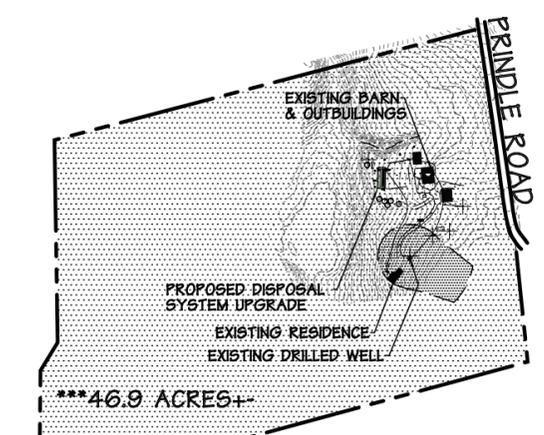
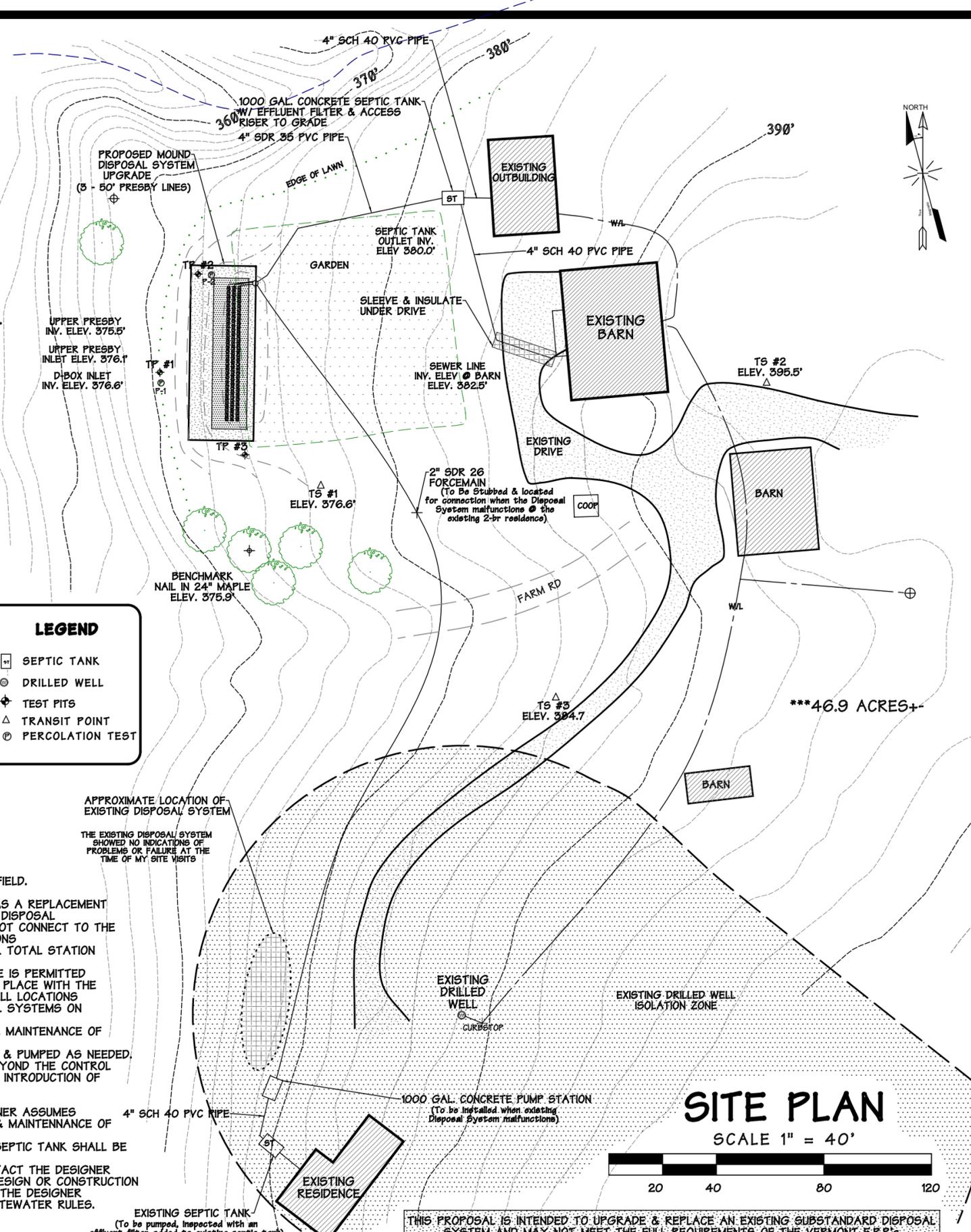
- PARCEL INFORMATION OBTAINED TOWN TAX MAPS AND MARKERS IN THE FIELD.  
\*\*\*THIS IS NOT A SURVEY.\*\*\*
- THIS PROPOSAL INCLUDES A NEW MOUND SYSTEM INTENDED TO SERVE AS A REPLACEMENT FOR BOTH THE EXISTING DISPOSAL SYSTEM IN THE BARN AND A FUTURE DISPOSAL SYSTEM FOR THE EXISTING RESIDENCE. THE CURRENT RESIDENCE WILL NOT CONNECT TO THE PROPOSED MOUND SYSTEM UNTIL THE EXISTING SYSTEM MALFUNCTIONS
- TOPO INFORMATION OBTAINED WITH JAVAD RTK GPS & TRIMBLE ROBOTIK TOTAL STATION W/ 2' CONTOURS EXTENDED WITH DATA FROM VCGI
- THIS PLAN IS INTENDED FOR SEPTIC PERMITTING ONLY AND NO OTHER USE IS PERMITTED
- PRIOR TO ANY CONSTRUCTION ON THE PARCEL, A SITE VISIT SHALL TAKE PLACE WITH THE OWNER, CONTRACTOR & DESIGNER TO DISCUSS & VERIFY SYSTEM & WELL LOCATIONS
- THE DESIGNER HAS DETERMINED A LOCATION FOR WASTEWATER DISPOSAL SYSTEMS ON THE PROPERTY BASED ON A SITE EVALUATION & SOIL TEST PITS.
- THE OWNER OF THE PARCELS IS RESPONSIBLE FOR PROPER OPERATION & MAINTENANCE OF THE PROPOSED SYSTEM TO PROTECT PUBLIC HEALTH & GROUNDWATER
- THE SEPTIC TANKS SHALL BE CHECKED FOR SOLIDS ON A YEARLY BASIS & PUMPED AS NEEDED.
- THE LIFE OF THE SYSTEM CANNOT BE ESTIMATED DUE TO CONDITIONS BEYOND THE CONTROL OF THE DESIGNER SUCH AS EXCESS GROUNDWATER, RAINWATER, & THE INTRODUCTION OF FOREIGN MATERIAL INTO THE SYSTEM
- WATER SAVING DEVICES AND WATER CONSERVATION IS RECOMMENDED
- DUE TO INSTANCES BEYOND THE CONTROL OF THE DESIGNER, THE DESIGNER ASSUMES NO RESPONSIBILITY FOR THE CONTINUED FUNCTIONING AND PROPER USE & MAINTENANCE OF THE SYSTEM
- GARBAGE DISPOSAL ARE NOT RECOMMENDED. IF THEY ARE USED, THE SEPTIC TANK SHALL BE DOUBLED IN SIZE.
- PRIOR TO CONSTRUCTION THE OWNERS SHALL REVIEW THE PLANS & CONTACT THE DESIGNER WITH ANY QUESTIONS REGARDING THE PLANS. MODIFICATIONS TO THE DESIGN OR CONSTRUCTION PROCEDURES MAY LEAD TO SYSTEM FAILURE WITH NO RESPONSIBILITY OF THE DESIGNER
- THIS PLAN IS INTENDED TO MEET THE CURRENT STATE OF VERMONT WASTEWATER RULES.

\*\*\*THIS IS NOT A SURVEY\*\*\*

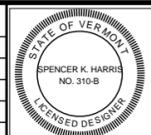
**LEGEND**

- SEPTIC TANK
- DRILLED WELL
- TEST PITS
- TRANSIT POINT
- PERCOLATION TEST

APPROXIMATE LOCATION OF EXISTING DISPOSAL SYSTEM  
THE EXISTING DISPOSAL SYSTEM SHOWED NO INDICATIONS OF PROBLEMS OR FAILURE AT THE TIME OF MY SITE VISITS



THIS PROPOSAL IS INTENDED TO UPGRADE & REPLACE AN EXISTING SUBSTANDARD DISPOSAL SYSTEM AND MAY NOT MEET THE FULL REQUIREMENTS OF THE VERMONT E.P.R.'s



**1914 PRINDLE RD  
DISPOSAL SYSTEM UPGRADE**



SEPTIC SYSTEM DESIGNS  
TOPOGRAPHIC SITE PLANS & MAPPING  
G.P.S. MAPPING  
P.O. BOX 384  
BRISTOL, VERMONT 05443  
453-2351

Drawn:	SKH
Date:	8/3/15
Scale:	AS SHOWN
Project:	1914 PRINDLE RD
Sheet:	1 OF 2

No.	DATE	DESCRIPTION	BY

DATE CHARLOTTE, VERMONT