OCT 29 2014

Application to Alter, Extend or Repair an Onsite Wastewater Treatment System

☐ Municipal Code 24.38 ☐ County Resolution Number 02-30

The undersigned hereby applies for a permit to: ☐ **ALTER** ☒ **EXTEND** ☐ **REPAIR** an existing wastewater treatment system, complying with appropriate Ordinance or Resolution, as marked above with drawings attached.

1. **Legal description of property:**
   Township 10N Range 5E 1/4 ____ 1/4 SE Section 22
   Block ____ Lot N½ Addition ____
   Parcel ID 04 - 22 - 400 - 002 - 000 (i.e. 99-99-999-999-999)
   Street Address (no rural route) 700/750 NW 91st St, Lincoln, NE 68528 (Emerald)

2. **Property use:** ☐ residential ☐ commercial ☒ other use
   Number of bedrooms ____ Describe Group Home - 21 people per day. (Previous 5 Capita) No overnight use. No laundry. Residential Kitchen

3. **Type of Present Individual Disposal System** ☐ septic system ☐ lagoon ☐ other

4. **Description of proposed alteration, extension or repair** install new drainfield designed for 400 BPD with a perc rate of 20 mpi (see attached "typical Wastewater Flow" from EPA manual) will use existing 1,000 Gallon concrete septic tank.

5. **Work to be done by:** ☐ owner ☒ contractor's name Lloyd Jaksulek, Raymond Contracting 402-890-6009

6. **Estimated project:**
   a. Repair, replace, or minor extension with a cost less than $400 (no fee required).
   b. Total cost is greater than $400 (Return fee with this application)
   c. A permit is required if the use, operation, location, or type of system is changed.

Print Name Don Derringer Address 6757 Ridge Rd Lincoln, NE 68516 Phone: 402-430-3595

[redacted] [signature]

Please contact LLCHD for the permit fee for this application
Fee must be included before the application will be processed. Incomplete information will delay processing

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HEALTH DEPARTMENT USE ONLY

Date received ____/____/____ REVIEW: ☐ Approved ☐ Disapproved By: ____

Site visits
Date ____/____/____ By ____
Date ____/____/____ By ____
Date ____/____/____ By ____

Installation final written approval
Date ____/____/____ By ____

Return application to:
Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 "N" Street, Lincoln, NE 68510
Phone: 441-8643

Business Office Use Only

Received: Date: 10/29/14 Amount $205.00 Check No. 8502 Initials SB

Revised 3-09

HS000990

15 gpd X 20 residents = 300 GPD (2 Bedrooms)

Table 3-5. Typical wastewater flow rates from institutional sources[a]

Facility	Unit	Flow, gallons/unit/day		Flow, liters/unit/day	
		Range	Typical	Range	Typical
Assembly hall	Seat	2–4	3	8–15	11
Hospital, medical	Bed	125–240	165	470–910	630
	Employee	5–15	10	19–57	38
Hospital, mental	Bed	75–140	100	280–530	380
	Employee	5–15	10	19–57	38
Prison	Inmate	80–150	120	300–570	450
	Employee	5–15	10	19–57	38
Rest home	Resident	50–120	90	190–450	340
	Employee	5–15	10	19–57	38
School, day only:					
With cafeteria, gym, showers	Student	15–30	25	57–110	95
With cafeteria only	Student	10–20	15	38–76	57
Without cafeteria, gym, or showers	Student	5–17	11	19–64	42
School, boarding	Student	50–100	75	190–380	280

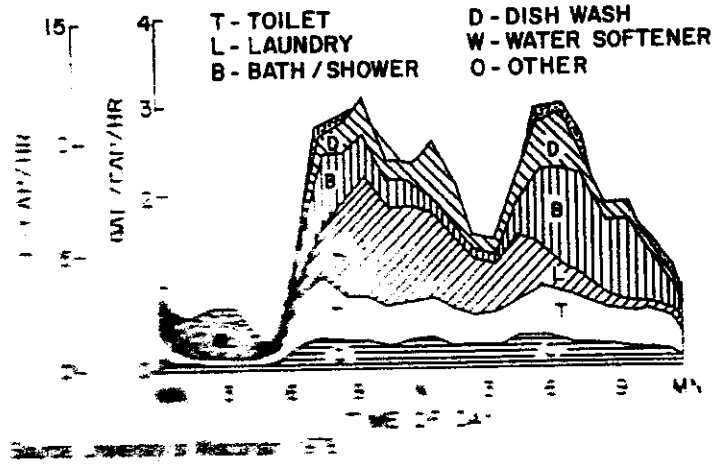
[a] Systems serving more than 20 people might be regulated under USEPA's Class V UIC Program. See http://www.epa.gov/safewater/uic.html for more information.

Source: Crites and Tchobanoglous, 1998.

residential dwellings. Maximum hourly flows as high as 100 gallons (380 L/hr) (Jones, 1976; Watson et al., 1967) are not unusual given the variability of typical fixture and appliance usage characteristics and residential water use demands. Hourly flows exceeding this rate can occur in cases of plumbing fixture failure and appliance misuse (e.g., broken pipe or fixture, faucets left running).

Wastewater flows from nonresidential establishments are also subject to wide fluctuations over time and are dependent on the characteristics of water-using fixtures and appliances and the business characteristics of the establishment (e.g., hours of operation, fluctuations in customer traffic).

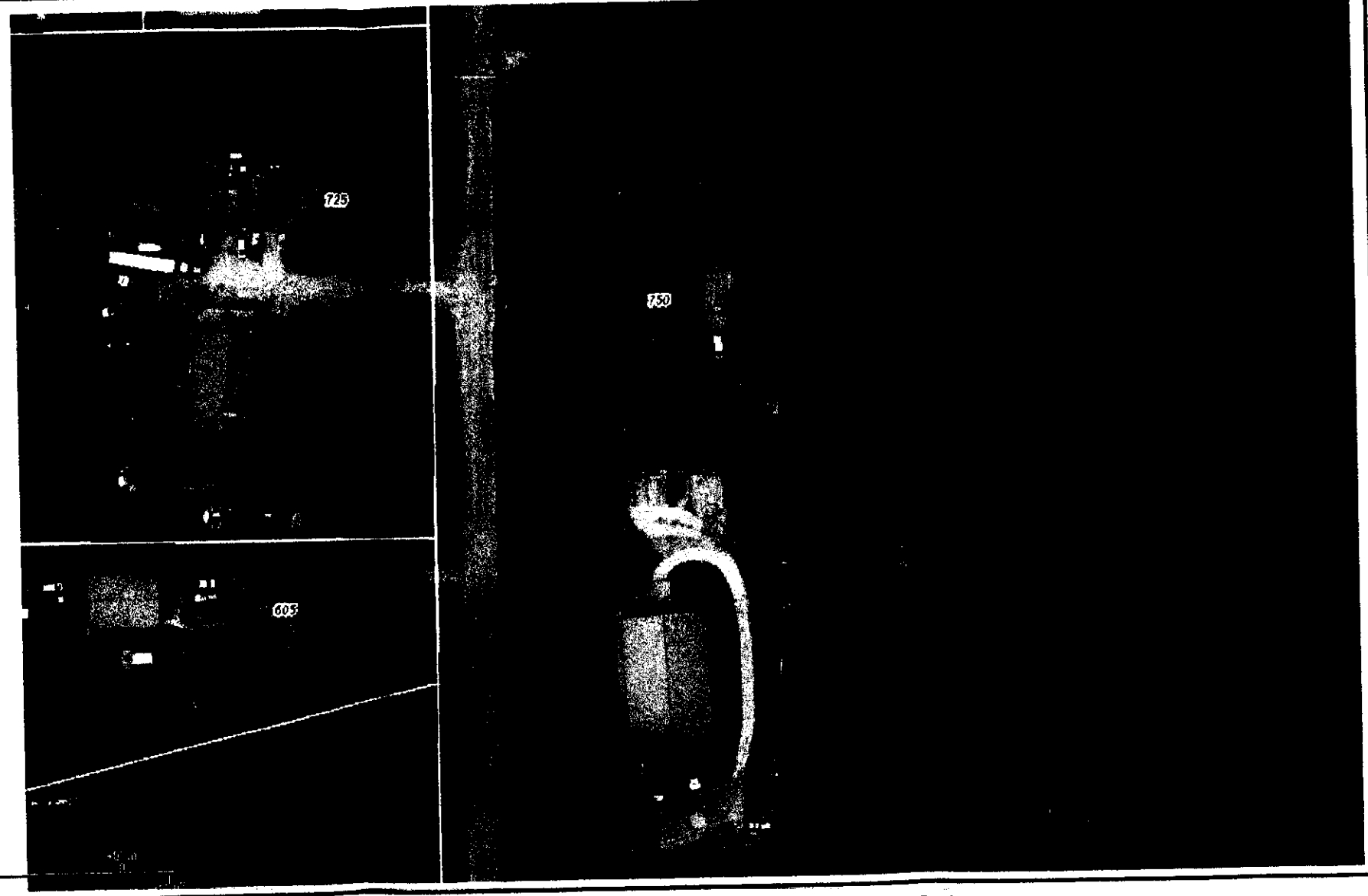
Figure 3-4. Peak wastewater flows for single-family home



The peak flow rate from a residential dwelling is a function of the fixtures and appliances present and their position in the plumbing system configuration. The peak discharge rate from a given fixture or appliance is typically around 5 gallons/minute (19 liters/minute), with the exception of the tank-type toilet and possibly hot tubs and bathtubs. The use of several fixtures or appliances simultaneously can increase the total flow rate above the rate for isolated fixtures or appliances. However, attenuation occurring in the residential drainage system tends to decrease peak flow rates observed in the sewer pipe leaving the residence. Although field data are limited, peak discharge rates from a single-family dwelling of 5 to 10 gallons/minute (19 to 38 liters/minute) can be expected. Figure 3-4 illustrates the variability in peak flow from a single home.

3.4 Wastewater quality

The qualitative characteristics of wastewaters generated by residential dwellings and nonresidential establishments can be distinguished by their physical, chemical, and biological composition. Because individual water-using events occur intermittently and contribute varying quantities of



N
W E
S

Lancaster County/City of Lincoln GIS Map

DDLC Partnership - Proposed New Drainfield

Printed: Oct 20, 2014

DISCLAIMER: The information is presented on a best-effort basis, and should not be relied upon for making financial, survey, legal or other commitments. If you have questions or comments regarding the data displayed on this map, please email ags@lincoln.ne.gov and you will be directed to the appropriate department.

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

ON-SITE WASTE WATER SYSTEM REPAIR PERMIT
No. HS000990

System Type: Standard

Situs: 750 NW 91 ST, RURAL, NE

Issued: 10/31/2014

Expires: 10/31/2015

Description: S22, T10, R5, 6th Principal Meridian, LOT 142 SE

Owner: DDLC PARTNERSHIP
6757 RIDGE RD
LINCOLN, NE 68512

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

Dear Applicant:

The above document is your permit to repair an existing On-site Waste Water System at the location listed. Please contact this office once repair is complete to obtain final approval 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: 402-441-8022

DEC 02 2014

D

Permit Number: H5000990

Onsite Wastewater Treatment System

As Built Plans & Specifications

Date November 26, 2014 Legal Description SE 1/4 SE 1/4 22-10N-5E Section Township Range Lot 142

Onsite System Location

Address (no rural route) 750 NW 91st St City Lincoln NE, Zip 68528

Owner DDLC Partnership Address 6757 Ridge Rd Lincoln, NE 68512

A. Sewer Pipe

1. Material: SDR26
   Diameter: 4 in.
2. Distance above basement floor: _____ in.
   or distance below basement floor: _____ in.
3. Distance between dwelling and septic tank: 65 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: old Concrete
   Number of compartments: one
2. Capacity: 1000 gal.
3. Factory built: ☑ Yes ☐ No
4. Manholes: Over inlet, diameter 12" 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: 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: Switch Box / Dis-Box / Enemas
   Number available outlets: _____
2. Factory built: ☑ Yes ☐ No
3. Distance from septic tank: 17' + 17' + 8' ft.

D. Drainfield Absorption

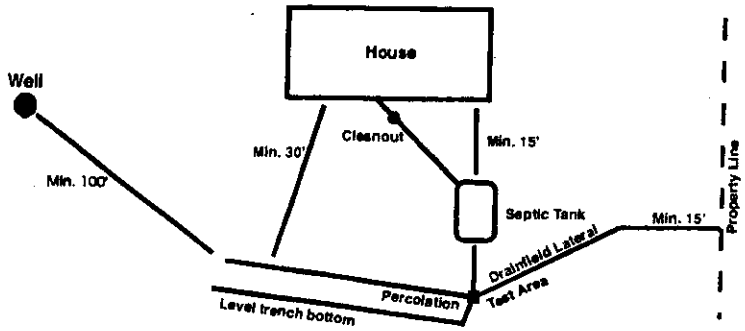
☑ Trench ☐ Bed ☐ Level Bottom

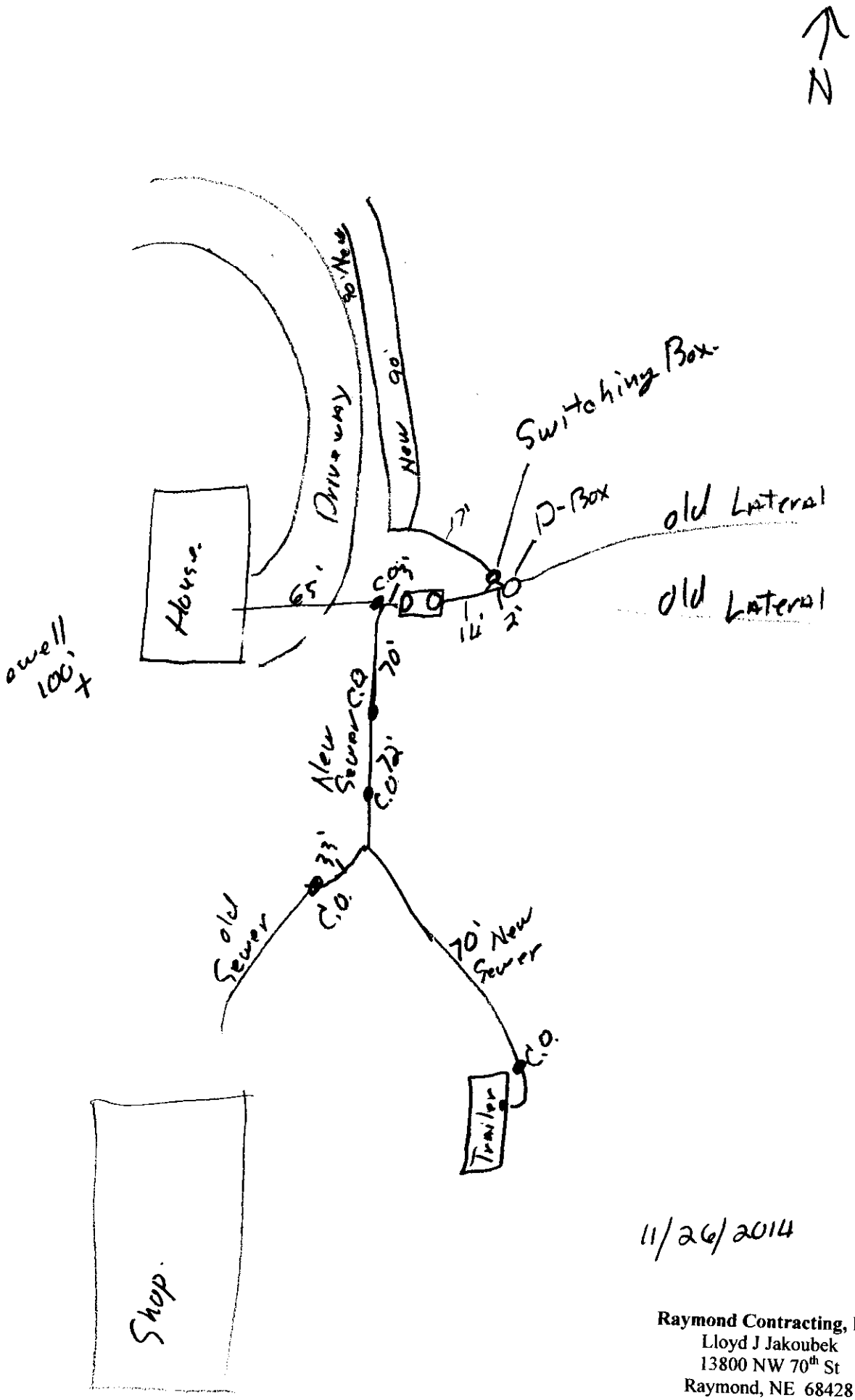
1. Type: ☐ Half rounds ☐ Perforated pipe ☐ Chambers
   Diameter or width: _____
   Number of distribution lines in bed _____
   Material: ☐ fiberglass ☑ plastic ☐ concrete
   ☐ other Switch Box
2. Drainfield Laterals: Number 4
   Length of each line: New 90 ft. New 90 ft.
   80 ft. 80 ft., _____ ft.
3. Drainfield dimensions: Width 40' ft.
   Distribution Pipe Slope Flat in/100 ft.
   Average depth 26-32 in
4. Filter material: Soil
   Depth of material 26-32 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





11/26/2014

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

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OCT 29 2014

SCANNED

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Print Name Dan Derringer Address 6751 Ridge Rd Lincoln, NE 68512 Phone: 402-430-7595

[redacted]

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HEALTH DEPARTMENT USE ONLY

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Date ____/____/____ By ____
Date ____/____/____ By ____

Installation final written approval
Date 11/26/14 By ____

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Phone: 441-8643

Business Office Use Only

Received: Date: 10/29/14 Amount $205.00 Check No. 8502 Initials SB

Revised 3-09

HS000990