



WASHINGTON COUNTY, MINNESOTA
Department of Public Health

NEW SCANDIA TOWNSHIP
 SEWAGE PERMIT

PERMIT NUMBER **9400017**

Owner **TIMOTHY HICKIE**
 5498 EAST BALD EAGLE BOULEVARD
 WHITE BEAR LAKE MN 55316

SEWAGE TREATMENT SYSTEM PERMIT	75.00
BUILDING PERMIT FEE	594.50
BUILDING PERMIT PLAN CHECKING	297.25
BUILDING PERMIT ST. SURCHARGE	44.75
Total Fees :	1011.50
Total Paid :	.00
Total Due :	1011.50

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 : 19690 PAREVIEW LANE N. MARINE ON ST CROIX MN 55047

Flow Capacity 750

Soil Conditions: Depth to restriction 60 inches Perc Rate 14 in/inch

Soil Treatment Area Type:

In Ground In Fill Bed Drain Field

Authorized Work / Special Conditions

Install individual sewage treatment system as per approved design in area tested and shown on site plan.

94-17

* Permit Expiration Date : Sewage Treatment 3/20/90

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 90 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 2/16/90

Code Enforcement Officer

[Signature] for the County

FILE

INSPECTION RECORD

BUILDING	DATE	INSP.	COMMENTS
Foundation			
Foundation Wall			
Plumbing (Groundwork)			
Gas Piping (Groundwork)			
Rough Plumbing			
Rough Gas Piping			
Rough Heating and Ventilation			
Framing			
Insulation			
Fireplace			
Wallboard or Lath and Plaster			
Final Building			
Final Plumbing			
Final Gas Piping			
Final Heating and Ventilation			

SEWAGE TREATMENT SYSTEM	DATE	INSP.	COMMENTS
Installation	6-6-90	Pass	Tank Size: _____ Treatment Area: _____
As Built			Installer: <i>Bill Wolff</i>

WELL	DATE	INSP.	COMMENTS
Installation			

Pre-Grout Nitrate Sample: _____ Owner Receptance: _____

Well Record Received: _____ Sample Results Received: _____

NOTES:

Approx. Scale: 1" = 84'

SUBMIT TO ORIGINAL
GE COUNTY BUILDING OFFICIAL

1990

NORTH LINE

$N 89^{\circ} 56' 30'' E$

Lot 4 Block 2
"MERRIHILLS"
(New Scandia Twnshp)

X

615.00

PERMIT # 94-17
CONDITIONALLY APPROVED

Pines P. Council 3-16-90

WASH. CO.
OWNER COPY

Proposed
Drainfield
(Potential Layout)

4 B-1

50' well

Proposed
House-Car

$\Delta = 228$
 $R = 967.00$
 $A = 371.30$

221.01

$N 58^{\circ} 0' E$

221.01

8.79

$80^{\circ} E$

A

N

E

$A = 396.64$
 $R = 1033.00$
 $\Delta = 228$

8

S

RECEIVED MAR 9 1990

SUBMITTED TO APPROVAL
OF COUNTY BOARDING OFFICIAL

INDIVIDUAL SEWAGE TREATMENT SYSTEM MINIMUM SPECIFICATIONS SHEET

NAME: Timothy Jay McKie 5498 E. Bald Eagle Blvd., White Bear Lake, MN 55110

ADDRESS AND/OR LEGAL DESCRIPTION: Lot 4 Block 2 "MERRIHILLS"
Pt. of E $\frac{1}{2}$ Sec. 25, T32N R20W (New Scandia)

Type I, 4 Bedroom Home, No Garbage Disposal, 1 Hot Tub

WASTEWATER FLOW

Estimated 750 gal/day, or
Measured _____ gal/day

Spacing of trenches 7 $\frac{1}{2}$ ft oc

Distribution (check one):

drop box

pressurized laterals - complete

PRESSURE DISTRIBUTION SYSTEM section below

SEPTIC TANK

Volume 1500 gal

BED

Minimum depth of bed _____ inch

Maximum depth of bed _____ inch

Bottom area for bed having 12 inch

of rock below the distribution pipe

_____ sq ft

Bed Width _____ ft

Bed Length _____ ft

LIFT STATION (Gravity as per owner's contractor)

Volume _____ gal

Pump:

delivery rate _____ gal/min

total head _____ ft

discharge per pumping event _____ gal

Inside diameter of pressure line from pump

to treatment area _____ inches

MOUND

Bottom area for bed having 9 inch of rock

below the distribution pipe _____ sq ft

Bed Width _____ ft

Bed Length _____ ft

Upslope sand base depth _____ ft

Upslope dike width _____ ft

Downslope sand base depth _____ ft

Downslope dike width _____ ft

SOIL

Depth to restricting layer 5'

Percolation rate:

_____ min/in at 12 inch depth

43.6 min/in at 24 inch depth

_____ min/in at _____ inch depth

Land Slope 4-10 (E-N $\frac{3}{4}$)

DRAINFIELD TRENCHES

Minimum depth of trench 12 inch

Maximum depth of trench 24 inch

Bottom area for trenches having 12

inch of rock below the distribution pipe

1500 sq ft

Trench width 3 ft

Total trench length 500 ft

Number of trenches 5 perforated lines

@ 100' installed

on the contour

PRESSURE DISTRIBUTION SYSTEM

Inside diameter of manifold pipe _____ in

Perforated lateral

inside diameter _____ in

length _____ ft

number _____

spacing _____ in oc

Perforation:

diameter _____ in

spacing _____ in oc

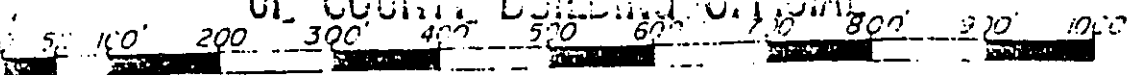
LAYOUT (Site Plan)

1. Use an appropriate scale and indicate direction by use of a north arrow.
2. Show pertinent property boundaries, rights-of-way, easements, etc.
3. Show location of house, garage, driveway and all other improvements existing or proposed.
4. Show location and layout of sewage treatment system including tanks, trenches, etc.
5. Show location of water supply well.

Specifications and layout have been designed by RS Johnson Date 1/90

Minnesota Pollution Control Agency Certification No. 709 Exp. Date 12/31/91

OF COUNTY BUILDING OFFICIAL

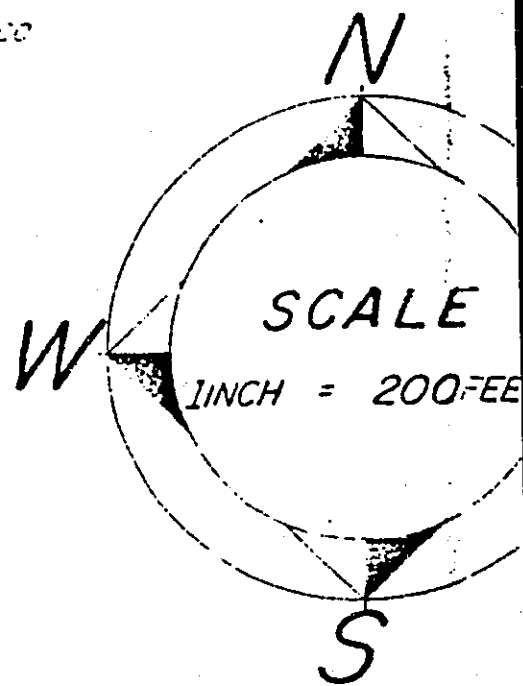


ALL BEARINGS ARE ASSUMED

Approx. Scale: 1" = 200'

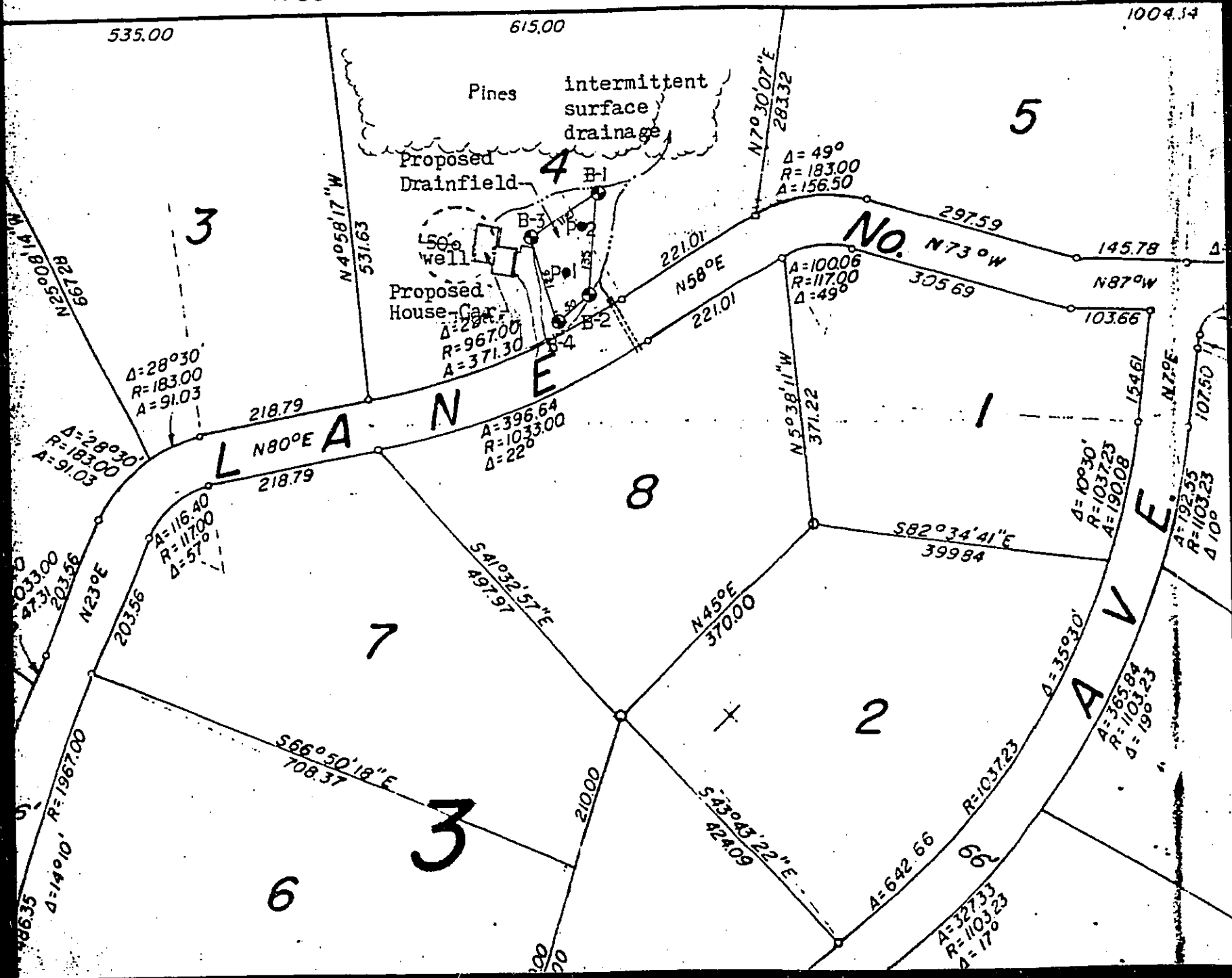
- Approx. Location of Auger Boring
- Approx. Location of Percolation Test

Note - Existing surface drainage along roadway and from culvert passing under roadway should be diverted around the southeasterly corner and lower edge of proposed drainfield.



NORTH LINE OF THE 1/2 - N.E. 1/4
2589.73

N89°56'30"E



RECEIVED MAR 9 1990

APPLICATION FOR PERMIT TO INSTALL SEWAGE TREATMENT SYSTEM

94-17

Application Fee - \$75.00 _____
 Permit Fee - \$75.00 _____
 Additional Reviews - \$25.00/hr. (1 hr. min.)

19690

Washington County Planning Department
 14900 - 61st Street North, P. O. Box 6
 Stillwater, MN 55082 (612) 779-5444

1	Legal Description and Parcel Identification Number				
	LOT 4 Block 2 "Merrill Hills" PT of E 1/2 Sec. 25, T32N R20W (Scandia) ⁹¹⁴⁷⁰⁻²⁷⁵⁰ ^{New}				
2	Applicant	Mailing Address	City	Zip	Phone
	Timothy Jay McKie	5498 E. Bald Eagle Blvd. W.B.L.	MN.	55110	427-8613
3	Owner (if different from Applicant)	Mailing Address	City	Zip	Phone
	Same as above				
4	Use of Building: <u>Home</u> Number of Bedrooms or Gallons Per Day <u>3 Bd. 750 gal</u> Check the following fixtures which are or will be installed: Garbage Disposal <u>no</u> Recreational Bathing Facility (Jacuzzi, hot tub, etc.) <u>no</u>				
5	Type of Work: <input checked="" type="checkbox"/> New <input type="checkbox"/> Alteration <input type="checkbox"/> Repair <input type="checkbox"/> Approval Only				
6	Has site previously been reviewed by Washington County? <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes		
	(If previously approved, attach letter of approval)		<input type="checkbox"/> Approved <input type="checkbox"/> Denied		

The following exhibits are required as part of this application and shall be attached hereto: Percolation Test Logs; 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; 2 Copies of the System Design; and 1 copy of the Final Building Plan. The house and the drainfield areas must be staked. Improper or inadequate test or 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.

2/12/90 Date Timothy J. McKie Signature of Applicant

FOR OFFICE USE ONLY:

Reviews: Planner: _____ Inspector: _____ Date: _____

Site Evaluation:

Soil Boring Evaluation: Depth of Water Table, Seasonal Water Table (Mottled Soil), Impervious Layer or Bedrock:

Soils Map Data: _____	Percolation Test Evaluation: _____					
Setbacks:	Required (circle)					Actual
Well (including adjacent property)	50'	75'	100'	150'		
Wetland, Pond, Lake, Stream, River, or Bluffline	20'	40'	75'	100'	150'	

Conclusions:

Site Suitable: Site Unsuitable: Additional Tests Required: Verify Use: ⁵

NOTES:

Building Permit Has Been Applied For



*Wash
Co.
File copy*

WASHINGTON COUNTY

PLANNING DEPARTMENT
GOVERNMENT CENTER

14900 - 61st Street North, P.O. Box 6 - Stillwater, Minnesota 55082
612/779-5443

NS-25-89
91470-2750

December 5, 1989

Timothy Jay McKie
5498 Bald Eagele Blvd.
White Bear Lake, MN 55110

Dear Mr. McKie:

Results of the soil test submitted for the site described as Lot 4, Block 2, Merrihills Addition, in Section 25, T23N, R20W, New Scandia Township have been reviewed.

The soil tester's demonstration of site suitability for installation of an individual sewage treatment system is in concurrence with present codes. The area found to be suitable is an irregular 10,000 square foot area 250' east of the west property line and 20' north of the south property line. Maximum trench depth shall be 24".

This assessment of suitability applies to the soil in the tested area only and does not guarantee that the lot complies with applicable zoning requirements.

A sewage treatment system permit may be issued when we receive permit application, two copies of the system design and final site plan, and a copy of the final building plan.

Sincerely,

A handwritten signature in cursive script, appearing to read "Peter R. Ganzel".

Peter R. Ganzel
Code Enforcement Officer

PRG/sfw

SUBJECT TO APPROVAL
OF COUNTY BUILDING OFFICIAL
APPLICATION FOR PERMIT TO INSTALL SEWAGE TREATMENT SYSTEM

Application Fee - \$75.00 PAID
 Permit Fee - \$75.00
 Additional Reviews - \$25.00/hr. (1 hr. min.)

Washington County Planning Dept.
 14900 - 61st Street North
 Stillwater, MN 55082

1	Legal Description and Parcel Identification Number Lot 4 Block 2 "MERRIHILLS", Pt. of E $\frac{1}{2}$ of Sec. 25, T32N R20W (New Scandia Twnshp)	91470-2750
2	Applicant Mailing Address City Zip Phone Timothy Jay McKie 2576 8th Street White Bear Lake 55110 429-8613 <u>5148 BALD EAGLE BLVD</u>	
3	Owner (if different from Applicant) Mailing Address City Zip Phone SEM A. + NANCY L. EIK	
4	Use of Building: Single Family Residence Number of Bedrooms or Gallons Per Day <u>4</u> Check the following fixtures which are or will be installed: Garbage Disposal <u>No</u> Recreational Bathing Facility (Jacuzzi, hot tub, etc.) <u>1</u>	
5	Type of Work: <u> </u> New <u> </u> Alteration <u> </u> Repair <u> X </u> Approval Only	
6	Has site previously been reviewed by Washington County? <u> </u> No <u> </u> Yes (If previously approved, attach letter of approval) <u> </u> Approved <u> </u> Denied	

The following exhibits are required as part of this application and shall be attached hereto: Percolation Test Logs; 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; 2 Copies of the System Design; and 1 copy of the Final Building Plan. The house and the drainfield areas must be staked. Improper or inadequate test or information will result in delays in processing.

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11/16/89
Date

Timothy Jay McKie
Signature of Applicant

FOR OFFICE USE ONLY:

Reviews: Planner: _____ Inspector P. Lamm Date: 12/14/89

Site Evaluation:

Soil-Boring Evaluation: Depth of Water Table, Seasonal Water Table (Mottled Soil), Impervious Layer or Bedrock:
apparent mottling @ 5' - 24" trench depth - slow pour water

Soils Map Data: _____ Percolation Test Evaluation: 43 MP1 OK @ 24

Setbacks:	Required (circle)					Actual
	50'	75'	100'	150'	150'	
Well (including adjacent property)	50'	75'	100'	150'	150'	OK
Wetland, Pond, Lake, Stream, River, or Bluffline	20'	40'	75'	100'	150'	

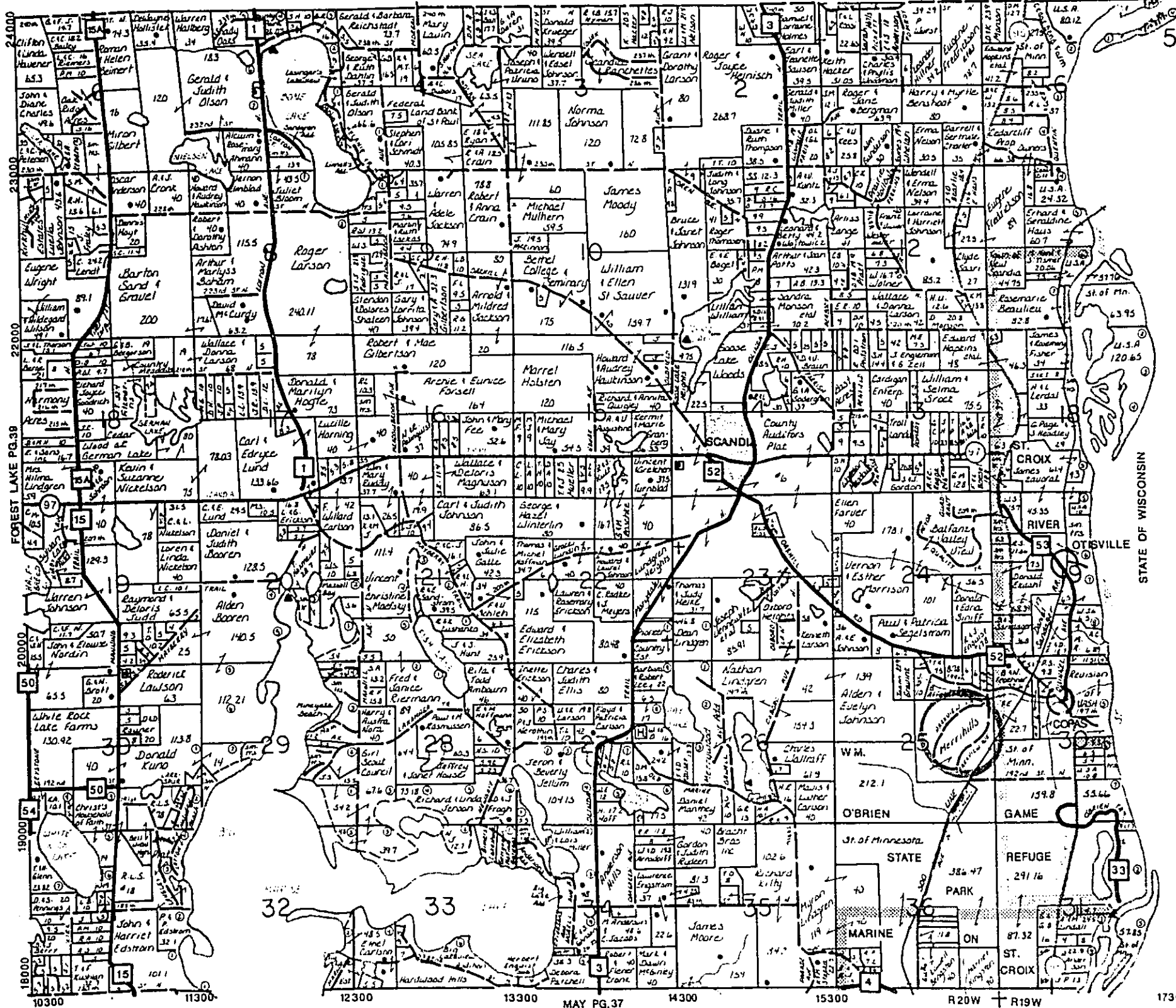
Conclusions:

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

NOTES:

UN-FORM BROWN SILT LOAM CHANGING TO Reddish loamy sand
at about 4'
OPEN AREA 4-6% slope dig boxes
MAY TRENCH DEPTH 24"

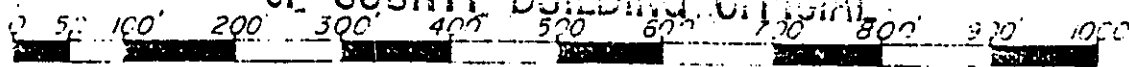
CHISAGO COUNTY



NEW SCANDIA

T.32N. - R.20-19W.

SUBJECT TO APPROVAL
OF COUNTY BUILDING OFFICIAL

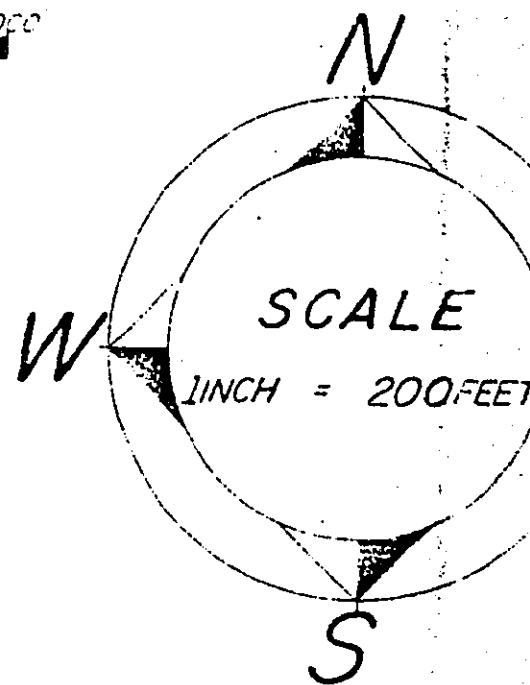


ALL BEARINGS ARE ASSUMED

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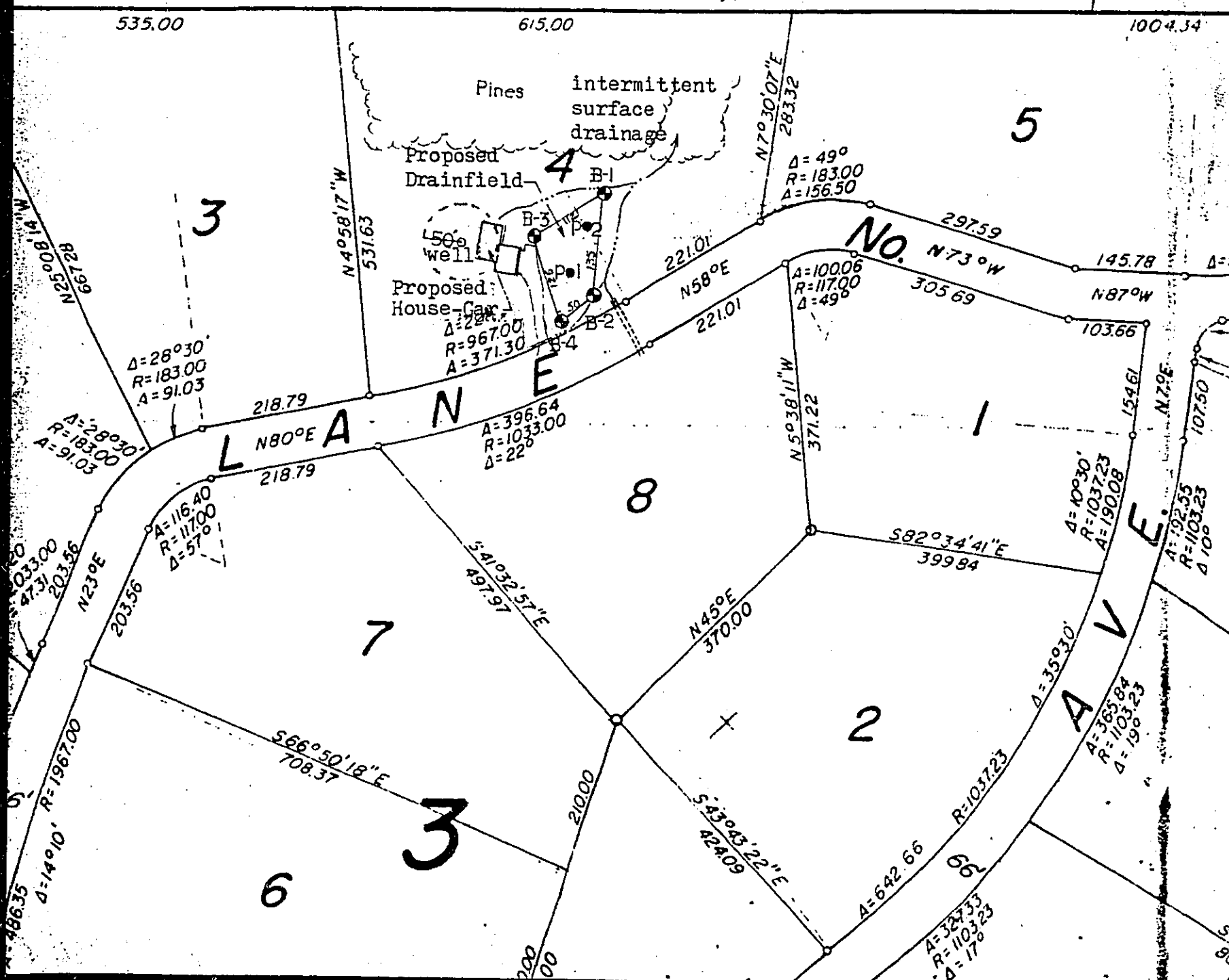
- Approx. Location of Auger Boring
- Approx. Location of Percolation Test

Note - Existing surface drainage along roadway and from culvert passing under roadway should be diverted around the southeasterly corner and lower edge of proposed drainfield.



N89°56'30"E

NORTH LINE OF THE 1/2 - N.E. 1/4
2589.73



SUBJECT TO APPROVAL
OF COUNTY BOARD OF SUPERVISORS
-SOIL BORINGS-

Lot 4 Block 2

"MERRIHILLS"

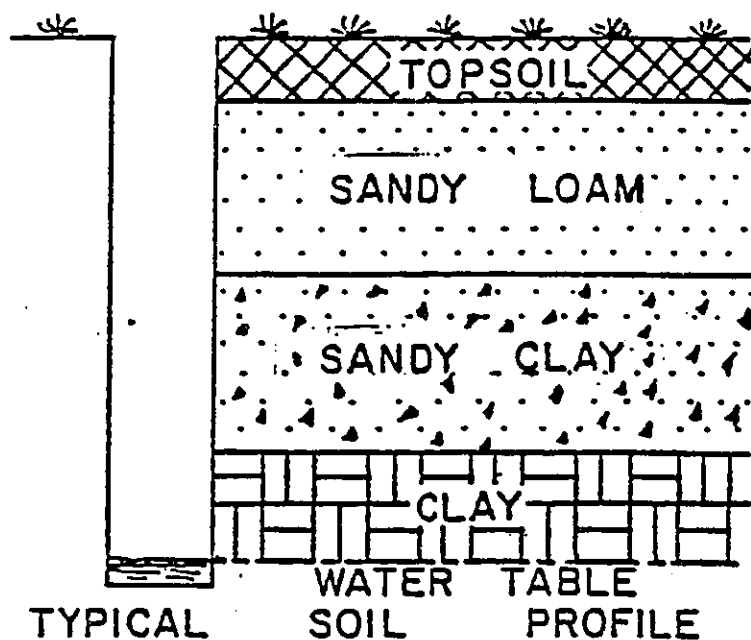
Pt. of E $\frac{1}{2}$ of Sec. 25, T32N R20W
(New Scandia Twnshp)

Soil borings are made in order to determine the type and structure of soils at various depths as well as the location of the water table, impervious strata or bedrock.

Borings are most easily made with a hand auger, however other expedients may be utilized - back hoe, post hole auger, etc.

Soils encountered at various depths should be listed as to appearance, texture and composition.

Depth at which water, bedrock or heavy clay layer is encountered should be recorded.



Auger Borings: R&J Johnson 11/21/89

LOG OF SOIL BORINGS

BORING NO. 1		BORING NO. 2		BORING NO. 3		BORING NO. 4	
DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION
0	Grayish Brown <small>Very Dark</small> VF Sandy Loam	0	Grayish Brown <small>Very Dark</small> Fn Sandy Loam	0	Grayish Brown <small>Very Dark</small> VF Sandy Loam	0	Grayish Brown Loamy Sand
1/2		1/2		1/2	Brown Silt Loam	1/2	Brown
1	Grayish Brown VF Sandy Loam	1	Grayish Brown Fn Sandy Loam	1		1	
1 1/2		1 1/2		1 1/2	Dark Brown	1 1/2	
2	Dark Brown	2	Brown	2		2	Gravelly
2 1/2		2 1/2		2 1/2	Silt Loam	2 1/2	Loamy Sand
3	Sandy Loam	3	Silt Loam	3		3	
3 1/2		3 1/2	Reddish Brown	3 1/2	Reddish brown	3 1/2	Reddish Brown
4	Reddish Brown	4	Sandy Loam- Loamy Sand	4	Sandy Loam	4	
4 1/2		4 1/2		4 1/2	Till	4 1/2	Sandy Loam
5	Sandy Loam	5	(End)	5	(End)	5	Till
5 1/2	Till	5 1/2	Mottling Depth: 60"	5 1/2		5 1/2	
6	(End)	6		6		6	(End)
6 1/2		6 1/2		6 1/2		6 1/2	
7		7		7		7	
7 1/2		7 1/2		7 1/2		7 1/2	
8		8		8		8	
8 1/2		8 1/2		8 1/2		8 1/2	
9		9		9		9	

SUBJECT TO APPROVAL
OF COUNTY BUILDING OFFICIAL

L-1A

PERCOLATION TEST DATA SHEET

Test hole location Lot 4 Block 2 "MERRILL'S"
7th. of E. 1/2 Sec. 25. T-30N R-20W Hole number P-1
 Date test hole was prepared 11/21/89, Depth of hole bottom, 24 inches.
 Diameter of hole, 6 inches.
 Soil data from test hole:

Depth, inches	Soil texture
<u>0-24</u>	<u>Silt loam</u>

Method of scratching sidewall: 4 Auger
 Depth of pea-sized gravel in bottom of hole, 0 inches.
 Date and hour of initial water filling 11/21/89
 Depth of initial water filling, 10 inches above hole bottom.
 Method used to maintain at least 12 inches of water depth in hole for at least
 4 hours CONSTANT MONITORING
 Percolation test readings made by Richard Johnson on
11/21/89 starting at 11:00 A.M. Maximum water depth above gravel
 (date) during test, 6 inches.

Time	Time Interval, Minutes	Measurement, inches	Drop in water level, inches	Remarks
11:00		6		
11:30	30	3 1/16	2 1/16	
11:30		6		
10:00		4 1/16	1 1/16	
10:00		6		
10:30		4 10/16	1 4/16	
10:30		6		
1:00		5 0/16	1 0/16	
1:00		6		
1:30		5 5/16	0 1/16	0 1/16" @ 13.6 MAI

SUBJECT TO APPROVAL
OF COUNTY BOARDING OFFICIAL

L-14

PERCOLATION TEST DATA SHEET

Test hole location Lot 4 Block 2 "Meadow Hills"
Pt. of E 1/2 Sec. 05, T 30N R 20W Hole number P-2
 Date test hole was prepared 11/21/89, Depth of hole bottom, 24 inches.
 Diameter of hole, 6 inches.

Soil data from test hole:

Depth, inches	Soil texture
<u>0-24</u>	<u>SILT LOAM</u>

Method of scratching sidewall: 4 Points

Depth of pea-sized gravel in bottom of hole, 0 inches.

Date and hour of initial water filling 11/21/89

Depth of initial water filling, 10 inches above hole bottom.

Method used to maintain at least 12 inches of water depth in hole for at least 4 hours CONSTANT MONITORING

Percolation test readings made by R. C. THORNDYKE on

11/21/89 starting at 11:01 A.M. Maximum water depth above gravel during test, 6 inches.

Time	Time Interval, Minutes	Measurement, inches	Drop in water level, inches	Remarks
11:01		6		
11:31	30	3 0/16	2 6/16	
11:31		6		
12:01		4 0/16	2 0/16	
12:01		6		
12:31		4 3/16	1 3/16	
12:31		6		
1:01		4 14/16	1 0/16	
1:01		6		
1:31		5 4/16	0 12/16	0 10/16" L.A.P. = 10.0 MA

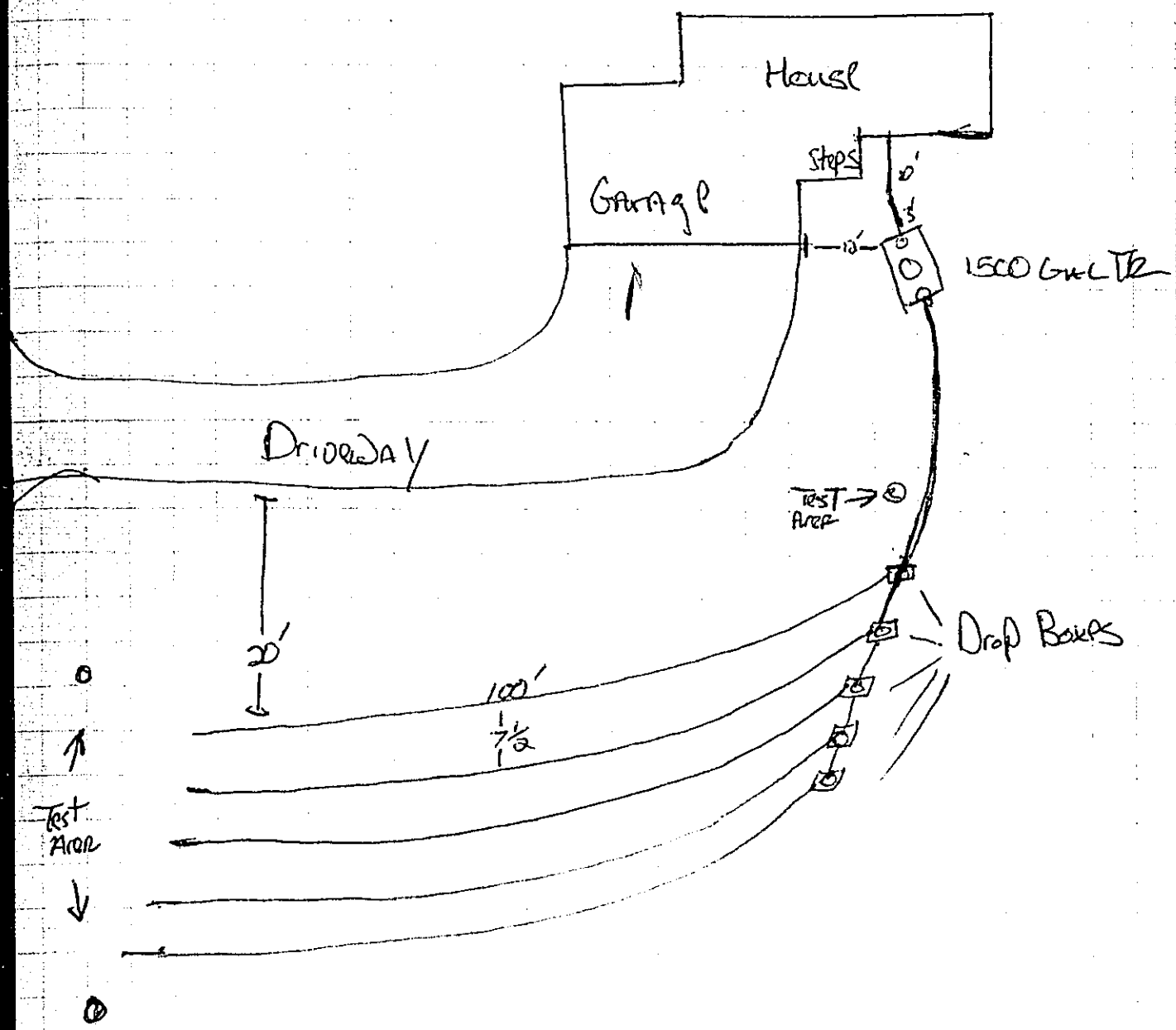
94

As Built Individual Sewage Treatment System Report

Washington County Planning Department
 14900 - 61st Street North
 Stillwater, MN - 55082

1	Legal Description (NEW SEAGUIN) Timothy McNeil/lot 4 Block 2 Merrit Hills Pt of E 1/2 Sec 25 T32N R20W Owner Mail Address City State Zip
2	Timothy McNeil Installer Mail Address City State Zip
3	Bill Walter Exc. 15567 Jeffrey Av. N Hugo MN 55038 Mail Address City State Zip
4	Septic Tank Manufacturer: A-1 Concrete; Liquid Capacity: 1500 GAL
5	Pump Chamber (if installed) Manufacturer of Tank: -NA-; Liquid Capacity: _____ Horse Power of Pump: _____; Pump Discharge in Gallons Per Minute: _____ at _____ feet of Head; Type of Warning Device: _____; Number of Gallons Pumped Per Cycle: _____
6	Drainfield Trench Width: 3'; Length of Each Trench: 5 @ 100'; Method of Distribution: Drop Boxes; Depth of Trench Bottom from Finish Grade: 12 to 24"; Depth of Rock Under Distribution Pipe: 12"; Area Required: 33' x 100' @ 7 1/2' spacing Area as Built: 33' x 100'
7	Complete site plan on attached sheet. On site plan include location of: structures, septic tank, pump chamber, line from house to tank, line from 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 on the site plan north and the scale of the site plan.
8	Septic Permit No. 94-17

Well



Installed By Bill Wolfe Excavating
430-2256

Test Area