

Aitkin County Holding Tank Design

Property Owner: Donald Jarvis Date: 1/3/2024 Cell: 218-206-5784
 Mailing Address: 78 Jarvis Dr. (dljarvis@gmail.com) Home Phone #: 218-879-3914
 City: Esko State: MN Zip: 55733
 Site Address: 46895 156th Pl. Parcel Number: 10-1-064000
 City: Tamarack State: MN Zip: 55787
 Driving Directions if no address issued : _____

Legal Description : Lot 10 BLK3 Wenonah Beach
 Sec : 31 Twp.: 49 Range : 22 Twp. Name : Haugen
 Lake / River : Round Lake Lake / River Classification : RD

FLOW DATA
 Number of Bedrooms : 2
 Dwelling Classification : I
 System Type : II
 Gallons per Day (GPD) : 300

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 : +55' Drainfield to Well : NA Sewer Line to Well : _____
 Tank(s) to House : +28' Drainfield to House : NA Air Test YES
 Tank(s) to Property Line : +10' Drainfield to Property Line : NA

Additional System Notes and Information: _____

Existing Tanks are to be pumped, collapsed, filled or removed. Both tanks leak surface water into them
Lot is too small for a type I septic system
Install a Wieser 2000 gal. holding tank, manual alarm.

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: 1/3/2024

Aitkin County { Design Notes }

Property Owner: Donald Jarvis Date: 1/3/2024 Designer's Initials : JB
Pin : 10-1-064000

Existing House has a 2 holding tank system, they both leak surface water into them.
Lot is too small for Type I system. Proposed deep well will be + 50' from new tank.

Installer should be aware of high static water in ground area of tank.

Wieser say's tanks are water tight. Installer should double check when ordering tank.

Install 2000 gal 1/Compartment Wieser Holding tank, recommend the Low Profile one.

Install with gravity flow from house. There maybe (are) 2 sewer pipes coming out of the East side of the house.

Owner states there is one under the bathroom window and there is a clean-out 8 ft north of there.

Installer should install new sewer pipe from house to new holding tank, air test new pipe.

Install clean-out near house.

Raise at least one manhole per compartment,

(Owner wants both manholes raised to above finished grade, install manual alarm in one of them).

Install Manual alarm in holding tank with alarm at approx. 75% of capacity. (approx. 27" from bottom)

this will leave approx. 500 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 Round Lake setback.

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

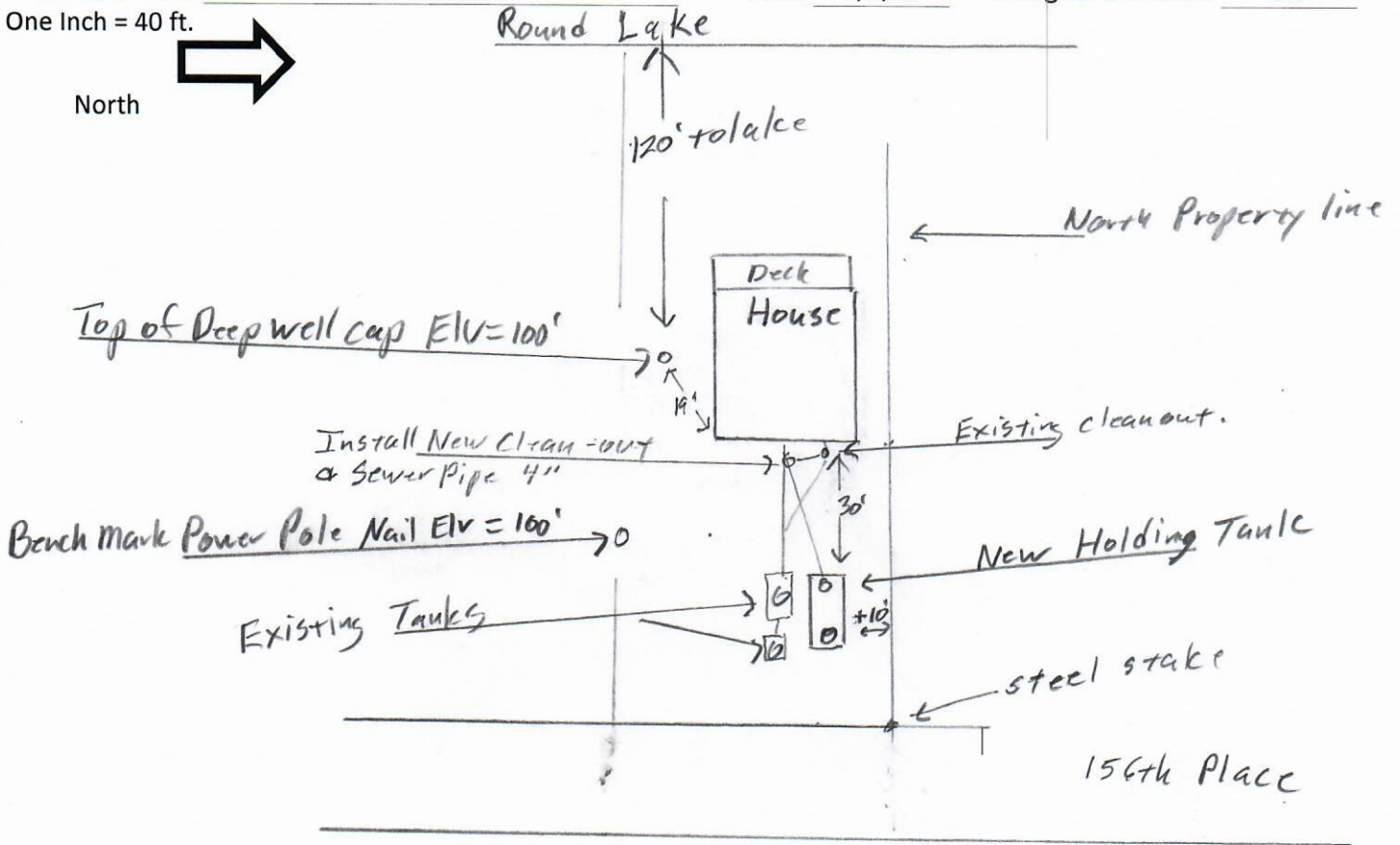
Designer Signature :  Date: 1/3/2024

Aitkin County { Holding Tank Design }

Property Owner: Donald Jarvis Date: 1/3/24 Designer's Initials: JB

One Inch = 40 ft.

North 



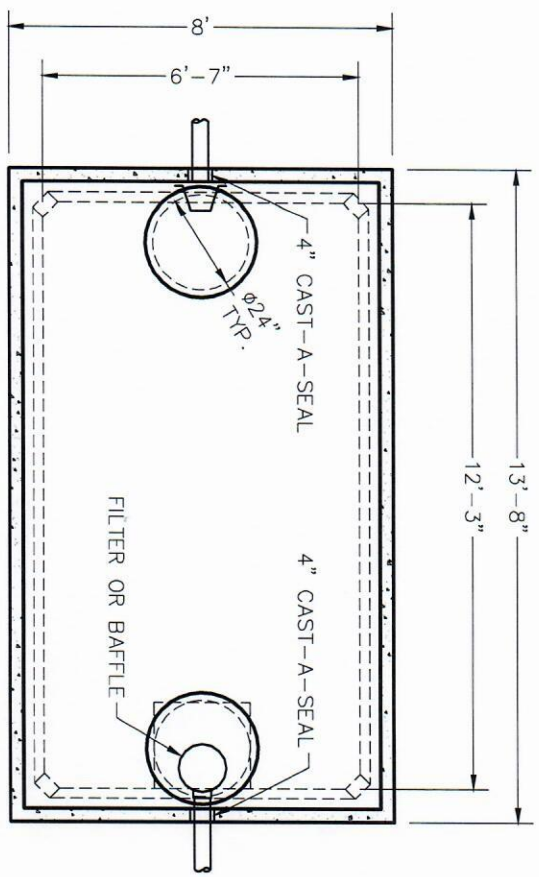
(Top of Ice) Round Lake Elv. = 91.6 on 1/03/2024

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

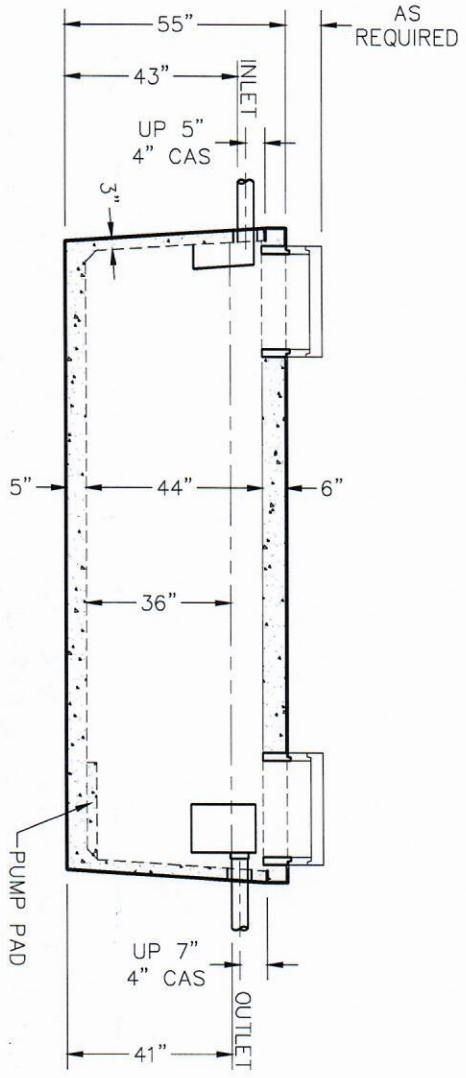
Wells within 100ft. Of Drain field.	Disturbed/Compacted Areas	Access Route for Tank Maintenance
Water lines within 10 ft. of Drain field.	Component Location	Property Lines
Drain field Areas:	OHW ordinary high water	Structures
	Lot Easements	Setbacks

Elevations : Benchmark Elevation:	Elv. = 100' Nail on Power pole South lot line
Existing tank grade Elv. = 100.1'	Grade at East side of house Elv. = 98.9'
Existing tank inlet Elv. = 97' (Estimated)	Estimated sewer pipe at house Elv. = 97.3'
New Tank Grade Elv. = 100'	Estimated New Tank Inlet Elv. = 97'
Static Water Level in Existing Tank Elv. = 98.5'	

TANKS ARE MANUFACTURED TO MEET OR EXCEED ASTM C-1227 REQUIREMENTS



TOP VIEW



SIDE VIEW

WLP2000-MR TANK SPECIFICATIONS

DIMENSIONS:

- WALL: 3"
- BOTTOM: 5"
- COVER: 6"
- MANHOLE: 24" I.D. PRECAST CONCRETE RISER
- HEIGHT: 55"
- LENGTH: 13'-8"
- WIDTH: 8'-0"
- BELOW INLET: 43"
- LIQUID LEVEL: 36"
- WEIGHT: BOTTOM 14,060 LBS.
COVER 8,170 LBS.

INLET AND OUTLET:

- 4" CAST-A-SEAL BOOT OR EQUAL GASKET
- INLET AND OUTLET BAFFLE AND FILTER:
WISCONSIN, SEE DETAIL #10
(OTHER STATES SEE CHART)

LIQUID CAPACITY: 56.27 GAL/IN

- HOLDING TANK:**
- OUTLET HOLE PLUGGED
- ACTUAL CAPACITY: 2,138 GALLONS

LOADING DESIGN: 8'-0" UNSATURATED SOIL

- TANK CAN BE USED AS:
SEPTIC / HOLDING / PUMP OR SIPHON

- COVER: MIX DESIGN #8 (NO FIBER)
- TANK: MIX DESIGN #9 (SMALL FIBER)

CUSTOMIZED TANKS:
FOR CUSTOM TANKS CONTACT WIESER CONCRETE

REVIEWED BY _____
REVIEW DATE _____

**DRAWINGS SUBMITTED
FOR APPROVAL**

APPROVED BY: _____
APPROVAL DATE: _____
PRODUCTS NEEDED BY: _____

WLP2000-MR SEPTIC MANUAL	WIESE CONCRETE W3716 US HWY 10, MAIDEN ROCK, WI 54750 800-325-8456	SCALE: 1/4" = 1'-0" DRAWN BY: WCP DATE: 00/00/00 FILE: wlp2000-mr	REV. _____ DATE: _____	PRE-POUR: POST-POUR:
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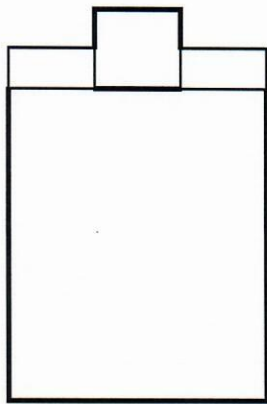
SHEET NO.
1
OF
1

Tank Buoyancy Sheet

Tank ID. Wieser WLP2000 / 2000 gallon low profile Tank

Force of the water surrounding the empty tank = to the water displaced + safety factor.

Water = Lbs. per. Cubic ft. 62.4 Lbs.
 Soil = lbs. per cubic ft. 80.0 Lbs.



← Depth of soil cover on tank
 ↑ Weight of soil cover
 Sq. Ft of tank bottom
 ← Total height of tank 59"
 ↓ Weight of tank
 Safety Factor (1.2 - 1.5)
 Cubic Ft. of tank volume (AxB)
 Weight of Water displaced (E x 62.4)

G	2.0	Ft.
H	12784	Lbs.
A	79.9	
B	4.6	Ft.
C	22230	Lbs.
D	1.5	
E	367.54	
F	22934.5	Lbs.

Total Downward forces on tank (F + H)

I

35718.5

Bouyancy forces on tank (F x D)

J

34401.74

Weight need to be added to tank

K

-1316.75

2000 gallon tanks

1 message

Brian Karlstad <briank@wieserconcrete.com>

Wed, Jan 3, 2024 at 10:12 AM

To: "brummerseptic@gmail.com" <brummerseptic@gmail.com>

Jeff,

The requested drawings are attached for each of our standard 2000 gallon tanks.

Thanks,



W2716 U.S. Hwy 10
Maden Rock, WI 54750



Brian Karlstad

Project Manager

Office: (800) 325-8456

Fax: (715) 647-5181

Military Friendly Employer!

ESGR Patriotic Award 2017



Andy Winkler

715-647-2311

Click on the YouTube icon to check out our clip on Fox Business Network's Manufacturing Marvels

2 attachments

W2000-MR.pdf
81K

WLP20000-MR.pdf
83K

Manufacturers of Sewage Tanks (septic, trash, holding, pump, surge storage, recirculating and other processing tanks)

Wieser Concrete Products, Inc.

W3716 U.S. Highway 10

Maiden Rock, WI 54750

Phone: 715-647-2311

Fax: 715-647-5181

Email: winkler@wieserconcrete.com

Web: www.wieserconcrete.com

Date of Sewage Tank Registration: May 10, 2012

Sewage Tank Model Number	Sewage Tank Size (gallons)	Number of Compartments	Usage	Maximum Depth of Burial (feet)	Other Product Information
WLP 750	790	1	Pump	8	
WLP 1000P	1085	1	Pump	8	
WLP 1000 Septic	1085	1	Septic	8	
W1250 Septic	1340	1	Septic	8	
W1250 Pump	1340	1	Pump	8	
WLP1250 Septic	1323	1	Septic	7	
WLP1250 Pump	1323	1	Pump	7	
WLP1250 Holding	1323	1	Holding	7	
W1565 Pump	1565	1	Pump	8	
W1565 Septic	1565	1	Septic	8	
WLP 1645 Septic	1646	1	Septic	8	
WLP 1645 Pump	1646	1	Pump	8	
WLP 2000 Pump	2026	1	Pump	8	
WLP 2000 Septic	2026	1	Septic	8	
WLP 2000H	2138	1	Holding	8	
W2000 Pump	2017	1	Pump	8	
W2000 Septic	2017	1	Septic	8	
W2000 Holding	2103	1	Holding	8	
WLP 2250 Septic	2430	1	Septic	8	
W 2500 Holding	2621	1	Holding	7	

Sewage Tank Model Number	Sewage Tank Size (gallons)	Number of Compartments	Usage	Maximum Depth of Burial (feet)	Other Product Information
W 2500 Pump	2522	1	Pump	7	
W 2500 Septic	2522	1	Septic	7	
WLP 2500 Pump	2500	1	Pump	8	
WLP 2500 Septic	2500	1	Septic	8	
WLP 2500 Holding	2639	1	Holding	8	
W 3000-Septic	3006	1	Septic	7	
W 3000-Pump	3006	1	Pump	7	
W 3000-Holding	3124	1	Holding	7	
WLP 3000-Septic	3000	1	Septic	8	
WLP 3000-Pump	3000	1	Pump	8	
WLP 3000-Holding	3140	1	Holding	8	
W1000/500 Septic/Pump	1000/ 502	2	Septic/ Pump	8	
W1000/500 Septic/Septic	1000/ 502	2	Septic/ Septic	8	
W1000/500 Transfer	1000/ 502	2	Septic/ Septic	8	Transfer hole
W1000/600 Septic/Pump	1000/ 602	2	Septic/ Pump	8	
W1000/600 Septic/Septic	1000/ 602	2	Septic/ Septic	8	
W1000/600 Transfer	1000/ 602	2	Septic/ Septic	8	Transfer hole
WLP1000/600 Septic/Pump	1004/ 603	2	Septic/ Pump	8	
WLP1000/600 Septic/Septic	1004/ 603	2	Septic/ Septic	8	
WLP1000/600 Transfer	1004/ 603	2	Septic/ Septic	8	Transfer hole
WLP1000/650 Septic/Septic	1000/ 646	2	Septic/ Septic	8	
WLP1000/650 Septic/Pump	1000/ 646	2	Septic/ Pump	8	
WLP1000/650 Transfer	1000/ 646	2	Septic/ Septic	8	Transfer hole
W 1250/750 Septic/Pump	1328/ 774	2	Septic/ Pump	8	
W 1250/750 Septic/Septic	1328/ 774	2	Septic/ Septic	8	
W 1250/750 Transfer	1328/ 774	2	Septic/ Septic	8	Transfer hole
WLP 1200/800 Septic/Pump	1205/ 801	2	Septic/ Pump	8	
WLP 1200/800 Septic/Septic	1205/ 801	2	Septic/ Septic	8	



Detailed Parcel Report

Parcel Number: 10-1-064000

General Information

Township/City: HAUGEN TWP
Taxpayer Name: JARVIS, DONALD & LINDA
Taxpayer Address: 78 JARVIS DR
ESKO MN 55733
Property Address: 46895 156th PI
Township: 49
Range: 22
Section: 31
Green Acres: No
Plat: WENONAH BEACH
Brief Legal Description: LOT 10 BLK 3

Lake Number: 1002300
Lake Name: ROUND LAKE (SHAM/HAUG TWPS)
Acres: 0.00
School District: 4.00

RD
OHW - 1253.6
No 100 Year

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: \$140,100.00
Estimated Building Value: \$108,900.00
Estimated Total Value: \$249,000.00
Prior Year Total Taxable Value: \$185,229.00
Current Year Net Tax (Specials Not Included): \$1,056.00
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.

WENONAH BEACH

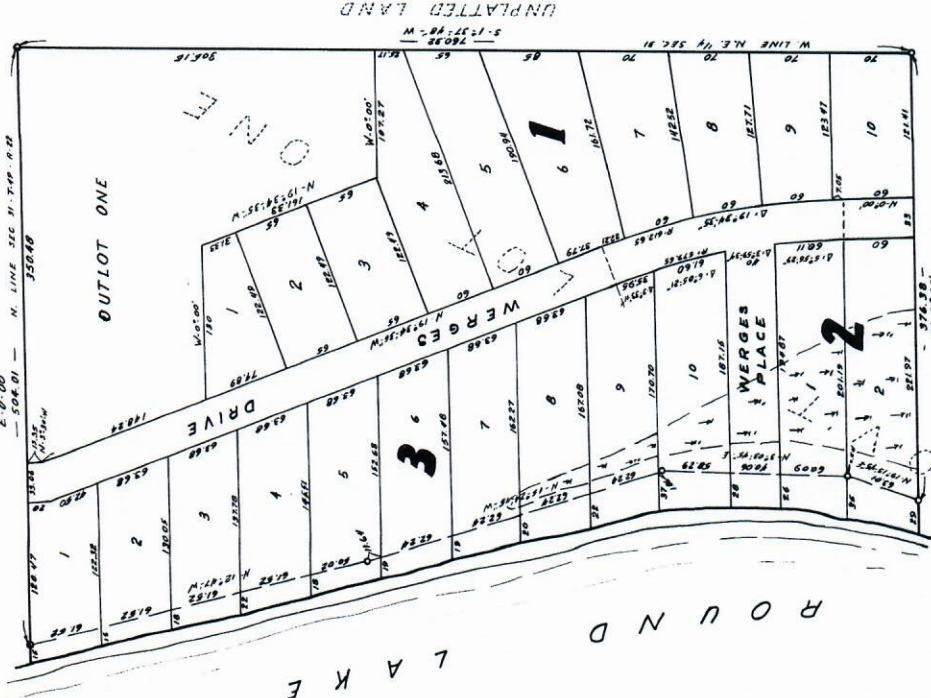
AITKIN COUNTY, MINNESOTA

JULY 1960

SCALE 1" = 60'



WILSONA BEACH
E 61.00' - 354.01' - N. LINE SEC 31, T4P, R.22
350.40'



UNPLATTED LAND

UNPLATTED LAND

NOTE
Bearings are assumed.
+ Denotes Iron Monument

KNOW ALL MEN BY THESE PRESENTS: That Edwin G. Halvorson and Myrtle E. Halvorson, his wife, owners and proprietors of the following described parcel of land situated in the City of Minneapolis, Hennepin County, Minnesota, Section Thirty One (31) Township Forty Nine (49) Range Twenty Two (22) more fully described as follows: Commencing at the Northeast corner of said government lot 1, said point being the Northwest corner of said distance of three feet easterly through the Westerly and parallel with the Northernly line of said government lot 1, a distance of 40.5 feet more or less to the shore of Round Lake; thence Northernly along shore to its intersection with the North line of said government lot 1; thence Easterly along said North line the same distance to the East corner of the plat of WENONAH BEACH and do hereby donate and dedicate to the public for public use forever, the roads as shown on the annexed plat.

In witness whereof said Edwin G. Halvorson and Myrtle E. Halvorson, his wife, and have caused these presents to be signed and have hereunto set their hands and seals this 11th day of July A.D. 1960.

In presence of
Earl J. DeBaha
Myrtle E. Halvorson
Edwin G. Halvorson

State of Minnesota } ss. On this 11th day of July A.D. 1960, before me, a Notary Public within
 County of Hennepin } and for said County and State, personally appeared Edwin G. Halvorson and Myrtle E.
 Halvorson his wife, to me known to be the persons described, each to be their own free act
 and deed.

Notary Public, Hennepin County, Minnesota
 My Commission Expires

I do hereby certify that I have surveyed and plotted the property described in this plat
 as WENONAH BEACH, that this plat is a correct representation of said survey; that
 all distances are correctly shown on the plat in feet and decimals of a foot; that
 the monuments for the guidance of future surveys have been correctly placed in
 the ground as shown on the plat; that the topography of the land is correctly
 designated on the plat; and that there are no wet lands or public highways to be designated on said
 plat other than as shown thereon. Land Surveyor, Minnesota Registration No. 3462

State of Minnesota } ss. The above certificate subscribed, on sworn to before me
 County of Hennepin } this 11th day of July A.D. 1960.
 Notary Public, Hennepin County, Minnesota
 My Commission Expires

The foregoing plat of WENONAH BEACH,
 was approved and accepted by the Board
 of Commissioners for Aitkin County, Minn-
 esota, at a regular meeting thereof
 this 11th day of July A.D. 1960.
 Chairman of the Board

I, Edwin G. Halvorson, Auditor for Aitkin
 County, Minnesota, do hereby certify
 that taxes on the above described land
 have been paid for the years prior to 1960.
 Auditor
 Aitkin County, Minnesota

I, Earl J. DeBaha, Treasurer for Aitkin
 County, Minnesota, do hereby certify that
 taxes on the above described land have been
 paid for the years prior to 1960.
 Treasurer
 Aitkin County, Minnesota

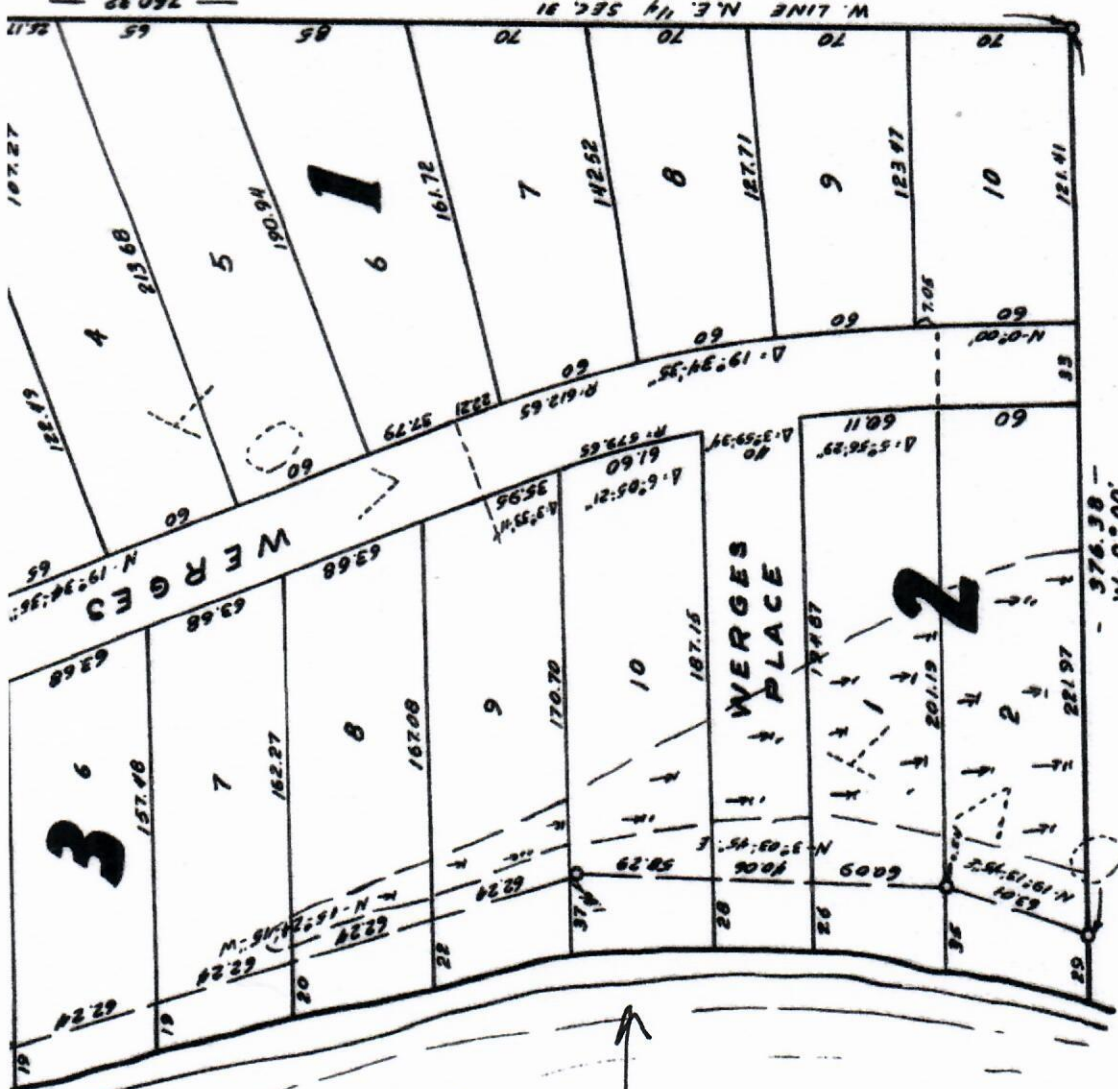
This plat of WENONAH BEACH was filed
 for record in my office this 12th day of August
 1960, at 10 o'clock P. M.
Myrtle E. Halvorson
 Register of Deeds
 Aitkin County, Minnesota 144198

Earl J. DeBaha
 TAXES PAID AND
 TRANSFER ENLINED
 This plat was filed August 12, 1960
 Myrtle E. Halvorson, Register of Deeds
 Aitkin County Auditor

UNPLATTED LA

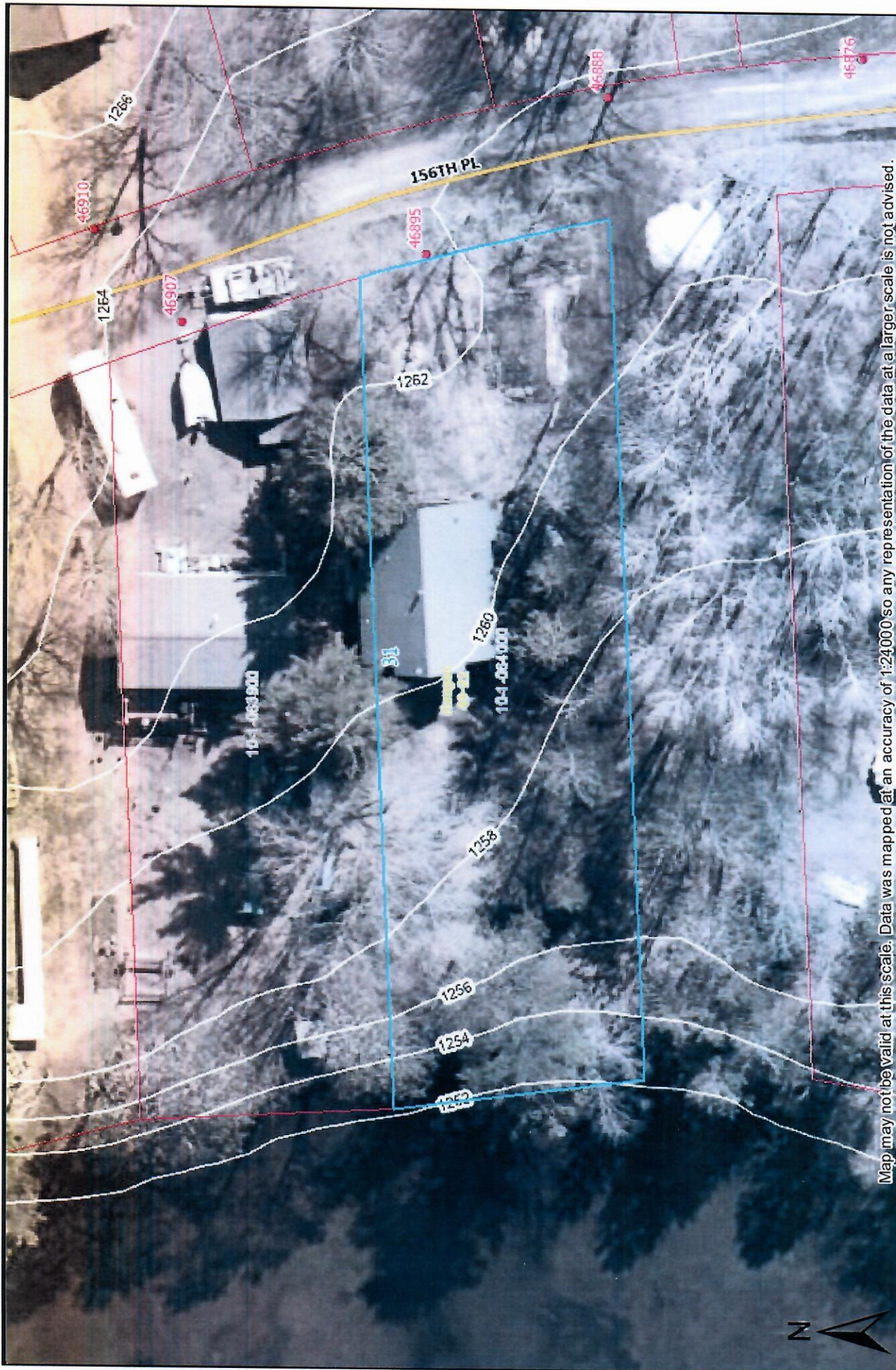
760.32
5-12-37-48-W

NOTE
Bearings are assumed.
+ Denotes Iron Monument



UNPLATTED LAND

Jarvis
ROUND
LA



Map may not be valid at this scale. Data was mapped at an accuracy of 1:24000 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.

Jarvis



Date: 12/28/2023

Web AppBuilder for ArcGIS

1:564 0 0.003 0.006 mi 1 inch = 47 feet