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. HS001118

System Type: Lagoon

Situs: 1677 N 173 ST, RURAL, NE

Issued: 8/18/2015

Expires: 8/18/2016

Description: SAGEBROOK ESTATES, BLOCK 1, Lot 2

Owner: HAMAN, MICHAEL & KAYLEE
2801 S 41 ST
LINCOLN, NE 68506

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

Exhibit 5

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

OK 3/14/16

Permit Number: HS001118

5 bedroom 1.5x 4 = 165

Onsite Wastewater Treatment System

Inspection Sheet

Date 3/1

Legal Description ¼ 14 ¼ / 10N / 8E Section/Township/Range BLK 1 LOT 2

Onsite System Location

Address (no rural route) 1677 N 173rd St Sagebrook Estates City Lincoln

Owner _____ Address _____

Mark One: ❑ Dwelling ❑ Non-dwelling

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

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

Drainfield Absorption System:

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

Total square feet of drainfield ~~1665~~ 1665 Sq. Ft. Tank Size 2 (1000) gals

Total length of laterals 370' Type of Distribution: ❑ Chamber ❑ Perforated Pipe X Other (describe) Easy flow

No. of Absorption Laterals 4 Width 36" No. of Drop Boxes — Distribution Box 4

Leveling Method Used Electronic

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

Distance From	Private Well	Public Well	Surface Water	Ground water	Pressure Water Lines	Property Lines
Tank (ft)	50 X	500 X	50 X	NA X	10 X	5 X
Field (ft)	100 X	500 X	50 X	4 X	25 X	5 X

Geographical Coordinates to 6 Decimals:

Tank _____

Lateral #1 _____ Lateral #3 _____

Lateral #2 _____ Lateral #4 _____

Comments:

Inspections prior to Final Approval
Initial _____ Date _____

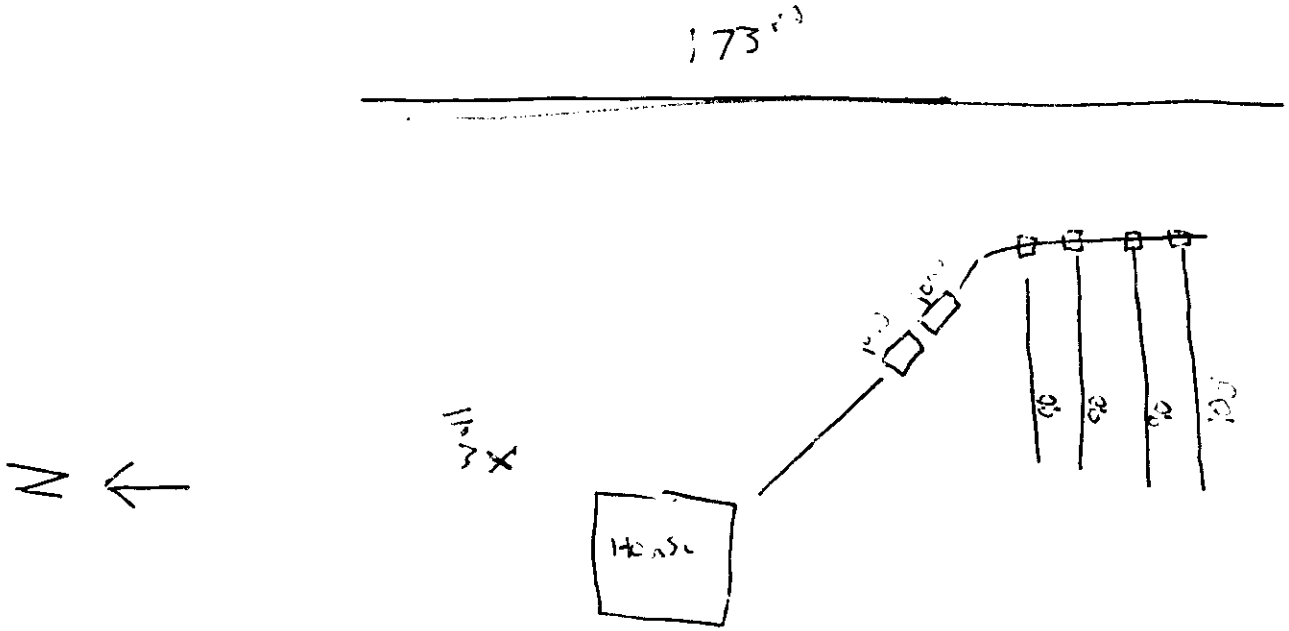
Follow-Up _____ Date _____

Follow-Up _____ Date _____

Installation Final Written Approval
By [signature]

Date 3/1/16

Field Note Drawing (See Reverse Side):


N

AUG 13 2015

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

A

Permit Number
HS001118

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 1677 N 173rd St (no rural route) City Lincoln NE Zip 68527

Legal Description: SE (1/4) 14 (1/4 Section) 10N (Township) 8E (Range) Sagebrook Estates (Subdivison) 1 (Addition) 2 (Block) (Lot)

PID 23-14-401-002-000

B. Owner

Name Michael & Kaylee Haman Signature Michael Haman Kaylee Haman

Address 2801 S 41st St City/State/Zip Lincoln, NE 68506

Home Phone (402)802-7553/(402)984-6187 Work Phone Same

C. Certified Installer

Name Lloyd Jakoubek, Raymond Contracting Inc Signature Lloyd Jakoubek

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

Work Phone 402-890-6009 or 402-783-2663

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 5 Whirlpool Bathtub? ☐ Yes ☐ No Total Acres 3.37

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 8/18/15
Date frwd 8/18/15
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 3/14/16

Business Office Use Only
Date Received 8-14-15 Amount Paid $375.00
Received By SB Cash/Check No. 8712

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

Form 3 Updated

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

B

Permit Number:

Onsite Wastewater Treatment System

Soil Evaluation Report

PLEASE PRINT OR TYPE

Onsite System Location

Address N 173rd St (no rural route) City Lincoln NE, Zip 68527

Owner Michael & Kaylee Haman Address 2801 S 41st St, Lincoln, NE 68506

Date of Tests 7/30/15 to 7/31/15 Weather: Precipitation 0 Temperature 80°

Percolation Test Data Table (1) failed

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			End				
Hole No.	Hole Depth (in)	Date (Mo/Da)	Time (Hr/Min)	Date (Mo/Da)	Time (Hr/Min)	Date (Mo/Da)	Time (Hr/Min)	Initial Water Lev (in.)	Date (Mo/Da)	Time (Hr/Min)	Elapsed Time Interval	Water Level Drop (in)	Percolation Rates (Min/in = mpi)
1	20	7/30	3:00p	7/30	7:00p	7/31	9:30a	6	7/31	10:00a	30	0	—
2	36	"	"	"	"	"	"	6	"	"	"	0	—
3	24	"	"	"	"	"	"	6	"	"	"	0	—
								6					
								6					
								6					
								6					
								6					

Person Conducting Percolation Test

Name: Terri L Jakoubek, Raymond Contracting, Inc.
Phone: 402-783-2663 or 402-890-6009
Address 13800 NW 70th St
Raymond, NE 68428 Cert #1198

Sum of Percolation Rates: Failed
Average of Rates: Failed
Rate Used for Calculation: Failed

Soil type (NRCS Maps/Other) Pawnee Clay Loam
Groundwater Depth >8'

DO NOT WRITE BELOW THIS LINE

Reviewing Action

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

Signature of Reviewing Official _____ Date _____

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

B

Permit Number:

Onsite Wastewater Treatment System

Soil Evaluation Report

PLEASE PRINT OR TYPE

Onsite System Location

Address 1677 N 173rd St (no rural route) City Lincoln NE, Zip 68527

Owner Michael & Kaylee Haman Address 2801 S 41st St, Lincoln, NE 68506

Date of Tests 8/31/15 to 9/1/15 Weather: Precipitation 0 Temperature 87°

Percolation Test Data Table (2) used for sizing

A.	B.	C.	D.	E.	F.	G.	H.	I.	J.	K.	L.	M.	N.
		Saturation/Swelling Time				Water Level Drop Last 30 mins of 4 hr or last 10 mins of 1 hr					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)	Initial Water Lev (in.)	Date (Mo/Da)	Time (Hr/Min)	Elapsed Time Interval	Water Level Drop (in)	Percolation Rates (Min/in = mpi)
1	21	8/31	4:00p	8/31	8:00p	9/1	5:45p	6	9/1	6:15p	30	1-1/2	20
2	25	"	"	"	"	"	"	6	"	"	"	1-7/8	16
3	28	"	"	"	"	"	"	6	"	"	"	5/8	48
4	26	"	"	"	"	"	"	6	"	"	"	3/4	40
								6					
								6					
								6					
								6					

Person Conducting Percolation Test

Name: Terri L Jakoubek, Raymond Contracting, Inc.
Phone: 402-783-2663 or 402-890-6009
Address 13800 NW 70th St
Raymond, NE 68428 Cert #1198

Sum of Percolation Rates: 124
Average of Rates: 31
Rate Used for Calculation: 48 (20 mpi variance)

Soil type (NRCS Maps/Other) Aksarben Silty Clay Loam
Groundwater Depth >7'

DO NOT WRITE BELOW THIS LINE

Reviewing Action

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

Signature of Reviewing Official Date

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

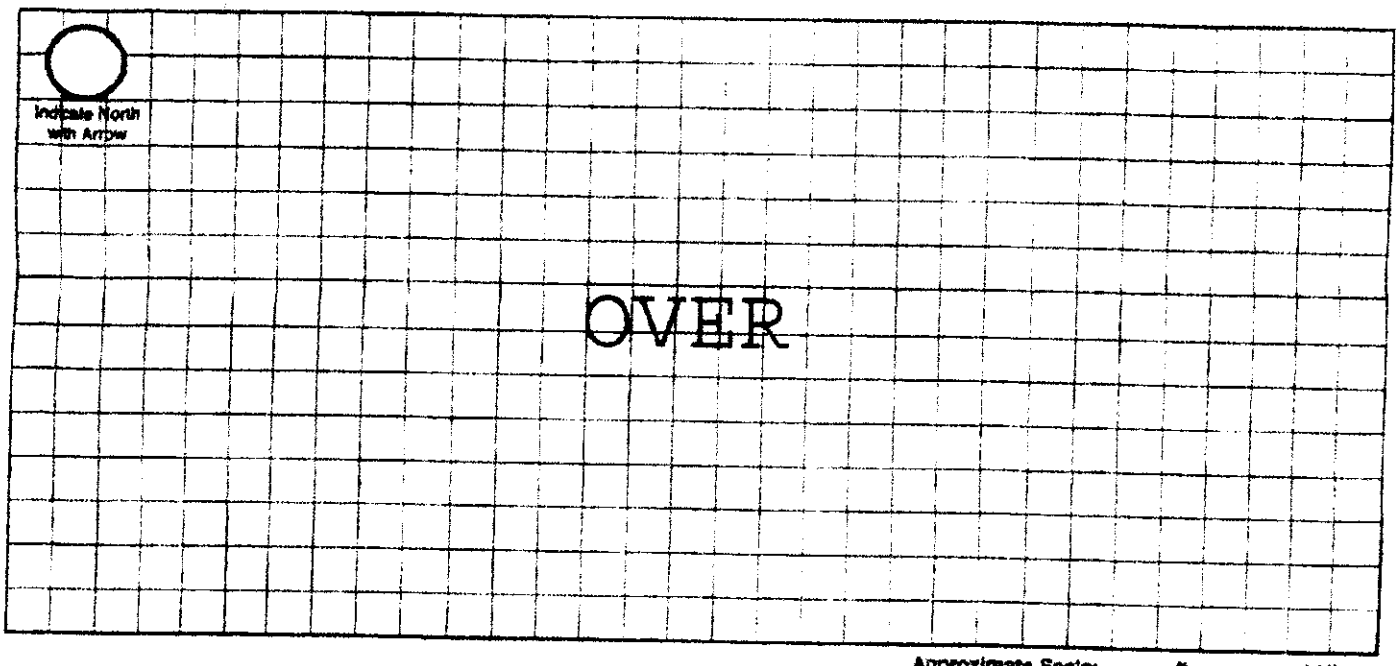
C

Permit Number: HS001118

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 line/s

A. Onsite System Location

Address (no rural route) N 173rd St City Lincoln NE, Zip 68527

B. Proposed Septic Tank/s

Septic Tank Cap._____ 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_____ (min/inch = mpi) No. of Bedrooms_____ Soil Type _____ Land Slope_____%

☐ Trench ☐ Bed ☐ Non-Standard (engineer designed and NDEQ approved Total Square feet of drainfield_____sq.ft

Total length of laterals_____ Type of distribution: ☐ Perforated pipe ☐ Half-Round ☐ Chamber ☐ Other

No. of absorption trenches_____ Width_____ No. of drop boxes_____ Distribution 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

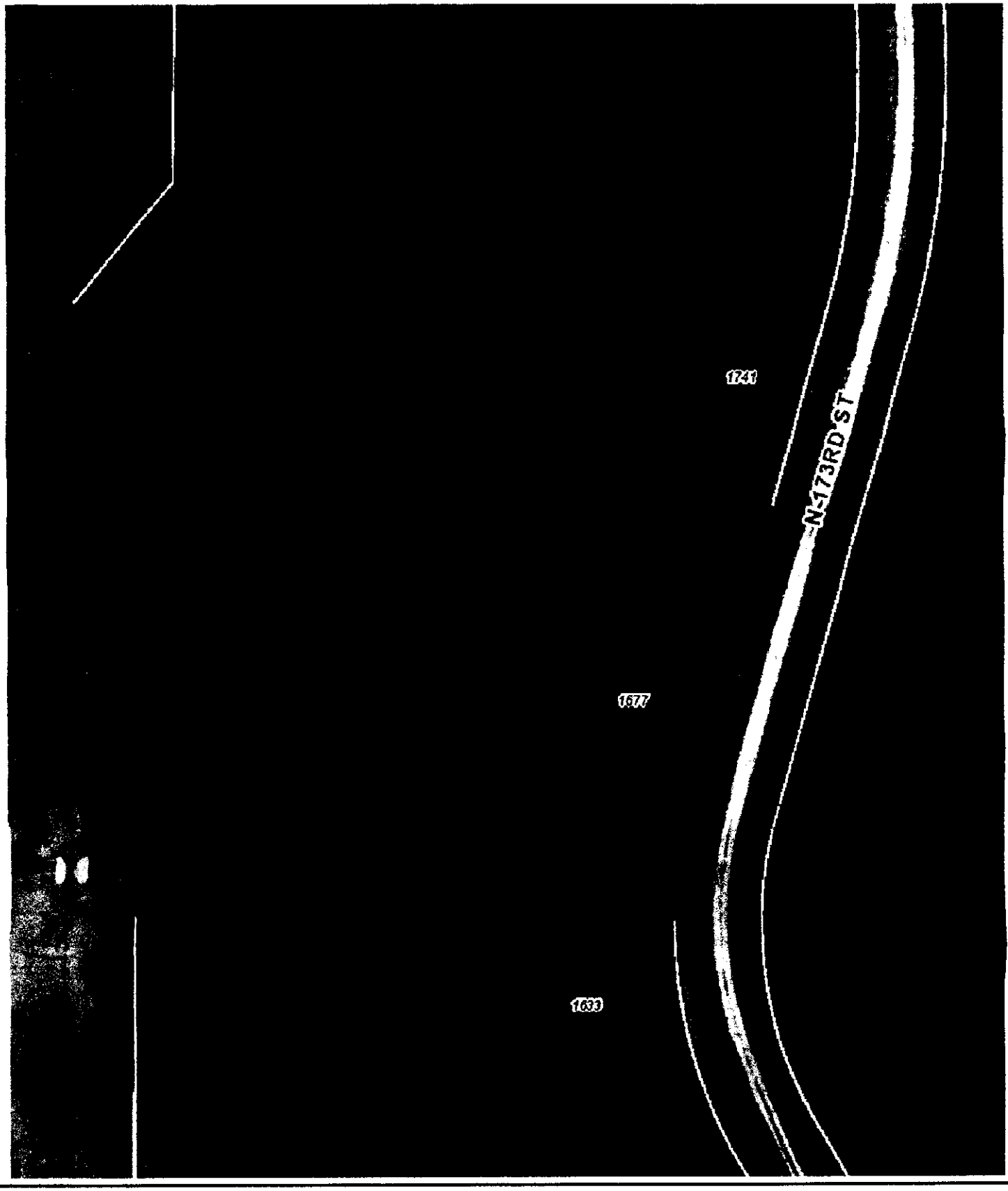
Distance From	Private Well	Public Well	Surface Water	Gound Water	Pressure Water Lines	Property Lines	Foundations Yours	Foundations Neighbors	All Other Setbacks
Tank (ft)	50 ☐	500 ☐	50 ☐	NA ☐	25 ☐	20 ☐	15 ☐	25 ☐	☐
Field (ft)	100 ☐	500 ☐	50 ☐	4 ☐	30 ☐	20 ☐	30 ☐	40 ☐	☐
Lagoon (ft)	100 ☒	500 ☒	50 ☒	N/A ☒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

F. Required Signatures

Home Building Contractor Roger Baumgarten Date 8-10-15

Installer _____ Date 8/11/15

Onsite Form C 12-08



Lancaster County/City of Lincoln GIS Map

N
W E
S

Printed: Aug 03, 2015

DISCLAIMER: The information is presented on a best-efforts 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
3140 N Street • Lincoln NE 68510-1514
Phone: 402-441-8643

D Exhibit 4

Permit Number: HS001118

Onsite Wastewater Treatment System
As-Built Description and Drawing

Type of Onsite Wastewater System: ☐ Lagoon (Skip to Back Page) ☒ Subsurface Septic ☐ Mound

Onsite Wastewater System Location 23-14-401-602-000

Address or Legal Description or Parcel Identification Number (PID) 1677 N. 173rd St, Lincoln, NE 68527

Owner: Michael + Kaylee Hanson Address 2801 S. 41st St Lincoln, NE 68506

A. Wastewater Piping

1. Material: SDR26 Diameter: 4 in.
2. Distance between dwelling and septic tank: 87' ft.

B. Septic Tank

1. Material Plastic
2. Capacity: 2- 1000 g.
3. Depth to top of tank, below unfinished grade: 15" in.
4. Distance to:
   Well 100+ ft.
   Pressure line 100+ ft
   Property Line 30'+ ft.
   Foundation 70+ ft.

C Distribution Box or Drop Box

Distance **and** Direction from septic tank: 14' ft. SE.

D. Drainfield/Absorption Field

☒ Trench ☐ Bed

1. Type: ☐ Perforated Pipe ☐ Chamberless ☒ Other
   Material brand and inside width of Chamberless: EZ Flow
2. Number of Laterals: 370
3. Length of each lateral (linear): ft. 90 ft. 90 ft. 90 ft. 100
4. Drainfield size: 1650 sq. ft.
5. Distance to:
   Well 100 ft.
   Pressure line 100 ft.
   Property line 10' ft.
   Depth of Groundwater 10'

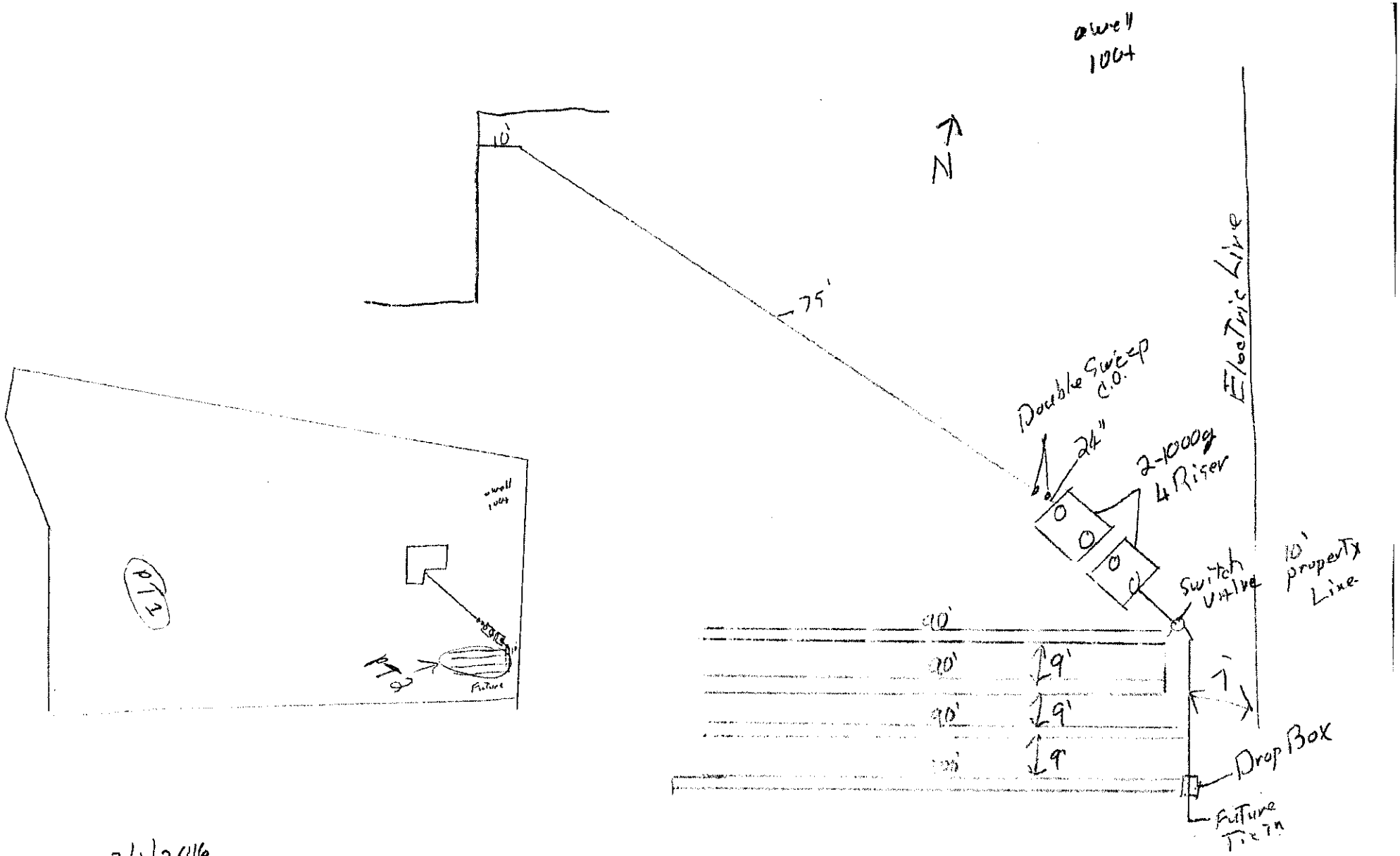
Was the Onsite Wastewater System covered prior to LLCHD inspection? ☒ Yes ☐ No partially

If Yes, the Certified Professional must sign below for final approval:

I swear and affirm that the system complies with Lincoln Municipal Code (LMC) 24.38 and/or County Resolution R-13-0062 requirements and that the information and documentation submitted are true and accurate.

Certified Professional Signature: Ryan L. Jahnke Date: 3/1/2016

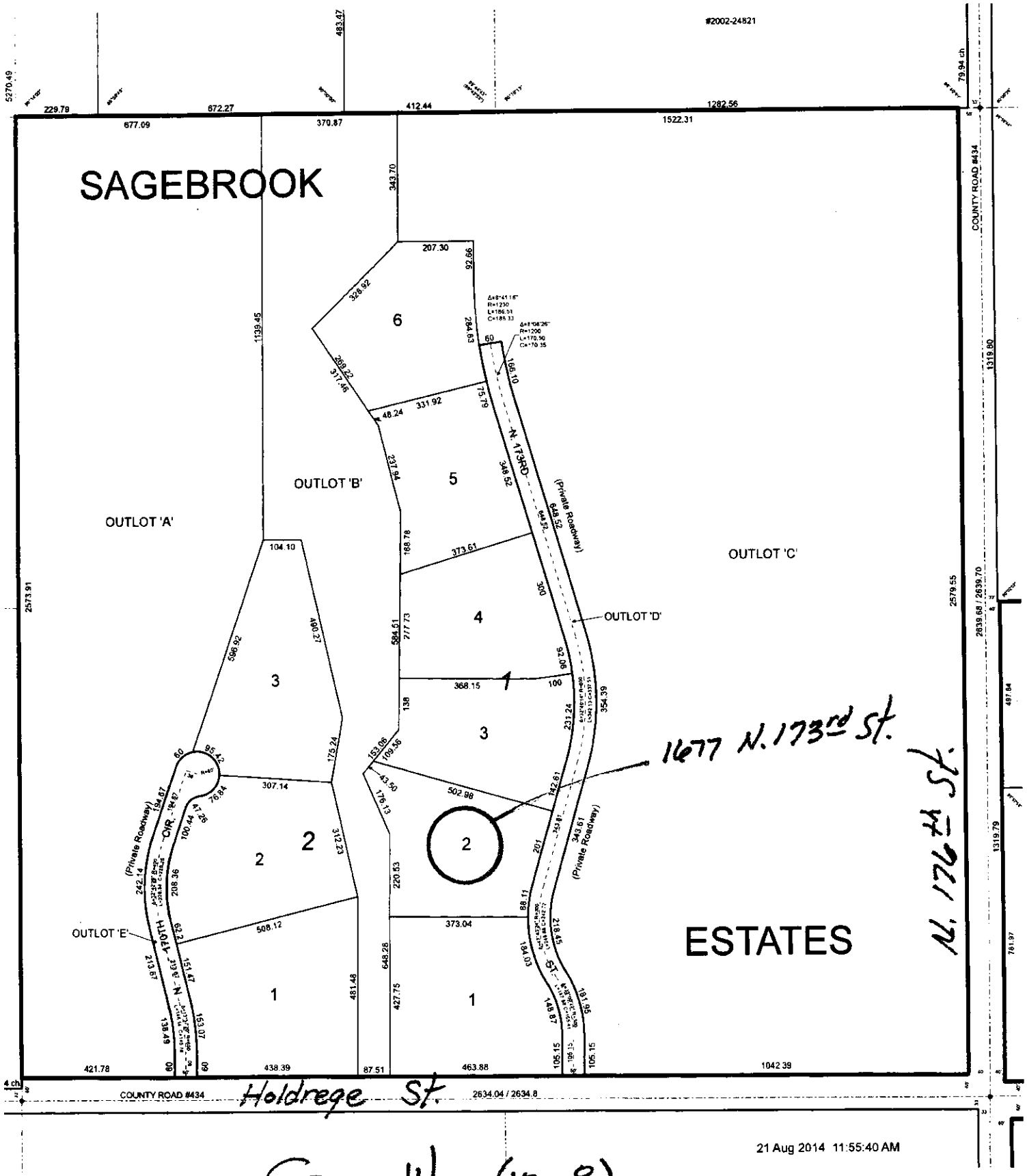
Complete As-Built drawing on the back of this form.



3/1/2016

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

Future use


#2002-24821
SAGEBROOK
ESTATES
OUTLOT 'A'
OUTLOT 'B'
OUTLOT 'C'
OUTLOT 'D'
OUTLOT 'E'
1
2
3
4
5
6
(Private Roadway)
N. 173RD ST.
N. 176TH CIR.
COUNTY ROAD #434
Holdrege St.
1677 N. 173rd St.
N. 176th St.
2634.04 / 2634.8
2639.68 / 2639.70
21 Aug 2014 11:55:40 AM

Sec. 14 (10-8)

Nate C. Hartman

From: Todd A. Stutzman
Sent: Tuesday, August 18, 2015 9:58 AM
To: Nate C. Hartman
Subject: Sagebrook Estates

Nate,

The lot located in Sagebrook Estates Block 1 Lot 2 is a buildable lot.

Todd

Nate C. Hartman

From: Ken D. Schroeder
Sent: Monday, August 17, 2015 2:35 PM
To: Nate C. Hartman
Cc: Pamela L. Dingman
Subject: sewage disposal system for PID #23 14 401 002 000
Attachments: part of sec 14-10-8.pdf

Nate,
Lancaster County Engineering Department indicates approval for a sewage disposal system for lot 2, Block 1, "SAGEBROOK ESTATES" located in the SE 1/4 of fraction Section 14, T10N, R8E of the 6th P.M., Lancaster County, Nebraska. *(see attached part of sec 14-10-8)*
As always, subject to confirmation of and compliance with any floodplain elevation requirements prior to construction.
Ken

Kenneth D. Schroeder, RLS
Lancaster County Surveyor
444 Cherrycreek Road, Bldg. "C"
Lincoln, Nebraska 68528
kschroeder@lancaster.ne.gov
Phone (402) 441-7681
Fax (402) 441-8692