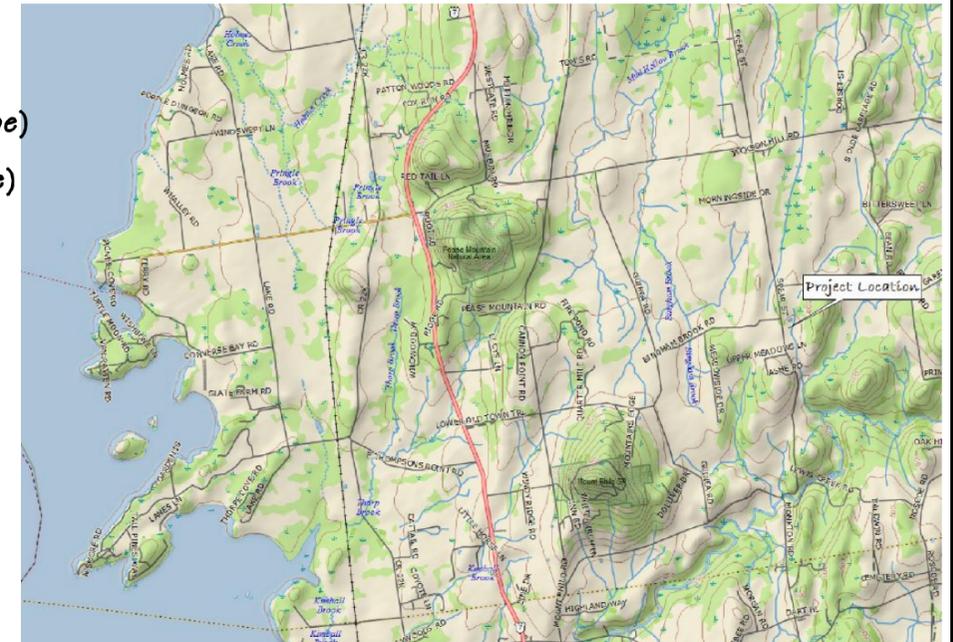


**PLOT PLAN**  
SCALE 1"=100'

**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



**Basis of Design**  
 2- Bedrooms @ 140 GPD = 280 GPD  
 Use Loading Rate 1 gal/sq ft/day  
 Disposal Area Sizing (280sq ft.) / (1)  
 Required Area = 280 sq. ft.  
 Area Provided - 280 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 @ 10.5 % Slope - (18.7)  
 20" to Mottles @ TP #2 - 20"-6 1/12  
 LLR=(1.16 ft.) (18.7)  
 (280 GPD)/(21.7 gal/lin ft.)  
 Required Linear Feet - 12.9 ft.  
 Provided Linear Feet - 35 ft.  
 Groundwater Mounding w/ 35 Lin. Ft.  
 8 gal/lin. ft.=(.43 Ft.)(18.7)  
 5" of Mounding  
 Use 21" of Sand Below Stone

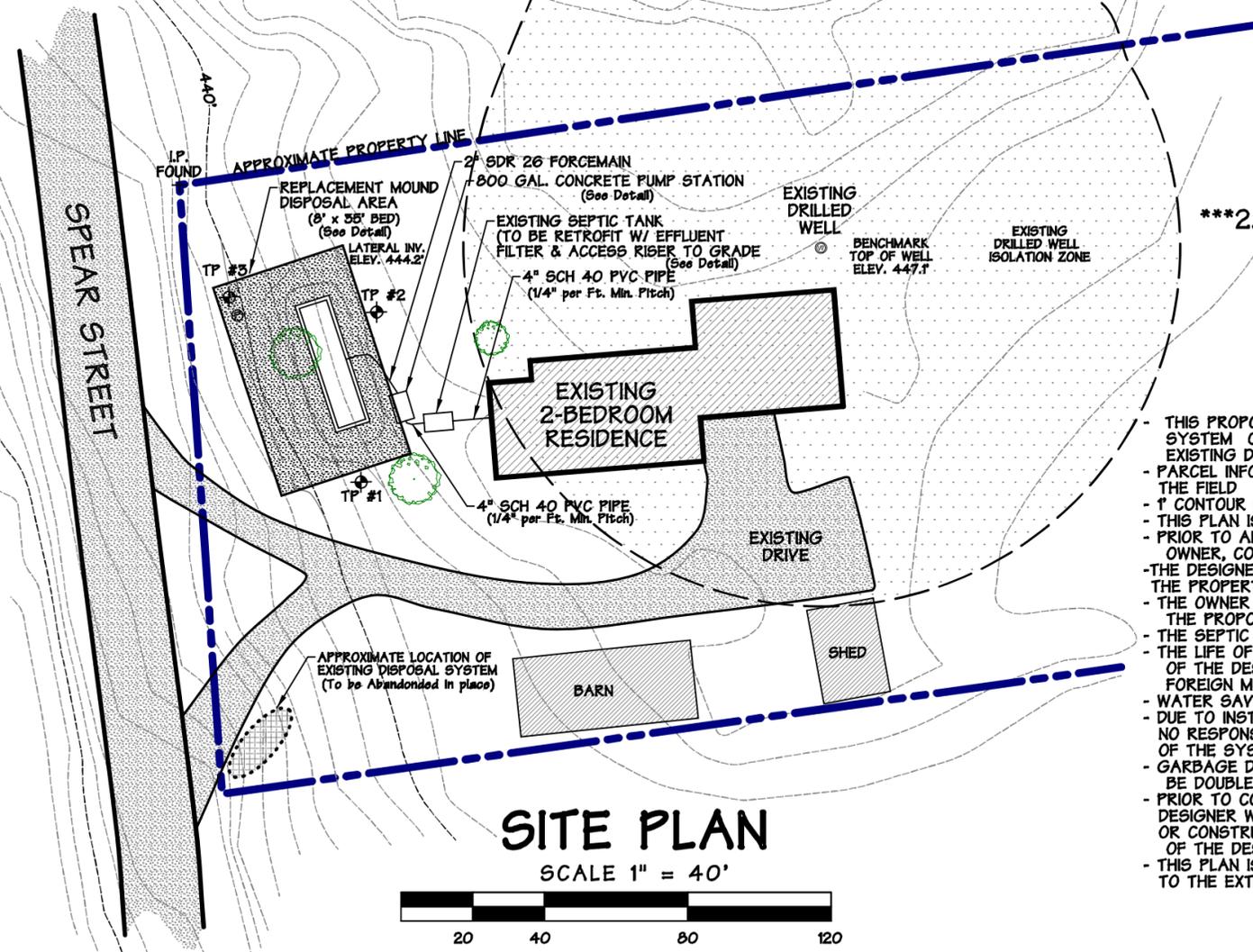
TEST PITS PERFORMED 7/6/17  
 TOWN ENGINEER: BRIAN TREMBACK

TP #1  
 0-9 DARK BROWN VERY FINE SANDY LOAM, TOPSOIL  
 9-20 YELLOW BROWN FINE SANDY LOAM, FEW ROOTS, LOOSE  
 20-43 LIGHT BROWN VERY FINE SANDY LOAM  
 MOTTLED @ 20", ROOTS TO 33"

TP #2  
 0-9 DARK BROWN VERY FINE SANDY LOAM, TOPSOIL  
 9-21 LIGHT ORANGE BROWN FINE SANDY LOAM, FEW ROOTS, LOOSE  
 21-46 LIGHT BROWN VERY FINE SANDY LOAM  
 MOTTLED @ 20", ROOTS TO 26"

TP #3  
 0-10 BROWN VERY FINE SANDY LOAM, TOPSOIL  
 10-26 ORANGE BROWN FINE SANDY LOAM, FEW ROOTS, LOOSE  
 26-39 LIGHT TAN/BROWN VERY FINE SANDY LOAM  
 MOTTLED @ 20", ROOTS TO 29"

PERCOLATION TEST  
 P-1 - 19 MIN/INCH



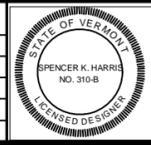
**SITE PLAN**  
SCALE 1" = 40'

**NOTES:**

- THIS PROPOSAL IS INTENDED TO UPGRADE & REPLACE AN OLDER PRE-EXISTING DISPOSAL SYSTEM CURRENTLY SERVING AN EXISTING 2-BEDROOM RESIDENCE. NO CHANGES IN THE EXISTING DRILLED WELL ARE PROPOSED
- PARCEL INFORMATION OBTAINED FROM TOWN TAX MAPS AND INFORMATION OBTAINED IN THE FIELD \*\*\*\*THIS IS NOT A SURVEY\*\*\*\*
- 1' CONTOUR INFORMATION OBTAINED W/ JAVAD RTK GNSS RECEIVER & VCGI LIDAR
- THIS PLAN IS INTENDED FOR SEPTIC PERMITTING ONLY AND NO OTHER USE IS PERMITTED
- PRIOR TO ANY CONSTRUCTION ON THE LOT, A SITE VISIT SHALL TAKE PLACE WITH THE OWNER, CONTRACTOR & DESIGNER TO DISCUSS & VERIFY SYSTEM LOCATION
- THE DESIGNER HAS DETERMINED A LOCATION FOR WASTEWATER DISPOSAL SYSTEMS ON THE PROPERTY BASED ON A SITE EVALUATION & SOIL TESTING
- THE OWNER OF THE PARCEL IS RESPONSIBLE FOR PROPER OPERATION & MAINTENANCE OF THE PROPOSED SYSTEM TO PROTECT PUBLIC HEALTH & GROUNDWATER
- THE SEPTIC TANK 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 TO THE EXTENT POSSIBLE.

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

No.	DATE	DESCRIPTION	BY



**GEORGE**  
 4327 SPEAR ST. Ext.  
 CHARLOTTE, VERMONT

**REPLACEMENT SEPTIC DESIGN**



SEPTIC SYSTEM DESIGNS  
 TOPOGRAPHIC SITE PLANS & MAPPING  
 G.P.S. MAPPING  
 P.O. BOX 384  
 BRISTOL, VERMONT 05443  
 455-2351

Drawn: SKH
Date: 8/24/17
Scale: AS SHOWN
Project: GEORGE
Sheet: 1 OF 2