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. HS000766

System Type: Lagoon

Situs: 5300 S FOLSOM ST, RURAL, NE

Issued: 6/18/2013

Expires: 6/18/2014

Description: S10, T9, R6, 6th Principal Meridian, LOTS 47 & 49 E1/2

Owner: STAR CITY YOUTH FOUNDATION
301 EASTRIDGE DR
LINCOLN, NE 68510

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
RAYMOND, NE 68428

SCANNED

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

A

Permit Number
HS 000766

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 5300 S. Folsom St. (no rural route) City Lincoln, NE Zip 68523

Legal Description E ½ Sec. 10 T9N R6E Lots 47 & 49

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

PID 09-10-400-011-000

B. Owner

Name Star City Youth Foundation Signature Gaylea Sturgis

Address 301 Eastridge Dr. City/State/Zip Lincoln, NE 68510

Home Phone Work Phone

C. Certified Installer

Name: Raymond Contracting - Lloyd Jakobek Signature for Lloyd

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

Work Phone 402-783-2663

D. Engineer

☑ Check and complete if engineer designed system P.E. License Number: E-10521

Designer Name Jeremy Williams Firm Design Associates of Lincoln Work Phone 402-474-3000

E. This system will serve a

☐ Residential Dwelling Number of Bedrooms _____ Whirlpool Bathtub? ☐ Yes ☐ No Total Acres 58.59

Garbage Grinder? ☐ Yes ☐ No

☑ Commercial Establishment/Other Facility Specify concessions/restrooms Design flow in gallons per day 140

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 6/12/13
Date frwd 6/12/13
ACTION ☑ Approved ☐ Disapproved
Signature

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

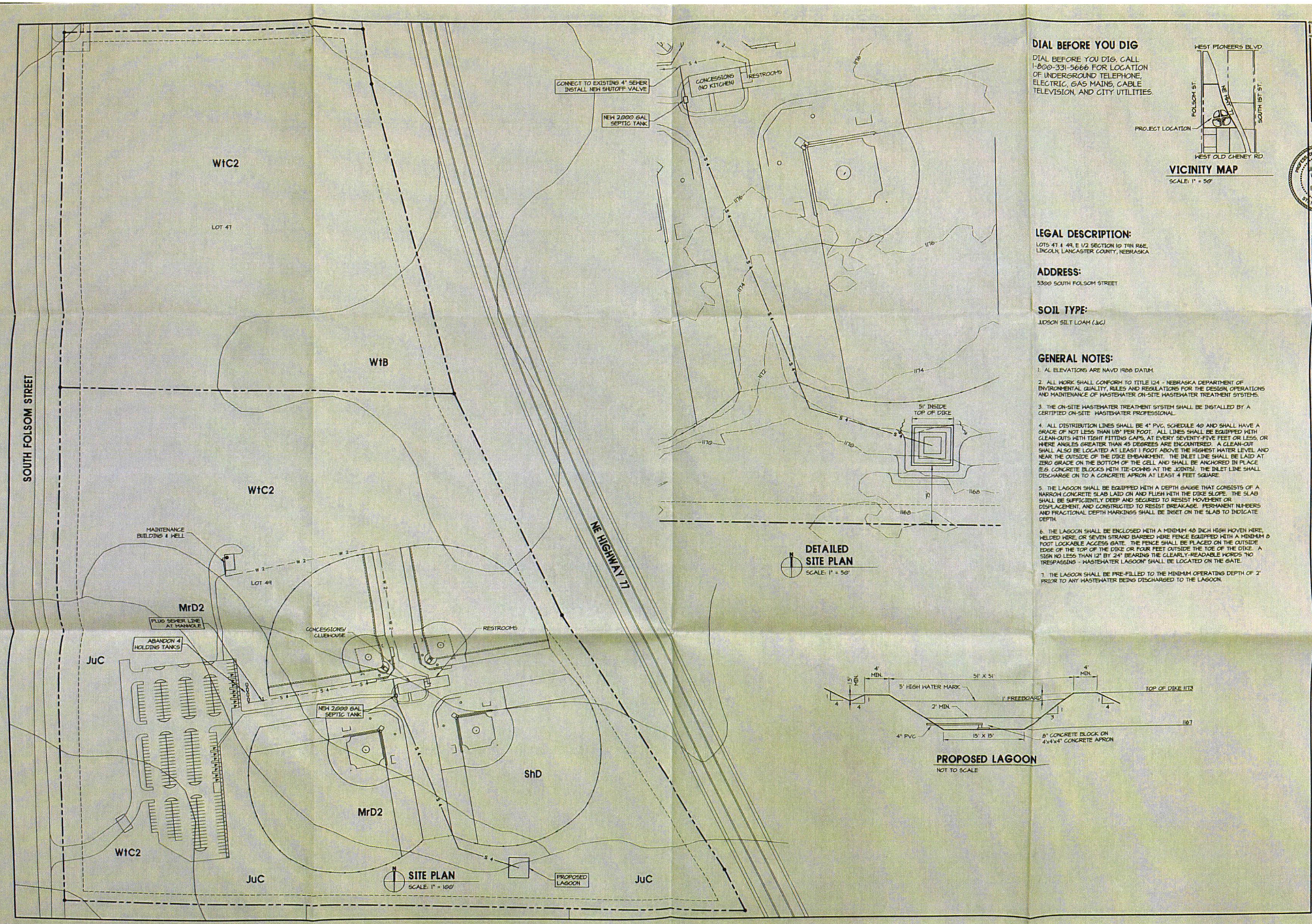
3. City or County Engineer
Comments _____
Date rec'd _____
Date frwd _____
ACTION ☐ Approved ☐ Disapproved
Signature

Installation Final Written Approval
By
Date 7/22/13

Business Office Use Only
Date Received 6-12-13 Amount Paid $355.-
Received By B. Hall Cash/Check No. 8115

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

Form A Updated: 1/13



DIAL BEFORE YOU DIG

DIAL BEFORE YOU DIG. CALL 1-800-331-5666 FOR LOCATION OF UNDERGROUND TELEPHONE, ELECTRIC, GAS MAINS, CABLE TELEVISION, AND CITY UTILITIES.

VICINITY MAP

SCALE: 1" = 50'

LEGAL DESCRIPTION:

LOTS 47 & 49, E 1/2 SECTION 10 7 11N R6E, LINCOLN, LANCASTER COUNTY, NEBRASKA

ADDRESS:

5300 SOUTH FOLSOM STREET

SOIL TYPE:

JUDSON SILT LOAM (JuC)

GENERAL NOTES:

1. ALL ELEVATIONS ARE NAVD 1988 DATUM.

2. ALL WORK SHALL CONFORM TO TITLE 124 - NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY, RULES AND REGULATIONS FOR THE DESIGN, OPERATIONS AND MAINTENANCE OF WASTEWATER ON-SITE WASTEWATER TREATMENT SYSTEMS.

3. THE ON-SITE WASTEWATER TREATMENT SYSTEM SHALL BE INSTALLED BY A CERTIFIED ON-SITE WASTEWATER PROFESSIONAL.

4. ALL DISTRIBUTION LINES SHALL BE 4" PVC, SCHEDULE 40 AND SHALL HAVE A GRADE OF NOT LESS THAN 1/8" PER FOOT. ALL LINES SHALL BE EQUIPPED WITH CLEAN-OUTS WITH TIGHT FITTING CAPS, AT EVERY SEVENTY-FIVE FEET OR LESS, OR WHERE ANGLES GREATER THAN 45 DEGREES ARE ENCOUNTERED. A CLEAN-OUT SHALL ALSO BE LOCATED AT LEAST 1 FOOT ABOVE THE HIGHEST WATER LEVEL AND NEAR THE OUTSIDE OF THE DIKE EMBANKMENT. THE INLET LINE SHALL BE LAID AT ZERO GRADE ON THE BOTTOM OF THE CELL AND SHALL BE ANCHORED IN PLACE BY 6 CONCRETE BLOCKS WITH TIE-DOWNS AT THE JOINTS. THE INLET LINE SHALL DISCHARGE ON TO A CONCRETE APRON AT LEAST 4 FEET SQUARE.

5. THE LAGOON SHALL BE EQUIPPED WITH A DEPTH GAUGE THAT CONSISTS OF A NARROW CONCRETE SLAB LAID ON AND FLUSH WITH THE DIKE SLOPE. THE SLAB SHALL BE SUFFICIENTLY DEEP AND SECURED TO RESIST MOVEMENT OR DISPLACEMENT, AND CONSTRICTED TO RESIST BREAKAGE. PERMANENT NUMBERS AND FRACTIONAL DEPTH MARKINGS SHALL BE INSET ON THE SLAB TO INDICATE DEPTH.

6. THE LAGOON SHALL BE ENCLOSED WITH A MINIMUM 48 INCH HIGH WOVEN WIRE, WELDED WIRE, OR SEVEN STRAND BARBED WIRE FENCE EQUIPPED WITH A MINIMUM 8 FOOT LOCKABLE ACCESS GATE. THE FENCE SHALL BE PLACED ON THE OUTSIDE EDGE OF THE TOP OF THE DIKE OR FOUR FEET OUTSIDE THE TOE OF THE DIKE. A SIGN NO LESS THAN 12" BY 24" BEARING THE CLEARLY-READABLE WORDS "NO TRESPASSING - WASTEWATER LAGOON" SHALL BE LOCATED ON THE GATE.

7. THE LAGOON SHALL BE PRE-FILLED TO THE MINIMUM OPERATING DEPTH OF 2' PRIOR TO ANY WASTEWATER BEING DISCHARGED TO THE LAGOON.

21 MAY 2013

PROFESSIONAL CIVIL ENGINEER
JEREMY J. WILLIAMS
E-10539
STATE OF NEBRASKA
5/21/13

OPTIMIST YOUTH SPORTS COMPLEX

ON-SITE WASTEWATER SYSTEM
LINCOLN, NEBRASKA

WASTEWATER LAGOON PLANS

Design Associates of Lincoln, Inc
ARCHITECTS • ENGINEERS • PLANNERS
1919 SOUTH 40TH STREET, SUITE 111, LINCOLN, NEBRASKA 68506
PHONE 402.474.3000 FAX 402.474.4240

1 OF 1

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

JUL 01 2013

D

Permit Number: HS600766

Onsite Wastewater Treatment System

As Built Plans & Specifications

Date 6/21/13 Legal Description SE (1/4) 1/4 10 (Section) 9 (Township) 6e (Range) Lot 347+48

Onsite System Location

Address (no rural route) 5360 S. Folsom St City Lincoln NE, Zip 68523

Owner Star City Youth Foundation Address 301 Eastridge Dr Lincoln, NE 68510

A. Sewer Pipe

1. Material: Sch 40 SDR 26
   Diameter: 4 in.
2. Distance above basement floor: _____ in.
   or distance below basement floor: _____ in.
3. Distance between ~~dwelling~~ tank and ~~septic tank~~ LAGOON: 644 ft.
4. Number of clean-outs: 3
5. Distances to: well or suction line 100'+ ft.
   stream 50'+ ft.
   pressure line 30'+ ft.
   property line 50'+ ft.

B. Septic Tank

☒ Label with Manufacturer, address and gallon capacity

1. Material: Concrete
   Number of compartments: 1
2. Capacity: 2,000 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: 30-18 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: _____
   Number available outlets: _____
2. Factory built: ☐ Yes ☐ No
3. Distance from septic tank: _____ ft.

D. Drainfield Absorption

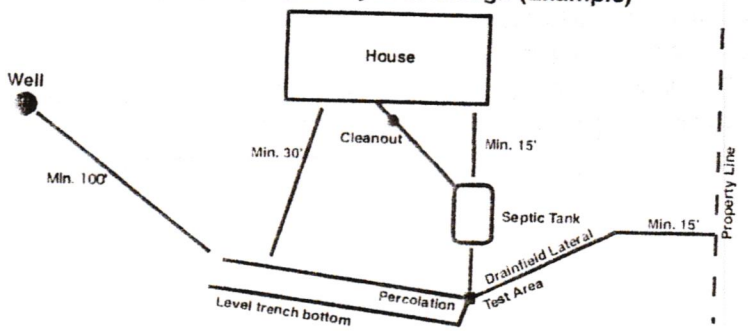
☐ Trench ☐ Bed ☐ Level Bottom

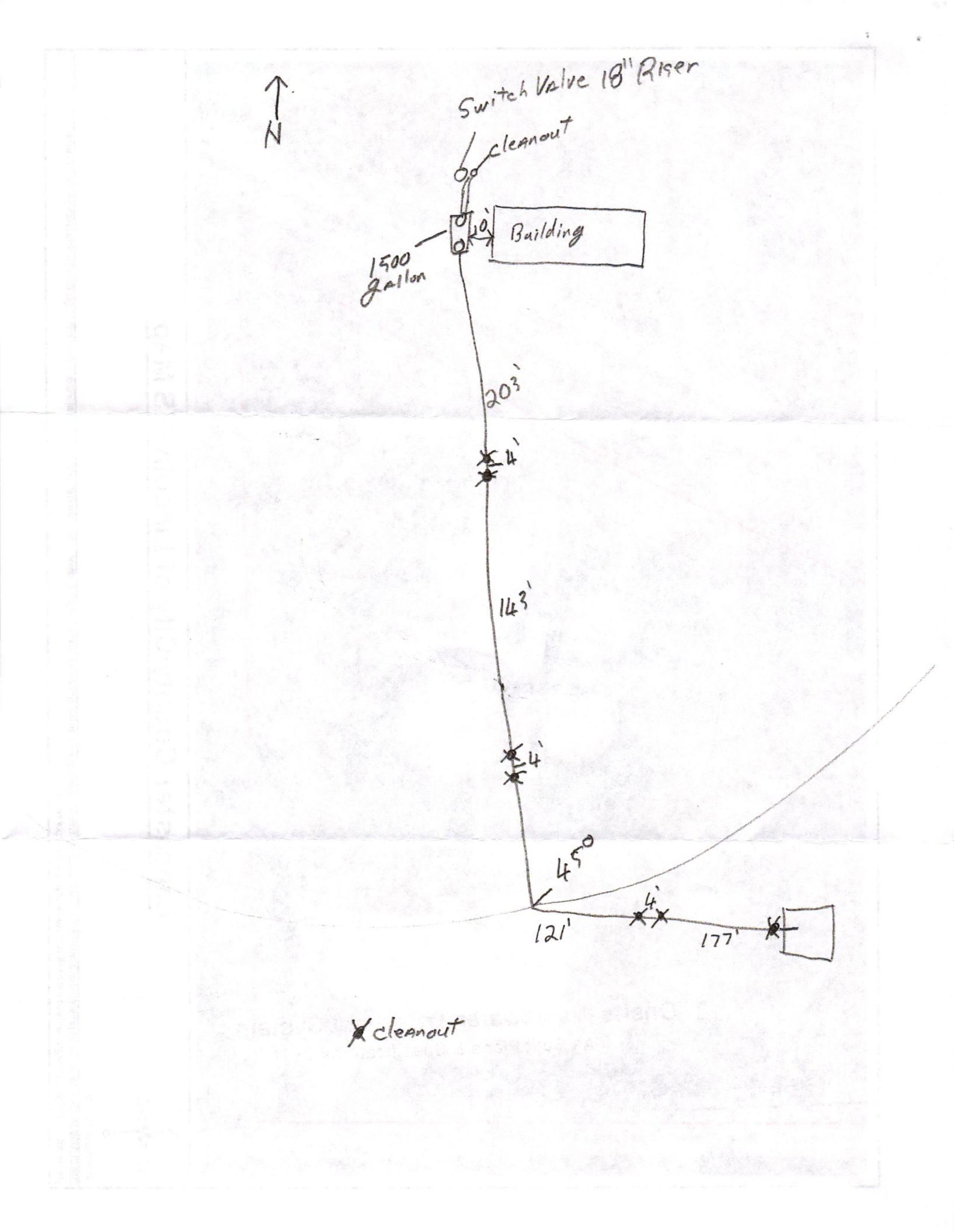
1. Type: ☐ Half rounds ☐ Perforated pipe ☒ Chambers
   Diameter or width: _____
   Number of distribution lines in bed _____
   Material: ☐ fiberglass ☐ plastic ☐ concrete
   ☐ other _____
2. Drainfield Laterals: Number _____
   Length of each line: _____ ft. _____ ft.
   _____ ft. _____ ft., _____ ft.
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.

Indicate North with Arrow

Onsite Wastewater System Design (Example)




N
Switch Valve 18" Riser
cleanout
10'
Building
1500 Gallon
20'
4'
143'
4'
45°
4'
121'
177'
cleanout



Lancaster County/City of Lincoln GIS Map

N
W E
S

Printed: Jun 27, 2013

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
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Phone: 402-441-8643

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Home Phone _____ Work Phone _____

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

Installation Final Written Approval
By _____
Date _____

Business Office Use Only
Date Received 6-12-13 Amount Paid $355.-
Received By B. Hall Cash/Check No. 8115

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

Average Annual Waste: 2011 = 53,000 gal

2012 = 39,000 gal

36,000 gal/year

Average Daily Flow: 36,000 gal / 365 day = 100 gal/day

Adjustment for Facility Improvements: 40% increase in operations

=> ave. daily flow = 140 gal/day = I

Lagoon Area:

$$A = \frac{I \times 967}{(EVAP - PREC) \times 1.67 + LV + (SEEP \times 608)}$$

I = daily design flow = 140 gal/day

EVAP = net evaporation = 44.0 in/yr

PREC = net precipitation = 27.5 in/yr

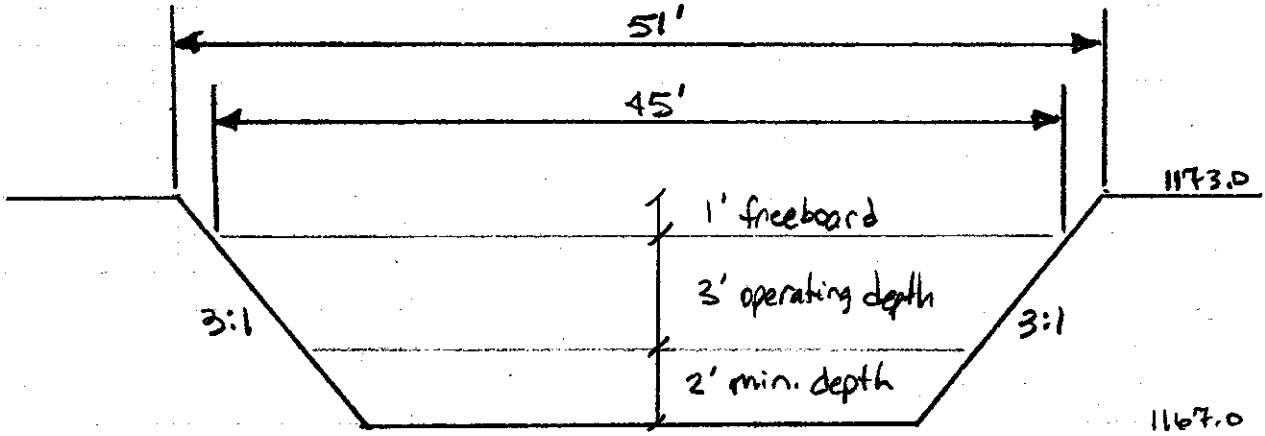
LV = operating depth = 3 ft

SEEP = seepage rate = 1/16 in/day

$$A = \frac{140 \times 967}{(44.0 - 27.5) \times 1.67 + 3 + (1/16 \times 608)}$$

= 1,975 sf => 45' x 45'

PROFESSIONAL CIVIL ENGINEER
JEREMY L. WILLIAMS
E-10621
STATE OF NEBRASKA
5/13/13



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STATE OF NEBRASKA

5/13/13