

Aitkin County Holding Tank Design Lake Lot

Property Owner: Richard Hartman Date: 6/14/2021 Cell: 651-494-7699

Mailing Address: 3548 Aquila Ave. N Home Phone #: _____

City: New Hope State: MN Zip: 55427

Site Address: 43752 Eagle St. Parcel Number: 01-0-035400

City: Aitkin State: MN Zip: 56431

Driving Directions if no address issued : _____

Legal Description : (SE SW) Lot 13 less 3,59 Ac

Sec : 16 Twp.: 47 Range : 27 Twp. Name : Aitkin 125 ft. setback

Lake / River : Mississippi River Lake / River Classification : Select One

FLOW DATA
 Number of Bedrooms : 3
 Dwelling Classification : I
 System Type : II
 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 : NA Sewer Line to Well : +100
 Tank(s) to House : +15 Drainfield to House : NA Air Test YES
 Tank(s) to Property Line : +50 Drainfield to Property Line : NA

Additional System Notes and Information: Proposed holding tanks for Proposed house

Type III system may be installed in the future, soil separation is less than 12".

Elevation of new house not set at time of Design.

Owner will have to survey lot for flood elevation.

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: 6/14/2021

Page: 1 Of _____

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Page: 1 Of _____

Aitkin County Holding Tank Design Lake Lot

Property Owner: Richard Hartman Date: 6/14/2021 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 - <u>1</u> Proposed Site		
Depth (in.)	Texture	Color
0 - 8	Top Soil	10YR 3/2
8 - 10	Clay Loam	10YR 5/3
10"	Mottels	7.5YR5/4
	Redox	10YR 6/2

SB - <u>2 A</u> Alternate Site		
Depth (in.)	Texture	Color

SB - <u> </u> Proposed Site		
Depth (in.)	Texture	Color

SB - <u> </u> Alternate Site		
Depth (in.)	Texture	Color

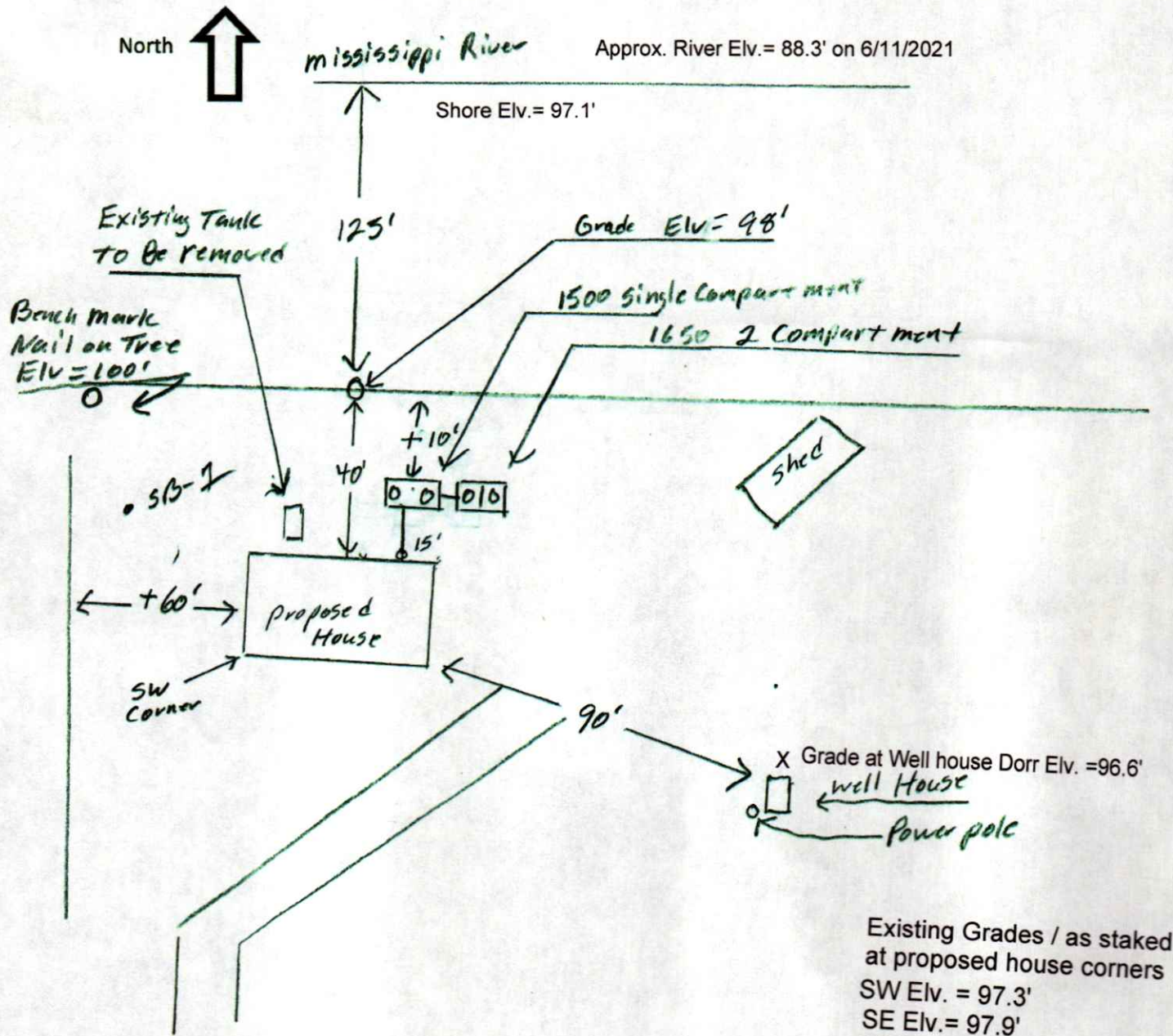
Soil Sizing Factors / Hydraulic Loading Rates							
Perc. Rate	Texture	SSF	HLR	Perc. Rate	Texture	SSF	HLR
<0.1	Coarse Sand			16 to 30	Loam	1.67	0.60
0.1 to 5	Sand	0.83	1.20	31 to 45	Silt Loam	2.00	0.50
0.1 to 5	Fine Sand	1.67	0.6	46 to 60	Clay Loam	2.20	.045
6 to 15	Sandy Loam	1.27	0.79	> 60	Clay Loam	****	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 10"	SB = 0 10"	SB = 2 A	SB = 0
Slope % and Direction	Flat			
Landscape Position	Side slope			
Vegetation Types	Woods & Old Yard			
Soil Texture	Clay Loam			
Soil Sizing Factor (SSF)	2.00		Select One	

Comments : Soil borings near tank area. Owner wants holding tanks over type III Mound at present time.

Aitkin County { Holding Tank Design }

Property Owner: Richard Hartman Date: 6/14/2021 Designer's Initials: JB
 One Inch = 40 ft. Aitkin Co.



Existing Grades / as staked at proposed house corners
 SW Elv. = 97.3'
 SE Elv. = 97.9'
 NW Elv. = 98.1'
 NE Elv. = 97.8'

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 Drainfield.	Disturbed/Compacted Areas	Access Route for Tank Maintenance
Water lines within 10 ft. of Drainfield.	Component Location	Property Lines
Drainfield Areas:	OHW ordinary high water	Structures
	Lot Easements	Setbacks

Elevations : Benchmark Elevation: NA Nail on tree NW of house

Drainfield Elev. _____ Pump Elev. _____

Elev. Of Sewer line at House: Approx 97' Pump Discharge Elev. _____

Tank Inlet Elev. 96.8' Restricting Layer Elev. _____ 10"

Aitkin County { Design Notes }

Property Owner: Richard Hartman Date: 6/14/2021 Designer's Initials : JB
PIN : 01-0-035400 Page : of

Owner proposes a 3 bedroom House, with Slab or Crawl space, with gravity flow from house.
House location within Mississippi flood area, Owner will need a survey for Lowest floor elevation.
House elevation not set at time of design. From Aitkin Co GIS map approx. Elevation of house Elv. = 1200'
On 6/11/2021 talked to Aitkin Co. Environment Services, 10 yr. flood Elv. = 1999.5 and 100 yr. Flood Elv. = 1202.5
Existing deep well SE of house approx. 90ft.
Existing tank or tanks to be Pump, collapse, or removed, location is on North side of house.
Owner proposes holding tank over a Type III mound for now, may install mound later.
Install a Jacobson 1500 single compartment septic tank, than a Jacobson 1650 2/Compartment tank
The Tanks may be use in future mound design.
Install tank with risers water tight, Cap and seal any inspection pipes, tank will be in floodway zone.
Raise manhole of tank to above Elevation 1999.5' (recommend to 100 yr. if possible. Elv. = 1202.5')and secure cover
If house requires a building pad constructed for flood Elevation, owner should include large enough pad
to include tanks in pad. (if this happens tanks can be located 10 ft from house)
Install electric alarm in last compartment at approx. 10% of that tanks capacity. Or approx. 400 gallons reserve.

The holding tank location meets setbacks to river, well, buildings, property line.

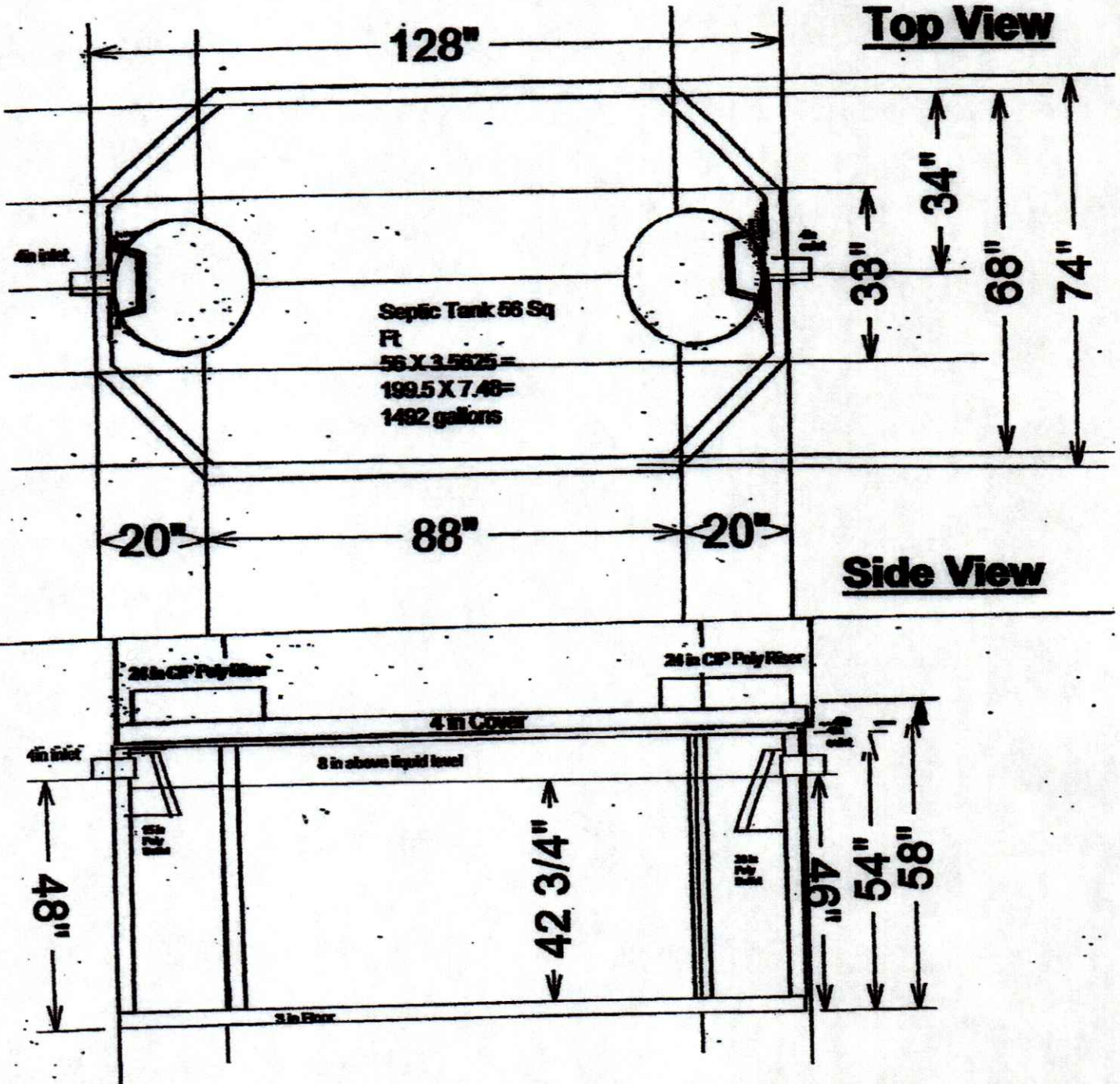
Owner will need a Holding Tank Pumping Service Agreement.

Jeff Brummer L-1347



1500 GALLON SINGLE COMPARTMENT SEPTIC TANK

Weight = 9500 #

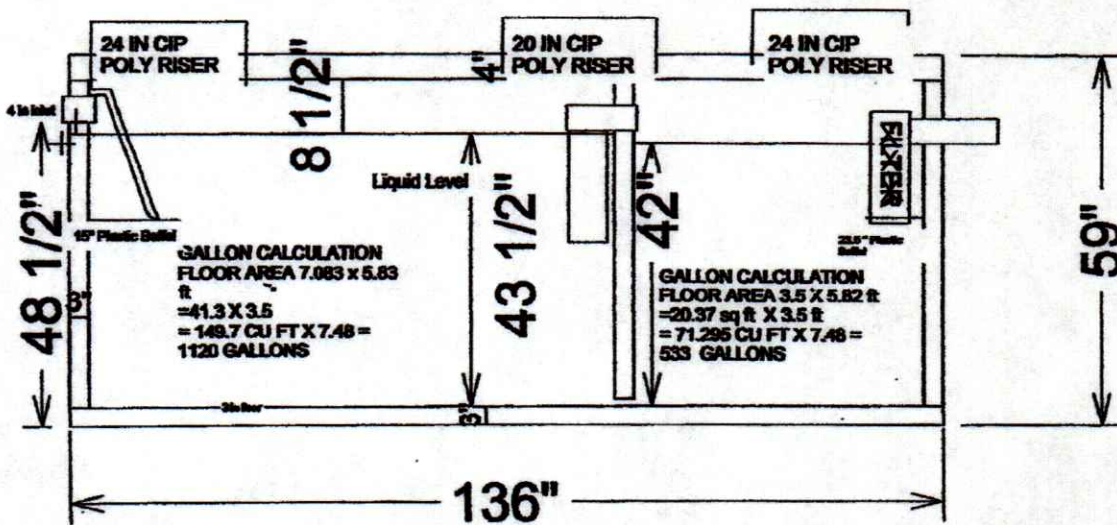
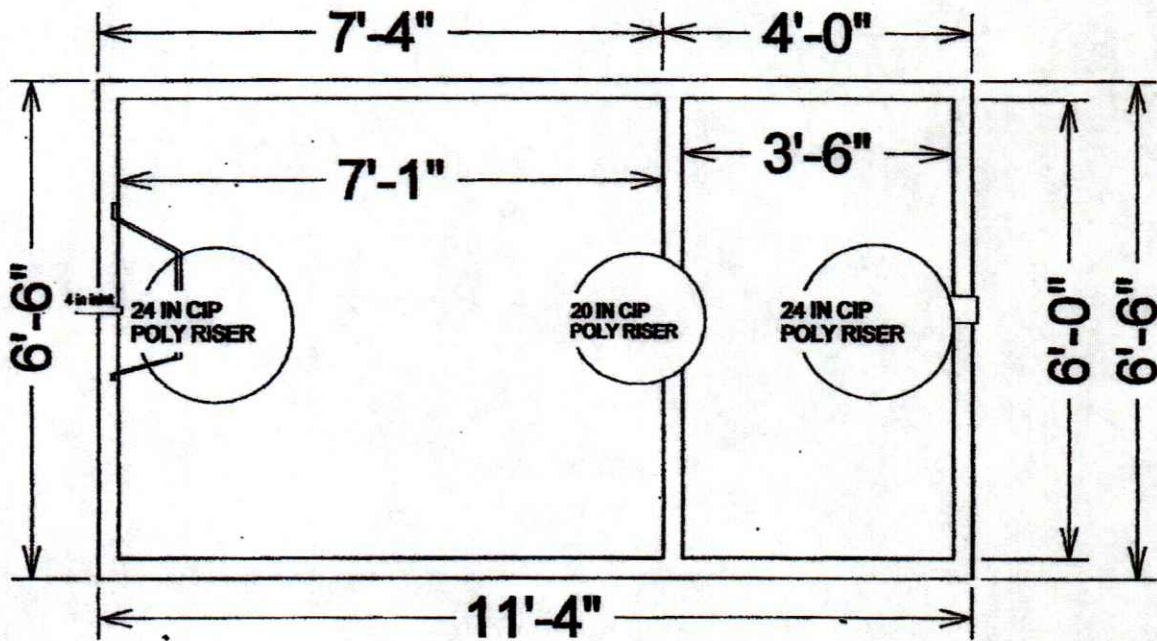


DRAWINGS OWNED BY JACOBSON PRECAST, INC.
 38841 HWY 169, AITKIN, MN 56431
Do not copy drawings without permission of the owner

34.90 GPI

1650 Gallon 2 Compartment Septic Tank

TOP VIEW



$533 / 42" = 12.69 \text{ GPI}$

SIDE VIEW

Drawings Owned BY Jacobson Precast, Inc.
36641 HWY 169, Aitkin, Mn 56431



Mississippi River

1190
1192
1194
1198

16

1200

01-0-035400

1200

Proposed House

1198

1200

01-0-035300

Map may not be valid at this scale. Data was mapped at an accuracy of 1:2,000 so any representation of the data at a larger scale is not advised.

These data are provided on an "AS-IS" basis, without warranty of any type, expressed or implied, including but not limited to any warranty as to their performance, merchantability, or fitness for any particular purpose.

Hartman



Date: 8/17/2021

1:924 0 25 50 ft 1 inch = 77 feet



Detailed Parcel Report

Parcel Number: 01-0-035400

General Information

Township/City: AITKIN TWP
Taxpayer Name: HARTMAN, RICHARD & SUE
Taxpayer Address: 3548 AQUILA AVE N
NEW HOPE MN 55427
Property Address: 43752 Eagle St
Township: 47 Lake Number: 1060400
Range: 27 Lake Name: Mississippi River
Section: 16 Acres: 29.66
Green Acres: No School District: 1.00
Plat:
Brief Legal Description: (SE SW) LOT 13 LESS 3.59 AC HY

Tax Information

Class Code 1: Non-Homestead Agricultural Land
Class Code 2: Non-Homestead Agricultural Land
Class Code 3: Non-Homestead Qualifying Single Res Unit
Homestead: Non Homestead
Assessment Year: 2021

Estimated Land Value:	\$44,800.00
Estimated Building Value:	\$13,200.00
Estimated Total Value:	<u>\$58,000.00</u>
Prior Year Total Taxable Value:	\$58,300.00
Current Year Net Tax (Specials Not Included):	\$406.00
Total Special Assessments:	\$0.00
**Current Year Balance Not Including Penalty:	\$0.00
Delinquent Taxes:	No

* For more information on delinquent taxes, please call the Aitkin County Treasurer's Office at 218-927-7325.

** Balance Due on a parcel does not include late payment penalties.

HOLDING TANK PUMPING SERVICE AGREEMENT

Permit# _____ Address 43752 Eagle St. Aitkin Mn 56431 PID# 01-0-035400

THIS AGREEMENT, entered into by and between Aitkin County Registered Septic Tank Pumper, Goble's Sewer Service Inc., hereinafter referred to as "Contractor", and Richard Hartman, hereinafter referred to as "Homeowner".

651-494-7699

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 6/11/2021

Date _____

Goble's Sewer Service Inc. (218) 927-6175
1037 1st St. NW Aitkin MN 56431

Richard Hartman 651-494-7699

P:\PZSHARE\Formal\Pumping Agreement.DOC Pumping Agreement

Timber Lake Septic Service (218) 927-6175

Subsurface Sewage Treatment System Management Plan

Property Owner: Richard Hartman Phone: 651-494-7699 Date: 4/11/2021
Mailing Address: 3548 Aquila N. City: New Hope MN Zip: 55427
Site Address: 43752 Eagle St City: Aitkin Mn Zip: 56431

PID # 01-0-035400

This management plan will identify the operation and maintenance activities necessary to ensure long-term performance of your septic system. Some of these activities must be performed by you, the homeowner. Other tasks must be performed by a licensed septic service provider.

System Designer: check every 36 months.
Local Government: check every 36 months.
State Requirement: check every 36 months.

**My System needs to be checked
every 36 months.**

(State requirements are based on MN Rules Chapter 7080.2450, Subp. 2 & 3)

Homeowner Management Tasks

Leaks – Check (look, listen) for leaks in toilets and dripping faucets. Repair leaks promptly.
Surfacing sewage – Regularly check for wet or spongy soil around your soil treatment area.
Effluent filter – *Inspect and clean twice a year or more.*

Owner ----> *Alarms* – Alarm signals when there is a problem. Contact a service provider any time an alarm signals.

Event counter or water meter – Record your water use.

-recommend meter readings be conducted (circle one: DAILY WEEKLY MONTHLY)

Professional Management Tasks

- Check to make sure tank is not leaking
- Check and clean the in-tank effluent filter
- Check the sludge/scum layer levels in all septic tanks
- Recommend if tank should be pumped
- Check inlet and outlet baffles
- Check the drainfield effluent levels in the rock layer
- Check the pump and alarm system functions
- Check wiring for corrosion and function
- Check dissolved oxygen and effluent temperature in tank
- Provide homeowner with list of results and any action to be taken
- Flush and clean laterals if cleanouts exist

"I understand it is my responsibility to properly operate and maintain the sewage treatment system on this property, utilizing the Management Plan. If requirements in the Management Plan are not met, I will promptly notify the permitting authority and take necessary corrective actions. If I have a new system, I agree to adequately protect the reserve area for future use as a soil treatment system."

Property Owner Signature: _____ Date: _____

Designer Signature: Jeff Brummer Date: 6/11/2021

See Reverse Side for Management Log

Maintenance Log

Activity	Date Accomplished
<i>Check frequently:</i>	
Leaks: check for plumbing leaks	
Soil treatment area check for surfacing	
Lint filter: check, clean if needed	
Effluent screen: if owner-maintained	
Water usage rate (monitor frequency _____)	
<i>Check annually:</i>	
Caps: inspect, replace if needed	
Sludge & Scum/Pump	
Inlet & Outlet baffles	
Drainfield effluent leaks	
Pump, alarm, wiring	
Flush & clean laterals if cleanouts exists	
Other: _____	
Other: _____	

Notes: Check alarm at least once a year.

Pump tanks when full. have pumper check tanks for leaks

Mitigation/corrective action plan: _____