

v 04.02.2024

## 1. Contact Information

Property Owner/Client:  Date Completed:

Site Address:  Project ID:

Email:  Phone:

Mailing Address:  Alt Phone:

Legal Description:

Parcel ID:  SEC:  TWP:  RNG:

## 2. Flow and General System Information

### A. Client-Provided Information

Project Type:  New Construction  Replacement  Expansion  Repair

Project Use:  Residential  Other Establishment:

Residential use: # Bedrooms:  Dwelling sq.ft.:  Unfinished sq.ft.:

# Adults:  # Children:  # Teenagers:

In-home business (Y/N):  If yes, describe:

- Water-using devices: (check all that apply)
- Garbage Disposal/Grinder
  - Dishwasher
  - Hot Tub\*
  - Sewage pump in basement
  - Water Softener\*
  - Sump Pump\*
  - Large Bathtub >40 gallons
  - Iron Filter\*
  - Self-Cleaning Humidifier\*
  - Clothes Washing Machine
  - High Eff. Furnace\*
  - Other:

\* Clear water source - should not go into system

Additional current or future uses:

Anticipated non-domestic waste:

The above is complete & accurate:

*Client signature & date*

### B. Designer-determined Flow and Anticipated Waste Strength Information

Attach additional information as necessary.

Design Flow:  GPD Anticipated Waste Type:

Maximum Concentration BOD:  mg/L TSS  mg/L Oil & Grease  mg/L

## 3. Preliminary Site Information

### A. Water Supply Wells

#	Description	Mn. ID#	Well Depth (ft.)	Casing Depth (ft.)	Confining Layer	STA Setback	Source
1	4" Casing, drilled well						
2							
3							
4							

Additional Well Information:





# Field Evaluation Worksheet



v 03.15.2023

## 1. Project Information

Property Owner/Client:  Project ID:   
 Site Address:  Date Completed:

## 2. Utility and Structure Information

Utility Locations Identified  Gopher State One Call #   Any Private Utilities:   
 Locate and Verify (see Site Evaluation map)  Existing Buildings  Improvements  Easements  Setbacks

## 3. Site Information

Vegetation type(s):  Landscape position:   
 Percent slope:  % Slope shape:  Slope direction:   
 Describe the flooding or run-on potential of site:   
 Describe the need for Type III or Type IV system:   
 Note:   
 Proposed soil treatment area protected? (Y/N):  If yes, describe:

## 4. General Soils Information

Filled, Compacted, Disturbed areas (Y/N):   
 If yes, describe:   
 Soil observations were conducted in the proposed system location (Y/N):   
 A soil observation in the most limiting area of the proposed system (Y/N):   
 Number of soil observations:  Soil observation logs attached (Y/N):   
 Percolation tests performed & attached (Y/N):

## 5. Phase I. Reporting Information

	Depth	Elevation	
Limiting Condition*:	<input type="text"/> in	<input type="text"/> ft	*Most Restrictive Depth Identified from List Below Soil Texture: <input type="text"/> Percolation Rate: <input type="text"/> min/inch Soil Hyd Loading Rate: <input type="text"/> gpd/sq.ft
Periodically saturated soil:	<input type="text"/> in	<input type="text"/> ft	
Standing water:	<input type="text"/> in	<input type="text"/> ft	
Bedrock:	<input type="text"/> in	<input type="text"/> ft	
Benchmark Elevation:	<input type="text"/> ft	Elevations and Benchmark on map? (Y/N): <input type="text"/>	

Benchmark Elevation Location:   
 Differences between soil survey and field evaluation:   
 Site evaluation issues / comments:   
 Anticipated construction issues:



<b>1. PROJECT INFORMATION</b>		v 04.02.2024
Property Owner/Client:	<input type="text" value="Mille Lacs Veterans Park"/>	Project ID: <input type="text" value="031003"/>
Site Address:	<input type="text" value="24552 385th AVE, Aitkin MN 56431"/>	Date: <input type="text"/>
Email Address:	<input type="text"/>	Phone: <input type="text"/>
<b>2. DESIGN FLOW &amp; WASTE STRENGTH</b>		
Design Flow:	<input type="text" value="1900"/> GPD	Anticipated Waste Type: <input type="text" value="Other Est. - At-Risk"/>
BOD:	<input type="text"/> mg/L	TSS: <input type="text"/> mg/L
Oil & Grease:	<input type="text"/> mg/L	
Treatment Level:	<input type="text" value="C"/> <i>Select Treatment Level C for residential septic tank effluent</i>	
<b>3. HOLDING TANK SIZING</b> <i>Holding Tank Sizing: see 7080.2290</i>		
Code Minimum Holding Tank Capacity:	<input type="text" value="2500"/> Gallons	with <input type="text" value="4"/> Tanks or Compartments
Recommended Holding Tank Capacity:	<input type="text" value="2500"/> Gallons	with <input type="text" value="4"/> Tanks or Compartments
The holding tank(s) will be:	<input type="text" value="All New"/> <i>Existing tank reuse requires a tank integrity assessment</i>	
Type of High Level Alarm:	<input type="text" value="Mechanical float device"/>	
(Alarm Set @ 75% tank capacity measured from inlet to bottom)		
Comments:	<input type="text" value="25 sites total. 2500 gallon tank per 5 sites"/>	
<b>4. SEPTIC TANK SIZING</b> <i>Sizing: See 7080.1930</i>		
<b>A. Residential dwellings:</b>		
Number of Bedrooms (Residential):	<input type="text"/>	
Code Minimum Septic Tank Capacity:	<input type="text"/> Gallons	with <input type="text"/> Tanks or Compartments
Recommended Septic Tank Capacity:	<input type="text"/> Gallons	with <input type="text"/> Tanks or Compartments
The septic tank(s) will be:	<input type="text"/> <i>Existing tank reuse requires a tank integrity assessment</i>	
Comments:	<input type="text"/>	
Effluent Screen & Alarm (Y/N):	<input type="text"/>	Model/Type: <input type="text"/>
<b>B. Other Establishments:</b>		
Waste received by:	<input type="text"/>	<input type="text"/> GPD × <input type="text"/> Days Hyd. Retention Time
7080 Minimum Septic Tank Capacity:	<input type="text"/> Gallons	with <input type="text"/> Tanks or Compartments
Designed Septic Tank Capacity:	<input type="text"/> Gallons	with <input type="text"/> Tanks or Compartments
The septic tank(s) will be:	<input type="text"/> <i>Existing tank reuse requires a tank integrity assessment</i>	
Comments:	<input type="text"/>	
Effluent Screen & Alarm (Y/N):	<input type="text"/>	Model/Type: <input type="text"/>
* Other Establishments Require Department of Labor and Industry Approval and Inspection for Building Sewer *		



Project ID: 031003

**Mound:**

Dispersal Area  sq.ft      Bed Length  ft      Bed Width  ft  
 Absorption Width  ft      Clean Sand Lift  ft      Berm Width (0-1%)  ft  
 Upslope Berm Width  ft      Downslope Berm  ft      Endslope Berm Width  ft  
 Total System Length  ft      System Width  ft      Contour Loading Rate  gal/ft

**At-Grade:**

Dispersal Area  sq.ft      Bed Length  ft      Bed Width  ft  
 Upslope Berm  ft      Downslope Berm  ft      Finished Height  ft  
 System Length  ft      Endslope Berm  ft      System Width  ft

**Level & Equal Pressure Distribution Soil Treatment Area**

No. of Laterals       Lateral Diameter  in      Lateral Spacing  ft  
 Perforation Spacing  ft      Perforation Diameter  in      Drainback Volume  gal  
 Min Dose Volume  gal      Max Dose Volume  gal      Total Dosing Volume  gal

**Non-Level and Unequal Pressure Distribution Soil Treatment Area**

	Elevation (ft)	Pipe Size (in)	Pipe Volume (gal/ft)	Pipe Length (ft)	Perf Size (in)	Spacing (ft)	Spacing (in)	
Lateral 1								Minimum Dose Volume <input type="text"/> gal
Lateral 2								Maximum Dose Volume <input type="text"/> gal
Lateral 3								Total Dosing Volume <input type="text"/> gal
Lateral 4								
Lateral 5								
Lateral 6								

**9. Organic Loading and Additional Info for HSW or Type IV/V Design - See Organic Loading tab**

**Organic Loading to Soil Treatment (Based on Waste Strength Data and Organic Loading Design)**

A. Organic Loading Based on:       B. Minimum required area  sq.ft

**Technology Strength Reduction (Treatment Level or HSW)**

A. Starting Waste Strength       Treatment designed to meet:

Pretreatment Technology:  \*Must Meet or Exceed Target Level  
 Model:       Units:

Disinfection Technology:  \*Required for Levels A & B  
 Model:       Units:

**10. Comments/Special Design Considerations:**

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

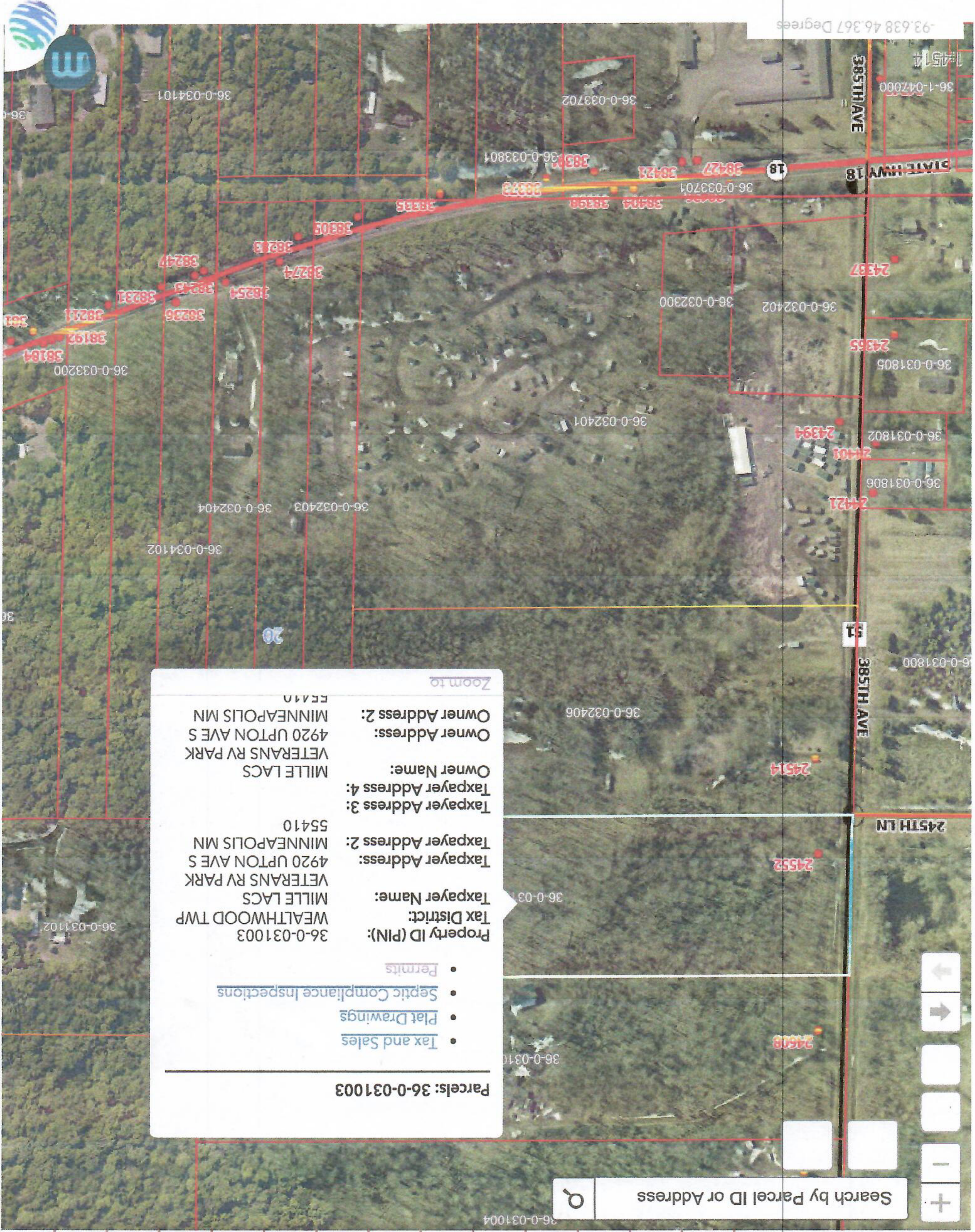
Greg Westerlund  
 (Designer)

Greg Westerlund  
 (Signature)

6063  
 (License #)

6/5/24  
 (Date)





-93.638 46.367 Degrees



**Zoom to**

**Parcels: 36-0-031003**

- [Tax and Sales](#)
- [Plat Drawings](#)
- [Septic Compliance Inspections](#)
- [Permits](#)

**Property ID (PIN):** 36-0-031003  
**Tax District:** WEALTHWOOD TWP  
**Taxpayer Name:** MILLE LACS  
**Taxpayer Address:** VETERANS RV PARK  
**Taxpayer Address 2:** 4920 UPTON AVE S  
**Taxpayer Address 3:** MILLE LACS  
**Taxpayer Address 4:** VETERANS RV PARK  
**Owner Name:** MILLE LACS  
**Owner Address:** 4920 UPTON AVE S  
**Owner Address 2:** MINNEAPOLIS MN

55410

Search by Parcel ID or Address



Link GIS-Public

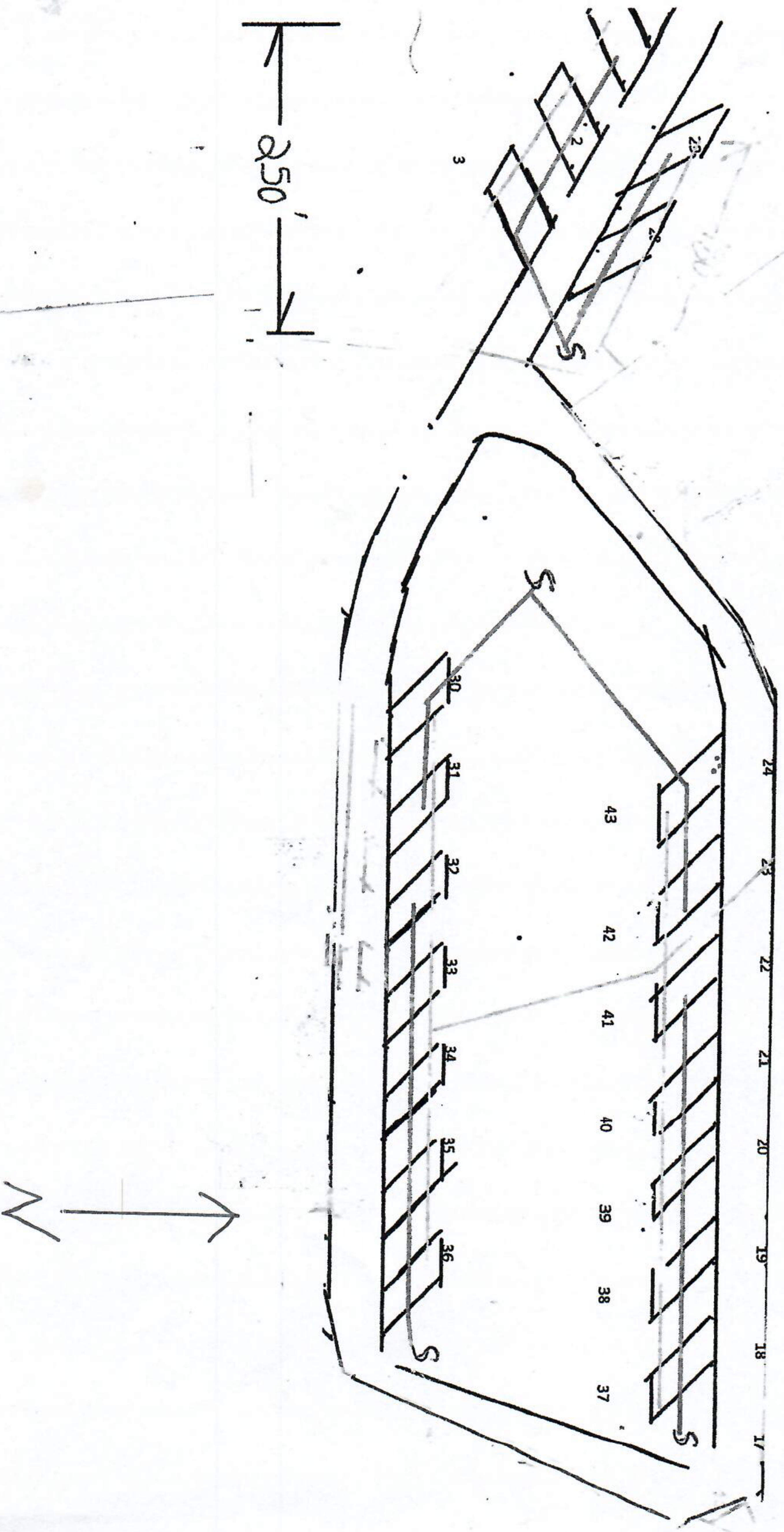
GIS

15

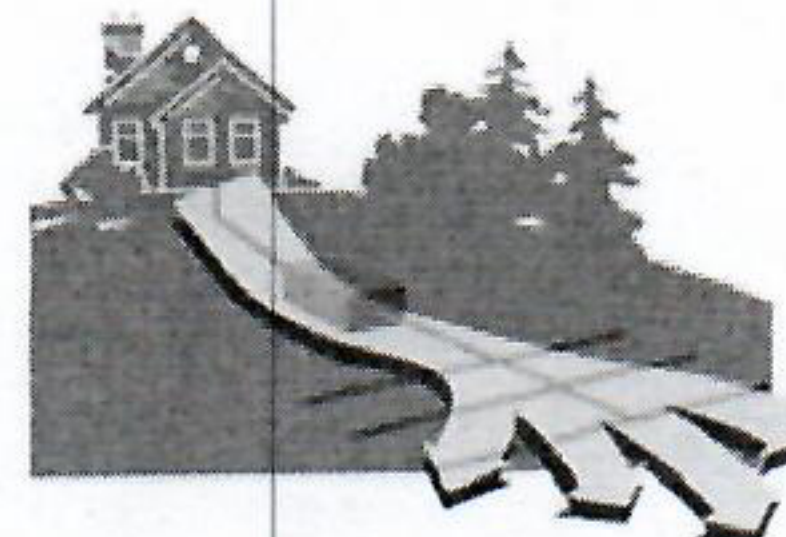


# MILLE LACS VETERANS RV PARK

24552 385<sup>th</sup> AVE, Aitkin MN 56431 / Parcel# 36-0-031003







## Septic System Management Plan for Holding Tank Systems

The goal of a septic system is to protect human health and the environment by properly treating wastewater before returning it to the environment. Your holding tank system is designed to store your used water before it is recycled back into our lakes, streams and groundwater.

This **management plan** will identify the operation and maintenance activities necessary to ensure compliance with applicable rules and regulations. Some of these activities must be performed by you, the homeowner. Other tasks must be performed by a licensed septic maintainer. However, it is YOUR responsibility to make sure all tasks get accomplished in a timely manner.

The University of Minnesota's *Septic System Owner's Guide* contains additional tips and recommendations designed to extend the effective life of your system and save you money over time.

***Proper septic system design, installation, operation and maintenance means safe and clean water!***

Property Owner: Mille Lacs Veterans Park

---

Property Address: 24552 385th Ave, Aitkin MN 56431 Property ID: 36-0-031003

---

System Designer: Greg Westerlund License #: 663

---

System Installer: Westerlund Construction LLC License #: 663

---

Service Provider/Maintainer: Timber Lakes Septic Phone: 218-927-3175

---

Permitting Authority: Aitkin County Environmental Phone: 218-927-7342

---

Permit #: Date Inspected:

---

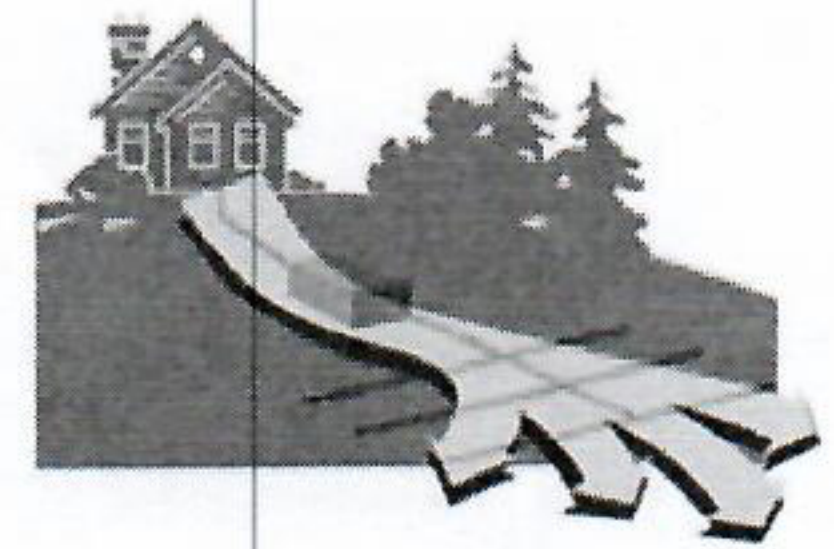
Keep this Management Plan with your Septic System Owner's Guide. The Septic System Owner's Guide includes a folder to hold maintenance records including pumping, inspection and evaluation reports. Ask your septic professional to also:

- Attach permit information, designer drawings and as-builts of your system, if they are available.
- Keep copies of all pumping records and other maintenance and repair invoices with this document.
- Review this document with your maintenance professional at each visit; discuss any changes in product use, activities, or water-use appliances.

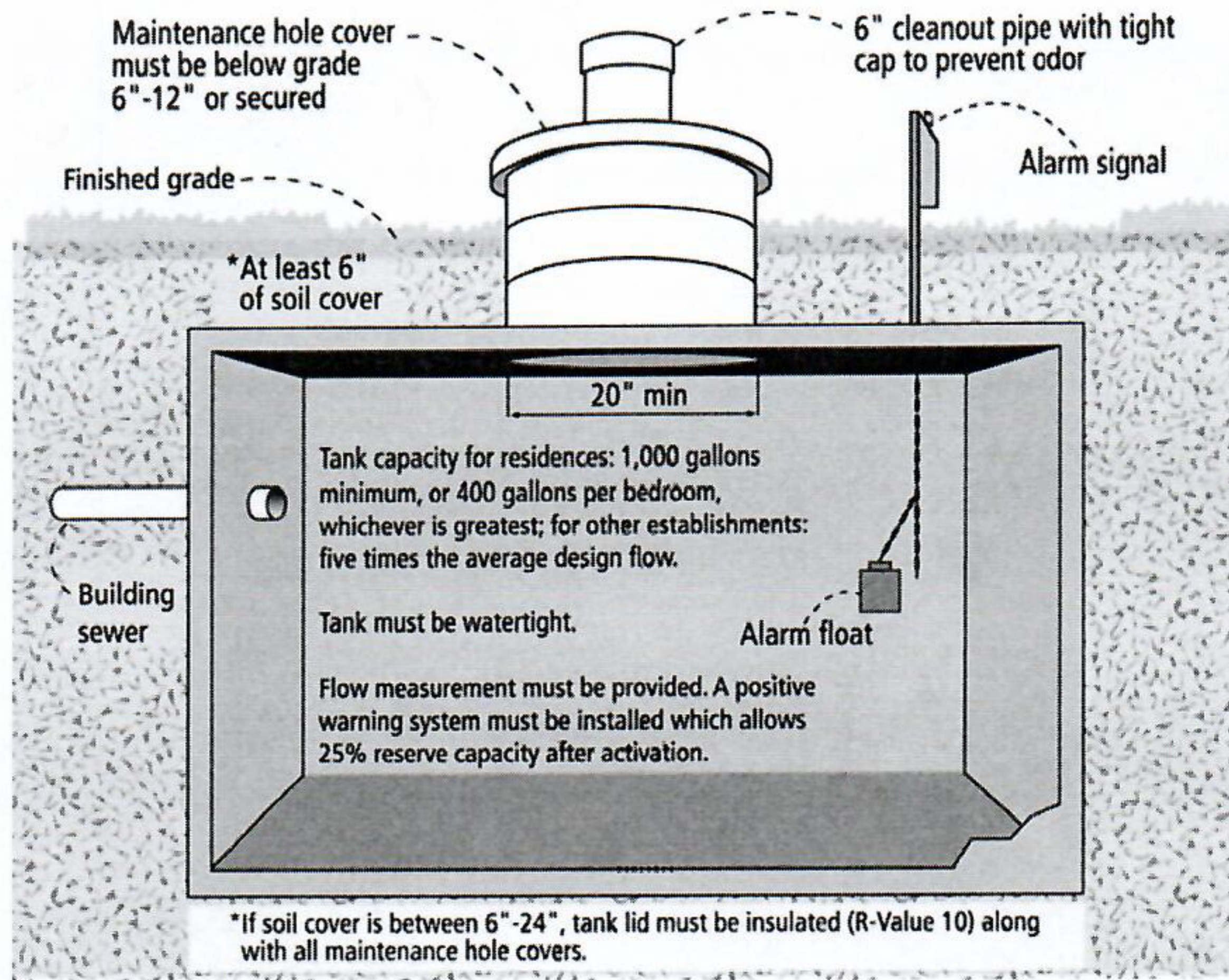
For a copy of the *Septic System Owner's Guide*, call 1-800-876-8636 or go to <http://shop.extension.umn.edu/>

<http://septic.umn.edu>





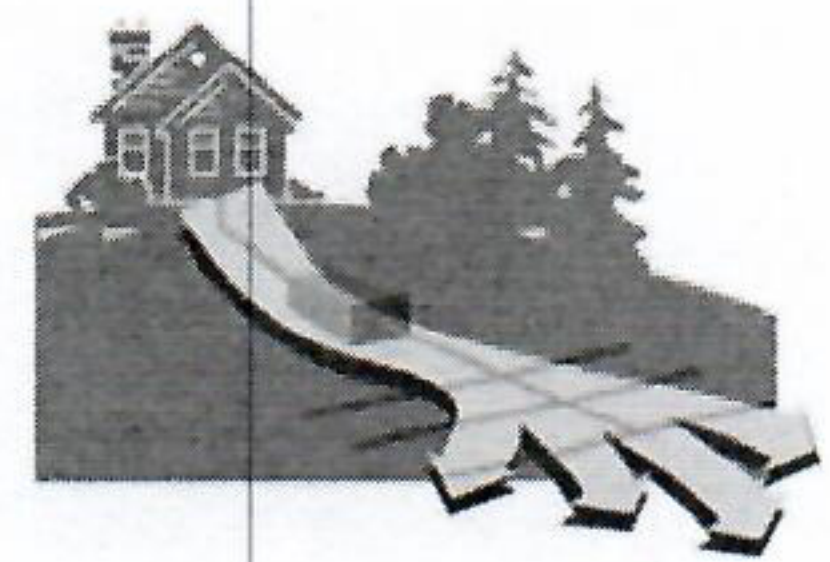
Your Holding Tank



Dwelling Type	Well Construction
Number of bedrooms: <u>RV Park</u> System capacity/ design flow (gpd): <u>1,900</u> Anticipated average daily flow (gpd): <u>1,000</u> Comments <u>Holding Tanks Only</u> In-home business? <u>    </u> What type? <u>    </u> Number of occupants <u>    </u>	Well depth (ft): <u>    </u> <input type="checkbox"/> Cased well Casing depth: <u>    </u> <input type="checkbox"/> Other (specify): <u>    </u> Distance from septic (ft): <u>200 ft+</u> Is the well on the design drawing? <input type="radio"/> Y <input checked="" type="radio"/> N

Holding Tank	
<input type="radio"/> One tank: Tank volume: <u>2500 x 4</u> gallons <input type="radio"/> Two tanks: Tank volume: <u>    </u> gallons <input type="checkbox"/> Tank is constructed of <u>pre cast concrete</u>	<input type="checkbox"/> Flow measurement device: <u>mechanical float</u> <input type="checkbox"/> Location: <u>Holding tank manhole cover</u> <input type="checkbox"/> Alarm <input checked="" type="checkbox"/> visual <input type="checkbox"/> audible <input type="checkbox"/> Reserve %: <u>75</u>
<input type="checkbox"/> Service contract held by: <u>Timber Lakes Septic</u> <input checked="" type="checkbox"/> Service contract is attached to this management plan	





## Homeowner Management Tasks

These *operation and maintenance* activities are your responsibility. Use the chart on page 6 to track your activities.

Identify the service intervals recommended by your system designer and your local government. The tank assessment for your system will be the **shortest interval of these three intervals**. Your pumper/maintainer will determine if your tank needs to be pumped.

Tank capacity ÷ (# of occupants X 50 Gallons/day) = # of days between cleaning

OR

Within 24 hours of alarm signal

System Designer: check every 30 days

Local Government: check every \_\_\_\_\_ days

<p>My tank needs to be emptied every _____ days</p>
---

### Seasonally

- Monitor alarm daily – make sure the alarm has not signaled. Alarms signal when your holding tank is nearly full; contact your maintainer.
- Measure and note your average daily water usage on page 5. Conserving water saves you money!
- Leaks. Check (listen, look) for leaks in toilets and dripping faucets. Repair leaks promptly.

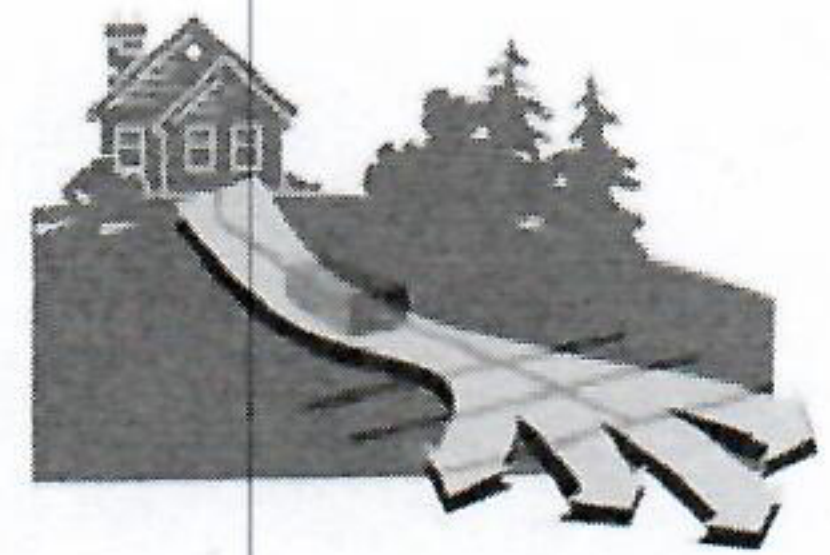
### Annually

- Establish a contract for tank cleaning services with a state licensed maintenance business.
- Caps. Make sure that all caps and lids are intact and in place. Inspect for damaged caps at least every fall. Fix or replace damaged caps before winter to help prevent freezing issues.
- Water conditioning devices. See Page 5 for a list of devices. When possible, discharge clear water sources to another location. Program the recharge frequency based on *water demand (gallons)* rather than *time (days)*. Recharging too frequently will result in increased pumping costs.
- Review your water usage rate. Review the Water Use Appliance chart on Page 5. Discuss any major changes with your pumper/maintainer.

### During each visit by a pumper/maintainer

- Ask if your pumper/maintainer is licensed in Minnesota.
- Make sure that your pumper/maintainer has clear access to the holding tank and completely empties the tank
- Ask your pumper/maintainer to accomplish the tasks listed on the Professional Tasks on Page 4.





## Professional Management Tasks

*These are the operation and maintenance activities that a pumper/maintainer performs to help ensure long-term performance of your system. Professionals should refer to the O/M Manual for detailed checklists for tanks, pumps, alarms and other components. Call 800-322-8642 for more details.*

- Written record provided to homeowner after each visit.

### Plumbing/Source of Wastewater

- Review the Water Use Appliance Chart on Page 5 with homeowner. Discuss any changes in water use and the impact those changes may have on the frequency of maintenance.
- Review and document water usage rates with homeowner.

### Holding Tanks

- Maintenance hole lid.* A riser is recommended if the lid is not accessible from the ground surface. Insulate the riser cover for frost protection.
- Liquid level.* Check to make sure the tank is not leaking.
- Inspection pipes.* Replace damaged caps.
- Alarm.* Verify that the alarm works and that there is at least 25% reserve capacity.
- End of year seasonal property pumping.* Remind homeowner of most frequent causes of tank and building sewer freeze-ups. Ensure that there are no "micro-sources" of water such as a high efficiency furnace or other dripping devices. Determine a logical winter water use plan that will not result in need for emergency visit(s).

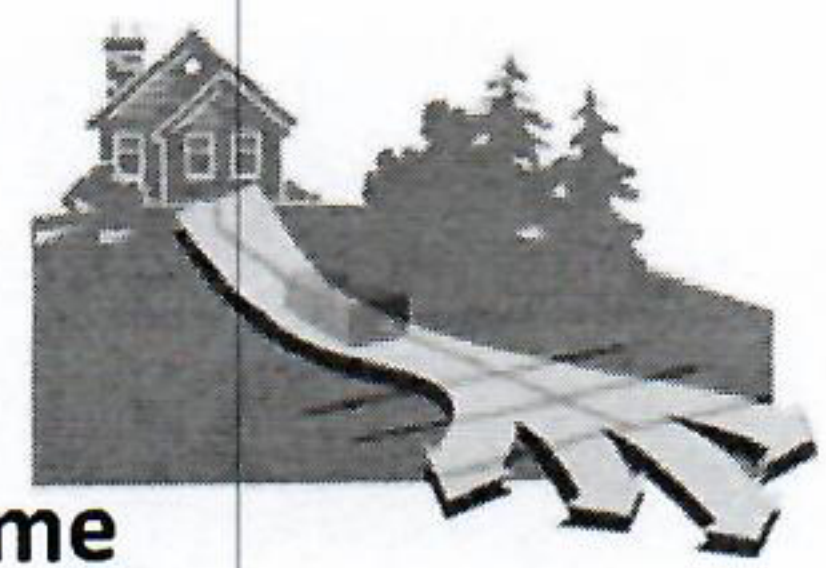
**All other components – inspect as listed here:**

---

---

---





**Water-Use Appliances and Equipment in the Home**

Appliance	Impacts on Holding Tank	Management Tips
Garbage disposal	<ul style="list-style-type: none"> <li>• Uses water and increases pumping frequency and expense.</li> </ul>	<ul style="list-style-type: none"> <li>• Use of a garbage disposal is not recommended.</li> <li>• Minimize garbage disposal use. Compost instead.</li> </ul>
Washing machine	<ul style="list-style-type: none"> <li>• Uses water and increases pumping frequency and expense.</li> </ul>	<ul style="list-style-type: none"> <li>• Choose a front-loader or water-saving top-loader, these units use less water than older models.</li> <li>• Wash only full loads.</li> <li>• Do laundry off site.</li> </ul>
Dishwasher	<ul style="list-style-type: none"> <li>• Uses water and increases pumping frequency and expense.</li> </ul>	<ul style="list-style-type: none"> <li>• Wash only full loads.</li> </ul>
Large bathtub (whirlpool)	<ul style="list-style-type: none"> <li>• Uses water and increases pumping frequency and expense.</li> </ul>	<ul style="list-style-type: none"> <li>• Take short showers to conserve water.</li> </ul>
Clear Water Uses	Impacts on Holding Tank	Management Tips
High-efficiency furnace	<ul style="list-style-type: none"> <li>• Drip may result in frozen pipes during cold weather.</li> </ul>	<ul style="list-style-type: none"> <li>• Re-route water into a sump pump or directly out of the house. Do not route furnace recharge to your holding tank.</li> </ul>
Water softener Iron filter Reverse osmosis	<ul style="list-style-type: none"> <li>• Uses water and increases pumping frequency and expense.</li> </ul>	<ul style="list-style-type: none"> <li>• These sources produce water that is not sewage and should not go into your holding tank.</li> <li>• Reroute water from these sources to another outlet, such as a dry well, drain tile or old drainfield.</li> </ul>
Surface drainage Footing drains	<ul style="list-style-type: none"> <li>• Uses water and increases pumping frequency and expense.</li> </ul>	<ul style="list-style-type: none"> <li>• When replacing, consider using a demand-based recharge vs. a time-based recharge.</li> <li>• Check valves to ensure proper operation; have unit serviced per manufacturer directions</li> </ul>

**Maintenance Log**

Track maintenance activities here for easy reference. See list of management tasks on pages 3 and 4.

Activity	Date accomplished/measured water usage									
<b>Check daily for a period of time and weekly once average use is determined:</b>										
Water usage rate (gallons per day)										
Leaks: check for plumbing leaks										
<b>Annually:</b>										
Establish and maintain contract for holding tank pumping services										
Water use appliances – review use										







HOLDING TANK PUMPING SERVICE AGREEMENT

Permit # \_\_\_\_\_ Address 24552 385<sup>th</sup> Ave, Aitkin

THIS AGREEMENT, entered into by and between Aitkin County Registered Septic Tank Pumper, Timber Lakes Septic Service, hereinafter referred to as "Contractor", and Veterans Park 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 6/6/24 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.

[Signature]  
Contractor

Date 6/4/24

[Signature]  
Homeowner

Date \_\_\_\_\_



Property Owner/Client:

Property Address:

Date Completed:

Elevations in feet      Benchmark:  ft      BM Location -

**Primary STA**

**Elevations From Soil Logs**

STA Area	Soil Observation Location Elev	Restrictive Layer Depth	Restrictive Layer Elev
Corner 1 <input type="text"/> ft	SO 1 <input type="text"/> ft	<input type="text"/> inches	<input type="text"/> ft
Corner 2 <input type="text"/> ft	SO 2 <input type="text"/> ft	<input type="text"/> inches	<input type="text"/> ft
Corner 3 <input type="text"/> ft	SO 3 <input type="text"/> ft	<input type="text"/> inches	<input type="text"/> ft
Corner 4 <input type="text"/> ft	SO 4 <input type="text"/> ft	<input type="text"/> inches	<input type="text"/> ft
Average Slope <input type="text" value="3.0"/> %	SO 5 <input type="text"/> ft	<input type="text"/> inches	<input type="text"/> ft
	SO 6 <input type="text"/> ft	<input type="text"/> inches	<input type="text"/> ft
	SO 7 <input type="text"/> ft	<input type="text"/> inches	<input type="text"/> ft

**Mound**

**Mound Dimensions** *details in mound design*

**Corners**

Upslope Elevation (ground)	<input type="text"/> ft
Sand Top Designed <input type="text"/> in @	<input type="text"/> ft
Distribution Bottom 7080 Min	<input type="text"/> ft
Bottom of Laterals (+0.5' min)	<input type="text"/> ft
Top of Media (+0.3' min)	<input type="text"/> ft
Top of System (+1.0') Rockbed edge	<input type="text"/> ft

Width	Length	
<input type="text"/> ft	<input type="text"/> ft	Rockbed
<input type="text"/> ft	<input type="text"/> ft	Absorption Area
<input type="text"/> ft	<input type="text"/> ft	Berm

1      2  
 3      4  
 Site Plan and Label  
 Corners

**Atgrade**

**At Grade Dimensions** *details in atgrade design*

Upslope Elevation (ground)	<input type="text"/> ft
Bottom of Laterals (+0.5' min)	<input type="text"/> ft
Top of Media (+0.3' min)	<input type="text"/> ft
Top of System (+1.0')	<input type="text"/> ft

Width	Length	
<input type="text"/> ft	<input type="text"/> ft	Rockbed/Absorption
<input type="text"/> ft	<input type="text"/> ft	Berm

**Trenches**

*details in trench design*

Total Length  ft long      Width  ft      Total Area  ft<sup>2</sup>

	Ground Elevation	Max. Depth	Design Depth	Trench Length
#1	<input type="text"/> ft	<input type="text"/> in	<input type="text"/> in	<input type="text"/> ft
#2	<input type="text"/> ft	<input type="text"/> ft	<input type="text"/> ft	<input type="text"/> ft
#3	<input type="text"/> ft	<input type="text"/> ft	<input type="text"/> ft	<input type="text"/> ft
#4	<input type="text"/> ft	<input type="text"/> ft	<input type="text"/> ft	<input type="text"/> ft
#5	<input type="text"/> ft	<input type="text"/> ft	<input type="text"/> ft	<input type="text"/> ft
#6	<input type="text"/> ft	<input type="text"/> ft	<input type="text"/> ft	<input type="text"/> ft
#7	<input type="text"/> ft	<input type="text"/> ft	<input type="text"/> ft	<input type="text"/> ft

Trenches at  ft long

**Bed**

**Bed Corners**

**Bed Dimensions** *details in bed design*

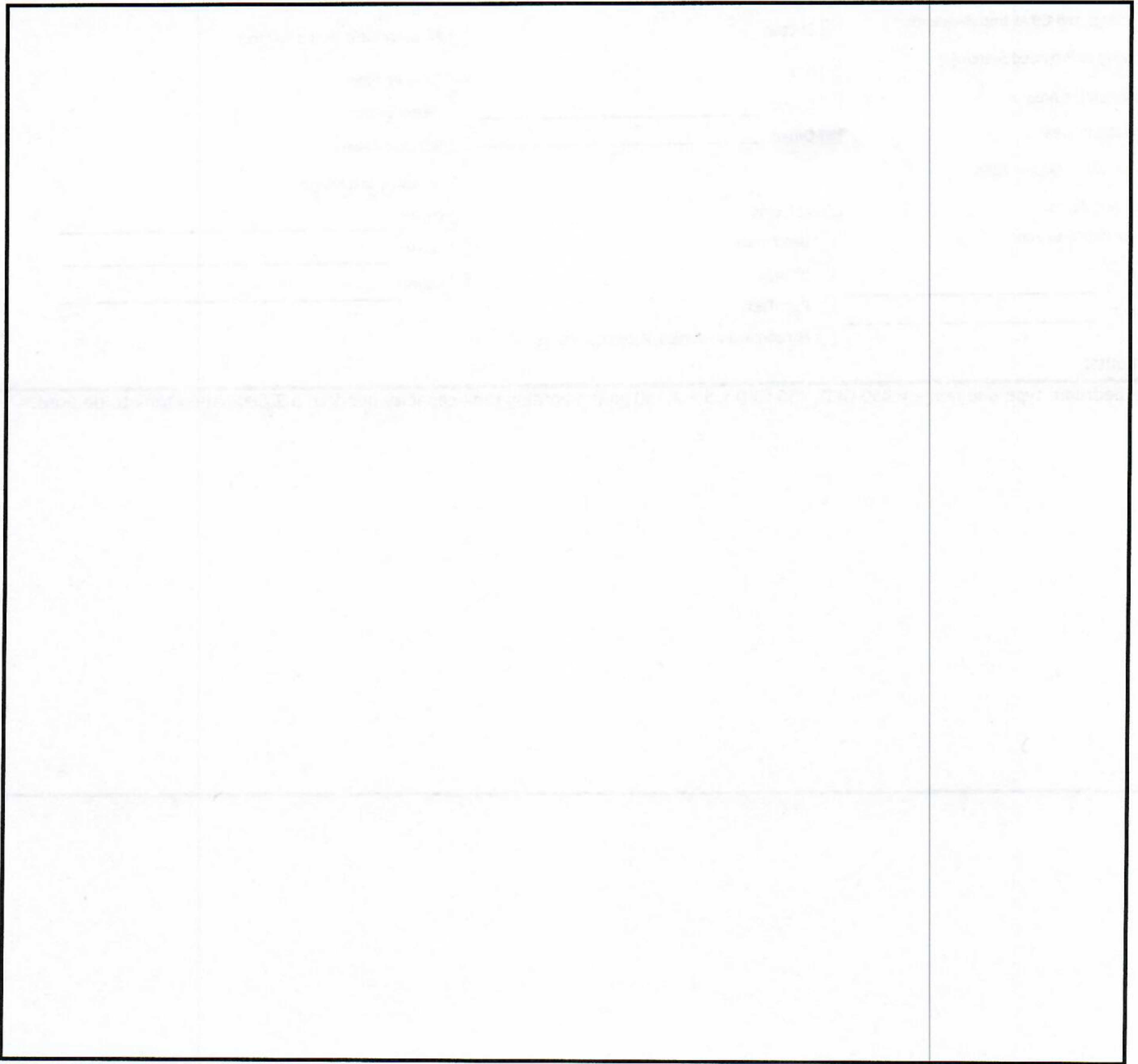
Upslope Elevation (ground)	<input type="text"/> ft
Bottom of Bed (excavation depth)	<input type="text"/> ft
Bottom of Laterals (+0.5' min)	<input type="text"/> ft
Top of Media (+0.3' min)	<input type="text"/> ft
Top of System (+1.0')	<input type="text"/> ft

Corner 1	<input type="text"/> ft
Corner 2	<input type="text"/> ft
Corner 3	<input type="text"/> ft
Corner 4	<input type="text"/> ft

Width	Length	
<input type="text"/> ft	<input type="text"/> ft	Rockbed



Property Owner/Client: Ammon & Rachel Miller

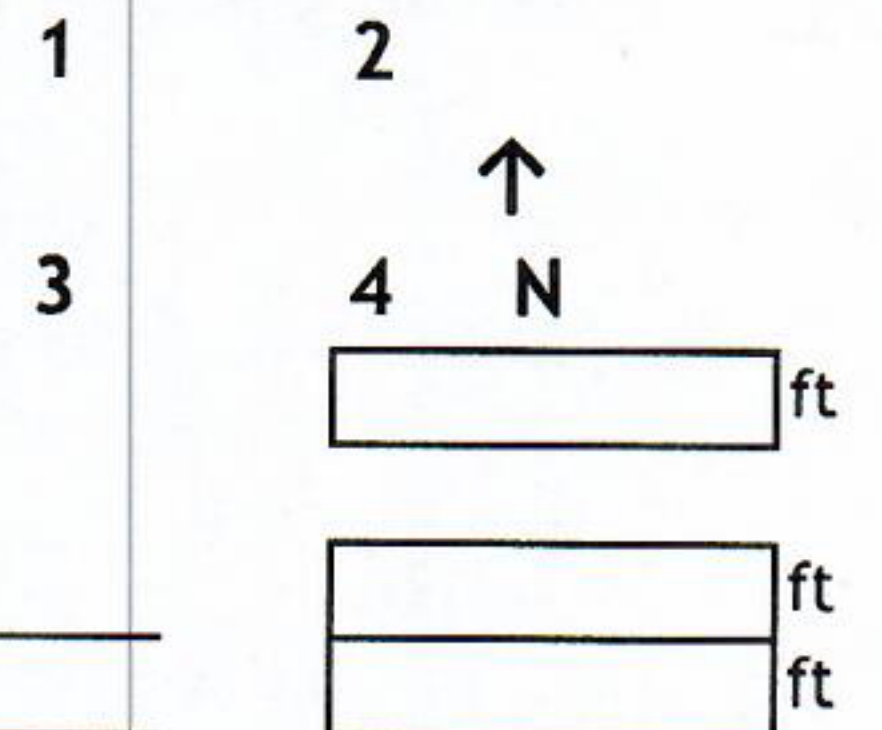


Map scale:

Indicated north

Show slope/contours

**System Corners**



**Elevations in feet**

Benchmark Elev:  ft

Benchmark Location:

**System Corners:**

Corner 1  ft  
 Corner 2  ft  
 Corner 3  ft  
 Corner 4  ft

**Soil Observation:**

#1:  ft  
 #2:  ft  
 #3:  ft  
 #4:  ft

Tank Outlet:  ft

Other:

Date Completed: