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

MAY 23 2014

A

Permit Number
HS 000902

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 5601 Agnew Rd (no rural route) City Ceresco, NE Zip 68017

Legal Description NW 1/4 1/4 Section 16 Township 12N Range 7E Subdivison _____ Addition _____ Block _____ Lot 28

PID 19-16-100-004-000

B. Owner

Name Anthony & Christina Fisher Signature Anthony C. Fisher Christina M Fisher

Address 5601 Agnew Rd City/State/Zip Ceresco, NE 68017

Home Phone 402-785-2031 Work Phone _____

C. Certified Installer

Name: Lloyd Jakaubek, Raymond Contracting Signature Lloyd Jakaubek 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 3 Whirlpool Bathtub? ☐ Yes ☒ No Total Acres 0.61

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 _____ Date rec'd _____ ACTION ☐ Approved ☐ Disapproved
Date frwd _____ Signature _____
Comments _____

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

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

Installation Final Written Approval
By _____
Date _____

Business Office Use Only
Date Received 5/27/14 Amount Paid 365.00
Received By SB Cash/Check No. 8382

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

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

B

Permit Number: HS000902

Onsite Wastewater Treatment System
Soil Evaluation Report

PLEASE PRINT OR TYPE

Onsite System Location

Address 5601 Agnew Rd (no rural route) City Ceresco NE, Zip 68017

Owner Tony & Christina Fisher Address Same

Date of Tests 5/4/2014 to 5/5/2014 Weather: Precipitation 0 Temperature 71°

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	25	5/4	4:00p	5/4	8:00p	5/5	3:30p	6	5/5	4:00p	30	1 3/8	22
2	29	"	"	"	"	"	"	6	"	"	"	2 3/8	13
3	26	"	"	"	"	"	"	6	"	"	"	2	15
								6					
								6					
								6					
								6					
								6					

Person Conducting Percolation Test

Name: Terri L. Jakoubek # 1198
Phone: 402-890-3870
Address 13800 NW 70th St
Raymond, NE 68428

Soil type (NRCS Maps/Other) Silt loam

Groundwater Depth 6'

Sum of Percolation Rates: 50
Average of Rates: 17
Rate Used for Calculation: 17

DO NOT WRITE BELOW THIS LINE

Reviewing Action

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

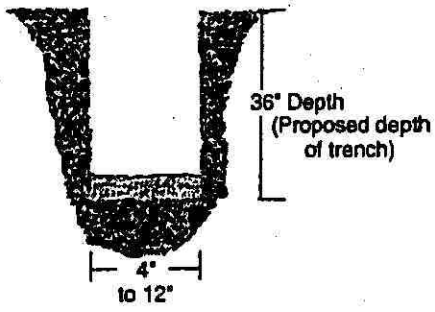
Signature of Reviewing Official _____ Date _____

READ THOROUGHLY

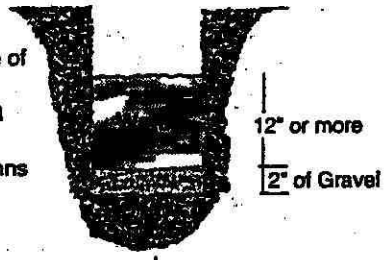
DIAGRAM OF PERCOLATION TEST PROCEDURE

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.

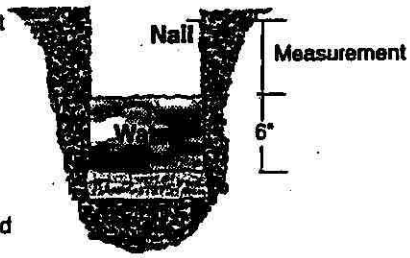


II. Saturation of Soil (Pre-soak)
   - A. Fill hole with 12" or more of water.
   - B. MAINTAIN THIS WATER LEVEL FOR 4 HOURS.
   - C. Record on Form B columns a thru f.



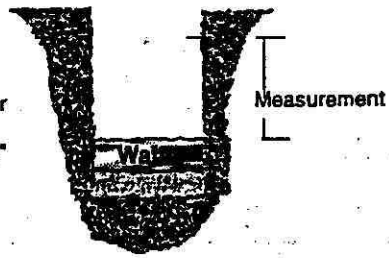
24 Hours Later

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

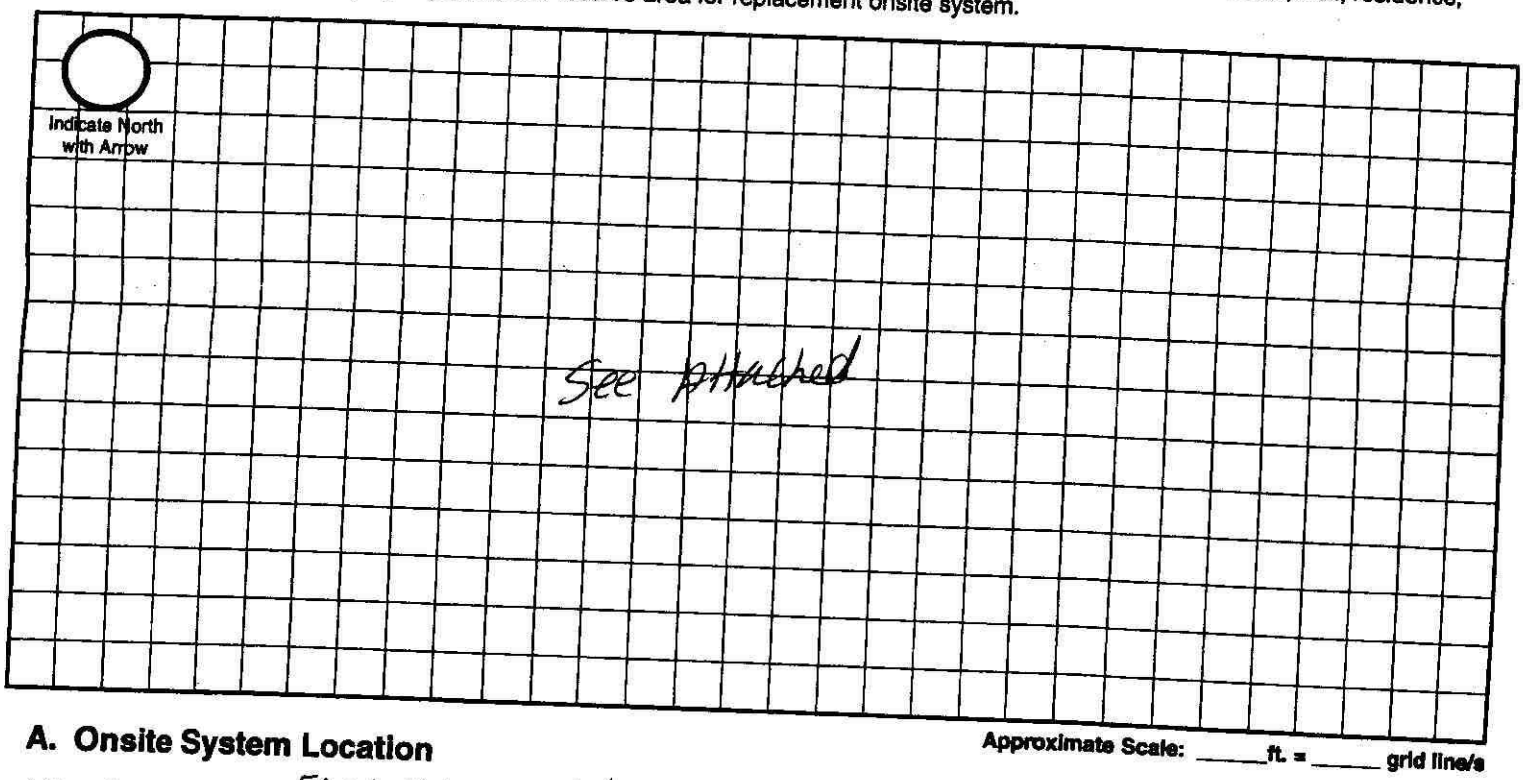
C

Permit Number: HS000902

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) 5601 Agnew Rd City Ceresco NE, Zip 68017

B. Proposed Septic Tank/s

Septic Tank Cap. 1,500 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 17 (min/inch = mpi) No. of Bedrooms 3 Soil Type Silt loam Land Slope_____%

☒ Trench ☐ Bed ☐ Non-Standard (engineer designed and NDEQ approved Total Square feet of drainfield 1040 sq.ft.

Total length of laterals 160 Type of distribution: ☐ Perforated pipe ☐ Half-Round ☒ Chamber ☐ Other

No. of absorption trenches 2 Width 40" No. of drop boxes 3 Distrubtion Box_____

No. of absorption beds_____ Width_____ No of Distribution lines per bed end caps

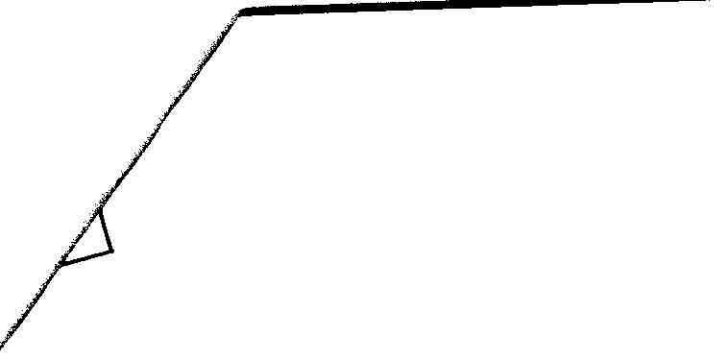
E. Setbacks Check the Boxes Below if the Required Setback has been Satisfied

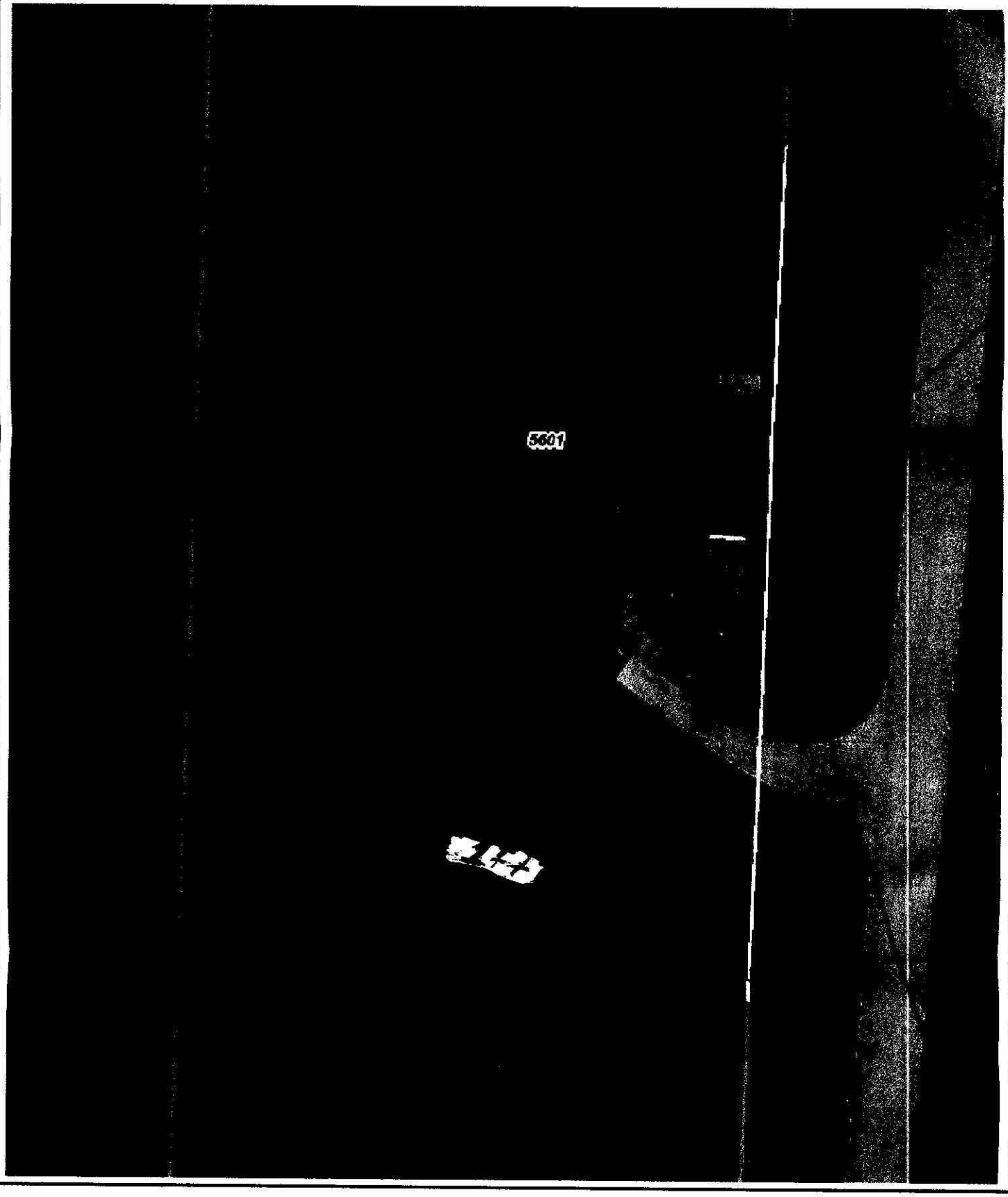
Distance From	Private Well	Public Well	Surface Water	Gound Water	Pressure Water Lines	Property Lines	Foundations Yours	Foundations Neighbors	All Other Setbacks
Tank (ft)	50 ☑	500 ☑	50 ☑	NA ☑	25 ☑	20 ☑	15 ☑	25 ☑	☑
Field (ft)	100 ☑	500 ☑	50 ☑	4 ☑	30 ☑	20 ☐	30 ☑	40 ☑	☐
Lagoon (ft)	100 ☐	500 ☐	50 ☐	N/A ☐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

F. Required Signatures

Home Building Contractor existing home Date 5/9/2014

Installer Kurt L. Johnson Date 5/11/2014





Lancaster County/City of Lincoln GIS Map

N
W E
S

Tony & Christina Fisher 5601 Agnew Rd, Ceresco, NE 68017 402-785-2031

Printed: May 20, 2014

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 (402) 441-8027
3140 N Street Lincoln, Nebraska 68510-1514

ON-SITE WASTE WATER SYSTEM
CONSTRUCTION - INSTALLATION PERMIT
No. HS000902

System Type: Standard

Situs: 5601 AGNEW RD, RURAL, NE

Issued: 5/27/2014

Expires: 5/27/2015

Description: S16, T12, R7, 6th Principal Meridian, LOT 28 NW

Owner: FISHER, ANTHONY C & CHRISTINA
5601 AGNEW RD
CERESCO, NE 68017

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

SCANNED

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

MAY 23 2014

A

Permit Number
HS 000902

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 5601 Agnew Rd (no rural route) City Ceresco, NE Zip 68017

Legal Description NW 1/4 1/4 Section 11 Township 12N Range 7E Subdivison _____ Addition _____ Block _____ Lot 28

PID 19-16-100-004-000

B. Owner

Name Anthony & Christina Fisher Signature Anthony C. Fisher Christina M Fisher

Address 5601 Agnew Rd City/State/Zip Ceresco, NE 68017

Home Phone 402-785-2031 Work Phone _____

C. Certified Installer

Name: Lloyd Jakubek, Raymond Contracting Signature Kevin L Jakubek 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 3 Whirlpool Bathtub? ☐ Yes ☒ No Total Acres 0.61

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 _____ Date rec'd 5/27/14

Date frwd 5/27/14

Comments _____

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 6/23/14

Business Office Use Only

Date Received 5/27/14 Amount Paid 365.00

Received By SB Cash/Check No. 8382

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

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

JUN 26 2014

D

Permit Number: HS000902

Onsite Wastewater Treatment System

As Built Plans & Specifications

Date June 20, 2014 Legal Description NW 1/4 1/4 11e-12N-7E Section Township Range Lot 28

Onsite System Location

Address (no rural route) 5601 Agnew Rd City Ceresco NE, Zip 68017

Owner Anthony & Christina Fisher Address Same

A. Sewer Pipe

1. Material: old Line.
   Diameter: 4 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 50 ft.
   stream 50+ ft.
   pressure line 50+ ft.
   property line 50 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 48-36 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: _____ in.
8. Distances to: Well or suction line 50+ ft.
   Stream 50+ ft.
   Pressure line 50+ ft.
   Property line 50+ ft.

C. ☐ Distribution Box ☑ Drop Boxes

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

1. Material: 2 Header pipe. 2 Drop Boxes
   Number available outlets: 2 per Box
2. Factory built: ☑ Yes ☐ No
3. Distance from septic tank: 14 + 12 + 9 + 10 ft.

D. Drainfield Absorption

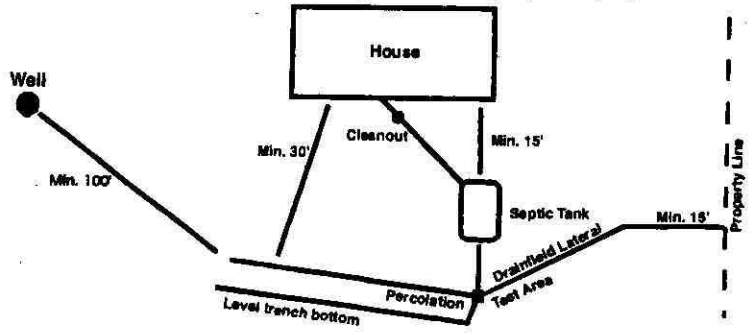
☐ Trench ☐ Bed ☐ Level Bottom

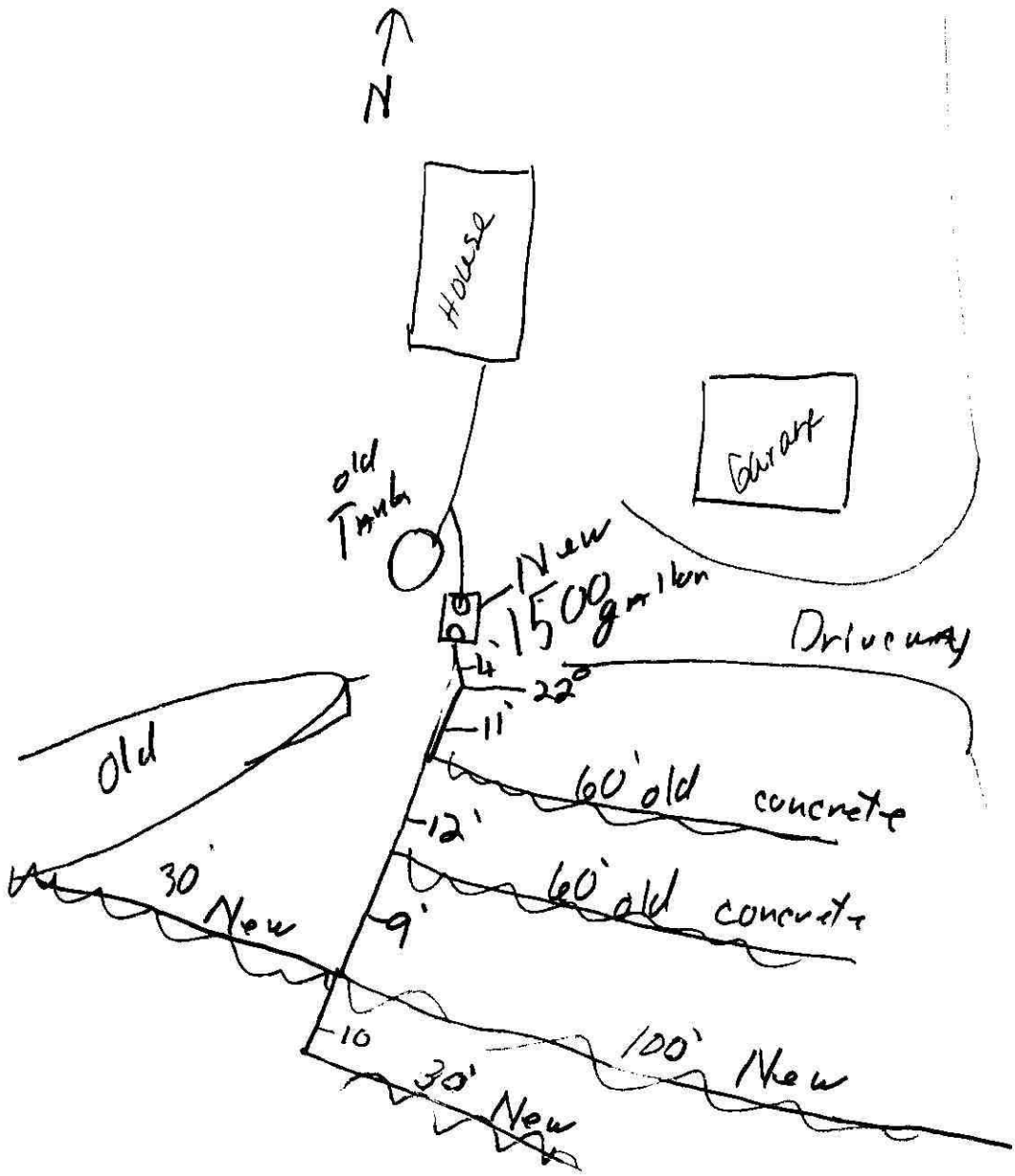
1. Type: ☐ Half rounds ☐ Perforated pipe ☐ Chambers
   Diameter or width: _____
   Number of distribution lines in bed _____
   Material: ☐ fiberglass ☐ plastic ☐ concrete
   ☐ other _____
2. Drainfield Laterals: Number 4
   Length of each line: old 60 ft. old 60 ft.
   130 ft. 30 ft., _____ ft.
3. Drainfield dimensions: Width 40" ft.
   Distribution Pipe Slope Flat in/100 ft.
   Average depth 20-24 in
4. Filter material: Soil
   Depth of material 20-24 in.
5. Distances to: Well or suction line 50+ ft.
   Pressure line 50+ ft.
   Property line 50+ ft.
   House or building 50+ ft.
   Lake or Stream 50+ ft.

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

Onsite Wastewater System Design (Example)

Indicate North with Arrow





June 20, 2014

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

SCANNED



Lancaster County/City of Lincoln GIS Map

Tony & Christina Fisher 5601 Agnew Rd, Ceresco, NE 68017 402-785-2031

N
W E
S

Printed: May 20, 2014

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.