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

A

Permit Number
HSOC1005

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 6233 Bass Creek Rd. (no rural route) City Hickman, NE Zip 68372

Legal Description L.C. NE. Poe Estates, 2 8
1/4 1/4 Section Township Range Subdivison Addition Block Lot

PID 14042020080000 SB

B. Owner

Name Jerry Hohenfeldt Signature

Address 6233 Bass Creek Rd City/State/Zip Hickman NE.

Home Phone 402-304-7687 Work Phone

C. Certified Installer

Name: Larry Rollc Signature Larry Rollc

Address Tecumseh, NE City/State/Zip Tecumseh, NE 68450

Work Phone 402-335-3406

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 3.1
Garbage Grinder? ☒ Yes ☐ No

☐ Commercial Establishment/Other Facility Specify Design flow in gallons per day 225

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 12-11-14 Amount Paid $375.00
Received By SB Cash/Check No. 1010

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: HSO 01005

Onsite Wastewater Treatment System

Soil Evaluation Report

PLEASE PRINT OR TYPE

Onsite System Location

Address 6233 Bass Creek Rd. (no rural route) City Hickman NE, Zip 68372

Owner Jerry Hohenfeldt Address 6233 Bass Creek Rd., Hickman, NE 68372

Date of Tests _____ to _____ Weather: Precipitation _____ Temperature _____

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)
								6					
								6					
								6					
								6					
								6					
								6					
								6					
								6					

Person Conducting Percolation Test

Name: _____

Phone: _____

Address _____

_____

Sum of Percolation Rates: _____

Average of Rates: _____

Rate Used for Calculation: _____

Soil type (NRCS Maps/Other) _____

Groundwater Depth _____

DO NOT WRITE BELOW THIS LINE

Reviewing Action

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

_____

_____

_____

_____

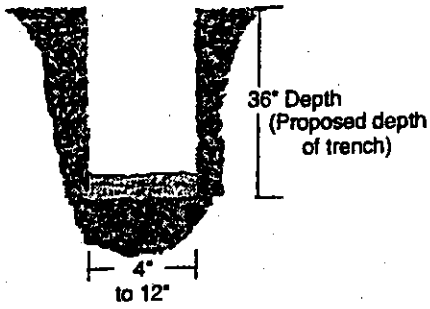
Signature of Reviewing Official _____ Date _____

READ THOROUGHLY

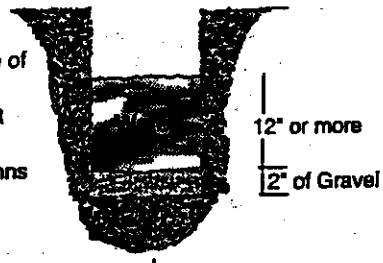
DIAGRAM OF PERCOLATION TEST PROCEDURE

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.

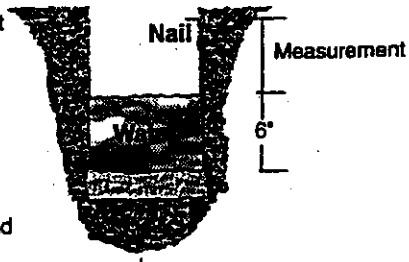


II. Saturation of Soil (Pre-soak)
   - A. Fill hole with 12" or more of water.
   - B. MAINTAIN THIS WATER LEVEL FOR 4 HOURS.
   - C. Record on Form B columns a thru f.



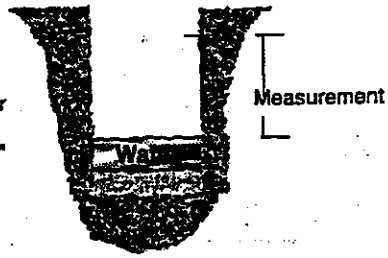
24 Hours Later

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

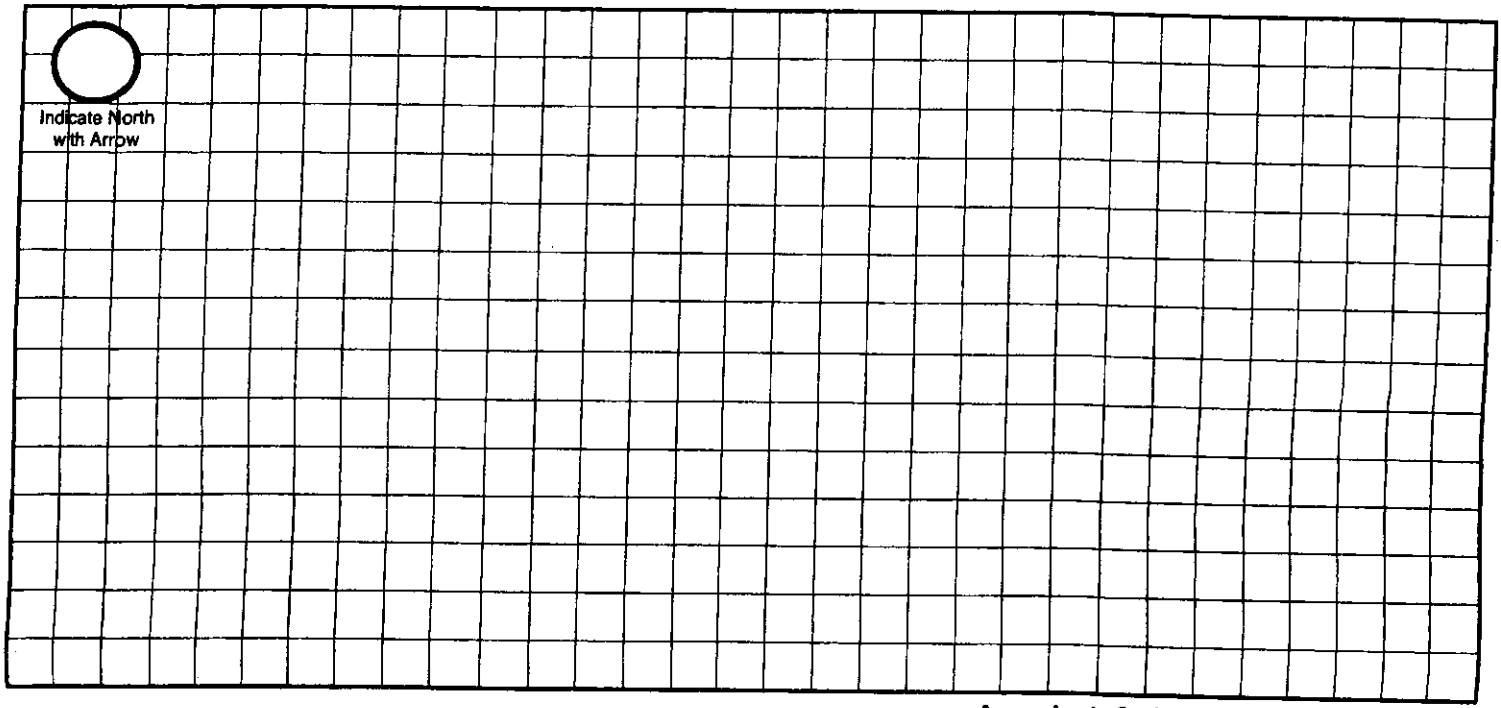
C

Permit Number: HS001005

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) _____ City _____ NE, Zip _____

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 (percoloation 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_____ 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 _____

Installer _____ Date _____

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

D

Permit Number: HS001005

Onsite Wastewater Treatment System

As Built Plans & Specifications

Date 12-9-14 Legal Description ____ 1/4 ____ 1/4 Lot 8 & 82, POE ESTATES, LCN. Section Township Range

Onsite System Location

Address (no rural route) 6233 Bass Creek Rd City Hickman NE, Zip 68372

Owner Jerry Hohnstadt Address 6233 Bass Creek Rd, Hickman, N.

A. Sewer Pipe

1. Material: PVC
   Diameter: 4" in.
2. Distance above basement floor: ____ in.
   or distance below basement floor: 8 in.
3. Distance between dwelling and septic tank: ____ ft.
4. Number of clean-outs: 6
5. Distances to: well or suction line 300' TO LAGOON ft.
   stream ____ ft.
   pressure line 300' TO LAGOON ft.
   property line 50' ft.

B. Septic Tank

☐ Label with Manufacturer, address and gallon capacity

1. Material: ____
   Number of compartments: ____
2. Capacity: ____ gal.
3. Factory built: ☐ Yes ☐ No
4. Manholes: Over inlet, diameter ____ in.
   Over outlet, diameter ____ in.
   Riser: ☐ above ☐ below grade ____ 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 ____ ft.
   Stream ____ ft.
   Pressure line ____ ft.
   Property line ____ ft.

C. ☐ Distribution Box ☐ Drop Boxes

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

1. Material: ____
   Number available outlets: ____
2. Factory built: ☐ Yes ☐ No
3. Distance from septic tank: ____ ft.

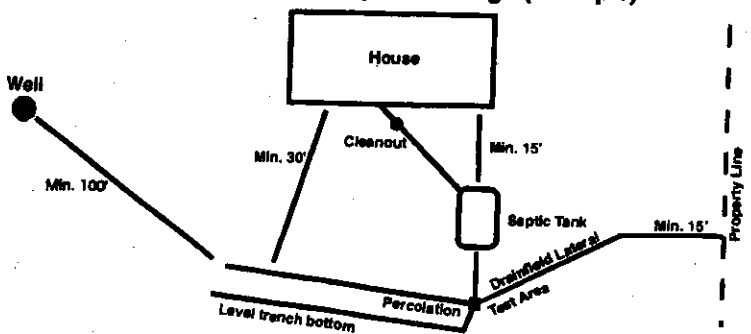
D. Drainfield Absorption

☐ 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 ____
   Length of each line: ____ ft. ____ ft.
   ____ ft. ____ ft., ____ ft.
3. Drainfield dimensions: Width ____ ft.
   Distribution Pipe Slope ____ in/100 ft.
   Average depth ____ in
4. Filter material: ____
   Depth of material ____ in.
5. Distances to: Well or suction line ____ ft.
   Pressure line ____ ft.
   Property line ____ ft.
   House or building ____ ft.
   Lake or Stream ____ ft.

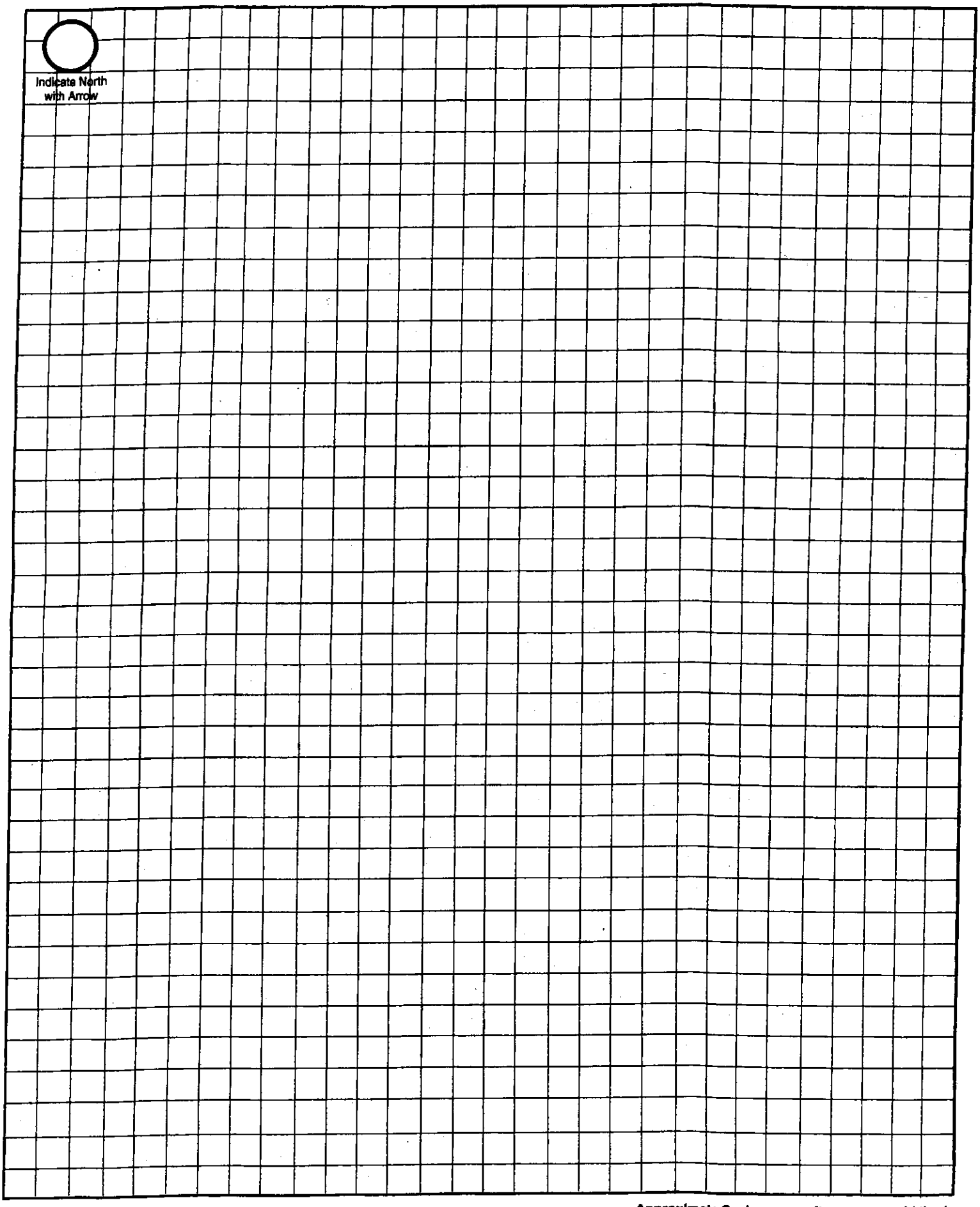
Complete As-Built drawing on the back fo this form.

Onsite Wastewater System Design (Example)



dicate North with Arrow

As Built Drawing

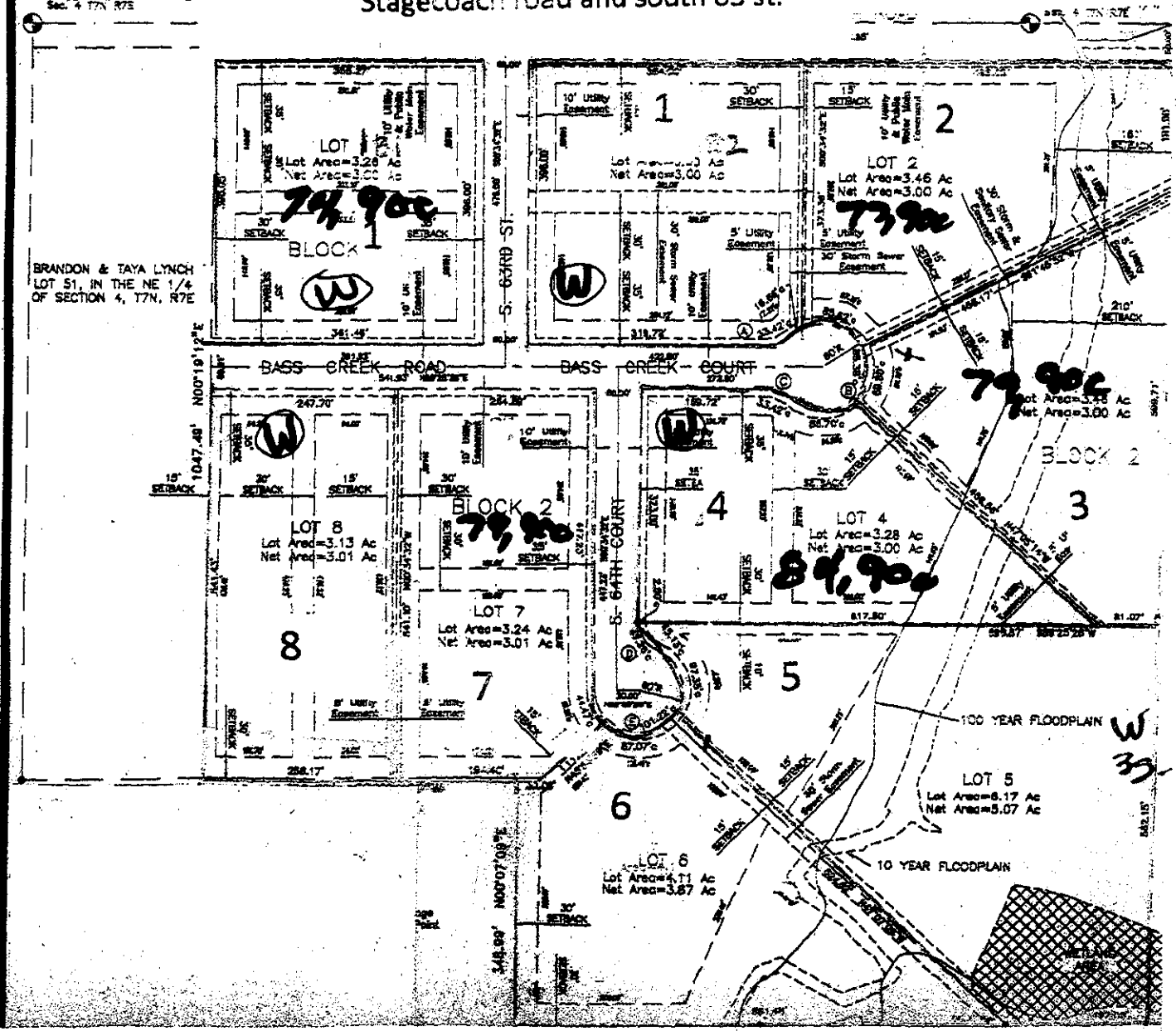


Approximate Scale: _____ ft. = _____ grid line/s

Poe Estates Lot Map

3 + acre home sites

Stagecoach road and south 63 st.



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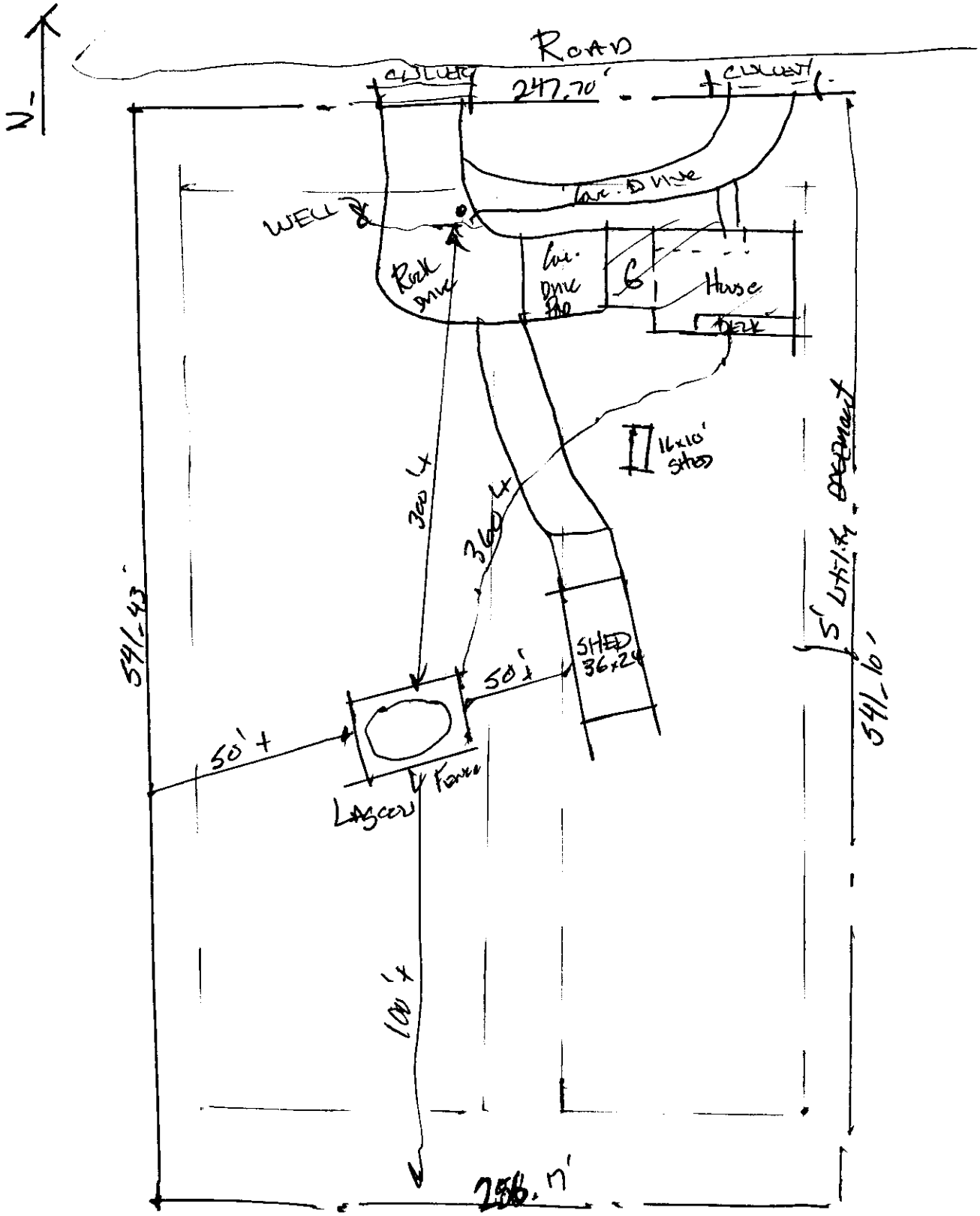
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SITE PLAN

: 6233 Bass Creek Rd
Hickman, NE. 68372

Legal: Lot 8, Poe ESTATES
3.01 NET Acres



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

A

Permit Number

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 6233 Bass Creek ct. (no rural route) City Hickman, NE Zip 68372

Legal Description Lot 8 Block 2 Pee Estates

1/4 | 1/4 | Section | Township | Range | Subdivison | Addition | Block | Lot

PID

B. Owner

Name Jerry Holtenfeldt Signature Jerry Holtenfeldt

Address 6233 Bass Creek ct. City/State/Zip Hickman Ne. 68372

Home Phone 304-7657 Work Phone

C. Certified Installer

Name: Gary Kuhl Signature Gary Kuhl

Address 12564 625 Av City/State/Zip Elk Creek, Ne 68348

Work Phone 402-335-3406

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 3+

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 Amount Paid

Received By Cash/Check No.

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

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. HS001005

System Type: Lagoon

Situs: 6233 BASS CREEK RD, RURAL, NE

Issued: 12/18/2014

Expires: 12/18/2015

Description: POE ESTATES, BLOCK 2, Lot 8

Owner: HOHENFELDT, JERRY L & MARY F
3535 S 75 ST
LINCOLN, NE 68516

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

MICHAEL POE
6400 BASS CREEK CT
HICKMAN, NE 68372

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

A

Permit Number
HS001005

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)

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PLEASE PRINT OR TYPE

A. Onsite System Location

Address 6233 Bass Creek ct. (no rural route) City Hickman, NE Zip 68372

Legal Description Lot 8, Block 2, PEE ESTATES

1/4 1/4 Section Township Range Subdivison Addition Block Lot

PID

B. Owner

Name Jerry Holtenfeldt Signature Jerry Holtenfeldt

Address 6233 Bass Creek ct. City/State/Zip Hickman Ne. 68372

Home Phone 304-7697 Work Phone

C. Certified Installer

Name: Gary Kuhl Signature Gary Kuhl

Address 72564 625 Av City/State/Zip Elk Creek, Ne 68348

Work Phone 402-335-3406

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 3+

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 12/18/14

Date frwd 12/18/14

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 12/19/14

Business Office Use Only

Date Received 12-11-14 Amount Paid $375.00

Received By SB Cash/Check No. 1010

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