Lincoln-Lancaster County Health Department

ENVIRONMENTAL HEALTH DIVISION
3140 N STREET · LINCOLN, NE 68510-1514 (402) 441-8000

Permit

SEWAGE INSTALLATION
SEPTIC SYSTEM

Permit # 00380218601

Issued 05/08/00
Expires 11/08/00
Revenue Code 3157

FEES: $150.00

Establishment

NORTHERN LIGHTHOUSE
T11N R6E SEC 35 QTR SE
GARDEN VALLEY SE 1/4 BLK 4 LOT 1&4
5901 N 14 ST

TOTAL: $150.00

Permitee

NORTHERN LIGHTHOUSE
5901 N 14 ST
LINCOLN NE 68521-8945

Leon F. Vinci, MPH, Health Director

• POST IN A PROMINENT PLACE • NOT TRANSFERABLE

013092

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

A

Permit Number:

Sewage Disposal System

Request for Site Clearance and Permit

Include Form B, Form C and Applicable Fees with this Application.

☒ Septic System ☐ Lagoon ☐ Other (Refer to Form C)

The undersigned hereby requests site clearance and permit to construct a Sewage Disposal System in conformance with appropriate resolution or ordinance, as described herein:

PLEASE PRINT OR TYPE

A. System Location (Indicate correct number and street)

Address 5901 N. 14th Street (no rural route) City LINCOLN NE, Zip 68521

Legal Description SE (1/4) SE (1/4) 35 (Section) 11N (Township) 6E (Range) Garden Valley (Subdivision) 4 (Addition) 1&4 (Block/Lot)

Geographical Location (if known): Longitude _____ Latitude _____

☐ Check if system mail address is not the same as the owner's address

B. Owner

Name Northern Lighthouse Signature Warden L. Kinsell

Address 5901 N. 14th Street City/State/Zip LINCOLN, NE 68521

☐ Check if owner designed system Home Phone 477-3550 Work Phone —

C. Contractor

Name Brad Southwick Company Name Southwick Sewer and Drain

Address 17201 S. 72nd Street City/State/Zip Hickman, NE 68372

☐ Check if contractor designed system Work Phone 792-2462

D. Engineer/Installer ☐ Check and complete if engineer designed system

Designer Name Holly Lionberger Firm EA Engineering, Science, and Technology Work Phone 476-3766

E. This System Will Serve a

☐ Residential Dwelling Number of Bedrooms ____ Is there a Whirlpool Bathtub YES NO

☒ Commercial Establishment/Other Facility Specify Church

Design flow in gallons per day 1565 Type of Wastewater: ☒ Domestic ☐ Non-Domestic.

DO NOT WRITE BELOW THIS LINE

Approval Process

☒ Municipal Code 24.38 ☐ County Resolution No. 2832 Pending DEQ approval

1. Health Department	Date rec'd 5-4-00 Date frwd	ACTION ☒ Approved ☐ Disapproved Signature Paul Dickgrafe	
2. Supt. Bldg. Insp. or Village Clerk	Date rec'd 5/23.00 Date frwd 5-23.00	ACTION ☒ Approved ☐ Disapproved Signature	
3. City or County Engineer	Date rec'd 5-23-00 Date frwd 5-23-00	ACTION ☒ Approved ☐ Disapproved Signature	

6-13-00 rec sewer line + tanks
6-14-00 rec engineering Need D. sheet
+ Fee from Wanda

Installation Final Written Approval

By Ron Mayfield

Date 7-10-00

Business Office Use Only

Date Rec'd 05/04/00

Amt Paid 150

Rec'd By _____ Cash/Check No. 1007

FORM 23-100 10-96 White - Health Dept. Yellow - Engineer Pink - Bldg. Inspector

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

B

Permit Number:

Sewage Disposal System
Soil Absorption Test Data Report
Annex to Application

PLEASE PRINT OR TYPE

System Location (Indicate correct number and street)

Address 5901 N 14th Street (no rural route) City Lincoln NE, Zip 68521

Owner Northern Lighthouse Address same as above

Soil Type (SCS): silty clay Percolation Rate: 60 min./inch

Date of Tests 12/22/1999 to 12/23/1999 Weather: Precipitation Ø Temperature 27°F

Percolation Test Data Table

A.	B.	C. D. E. F. Pre-Saturation Period				G. H. I. J. K. Percolation Readings					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)	Water Lev (in.)	Date (Mo/Da)	Time (Hr/Min)	Elapsed Time (Min)	Water Level Drop (in)	Percolation Rates (Min/in)
1	36	12/22	9:00	12/22	13:00	12/23	12:30	11 1/2	12/23	13:00	30	7/8	34
2	36	12/22	9:00	12/22	13:00	12/23	12:30	12 3/8	12/23	13:00	30	1/2	60
3	36	12/22	9:00	12/22	13:00	12/23	12:30	9 1/2	12/23	13:00	30	1 3/8	22
4	36	12/22	9:00	12/22	13:00	12/23	12:30	12 5/8	12/23	13:00	30	2	15
5	36	12/22	9:00	12/22	13:00	12/23	12:30	8	12/23	13:00	30	4	7 1/2
6	36	12/22	9:00	12/22	13:00	12/23	12:30	13 1/8	12/23	13:00	30	1 1/8	27

Sum of Percolation Rates: 165.5
Average of Rates: 27.6
Rate Used for Calculation: 60.0

Person Conducting Percolation Tests

Name: Ray Frey - EA Engineering, Science & Technology
Phone: (402) 476-3766
Address Suite 701 1215 S. 13th Street
Lincoln, NE 68508

DO NOT WRITE BELOW THIS LINE

Reviewing Action

Remarks _____

Signature of Reviewing Official _____ Date _____

FORM 23-101 10-96

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

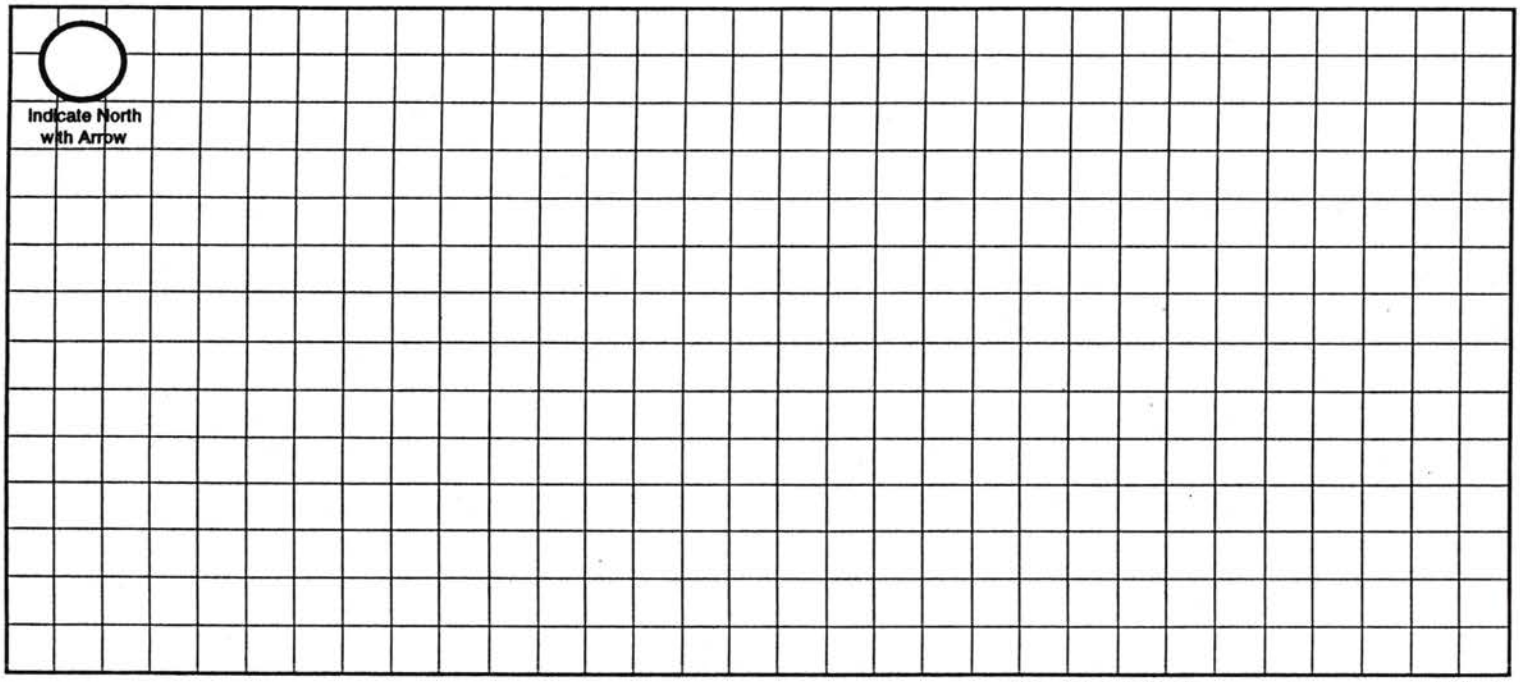
C

Permit Number:

Sewage Disposal System

Preliminary Plan Specifications

Draw a plot plan showing system location, lines, distribution box, tank and laterals, percolation test hole locations, well, residence, compass direction and property lines. Indicate on drawing if residence and well are existing or proposed.



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

A. System Location (Indicate correct number and street)

Address (no rural route) 5901 N. 14th Street City Lincoln NE, Zip 68521

B. Proposed Septic Tank/s

Tank Material: ☒ Concrete ☐ Plastic ☐ Other _____

C. Proposed Absorption System (See Form B for Percolation Information)

Percolation Rate 60 (min. per inch) Soil Type: _____ Land Slope: 6 %

Type of Absorption System: ☒ Trench ☐ Bed ☐ Other _____

Total Square Feet of Field Required: 2425 sq. ft.

Type of Lateral: ☐ Half-Moon ☐ Perforated Pipe ☒ Other Lateral Material: Infiltrator Chamber

Capacity of Septic Tank 1250 (1250) gals Number of Absorption Beds: _____ Number of Distribution Laterals per Bed _____

Total Length of Laterals 500 ft. Number of Trenches 5 Trench Width 5-foot

D. 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 ☐	☐

E. Required Signatures

Home Building Contractor _____ Date _____

Installer _____ Date _____

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

D

Permit Number:

Sewage Disposal System

As Built Plans & Specifications

Date 6-25-00 Northern Lighthouse Church

System Location (Indicate correct number and street)

Address 5901 N. 14 (no rural route) City Lincoln NE, Zip 68523

A. Building Sewer

1. Material: PVC SDR 35
   Diameter: 6 in.
2. Distance above basement floor: _____ in.
   or distance below basement floor: _____ in.
3. Distance between dwelling and septic tank: 210 ft.
4. Number of clean-outs: 4
5. Distances to: well or suction line _____ ft.
   stream _____ ft.
   pressure line _____ ft.
   property line _____ ft.

B. Septic Tank

1. Material: 2- 1250 - Concrete
   Number of compartments: 1250 (2500) (2)
2. Capacity: (2500) gal.
3. Factory built: ☒ Yes ☐ No
4. Manholes: Over inlet, diameter 6x9 in.
   Over outlet, diameter 6x9 in.
   Riser: ☐ above ☐ below grade 4 in.
5. Inlet: ☒ baffle ☐ tee
6. Outlet: ☒ baffle ☐ tee
7. Depth to top of tank, below unfinished grade: 24 in.
8. Distances to: Well or suction line > 50 ft.
   Stream NA ft.
   Pressure line NA ft.
   Property line > 5 ft.

C. Distribution Box

1. Material: Drop boxes (5)
   Number available outlets: _____
2. Factory built: ☒ Yes ☐ No
3. Distance from septic tank: 70 ft.

D. Absorption Field

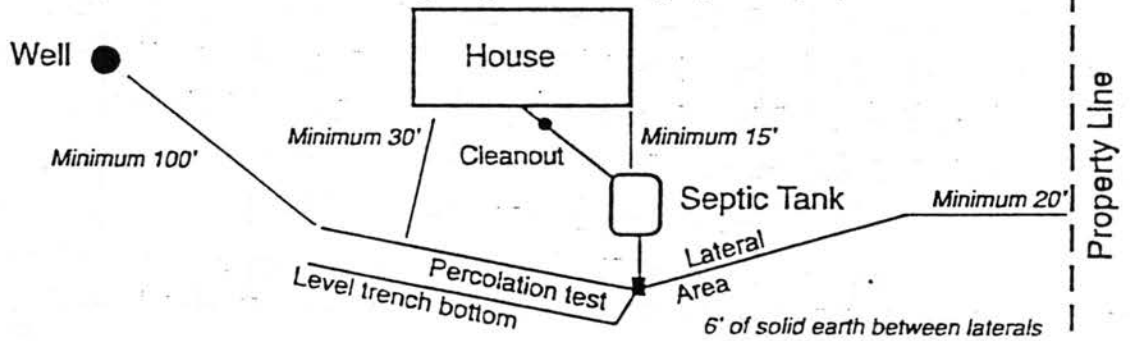
(Provide as-built drawings on back of this form)

1. Type: ☒ Half rounds ☐ Perforated pipe
   Diameter of half round: _____
   or perforated pipe: _____
   Material: ☐ fiberglass ☒ plastic ☐ concrete
   ☐ other Infiltrator
2. Lateral lines: Number 5
   Length of each line: 100 ft. 100 ft.
   100 ft. 100 ft., 100 ft.
3. Trench dimensions: Width 5 ft.
   Slope 4 in/100 ft.
   Average depth 36 in
4. Filter material: Road Gravel (2A)
   Depth of material 18 in.
5. Distances to: Well or suction line _____ ft.
   Stream _____ ft.
   Pressure line _____ ft.
   Property line _____ ft.

Indicate North with Arrow

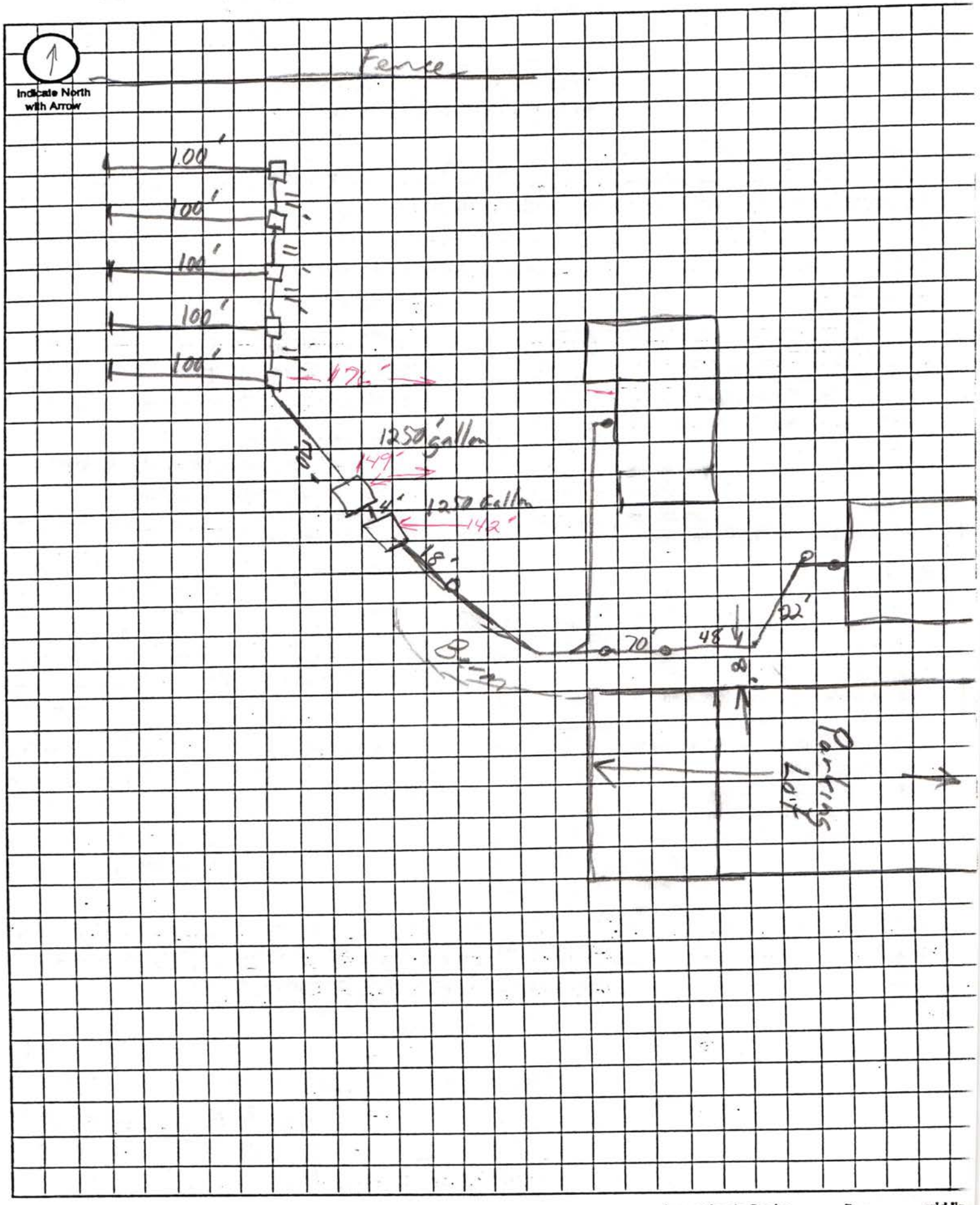
Complete "As Built" drawing on back of this form.

Individual Sewage System Design (Example)



FORM 23-103 10-96

As Built Drawing



Approximate Scale: _____ ft. = _____ grid lin

FOR NDEQ USE ONLY
PERMIT NUMBER:
APPROVED BY:
DATE APPROVED:

FORM B

APPLICATION FOR CONSTRUCTION / OPERATING PERMIT FOR A SEPTIC SYSTEM

(PLEASE PRINT OR TYPE)

A. Owner Information:

☐ Check here if owner designed system

Owner: Northern Lighthouse (Name)

Owner: (Signature)

5901 N. 14th Street (Street, P.O. Box, or Route) Lincoln (City)

NE (State) 68521 (Zip) 477-3550 (Phone (Home)) / — (Work)

B. Contractor Information:

☐ Check here if contractor designed system

Contractor: Brad Southwick (Name)

Southwick Sewer and Drain (Company Name)

17201 S. 72nd Street (Street, P.O. Box, or Route) Hickman (City)

NE (State) 68372 (Zip) 792-2462 (Phone (Work))

C. Engineer Information:

☒ Check and complete if engineer designed system

Designer: Holly Lionberger (Name) EA Engineering, Science and Technology (Firm) 476-3766 (Phone (Work))

D. System Location:

Legal Description: SE (1/4) of SE (1/4) 35 (Section) 11N (Township) 6E (Range) Garden Valley (Subdivision) 4 (Block) land 4 (Lot#)

County: Lancaster Is a County Permit Required: ☒ Yes ☐ No

☐ Check here if system mailing address is not the same as the owners and complete mailing information

System mailing Address: _____ (Street, P.O. Box, or Route) _____ (City) NE (State) _____ (Zip)

E. This System Will Serve A:

☐ Dwelling

Number of Bedrooms: _____

Is There a Whirlpool Bathtub: ☐ Yes ☐ No

☒ Establishment (name) Northern Lighthouse

Design Flow in Gallons per day: 1565

Type of Wastewater: ☒ Domestic ☐ Non-Domestic

F. Septic Tanks:

Number of Tanks in Series: 2 Tank Size (gallons) 1250 (1st) 1250 (2nd) _____ (3rd) _____ (4th) _____ (5th)

Tank Material: ☒ Concrete ☐ Plastic ☐ Other _____

G. Absorption system: (See Attachment C for Percolation Information)

Percolation Rate: 60 (min. per inch) Soil Type: _____ Land Slope: 6 %

Type of Absorption System: ☒ Trench ☐ Bed ☐ Gravelless ☐ Other _____

Total Square Feet of Field Required: 2425 (ft. sq.)

Type of Lateral: ☐ Half-Moon ☐ Perforated Pipe ☒ Other Lateral Material: Infiltrator Chamber

Number of Trenches: 5 Number of Absorption Beds: _____

Trench Width: 5-foot Number of Distribution Laterals per Bed: _____

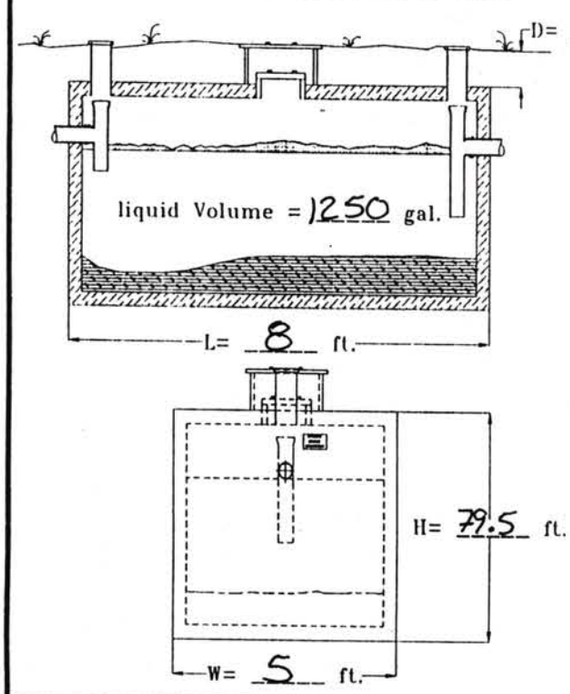
H. Setbacks: Check the Boxes Below If the Required Setback Has Been Satisfied:

Distance From	Private Well	Public Well	Surface Water	Ground Water	Pressure Water lines	Property Lines	Foundations Yours	Foundations Neighbors	All Other Setbacks
Tank (ft)	50 ☒	500 ☒	50 ☒	NA ☒	10 ☒	10 ☒	15 ☒	25 ☒	☒
Field (ft)	100 ☒	500 ☒	50 ☒	4 ☒	25 ☒	10 ☒	30 ☒	40 ☒	☒

(OVER)

COMPLETE SECTIONS I & J AND IF NECESSARY SECTION K FOR SUBDIVISIONS

I. SEPTIC TANK DIMENSIONS

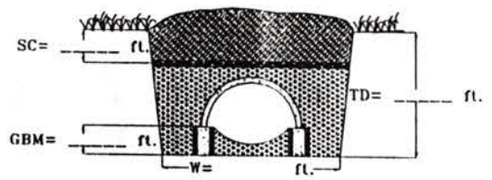


KEY

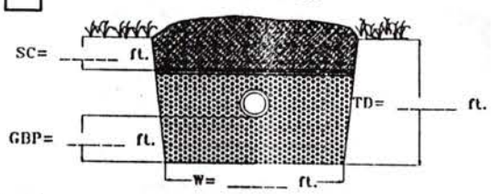
SC= SOIL COVER, TD= TRENCH DEPTH, W= WIDTH
GBM= GRAVEL BELOW HALF MOON, L= TANK DEPTH
GBP = GRAVEL BELOW PIPE, H= TANK HEIGHT,
D= DEPTH OF COVER

J. CHECK THE BOX FOR THE APPROPRAITE ABSORPTION FIELD AND COMPLETE THE BLANKS

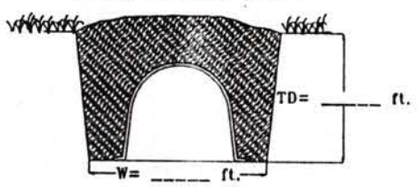
☐ HALF-MOON IN GRAVEL



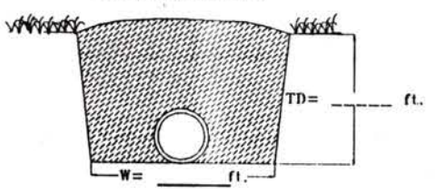
☐ PIPE IN GRAVEL



☐ GRAVELLESS HALF MOON



☐ GRAVELLESS PIPE

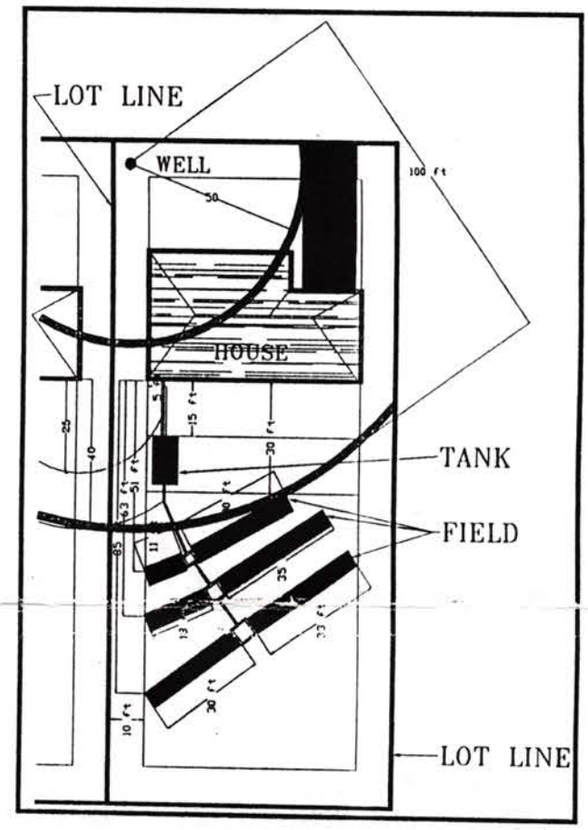


☒ OTHER: Include Drawing

K. Complete Adjacent Lot Worksheet for All Wells and Water Lines Within The Reporting Distance in Chapter 5

NORTHWEST	NORTH	NORTHEAST
DISTANCE IN FEET FROM: TANK FIELD	DISTANCE IN FEET FROM: TANK FIELD	DISTANCE IN FEET FROM: TANK FIELD
WELL: ____ ____	WELL: ____ ____	WELL: 278 ____
WATER LINES: ____ ____	WATER LINES: ____ ____	WATER LINES: 230 ____
WEST	PROPOSED SEPTIC SYSTEM INSTALLATION	**EAST**
DISTANCE IN FEET FROM: TANK FIELD		DISTANCE IN FEET FROM: TANK FIELD
WELL: ____ ____		WELL: ____ 317
WATER LINES: ____ ____		WATER LINES: ____ 304
SOUTHWEST	**SOUTH**	**SOUTHEAST**
DISTANCE IN FEET FROM: TANK FIELD	DISTANCE IN FEET FROM: TANK FIELD	DISTANCE IN FEET FROM: TANK FIELD
WELL: ____ ____	WELL: ____ ____	WELL: ____ ____
WATER LINES: ____ ____	WATER LINES: ____ ____	WATER LINES: ____ ____

EXAMPLE PLOT PLAN

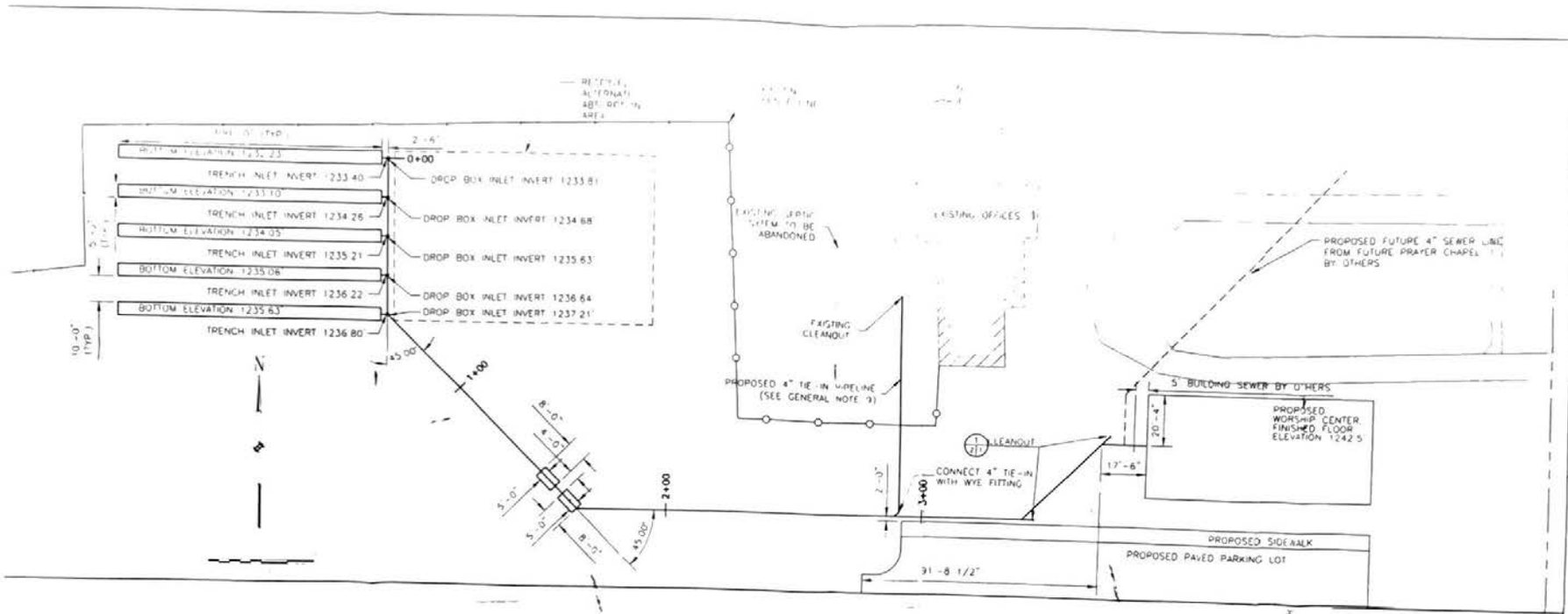


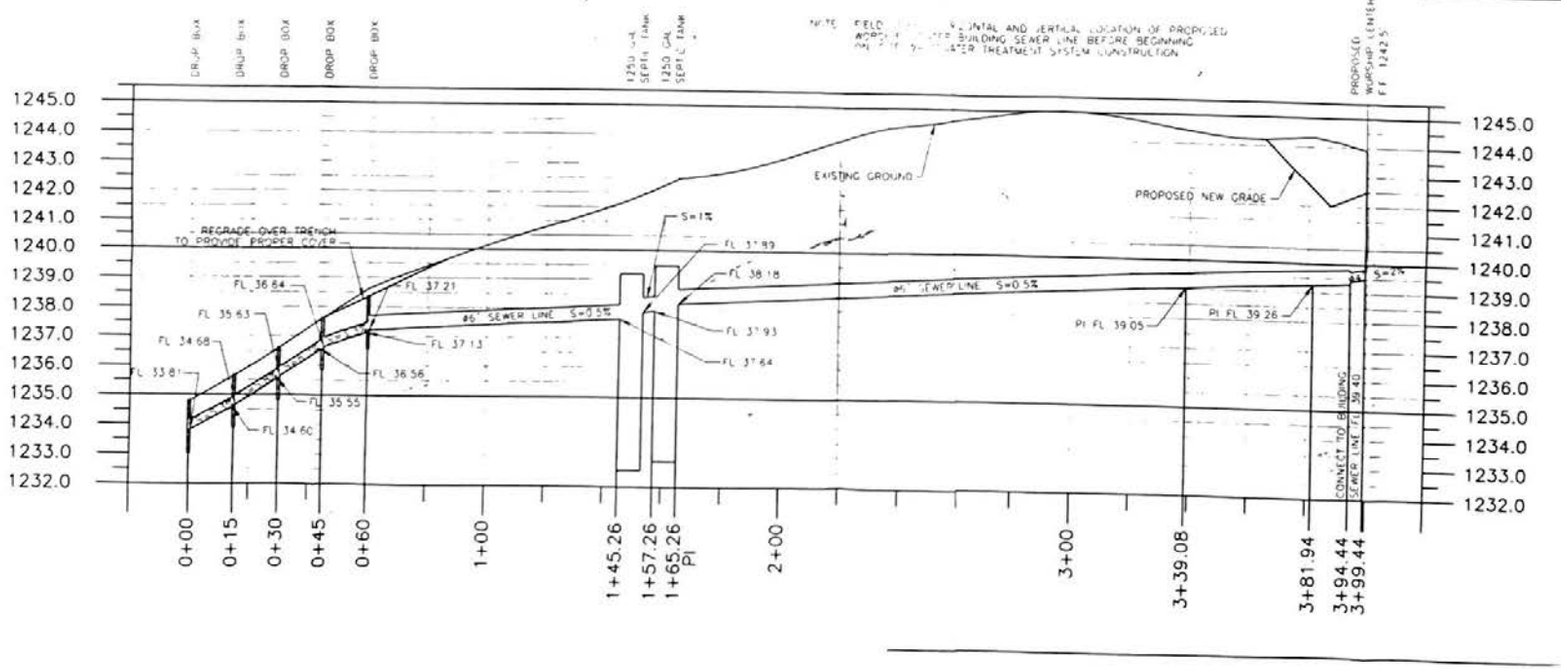
Documents Required:

* Completed Form B application
* Directions to the lot with site map
* Dimensioned plot plan (See Example)
* Completed percolation test data (see attachment C)
* Dimensioned drawing showing profile view of septic system and slope of terrain
* All information must be submitted to the Department of Environmental Quality. Show applicant's name, address and phone number on each submitted page

* Send Documents to:

Department of Environmental Quality
Ground Water Section
1200 N Street, Suite 400
P.O. Box 98922
Lincoln, Nebraska 68509-8922





Pollution Control Project

APPROVED

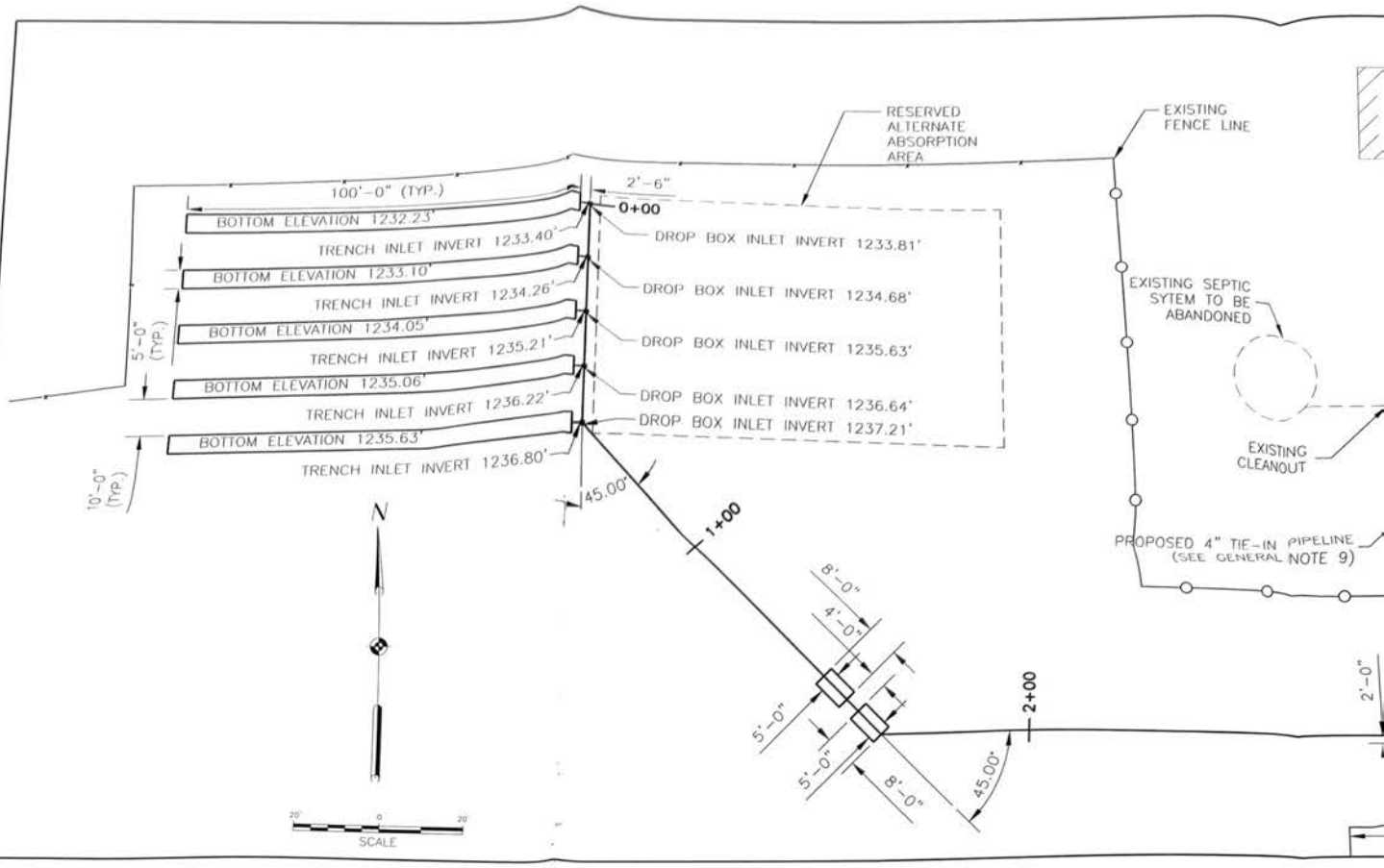
NO.	DATE	DESCRIPTION
1	5/17/00	HSL CHANGED GRADE RELOCATED SEPTIC SYSTEM ADDED ALTERNATE ABSORPTION AREA

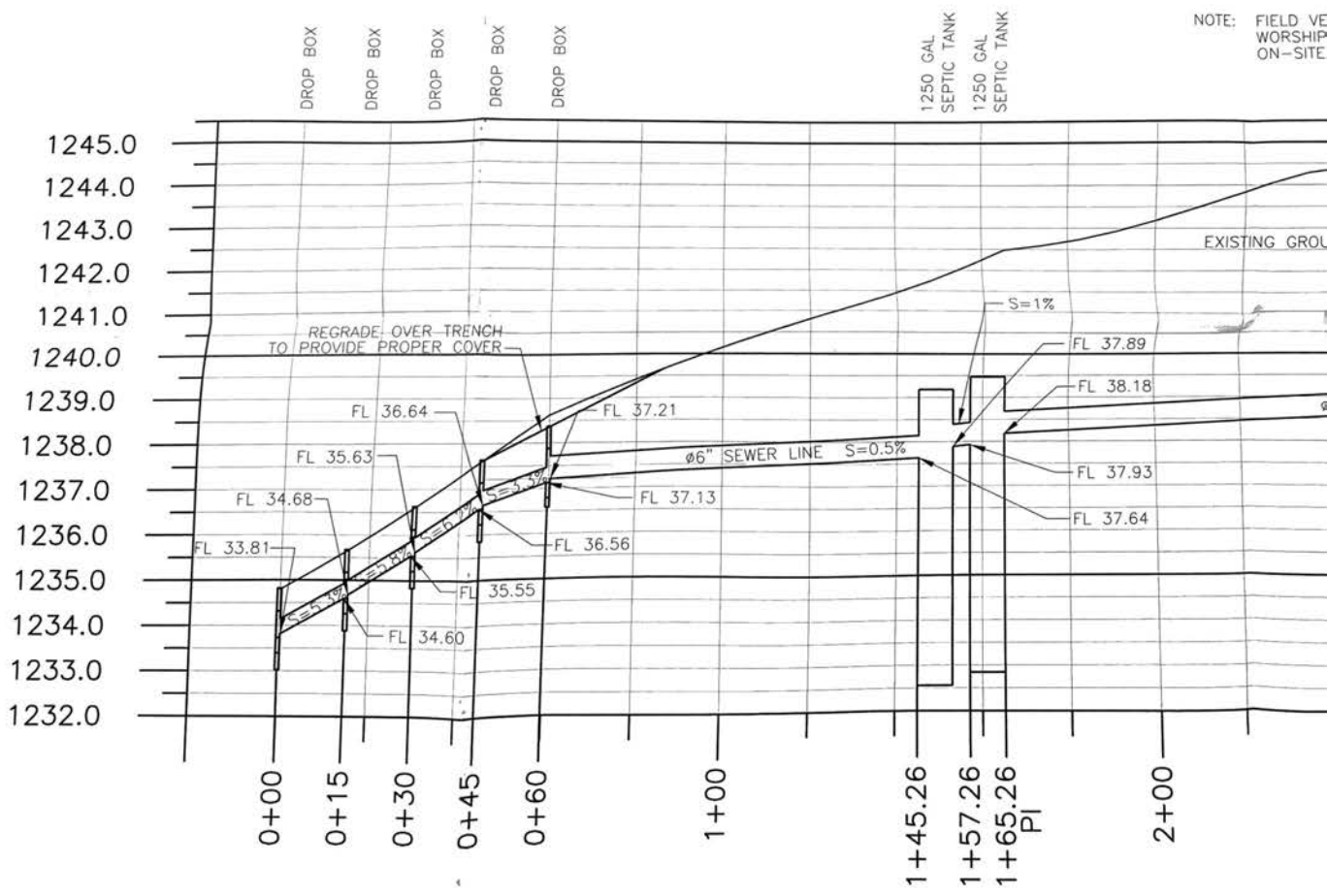
ON-SITE WASTEWATER TREATMENT SYSTEM
NORTHERN LIGHTHOUSE
5901 NORTH 14TH STREET
LINCOLN, NEBRASKA

SEWER LINE PLAN AND PROFILE

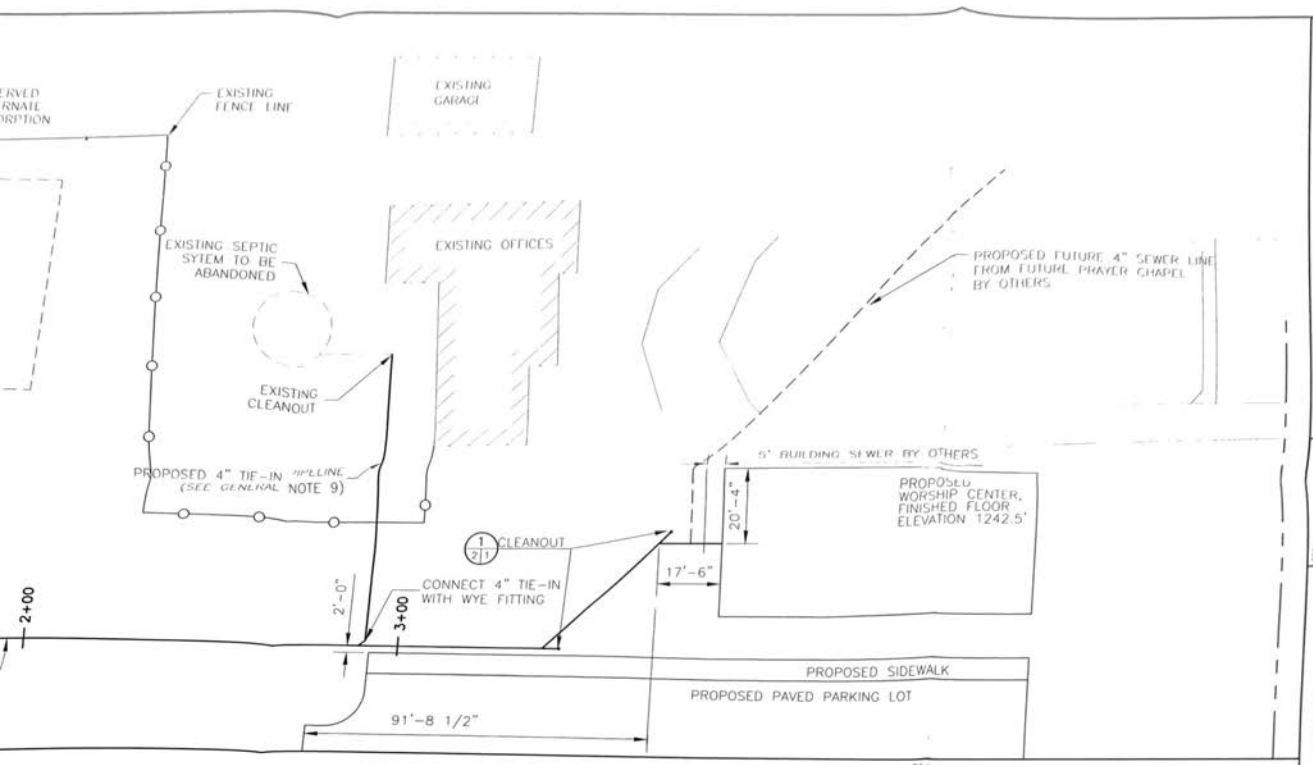
EA ENGINEERING SCIENCE AND TECHNOLOGY

MAY 2000

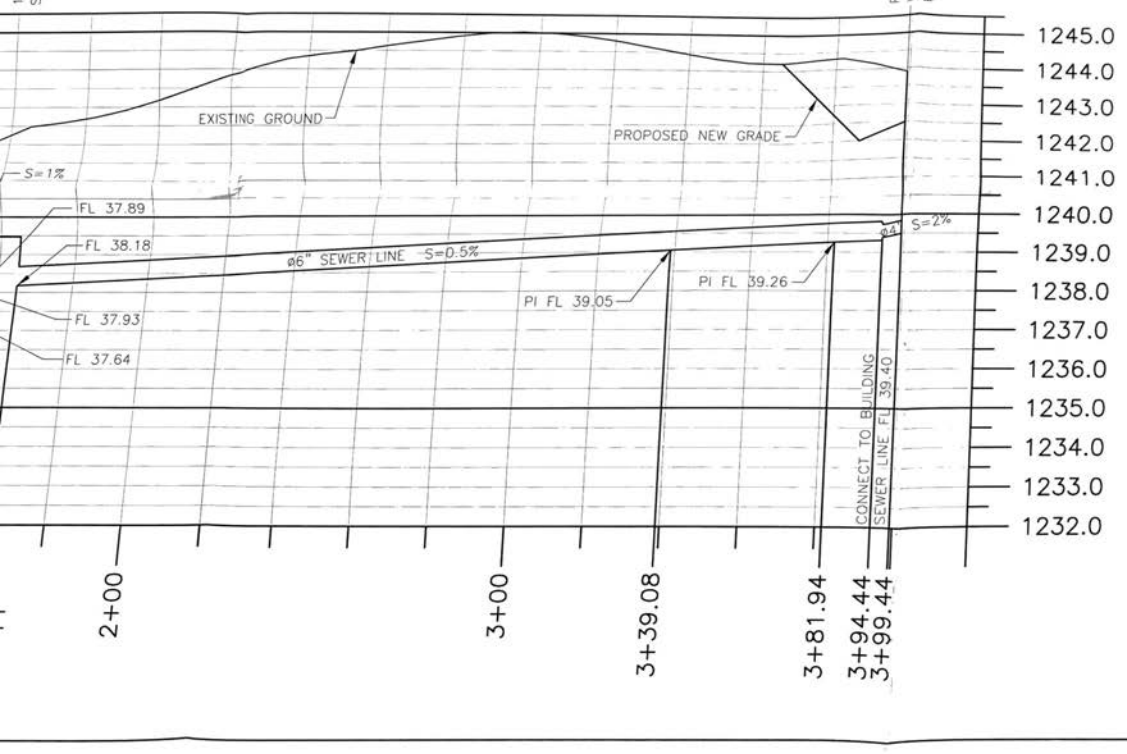




XAVIER F:\Industrial & Other\Misc\PROJECTS\Northern Lights\Projects\137340\1\Figures\Sheet 2.dwg
DATE: 09/01/2020 TIME: 09:25 DRAWN BY: mcarberger



NOTE: FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF PROPOSED WORSHIP CENTER BUILDING SEWER LINE BEFORE BEGINNING ON-SITE WASTEWATER TREATMENT SYSTEM CONSTRUCTION



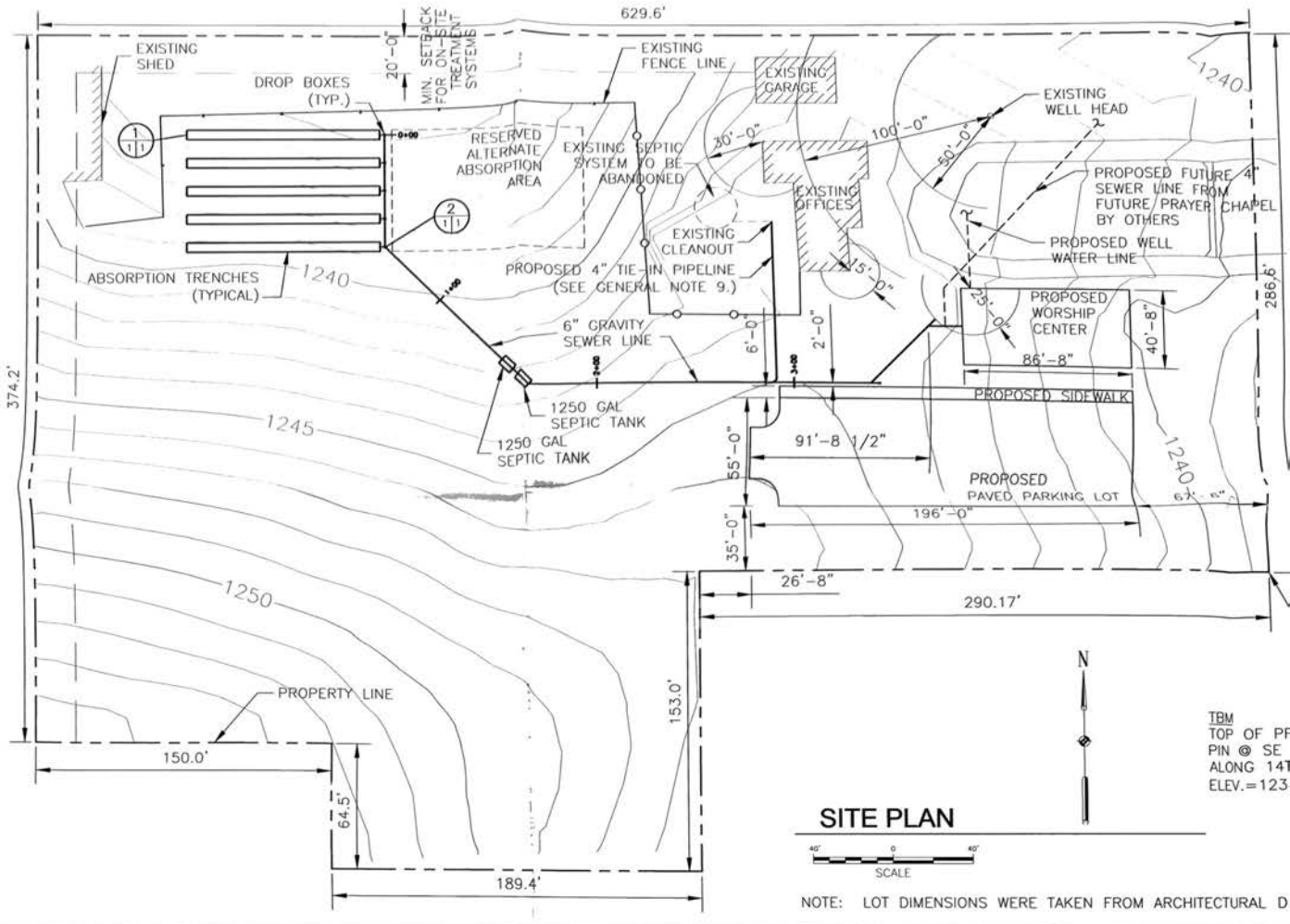
NO	DATE	BY	DESCRIPTION
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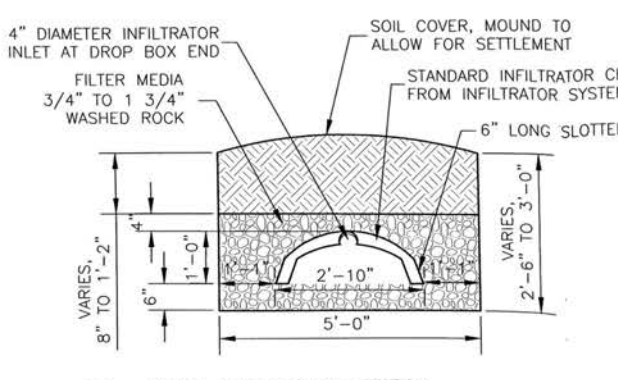
ON-SITE WASTEWATER TREATMENT SYSTEM
NORTHERN LIGHTHOUSE
5901 NORTH 14TH STREET
LINCOLN, NEBRASKA

SEWER LINE PLAN AND PROFILE

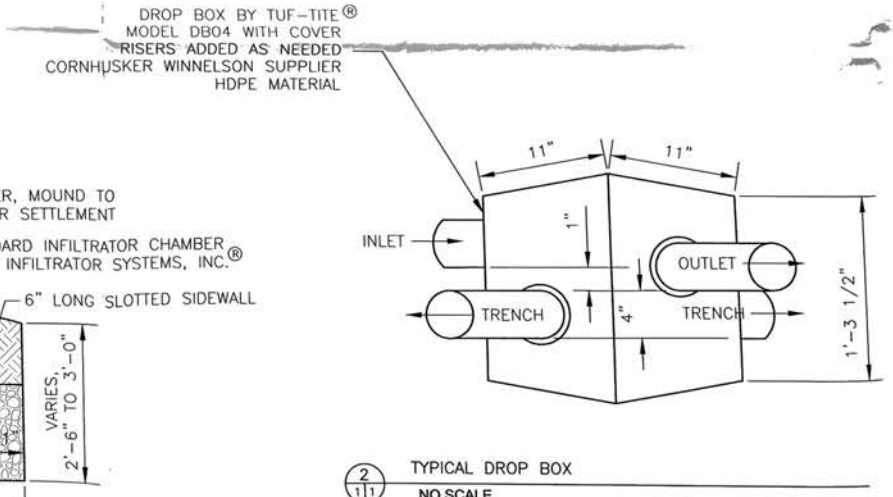
EA ENGINEERING, SCIENCE, AND TECHNOLOGY
Great Plains Operations
121 South 13th Street
Lincoln, Nebraska 68508
(402) 476-3768

DATE	MAY 2000
DESIGNED BY	HSL
DRAWN BY	STAFF
CHECKED BY	LNG
PROJECT MANAGER	LNG
PROJECT NUMBER	13734.01
SCALE	1"=20' HOR. 1"=2' VER.
FILE NAME	-
DRAWING NUMBER	-
SHEET NUMBER	2 OF 2



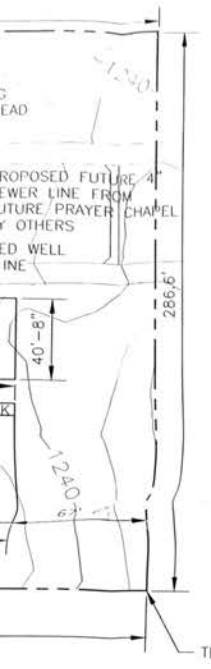


1/1 TYPICAL TRENCH CROSS-SECTION
NO SCALE



1/1 TYPICAL DROP BOX
NO SCALE

DRAWING NAME: F:\Industrial & Other\Misc\PROJECTS\Northern Lights\Projects\1373401\Figures\Sheet 1.dwg
DATE: 05/01/2000 TIME: 09:30 DRAWN BY: Hornberger



TBM
TOP OF PROPERTY
PIN @ SE CORNER
ALONG 14TH STREET
ELEV.=1238.59'

M ARCHITECTURAL DRAWINGS

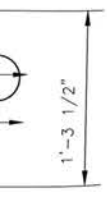


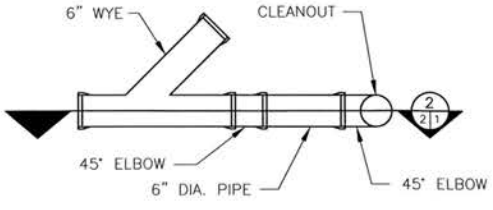
SITE LOCATION MAP - AERIAL PHOTO

NO SCALE SOURCE: NEBRASKA NATURAL RESOURCE COMMISION INTERNET SITE

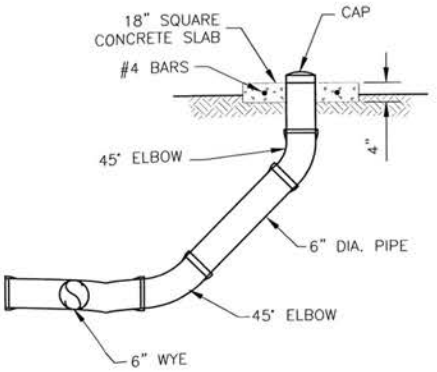
GENERAL NOTES:

1. ASTM 3034, SDR 35 PIPE TO BE USED. PLACE 3/4" CRUSHED ROCK BEDDING IN AREA EXCAVATED FOR SEPTIC TANK PLACEMENT BELOW THE SEWER PIPELINES TO PREVENT SHEARING OF SEWER LINE FROM SETTLEMENT.
2. BOTTOM OF TRENCHES TO BE LEVEL. INFILTRATOR CHAMBERS TO BE INSTALLED LEVEL.
3. DEPTH OF SOIL COVER OVER TRENCH FILTER MEDIA TO RANGE FROM 8-INCH TO 14-INCH TO MAINTAIN THE NATURAL SLOPE OF THE LAND.
4. FILTER MATERIAL TO BE COVERED BY UNTREATED BUILDING PAPER OR FILTER FABRIC MATERIAL TO PREVENT SOIL COVER FROM PLUGGING PORE SPACE.
5. ADD RISERS TO BRING DROP BOX REMOVEABLE COVER TO EITHER FLUSH OR ABOVE GRADE.
6. INLET OF FIRST DROP BOX TO BE 6-INCH DIAMETER TO MATCH GRAVITY PIPE SIZE FROM SEPTIC TANK. OTHER DROP BOX INLETS, OUTLETS AND TRENCH INLETS TO BE 4-INCH DIAMETER.
7. TRENCHES TO BE EXCAVATED IN SUCH A MANNER AS TO MINIMIZE SMEARING AND COMPACTION. EXCAVATION EQUIPMENT OR OTHER VEHICLES SHALL NOT BE DRIVEN ON SOIL ABSORPTION AREA.
8. VERIFY FINAL LOCATION OF PROPOSED WORSHIP CENTER, PROPOSED PARKING LOT AND SIDEWALK PRIOR TO INSTALLING SEPTIC TANKS TO CONFIRM 15-FOOT DISTANCE SEPARATION FROM BUILDING.
9. *FIELD VERIFY* LOCATION OF CLEANOUT ON EXISTING SEPTIC SYSTEM FOR TIE-IN TO PROPOSED SEPTIC SYSTEM. SLOPE OF TIE-IN LINE TO BE FIELD DETERMINED.





1/2|1 CLEANOUT PLAN VIEW
NO SCALE



2/2|1 CLEANOUT CROSS SECTION
NO SCALE

NO	DATE	BY	DESCRIPTION
1	5/1/00	HSL	CHANGED GRADE, RELOCATED SEPTIC TANKS, ADDED ALTERNATE ABSORPTION AREA.

REVISIONS

SEAL

PROFESSIONAL ENGINEER LEE N. GUSTAFSON E-7833 STATE OF NEBRASKA

ON-SITE WASTEWATER TREATMENT SYSTEM
NORTHERN LIGHTHOUSE
5901 NORTH 14TH STREET
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SITE PLAN AND DETAILS

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DATE	MAY 2000
DESIGNED BY	HSL
DRAWN BY	STAFF
CHECKED BY	LNG
PROJECT MANAGER	LNG
PROJECT NUMBER	13734.01
SCALE	AS SHOWN
FILE NAME	-
DRAWING NUMBER	-
SHEET NUMBER	1 OF 2