

Aitkin County Holding Tank Design

Property Owner: Jane Hill Date: 8/1/2023 Cell: 612-998-6990

Mailing Address: 34301 299th Pl. Home Phone # :

City: Aitkin State: MN Zip: 56431

Site Address : 34335 299th Pl. Parcel Number: 15-0-058504

City: Aitkin State: MN Zip: 56431

Driving Directions if no address issued :

Legal Description :

Sec : 34 Twp.: 47 Range : 25 Twp. Name : Kimberly

Lake / River : Dam Lake / River Classification : RD

FLOW DATA		Shed with Bathroom	Estimated Flow in Gallons per Day (GPD)			
			Bedrooms	Class I	Class II	Class III
Number of Bedrooms :	2		2	300	225	180
Dwelling Classification :	I		3	450	300	218
System Type :	II		4	600	375	256
Gallons per Day (GPD) :	300		5	750	450	294
			6	900	525	332
			7	1050	600	370
			8	1200	675	408

WELLS

Deep Well : Proposed Deep

Shallow Well : None

Wells to be sealed (if Applicable) ?

SETBACKS

Tank(s) to Well : +50' Drainfield to Well : NA Sewer Line to Well :

Tank(s) to House : +10' Drainfield to House : NA Air Test NO

Tank(s) to Property Line : +10' Drainfield to Property Line : NA

Additional System Notes and Information:

Shed with bathroom, No wells on this lot. Proposed well must be +50 ft from tank.

Soils are type III , 4 soil borings around building.

Owner wants a holding tank.

Designer Name : Jeff Brummer License Number : L-1347

Address : 14650 Agate Ridge Road City : Brainerd State : MN

Zip Code : 56401 Home Phone # : Cell: 218-821-0704

E-Mail Address : brummerseptic@gmail.com

Designer Signature :



Date: 8/1/2023

Page: 1 Of

Aitkin County Holding Tank Design Lake Lot

Property Owner: Jane Hill Date: 8/1/2023 Designer's Initials : JB

Please record the depth of all horizons, redoximorphic features, restricting layers, and saturated soils. Include all Chroma and hue values.

SB - 1 Proposed Site			SB - 2 Alternate Site		
Depth (in.)	Texture	Color	Depth (in.)	Texture	Color
0 - 7	Top Soil	10YR 3/2	0 - 6	Top Soil	10YR 3/2
7 - 11	Loam	10YR 4/3	6 - 10	Loam	10YR 4/3
11"	Mottels	7.5YR5/4	10 "	Mottels	7.5YR5/4

SB - 3 Proposed Site			SB - 4 Alternate Site		
Depth (in.)	Texture	Color	Depth (in.)	Texture	Color
0 - 7	Top Soil	10YR 3/2	0 - 6	Top Soil	10YR 3/2
7 - 11	Loam	10YR 4/3	6 - 11	Loam	10YR 4/3
11"	Mottels	7.5YR5/4	11"	Mottels	7.5YR5/4

Soil Sizing Factors / Hydraulic Loading Rates

Perc. Rate	Texture	SSF	HLR	Perc. Rate	Texture	SSF	HLR
<0 .1	Coarse Sand			16 to 30	Loam	1.67	0.60
0.1 to 5	Sand	0.83	1.20	31 to 45	Silt Loam	2.00	0.50
0.1 to 5	Fine Sand	1.67	0.6	46 to 60	Clay Loam	2.20	.045
6 to 15	Sandy Loam	1.27	0.79	> 60	Clay Loam	****	0.24

Description of Soil Treatment Areas

	Proposed Site		Alternate Site	
Disturbed Area ?	No		No	
Compacted Area ?	No		No	
Flooding Potential ?	No		No	
Run On Potential ?	No		No	
Limiting Layer Depth	SB = 1 11"	SB = 3 11"	SB = 2 10"	SB = 4 11"
Slope % and Direction				
Landscape Position				
Vegetation Types				
Soil Texture				
Soil Sizing Factor (SSF)	Select One		Select One	

Comments : Owner wants holding tanks over type III Mound at present time.

Designer conducted 4 soil borings, all are type III soils.

~~XXXXXXXXXXXXXXXXXXXX~~

Aitkin County { Design Notes }

Property Owner: Jane Hill Date: 8/1/2023 Designer's Initials : JB
34335 299th PL. Aitkin I Pin : 15-0-058504

Owner want a holding tank, Soils are type III on this lot.
No well on this lot. Closest well is + 70' to tank.
If Owner installs a well it must be +50 ft to the holding tank.
Install 1500 Jacobson Holding tank, + 10 ft from Shed and Property line.

Raise manhole to above finished grade (recommend 6" above finished grade for winter access).
Install electric alarm in tank at 75% of tanks capacity, 32 inches from bottom.
this will leave approx. 375 gallons of reserve capacity.
Tank will meet 50ft. Setback from well, and will meet 10 ft. setback to all property lines.
Tank will meet 10 ft. setback to buildings. Tanks will meet setback to lake 75'.


Home owner has a pumping agreement with local pumper on file.

Setbacks are

- 50 ft. from well
- 10 ft. from lot line
- 10 ft. from road easement
- 10 ft. from structure.
- 75 ft Dam Lake setback.

(Recommendations for holding tanks)
Electric Alarm in or near Shed
Insulate tank top
Water proof outside if installed in water if available
Raise manholes 6" or more above finished grade for winter access
Add extra soil on top of tanks for ballast

Owner should install protection around tank to keep traffic off tank.

Designer Name : Jeff Brummer License Number : L-1347
Address : 14650 Agate Ridge Road City : Brainerd State : MN
Zip Code : 56401 Home Phone # : Cell: 218-821-0704
E-Mail Address : brummerseptic@gmail.com
Designer Signature :  Date: 8/1/2023

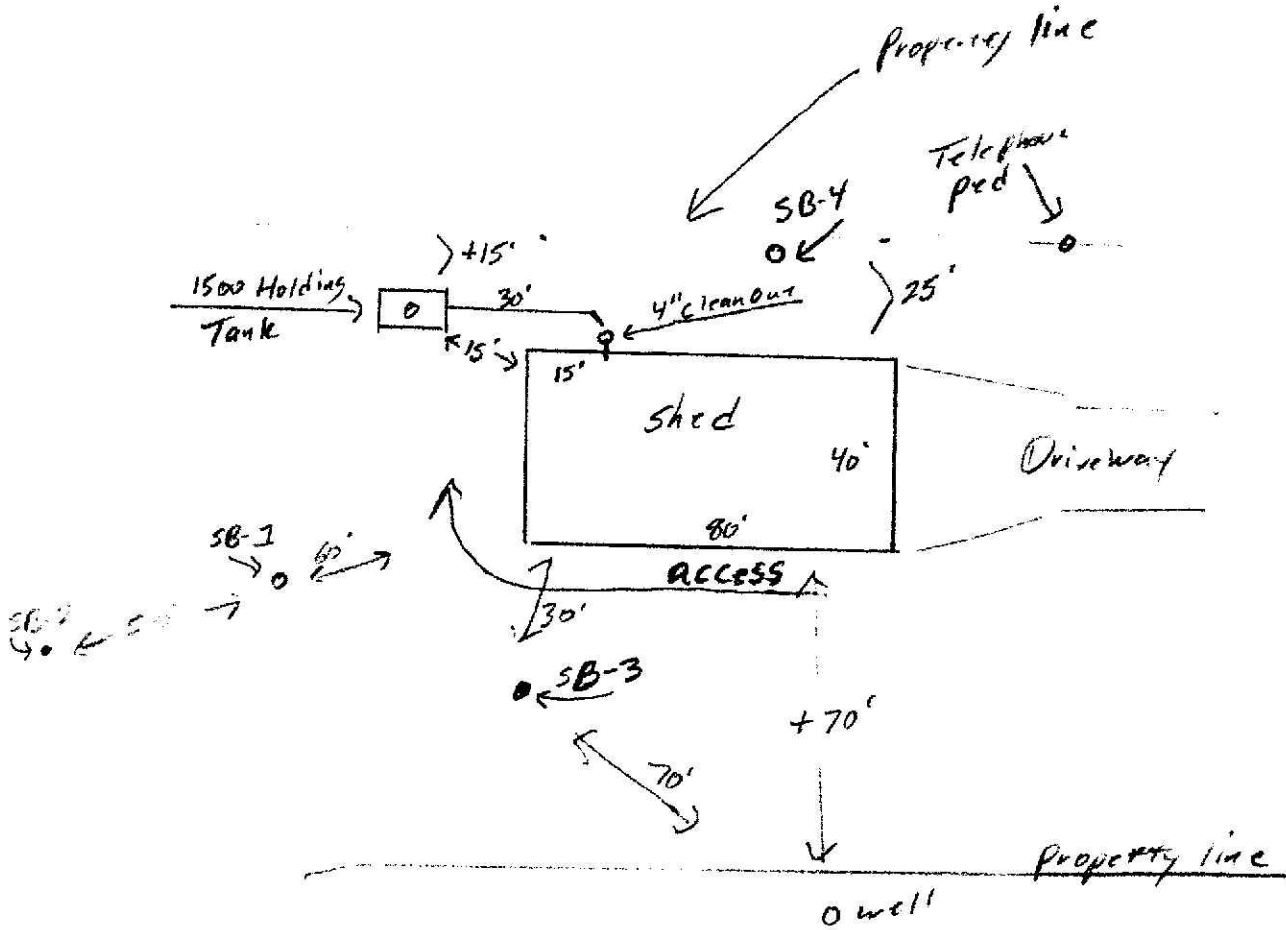
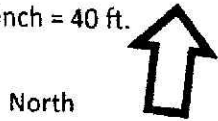
Aitkin County { Holding Tank Design }

Property Owner:
One Inch = 40 ft.

Jane Hill

Date: 8/1/23

Designer's Initials : JB



Dam Lake Crossed road from shed (+ 200')

Please show all that apply (Existing or Proposed): Please Draw to Scale with North to Top or Left Side of Page:

Wells within 100ft. Of Drain field.

Water lines within 10 ft. of Drain field.

Drain field Areas:

Disturbed/Compacted Areas

Component Location

OHW ordinary high water

Lot Easements

Access Route for Tank Maintenance

Property Lines

Structures

Setbacks

Elevations : Benchmark Elevation:

Holding tank grade Elv.= 97.7'

Approx. tank inlet Elv.= 95.5'

Grade at Maple Tree Elv.= 98.3'

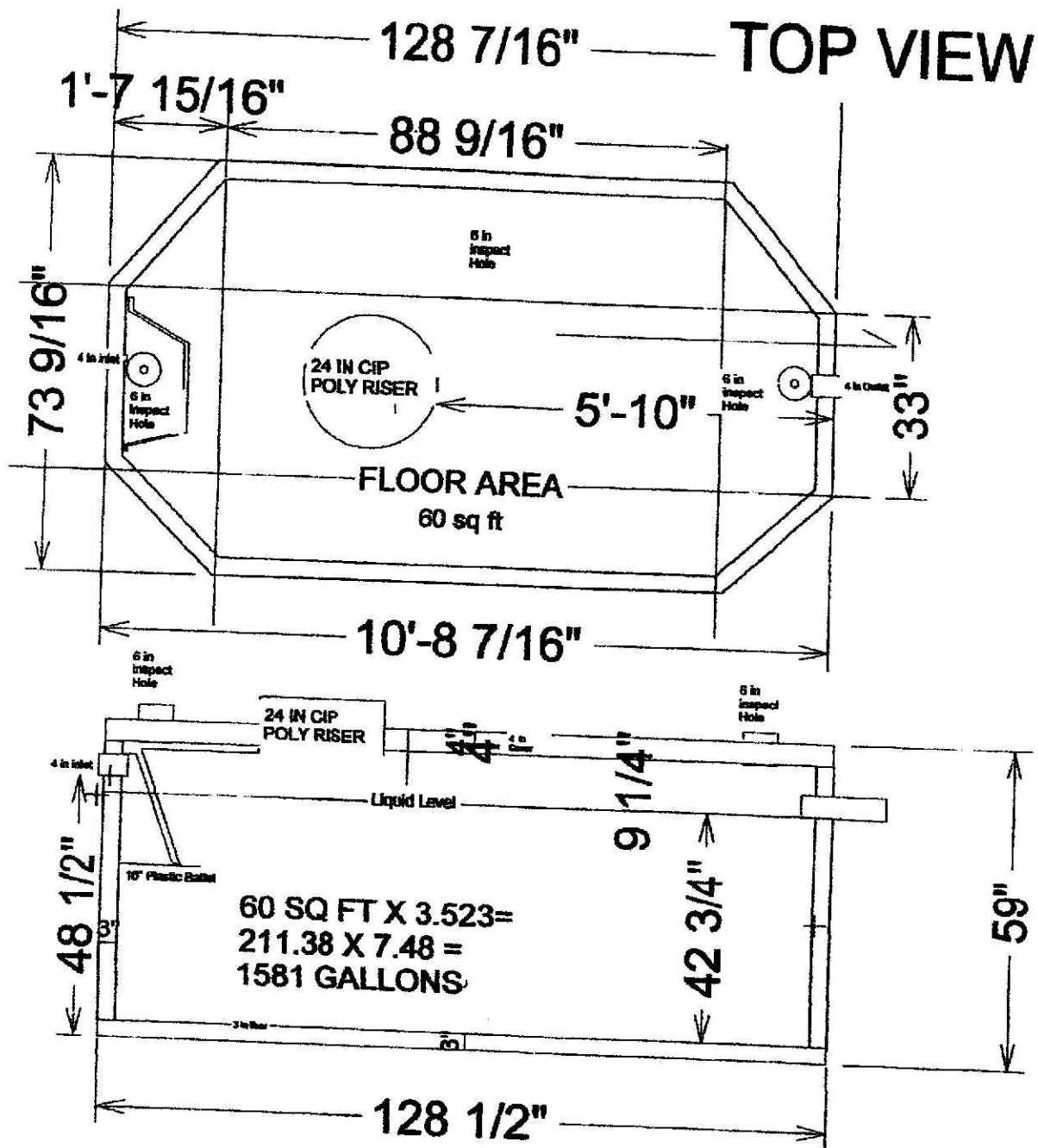
Elv.= 100' Nail on Maple Tree at NW corner of Shed

Existing Grade at NW corner of Shed Elv. = 99.1'

Top of Sewer pipe at house Elv.= 98.6'

Bottom of Tin on Shed Elv.= 100'

1500H Holding Tank



35.08 gallons per. inch

SIDE VIEW

Drawings Owned BY Jacobson Precast, LLC
 36641 HWY 169, Aitkin, Mn 56431
 Do not copy drawings without permission of the Owner

HOLDING TANK PUMPING SERVICE AGREEMENT

PID# 15-0-058504

Permit # _____ Address 34335 299th Pl. Aitkin MN 56431

THIS AGREEMENT, entered into by and between Aitkin County Registered Septic Tank Pumper, Timber Lakes Septic Service hereinafter referred to as "Contractor", and Jane Hill hereinafter referred to as "Homeowner".

WHEREAS, Homeowner desires and is required to retain individual sewage treatment system holding tank services to protect the environment and to obtain a certificate of compliance from Aitkin County; and

WHEREAS, the Contractor desires to provide sewage treatment system pumping services to Homeowner as necessary and in accordance with the terms and conditions outlined herein.

NOW THEREFORE, in consideration of the mutual promises contained herein, Parties do hereby agree as follows:

1. **TERM.** The term of this Agreement shall be from _____ to final installation of an Aitkin County approved sewage treatment system or connection to a Municipal Sewage Treatment System, unless earlier terminated as provided herein. The parties understand and agree that this Agreement is intended to arrange for the provision of pumping services so that Homeowner may occupy the home pursuant to a certificate of compliance to be issued by the Aitkin County Environmental Services Department upon execution of this Agreement. Homeowner further agrees that at the earliest possible date, Homeowner shall have a permanent sewage treatment system installed in accordance with the Aitkin County Subsurface Sewage Treatment System Ordinance and as approved by the Aitkin County Environmental Services Department or connect to a Municipal Sewage Treatment System. Upon approval by the County of Aitkin of the individual sewage treatment system or connection to a municipal sewer, or approval by Aitkin County Environmental Services of an amended or different contract, this Agreement shall terminate.

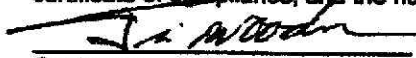
2. **FREQUENCY OF PUMPING.** Homeowner agrees that he/she shall not allow the holding tank to overflow or discharge in any manner. Contractor and Homeowner agree that the holding tank shall be pumped in accordance with the following:

- Tank size (gal.) _____ / (number of household occupants multiplied by 75 gallons per day) = frequency of pumping; or
- Within 24 hours of indication by tank alarm of lack of capacity (applicable only if system has a functional alarm);
- Whichever is greater

Contractor agrees to provide pumping services according to the regular pumping schedule or as needed to prevent discharge. Homeowner shall compensate Contractor as agreed by the parties for pumping services rendered.

3. **INSPECTION.** Holding tanks will be inspected by a licensed pumper at the time of servicing for leaks below the operating depth and whether tank tops, riser joints, and connections leak through visual evidence of major defects.

4. **REPORTING.** Grievances of Homeowner or Contractor shall be reported to the Aitkin County Environmental Services Department by Homeowner or Contractor. Homeowner and Contractor understand that failure to have holding tank pumped as herein specified or the discharge of any contents from the holding tank, regardless of fault, may result in the suspension, cancellation or revocation of the certificate of compliance, and the homeowner may be required to vacate the premises.


Contractor

Homeowner

Date 8/1/2023

Date _____

Timber Lakes Septic Service (218) 927-6175

Jane Hill

1037 1st St. NW Aitkin MN 56431

34301 299th Pl. Aitkin Mn 56431

P:\PZ\SHARE\Formal Pumping Agreements\DOC Pumping Agreement

Timber Lake Septic Service (218) 927-6175

612-998-6990