

# Aitkin County Reuse Existing Septic Design

Property Owner: David Rosati Date: 9/1/2021 Cell: \_\_\_\_\_  
Mailing Address: 4140 New York Ave. Home Phone #: \_\_\_\_\_  
City: Eagan State: MN Zip: 55123  
Site Address: 43833 245th Ln. Parcel Number: 11-0-050900  
City: Aitkin State: MN Zip: 56431  
Driving Directions if no address issued : \_\_\_\_\_

Legal Description : Part of Lot 1 in Doc. 286998  
Sec: 21 Twp.: 45 Range : 27 Twp. Name : Hazelton  
Lake / River : Big Pine Lake Lake / River Classification : RD

**FLOW DATA**  
Number of Bedrooms : 3  
Dwelling Classification : I  
System Type : I  
Gallons per Day ( GPD ) : 450

Estimated Flow in Gallons per Day (GPD)

Bedrooms	Class I	Class II	Class III
2	300	225	180
3	450	300	218
4	600	375	256
5	750	450	294
6	900	525	332
7	1050	600	370
8	1200	675	408

**WELLS**  
Deep Well : Existing Deep  
Shallow Well : None

Wells to be sealed ( if Applicable ) ? \_\_\_\_\_

**SETBACKS**  
Tank(s) to Well : + 100' Drainfield to Well : + 200' Sewer Line to Well : + 70'  
Tank(s) to House : 98' Drainfield to House : +200' Air Test NO  
Tank(s) to Property Line : +10' Drainfield to Property Line : +10'

**Additional System Notes and Information:** \_\_\_\_\_

Existing Septic System is Compliant ( 8/31/2021 )  
Owner proposes new 3 bedroom house to be constructed in same location as existing house  
This is a design to connect the new house to the Existing septic System

Designer Name : Jeff Brummer License Number : L-1347  
Address : 7450 Burr Ln. City : Brainerd State : MN  
Zip Code : 56401 Home Phone # : \_\_\_\_\_ Cell: 218-821-0704  
E-Mail Address : brummerseptic@gmail.com

Designer Signature :  Date: 9/1/2021  
Page: 1 Of \_\_\_\_\_

## Aitkin County { Reuse existing septic system Design }

Property Owner: David Rosati Date: 9/1/2021 Designer's Initials: JB

### Existing Tank Sizing

A. Septic Tank Capacity : 1200 Gallons  
 Tank Type :  Filter :   
 Garbage Disposal / Basement Lift Station :

Bedrooms	Minimum	GD / BL
6 or Less	1,500	2,250
7 or 8	2,000	3,000

B. Pump Tank Capacity : 250 Gallons ( 7080.2100 ) Alarm Type :

### Soils

C. Depth to Restricting Layer : \_\_\_\_\_ inches  
 D. Native SSF : 1.27 { Perc. Rate ( optional ) } \_\_\_\_\_ MPI

\*\* Enter GPD next to the Type of System \*\*

### ROCK TRENCHES

~~E. 6 in. Trench Depth \_\_\_\_\_ GPD x D = 0.0 sq. ft. Cubic Yards of Rock : 0.00 yds.~~  
~~F. 12 in. Trench Depth \_\_\_\_\_ GPD x D x .80 = 0.0 sq. ft. Cubic Yards of Rock : 0.00 yds.~~  
~~G. 18 in. Trench Depth \_\_\_\_\_ GPD x D x .66 = 0.0 sq. ft. Cubic Yards of Rock : 0.00 yds.~~  
~~H. 24 in. Trench Depth \_\_\_\_\_ GPD x D x .60 = 0.0 sq. ft. Cubic Yards of Rock : 0.00 yds.~~  
 I. Divide (E-H) by Trench Width for Lineal feet :  ÷ 3 = #VALUE!

### CHAMBER TRENCHES

~~J. Brand : \_\_\_\_\_ Dimensions of one Chamber ( L x W ) : 0 ft. x 0 ft.~~  
~~K. 6 - 11 in. Chamber Depth : \_\_\_\_\_ GPD x D = 0 sq. ft.~~  
~~L. 12 in. Chamber Depth : \_\_\_\_\_ GPD x D x .80 = 0 sq. ft.~~  
 M. Select from either ( K or L ) if installing Chamber Trenches :   
 N. Divide ( M ) by Trench Width for lineal feet :  ÷ 0 ft. width = #VALUE! Lineal ft.  
 O. Total Chambers Needed ( **Round up** ) = #VALUE! Chambers needed #VALUE!

### SEEPAGE BEDS

~~P. Seepage Bed 600 GPD x D x 1.5 = 1143 sq. ft. Bed Dimensions : 46 ft. x 25 ft.  
 Cubic Yards of Rock = ( Bed Length x Bed Width x 1 ft. Rock Depth ) 1143 ÷ 27 = 42.3 yds.~~

**ADDITIONAL SYSTEM NOTES and INFORMATION :** New house in same location and elevation.

Gravity flow from lower level ( walk-out ) to septic tank, install clean-out near house

Existing system is compliant as a 3 bedroom size. Installed as a 3 bedroom 1987.

Installer to check pump and alarm.

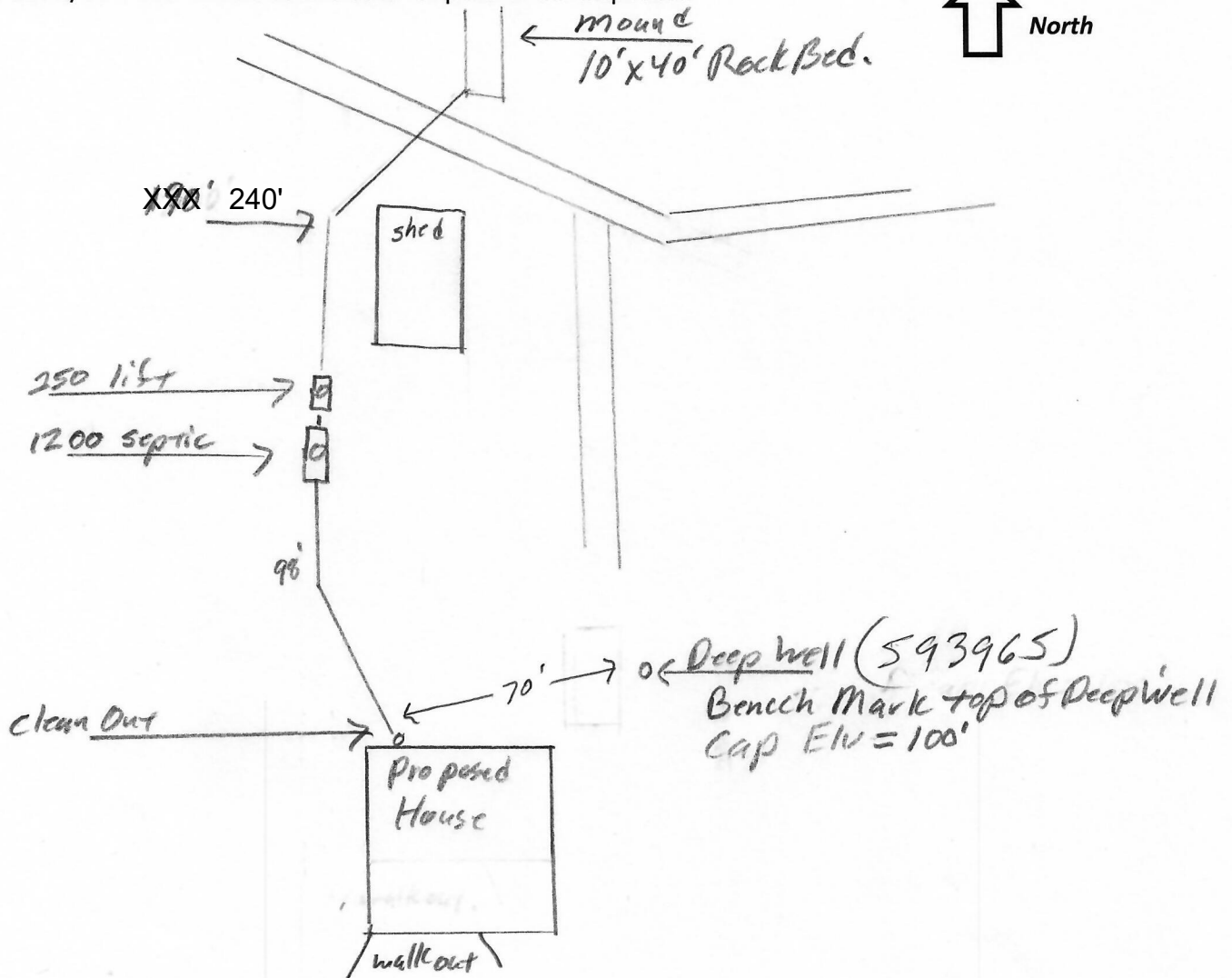
# { Inspection Drawing }

Property Owner: David Rosati Date: 8/31/2021 Designer's Initials: JB  
 Parcel ID. Number: 11-0-050900 Address: 43833 245th Ln. Aitkin MN 56431

Aitkin Co.

One Inch = 40ft.'

Drainfield As/built was confirmed and used for parts of this inspection



Elv. Of ground at Septic Tank = 84.9'  
 Inlet Septic Tank Elv. = 83.7'  
 Elv. Of ground at Pump Tank = 85.1'  
 Inlet Pump Tank Elv. = '  
 Pump Elv. = 81.4'  
 Bench Mark Elv. = 100' Top of Deep Well Cap  
 Ground at well Elv. = 98.9'

Estimated Big Pine Lake Elv. = 78'  
 Grade at Clean-out near house Elv. = 90.8'  
 Existing sewer pipe at house Elv. = 88.3'  
 Grade near Center of mound Elv. = 97.4'

SB - <input type="checkbox"/>	Top of Ground Soil Boring	
Depth ( in.)	Texture	Color
Two prior soil verifications		
Mark Ritter 2008		
Lou Ann Maschler 2014		

SB - <input type="checkbox"/>	Top of Ground		Elv.
Depth ( in.)	Texture	Color	





# Minnesota Well Index

## General Information

Unique Well ID:	<b>593965</b>	Well Name:	<b>BROWN, JAMES T.</b>	County:	<b>Aitkin</b>	Aquifer:	<b>Quat. buried artes. aquifer</b>
Well Elevation (msl in feet):	<b>1301</b>	Drilled Depth (ft):	<b>68</b>	Well Completed (ft):	<b>68</b>	Date Drilled:	<b>04/25/1997</b>
Township:	<b>45</b>	Range:	<b>27</b>	Dir:	<b>W</b>	Section:	<b>21</b>
Subsection:	<b>CBCABA</b>	Use:	<b>domestic</b>	Well Status:	<b>Active</b>	Depth To Bedrock:	
Driller:	<b>Northland Well Co.</b>	Entry Date:	<b>06/19/1997</b>	Update Date:	<b>08/07/2017</b>		

## Related Resources:

[Go to MN Well Index Map](#)   [Well Log Report](#)   [Scanned Record\(s\)](#)   [Stratigraphy Report](#)

<b>More Details</b>	<b>Stratigraphy</b>	<b>Address</b>	<b>Chemical Data</b>	<b>Construction</b>	<b>Pump Test</b>
<b>Static Water</b>	<b>Comments</b>	<b>Location Changes</b>	<b>Overview Map</b>		

Description	From(ft )	To(ft)	Color	Hardness	Lith Primary	Lith Secondary	Interpretation
SANDY CLAY	0	40	BROWN	MEDIUM	CLAY		clay+sand-brown
SAND	40	52	BROWN	MEDIUM	SAND		sand-brown
CLAY	52	59	GRAY	MEDIUM	CLAY		clay-gray
SAND	59	68	BROWN	MEDIUM	SAND		sand-brown

