MAR 09 2015

Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 N Street • Lincoln NE 68510-1514
Phone: 402-441-8643

A

Permit Number
HS001033

Onsite Wastewater Treatment System
Request for Site Clearance and Permit

Include Form B and C.
Submit correct fee
with this Application

3 acres or more required for: ☒ Septic System ☐ Lagoon ☐ Other (Refer to Form C)

The undersigned hereby requests site clearance and permit to construct a Wastewater Treatment System in conformance with appropriate regulations.

PLEASE PRINT OR TYPE

A. Onsite System Location

Address N. 151st St (no rural route) City Lincoln, NE Zip 68531

Legal Description SW 26 11N 6E
1/4 1/4 Section Township Range Subdivison Addition Block Lot

PID 12-26-300-005-000

B. Owner

Name Jason S Danley Signature Jason S Danley

Address 1843 Shooting Star Dr City/State/Zip Lincoln, NE 68521

Home Phone 402-770-7298 Work Phone

C. Certified Installer

Name: Lloyd Jakoubek, Raymond Contracting Inc Signature Keith Jakoubek for Lloyd

Address 13800 NW 70th St City/State/Zip Raymond, NE 68428

Work Phone 402-890-6009

D. Engineer

☐ Check and complete if engineer designed system P.E. License Number:

Designer Name Firm Work Phone

E. This system will serve a

☒ Residential Dwelling Number of Bedrooms 2 Whirlpool Bathtub? ☒ Yes ☐ No Total Acres 36.13
Garbage Grinder? ☒ 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. 02-30

1. Health Department
Site visits
Comments
Date rec'd
Date frwd
ACTION ☐ Approved ☐ Disapproved
Signature

2. Supt. Bldg. Insp. or Village Clerk
Comments
Date rec'd
Date frwd
ACTION ☐ Approved ☐ Disapproved
Signature

3. City or County Engineer
Comments
Date rec'd
Date frwd
ACTION ☐ Approved ☐ Disapproved
Signature

Installation Final Written Approval
By
Date

Business Office Use Only
Date Received 3-9-15 Amount Paid $ 375.00
Received By SB Cash/Check No. 8590

White - Health Department Yellow - Engineer Pink - Building & Safety

Form A Updated: 1/13

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

B

Permit Number: HS001033

Onsite Wastewater Treatment System
Soil Evaluation Report

PLEASE PRINT OR TYPE

Onsite System Location

Address N. 1st St (no rural route) City Lincoln NE, Zip 68531

Owner Jason + Deb Danley Address

Date of Tests 8/5/2014 to 8/6/2014 Weather: Precipitation 1/4" overnight Temperature 88°

Percolation Test Data Table

A.	B.	C. D. E. F. Saturation/Swelling Time				G. H. I. J. K. Water Level Drop Last 30 mins of 4 hr or last 10 mins of 1 hr					L. M. N. Results		
		Start		End		Start		Initial	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 Interval	Water Level Drop (In)	Percolation Rates (Min/In = mpi)
1	24	8/5	3:00p	8/5	7:00p	8/6	5:30p	6	8/6	11:00a	30	1/6	1/6
2	25	"	"	"	"	"	"	6	"	"	"	5/8	48
3	25	"	"	"	"	"	"	6	"	"	"	3/4	40
4	27	"	"	"	"	"	"	6	"	"	"	1 1/4	24
5	25	"	"	"	"	"	"	6	"	"	"	1/2	60
10	20	"	"	"	"	"	"	6	"	"	"	5/8	48
								6					
								6					

Person Conducting Percolation Test # C1198

Name: Terri Jakoubek, Raymond Contracting.
Phone: 402-783-2663 or 402-890-3870
Address 13800 NW 70th St
Raymond, NE 68428
Soil type (NRCS Maps/Other) SL / CL
Groundwater Depth >8'

Sum of Percolation Rates: 286
Average of Rates: 39
Rate Used for Calculation: 60 (20 mpi variance)

DO NOT WRITE BELOW THIS LINE

Reviewing Action

Comments (Soil type, groundwater, floodplain, etc.)

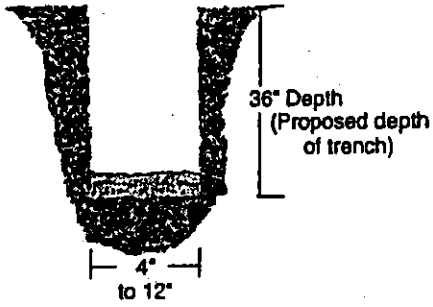
Signature of Reviewing Official Date

READ THOROUGHLY

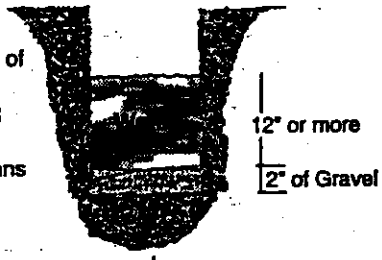
DIAGRAM OF PERCOLATION TEST PROCEDURE

Finished Grade or Natural Ground Level

I. Size, Number, and Location or Test Holes
   - A. Dig six or more holes spaced uniformly over proposed lateral field site.
   - B. Scratch smeared spots on sides of hole.
   - C. Remove loose material from hole.
   - D. Add 2" of gravel to hole.

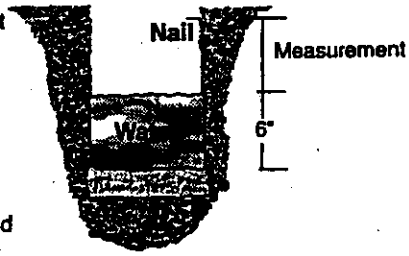


II. Saturation of Soil (Pre-soak)
   - A. Fill hole with 12" or more of water.
   - B. MAINTAIN THIS WATER LEVEL FOR 4 HOURS.
   - C. Record on Form B columns a thru f.



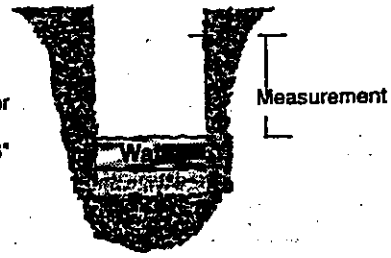
24 Hours Later

III. Percolation-rate Measurement **(refer to instructions 5a, 5b, or 5c.)**
   - A. Add 6" of water.
   - B. Measure from fixed reference point (nail) to water.
   - C. Record measurement and time on front of Form B.



½ hour later
(30 minutes)

   - D. 30 minutes later remeasure and record time.
   - E. If water will be too low for another reading 30 minutes later, adjust to 6" of water and remeasure and record time.



   - F. Continue for 3½ hours taking readings every 30 minutes.
   - G. Last 30 minute reading is used in filling out Form B. Record date, time, intervals and water level drops in column g thru m.

Instructions

1. **Number and location of tests.** Percolation tests shall be made in 6 or more separate test holes which shall be spaced uniformly over the proposed lateral field site.
2. **Type of test hole.** Dig or bore a hole 3 feet deep with a diameter of 4 to 12 inches. (To save time, labor and the volume of water required per test, a 4-inch auger hole is recommended).
3. **Preparation of the test hole.** Scratch or roughen any smeared spots on the sides of the hole with a knife blade or sharp pointed instrument to provide a natural soil interface into which water may percolate. Remove all loose material from the hole. Add 2 inches of gravel to protect the bottom from scouring when water is poured into the hole.
4. **Saturation and swelling of the soil.** Fill the hole with clear water to a depth of 12 inches or more above the gravel and maintain this water level at least 4 hours and preferably overnight. The accuracy and true value of the percolation data depends on thorough saturation and swelling of the soil.
5. **Percolation-rate measurement.** Percolation-rate measurements shall be made 24 hours after starting the saturation and swelling procedure described above. Record results on the front of this form and complete all calculations.
   a. If water remains in the test hole after the overnight swelling period, adjust the depth to approximately 6 inches over the gravel. From a fixed reference point, measure the drop in water level over a 30 minute period to the nearest 1/8 of an inch. This drop is used to calculate the percolation rate.
   b. If no water remains in the test hole after the overnight swelling period, add clear water to bring the depth to approximately 6 inches over the gravel. From a fixed point, measure the drop in water level to the nearest 1/8 of an inch at 30-minute intervals for 4 hours. Refill to the 6 inch level over the gravel as often as necessary. The drop that occurs during the final 30 minutes is used to calculate the percolation rate.
   c. In sandy soils (or other soils in which the first 6 inches of water seeps away in less than 30 minutes after the overnight swelling period) the time interval between measurements shall be 10 minutes instead of 30 minutes and the test run for 1 hour instead of 4 hours. The drop that occurs during the final 10 minutes is used to calculate the percolation rate.
6. **Record the test results and complete all calculations on the front of this form.** The average of the percolation rates calculated for all holes in the last 30 (10) minutes will normally be the rate used for calculations to size the system. ***Exceptions are the use of the greatest percolation rate when rates vary more than 20 min/in between holes or when other soil analysis indicates potential percolation problems.***

LLCHD reserves the right to require additional testing based on knowledge of soil types, percolation tests results on nearby properties, or due to concerns with procedures followed. In some situations, LLCHD staff will require and perform on-site observation of percolation tests.

Lincoln-Lancaster County Health Department
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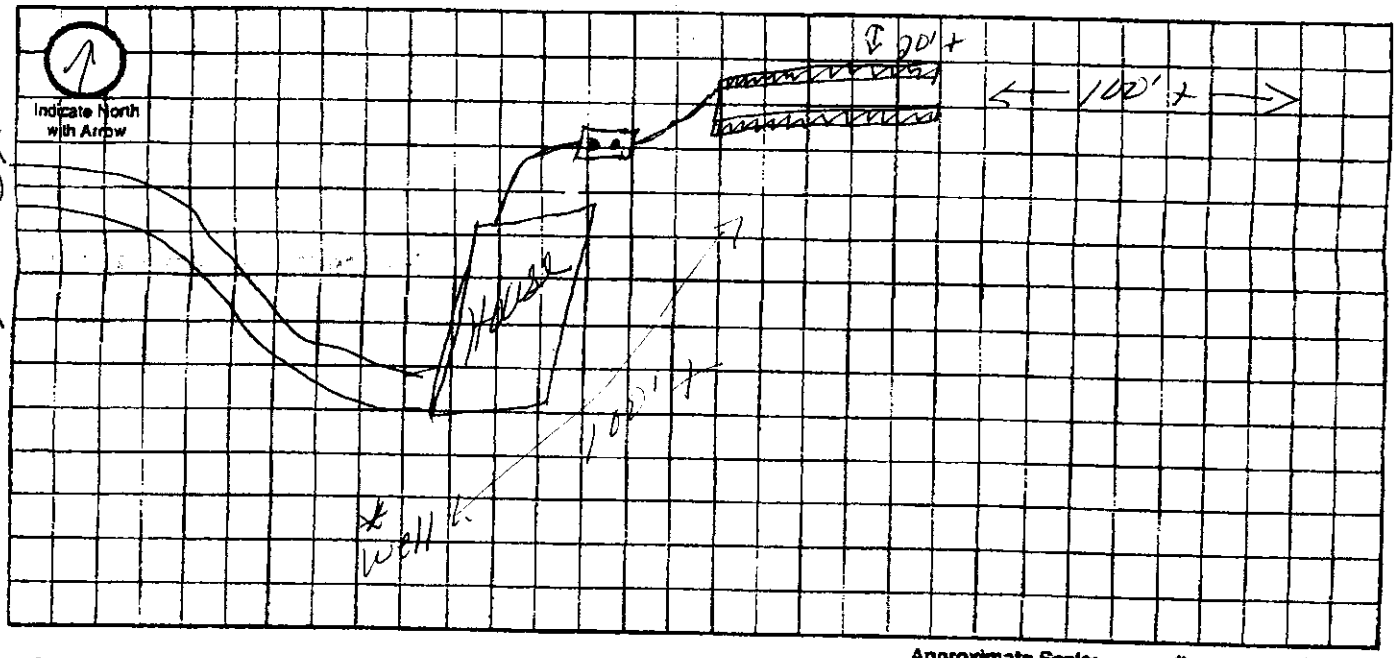
C

Permit Number: HS001033

Onsite Wastewater Treatment System

Preliminary Plan Specifications

Draw a plot plan showing onsite system sewer lines, drop of distribution boxes, tank, drainfields, percolation test holes, well, residence, direction of groundwater flow, property lines, and reserve area for replacement onsite system.



Approximate Scale: _____ ft. = _____ grid lines

A. Onsite System Location

Address (no rural route) N. 1st St City Lincoln NE, Zip 68531

B. Proposed Septic Tank/s

Septic Tank Cap. 1,000 gals Tank Material: ☒ Concrete ☐ Plastic ☐ Other _____ ☐ Lagoon (Max. seepage 1/8" per day)

C. Reserve Area for Replacement Onsite System

☐ Drainfield Absorption Area (percolation test required) ☒ Lagoon

D. Drainfield Absorption System

Percolation Rate 60 (min/inch = mpi) No. of Bedrooms 2 Soil Type silty clay loam (some sand) Land Slope 3 - 6 %

☒ Trench ☐ Bed ☐ Non-Standard (engineer designed and NDEQ approved Total Square feet of drainfield 700 sq.ft.

Total length of laterals 175 Type of distribution: ☐ Perforated pipe ☐ Half-Round ☒ Chamber ☐ Other

No. of absorption tranches 2 Width 40" No. of drop boxes 2 Distrubtion Box _____

No. of absorption beds _____ Width _____ No of Distribution lines per bed _____

E. 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 ☐	☐

F. Required Signatures

Home Building Contractor _____ Date 3-3-15

Installer _____ Date 3/5/15

Lincoln-Lancaster County Health Department
Environmental Public Health Division (402) 441-8027
3140 N Street Lincoln, Nebraska 68510-1514

ON-SITE WASTE WATER SYSTEM
CONSTRUCTION - INSTALLATION PERMIT
No. HS001033

System Type: Standard

Situs: No Site Address Specified

Issued: 3/11/2015

Expires: 3/11/2016

Description: S26, T11, R6, Acres 6th Principal Meridian, LOT 17 SW

Owner: DANLEY, JASON S
1843 SHOOTING STAR DR
LINCOLN, NE 68521

Judith A Halstead
Judith A. Halstead, MS, Health Director

Dear Applicant:

The above document is your permit to construct a new On-site Waste Water System at the location listed. Please contact this office once the sytem is complete in order to schedule a final inspection before use.

Judith A Halstead
Judith A. Halstead, MS
Health Director

RAYMOND CONTRACTING
13800 NW 70TH ST
RAYMOND, NE 68428

Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 N Street • Lincoln NE 68510-1514
Phone: 402-441-8643

Exhibit 5

Permit Number: 15001033

Onsite Wastewater Treatment System

Inspection Sheet

Date 7/23/15 Legal Description 11-6-26- Lot 17

¼ ¼ Section/Township/Range

Onsite System Location

Address (no rural route) 7880 N. 1st City Lincoln

Owner _____ Address _____

Mark One: ❑ Dwelling ❑ Non-dwelling

☑ New System ❑ Alteration [❑ Tank Only ❑ Trench Only] ❑ Lateral Only

❑ Temporary modification (Describe problem causing discharge and reason for temporary modification): _____

Drainfield Absorption System:

☑ Lateral ❑ Bed ❑ Non-standard (engineer-designed and NDEQ approved) ❑ Holding Tank ❑ Trench

Total square feet of drainfield 700 Sq. Ft. Tank Size 1500 gals

Total length of laterals 175 Type of Distribution: ❑ Chamber ❑ Perforated Pipe ❑ Other (describe) _____

No. of Absorption Laterals 4 Width 3' No. of Drop Boxes 0 Distribution Box 2

Leveling Method Used Laser

Setbacks (Check the Boxes Below if the Required Setback has been Satisfied):

3-45'
1-40'

Distance From	Private Well	Public Well	Surface Water	Ground water	Pressure Water Lines	Property Lines
Tank (ft)	50 ☒	50 ☒	50 ☒	NA ☒	10 ☒	5 ☒
Field (ft)	100 ☒	50 ☒	50 ☒	4 ☒	2 ☒	5 ☒

Geographical Coordinates to 6 Decimals:

Tank N/A

Lateral #1 N/A Lateral #3 N/A

Lateral #2 N/A Lateral #4 N/A

Comments:

Inspections prior to Final Approval
Initial 7/21/15 Date 7/21/15
Follow-Up 7/23/15 Date 7/23/15 AM
Follow-Up _____ Date _____
Installation Final Written Approval
By _____
Date 7/23/15

Field Note Drawing (See Reverse Side):

JUL 29 2015

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

D

Permit Number: HS001033

Onsite Wastewater Treatment System

As Built Plans & Specifications

Date July 22, 2015 Legal Description SW 1/4 SW 1/4 26-11N-6E Section Township Range 2 of 7

Onsite System Location

Address (no rural route) 7880 N. 1st St City Lincoln NE, Zip 68521

Owner Jason Manley Address 1843 Shooting Star Dr. 68521

A. Sewer Pipe

1. Material: SDR 26
   Diameter: 4 in.
2. Distance above basement floor: _____ in.
   or distance below basement floor: 1 in.
3. Distance between dwelling and septic tank: 75' ft.
4. Number of clean-outs: one
5. Distances to: well or suction line 100 ft.
   stream 100 ft.
   pressure line 100 ft.
   property line 100 ft.

B. Septic Tank

☐ Label with Manufacturer, address and gallon capacity

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" dia. inspection pipe
6. Outlet: ☒ baffle ☐ tee ☐ 6" dia. inspection pipe
7. Depth to top of tank, below unfinished grade: 18-12 in.
8. Distances to: Well or suction line 100 ft.
   Stream 100 ft.
   Pressure line 100 ft.
   Property line 100 ft.

C. ☑ Distribution Box . ☐ Drop Boxes

(≥ 12" inspection opening) (removable lid to inspect)

1. Material: 2 - Plastic Dis-Box, 1 PVC Valve
   Number available outlets: 3 per Box / 2 per Valve
2. Factory built: ☑ Yes ☐ No
3. Distance from septic tank: 7' + 18' ft.

D. Drainfield Absorption

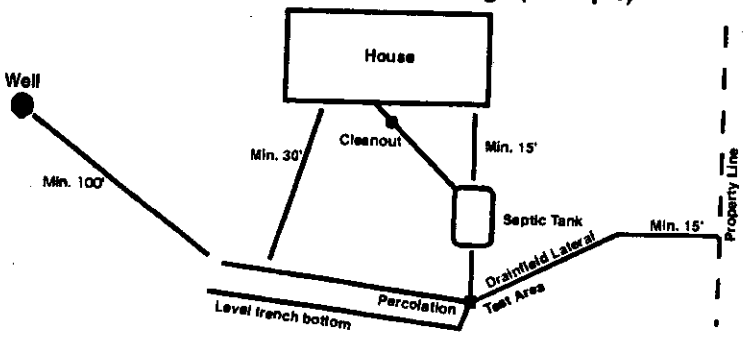
☑ Trench ☐ Bed ☐ Level Bottom

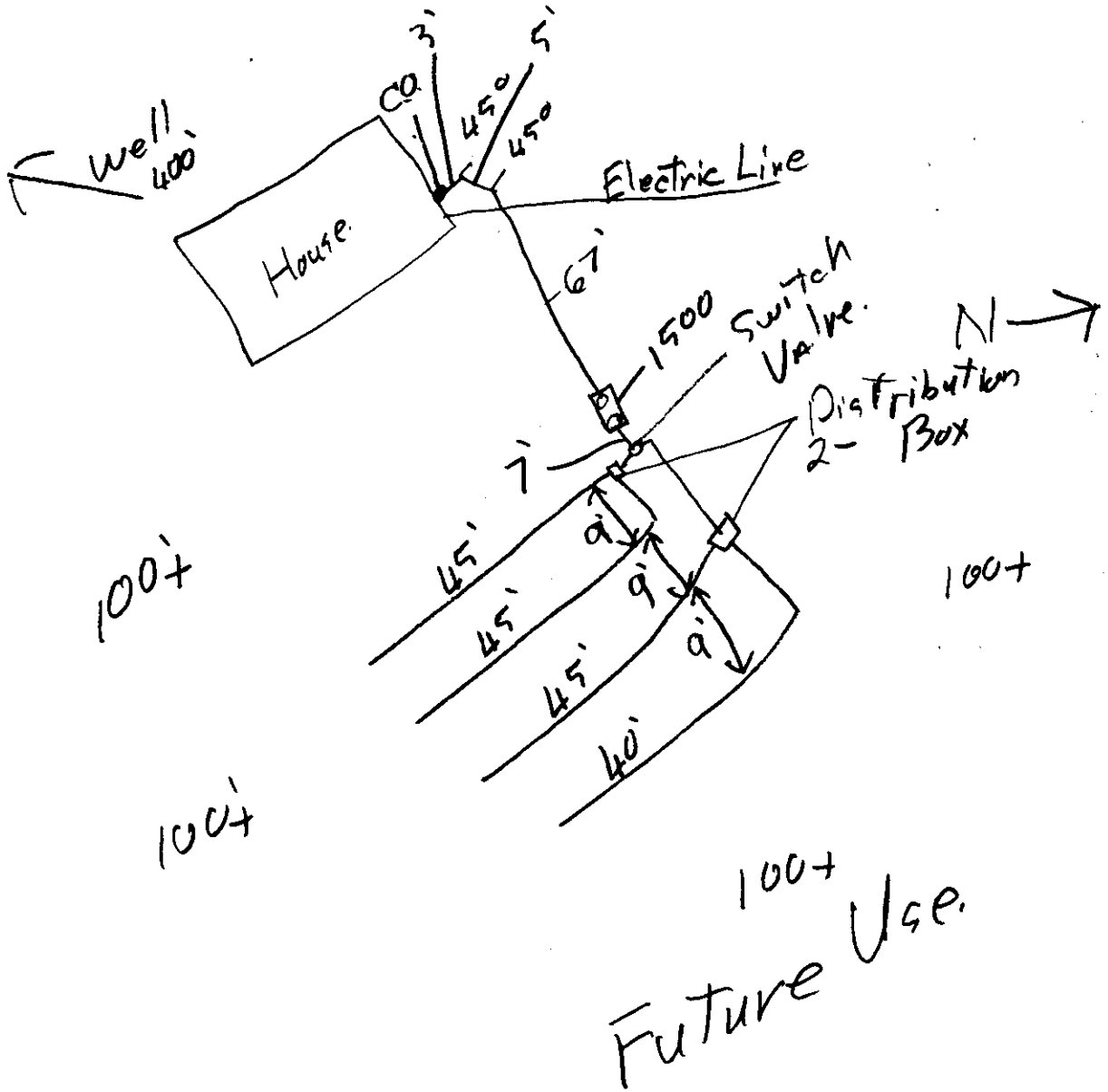
1. Type: ☐ Half rounds ☐ Perforated pipe ☐ Chambers
   Diameter or width: _____
   Number of distribution lines in bed _____
   Material: ☐ fiberglass ☑ plastic ☐ concrete
   ☐ other _____
2. Drainfield Laterals: Number 4, 2 Zones
   Length of each line: 45 ft. 45 ft.
   45 ft. 40 ft. _____ ft.
3. Drainfield dimensions: Width 40" ft.
   Distribution Pipe Slope Flat in/100 ft.
   Average depth 24-34 in
4. Filter material: Soil
   Depth of material 24-34 in.
5. Distances to: Well or suction line 100+ ft.
   Pressure line 100+ ft.
   Property line 100+ ft.
   House or building 100+ ft.
   Lake or Stream 100+ ft.

Complete As-Built drawing on the back fo this form.

Onsite Wastewater System Design (Example)

Indicate North with Arrow





7/21 - 7/22/2015.

Raymond Contracting, Inc.
Lloyd J Jakoubek
13800 NW 70th St
Raymond, NE 68428
402-783-2663