

**{ Design Notes }**

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Owner: Greg Schendel Date: 12/20/2020 Designer's Initials : JB  
PIN : 29-1-439300 Page :      of     

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Designer ( Jeff B ) talked to Terry on or about 5/29/2020. He agreed that Greg could reuse existing pressure bed and move tank location for the propose of adding a entry way to his house and adding a garage.

there is a compliant septic inspection 5/3/2018 on file, plus one from 10/24/2005

Owner will abandon existing shallow well in basement and drill a new deep well north of house.

New deep well will meet all setbacks to septic system. 50 ft to tank and existing pressure bed.

Existing Septic/pump tank to be pumped, collapsed and removed.

Owner will install new plumbing in basement and pressure test new sewer pipe to tank.

Sewer will gravity flow from main floor house, no garbage disposal, lift in basement.

Bench mark ( Elv. 100' ) is the nail on the power pole East of lot across 197th Ave.

Install 2250 Sather 3/ compartment tank for gravity flow from main floor of house, install clean-out near house.

Installer to order Sather tank with side inlet.

Install pump tank low enough for drain-back from Pressure Bed. Install electric alarm on pump tank

Install all tanks with manholes and inspection pipes raised to surface.

It is important that the soils do not get compacted in existing drain field area during construction.

Install 2" supply pipe to drain back to pump tank. Install pump with 17 ft. head and 20 gpm.

Install pump on block in tank, set to dose 4 time a day based on 300 gpd.

Owner and builder are to protect drainfield area from damage thru construction .

Owner confirms lot lines and dimensions.

Owner will get a Engineer's report for the tank to the new garage, the setback will be less than 10 ft setback.

Owner will get a Engineer's report for the pressure bed to the new garage, the setback will be less than 20 ft setback.

New garage will have a poured foundation



12-20-2020

Designer Jeff Brummer L-1347 218-821-0704

Greg Schendel (218) 343-7844

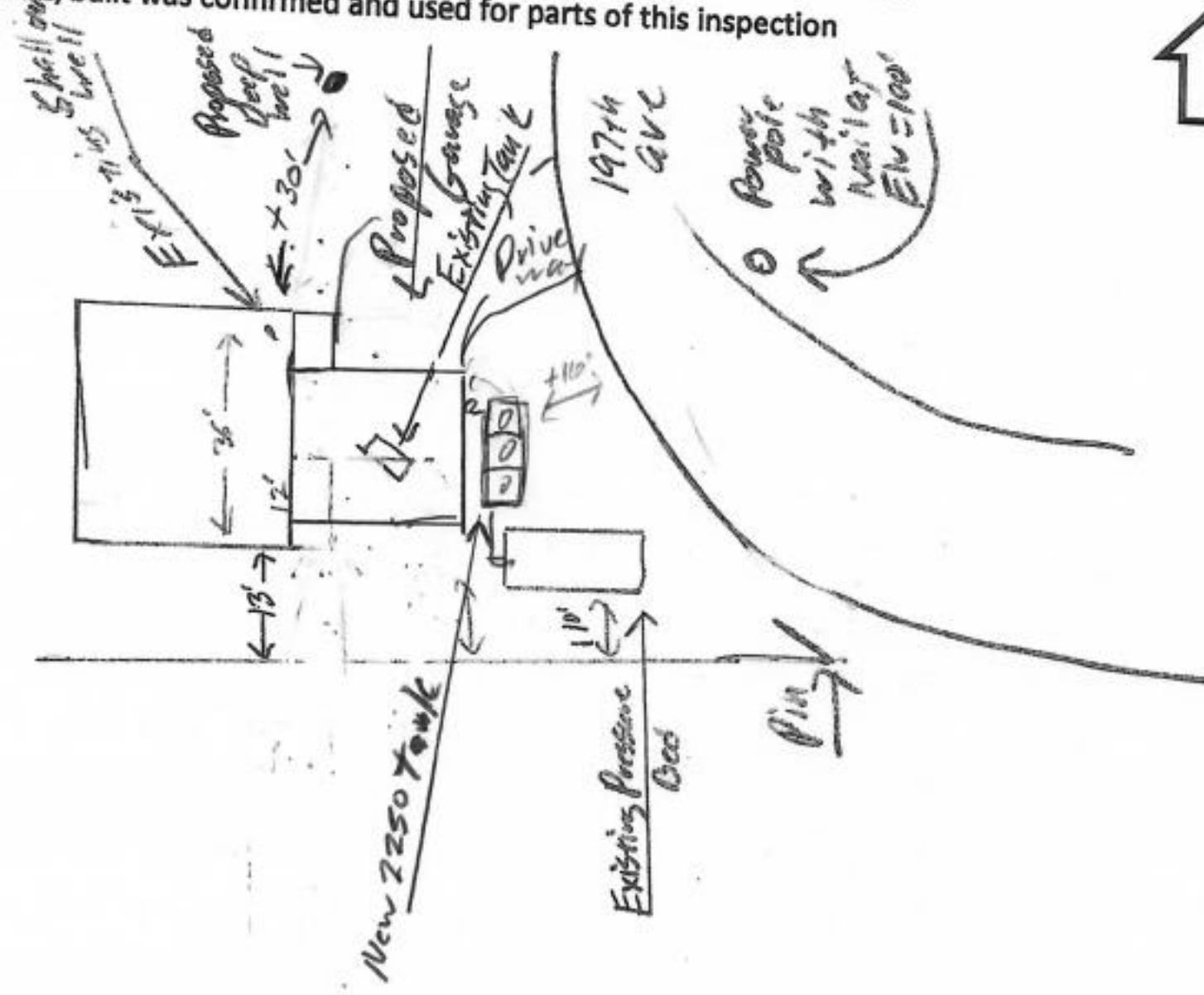
[greg.schendel@krasanderson.com](mailto:greg.schendel@krasanderson.com)

# { Inspection Drawing }

Property Owner: Greg Schendel Date: 12/20/2020 Designer's Initials: JB  
 Parcel ID. Number: 29-1-439300 Address: 49803 197th Ave. McGregor MN 55760  
 Aitkin Co.

One Inch = 40ft.'

Drainfield As/built was confirmed and used for parts of this inspection



- Grade at SE corner of house Elv. = 97.4'
- Elev. Of ground at New Septic Tank = 98.8'
- Estimated Inlet Septic Tank Elv. = 96'
- Inlet Pump Tank Elv. = 95.6'
- Pump Elv. = 92'
- Grade of Existing pressure bed Center Elv. = 100'
- Top of Rock bed of existing pressure bed Elv. = 98.5'

Bench Mark Elv. = 100' nail on power pole across Ave. at corner  
 Ground at proposed Deep well Elv. = 96.2'

Please show all that apply ( Existing )  
 Wells within 100ft. Of Drain field.  
 Water lines within 10 ft. of Drain field.  
 Drain field Areas:

Please Draw to Scale with North to Top or Left Side of Page:

Disturbed/Compacted Areas	Access Route for Tank Maintenance
Component Location	Property Lines
OHW ordinary high water	Structures
Lot Easements	Setbacks

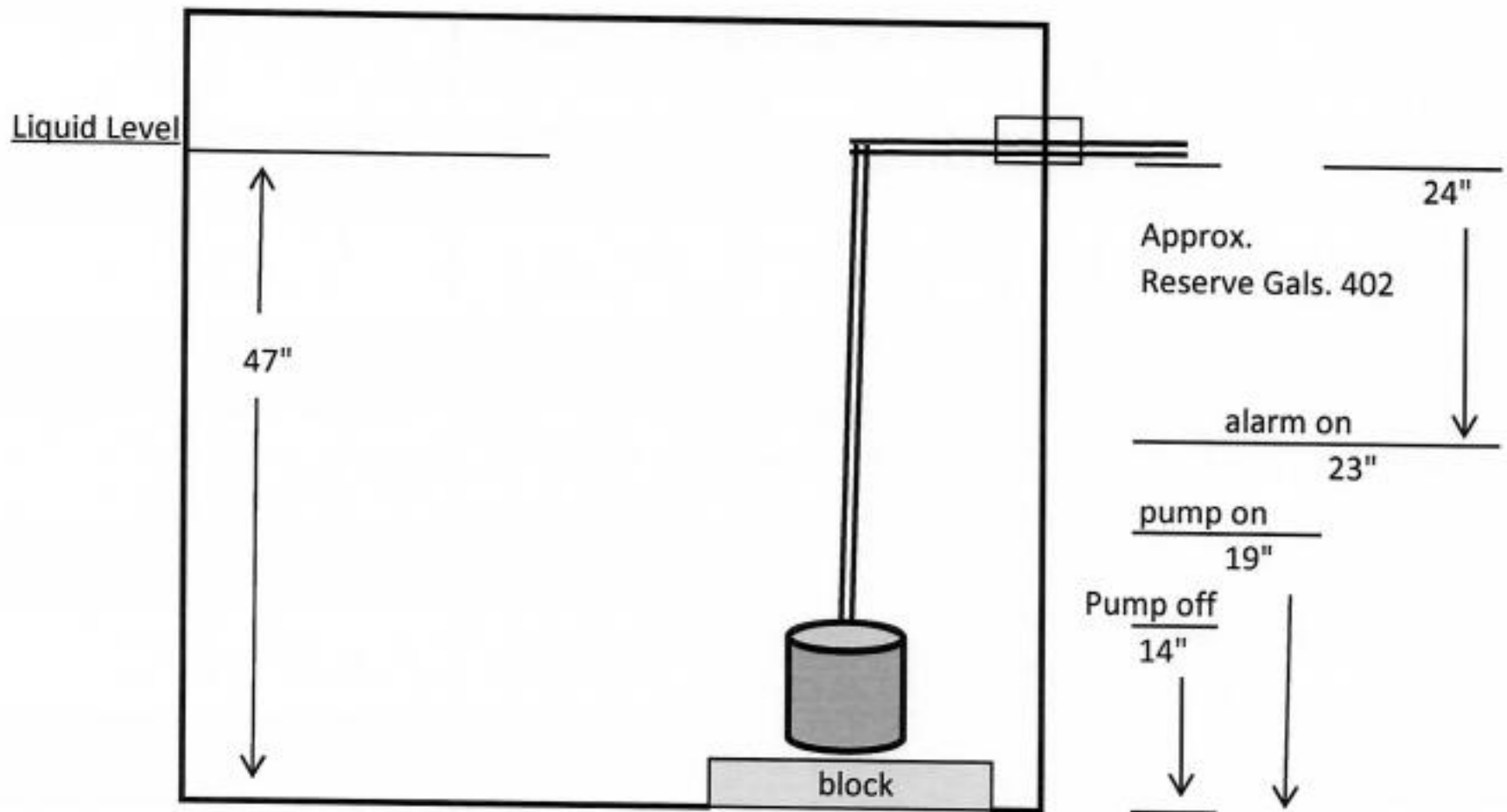
**Pump settings for 722 gal Sather Pump tank.**

2250 Sather tank = 1065/451/722

**Greg Schendel**

Parcel ID. 29-1-439300

Tank Mfg. Sather 722 pump chamber of a 2250 tank  
Tank Size: MFG. 16.79 gals. Per inch



Assumes 10" pump  
Pump out dose at 4.7" = (75 gals. dose + 5 drain back) = 80 pump out gals.  
 $300 \text{ gpd} \div 4 = 75 \text{ gals. Per Dose}$



21947 COUNTY ROAD 3  
 MERRIFIELD, MN 56465  
 (800)829-5755 (218)829-9678 FAX(218)829-4713  
 satherconcreteproducts@live.com

SIZE	WIDTH	LENGTH	INLET	OUTLET	GPI
150	48"ROUND		35"	35"	5.71
350	60"ROUND		40"	40"	9.63
500	5'8"	5'3"	42"	42"	14.13
600	5'8"	5'3"	46.5"	46.5"	14.13
800	5'8"	8'3"	42"	42"	23.43
1000	5'8"	8'3"	48"	46"	23.43
1350	6'	11'	46"	44"	33.16
1500	6'	12'	44"	42"	38.18
2500	7'	14'	53"	51"	53.77
2950	7'	14'	61"	59"	53.79

**COMBINATION AND COMPARTMENTS**

1500	5'8"	12'	48"	46"	23.80/11.81
1600	6'	12'	49"	47"	23.07/14.12
2450	7'	14'	53"	51"	35.70/16.83
2850	7'	14'	61"	59"	35.70/16.83

**3-COMPARTMENT**

2250	7'	14'	49"	47"	24.77/10.50/16.79
2400	special order 7'	14'	53"	51"	24.50/10.28/16.83
2800	7'	14'	61"	59"	24.50/10.28/16.83

2 Compartment Gals.

- 1500 --- 1024 / 503
- 1600 --- 1003 / 614
- 2450 --- 1650 / 800
- 2850 --- 1960 / 925

3 Compartment Gals.

- 2250 --- 1065 / 451 / 722 Try to order with side inlet
- 2850 --- 1340 / 565 / 950

## Sather Tank Burial Depths

**All models are approved by MPCA**

MODEL#	GALLONS	MAX DEPTH
150LL	180	8FT
350JL	356	6FT
500EL	551	7FT
600EL	615	7FT
800EL	914	4FT
1000FS	1111	5FT
1000EL/ES/EH	1019	4FT
1000DS/DL/DH	1059	4FT
1350FS	1376	5FT
1500DL/DS/DH	1508	4FT
1500AC/AP	1002/543	5FT
1500BC/BP	1023/508	6FT
1500CC/CP	1025/504	4FT
1600DC/DP	1004/614	4FT
2250GT	1065/452/722	8FT
2450HC/HP	1651/809	5FT
2500HH/HL/HS	2500	5FT
2950HH/HL/HS	2958	5FT
2400IT	1152/483/791	4FT
2450IC/IP	1678/791	4FT
2500IH/IL/IS	2503	4FT
2900IH/IL/IS	2931	4FT
2800IT	1348/565/926	4FT
2850IC/IP	1964/926	4FT

LAST LETTER IN MODEL#

P=PUMP IN LAST COMPARTMENT

C=COMPARTMENT TWO GRAVITY FLOW

S=SEPTIC GRAVITY TANK

L=LIFT PUMP ONLY

T=TWO COMPARTMENT SEPTIC WITH PUMP IN THIRD COMPARTMENT

H=HOLDING TANK



# Detailed Parcel Report

Parcel Number: 29-1-439300

## General Information

Township/City: SHAMROCK TWP  
Taxpayer Name: SCHENDEL, GREGORY & ANITA  
Taxpayer Address: 5282 LAKEWOOD RD  
DULUTH MN 55804  
Property Address: 49803 197th Ave  
Township: 49 Lake Number: 1006200  
Range: 23 Lake Name: BIG SANDY LAKE  
Section: 16 Acres: 0.00  
Green Acres: No School District: 4.00  
Plat: BELLHORN BAY PARK ON BIG SANDY LAKE  
Brief Legal Description: LOTS 5 & 6 BLK 8

## Tax Information

Class Code 1: Non-Comm Seasonal Residential Recreational  
Class Code 2: Unclassified  
Class Code 3: Unclassified  
Homestead: Non Homestead  
Assessment Year: 2019

Estimated Land Value:	\$179,000.00
Estimated Building Value:	\$63,000.00
Estimated Total Value:	<u>\$242,000.00</u>
Prior Year Total Taxable Value:	\$222,600.00
Current Year Net Tax (Specials Not Included):	\$2,144.00
Total Special Assessments:	\$0.00
**Current Year Balance Not Including Penalty:	\$2,144.00
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.