



Minnesota Pollution Control Agency

520 Lafayette Road North
St. Paul, MN 55155-4194

Existing Subsurface Sewage Treatment System



060059003

m
rs)

Doc Type: Compliance and Enforcement

Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.

Submit completed form to Local Unit of Government (LUG) and system owner within 15 days

RECEIVED
For local tracking purposes:
MAY - 5 2020
ZONING

System Status

System status on date (mm/dd/yyyy): 4-24-2020

Compliant – Certificate of Compliance
(Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)

Noncompliant – Notice of Noncompliance
(See Upgrade Requirements on page 3.)

Reason(s) for noncompliance (check all applicable)

- Impact on Public Health (Compliance Component #1) – Imminent threat to public health and safety
- Other Compliance Conditions (Compliance Component #3) – Imminent threat to public health and safety
- Tank Integrity (Compliance Component #2) – Failing to protect groundwater
- Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwater
- Soil Separation (Compliance Component #4) – Failing to protect groundwater
- Operating permit/monitoring plan requirements (Compliance Component #5) – Noncompliant

Property Information

Parcel ID# or Sec/Twp/Range: 060059003

Property address: 13235 Maple Hill Ln Reason for inspection: County

Property owner: Ryan Olson Owner's phone: _____

or

Owner's representative: _____ Representative phone: _____

Local regulatory authority: Becker County zoning Regulatory authority phone: _____

Brief system description: concrete septic tank & trench type D.F.

Comments or recommendations: _____

Certification

I hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage.

Inspector name: David Olson Certification number: 2228

Business name: Dewegs Septic Service License number: 2884

Inspector signature: [Signature] Phone number: 218-457-1793

Necessary or Locally Required Attachments

- Soil boring logs
- System/As-built drawing
- Forms per local ordinance
- Other Information (list): _____

1. Impact on Public Health – Compliance component #1 of 5

Compliance criteria:	
System discharges sewage to the ground surface.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System discharges sewage to drain tile or surface waters.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System causes sewage backup into dwelling or establishment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Verification method(s):

- Searched for surface outlet
- Searched for seeping in yard/backup in home
- Excessive ponding in soil system/D-boxes
- Homeowner testimony (See Comments/Explanation)
- "Black soil" above soil dispersal system
- System requires "emergency" pumping
- Performed dye test
- Unable to verify (See Comments/Explanation)
- Other methods not listed (See Comments/Explanation)

Any "yes" answer above indicates the system is an imminent threat to public health and safety.

Comments/Explanation: _____

2. Tank Integrity – Compliance component #2 of 5

Compliance criteria:	
System consists of a seepage pit, cesspool, drywell, or leaching pit. <i>Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sewage tank(s) leak below their designed operating depth. If yes, which sewage tank(s) leaks:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Verification method(s):

- Probed tank(s) bottom
- Examined construction records
- Examined Tank Integrity Form (Attach)
- Observed liquid level below operating depth
- Examined empty (pumped) tanks(s)
- Probed outside tank(s) for "black soil"
- Unable to verify (See Comments/Explanation)
- Other methods not listed (See Comments/Explanation)

Any "yes" answer above indicates the system is failing to protect groundwater.

Comments/Explanation: _____

3. Other Compliance Conditions – Compliance component #3 of 5

- a. Maintenance hole covers are damaged, cracked, unsecured, or appear to be structurally unsound. Yes* No Unknown
- b. Other Issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. Yes* No Unknown
***System is an imminent threat to public health and safety.**

Explain: _____

- c. System is non-protective of ground water for other conditions as determined by inspector. Yes* No
***System is failing to protect groundwater.**

Explain: _____

4. Soil Separation – Compliance component #4 of 5

Date of installation: _____ Unknown
(mm/dd/yyyy)

Shoreland/Wellhead protection/Food beverage lodging? Yes No

Compliance criteria:

For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment: Yes No

Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.

Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment: Yes No
**15%*

Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*

"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080, 2350 or 7080.2400 (Advanced Inspector License required) Yes No

Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.

Verification method(s):

Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local requirements differ.

- Conducted soil observation(s) (Attach boring logs)
- Two previous verifications (Attach boring logs)
- Not applicable (Holding tank(s), no drainfield)
- Unable to verify (See Comments/Explanation)
- Other (See Comments/Explanation)

Comments/Explanation:
 0-9 Black Clay 10yr 3/3
 9-20 Brown Clay 10yr 5/4
 20-60 Tan Clay 10yr 6/4
 60-75 Tan Clay 10yr 7/4

Indicate depths or elevations

A. Bottom of distribution media	42"
B. Periodically saturated soil/bedrock	75"
C. System separation	33"
D. Required compliance separation*	32" 15%

*May be reduced up to 15 percent if allowed by Local Ordinance.

Any "no" answer above indicates the system is failing to protect groundwater.

5. Operating Permit and Nitrogen BMP* – Compliance component #5 of 5 Not applicable

Is the system operated under an Operating Permit? Yes No If "yes", A below is required

Is the system required to employ a Nitrogen BMP? Yes No If "yes", B below is required

BMP = Best Management Practice(s) specified in the system design

If the answer to both questions is "no", this section does not need to be completed.

Compliance criteria

- a. Operating Permit number: _____
Have the Operating Permit requirements been met? Yes No
- b. Is the required nitrogen BMP in place and properly functioning? Yes No

Any "no" answer indicates Noncompliance.

Upgrade Requirements (Minn. Stat. § 116.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, repaired, replaced, or its use discontinued, notwithstanding any local ordinance that is more strict. This provision does not apply to systems in shoreland areas, Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.

Soil Observation Log

www.SepticResource.com vers 12.4

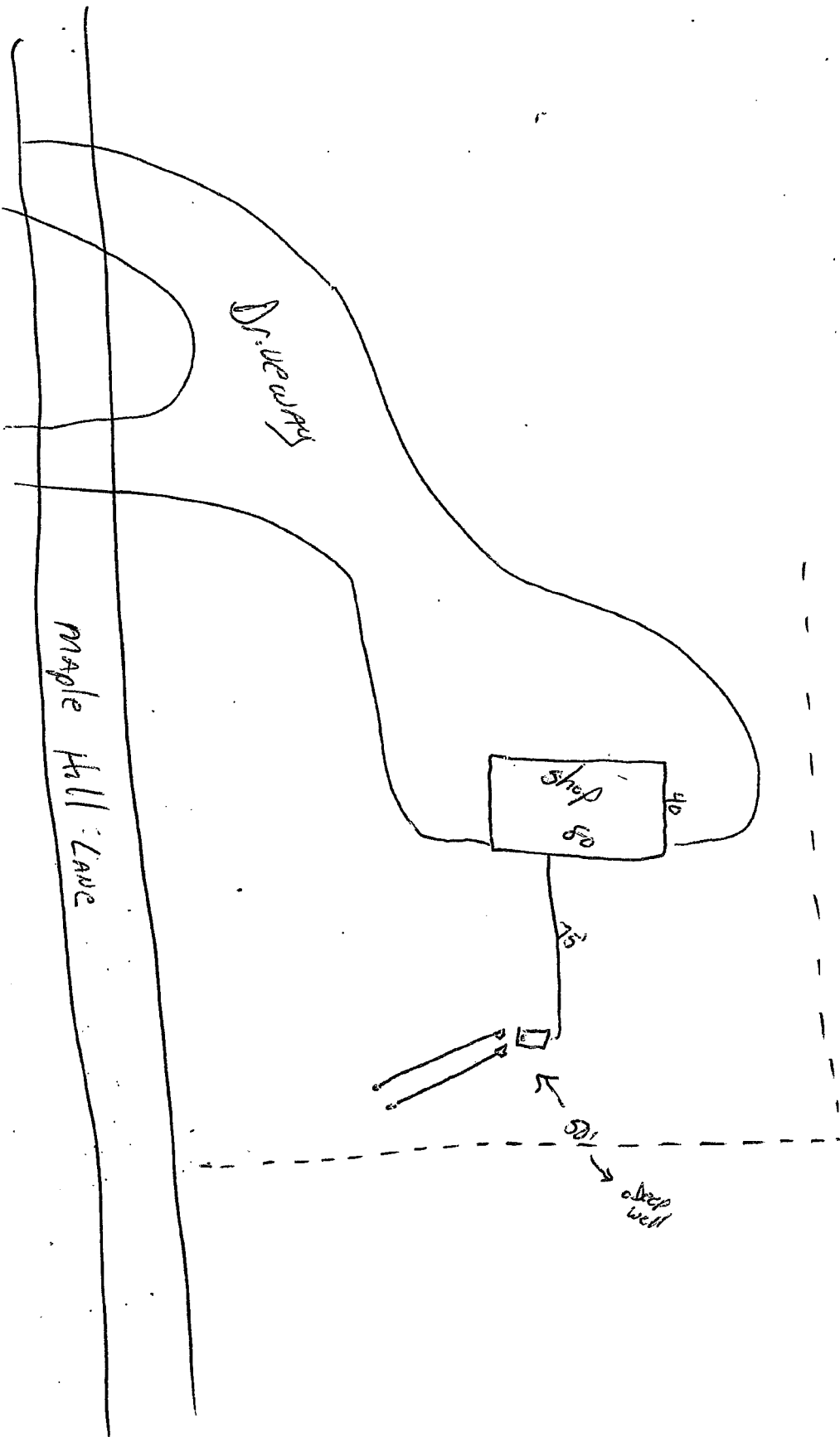
Owner Information	
Property Owner / project: <u>Ryan Olson</u>	Date <u>4-24-2020</u>
Property Address / PID: _____	

Soil Survey Information	
<input type="checkbox"/> refer to attached soil survey	
Parent mat'l's:	<input checked="" type="checkbox"/> Till <input type="checkbox"/> Outwash <input type="checkbox"/> Lacustrine <input type="checkbox"/> Alluvium <input type="checkbox"/> Organic <input type="checkbox"/> Bedrock
landscape position:	<input type="checkbox"/> Summit <input type="checkbox"/> Shoulder <input type="checkbox"/> Side slope <input checked="" type="checkbox"/> Toe slope
soil survey map units:	_____ slope <u>1</u> % direction- <u>downhill</u>

Soil Log #1							
		<input checked="" type="checkbox"/> Boring	<input type="checkbox"/> Pit	Elevation _____	Depth to SHWT <u>75"</u>		
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0-9	Black Clay	<u><35</u> 35 - 50 >50	10YR 3/3		loose <u>friable</u> firm rigid	loose weak <u>moderate</u> strong	single grain granular <u>blocky</u> prismatic platy massive
9-20	Brown Clay	<u><35</u> 35 - 50 >50	10YR 5/4		loose <u>friable</u> firm rigid	loose <u>weak</u> moderate strong	single grain granular <u>blocky</u> prismatic platy massive
20-60	TAN Clay	<u><35</u> 35 - 50 >50	10YR 6/4		loose <u>friable</u> firm rigid	loose <u>weak</u> moderate strong	single grain granular <u>blocky</u> prismatic platy massive
60-72	TAN Clay	<u><35</u> 35 - 50 >50	10YR 7/4		loose <u>friable</u> firm rigid	loose <u>weak</u> moderate strong	single grain granular <u>blocky</u> prismatic platy massive
		<u><35</u> 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

Comments: _____

Olson Shop
By David Olson
2228
4-24-2020



Becker County Planning & Zoning
835 Lake Ave, P O Box 787
Detroit Lakes, MN 56502-0787
Phone (218)-846-7314; Fax (218)-846-7266

Onsite Septic System Site Evaluation/Design

1. PROPERTY DATA (as it appears on the tax statement)

Parcel Number(s) of property system will be installed 06.0059000 ^{•003}
(if parcel is a new split and a parcel number has not yet been issued, indicate the main parcel number from which the new parcel has been split from)
Section 4 Township 138 Range 43 Township Name CORMORANT

Lake Name _____ Lake Classification _____

Legal Description: SW 1/4 of sec 4

Project Address: 13235

2. PROPERTY OWNER INFORMATION (as it appears on the tax statement, purchase agreement or deed).

Owner's First Name DANNY Owner's Last Name OLSON
Mailing Address 17705 Croy Hwy 1 City, State, Zip LAKE PARK, MN 56554
Phone Number 218 238 5202

3. DESIGNER/INSTALLER INFORMATION

Designer Name Jim Shaw Company Name Shaw's Excavating License # 1666
Address 1112 Deerview Trail SW Phone Number 218-838-8322
Pillager, MN 56473
Installer Name _____ Company Name _____ License # _____
<Same as above> Address _____ Phone Number _____

4. SYSTEM DESIGN INFORMATION

Date of Site Evaluation 7-19-05

EXISTING SYSTEM STATUS - Check One

- No existing system-new structure
 Cesspool/Seepage
 Failing (other than cesspool)
 Undersized
 Replacement or repair to existing

What will new system serve? Check one

- Dwelling
 Resort/Commercial
 Commercial (non resort)
 Other - explain below

Design Flow 300 Gallons Per Day
Number of Bedrooms Work Shop
Garbage Disposal Yes No
Grinder Pump in House Yes No
Lift station in House Yes No

Well Depth No Well
Depth of other wells within
100 ft of system None

Original Soil Compacted Soil _____
Type of Soil Observation
 Pit Probe Boring
Depth to Restricting Layer 84" +
Maximum Depth of System 48"

Size of All Tanks to Be installed
1350 gal Septic Tank
 _____ gal Lift Station
 _____ gal Holding Tank
 _____ gal Other Tanks

Type of Drainfield Medium to be used
 Chamber
 H10 _____ EQ36
 _____ Drainfield Rock
 _____ Rock Depth
 _____ Gravelless
 Experimental
 No Drainfield

Type of Alarm _____
 Size of Lift Pump _____
 Size of Lift Line _____

Type of Drainfield to be installed
 Trench
 _____ At-grade
 _____ Pressure Bed
 _____ Seepage Bed
 _____ Mound

Size of Drainfield sq ft to be installed
 _____ sq ft
 _____ sq ft
 _____ sq ft
 _____ sq ft
 _____ sq ft

SETBACKS
 TANK DRAINFIELD
 Distance to Well _____
 Distance to Building 60' 85'
 Distance to Property Line 50'+ 50'+
 Distance to OHW _____
 Distance to Pressure Line _____

Perc Rate 17 Soil Sizing Factor 1.67 *If SSF other than .83, attach Perc Test Data

Depth	Texture	Color	Structure	Depth	Texture	Color	Structure
0"-8"	Topsoil	10yr 5/2	Blocky	0"-8"	Topsoil	10yr 5/2	Blocky
8"-84"	Clay/Sand	10yr 6/4	Moderate	8"-84"	Clay/Sand	10yr 6/4	Moderate
84"	End of Boring	No	Mottles	84"	End of Boring	No	Mottles

5. DESIGNER'S CERTIFIED STATEMENT

I, Jim Shaw certify that I have completed the preceding design work in accordance with all applicable requirements (including, but not limited to Minnesota Chapter 7080 and the Becker County Individual Sewage Treatment System Ordinance).

[Signature] Signature of Designer 7-19-05 Date

*****FOR OFFICE USE ONLY*****
 Application Approved by: Hebi Moltz Date: 9-28-05
 Amount Paid 100⁰⁰ Receipt Number 90441-34567 Permit Number _____

CERTIFICATE OF COMPLIANCE

() Certificate Is Hereby Denied
 Certificate is Hereby Granted Based upon the Application, addendum from, plans, specifications and all other supporting data. With property maintenance, this system can be expected to function satisfactory, however, this is not a guarantee.

Hebi Moltz Signature Supervisor of Inspections Title 9/30/05 Date

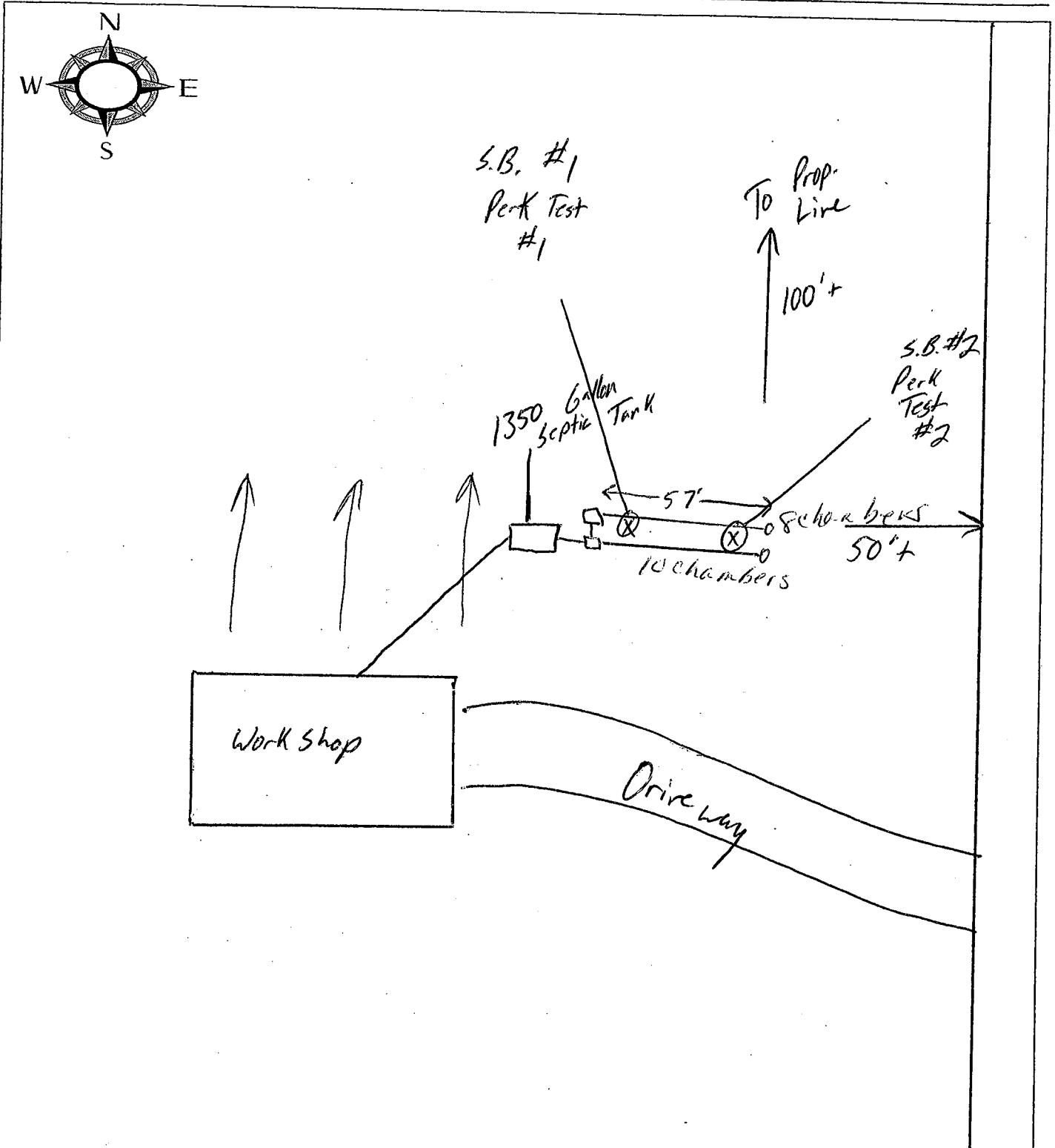
(Certificate of Compliance is not valid unless signed by a Registered Qualified Employee)
 Date System Installed 9-29-05 Inspected by Hebi Moltz

SITE PLAN

I hereby agree to have flags, lathes, or ribbons in place for inspection by date: 7-19-05

I understand that Becker County will not issue the permit until staking has been approved.

Signature _____



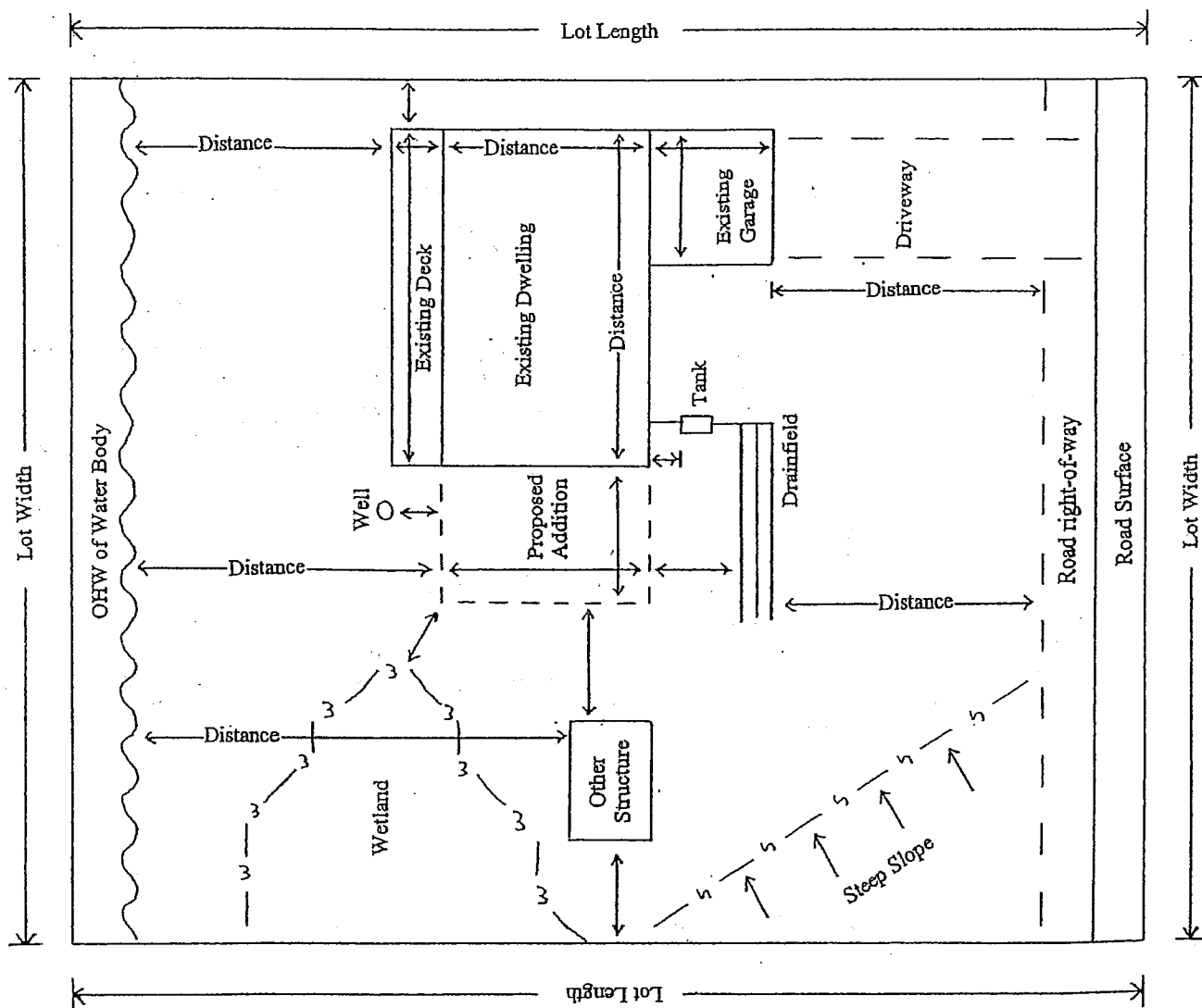
I hereby certify and agree that the above sketch accurately represents the work to be done in conjunction with this permit.

[Signature]
Applicant or Agent

Date 7-19-05

SITE PLAN EXAMPLE

NT



PERCOLATION TEST DATA

-TWO TESTS ARE REQUIRED-

	Perc test #1	Perc test #2
Diameter of hole (Circle one)	6" 7" 8"	6" 7" 8"
Depth to bottom of hole	15"	15"
Did the hole require presoaking?	Yes	Yes

PERC TEST #1

Time	Interval (minutes)	Water Depth	Water Drop	Perc Rate
10:56 11:26	START 30 Min	17.5" 15.2"	2.3"	$\frac{30 \cdot 2.3}{17.5 - 15.2} = 13$ TIME DROP PERC
11:26 11:56	START 30 Min	15.2" 13.1"	2.1"	$\frac{30 \cdot 2.1}{15.2 - 13.1} = 14$ TIME DROP PERC
11:56 12:41	START 45 Min	13.1" 9.8"	3.3"	$\frac{45 \cdot 3.3}{13.1 - 9.8} = 14$ TIME DROP PERC
12:41 2:36	START 115 Min	9.8" 2.2"	7.6"	$\frac{115 \cdot 7.6}{9.8 - 2.2} = 15$ TIME DROP PERC
2:36 4:19	START 103 Min	10.5" 3.1"	7.4"	$\frac{103 \cdot 7.4}{10.5 - 3.1} = 14$ TIME DROP PERC
	START			
	START			
	START			

PERC TEST #2

Time	Interval (minutes)	Water Depth	Water Drop	Perc Rate
10:56 11:26	START 30 Min	21.75" 19.25"	2.5"	$\frac{30 \cdot 2.5}{21.75 - 19.25} = 12$ TIME DROP PERC
11:26 11:56	START 30 Min	19.25" 17.00"	2.25"	$\frac{30 \cdot 2.25}{19.25 - 17.00} = 13$ TIME DROP PERC
11:56 12:41	START 45 Min	17.00" 13.50"	3.5"	$\frac{45 \cdot 3.5}{17.00 - 13.50} = 13$ TIME DROP PERC
12:41 2:36	START 115 Min	13.50" 5.60"	7.9"	$\frac{115 \cdot 7.9}{13.50 - 5.60} = 14.5$ TIME DROP PERC
2:36 4:19	START 103 Min	9.8" 2.8"	7"	$\frac{103 \cdot 7}{9.8 - 2.8} = 14.7$ TIME DROP PERC
	START			
	START			
	START			

PERCOLATION RATE 14 SSF 1.27

PERCOLATION RATE 13.5 SSF 1.27

Anticipated construction related concerns: _____

Other information:

Both Perc Tests indicated the use of 1.27 ft²/Gal./Day.
I calculated the design at a 1.67 ft²/Gal./Day

