

Preliminary & Field Evaluation Form

24-143

www.SepticResource.com vers 12.4

Owner Information			
Date	<u>8/6/2024</u>	Sec / Twp / Rng	<u>S-34, T-46, R-27</u>
Parcel ID	<u>07-0-074502</u>	LUG (county, city, township)	<u>Aitkin Co.</u>
Property Owner:	<u>Randy Romano</u>	Owners address (if different)	
Property Address:	<u>42653 290th St. Aitkin Mn 56431</u>		<u>3052 121st Ave. NW</u>
City / State / Zip:			<u>Coon Rapids MN 55433</u>

Flow Information and Waste Type / Strength			
Estimated Design flow	<u>450</u>	Anticipated Waste strength	<input type="checkbox"/> Hi Strength <input checked="" type="checkbox"/> Domestic
Comments: Owner Proposes Shed with bathroom 1st Total bedrooms with future House will be 3 bedrooms. Gravity flow to septic tank. Shed and House Elevation not set at time of design Proposed deep well will be South of Shed +75 ft. Alternate Septic site is East of Driveway East of Buildings		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	Proposed 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 type="checkbox"/> Yes	<input checked="" 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 checked="" 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 type="checkbox"/> Yes	<input checked="" 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	<hr/> <hr/>				

Soil Information

Evidence of site:

- | | | |
|-----------|------------------------------|--|
| Cut | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Filled | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Compacted | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Disturbed | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

Original soils Yes No

Soil logs completed and attached Yes No

Perk test completed and attached (if applicable) Yes No

Soil loading rate (gpd/ft²) 0.60

Percolation rate (if applicable) _____

Depth/elev to SHWT 22"

Flooding or run-on potential Yes No

Depth to system bottom maximum (or elev minimum) (+ 18")

(comments)

Depth/elev to standing water (if applicable) _____

Flood elevation (if applicable) NA

Depth/elev to bedrock (if applicable) _____


Elevation of ordinary high water level (if applicable) _____

Soil Survey information determined (see attachment) Yes No

Floodplain designation and elev - 100 yr/10 yr (if applicable) _____

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 #

42653 290th St. Aitkin Mn 56431

Soil Log #2

Boring

Pit

Elevation 98.2'

Depth to SHWT 26"

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 6	Topsoil Sandy Loam	<35	10YR3/2		Loose	Loose	Granular
6 - 26	Loamy Sand	<35	10YR4/4		Loose	Loose	Granular
26 - 30	Sandy Loam	<35	10YR5/4	7.5YR5/6	Loose	Loose	Granular

42653 290th St. Aitkin Mn 56431

Soil Log #3

Boring

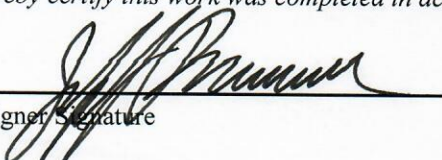
Pit

Elevation _____

Depth to SHWT _____

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

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


 Designer/Signature

Brummer Septic LLC.
 Company

L-1347
 License #

Mound Design - Aitkin county

Property Owner: Randy Romano

Date: 8/6/2024

Site Address: 42653 290th St. Aitkin Mn 56431

PID: 07-0-074502

Comments: _____

instructions: = enter data = adjust if desired = computer calculated - DO NOT CHANGE!

- 1) 3 bedroom Type I Residential System
- 2) 450 GPD design flow
- 3) No Garbage disposal or pumped to septic Install 1650 Jacobson 2/Compartment Septic/Pump Tank
- 4) 1000 Gal Septic tank (code minimum) 1000 Gal Septic tank (design size / LUG req'd)
Tank options: none
- 5) 1.2 GPD/ft² mound sand loading rate contour loading rate of 12 req's a min 37.5 ft. long rockbed
- 6) 10.0 ft rockbed width 38.0 ft rockbed length Use 38 Ft long Rockbed
- 7) 3.0 ft lateral spacing 3.0 ft perforation spacing (maximum of 3 for both)
end feed manifold connection
- 8) 3 laterals 36.0 feet long 13.0 perfs / lateral 39 perfs total
(1/2 a perf means the first perf starts at the middle feed manifold)
- 9) 1/4" inch perfs at 1 feet residual head gives 0.74 gpm flow rate per perforation
for this perf size & spacing, & pipe size on line 12, max perfs/lateral = 16, line #8 must be less --> OK
- 10) 7.0 doses per day (4 minimum)
- 11) 64 gallons per dose (treatment volume)
- 12) 1.50 inch diameter laterals must be used to meet "4x pipe volume" requirement 1.50 5x
- 13) 140 feet of 2.0 inch supply line leads to 24 gallons of drainback volume 2.00 3x
(Tip: "top feed" manifold to control the drainback)
- 14) 88 gallons TOTAL pump out volume (treatment + drainback)
- 15) 12 feet vertical lift from pump to mound laterals, leads to a:
- 16) 29 GPM @ 21 feet of head, Pump requirement (note: >50gpm may require an extra 3-6' of head)
- 17) 500 gal Dose tank (code minimum) 533 gal Dose tank (design size / LUG req'd) at 12.69 gpi
leads to a
- 18) 6.9 inch swing on Demand float, or timed dosing of 3 min ON (confirm pump rate with drawdown
(this delivers Average flow, =70% of Peak design flow) 5.1 hrs OFF test and adjust as necessary)
- 19) 12 inches from bottom of tank to "Pump OFF" float
- 20) 19 inches from bottom of tank to "Pump ON" float, or 12 inches to "Timer ON" float if time dosed
- 21) 22 inches from bottom of tank to "Hi Level" float, or 32 inches to "Hi Level" float if time dosed
- 22) 254 gallons reserve capacity (after High Level Alarm is activated)

23) 0.60 gpd/ft² Absorption area Soil Loading Rate, which gives a mound ratio of 2 (minimum)
 (this must match the soil boring log) desired mound ratio 2.0

24) 1 percent site slope (0-20% range) 1 (% downslope site slope, if different than upslope)

25) 18 inches, or 1.5 ft. to Redox or other limiting condition (need at least 12" to be a Type I)
 Treatment zone contains 0 inches of 0% soil credit, and 0 inches of 50% soil credit. Giving a:

26) 18 inch, or 1.5 ft. Sand Lift Mound **CRITICAL FOR FUTURE CERTIFICATIONS!!!**

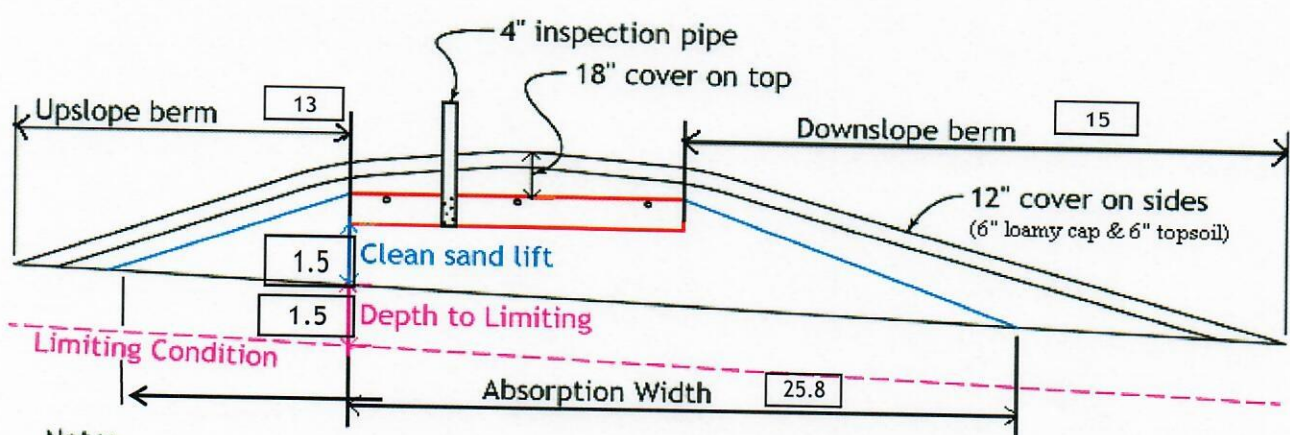
27) 20.0 ft. base absorption width (with sand beyond rockbed as follows):
 25.8 greater of: absorption width OR sand slope Use 5 ft upslope keeps sand 15 ft from property line

28) 5.0 ft. upslope and sideslope sand upslope 5.0
 5.0 ft. Downslope sand down slope 10.8

Individual slope ratios give BERM widths (topsoil beyond rockbed) of:

29) 4:1 upslope ratio 13 ft. upslope berm
 30) 4:1 sideslope 14 ft. sideslope berms
 31) 4:1 downslope 15 ft. downslope berm

32) Overall Dimensions: 10.0 ft. wide by 38.0 ft. long Rock bed
 38 ft. wide by 66 ft. long Mound footprint



Note:
 For 0 to 1% slopes, Absorption Width is measured from the Bed equally in both directions.
 For slopes >1%, Absorption Width is measured downhill from the upslope edge of the Bed.

33) Rock Bed: 10.0 ft. by 38.0 ft. by 9 inches under pipe, plus 20% gives 17 yd³ or *1.4= 24 ton

34) Mound Sand: (note: volume is based on 3:1/4:1 slope from top of rockbed, Exchange sand for loamy cap if desired)
 25.8 up + 30.3 downslope + 10.0 ends + 21.8 under rock = 106 yd³ or *1.4= 148 ton plus 20%

35) Loamy Cap: 34 ft. by 62 ft. 6" deep, plus 20% gives 47 yd³ or *1.4= 66 ton

36) Topsoil: 38 ft. by 66 ft. 6" deep, plus 20% gives 56 yd³ or *1.4= 78 ton

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

Designer Signature: *[Signature]* Brummer Septic LLC. L-1347 8/6/2024
 Company License# Date

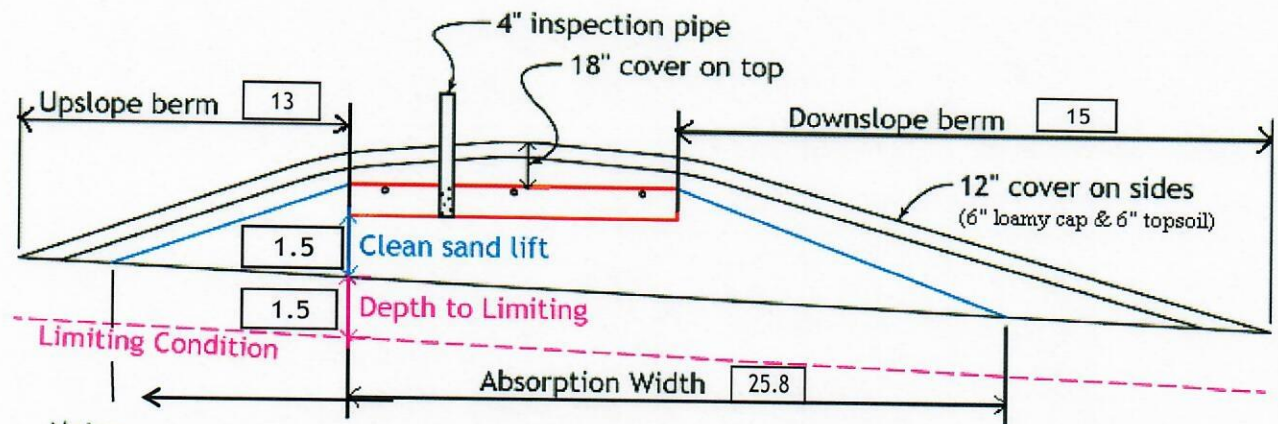
Installer Summary

1000 gallon Septic tank (minimum) Tank options: none
 Install 1650 Jacobson 2/Compartment Septic/Pump Tank at 12.69 gpi
 533 gallon Dose tank (minimum)
 29 GPM @ 21 ft. of head, Pump required
 6.9 inch swing on Demand float which translates to roughly 4.5 inches of float tether length
 if time dosing is required --> 3 minutes ON time & 5.1 hours OFF time
 19 inches from bottom of tank to "pump ON" float, or 12 inches to "timer ON" float
 22 inches from bottom of tank to "Hi Level Alarm" or 32 inches to "Hi level alarm" if time dosed
 140 ft. of 2.0 inch supply line with end feed manifold connection
 (Tip: "top feed" manifold to control drainback)
 18 inch, or 1.5 ft. Sand Lift Mound
 10.0 ft. wide by 38.0 ft. long Rock bed
 3 laterals 1.50 inch diameter 36.0 ft. long 3.0 ft. lateral spacing
 1/4" inch perfs 3.0 ft. perforation spacing
 No Effluent filter & alarm
 3 clean out & valve box assemblies

25.8 ft. Total sand ABSORPTION width (minimum)
 5.0 ft. upslope and sideslope (sand beyond rockbed, minimum)
 10.8 ft. Downslope (sand beyond rockbed, minimum)

Specific slope ratios give BERM widths (topsoil beyond rockbed) of:

4:1 upslope ratio	13 ft. upslope berm
4:1 sideslope	14 ft. sideslope berms
4:1 downslope	15 ft. downslope berm



Note:

For 0 to 1% slopes, *Absorption Width* is measured from the *Bed* equally in both directions. For slopes >1%, *Absorption Width* is measured downhill from the upslope edge of the *Bed*.

Rock Bed:	17.0 yd ³ or *1.4=	24 ton	9 inches under pipe
Mound Sand:	106 yd ³ or *1.4=	148 ton	
Loamy Cap:	47 yd ³ or *1.4=	66 ton	6" deep
Topsoil:	56 yd ³ or *1.4=	78 ton	6" deep

INSPECTOR CHECKLIST - mound

42653 290th St. Atkin Mn 56431

- WELL setbacks: 20' to pressure tested sewer line (5 psi for 15 min)
50' to everything 100' to dispersal area with shallow well
- PROPERTY LINES setback: 10' to everything
- Road setback: platted: 10' prop line. Metes & bounds: out of road easement, or outer ditch.
- LAKE / BLUFF setback: 20' for bluff. Lakes: GD ____, RD ____, NE _____. Protected wetland ____.
- Building setbacks: 10' for everything, 20' for dispersal area.
- WATER LINE under pressure se 10' to bed, tank & sewer line. (else sewer line > 12" below, else ok w/pvc)

- Sewer line & baffle connection (no 90's, 3' between 45's, slope min 1" in 8', max 2" in 8')
(no depth req's, clean out every 100', Sch 40 pipe)

- Septic tank and risers (water tight, insulated, proper depth, existing verified by pumping)
mfg _____ 1000 gallons none _____

- Riser over outlet, riser over inlet or center, and 6"+ inspection pipe over any remaining baffles.
- No _____ effluent filter & alarm
- Dose tank risers and piping (water tight, insulated, proper depth, drainback)
mfg _____ 533 gallons

- dose pump _____ 29 gpm 21 head VERIFY PUMP CURVE 3 min ON 5.1 hr OFF

- float setting drop 6.9 inches at 12.7 gpi "DESIGNED" 4.5 inches approx float tether length
88.0 gal dose divided by _____ gpi "INSTALLED" = _____ inches float drop (field corrected)
- LABEL pump requirements and drawdown on riser or panel

- Cam lock reachable from grade - 30" max. J-hook weep hole. Supply line access (no hard 90's)
2.0 inch supply pipe: Sch40, sloped 1/8"+, supported by 4" sch40 sleeve or compacted, and buried 6"+.
- splice box / control panel / electrical connections
- flow measurement: CT, ETM, time dosed, home water meter
- mound absorption area rough up
- mound rock dimensions 10.0 X 38.0
- Sand lift depth 18 inches. (Jar test : 2" sand leaves < 1/8" silt after 30 min)

- Absorption Sand beyond rock 5.0 upslope 10.8 downslope

- Bermed topsoil beyond rockbed 13 upslope 14 sideslope 15 downslope

- cover depth of 12-18"+ VERIFY
- 3 laterals (1-2' from edge of rock)
- 1.50 inch pipe size (Sch40 pipe & fittings)
- 3.0 ft lateral spacing

- 1/4" inch perforations
- 3.0 ft perforation spacing

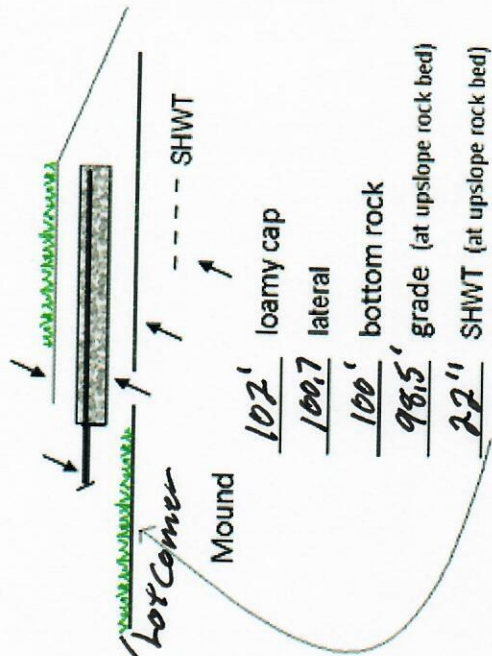
- Air inlet at end of laterals, and at top feed manifold if necessary. VERIFY
- clean outs (no hard 90's)
- 4" inspection pipe to bottom of rock, anchored VERIFY

- Abandon existing system - if necessary Re-use existing tank certification
- monitoring plan and type _____
- well abandonment form - if necessary _____

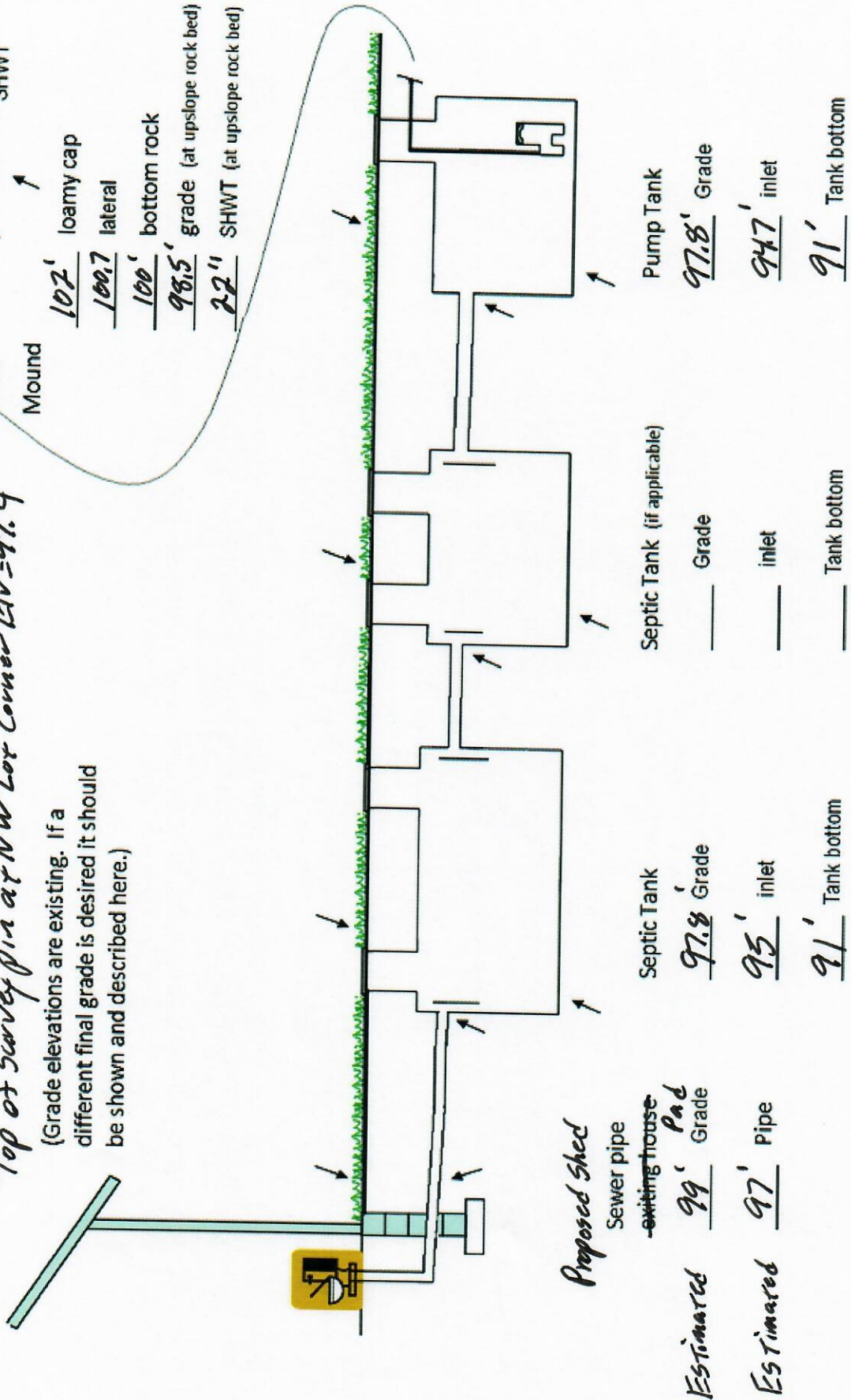
System Elevations

EIV = 100' benchmark Nail on power Pole Near NW Lox Corner
 Top of Survey pin at NW Lox Corner EIV = 97.4

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

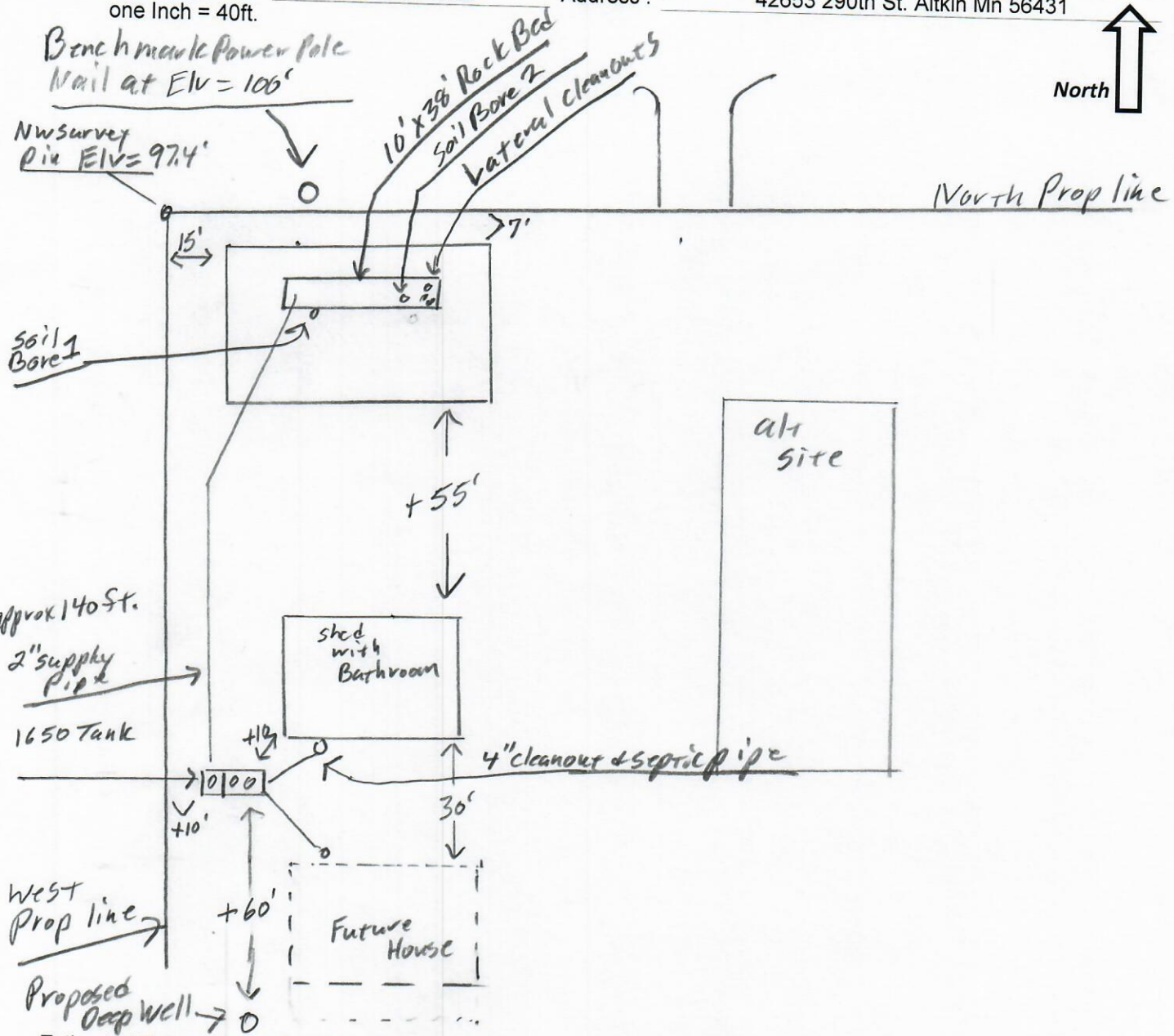


Mound
 102'
 100.7
 100'
 98.5'
 22" SHWT (at upslope rock bed)



{ Design Drawing }

Property Owner: Randy Romano Date: 8/6/24 Designer's Initials: JB
 Parcel ID. Number: 07-0-074502 Address: 42653 290th St. Aitkin Mn 56431
 one inch = 40ft.



Estimated Future House Pad Elv. = 99'
 Estimated Pad for Shed Elv. = 99' Top of Survey Pin at NW Lot Corner Elv. = 97.4'

	Surface/ SHWT	Nail on Power Pole = Bench Mark 100'		Existing Grade	
Soil Bore 1	98.3' / 22"	Bench Mark	100'	Upslope Edge of Rockbed Elv. = 98.5'	
Soil Bore 2	98.2' / 26"	Ground Elv. BM	97.8'	Bottom of Rockbed Elv. = 100'	
Soil Bore 3		Ground Elv. Tank	97.8'	Top of Washed Sand Elv. = 100'	
	Ground at Proposed Shed	98.1'	NW corner	Estimated Septic tank In-let Elv. = 95'	

Please show all that apply (Existing)

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

Type text here

Mound Design Notes - Aitkin county

Property Owner: Randy Romano

Date: 8/6/24

Site Address: 42653 290th St. Aitkin Mn 56431

PID: 07-0-074502

Comments: **Mound design may not follow Aitkin co. Auto fill form for mound design.**

- 1 This is a type I mound for a 3 bedroom House. Proposed deep well location will be South of Future House.
- 2 Owner Proposes building a shed with a bathroom 1st. Total bedrooms with Future house will be 3 bedrooms
- 3 West property line has pipes on NW & SW corners, Nw corner pipe Elv. = 97.4'
Owner has Alternate septic site on east side of approach.
- 4 Bench Mark Elevation = 100', is a nail on a Power Pole near NW corner of Lot.
- 5 Install Jacobson 1650 Compartment tank for gravity flow from Slab on grade Shed (Elv. not set)
Install deep enough for drainback from mound Plus 100 feet away.
- 6 Elevation contour of rock bed upslope edge is 98.5'.
The area size of the rock bed is 10' x 38' . Absorption area is 38' x 30.5'.
Sand area is 5 ft. up slope + 10 ft. rockbed + 10.8 downslope = approx. 25.8 ft. wide sand base.
Berms are 13ft. Upslope, 15ft. Down slope, 10ft. Rock bed = approx. 38ft. Wide.
Overall mound size is approx. 38' wide x 66' long and approx. 3.5' high. End Berms are 14 ft wide.
- 7 The bench mark is the nail on the Power Pole near mound 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.
- 8 The top of the washed sand and bottom of rock bed is Elv. 100'.
It is important that the soils do not get compacted, and that clean washed sand is used.
- 9 The Jacobson 1650 compartment tank will be gravity flow from dwelling. Install the pump for 7 demand doses per day. approx. 88 gallons per dose, 6.9 inches of tank level. Install alarm at 3 inches from pump on level.
Install all manholes, inspection pipes and clean-outs to grade or above, insulate top of tank.
Recommend raising manholes 4" above finished grade.
- 10 Install a 2" supply pipe from tank to end manifold in rock bed, install so pipe drains back to tank.
Install 1.5" laterals with 9" of rock under them. (Install Lateral clean-outs at far end of laterals. Recommended)
- 11 **Drill 1/4" holes for Perf sizing, 36" on centers.**
Install 4" inspection pipe to bottom of rock bed, secure in rock bed and raise to above final grade.
MPCA recommends 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.

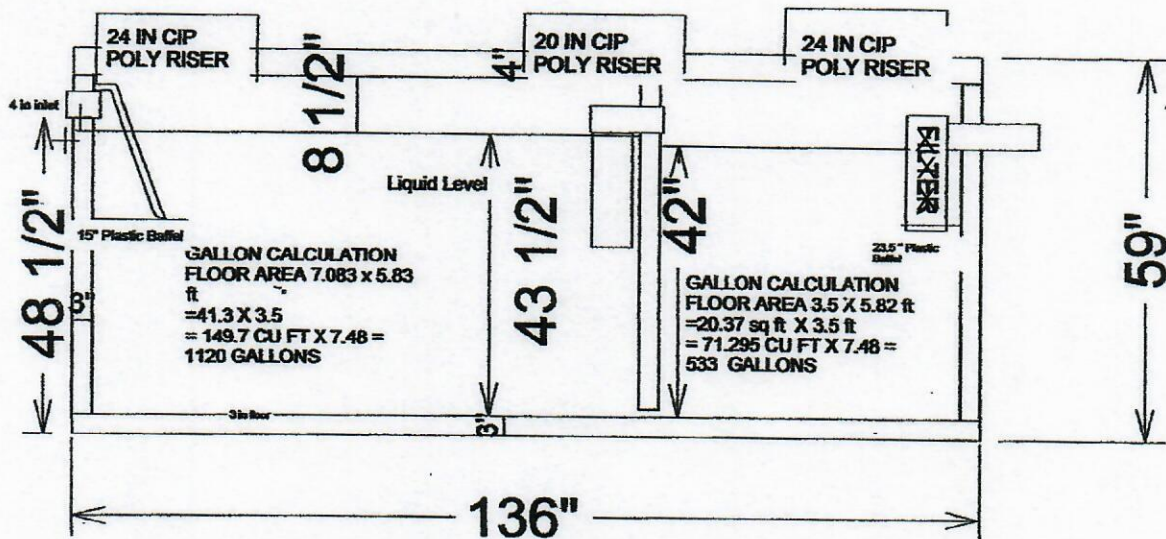
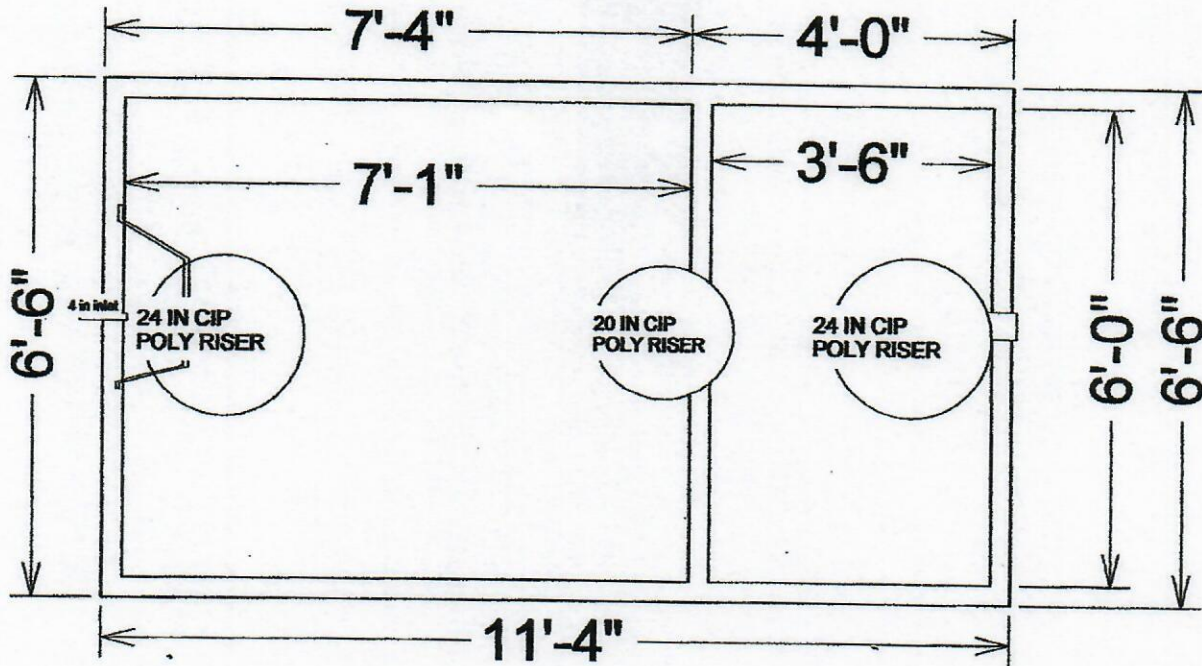

Designer Signature

Brummer Septic LLC.
Design Company

L-1347
License#

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

CERTIFICATE OF SURVEY

PART OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER,
SECTION 34, TOWNSHIP 46, RANGE 27,
AITKIN COUNTY, MINNESOTA

SURVEYOR'S NOTES:

ACCORDING TO THE AITKIN COUNTY ONLINE GIS MAPPING APPLICATION, THE SUBJECT PROPERTY IS CURRENTLY LOCATED WITHIN THE SHORELAND AND FARM RESIDENTIAL ZONING DISTRICTS.

THE PID NO. FOR THE SUBJECT PROPERTY IS 07-0-074502.

OWNER OF THE SUBJECT PROPERTY IS JERI ROMANO.

THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR OPINION. THERE MAY BE EASEMENTS OR OTHER LIMITING FACTORS WHICH AFFECT THE SUBJECT PROPERTY THAT ARE NOT SHOWN ON THIS SURVEY.

PARCEL B IS NOT INTENDED TO BE A STAND ALONE PARCEL. IT WILL BE CONSOLIDATED WITH PARCEL 07-0-074501. THERE WERE NO IMPROVEMENTS OBSERVED ON THE SUBJECT PROPERTY AT THE TIME OF THIS SURVEY.



ORIENTATION OF THIS SURVEY SYSTEM IS BASED ON AN ASSUMED DATUM

- INDICATES IRON OR ALUMINUM NAILS
- INDICATES SPOKE LOCATED BY IRON OR ALUMINUM PIPE
- INDICATES SET AND MARKERS IS # 4751

EXISTING LEGAL DESCRIPTION (According to Document No. A401584):

The North Twenty-two (22) rods of the Northeast Quarter of the Northwest Quarter (NE1/4 of NW1/4) of Section Thirty-four (34), Township Forty-six (46), Range 27, Township 46, Range 27, less highway easement and right-of-way AND EXCEPT all that part of the NE1/4 of NW1/4, Section 34, Township 46, Range 27 contained in a strip of land 75 feet wide lying parallel to and immediately adjacent to the following centerline: Beginning at the northeast corner of the NE1/4 of NW1/4, thence South 89 degrees 29 minutes West a distance of 1,315.0 feet, and then terminate. Said point of termination being Trunk Highway 169.

PROPOSED PARCEL A LEGAL DESCRIPTION:

The North 100.00 feet of the North 22 rods of the Northeast Quarter of the Northwest Quarter (NE1/4-NW1/4), Section 34, Township 46, Range 27, Aitkin County, Minnesota EXCEPT

All that part of the NE1/4 of NW1/4, Section 34, Township 46, Range 27 contained in a strip of land 75 feet wide lying parallel to, and immediately adjacent to the following centerline: Beginning at the northeast corner of the NE1/4 of NW1/4, thence South 89 degrees 29 minutes West a distance of 1,315.0 feet, and then terminate. Said point of termination being Trunk Highway 169.

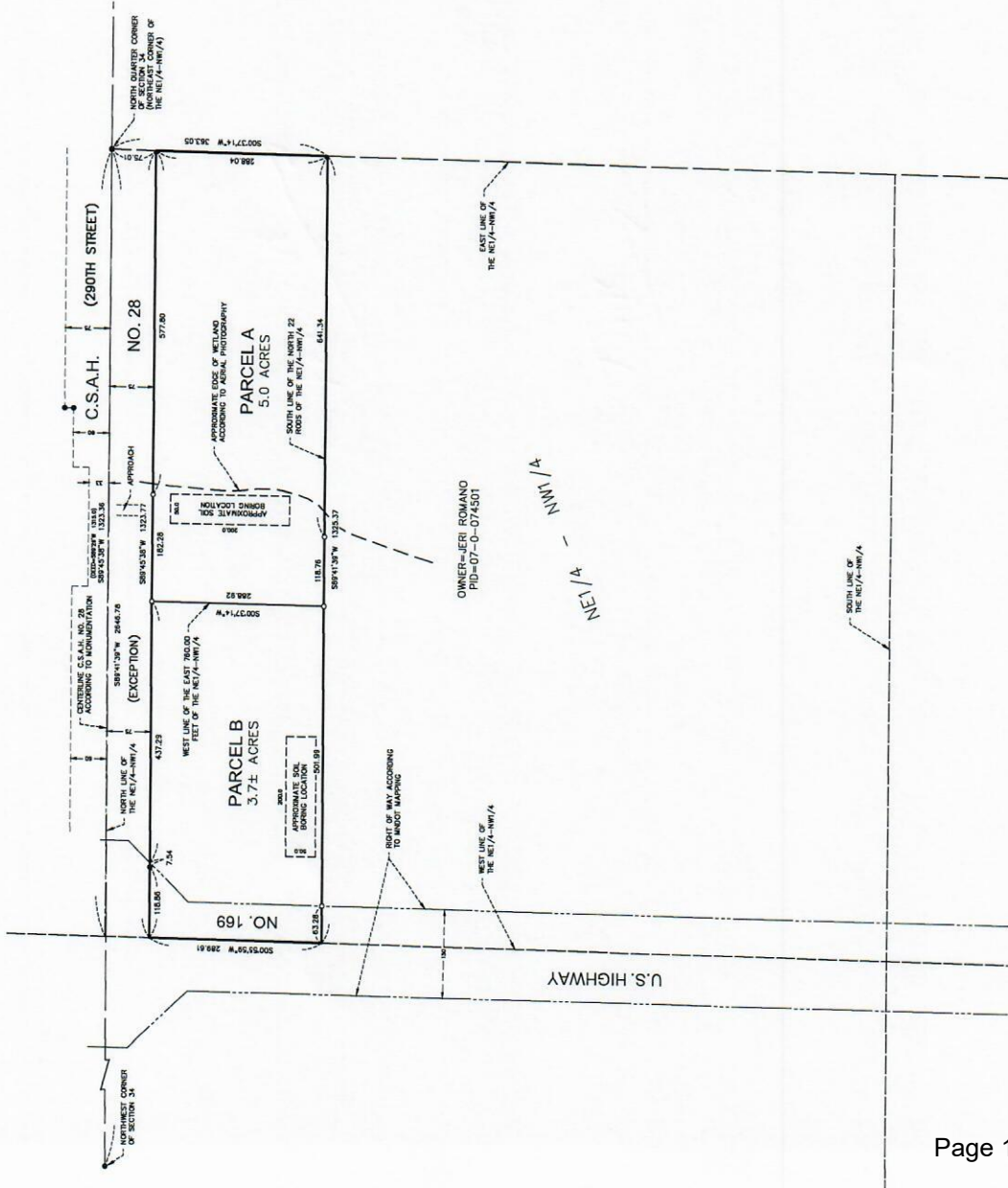
Subject to easements, reservations or restrictions of record, if any.

PROPOSED PARCEL B LEGAL DESCRIPTION:

The North 22 rods of the Northeast Quarter of the Northwest Quarter (NE1/4-NW1/4), Section 34, Township 46, Range 27, Aitkin County, Minnesota EXCEPT the 100.00 feet thereof.

All that part of the NE1/4 of NW1/4, Section 34, Township 46, Range 27, contained in a strip of land 75 feet wide lying parallel to and immediately adjacent to the following centerline: Beginning at the northeast corner of the NE1/4 of NW1/4, thence South 89 degrees 29 minutes West a distance of 1,315.0 feet, and then terminate. Said point of termination being Trunk Highway 169.

Subject to the right of way of U.S. Highway No. 169 and also subject to other easements, reservations or restrictions of record, if any.



PREPARED FOR: JERRY ROMANO
 PREPARED BY: RANDY ROMANO
 A MINNESOTA LICENSED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA
 Randy D. Romano
 FILE NO. 282 DATE 7-12-2004 LIC. NO. 03951





Detailed Parcel Report

Parcel Number: 07-0-074502

General Information

Township/City: FARM ISLAND TWP
 Taxpayer Name: ROMANO, JERI R
 Taxpayer Address: 28890 US HWY 169
 AITKIN MN 56431
 Property Address: 42653 290TH ST
 Township: 46 Lake Number: 0
 Range: 27 Lake Name:
 Section: 34 Estimated Acres: 8.52
 Green Acres: No School District: 1.00
 Plat:
 Brief Legal Description: N 22 RODS OF NE NW LESS 2.12 ACS R/W

Tax Information

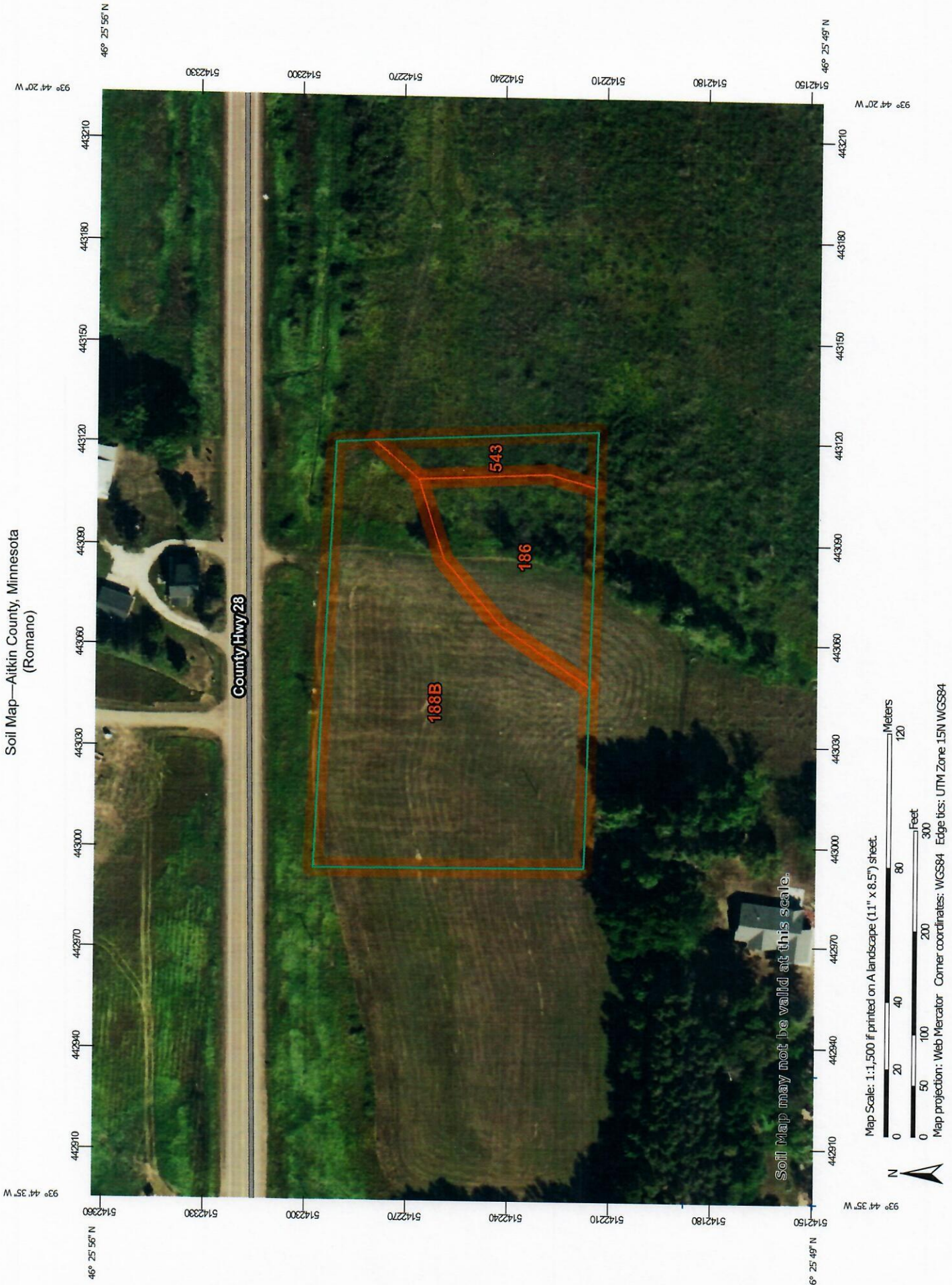
Class Code 1: Rural Vacant Land
 Class Code 2: Unclassified
 Class Code 3: Unclassified
 Homestead: Non Homestead
 Assessment Year: 2024

Estimated Land Value:	\$27,300.00
Estimated Building Value:	\$0.00
Estimated Total Value:	\$27,300.00
Prior Year Total Taxable Value:	\$25,700.00
Current Year Net Tax (Specials Not Included):	\$112.00
Total Special Assessments:	\$0.00
**Current Year Balance Not Including Penalty:	\$4.48
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.

Soil Map—Aitkin County, Minnesota
(Romano)



Soil Map may not be valid at this scale.

Map Scale: 1:1,500 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

Aitkin County, Minnesota

188B—Omega loamy fine sand, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: gjfm
Elevation: 980 to 1,640 feet
Mean annual precipitation: 25 to 30 inches
Mean annual air temperature: 39 to 45 degrees F
Frost-free period: 120 to 140 days
Farmland classification: Not prime farmland

Map Unit Composition

Omega and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Omega

Setting

Landform: Outwash plains
Landform position (two-dimensional): Backslope, summit
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy outwash

Typical profile

E - 0 to 2 inches: loamy fine sand
Bs,C1,C2 - 2 to 60 inches: fine sand

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 3.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4s
Hydrologic Soil Group: A
Ecological site: F090AY019WI - Dry Sandy Uplands
Forage suitability group: Sandy (G090AN022MN)
Other vegetative classification: Sandy (G090AN022MN)
Hydric soil rating: No

Minor Components

Over ten percent gravel

Percent of map unit: 5 percent

Hydric soil rating: No

Nemadji

Percent of map unit: 5 percent

Hydric soil rating: No

Bushville

Percent of map unit: 2 percent

Hydric soil rating: No

Newson

Percent of map unit: 2 percent

Landform: Swales

Hydric soil rating: Yes

Leafriver

Percent of map unit: 1 percent

Landform: Depressions

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Aitkin County, Minnesota

Survey Area Data: Version 24, Sep 9, 2023

Aitkin County, Minnesota

186—Nemadji loamy fine sand

Map Unit Setting

National map unit symbol: gjfh
Elevation: 980 to 1,640 feet
Mean annual precipitation: 25 to 30 inches
Mean annual air temperature: 39 to 45 degrees F
Frost-free period: 120 to 140 days
Farmland classification: Not prime farmland

Map Unit Composition

Nemadji and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Nemadji

Setting

Landform: Flats on outwash plains
Down-slope shape: Linear
Across-slope shape: Concave
Parent material: Sandy outwash

Typical profile

Ap - 0 to 6 inches: loamy fine sand
E,Bw,Bhs - 6 to 34 inches: fine sand
C1,C2 - 34 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 20.00 in/hr)
Depth to water table: About 18 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 4.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: A/D
Ecological site: F090AY009WI - Moist Sandy Lowland
Forage suitability group: Sloping Upland, Low AWC, Acid (G090AN008MN)
Other vegetative classification: Sloping Upland, Low AWC, Acid (G090AN008MN)
Hydric soil rating: No

Minor Components

Leafriver

Percent of map unit: 5 percent

Landform: Depressions

Hydric soil rating: Yes

Newson

Percent of map unit: 5 percent

Landform: Swales

Hydric soil rating: Yes

Omega

Percent of map unit: 5 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Aitkin County, Minnesota

Survey Area Data: Version 24, Sep 9, 2023