

Preliminary & Field Evaluation Form

Tank Replacement

www.SepticResource.com vers 12.4

Owner Information			
Date	<u>10/6/2023</u>	Sec / Twp / Rng	<u>S-4, T-46, R-27</u>
Parcel ID	<u>07-1-152400</u>	LUG (county, city, township)	<u>Aitkin Co.</u>
Property Owner:	<u>Bryan Murdoff</u>	Owners address (if different)	
Property Address:	<u>43007 333rd Ln. Aitkin MN 56431</u>	<u>5790 Drake Dr</u>	
City / State / Zip:		<u>Independence MN 55359</u>	

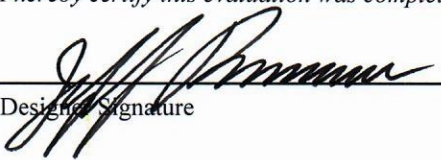
Flow Information and Waste Type / Strength			
Estimated Design flow	<u>300</u>	Anticipated Waste strength	<input type="checkbox"/> Hi Strength <input checked="" type="checkbox"/> Domestic
Comments: Septic / Pump Tank replacement only Existing Mound is Compliant 9/25/2023 Install 1650 Jacobson 2/Compartment Septic / Pump Tank.		Any Non-Domestic Waste	<input type="checkbox"/> Yes (class V) <input checked="" type="checkbox"/> No
		Sewage ejector/grinder pump	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Water softener	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Garbage Disposal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Daycare / In home business	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Site Information					
Existing & proposed lot improvements located (see site map)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Well casing depth	Existing deep well	
Easements on lot located (see site map)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Drainfield w/in 100' of residential well	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Property lines determined (see site map)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Site w/in 200' of transient noncommunity water supply (TNCWS)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Req'd setbacks determined (see site map)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Site w/in an inner wellhead mgmt zone (CWS/NTNCWS)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Utilities located & identified (gopher state one call)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Buried water supply pipe w/in 50' of system	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Access for system maintenance (shown on site map)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Site located in Shoreland (w/in 1000' of lake, 300' of river)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Soil treatment area protected	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Site map prepared with previous items included	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Construction related issues	<u>Replace is same location, slightly different angle.</u> <u>Tight between house and mound rockbed.</u>				

Soil Information

	Tank Replacement Only		
Original soils	<input type="checkbox"/> Yes <input type="checkbox"/> No	Evidence of site:	
Soil logs completed and attached	<input type="checkbox"/> Yes <input type="checkbox"/> No	Cut	<input type="checkbox"/> Yes <input type="checkbox"/> No
Soil loading rate (gpd/ft ²)	_____	Filled	<input type="checkbox"/> Yes <input type="checkbox"/> No
Depth/elev to SHWT	_____	Compacted	<input type="checkbox"/> Yes <input type="checkbox"/> No
Depth to system bottom maximum (or elev minimum)	_____	Disturbed	<input type="checkbox"/> Yes <input type="checkbox"/> No
Depth/elev to standing water (if applicable)	_____	Perk test completed and attached (if applicable)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Depth/elev to bedrock (if applicable)	_____	Percolation rate (if applicable)	_____
Soil Survey information determined (see attachment)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Flooding or run-on potential (comments)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Differences between soil survey and field evaluation (if applicable)	_____		

I hereby certify this evaluation was completed in accordance with MN 7080 and any local req's.



 Designer Signature

Brummer Septic LLC.

 Company

L-1347

 License #

{ Tank Replacement Notes }

Property Owner: Bryan Murdoff Date: 10/6/2023 Designer's Initials : JB
Parcel ID. Number : 07-1-152400 Address : 43007 33rd Ln. Aitkin MN 56431

Tank Replacement

- 1 Existing mound is Compliant (9/25/2023), reuse mound.
System and tank will meet Deep well setbacks, house setback, wetland setback, lake setback.
- 2 See note from Aitkin Co on lake setback measurement. (Pages 7 & 8)
- 3 Pump and remove existing tank. Very tight to existing mound. May reuse 2" supply pipe if possible.
Keep new tank 10 ft from house , will be 53 ft from deep well.
Install cleanout at connection to existing sewer pipe. Air test required less than 50 ft to deep well.
- 4 Order 1650 Jacobson 2/Compartment tank with side inlet.
Install tank parallel to house, close to same location as old tank.
May install tank higher, and landscape cover soil to shed surface water away from tank location.
Insulate top of tank. Install pump capable of 25 GPM at 20 ft of head, install electric alarm.
- 5 Existing rockbed install notes 10' x 25', 3 laterals, 1/4" perfs spaced 30" apart
Approx. 33 perfs x .74 gpm = 24.4 GPM
- 6 Raise manholes to above finished grade, recommend 4" above finished grade.
- 7 The bench mark is the nail on the tree near Deep Well area, BM = Elv. 100'.
Installer to double check bench mark. Installer should confirm bench mark and sand height Elv. with inspector.
Installer should record bench mark Elv. and sand height on installation inspection form.
Top of Deep Well Cap Elv. = 100'
- 8 The Jacobson 1650 compartment tank will be gravity flow from dwelling. Install the pump for 6 demand doses per day. approx. 50 gallons per dose, 3.9 inches of tank level. Install alarm at 3 inches from pump on level.
Connect to existing mound 2" supply pipe, make sure pipe drains back to pump tank.

No Warranty or guaranty on condition of mound.

Recommend Installing an Effluent filter and Alarm on septic tank outlet.
MPCA Recommends installing an event counter on all systems with a pump.

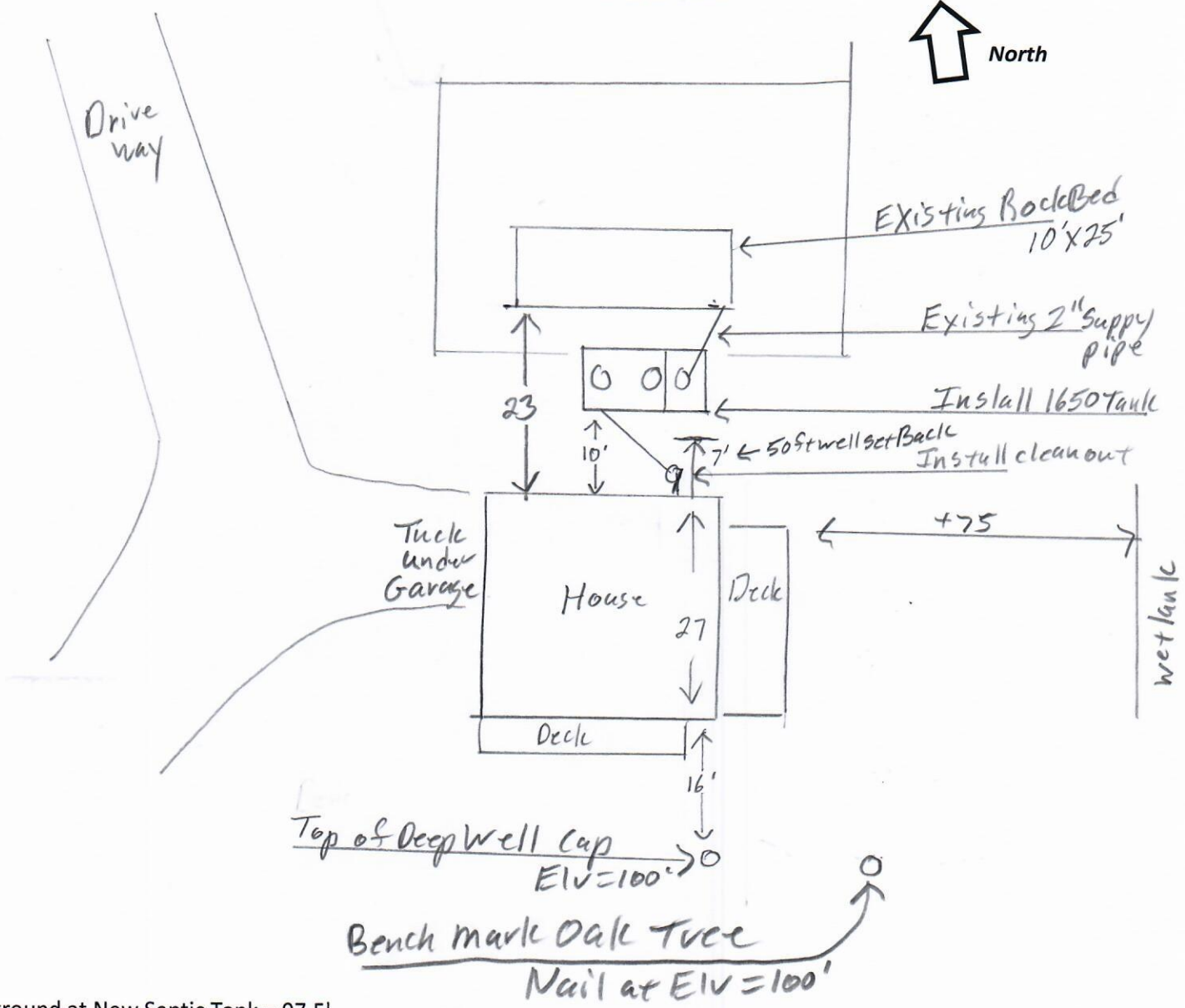
Designed to Aitkin Co. and MPCA recommendations and requirements.



Designer Signature Design Company License# L-1347
 Brummer Septic LLC.

{ Inspection Drawing }

Property Owner: Bryan Murdoff Date: 10/6/2023 Designer's Initials: JB
 Parcel ID. Number: 07-1-152400 Address: 43007 33rd Ln. Aitkin MN 56431
 Aitkin Co. One Inch = 20 ft.'



Elv. Of ground at New Septic Tank = 97.5'
 Estimated New Inlet Septic Tank Elv. = 96.5'
 Top of Existing 2" supply Pipe Elv. = 96.8'
 Top of Existing sewer pipe at house Elv. = 97.4'

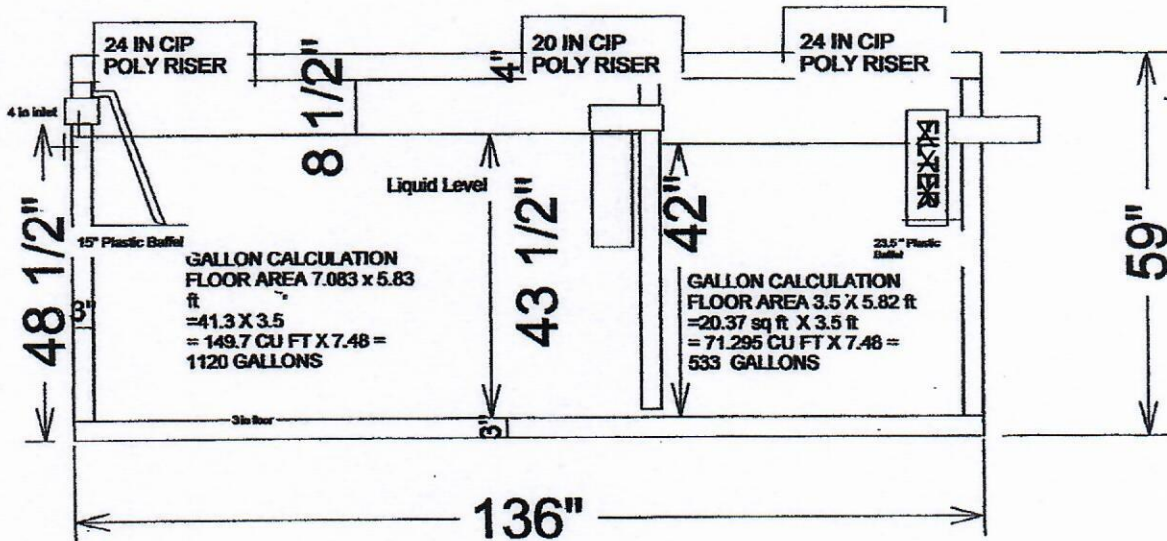
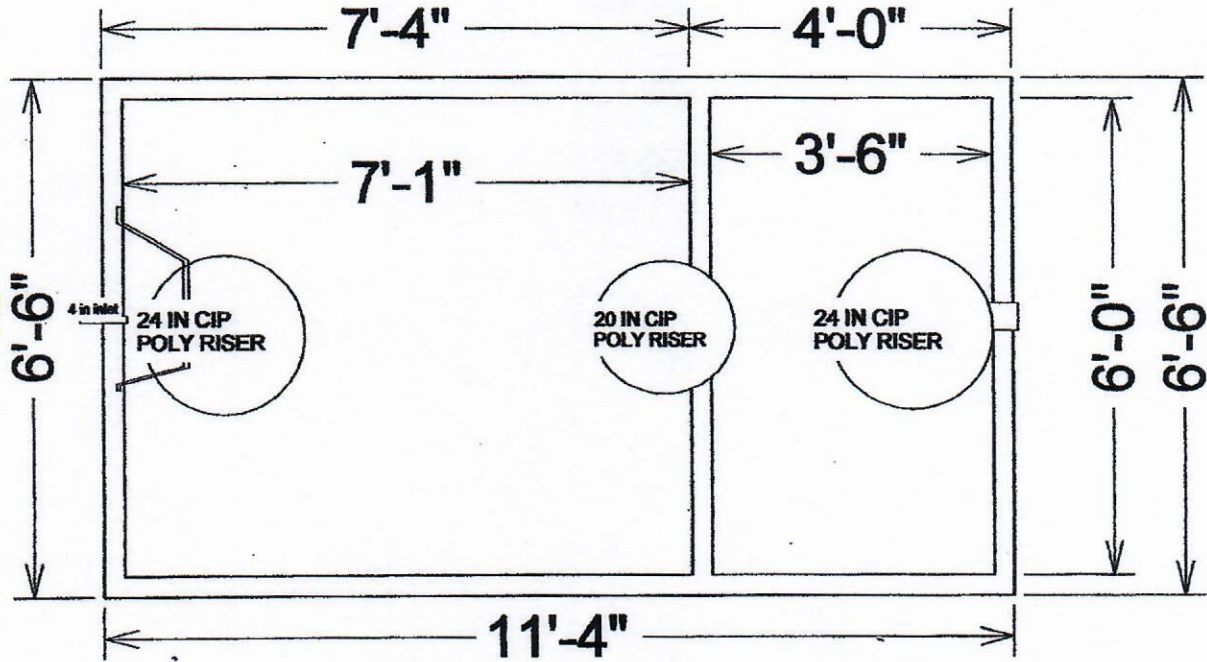
Bench Mark Elv. = 100' Top of Deep Well Cap
 Ground at well Elv. = 98.3'

Grade at NE corner of house Elv. = 99.1'
 Grade near Center of mound Elv. = 97.4'
 Elv. Of Top of rock bed Elv. = 96.6'

Estimated Wetland Elv. = 85'

1650 Gallon 2 Compartment Septic Tank

TOP VIEW



SIDE VIEW

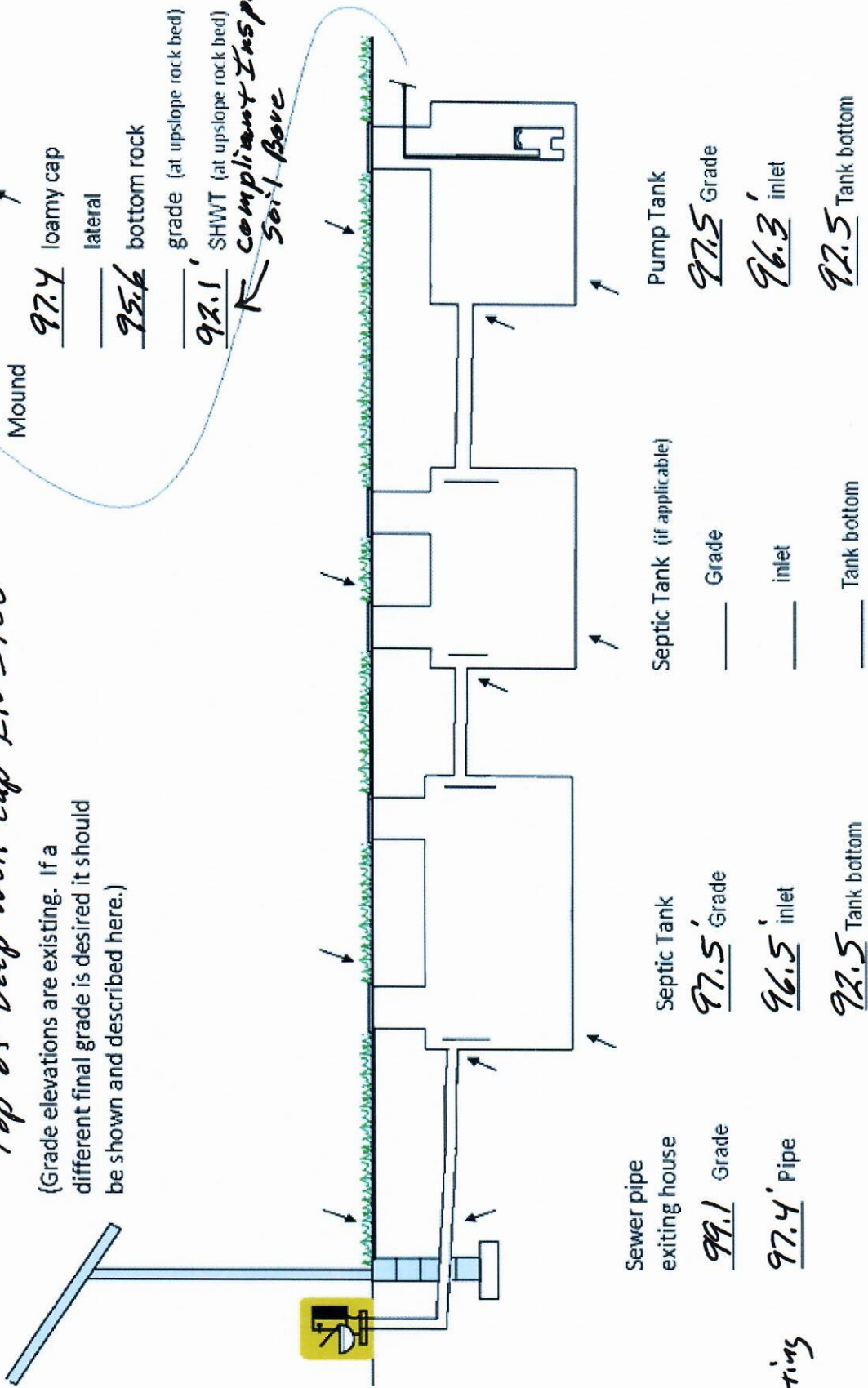
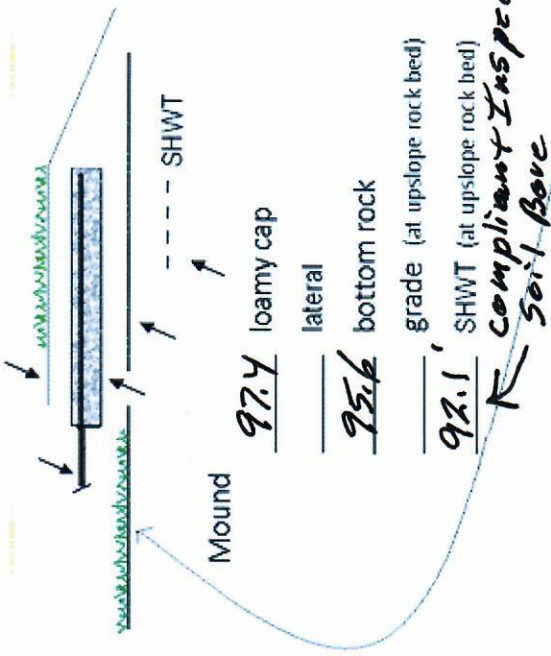
$533 / 42" = 12.69 \text{ GPI}$

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

System Elevations

ELV = 100' benchmark Nail on Oak Tree
Top of Deep Well Cap ELV = 100'

(Grade elevations are existing. If a different final grade is desired it should be shown and described here.)



Wood/Murdoff

1 message

Connor Plagge <connor.plagge@co.aitkin.mn.us>
To: "brummerseptic@gmail.com" <brummerseptic@gmail.com>

Thu, Sep 28, 2023 at 4:26 PM

Hey Jeff,

I have attached the document you requested about the Murdoff/Wood Property. It appears the wetland to the East is not classified as Lake Four and the setback would not apply in that area. I have attached an image where the setbacks would apply and the distances from the house to the OHWL.

Please let me know if I can do anything else.

Thank you,

Connor Plagge

Aitkin County Planning & Zoning

Zoning Officer


307 2nd Street NW

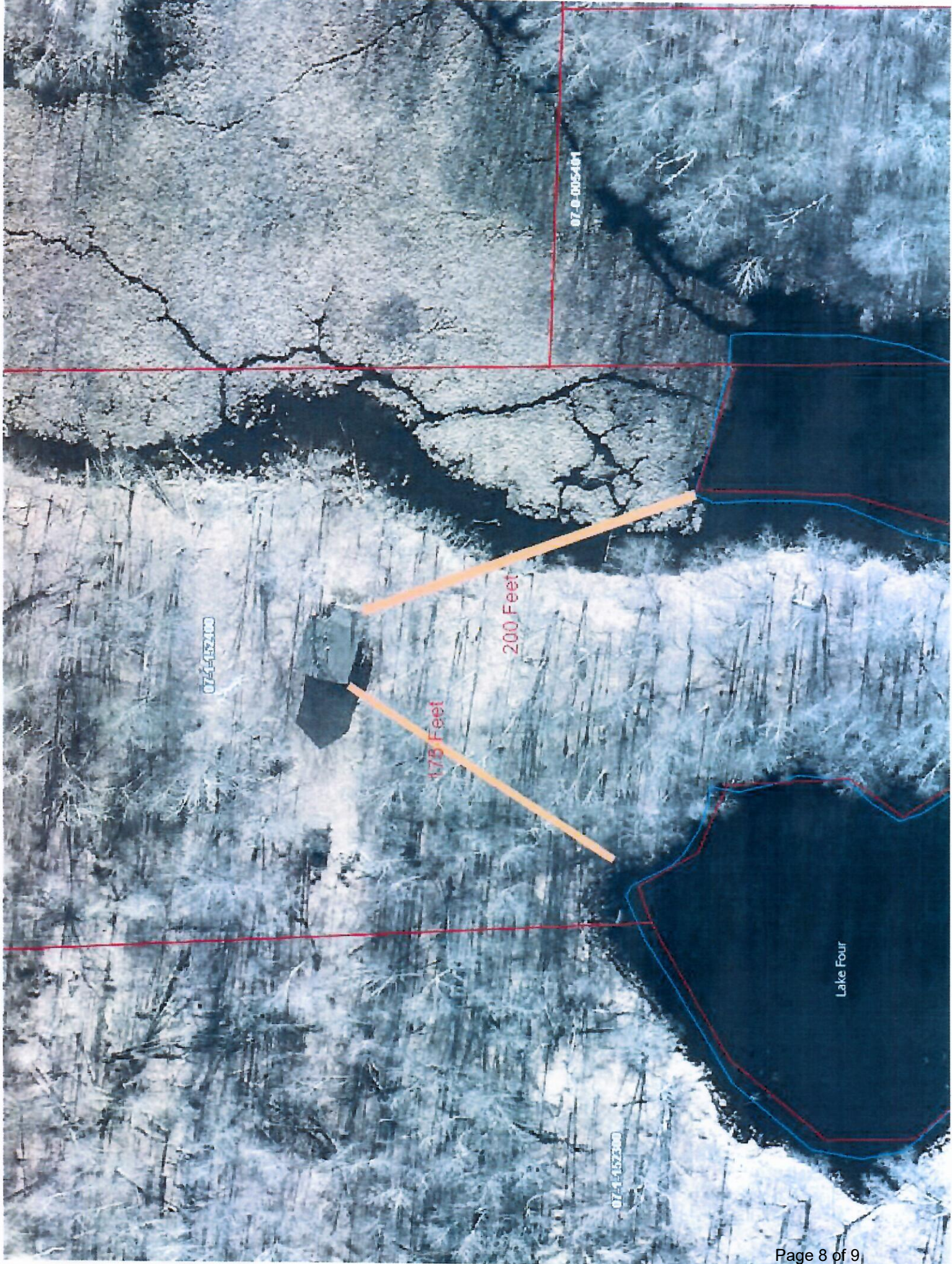
Aitkin, MN 56431

218-927-7378

connor.plagge@co.aitkin.mn.us

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 **Murdoff_Wood_Property.pdf**
373K



074-152100

07-G-005401

175 Feet

200 Feet

Lake Four

074-152300



Detailed Parcel Report

Parcel Number: 07-1-152400

General Information

Township/City: FARM ISLAND TWP
 Taxpayer Name: WOOD, BETHANY & MURDOFF, BRYAN
 Taxpayer Address: 5790 DRAKE DR
 INDEPENDENCE MN 55359
 Property Address: 43007 333rd Ln
 Township: 46 Lake Number: 1016200
 Range: 27 Lake Name: FOUR LAKE *NE*
 Section: 4 Acres: 0.00
 Green Acres: No School District: 1.00
 Plat: BLUE RIDGE ESTATES
 Brief Legal Description: LOT 12 BLK 5

Tax Information

Class Code 1: Non-Comm Seasonal Residential Recreational
 Class Code 2: Unclassified
 Class Code 3: Unclassified
 Homestead: Non Homestead
 Assessment Year: 2023

Estimated Land Value:	\$111,800.00
Estimated Building Value:	\$120,200.00
Estimated Total Value:	<u>\$232,000.00</u>
Prior Year Total Taxable Value:	\$196,200.00
Current Year Net Tax (Specials Not Included):	\$1,108.00
Total Special Assessments:	\$0.00
**Current Year Balance Not Including Penalty:	\$554.00
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.