Lincoln-Lancaster County Health Department
ENVIRONMENTAL PUBLIC HEALTH DIVISION

005426

3140 N STREET : LINCOLN, NE 68510-1514

(402) 441-8000

Permit: SEWAGE INSTALLATION
LAGOON

Permit #: 04380287401

Issued: 08/06/04
Expires: 02/06/05
Revenue Code: 3157

Establishment:
RICHARD L SHANAHAN
T9N R6E SEC 16
SILVER BELL ESTS BLK 1 LOT 9

FEES: $200.00

Permittee:
RICHARD L SHANAHAN
5440 NW TUDOR LN
LINCOLN NE 68521

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

A

Permit Number: 04380287401

Sewage Disposal System

CHANGED TO 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 1301 WEST SILVER BELLE RD. City _____ NE, Zip _____
(no rural route)

Legal Description _____ 16 9N 6E Silver Bell estates 1 1 9
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

B. Owner

Name Richard L Shanahan Signature Richard L Shanahan

Address 5440 NW Tudor Ln City/State/Zip Lincoln NE. 68521

☐ Check if owner designed system Home Phone 402-477-0247 Work Phone 402-450-1368

C. Contractor

Name Richard L Shanahan Company Name _____

Address same City/State/Zip same

☐ Check if contractor designed system Work Phone same

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

Designer Name Lloyd Jakobele Firm Raymond Contracting Inc. Work Phone 402-890-6009

E. This System Will Serve a

☒ Residential Dwelling Number of Bedrooms 4 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 8/6/04 Date frwd 8/9/04 ACTION ☒ Approved ☐ Disapproved Signature Jerrold C. Hood
2. **Supt. Bldg. Insp. or Village Clerk** Date rec'd 8/9 Date frwd 8/9 ACTION ☒ Approved ☐ Disapproved Signature _____
3. **City or County Engineer** Date rec'd 8/9/04 Date frwd 8/9/04 ACTION ☒ Approved ☐ Disapproved Signature Chase Baker
12/17/04 Line, tank, lateral

Installation Final Written Approval

By Doug Small

Date 12/29/04

Business Office Use Only
Date Rec'd 8-6-04
Amt Paid 200.00
Rec'd By cw Cash/Check No. 1528

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

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B

Permit Number:

Sewage Disposal System

Soil Absorption Test Data Report

Annex to Application

PLEASE PRINT OR TYPE

System Location (Indicate correct number and street)

Address Silver Bell Ct (no rural route) City Lincoln NE, Zip 68523

Owner Richard Shanahan Addresss 5440 NW Tudor Ln, Lincoln, NE 68521

Soil Type (SCS): Wymore (WtC2) Percolation Rate: 60 min./inch

Date of Tests 8-12-04 to 8-13-04 Weather: Precipitation 0 Temperature 68°

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	36	8-12	11:00a	8-12	3:00p	8-13	9:40a	6	8-13	1:40p	30	1/2	30/0.50 = 60
2	30	"	"	"	"	"	"	"	"	"	"	1/4	30/0.25 = 120 F
3	32	"	"	"	"	"	"	"	"	"	"	1/4	30/0.25 = 120 F
4	38	"	"	"	"	"	"	"	"	"	"	7/8	30/0.88 = 34
5	32	"	"	"	"	"	"	"	"	"	"	3 1/8	30/3.13 = 10
6	33	"	"	"	"	"	"	"	"	"	"	2 3/8	30/2.38 = 13
7	34	"	"	"	"	"	"	"	"	"	"	2 1/4	30/2.25 = 13
8	36	"	"	"	"	"	"	"	"	"	"	1 1/4	30/1.25 = 24

Sum of Percolation Rates: 154

Average of Rates: 26

Rate Used for Calculation: 60 -20 mpi variance

Person Conducting Percolation Tests

Name: Terri Jakoubek, Raymond Contracting, Inc

Phone: 402-783-2663 or 402-850-3870

Address 13800 NW 70th St
Raymond, NE 68428
P1198

Holes 2 & 3 had water remaining in holes overnight

DO NOT WRITE BELOW THIS LINE

Reviewing Action

Remarks

Signature of Reviewing Official Date

FORM 23-101 10-95

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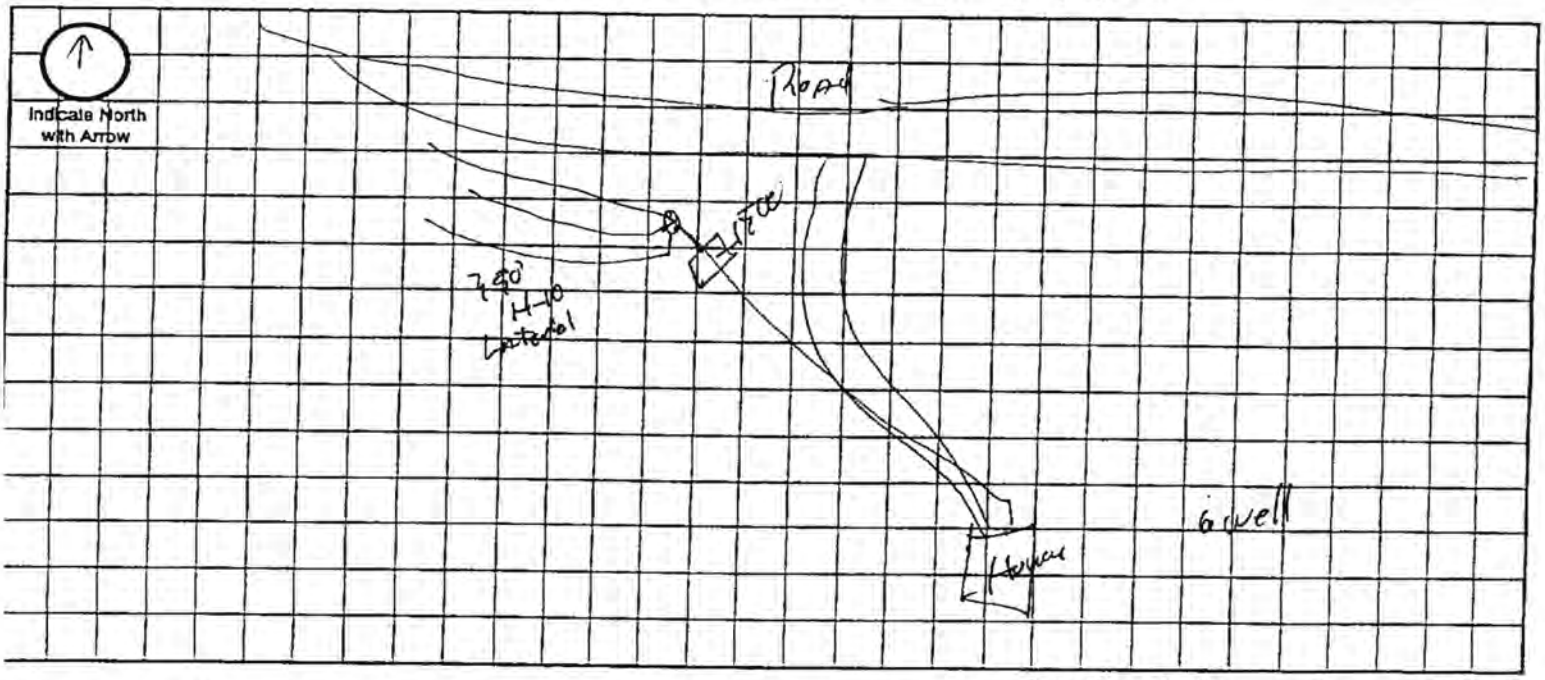
C

Permit Number:

Sewage Disposal System
Preliminary Plan Specifications

Shanahan

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) Silver Bell Ct City Lincoln NE, Zip 68523

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: WtC2 (Wymore) Land Slope: _____ %

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

Total Square Feet of Field Required: 1,400 sq. ft.

Type of Lateral: ☐ Half-Moon ☐ Perforated Pipe ☒ Other Lateral Material: ADS H-10

Capacity of Septic Tank 1,500 gals Number of Absorption Beds: _____ Number of Distribution Laterals per Bed _____

Total Length of Laterals 350 ft. Number of Trenches _____ Trench Width 4'

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 Richard S Shanahan Date Nov 3 - 04

Installer Terri L. Jakoubek Date 11-8-04

RM 23-102 10-96

Lincoln-Lancaster County Health Department
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D

Permit Number:

Sewage Disposal System

As Built Plans & Specifications

Date 12-17-04 Shanahan

System Location (Indicate correct number and street)

Address 1301 W. Silver Bell Ct (no rural route) City Lincoln NE, Zip 68523

A. Building Sewer

1. Material: class 160
   Diameter: 4 in.
2. Distance above basement floor: 6' in.
   or distance below basement floor: ____ in.
3. Distance between dwelling and septic tank: 150 ft.
4. Number of clean-outs: 2
5. Distances to: well or suction line 100+ ft.
   stream 100+ ft.
   pressure line 100+ ft.
   property line 100+ ft.

B. Septic Tank

1. Material: concrete
   Number of compartments: one
2. Capacity: 1500 gal.
3. Factory built: ☒ Yes ☐ No
4. Manholes: Over inlet, diameter 24 in.
   Over outlet, diameter 24 in.
   Riser: ☐ above ☐ below grade at in.
5. Inlet: ☒ baffle ☐ tee
6. Outlet: ☒ baffle ☐ tee
7. Depth to top of tank, below unfinished grade: 12 in.
8. Distances to: Well or suction line 100+ ft.
   Stream 100+ ft.
   Pressure line 100+ ft.
   Property line 100+ ft.

C. Distribution Box

1. Material: PVC
   Number available outlets: 3
2. Factory built: ☒ Yes ☐ No
3. Distance from septic tank: 27' ft.

D. Absorption Field

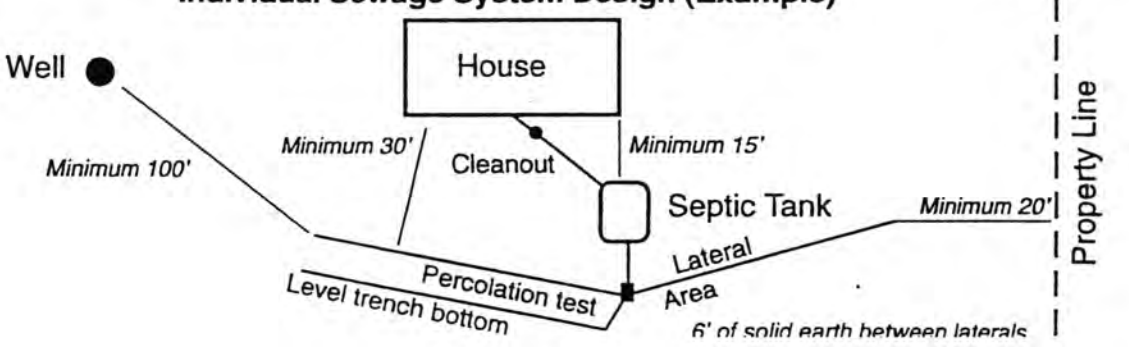
(Provide as-built drawings on back of this form)

1. Type: ☐ Half rounds ☐ Perforated pipe
   Diameter of half round: 12" x 34" wide
   or perforated pipe: H-10 Standard
   Material: ☒ fiberglass ☐ plastic ☐ concrete
   ☐ other ____
2. Lateral lines: Number ____
   Length of each line: 137.50' ft. 131.25' ft.
   81.25 ft. ____ ft., ____ ft.
3. Trench dimensions: Width ____ ft.
   Slope Flat in/100 ft.
   Average depth 30" in
4. Filter material: Dirt
   Depth of material 30" in.
5. Distances to: Well or suction line 100+ ft.
   Stream 100+ ft.
   Pressure line 100+ ft.
   Property line ~~100+~~ 15' ft.

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

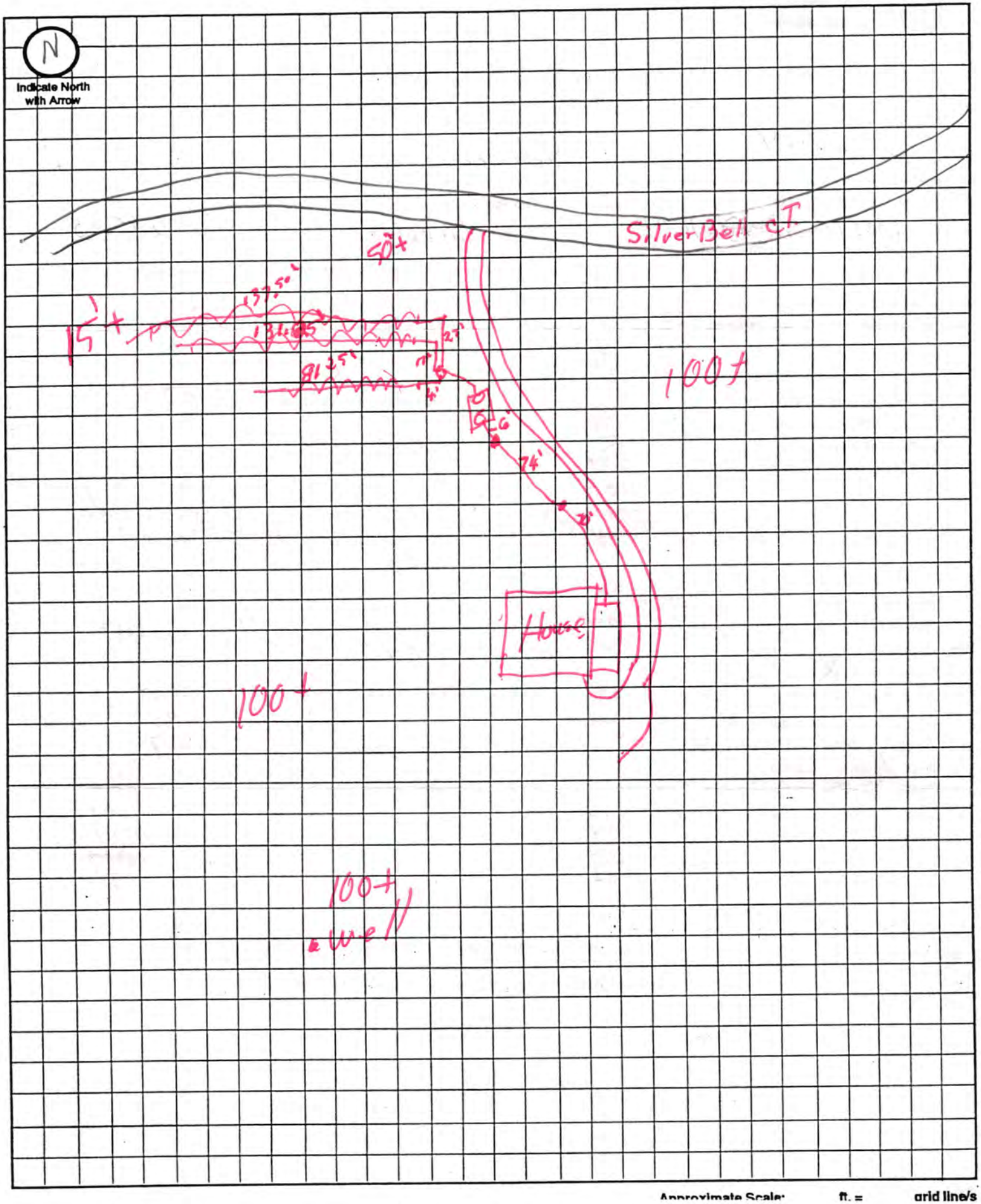
Indicate North with Arrow

Individual Sewage System Design (Example)



FORM 23-103 10-96

As Built Drawing



Approximate Scale: ft. = grid line/s