Lincoln-Lancaster County Health Department
ENVIRONMENTAL PUBLIC HEALTH DIVISION

006658

3140 N STREET · LINCOLN, NE 68510-1514

(402) 441-8000

Permit: SEWAGE INSTALLATION
SEPTIC SYSTEM

Permit # 05380300101

Issued 04/15/05
Expires 04/15/06
Revenue Code 3157

Establishment:
MARK JOHNSON
T7N R7E SEC 4 QTR NW
LOT 43IT
20820 S 54 ST-HICKMAN

FEES: $200.00

Permittee:
MARK JOHNSON
BOX 45
PANAMA NE 68419-0045

TOTAL: $200.00

Bruce D. Dart

Bruce D. Dart, Health Director

EPH COPY

Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

Hickman Jurisdiction

A

Permit Number: 05380300101

Sewage Disposal System

Request for Site Clearance and Permit

Include Form B, Form C and Applicable Fees with this Application.

☒ Septic System ☐ Lagoon ☐ Other (Refer to Form C)

The undersigned hereby requests site clearance and permit to construct a Sewage Disposal System in conformance with appropriate resolution or ordinance, as described herein:

PLEASE PRINT OR TYPE

A. System Location (Indicate correct number and street)

Address 20820 S. 54th St. (no rural route) City Hickman NE, Zip 68372-9416

Legal Description North West 4 7 North 7 East 43 I.T.
1/4 1/4 Section Township Range Subdivision Addition Block Lot

Geographical Location (if known): Longitude _____ Latitude _____

☐ Check if system mail address is not the same as the owner's address Owner will live at system address when system construction Complete

B. Owner

Name Mark Johnson Signature Mark Johnson

Address P.O. Box ~~57~~ 45 City/State/Zip ~~Panama~~ Panama, NE 68419-0045

☐ Check if owner designed system Home Phone 402-788-2777 Work Phone 402-467-0654

C. Contractor Brad Southwick

Name ~~Southwick Sewer + Drain~~ Company Name Southwick Sewer + Drain

Address 17201 S. 72nd City/State/Zip Hickman, NE 68372

☒ Check if contractor designed system Work Phone 402-792-2462

D. Engineer/Installer ☐ Check and complete if engineer designed system

Designer Name _____ Firm _____ Work Phone _____

E. This System Will Serve a

☒ Residential Dwelling Number of Bedrooms 3 Is there a Whirlpool Bathtub YES (NO)

☐ Commercial Establishment/Other Facility Specify _____

Design flow in gallons per day _____ Type of Wastewater: ☒ Domestic ☐ Non-Domestic.

DO NOT WRITE BELOW THIS LINE

Approval Process ☐ Municipal Code 24.38 ☒ County Resolution No. 2832

1. **Health Department** Date rec'd 4/15/05 Date frwd _____ ACTION ☒ Approved ☐ Disapproved Signature Gerald C. Hood
2. **Supt. Bldg. Insp. or Village Clerk** Date rec'd 4-19-05 Date frwd 4-19-05 ACTION ☒ Approved ☐ Disapproved Signature Larry Votta
3. **City or County Engineer** Date rec'd 4/18/05 Date frwd 4/18/05 ACTION ☒ Approved ☐ Disapproved Signature By Engineer

Installation Final Written Approval

By Gerald C. Hood R.E.H.S.

Date MAY 20, 2005

Business Office Use Only

Date Rec'd 4-15-05

Amt Paid $200.00

Rec'd By CW Cash/Check No. 1079

FORM 23-100 10-96 White - Health Dept. Yellow - Engineer Pink - Bldg. Inspector

Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

B

Permit Number: 05380300101

Sewage Disposal System

Soil Absorption Test Data Report

Annex to Application

PLEASE PRINT OR TYPE

System Location (Indicate correct number and street)

Address 20820 S. ~~58th~~ 54th St. (no rural route) City Hickman, NE, Zip 68372

Owner Mark Johnson Addresss P.O. Box 45, Panama, NE 68419

Soil Type (SCS): UsTC / SHC Percolation Rate: _____ min./inch

Date of Tests 3/10 to 3/11 Weather: Precipitation _____ Temperature 40s

3/17 3/18

Percolation Test Data Table

A.	B.	C. D. E. F. Pre-Saturation Period				G. H. I. J. K. Percolation Readings					L. M. N. Results		
		Start		End		Start			End				
Hole No.	Hole Depth (in)	Date (Mo/Da)	Time (Hr/Min)	Date (Mo/Da)	Time (Hr/Min)	Date (Mo/Da)	Time (Hr/Min)	Water Lev (in.)	Date (Mo/Da)	Time (Hr/Min)	Elapsed Time (Min)	Water Level Drop (in)	Percolation Rates (Min/in)
1	32	3/10	10:00 A	3/11	12:30 P	3/11	1:50 P	17	3/11	2:20 P	30	5/8	48
2			"				"	19				5/8	48
3								11				5/8	48
4			↓				↓	17		↓		1	30
5		3/17	9:00 A	3/18	7:30 P	3/18	8:45 P	13	3/18	9:15 P		3/4	40
6		↓	↓				↓	14½		↓		1	30
7	↓							20¼				5/8	48

Sum of Percolation Rates: 292

Average of Rates: 42

Rate Used for Calculation: 50

Person Conducting Percolation Tests

Name: _____

Phone: _____

Address _____

DO NOT WRITE BELOW THIS LINE

Reviewing Action

Remarks _____

Signature of Reviewing Official Jerrold C. Hood R.E.H.S. Date APRIL 15, 2005

FORM 23-101 10-96

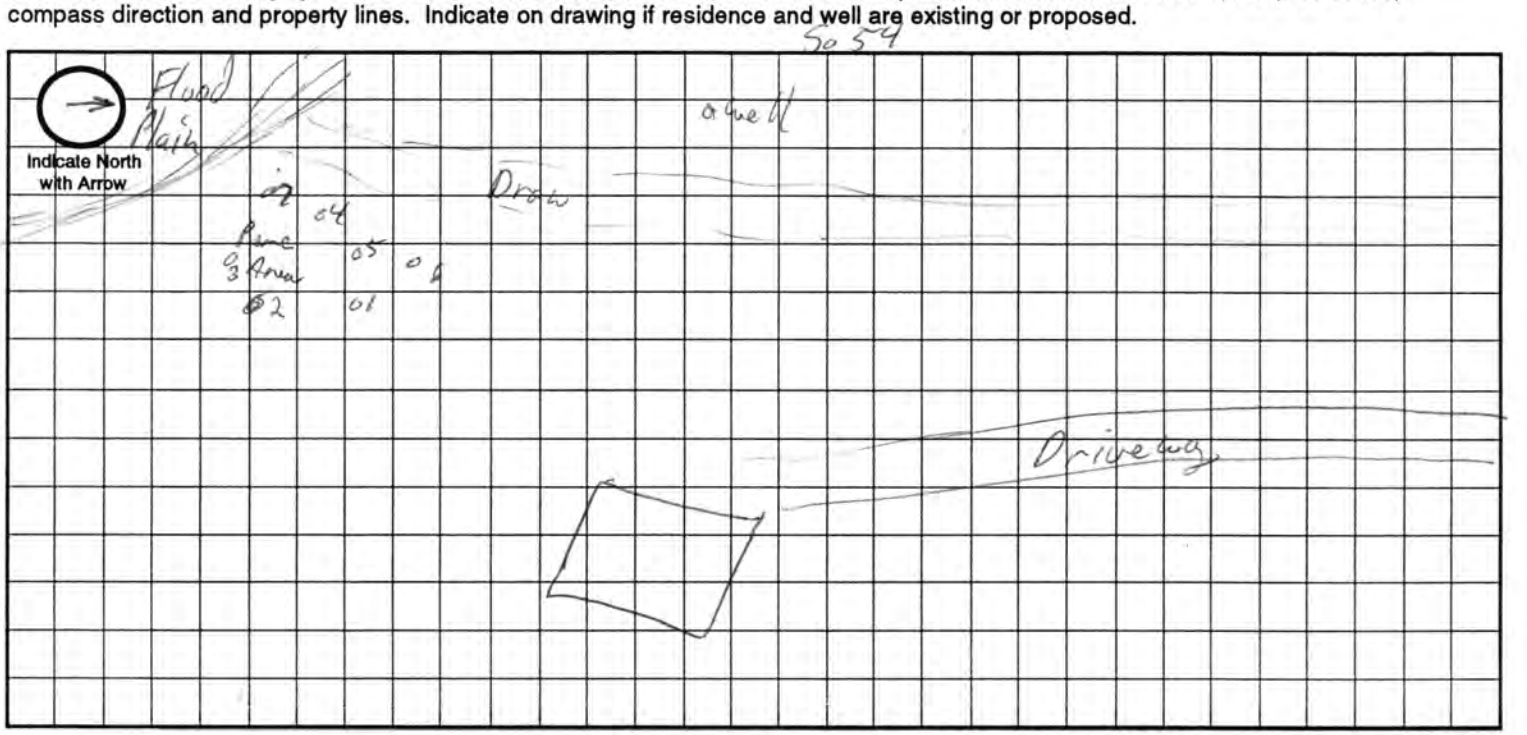
Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

C

Permit Number: 053803001 01

Sewage Disposal System
Preliminary Plan Specifications

Draw a plot plan showing system location, lines, distribution box, tank and laterals, percolation test hole locations, well, residence, compass direction and property lines. Indicate on drawing if residence and well are existing or proposed.



Approximate Scale: _____ ft. = _____ grid line/s

A. System Location (Indicate correct number and street)

Address (no rural route) 20820 S. 54th St. City Hickman NE, Zip 68372

B. Proposed Septic Tank/s

Tank Material: ☐ Concrete ☒ Plastic ☐ Other _____

C. Proposed Absorption System (See Form B for Percolation Information)

Percolation Rate 60 (min. per inch) Soil Type: SHC Land Slope: 5 %

Type of Absorption System: ☒ Trench ☐ Bed ☐ Other _____

Total Square Feet of Field Required: 1320 sq. ft.

Type of Lateral: ☐ Half-Moon ☐ Perforated Pipe ☒ Other Lateral Material: Infiltrator Chamberless

Capacity of Septic Tank 1250 gals Number of Absorption Beds: _____ Number of Distribution Laterals per Bed _____

Total Length of Laterals 340 ft. Number of Trenches 4 Trench Width 3'

D. Setbacks Check the Boxes Below if the Required Setback has been Satisfied

Distance From	Private Well	Public Well	Surface Water	Gound Water	Pressure Water Lines	Property Lines	Foundations Yours	Foundations Neighbors	All Other Setbacks
Tank (ft)	50 ☒	500 ☒	50 ☒	NA ☐	25 ☒	20 ☒	15 ☒	25 ☒	☒
Field (ft)	100 ☒	500 ☒	50 ☒	4 ☒	30 ☒	20 ☒	30 ☒	40 ☒	☒
Lagoon (ft)	100 ☐	500 ☐	50 ☐	N/A ☐	30 ☐	50 ☐	100 ☐	200 ☐	☐

E. Required Signatures

Home Building Contractor _____ Date _____

Installer Brad Southard Date 4-1-05

FORM 23-102 10-96

Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

D

Permit Number: 05380300101

Sewage Disposal System

As Built Plans & Specifications

Date _____

System Location (Indicate correct number and street)

Address 20820 S. 54th St. (no rural route) City Hickman NE, Zip 68372

A. Building Sewer

1. Material: _____
   Diameter: _____ in.
2. Distance above basement floor: _____ in.
   or distance below basement floor: _____ in.
3. Distance between dwelling and septic tank: _____ ft.
4. Number of clean-outs: _____
5. Distances to: well or suction line _____ ft.
   stream _____ ft.
   pressure line _____ ft.
   property line _____ ft.

B. Septic Tank

1. Material: _____
   Number of compartments: _____
2. Capacity: _____ gal.
3. Factory built: ☐ Yes ☐ No
4. Manholes: Over inlet, diameter _____ in.
   Over outlet, diameter _____ in.
   Riser: ☐ above ☐ below grade _____ in.
5. Inlet: ☐ baffle ☐ tee
6. Outlet: ☐ baffle ☐ tee
7. Depth to top of tank, below unfinished grade: _____ in.
8. Distances to: Well or suction line _____ ft.
   Stream _____ ft.
   Pressure line _____ ft.
   Property line _____ ft.

C. Distribution Box

1. Material: _____
   Number available outlets: _____
2. Factory built: ☐ Yes ☐ No
3. Distance from septic tank: _____ ft.

D. Absorption Field

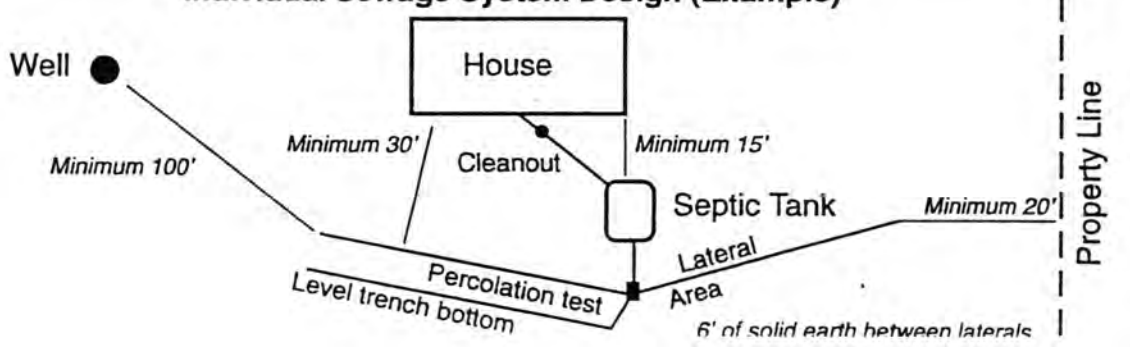
(Provide as-built drawings on back of this form)

1. Type: ☐ Half rounds ☐ Perforated pipe
   Diameter of half round: _____
   or perforated pipe: _____
   Material: ☐ fiberglass ☐ plastic ☐ concrete
   ☐ other _____
2. Lateral lines: Number _____
   Length of each line: _____ ft. _____ ft.
   _____ ft. _____ ft., _____ ft.
3. Trench dimensions: Width _____ ft.
   Slope _____ in/100 ft.
   Average depth _____ in
4. Filter material: _____
   Depth of material _____ in.
5. Distances to: Well or suction line _____ ft.
   Stream _____ ft.
   Pressure line _____ ft.
   Property line _____ ft.

Complete "As Built" drawing on back of this form.

Indicate North with Arrow

Individual Sewage System Design (Example)



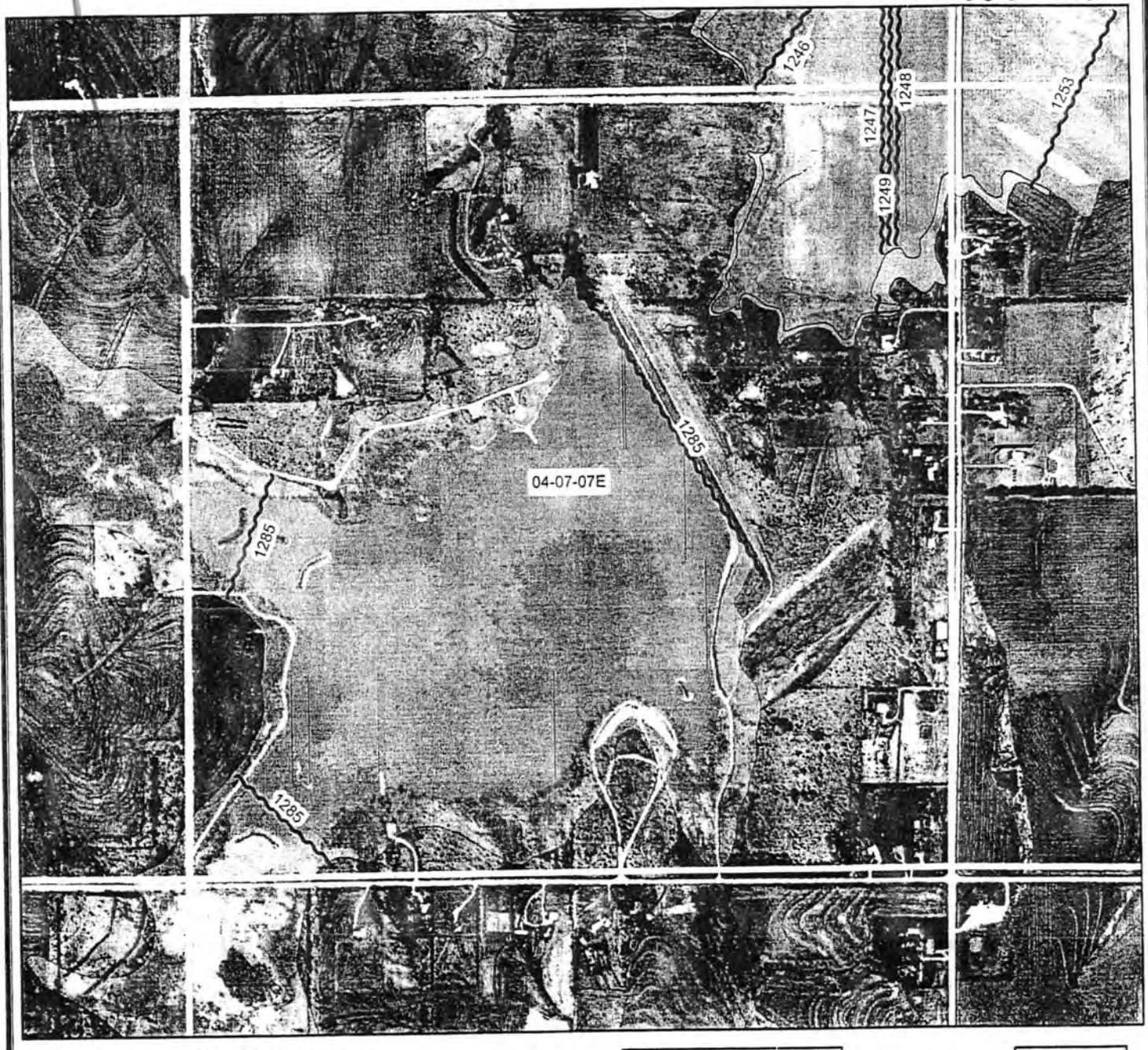
Brad, This Map Shows the SW Corner of the Property as being in Flood Plane.

Johnson Lot

Mark J

Base Flood Elevation Determination
Section 04-07-07E, Lancaster County, Nebraska
September 23, 2004

#0538030010 1



Use and Limitations

The Base Flood Elevation (BFE) is defined as the calculated water surface elevation during a flood with a 1% annual probability of being equaled or exceeded.

If a structure is located on one of the BFE contour lines, use the elevation associated with the line. For structures between two contour lines, use the higher value (Referenced to NGVD 1929). Elevations of unlabeled lines continue a consistent pattern, and may be estimated from labeled contours nearby. Elevations in areas with an effective detailed study are for reference only; the official elevation should be determined from the published profile.

This determination may be used for floodplain management or permitting. For design of developments within the floodplain, NDNR recommends that a professional engineer perform a site-specific analysis. The Nebraska Department of Natural Resources provides floodplain information from best available data to other units of government based on authority from Nebraska state statutes.

Legend

Sections

Base Flood Elevation

N W E S

NEBRASKA Department of Natural Resources

Feet

1,000 500 0 1,000 2,000

This BFE was determined by:

James R Williams

James R. Williams, P.E., CFM, (402) 471-2363; Fax 471-2900
Nebraska Dept. Natural Res., P.O. Box 94676, Lincoln, NE 68509

Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

D

Permit Number:

Sewage Disposal System

As Built Plans & Specifications

Date 5-20-05

System Location (Indicate correct number and street)

Address 5054 (no rural route) City Hickman NE, Zip 68372

A. Building Sewer

1. Material: Sch 40 PVC
   Diameter: 4 in.
2. Distance above basement floor: ____ in.
   or distance below basement floor: 11 in.
3. Distance between dwelling and septic tank: 75 ft.
4. Number of clean-outs: 1
5. Distances to: well or suction line > 50 ft.
   stream > 50 ft.
   pressure line > 15 ft.
   property line > 20 ft.

B. Septic Tank

1. Material: Plastic (Fralo)
   Number of compartments: 1
2. Capacity: 1250 gal.
3. Factory built: ☒ Yes ☐ No
4. Manholes: Over inlet, diameter 22 in.
   Over outlet, diameter 22 in.
   Riser: ☐ above ☐ below grade ____ in.
5. Inlet: ☐ baffle ☒ tee
6. Outlet: ☐ baffle ☒ tee
7. Depth to top of tank, below unfinished grade: 13 in.
8. Distances to: Well or suction line > 50 ft.
   Stream > 50 ft.
   Pressure line > 50 ft.
   Property line > 20 ft.

C. Distribution Box

1. Material: PVC
   Number available outlets: 5
2. Factory built: ☒ Yes ☐ No
3. Distance from septic tank: 5' 1/2 ft.

D. Absorption Field

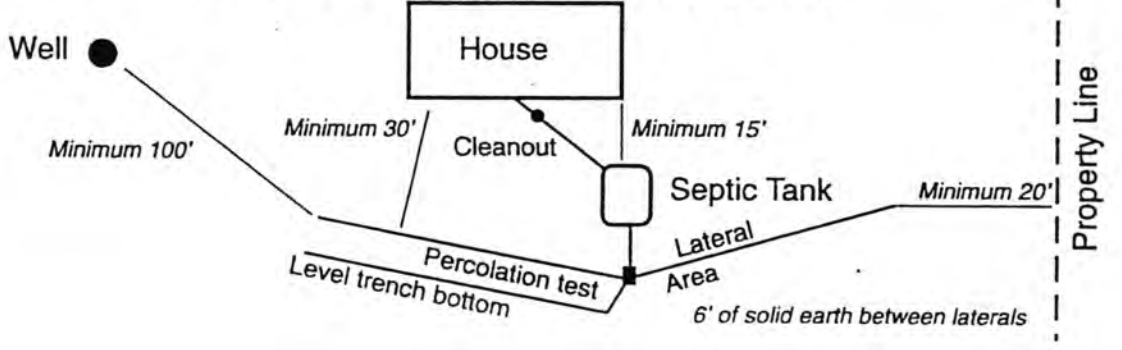
(Provide as-built drawings on back of this form)

1. Type: ☒ Half rounds ☐ Perforated pipe
   Diameter of half round: 36 ft-10 Inch Hunter
   or perforated pipe: ____
   Material: ☐ fiberglass ☒ plastic ☐ concrete
   ☐ other ____
2. Lateral lines: Number 4
   Length of each line: 100 ft. 100 ft.
   100 ft. 40 ft., ____ ft.
3. Trench dimensions: Width 4 ft.
   Slope 6 in/100 ft.
   Average depth 32 in
4. Filter material: Gravel
   Depth of material ____ in.
5. Distances to: Well or suction line > 100 ft.
   Stream > 50 ft.
   Pressure line > 50 ft.
   Property line > 20 ft.

Complete "As Built" drawing on back of this form.

Indicate North with Arrow

Individual Sewage System Design (Example)



FORM 23-103 10-96

TO: Brad Southwick
FROM: Mark Johnson
RE: Plat Plan w/ Flood Map on Back

3/15/05

Official Survey Record

LANCASTER County, Nebraska

Phone (402) 434-2686
Fax (402) 434-2687

ALLIED SURVEYING AND MAPPING, INC.

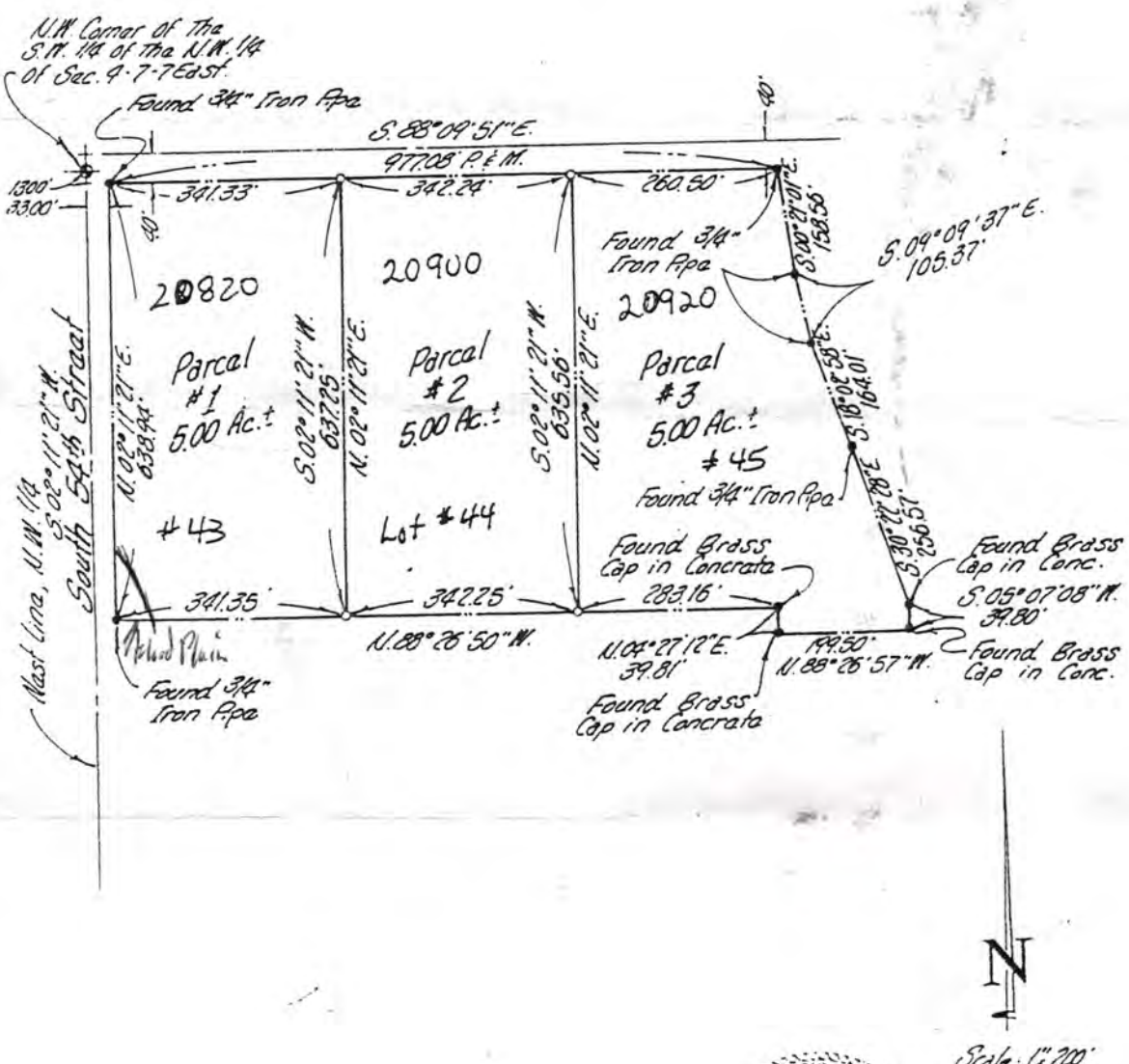
6120 South 58th Street – Suite "A" – Lincoln, Nebraska 68516

Survey of a part of Lot 39 of Irregular Tracts in the Northwest Quarter NW¼ of Section 4 T. 7 N., R. 7 East of the 6th P.M.

Job No. 22882

Sheet 1 of 4

December 21, 19 95



o = Set 1" X 24" Iron Pipe

• = Monuments Found

SURVEYORS CERTIFICATE

I hearby certify that I have accurately surveyed the property in the above plat. Iron PIPE were set at points marked o. All dimensions are in feet and decimals of a foot.

Signed this 26th day of December, 19 95

NAME DENNIS D. SIMONDS

Surveyor's License # 343
Nebraska L.S. (SEAL)

As Built Drawing

