

Aitkin County Holding Tank Design Back Lot

Property Owner: Roy Rueb Date: 4/30/2020 Cell: 612-209-5680

Mailing Address: 4250 Paris Ave. N. Home Phone #: _____

City: Stillwater State: MN Zip: 55082

Site Address: 30307 408th Pl. Parcel Number: 07-0-047708

City: Aitkin State: MN Zip: 56431

Driving Directions if no address issued : _____

Legal Description : .28 Ac of Lot 4 in Doc 173368

Sec: 24 Twp.: 46 Range: 27 Twp. Name : Farm Island TWP.

Lake / River : Spirit Lake Lake / River Classification : RD

FLOW DATA
 Number of Bedrooms : _____
 Dwelling Classification : I
 System Type : II Holding Tank
 Gallons per Day (GPD) : _____

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 : None
 Shallow Well : Existing Shallow

Wells to be sealed (if Applicable) ? _____

SETBACKS

Tank(s) to Well : +60' Drainfield to Well : NA Sewer Line to Well : _____
 Tank(s) to House : 11' Drainfield to House : NA Air Test NO
 Tank(s) to Property Line : +12' Drainfield to Property Line : NA

Additional System Notes and Information:

Existing 1500 gal. Holding tank is Compliant. Owner wants to add capacity. Existing tank was installed 6/6/2000

Convert existing tank to a pump tank, Install 2 new holding tanks.

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: 4/30/2020

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Aitkin County { Design Notes }

Property Owner: Roy Rueb Date: 4/30/2020 Designer's Initials : JB
PIN : 07-0-047708 Page : of

Existing Holding tank is Compliant. Installer will Convert the existing tank to a 1500 gal. pump tank.
Owner Proposes adding two (1600 -to 2000) Holding tank to an existing holding tank system..
Owner named the Manufacturer (Brown Wilbert), for the two (1600 or 2000 gal) holding tanks.
Convert existing tank to pump tank, install pump on a 4" block, set pump off float at tanks 50% capacity
This is so the tank always has weight in it, set dose at approx. 4" or approx. 125 to 150 gallons per dose.
Install electric alarm in pump tank. Should raise manhole and add extra fill on top of existing tank for ballast.
Install both new holding tanks with inlet at approx. grade level,(High) and pump up into the 1st one
Install 2nd tank for gravity flow from 1st holding tank.
Installer can raise one manhole of each to above grade. (recommend 4" to 6"above grade for winter access.
Installer will insulate tank tops and add extra soil on top of tank for ballast.
Pump sizing curve 15 GPM at 15 ft. head
Install alarm in 2nd holding tank at approx. 50% of tank capacity, this will be approx. 25% reserve capacity.
Bench Mark Elv. is the top of the existing tanks manhole cover, Elv. = 100 ft.
Owner will need a Holding Tank Pumping Service Agreement.

Setbacks are

- 50 ft. from well
- 10 ft. from lot line
- 75 ft. from Spirit lake
- 10 ft. from structure.


(Recommendations for holding tanks)
Electric Alarm in or near house
Insulate tank top
Water proof outside if installed in water if available
Raise manholes 4" or more above finished grade for winter access

Owner should install protect around tank to keep traffic off tank. (Boulders, fence posts)

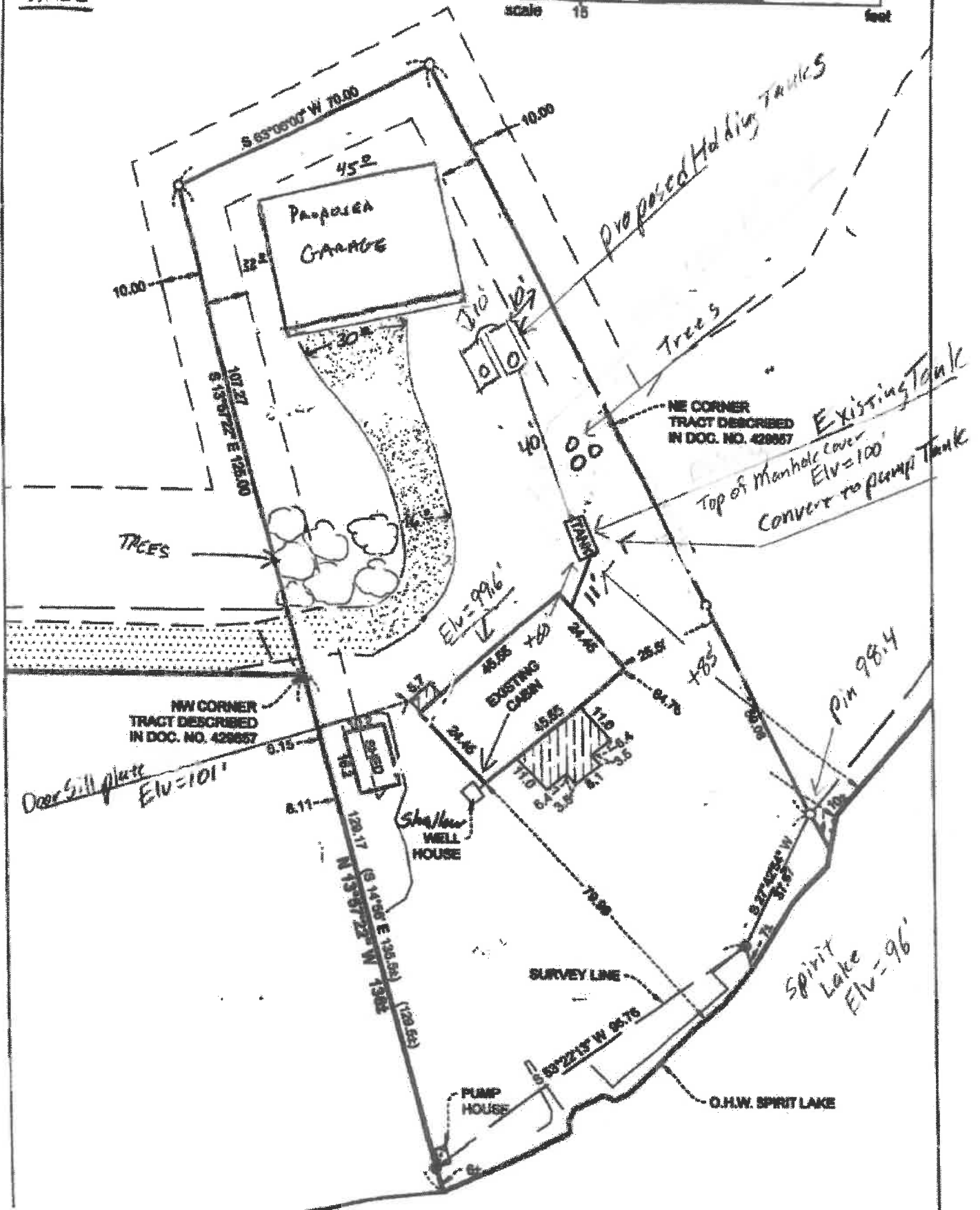
Existing Tank 1500 gallon Jacobson approx. 36 GPI

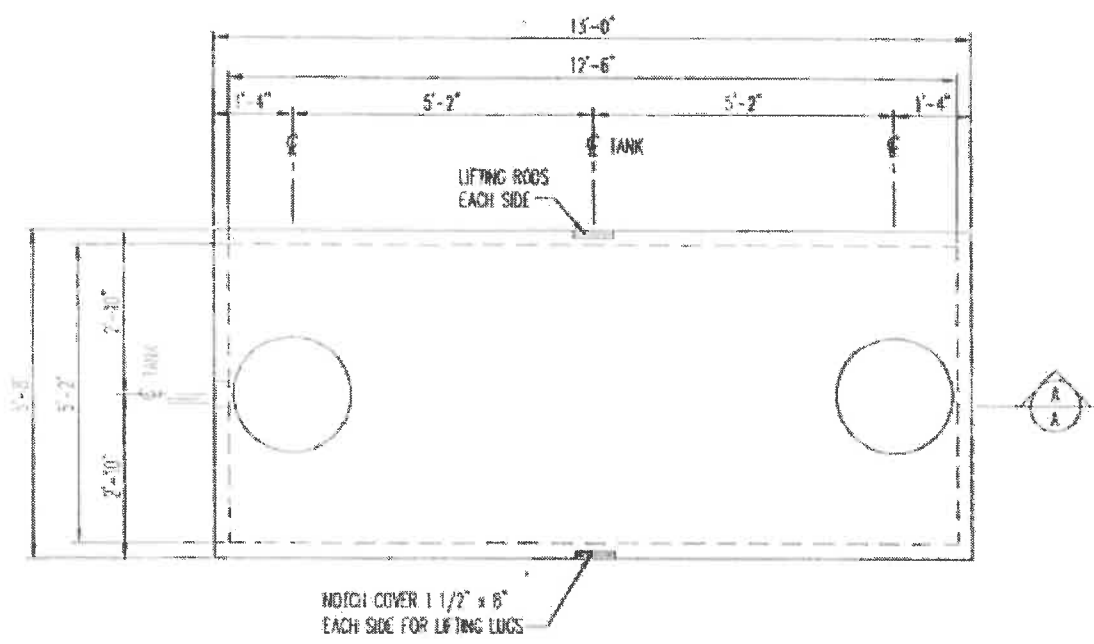
Existing Elevations 8/21/2019

- Top of Existing Holding tank manhole cover Elv.= 100'
- Existing Tank Inlet Elv. = 98.3' Approx. tank bottom Elv.= 94'
- Grade at Proposed tank site Elv. = 100.9'
- Approx. 1st new tank inlet Elv. = 101'
- On 4/30/2019 Spirit Lake Elv. = 96'
- Grade at NE corner of house Elv.= 99.2'
- Front Door at NW corner of house sill plate at Elv.= 101'

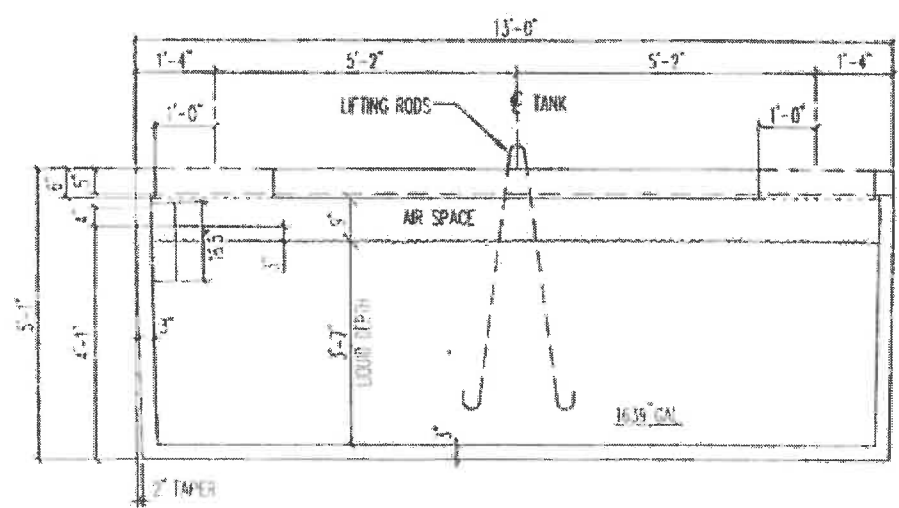
 4-30-2020

RueB





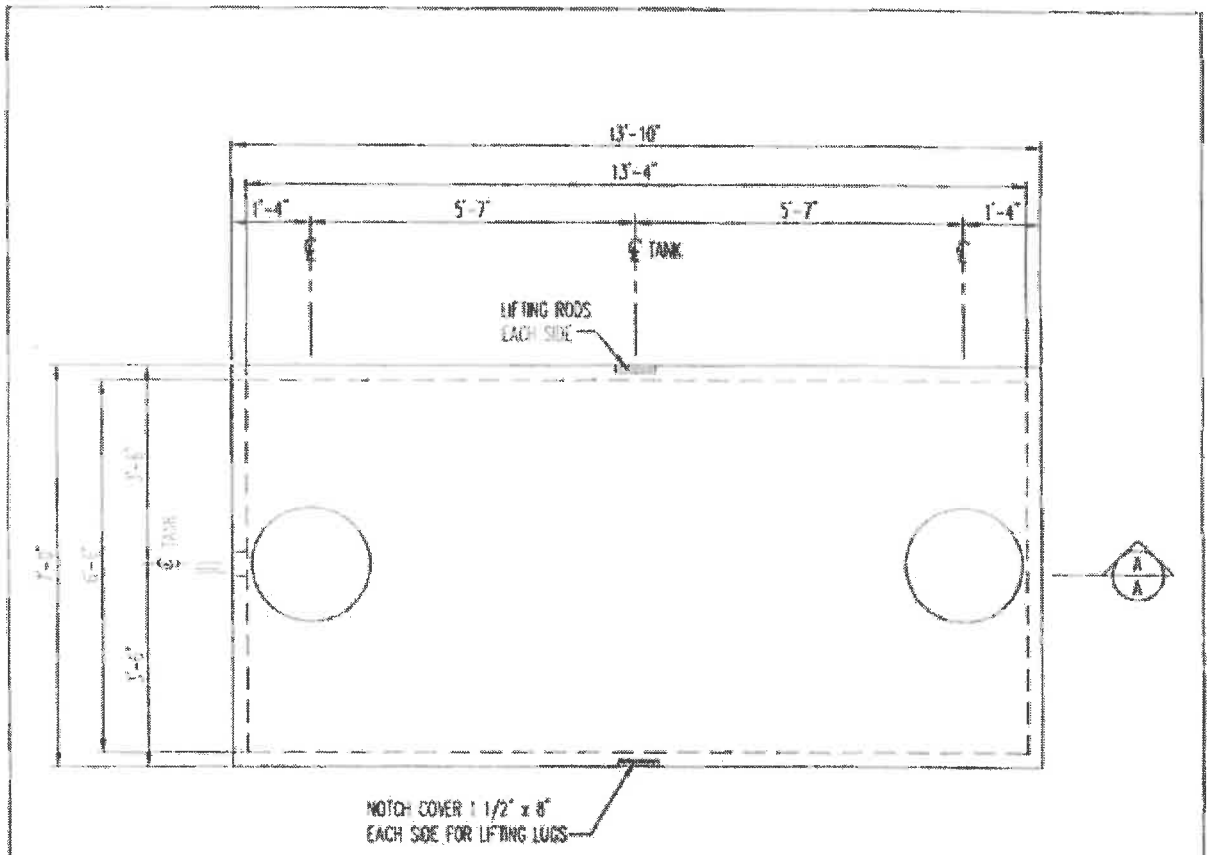
1600 GALLON TANK
 1/2" = 1'-0"



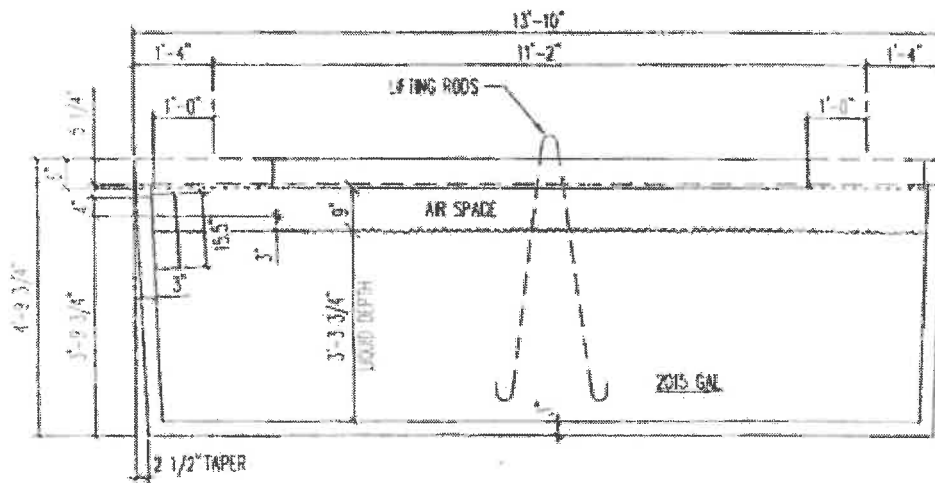
SECTION
 1/2" = 1'-0"

NOTE:
 1. PROVIDE MINIMUM 1" CLEAR BETWEEN TOP OF BAFFLE AND UNDERSIDE OF LID

1600 GALLON SEPTIC TANK (1600 HT)		WEIGHT=14,000# MAX. SOIL COVER= 7'-0"
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2000 GALLON TANK
1/2" = 1'-0"



SECTION A-A
1/2" = 1'-0"

NOTE:

1. PROVIDE MINIMUM 1" CLEAR BETWEEN TOP OF BAFFLE AND UNDERSIDE OF (11)

2000 GALLON HOLDING TANK
(2000 HT)

Brown & Wilbert

WEIGHT=18,800#
MAX. SOLID COVER=4'-0"



Detailed Parcel Report

Parcel Number: 07-0-047708

General Information

Township/City: FARM ISLAND TWP
Taxpayer Name: RUEB, ROY & COLLEEN
Taxpayer Address: 4250 PARIS AVENUE N
STILLWATER MN 55082
Property Address: 30307 408th Pl
Township: 46 Lake Number: 1017800
Range: 27 Lake Name: SPIRIT LAKE
Section: 24 Acres: 0.28
Green Acres: No School District: 1.00
Plat:
Brief Legal Description: .28 AC OF LOT 4 IN DOC 173368

Tax Information

Class Code 1: Non-Comm Seasonal Residential Recreational
Class Code 2: Unclassified
Class Code 3: Unclassified
Homestead: Non Homestead
Assessment Year: 2018

Estimated Land Value:	\$132,500.00
Estimated Building Value:	\$63,700.00
Estimated Total Value:	<u>\$196,200.00</u>
Prior Year Total Taxable Value:	\$189,100.00
Current Year Net Tax (Specials Not Included):	\$1,504.00
Total Special Assessments:	\$0.00
**Current Year Balance Not Including Penalty:	\$752.00
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.