



WASHINGTON COUNTY, MINNESOTA

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

NEW SCANDIA TOWNSHIP

PERMIT NUMBER 9497073 SEWAGE PERMIT

Owner : BECKY MONSON
ROUTE 2, BOX 114
PINE CITY MN 55063
Applicant : BECKY MONSON 320-629-3149

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

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 : 12620 181ST ST N MARINE ON ST CROIX MN 55047

Flow Capacity 450 Gal/Day
Soil Conditions: Depth to Restriction 72 Inches Perc Rate 16 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.
- OK to use existing sewage tank if inspection shows sound construction (precast) and functioning baffles.
- 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.)
- Maximum trench depth 36 inches into natural soil.

** Permit Expiration Date : Sewage Treatment : 7/14/98

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 7/14/97 Code Enforcement Officer Allen Bonds

94-97073

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>gravity</i>

SEWAGE TREATMENT SYSTEM	DATE	INSP.	COMMENTS
Installation	<i>7-23-97</i>	<i>9/2</i>	<i>existing 1200</i> Tank Size: <i>1000</i> Treatment Area: <i>250 sq</i> <i>3 lines</i>
As Built			Installer: <i>Scandia Trucking</i>

DRIVEWAY	DATE	INSP.	COMMENTS
Access			
Installation			

NOTES:

181st St. N.

ROW ← 350' →

N ↓

wooded

Wooded

Drain field
Surfactant effluent

Swale

3.0'

B-1

B-3

Driveway

deep well

1000' Tank

Drain boxes

Garage

3 bdrm. House

Deck

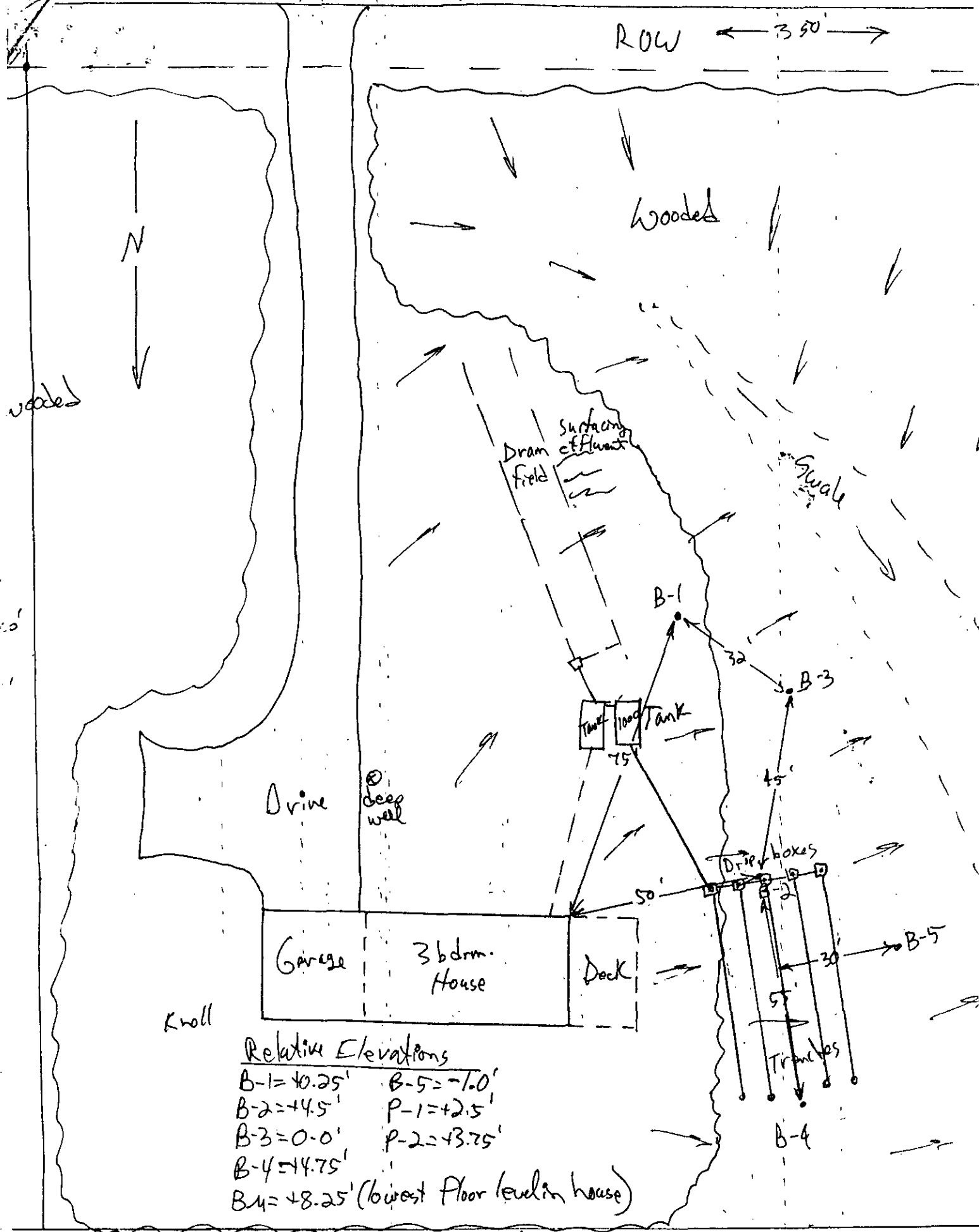
Knoll

Relative Elevations

- B-1 = +0.25'
- B-2 = +4.5'
- B-3 = 0.0'
- B-4 = +4.75'
- B-5 = -1.0'
- P-1 = +2.5'
- P-2 = +3.75'
- B-4 = +8.25' (lowest floor level in house)

prop. line →

scale
1" = 30'





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

Owner's Name	Steve Monson
Job Site Address	12620 181st Street N., Marine-on-St.Croix, MN.
City or Township	Lot 1, Hardwood Hills, Sec. 33, New Scandia Twp.
Use of Building	single family-residential

Design Flow Rate	450 gpd	Land Slope	15	Percent
Required Tank Sizes	1000 Gallons	and	1000*	Gallons
Type of System (standard, at grade or bed)	standard			
System Size:	750 -Square Feet	250	-Lineal Feet	36" -Trench Width
Depth of rock below pipe	12"		Depth of Rock Above Pipe	2"
MINimum Depth of Trench From Existing Grade	24	Inches	MAXimum Depth of Trench From Existing Grade	36 Inches
Recommended Number of Trenches	5		Recommended Length of Trenches	50'
Trench Spacing Measured Center to Center	6-8. Feet			
Any Other Special Conditions *check existing tank for size & integrity-replace if necessary. Install system between B-2, B-4, & B-5.				

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 <u>Christopher Zierke</u>	PCA Certification # <u>00998</u>
Address <u>27072 Flintwood Circle, Wyoming, MN. 55092</u>	Phone # <u>462-2294</u>
Signature	Date <u>6/19/97</u>

An Equal Employment Opportunity/Affirmative Action Employer

If You Need Assistance Due to Disability or Language Barrier, Please Call 430-6656 OR 430-6708 (TDD 439-3220)



SOIL REVIEW/SEPTIC PERMIT APPLICATION

RECEIVED

JUL 10 1997

HELM

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

\$150.00 by cash
\$70.00 by check

\$220 app +
FEE 220 permit fees
pay/stw

Receipt # 27807

Make checks payable to WASHINGTON COUNTY TREASURER

\$150 Application Fee (site review)

\$25 - Additional Review Fee (1 hour minimum)

\$100 base fee, plus \$50 per lot - Subdivision Fee

\$150 - New Drainfield System Permit Fee

\$70 - Replacement Drainfield System Permit Fee

\$250 - New Mound System Permit Fee

\$170 - Replacement Mound System Permit Fee

94-97073

Legal Description and Parcel Identification Number (especially if this is for a NEW SUBDIVISION OR MINOR SUBDIVISION)

Geo: 33-032-20-34-0010
Ct. 1, Blk. 1, Subj to easement Hardwood Hills

91280-2050

Applicant Becky Monson Rt. 2 Box 114 Pine City Mn. 55063 (320) 627-3149

Owner (if different from applicant) Mike Krick 12620 181st St. N. Marine St. Croix, Mn. 55047

New Home Existing Home New Business Existing Business Number Of Bedrooms: 3 Gallons Per Day:

Check the following fixture(s) which are or will be installed: Garbage Disposal NO Recreational Bathing Facility: (jacuzzi, hot tub, etc.) YES

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.

Becky Monson

Signature of Applicant (Owner or Builder)

7/10/97

Date

THE AREA BELOW IS FOR COUNTY USE ONLY

SITE EVALUATION: BY INSPECTOR AK Good DATE _____

Setbacks:	Required [circle appropriate item(s)]					16 MPI Design	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 2.30 acres (428x240) Year Built 1977

EXISTING HOME gravity silty sand side slope
some trees. EXISTING TANK good. System installed
in 1977.

mail white copy to owner - Mike Krick

fax permit to Roger Rydeen or take to site when inspecting
An Equal Employment Opportunity/Affirmative Action Employer

If You Need Assistance Due to Disability or Language Barrier, Please Call 430-6656 OR 430-6708 (TDD 439-3220)

Percolation Test data Sheet

Name Steve Monson Address 12620 181st St.N., Marine-on-St.Croix, MN.

Location Lot 1, Hardwood Hills, Sec. 33, New Scandia Twp., Wash. Co. Date 6/17/97

Method of scratching sidewall: 1x2 with nails. Depth of pea-sized gravel in bottom of hole: 2".

Date and hour of initial water filling 6/17/97 11:35am., filled with 12" of water above hole bottom.

Method used to maintain at least 12" of water sand test

8" maximum water depth above hole bottom during test. Readings by Chris Zierke, on date 6/17/97.

Percolation Test #1

Depth to bottom of hole 12 inches

Diameter of hole 6 inches

Soil data from test hole:

Depth, inches	Soil Texture
<u>0-12"</u>	<u>Loamy fine sand</u>

Time, minutes	Time Interval	Measurement, inches	Drop, inches	Perc Rate, (min./inch)
11:55		7 1/2"		
12:01	6	2 3/8"	5 1/8	1.17
12:02		7 1/4"		
12:08	6	2 5/8"	4 5/8	1.30
12:09		7 3/8"		
12:15	6	2 5/8"	4 3/4	1.26

Percolation Rate = 1.3 minutes per inch.

Percolation Test #2

Depth to bottom of hole 24 inches

Diameter of hole 6 inches

Soil data from test hole:

Depth, inches	Soil Texture
<u>0-24"</u>	<u>Loamy fine sand</u>

Time, minutes	Time Interval	Measurement, inches	Drop, inches	Perc Rate, (min./inch)
11:57		7 3/4"		
12:03	6	3 1/2"	4 1/4	1.41
12:04		8"		
12:10	6	3 7/8"	4 1/8	1.45
12:11		7 5/8"		
12:17	6	3 5/8"	4	1.50

Percolation Rate = 1.5 minutes per inch.

Logs of Soil Borings

Location of Project Steve Monson prrpp., Lot 1, Hardwood Hills, Sec. 33, New Scandia Twp.

Borings made by Chris Zierke

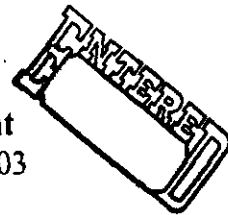
Date 6/17/97

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

Depth, in feet	Boring Number 1	Depth, in feet	Boring Number 2
0 6"	Dark y-brown loamy fine sand(10YR-4/4)	0 6"	Dark-brown loamy fine sand(10YR-3/3)
1		1 18"	Dark y-brown loamy fine sand(4/4)
2	Yellowish-brown loamy fine sand (10YR-5/4)	2	
3		3	Yellowish-brown fine sand(5/4)
4 50"	Dark yellowish-brown sandy loam (10YR-4/6), iron-stains & light-gray mottles	4	
5		5	
6		6 76"	
7		7	Dark y-brown sandy loam, iron-st., light-gray mottles
8		8	
End of boring at <u>5</u> feet.		End of boring at <u>7</u> feet.	
Standing water table: Present at <u> </u> feet of depth, <u> </u> hours after boring.		Standing water table: Present at <u> </u> feet of depth, <u> </u> hours after boring.	
Standing water not present in hole <u>X</u> .		Standing water not present in hole <u>X</u> .	
Mottled Soil: Observed at <u>50"</u> feet of depth.		Mottled Soil: Observed at <u>76"</u> feet of depth.	
Mottled soil not present in bore hole <u> </u>		Mottled soil not present in bore hole <u> </u>	
Comments:		Comments:	
Depth, in feet	Boring Number 3	Depth, in feet	Boring Number 4
0 6"	Dark-brown loamy fine sand	0 6"	Dark-brown loamy fine sand
1 18"	Dark y-brown loamy fine sand	1	Dark y-brown loamy fine sand
2 30"	Yellowish-brown loamy fine sand	2	
3 38"	Brown loamy fine sand(10YR-5/3)	3	
4 44"	Brown sandy loam(10YR-5/3)	4	Yellowish-brown loamy fine sand, thin layers of dark y-brown sandy loam common below 36", faint iron- stains below 78"
5	Yellowish-brown loamy fine sand(5/4) iron-st. & light-gray mottles below 48"	5	
6		6	
7		7	
8		8	
End of boring at <u>5</u> feet.		End of boring at <u>7</u> feet.	
Standing water table: Present at <u> </u> feet of depth, <u> </u> hours after boring.		Standing water table: Present at <u> </u> feet of depth, <u> </u> hours after boring.	
Standing water not present in hole <u>X</u> .		Standing water not present in hole <u>X</u> .	
Mottled Soil: Observed at <u>4</u> feet of depth.		Mottled Soil: Observed at <u>6 1/2</u> feet of depth.	
Mottled soil not present in bore hole <u> </u>		Mottled soil not present in bore hole <u> </u>	
Comments:		Comments: B-5 had a similar profile, mottled below 50".	



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

Legal Description or Complete Street Address		City or Township		
Owner Name	Mail Address	City	State	Zip
Becky Manson	12620 181 ST N	Marine	MA	55047
Installer	Mail Address	City	State	Zip
Scandia Trucking & Exc.	18901 Oak Green Av N	Marine	MA	55047
Septic Tank Information		Liquid Capacity:		
Tank Manufacturer: Gilbertson		old Tank 1200 New Tank 1000		

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

DRAINFIELD TRENCH		BED OR MOUND		
Width:	Length of Each Trench:	Rock Bed Length:	Width:	Area:
3'	50'			
Depth of Trench Bottom from Finished Grade:		Bed Depth from Grade:		
24"-36"				
Method of Distribution:		MOUND:		
<input type="checkbox"/> Pressure <input type="checkbox"/> Distribution Box <input checked="" type="checkbox"/> Drop Box		Upslope Sand Base Depth: Downslope Sand Base Depth:		
Depth of Rock Under Distribution Pipe:		Depth of Rock Under Pipe:		
12"				
Square Footage of Tested Area Used:		PRESSURE DISTRIBUTION SYSTEM:		
Trench Bottom Square Footage Required:	Area As Built:	Lateral Inside Diameter:	Length:	Perforation Size:
750	750			
		Spacing:	Number:	Perforation Spacing:

Complete site plan on attached sheet. On the site plan, include location of the following items.

Structures, 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

I hereby certify that the system at the above referenced address was installed according to the Washington County Individual Sewage Treatment System Ordinance requirements.

Signed: [Signature] MPCA License #: 1296 Dated: _____

ASBUILT.FRM:DC 2/97

WASHINGTON COUNTY SEPTIC PERMIT NUMBER 94-97073

AN EQUAL EMPLOYMENT OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER
IF YOU NEED ASSISTANCE DUE TO DISABILITY OR LANGUAGE BARRIER, PLEASE CALL 430-6708 (TDD 439-3220).

