

ZIERKE SOIL TESTING

Emily Maher
10733 69th St N
Stillwater, MN 55082

8/20/2024


Dear Emily Maher,

At your request, I have conducted a septic inspection to determine the compliance status of your septic system pursuant to Minnesota Rules Chapter 7080.1500.

The compliance test set out in 7080.1500 has three main inquiries: 1). Is the system functioning hydraulically (disposing of effluent in a manner that prevents it from coming in contact with people)? 2). Are the septic tanks water tight? 3). Does the system have sufficient vertical separation between the bottom of the septic system and restrictive layers (bedrock, standing water, seasonally wet layers, etc) to provide full treatment of effluent?

Based off of these criteria, your septic system is compliant. A certification of compliance is in effect for three years from the date it is issued. To be clear, this should not be construed as a guarantee of future system function – there are too many factors that influence the lifespan of a septic system for an inspector to predict or even guess how long a septic system will last. A copy of this report will be filed with your local unit of government for their records.

Sincerely,



Benjamin Zierke
MPCA Lic 119, Cert 9594

ADDRESS:
28587 Jeffrey Ave
Chisago City, MN 55013

PHONE 651-249-1346
EMAIL benzierke@gmail.com

Instructions: Inspector must submit completed form to Local Governmental Unit (LGU) and system owner within 15 days of final determination of compliance or noncompliance. Instructions for filling out this form are located on the Minnesota Pollution Control Agency (MPCA) website at <https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf>.

Property information

Local tracking number: _____

Parcel ID# or Sec/Twp/Range: 3503021120005 Reason for Inspection Sale

Local regulatory authority info: Washington County

Property address: 10733 69th St N Stillwater, MN 55082

Owner/representative: Emily Maher Owner's phone: 651-214-8198

Brief system description: (2) 1000 gallon septic tanks, gravity rock trench drainfield

System status

System status on date (mm/dd/yyyy): 8/20/2024

Compliant – Certificate of compliance*

Noncompliant – Notice of noncompliance

(Valid for 3 years from report date unless evidence of an imminent threat to public health or safety requiring removal and abatement under section 145A.04, subdivision 8 is discovered or a shorter time frame exists in Local Ordinance.)

Systems failing to protect ground water must be upgraded, replaced, or use discontinued within the time required by local ordinance.

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 or under section 145A.04 subdivision 8.

***Note: Compliance indicates conformance with Minn. R. 7080.1500 as of system status date above and does not guarantee future performance.**

Reason(s) for noncompliance (check all applicable)

- Impact on public health (Compliance component #1) – *Imminent threat to public health and safety*
- Tank integrity (Compliance component #2) – *Failing to protect groundwater*
- Other Compliance Conditions (Compliance component #3) – *Imminent threat to public health and safety*
- Other Compliance Conditions (Compliance component #3) – *Failing to protect groundwater*
- System not abandoned according to Minn. R. 7080.2500 (Compliance component #3) – *Failing to protect groundwater*
- Soil separation (Compliance component #5) – *Failing to protect groundwater*
- Operating permit/monitoring plan requirements (Compliance component #4) – *Noncompliant - local ordinance applies*

Comments or recommendations

System functioning normally during site visit 8/15/2024. Recommend clearing out all the small/medium trees that are growing on top of the drainfield as the roots could diminish the lifespan of the drainfield. Care should be taken not to damage the trenches during this process - minimize surface compaction by using tracked equipment.

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.

By typing my name below, I certify the above statements to be true and correct, to the best of my knowledge, and that this information can be used for the purpose of processing this form.

Business name: Zierke Soil Testing Certification number: 9594

Inspector signature: *Benjamin Zierke* License number: 119

(This document has been electronically signed)

Phone: 651-249-1346

Necessary or locally required supporting documentation (must be attached)

- Soil observation logs
- System/As-Built
- Locally required forms
- Tank Integrity Assessment
- Operating Permit
- Other information (list): Permit Information

1. Impact on public health – Compliance component #1 of 5

Compliance criteria:

System discharges sewage to the ground surface Yes* No

System discharges sewage to drain tile or surface waters. Yes* No

System causes sewage backup into dwelling or establishment. Yes* No

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

Describe verification methods and results:

None of the above observed.

Attached supporting documentation:

Other: _____

Not applicable

2. Tank integrity – Compliance component #2 of 5

Compliance criteria:

System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Yes* No

Sewage tank(s) leak below their designed operating depth? Yes* No

If yes, which sewage tank(s) leaks: _____

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

Describe verification methods and results:

Present for pumping by Olson's Sewer Service 8/15/2024. Tanks water tight and baffles in place (confirmed with camera).

Attached supporting documentation:

Empty tank(s) viewed by inspector

Name of maintenance business: Olsons

License number of maintenance business: 216

Date of maintenance: 8/20/2024

Existing tank integrity assessment (Attach)

Date of maintenance (mm/dd/yyyy): _____ (must be within three years)

(See form instructions to ensure assessment complies with Minn. R. 7082.0700 subp. 4 B (1))

Tank is Noncompliant (pumping not necessary – explain below)

Other: _____

3. Other compliance conditions – Compliance component #3 of 5

3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unsecured?

Yes* No Unknown

3b. Other issues (*electrical hazards, etc.*) to immediately and adversely impact public health or safety? Yes* No Unknown

***Yes to 3a or 3b - System is an imminent threat to public health and safety.**

3c. System is non-protective of ground water for other conditions as determined by inspector?

Yes* No

3d. System not abandoned in accordance with Minn. R. 7080.2500?

Yes* No

***Yes to 3c or 3d - System is failing to protect groundwater.**

Describe verification methods and results:

Attached supporting documentation: Not applicable

4. Operating permit and nitrogen BMP* – Compliance component #4 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 specified in the system design? 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. 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.

Describe verification methods and results:

Attached supporting documentation: Operating permit (Attach)

5. Soil separation – Compliance component #5 of 5

Date of installation 6/17/1997 Unknown
(mm/dd/yyyy)

Shoreland/Wellhead protection/Food beverage lodging? Yes No

Compliance criteria (select one):

5a. 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.

5b. 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*
 Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*

5c. "Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules 7080.2350 or 7080.2400 (Intermediate Inspector License required ≤ 2,500 gallons per day; Advanced Inspector License required > 2,500 gallons per day) Yes No*
 Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.

Attached supporting documentation:

- Soil observation logs completed for the report
- Two previous verifications of required vertical separation
- Not applicable (No soil treatment area)
- _____

Indicate depths or elevations

A. Bottom of distribution media	95.7'
B. Periodically saturated soil/bedrock	92.7'
C. System separation	3.0'
D. Required compliance separation*	3.0'

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

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

Describe verification methods and results:

See attached boring log and elevations.

Upgrade requirements: (Minn. Stat. § 115.55) 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.

**Relative Elevations
in Decimal Feet:**

**B1: 100.0
B1 Redox: 92.7+
Bottom of rock: 95.7
B1 Separation: 3.0
Benchmark: 118.2
(bottom of siding
side of house)**

BM

Tanks

Drainfield

B1

Probe

10733



Logs of Soil Borings

Location of Project: 10733 69th St N Stillwater, MN 55082

Borings Made by Ben Zierke

Date:

8/15/2024

Hand bucket auger used for borings; USDA - SCS Soil Classification used.

Depth, in Inches	Boring Number 1	Depth, in Inches	Boring Number 2
0-----	-----	0-----	-----
0-8"	10YR 3/2 loam		
8-16"	7.5YR 4/4 loam		
16-64"	10YR 4/4 silt loam		
64-88"	7.5YR 4/4 loamy sand, 10% rock		

End of boring at 7.3 feet

Standing water table:

Present at _____ feet of depth _____ Hours after boring

Standing water not present in hole

Mottled Soil:

Observed at _____ feet of depth

Mottled soil not present in bore hole

Comments:

End of boring at _____ feet

Standing water table:

Present at _____ feet of depth _____ Hours after boring

Standing water not present in hole

Mottled Soil:

Observed at _____ feet of depth

Mottled soil not present in bore hole

Comments:

Depth, in Inches	Boring Number 3	Depth, in Inches	Boring Number 4
0-----	-----	0-----	-----

End of boring at _____ feet

Standing water table:

Present at _____ feet of depth _____ Hours after boring

Standing water not present in hole

Mottled Soil:

Observed at _____ feet of depth

Mottled soil not present in bore hole

Comments:

End of boring at _____ feet

Standing water table:

Present at _____ feet of depth _____ Hours after boring

Standing water not present in hole

Mottled Soil:

Observed at _____ feet of depth

Mottled soil not present in bore hole

Comments:



WASHINGTON COUNTY, MINNESOTA
 Department of Health, Environment,
 and Land Management 612/430-6708

Scanned 8/25/08 dm

PERMIT NUMBER 8797056 SEWAGE PERMIT
 GRAFT CITY

Owner : DAVID STRASBURG
 10733 69TH ST N
 STILLWATER MN 55082
 Applicant : ADRIENNE JOHNSON-EDIHA REALTY 612

DRAINFIELD REPLACEMENT PERMIT	70.00
SEPTIC APPLICATION/SOIL REVIEW	150.00
Total Fees :	220.00
Total Paid :	220.00
Total Due :	.00

87-97056

PERMISSION IS HEREBY GRANTED

To execute the work specified in this permit on the following described property upon express condition that said persons and their agents, employees and workmen shall conform in all respects to the provisions of the Building Code, and/or Ordinances.

This permit may be revoked at any time upon the violation of any of the provisions of said code and ordinances.

Project Address : 10733 69TH ST N STILLWATER MN 55082

Flow Capacity 600 Gal/Day

Soil Conditions: Depth to Restriction 72 Inches Perc Rate 11 Min/Inch

Soil Treatment Area Type:

In Ground Y In Fill N Bed N Drain Field Y

Authorized Work / Special Conditions

- Install individual sewage treatment system as per approved design in area tested and shown on site plan.
- THIS SYSTEM MUST BE INSTALLED BY A CERTIFIED/LICENSED SEWAGE TREATMENT SYSTEM INSTALLER HOLDING A CURRENT LICENSE WITH THE MINNESOTA POLLUTION CONTROL AGENCY. (A list of installers is available at your request.)
- Rope off and protect tested area from all vehicle traffic.
- Maximum trench depth 36 inches into natural soil.

** Permit Expiration Date : Sewage Treatment : 5/14/98

A CERTIFICATE OF OCCUPANCY MUST BE REQUESTED AND ISSUED PRIOR TO USE OR OCCUPANCY OF WORK PERMITTED BY A BUILDING PERMIT.

** This permit shall expire and be null and void if the work authorized by the Building Permit is not commenced within 60 days of the date of issuance or if work is abandoned or suspended for a period of 120 days. Term of the Building Permit is 12 months from date of issue. Term of sewage treatment permit is 6 months from date of issue.

Penalty for violation of any of the provisions of building code: Fine not to exceed five hundred dollars (\$500.00) or imprisonment for not more than ninety (90) days, or both.

Permit Issue Date 5/14/97 Code Enforcement Officer Allen Bonds

INSPECTION RECORD

BUILDING	DATE	INSP.	COMMENTS
Foundation.....			
Foundation Wall.....			
Plumbing (Groundwork).....			
Heating (Groundwork).....			
Rough Plumbing.....			
Rough Gas Piping.....			
Rough Heating and Ventilation.....			
Framing.....			
Insulation.....			
Fireplace.....			
Chimney.....			
Wallboard or Lath and Plaster.....			
Final Electrical.....			
Final Plumbing.....			
Final Gas Piping.....			
Final Heating and Ventilation.....			
Final Building.....			<i>2 lines out of house</i>

SEWAGE TREATMENT SYSTEM	DATE	INSP.	COMMENTS
Installation.....	<i>6-17-97</i>		<i>6 lines</i>
As Built.....	<i>6-17-97</i>	<i>AS</i>	Tank Size: <i>2-1000</i> Treatment Area: <i>1000 sq ft</i> Installer: <i>Mike Peterson</i>

DRIVEWAY	DATE	INSP.	COMMENTS
Access.....			
Installation.....			

NOTES:



STANDARD SYSTEM DESIGN INDIVIDUAL SEWAGE TREATMENT SYSTEM

WASHINGTON COUNTY HEALTH, ENVIRONMENT & LAND MANAGEMENT
14900 N. 61ST STREET, P.O. BOX 3803, STILLWATER, MN 55082-3803
612/430-6708 OR 612/430-6656 FAX 612/430-6730

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Owner's Name	DAVE STRASBURG
Job Site Address	10733 NO 69TH STREET
City or Township	CITY OF GRANT
Use of Building	HOME - 4-BEDROOMS

Design Flow Rate <i>600 GAL PER DAY</i>	Perc Rate <i>6-11 MPI</i>	Land Slope <i>UNEVEN GROUND 16-21</i>	Percent
Two Required Tank Sizes	<i>1000 Gallons 1000 Gallons</i>	Lift Station Tank Size	Gallons
Type of System (standard, at grade or bed)		<i>STANDARD</i>	
System Size:	<i>1000 -Square Feet</i>	<i>334 -Lineal Feet</i>	<i>36" -Trench Width</i>
Depth of rock below pipe	<i>12"</i>	Depth of Rock Above Pipe	<i>2"</i>
MINimum Depth of Trench From Existing Grade	<i>24 Inches</i>	MAXimum Depth of Trench From Existing Grade	<i>36" Inches</i>
Recommended Number of Trenches	<i>5</i>	Recommended Length of Trenches	<i>65-70</i>
Trench Spacing Measured Center to Center		<i>7 Feet</i>	
Any Other Special Conditions <i>BECAUSE OF SLOPE ESTABLISH COUGH OVER THE TRENCHES WHEN THE WORK IS COMPLETED- YOU MAY WANT TO CONSIDER WOOD FIBER BLANKET TO CONTROL EROSION</i>			

IF PRESSURE DISTRIBUTION IS USED, COMPLETE THE PRESSURE DISTRIBUTION WORK SHEET ATTACHED.

This design must be accompanied by a site plan that clearly shows the location of the area tested and approved by the following:

1. Use an appropriate scale and indicate direction by use of a north arrow.
2. Show ALL property boundaries, rights-of-way, easements, wetlands. If necessary, an enlarged detail of the house site may also be required.
3. Show location of house, garage, driveway and all other improvements existing or proposed.
4. Show location and layout of sewage treatment system.
5. Show location of water supply (well and/or community supply line).
6. Dimension all setbacks and separation distances.

This system has been designed by a Pollution Control Agency (PCA) Certified Professional.

Designer Name <i>DALE EKLIN</i>	STATE # <i>410</i>
Address <i>1986 RIDGEWOOD AVE. W.B LAKE MN 55110</i>	PCA Certification # <i>695</i>
Signature <i>[Signature]</i>	Phone # <i>429-1090</i>
	Date <i>5-7-97</i>



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MAY 09 1997
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SOIL REVIEW/SEPTIC PERMIT APPLICATION

Washington County Health, Environment & Land Management
14900 61st Street N., P.O. Box 3803
Stillwater, MN 55082-3803
612/430-6708 or 612/430-6656 FAX 612/430-6730

FEE FD \$220.00
Receipt # 27297

Make checks payable to WASHINGTON COUNTY TREASURER

- \$150 - Application Fee (site review)
- \$150 - New Drainfield System Permit Fee
- \$250 - New Mound System Permit Fee
- \$25 - Additional Review Fee (1 hour minimum)
- \$70 - Replacement Drainfield System Permit Fee
- \$170 - Replacement Mound System Permit Fee
- \$100 base fee, plus \$50 per lot - Subdivision Fee

87-99056
83035-3450
VED: 35-030-21-12-0005

Legal Description and Parcel Identification Number (especially if this is for a NEW SUBDIVISION OR MINOR SUBDIVISION) 10733 NO 69TH STREET CITY OF GRANT
E 1/2 - SE 1/4 - NW 1/4 35/30/21

Applicant	Address	City	State	Zip	Phone
DAVID STRASBURG	10733 NO 69TH STREET	STILLWATER MN		55082	
Owner (if different from applicant)	Address	City	State	Zip	Phone
				430-1886	

New Home Existing Home New Business Existing Business Number Of Bedrooms: 4 Gallons Per Day: 600

Check the following fixture(s) which are or will be installed: Garbage Disposal Recreational Bathing Facility: (jacuzzi, hot tub, etc.)

New Drainfield System New Mound System Replacement Drainfield System Replacement Mound System Permit Renewal

Approval Only If this site has been approved, attach copy of approval letter Additional Soil Test Data for Previously Approved Site

The following exhibits are required as part of this application and shall be attached hereto: Percolation Test Reports; Soil Boring Logs; Site Plan drawn to scale showing location of buildings, lot lines, percolation test holes, soil boring holes, proposed location of system and well; one (1) copy of the System Design; and one (1) copy of the Final Building Plan. The house and the drainfield areas must be staked. Inaccurate or incomplete information will result in delays in processing.

AGREEMENT: The undersigned hereby makes Application for Permit to Install or Extend Sewage Treatment System herein specified, agreeing that all such work shall be done in strict accordance with ordinances and regulations of the County of Washington, Minnesota. Applicant agrees that the Site Plan, Sketches and Design submitted herewith, and which are reviewed by the Washington County Building Official or his agent, together with any requirement and/or restriction made necessary by conditions peculiar to a particular location, shall become a part of the permit. Applicant further agrees to provide access, at reasonable times, to the Building Official or his agent for the purpose of performing inspections required and that no part of the system shall be covered until it has been inspected and accepted. **APPLICATION IS FOR AN INSTALLATION AT A SPECIFIC LOCATION; ANY DEVIATION FROM THE APPROVED LOCATION WILL VOID THE PERMIT.** It shall be the responsibility of the applicant for the permit to notify the Office of the Building Official that the installation is ready for inspection.

In connection with your request for a soil review/septic permit, you are hereby giving us permission to enter upon your property during normal business hours for the purpose of determining the suitability of the location, which may include minor excavation or soil borings.

David M. Hely 5-8-97
Signature of Applicant (Owner or Builder) Date

THE AREA BELOW IS FOR COUNTY USE ONLY

SITE EVALUATION: BY INSPECTOR AL Goodrum DATE 5-13-97

Setbacks:	Required [circle appropriate item(s)]					Actual
	50'	75'	100'	150'		
Well (including adjacent property)						
Wetland, Pond, Lake, Stream, River, or Bluffline						

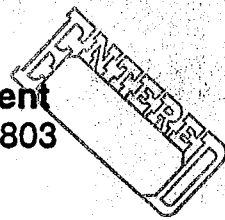
CONCLUSIONS: Site Suitable: Site Unsuitable: Additional Tests Required: Verify Use: Bedrooms

NOTES: Lot Size 330X660 Year Built 1964

EXISTING HOME 36" depth sandy soil open
field side slope gravity.

AS-BUILT REPORT INDIVIDUAL SEWAGE TREATMENT SYSTEM

Washington County Health, Environment & Land Management
 14900 61ST ST N, PO BOX 3803, STILLWATER, MN 55082-3803
 612/430-6708 or 612/430-6656 FAX 612/430-6730



Local Description or Complete Street Address		City or Township			
Owner Name	Mail Address	City	State	Zip	
David Strausberg	10733 69th St. N.	Stillwater	Mn.	55082	
Installer	Mail Address	City	State	Zip	
Peterson Exp. Inc.	21090 Opuk Ct. N.	Scandia	Mn.	55073	
Basic Tank Information		Liquid Capacity:			
Tank Manufacturer: American Precast		2 @ 1000			

PUMP CHAMBER (if installed)			
Tank Manufacturer:	Liquid Capacity:	Horsepower of Pump:	Type of Warning Device:
	N/A		
Pump Discharge in Gallons Per Minute:	at	Feet of Head	Number of Gallons Pumped Per Cycle:

DRAINFIELD TRENCH		BED OR MOUND		
Width:	Length of Each Trench:	Rock Bed Length:	Width:	Area:
3 feet	3 @ 65 2 @ 70			
Depth of Trench Bottom from Finished Grade:		Bed Depth from Grade:		
24 to 36"				
Method of Distribution:		MOUND:		
<input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Distribution Box <input checked="" type="checkbox"/> Drop Box		Upslope Sand Base Depth:		
Depth of Rock Under Distribution Pipe:		Downslope Sand Base Depth:		
12 inches				
Square Footage of Tested Area Used:		PRESSURE DISTRIBUTION SYSTEM:		
5000		Lateral Inside Diameter:	Length:	Perforation Size:
Trench Bottom Square Footage Required:	Area As Built:	Spacing:	Number:	Perforation Spacing:
1,000	1,000			

Complete site plan on attached sheet. On the site plan, include location of:
 structure, septic tank, pump chamber, line from house to tank treatment system, distribution lines, distribution or drop boxes, well, and driveway. Show all distances applicable to the sewage treatment system (distance from structure to tank, tank to treatment system, distance between distribution lines, length of distribution lines, and distance between well and sewage treatment system). Indicate NORTH on the site plan and the scale of the plan.

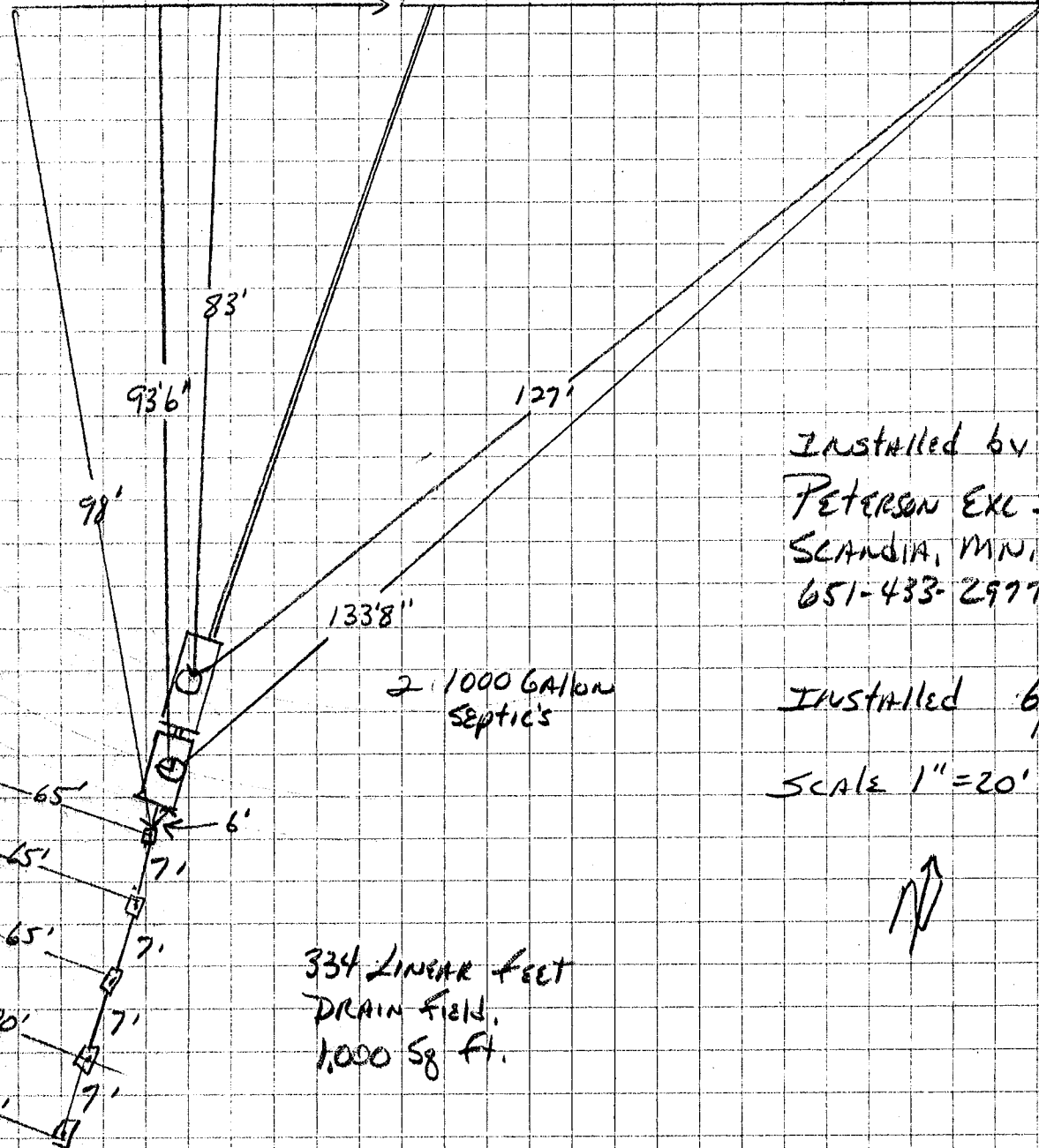
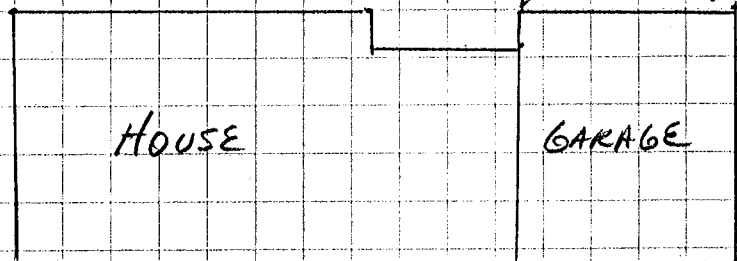
Installed 6/97

ASBUILT.FRM:DC 9/93

WASHINGTON COUNTY SEPTIC PERMIT NUMBER 87 97056

DAVE STRASBERG
 10733 69th STREET N.
 GRANT

X WELL



Installed by
 PETERSON EXC INC.
 SCANDIA, MINN. 55073
 651-433-2977

Installed 6/97
 SCALE 1" = 20'



334 LINEAR FEET
 DRAIN FIELD.
 1000 SF.

2	
65	70
5	5
325	350