LINCOLN-LANCASTER COUNTY HEALTH DEPARTMENT

FILE NO. 1504-C

INDIVIDUAL SEWAGE SYSTEM CONSTRUCTION — TYPE OF PERMIT

September 26, 1979 — THIS PERMIT EXPIRES

Mrs. Janice Goin — ISSUED TO

Route 1, Box 135, Hickman, NE — ADDRESS

T7N, R7E, Section 10, Lot 11 I.T. — LEGAL DESCRIPTION

REMARKS: NON-TRANSFERABLE

PERMIT	INSPECTION FEE	OCCUPATION TAX	TOTAL
$ 60.00	$	$	$ 60.00
ACCOUNTING NO.	ACCOUNTING NO.	ACCOUNTING NO.	CODE
	110.16	148.14	6-2

RECEIPTED BY — DATE — AMOUNT

R. J. NUERNBERGER, Lancaster County Treasurer

VALID RECEIPT ONLY IF RECEIPTED ON THIS SPACE

HEALTH — ISSUING OFFICER

2832

THIS PERMIT IS ISSUED AS PROVIDED BY COUNTY RESOLUTION NO. _____

20109-0977

FORM 20103-0477
REQUEST FOR SITE CLEARANCE AND PERMIT
FOR INDIVIDUAL SEWAGE DISPOSAL SYSTEM
City Ordinance No. 9150 ☐
County Resolution No. 2832 ☒

LINCOLN-LANCASTER COUNTY HEALTH DEPARTMENT
Division of Environmental Health
2200 St. Marys Avenue
Lincoln, Nebraska 68502
Phone: 474-1541

A

FILING FEE: $ 60.00

FILE NO. 1504-C

DATE: 26 MARCH, 1979

The undersigned hereby requests SITE CLEARANCE and PERMIT to construct an Individual Sewage Disposal System in conformance with appropriate resolution or ordinance, as described herein:

1. Legal description of property: Twp. 7N ; Range 7E ; Section 10 ;
   Block ____ : Lot W.I.T. : Addition West 400' of North 653.4'
   Street Address 68th + Panama Road

2. Property Use: Residential ☐ ; Commercial ☐ Other Use ☒
   No. of Bedrooms ____. Describe Church

3. Type of Individual Sewage Disposal System: Septic Tank ☒ ; Other ☐

4. Distance to public sewer: NA ft.

MRS. Janice Goin
Signature of Applicant (Owner or Lessee)
Rt 1 Box 135
Hickman, NE 68372
Address

(Do not write below this double line)

1. Health Department: Date Rec'd. 3/26/79. Date Frwd. 3/26/79. ACTION: Approved ☒ Disapproved ☐ Signature: Jerrold C. Hood

2. Supt. Bldg. Insp.: or Village Clerk: Date Rec'd. ____. Date Frwd. ____. ACTION: Approved ☒ Disapproved ☐ Signature: Tom Bassch

3. City or County Engineer: Date Rec'd. 3-26-79. Date Frwd. 3-26-79. ACTION: Approved ☒ Disapproved ☐ Signature: Henry Graff

REMARKS OR REASONS FOR DISAPPROVAL ____

Site Visits:
Date: 11-27-79 by: JM
Date: ____ by: ____
Date: ____ by: ____

INSTALLATION FINAL WRITTEN APPROVAL
Date: 11-27-79 By: Ron Mayer

White: Health Dept. Copy
Yellow: Engineers Copy
Pink: Bldg. Inspector's Copy

Test No.	Drop in Water Level in Final 30 Min. Period (inches)	Percolation Rate (minutes/inch)
1	1/4	120
2	1/4	120
3	1/4	120
4	1/4	120
5	1/4	120
6	1/8	240
7	1/4	120
8	1/2	60
9	1/2	60
10	1/2	60
11	3/8	80
12	1/2	60

If you have any questions concerning this report or require additional information regarding subsurface conditions at this site, please contact us at your convenience.

Very truly yours,

WESTERN LABORATORIES

By Doyle B. Petersen
Doyle B. Petersen

Approved by Charles M. Anson
Charles M. Anson

DBP/CMA/lc
Enclosure
#78/2113
Or. & 2 cc. Robert Hanna Architects

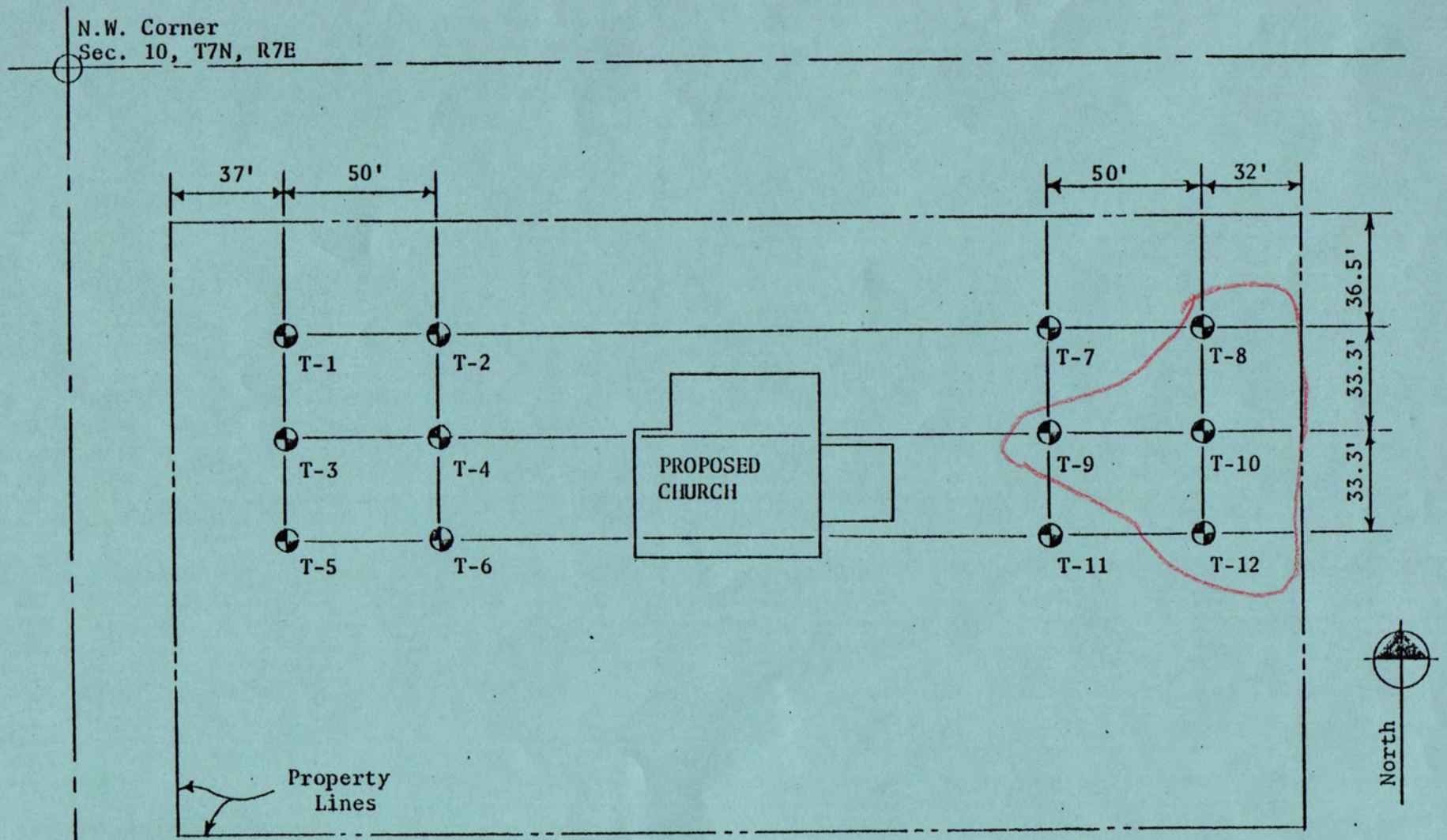


Figure 1

BORING LOCATION PLAN
PERCOLATION TESTS
SHEPHERD OF THE HILLS LUTHERAN CHURCH
HICKMAN, NEBRASKA

Scale: 1" = 50'

FORM 20102-0477
PRELIMINARY PLANS & SPECIFICATIONS FOR SEWAGE DISPOSAL SYSTEM (Annex to Application)
City Ordinance No. 9150 ☐
County Resolution No. 2832 ☒

LINCOLN-LANCASTER COUNTY HEALTH DEPARTMENT
Division of Environmental Health
2200 St. Marys Avenue
Lincoln, Nebraska 68502
Phone: 474-1541

C

Sketch of property showing Percolation Test hole locations, well, residence, direction and property line.

FILE NO. 1504-C

Indicate on sketch if residence and well are exisiting or proposed.

REVIEWING ACTION

Remarks: See blue sheets

Date: March 26, 1979

Minimum Design Requirement
1. Capacity of Septic Tank 1000 gals.
2. Total Length of Laterals 250 ft.
3. With a Trench Width of 48 in.
4. Total Area of Lateral needed 1000 sq.ft.

Gerald C. Hood
Signature of Reviewing Official

FORM HD- 45(73) PLANS & SPECIFICATIONS
SEWAGE DISPOSAL SYSTEM

(Annex to Application)
City Ordinance No. 9150 ☐
County Resolution No. 2832 ☐

LINCOLN-LANCASTER COUNTY HEALTH DEPARTMENT
Division of Environmental Health
2200 St. Marys Avenue
Lincoln, Nebraska 68502 (Phone: 475-6221)

FILE NO. _____

SPECIFICATIONS

Stoltenberger Excavating

DATE: 11-27-79

A. BUILDING SEWER:
1. Material Plastic; Diameter 4 in.
2. Distance above basement floor ____in.; or below basement floor ____in.
3. Distance between dwelling and septic tank 25 ft.
4. Number of clean-outs 3.
5. Distances To:
Well or Suction Line ____ft.;
Stream ____ft.; Pressure Line ____ft.;
Property Line ____ft.

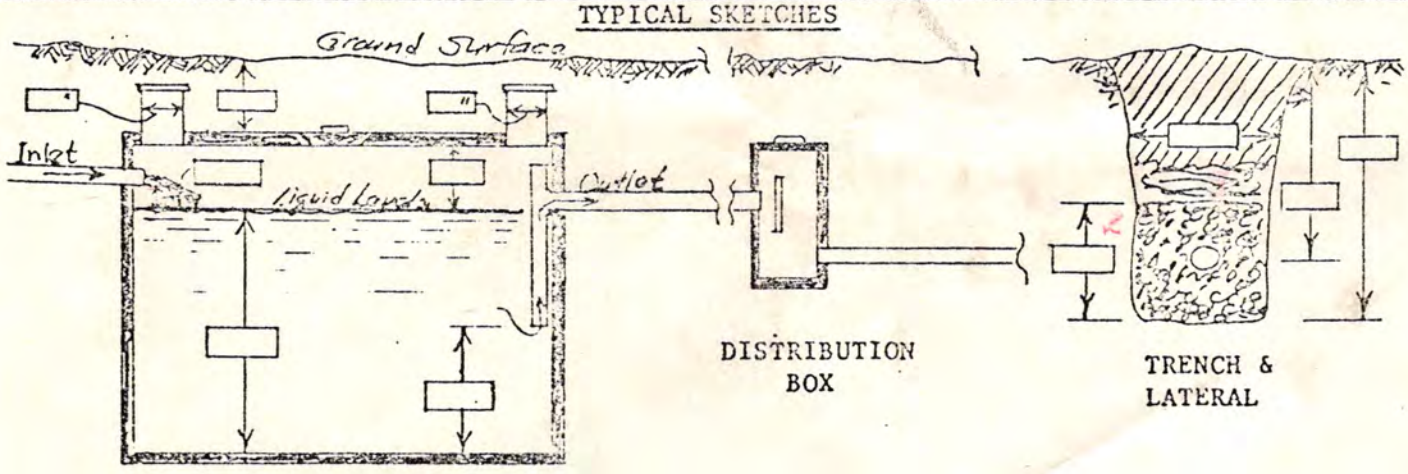
B. SEPTIC TANK (Provide construction drawings.)
1. Material concrete; No. of compartments _____.
2. Capacity 1000 gals.; Liquid depth ____in.
3. Factory Built: Yes ☒ (Company Precast Step) No ☐
4. Manholes: Over Inlet; diam. ____in.
Over Outlet; diam. ____in.
Below Grade _____in.
5. Inlet: Baffle ☒; or Tee ☐
6. Outlet: Baffle ☐; or Tee ☐
Depth of outlet below inlet ____in.
7. Depth of top of tank below finished grade 2 in. 2 (feet)
8. Distances To:
Well or Suction Line ____ft.;
Stream ____ft.; Pressure Line ____ft.;
Property Line ____ft.

Precast 1000 gal cement

C. DISTRIBUTION BOX
1. Material concrete; No. available outlets _____.
2. Factory Built: Yes ☒, (Company Precast Step) No ☐
3. Dimension: Length ____in.; Width ____in. Depth ____in.
4. Distance from Septic Tank 8 ft.
5. Serial Distribution: Yes ☒, No ☐ (If yes, show detailed plans.)

D. ABSORPTION FIELD: (Provide drawings.)
1. Type: half moon with gravel
2. Lateral Lines: Depth below grade ___in. Number 3; Length of each line 28 ft Total length of Laterals 264 ft.; Slope 2 in/100 ft. Diameter of pipe 4 in.; Shape half moon
Material: concrete ☐; fiber asbestos ☐; clay ☐; other _____
Distance between lateral lines ____ft.
3. Trench Dimensions: Depth ___in.; Width ____in.
4. Filter Material: gravel.
Depth of material from trench bottom _____in.
5. Distances To:
Well or Suction Line ____ft.;
Stream _____ft.; Pressure Line ____ft.
Property Line ____ft.
6. Percolation Rate: _____minutes/inch

TYPICAL SKETCHES



Signature of Applicant

APR 4 1979
T 7N, R 12E, Sec 10
Lot 11

April 3, 1979

Mr. Jerry Hood
Lincoln/Lancaster County Health Dept.
2200 St. Mary's Avenue
Lincoln, Nebraska 68502

Re: Shepherd of the Hills Lutheran Church/Hickman, Nebraska

Dear Mr. Hood:

At the request of the Owner, we are forwarding to you under separate cover, complete drawings and specifications on the above-referenced project. We would ask that if you have questions in general or require clarifications on conformance that you direct a letter directly to the Owner (Mrs. Janiece Goin, Chairman, R.R. 1, Box 135, Hickman, Nebraska 68372) with a copy to our engineers on this project, Raymond G. Alvine Associates, 360 Aquila Court, Omaha, Nebraska 68102.

Sincerely,

Robert L. Hanna

RLH/dot

cc: Mrs. Janiece Goin
Mr. Mel Kuhnel
Raymond Alvine Associates

HANNA/RKS
ASSOCIATED ARCHITECTS AND PLANNERS AIA

ROBERT HANNA ARCHITECTS
914 STUART BUILDING, LINCOLN, NEBRASKA 68508 402-432-0223
ROBSON KUHNEL & SPANGENBERG AIA ARCHITECTS & CONSULTANTS
7701 EAST KELLOGG / WICHITA, KANSAS 67207 / SUITE 815 / 316-685-4234

7,7,10

LINCOLN-LANCASTER COUNTY HEALTH DEPARTMENT

2200 St. Marys Avenue Phone (402) 474-1541 Lincoln, Nebraska 68502

E. D. LYMAN, M. D., M.P.H.
DIRECTOR

April 11, 1979

Mrs. Janiece Goin
R.F.D. #1, Box 135
Hickman, NE 68372

Dear Mrs. Goin:

At the direction of the enclosed letter the Health Department has the following comments upon the plans for the Shepherd of the Hills Lutheran Church near Hickman, Nebraska.

1. Water from the footing drains cannot be piped into the sanitary sewerage system. Regulations prohibit this.

2. For strictly worship service usage the size of the septic lateral field need not be of the size projected on the plans.

3. The Food Sanitation Section of the Health Department will be glad to give you guidance on your kitchen equipment i.e., sink, lighting, ventilation, counters, walls. If at some time in the future your church would get into day care, senior diners or some similiar program what may be considered a option now may be required for those programs. You should probably at least be aware of required equipment.

If there are any questions, please contact the Health Department.

Yours truly,

Jerrold C. Hood

Jerrold C. Hood, R.S.
General Sanitation Section
Division of Environmental Health

JCH:kv
Enclosure
cc: Raymond G. Alvine Associates, 360 Aquila Court, Omaha, NE
Lincoln-Lancaster County Health Department, Food Sanitation Section

1
N

Church
10'
Clean out
16'
Sewer 13' North of Southwest corner
Cleanout
70'
Cleanout
32'
Tank
8'
Distribution Box
14'
88'
88'
88'

Nebraska Department of Environmental Quality

Construction Permit No. 06OWT015

is hereby issued to

Shepherd of the Hills Lutheran Church

for the

On-site Wastewater Treatment System

located at

6801 Panama Road, Hickman, NE
NW ¼, NW ¼, Sec. 10, T7N, R7E
Lancaster County

Pursuant to a Delegation Memorandum dated January 12, 1999, and signed by the Director, the undersigned hereby executes this document on behalf of the Director.

Signed November 6, 2006

Patrick W. Rice

Patrick W. Rice, Assistant Director

Suite 400, The Atrium, 1200 "N" Street, P. O. Box 98922, Lincoln, Nebraska, 68509-8922
Phone (402) 471-2186, Fax (402) 471-2909, e-mail Pubinfo@mail.deq.state.ne.us

STATE OF NEBRASKA

Dave Heineman
Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY
Michael J. Linder
Director
Suite 400, The Atrium
1200 'N' Street
P.O. Box 98922
Lincoln, Nebraska 68509-8922
Phone (402) 471-2186
FAX (402) 471-2909
website: www.deq.state.ne.us

October 13, 2006

Paul Brungardt, P. E.
Brungardt Engineering, LLC
1209 A Avenue, Suite 5
Kearney, NE 68848-2052

RE: Shepherd of the Hills Lutheran Church – Lancaster County
Title 124 Permit Application Project 06-OWT-015

Dear Mr. Brungardt,

The Department has reviewed the submittal, received October 10, 2006, for the project described above and have the following comments or questions.

1. The drain field and lift station are located near the entrance and parking lot. Please indicate what will be done to prevent vehicles or snow removal equipment from parking or driving on the drain field and lift station.

2. The proposed sewer line from the septic tanks to the lift station is located under the existing building. Will this sewer line be installed by boring under the building? Could this be installed around the building?

3. I have contacted Steve Fischbein with this department and he has not received an updated UIC application. Please note that we are unable to complete our review of this project until UIC requirements have been resolved.

If you have any questions, please call me at (402) 471-4260 or Gary Buttermore, P.E. at (402) 471-8283.

Sincerely,

Curtis Christiansen

Curtis Christiansen
Review Engineer
Technical Assistance Section

CC: John Chess, LLCHD, 3140 N Street, Lincoln, NE 68510
Chris Scow, Shepherd of the Hills Lutheran Church, 6801 Panama Rd. Hickman, NE 68372
Dwight Bishop, Brown Development, 915 Brewster Road, Holdrege, NE 68949
Steve Fischbein, NDEQ

An Equal Opportunity/Affirmative Action Employer
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STATE OF NEBRASKA

Dave Heineman
Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY
Michael J. Linder
Director
Suite 400, The Atrium
1200 'N' Street
P.O. Box 98922
Lincoln, Nebraska 68509-8922
Phone (402) 471-2186
FAX (402) 471-2909
website: www.deq.state.ne.us

Chris Scow, Chairman
Shepherd of the Hills Lutheran Church
6801 Panama Road
Hickman, NE 68372

NOV 0 6 2006

RE: Onsite Wastewater Treatment System
NW1/4 ,NW 1/4, Sec. 10, T7N, R7E, Lancaster County

Construction Permit No. **06-OWT-015**

Dear Mr. Scow,

Documents, including addenda 1 – 4, describing the above-referenced project have been approved and stamped accordingly. Pursuant to Neb. Rev. Stat. Sec. §81-1506(2)(Reissue 1987), a permit for construction (enclosed) is hereby granted.

Compliance with minimum sanitary engineering design criteria was the only consideration in the review of this project and items such as quality of material, structural soundness, electrical and mechanical design features were not considered unless specifically noted in the review comments. However, this approval does not in any way release the owner from the responsibility of providing an operable facility.

Construction shall be as described in the approved documents. If, for any reason, major changes are necessary, written approval must be obtained from this Department before proceeding.

One set of documents is being made a part of this Department's records, and the remaining documents are being returned to the submitting engineer for distribution.

A construction completion card is being sent to the submitting engineer, who must complete, sign and return the card as soon as the information is available. The engineer's signature on this card verifies construction is in compliance with the approved plans and specifications. After the Department has received the construction completion card from the engineer, and the system has been properly registered, the Department will then evaluate for compliance and issue an operating permit for the on-site wastewater treatment system if all regulatory requirements have been met.

If you have any questions please contact Gary Buttermore, P.E. at (402) 471-8283.

Sincerely,

Patrick W. Rice
Assistant Director

PWR/gwb/ccc
Cc: Paul Brungardt, Brunardt Engineering, 1209 A Avenue, Suite 5, Kearney, NE 68848-2052
John Chess, LLCHD, 3140 N Street, Lincoln, NE 68510

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Lincoln-Lancaster County Health Department

ENVIRONMENTAL PUBLIC HEALTH DIVISION

3140 N STREET · LINCOLN, NE 68510-1514

(402) 441-8000

008939

Permit

SEWAGE INSTALLATION
SEPTIC SYSTEM

Permit # 06380319401

Issued 04/03/06
Expires 04/03/07
Revenue Code 3157

Establishment

SHEPHERD OF THE HILLS LUTHERAN
T7N R7E SEC 10
LOT 25IT
6901 PANAMA RD-HICKMAN

FEES: $275.00

Permittee

PAUL WEBER FOR
SHEPHERD OF THE HILLS LUTHERAN
6901 PANAMA RD
HICKMAN NE 68372

TOTAL: $275.00

Bruce D. Dart

Bruce D. Dart, Health Director

EPH COPY

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

A

Permit Number: 06380 31 9401

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 6801 Panama Road (no rural route) City Hickman NE, Zip 68372

Legal Description 1/4 10 1/4 Section 7N Township 7E Range ____ Subdivision ____ Addition ____ Block 25 Lot I.T.

Geographical Location (if known): Longitude ____ Latitude ____

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

B. Owner

Name Shepherd of Hills Lutheran Church Signature Paul Weber

Address 6801 Panama Road City/State/Zip Hickman Ne 68372

☐ Check if owner designed system Home Phone ____ Work Phone (402) 791-2901

C. Contractor

Name Paul Weber Company Name Weber Well

Address 10133 Willow Cove Lane City/State/Zip Firth Ne 68358

☒ Check if contractor designed system Work Phone (402) 791-3008

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

Designer Name Paul Weber Firm ____ Work Phone ____

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 ____ Type of Wastewater: ☒ Domestic ☐ Non-Domestic.

DO NOT WRITE BELOW THIS LINE

Approval Process ☐ Municipal Code 24.38 ☒ County Resolution No. 2832

1. **Health Department** Date rec'd 4/3/06 Date frwd 5/17/06 ACTION ☒ Approved ☐ Disapproved Signature Jerrold C. Wood
2. **Supt. Bldg. Insp. or Village Clerk** Date rec'd ____ Date frwd ____ ACTION ☒ Approved ☐ Disapproved Signature Ron Klute
3. **City or County Engineer** Date rec'd 5-17-06 Date frwd 5-17-06 ACTION ☐ Approved ☐ Disapproved Signature Larry Worrell

Installation Final Written Approval

By Doug Thrun

Date 3/15/07

Business Office Use Only

Date Rec'd 04/03/06

Amt Paid 275.00

Rec'd By ____ Cash/Check No. 6076

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: 063803194

Sewage Disposal System
Soil Absorption Test Data Report
Annex to Application

PLEASE PRINT OR TYPE

System Location (Indicate correct number and street)

Address 6901 Panama RD (no rural route) City Hickman NE, Zip 68372

Owner Shepherd of the Hills Church Address

Soil Type (SCS): Clay and Black Very Wet Percolation Rate: mi

Date of Tests 3-27-06 to 3-28-06 Weather: Precipitation Wet Temperature 45°

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 (Min/in
E 1	24"	3-27	800	3-28	800	3-28	800	6"	3-28	830	30 min	1/2"	
O 2								6"				1/2"	
3								6"				1/2"	
O 4								6"				3/4"	
5								6"				1/4	
O 6								6"				1/4	
W													

Sum of Percolation Rates:

Average of Rates:

Rate Used for Calculation:

Person Conducting Percolation Tests

Name: Carl Weis

Phone: 787-2070

Address 36201 SW 29th Martell NE 68404

DO NOT WRITE BELOW THIS LINE

Reviewing Action

Remarks

Signature of Reviewing Official Date

FORM 22-101 10-96

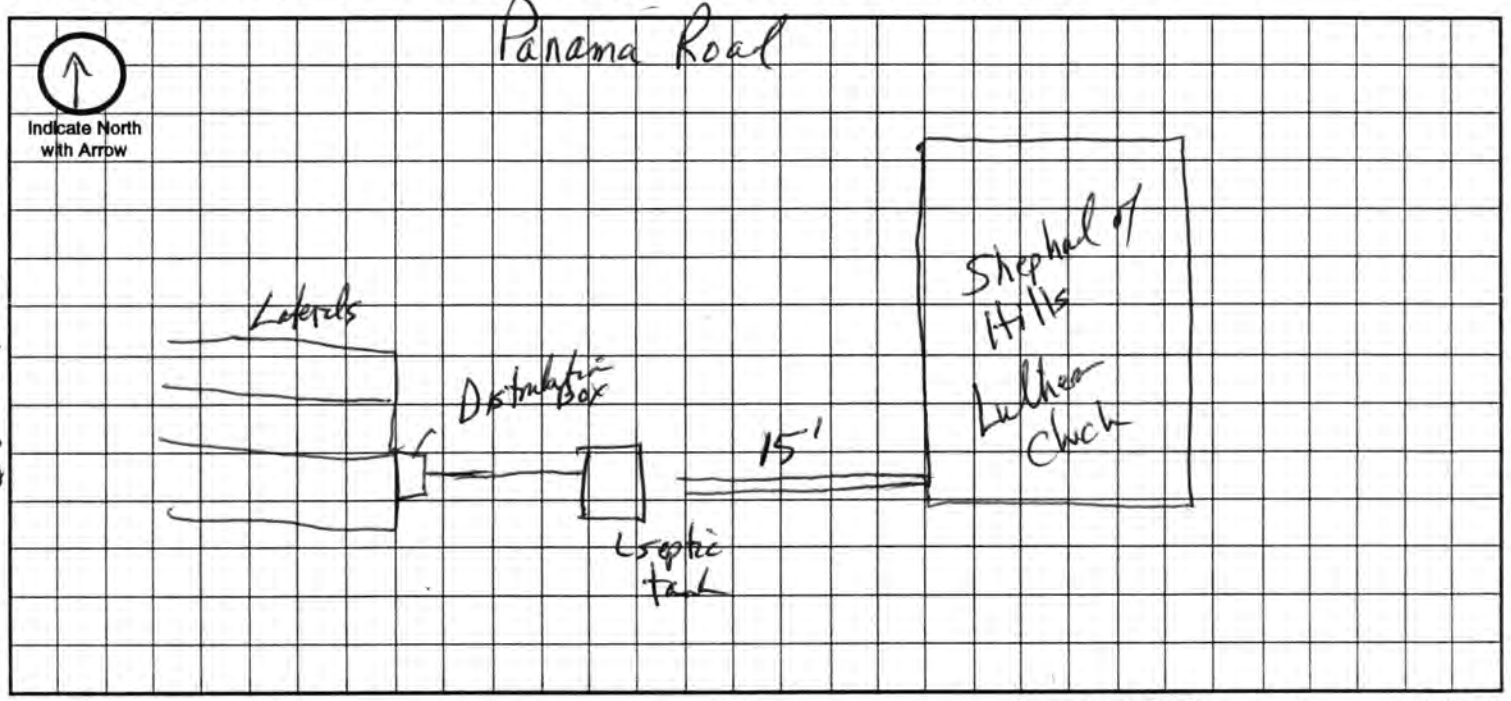
Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

C

Permit Number: 06380394

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) 6901 Panama Road City Hickman NE, Zip 68352

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: Clay and Blade Land Slope: _____ %

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

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

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

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

Total Length of Laterals _____ ft. Number of Trenches _____ Trench Width _____

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 Paul Weber Weber Well Date 4-3-06

FORM 23-102 10-96

BROWN
CHURCH DEVELOPMENT GROUP

MIDWEST DIVISION:
915 Brewster Rd.
P.O. Box 940
Holdrege, NE 68949

GREAT LAKES DIVISION:
1146 N. Main St.
P.O. Box 7659
Algonquin, IL 60102

(888) 879-1338
www.churchdevelopment.net

May 16, 2006

Jerry Hood
Lincoln/Lancaster County Health Department
3140 N St.
Lincoln, NE 68510

Fax 402 441 3890

Re: Hickman Shepherd of the Hills Lutheran Church

Jerry,

Please be advised that Brown Church Development Group assumes full liability for proceeding with the foundation work prior to DEQ approval on the septic system on the above captioned project. Furthermore, Brown holds the Lincoln/Lancaster County Health Department, the City of Lincoln and Hickman Shepherd of the Hills Lutheran Church harmless for any and all costs that may be incurred due to possible redesign of the septic system and/or removal and reconstruction of site grading work, foundations and slab.

Please call if you have any questions.

Mike Leigh
Vice President
Brown Construction, Inc.
mike@churchdevelopment.net

Jerry - please place in file

JUL 17 2006

STATE OF NEBRASKA

Dave Heineman
Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY
Michael J. Linder
Director
Suite 400, The Atrium
1200 'N' Street
P.O. Box 98922
Lincoln, Nebraska 68509-8922
Phone (402) 471-2186
FAX (402) 471-2909
website: www.deq.state.ne.us

July 13, 2006

Paul Brungardt, P. E.
Brungardt Engineering, LLC
1209 A Avenue, Suite 5
Kearney, NE 68848-2052

RE: Shepherd of the Hills Lutheran Church – Lancaster County
Title 124 Permit Application Project 06-OWT-015

Dear Mr. Brungardt,

The Department has reviewed percolation rates information conducted by HWS. The percolation rates are considerably slower than the 60 min/inch submitted on the original submittal. Therefore the sizing of the drainage field can no longer be based on Table 14.1 of Title 124, and will require redesigning the treatment system.

For projects where the seepage rate exceeds 120 min/inch the department recommends construction of a lagoon or some type of small package treatment plant.

However, the Department has issued a few permits for absorption fields at sites with slow percolating soils. For these projects the absorption field is designed based on a minimum absorption field area of 800 ft^2/100 GALLONS OF WASTEWATER PER DAY.

These projects must also have adequate room for construction of a future lagoon, if needed. Therefore, if you decide to design an absorption field system according to the sizing criteria mentioned above, there must also be an area, available, that is large enough for construction of a lagoon. The absorption field can be reused for construction of a lagoon provided the area is large enough and the future lagoon meets all setback requirements included in Title 124. Therefore in your re-submittal of the construction documents, please show drawings with the absorption field and alternate drawings showing a lagoon. Title 124, Chapter 14, 020 also requires dosing for systems over 500 linear feet in length to distribute the flow more uniformly across the absorption field.

Please note that when you re-submit your new design, Form B will also need to be submitted with signatures and the necessary revision to such items as seepage rate, etc.

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If you have any questions, please call me at (402) 471-8283 or Gary Buttermore, P.E. at (402) 471-8283.

Sincerely,

Curtis Christiansen

Curtis Christiansen
Review Engineer
Technical Assistance Section

CC: John Chess, LLCHD, 3140 N Street, Lincoln, NE 68510
Chris Scow, Shepherd of the Hills Lutheran Church, 6801 Panama Rd. Hickman, NE 68372
Mike Moseley, Brown Development, 915 Brewster Road, Holdrege, NE 68949

MAY 17 2006

BROWN
CHURCH DEVELOPMENT GROUP

MIDWEST DIVISION:
915 Brewster Rd.
P.O. Box 948
Holdrege, NE 68949

GREAT LAKES DIVISION:
1146 N. Main St.
P.O. Box 7659
Algonquin, IL 60102

(888) 879-1338
www.churchdevelopment.net

May 16, 2006

Jerry Hood
Lincoln/Lancaster County Health Department
3140 N St.
Lincoln, NE 68510

Fax 402 441 3890

Re: Hickman Shepherd of the Hills Lutheran Church

Jerry,

Please be advised that Brown Church Development Group assumes full liability for proceeding with the foundation work prior to DEQ approval on the septic system on the above captioned project. Furthermore, Brown holds the Lincoln/Lancaster County Health Department, the City of Lincoln and Hickman Shepherd of the Hills Lutheran Church harmless for any and all costs that may be incurred due to possible redesign of the septic system and/or removal and reconstruction of site grading work, foundations and slab.

Please call if you have any questions.

Mike Leigh
Vice President
Brown Construction, Inc.
mike@churchdevelopment.net

STATE OF NEBRASKA

Dave Heineman
Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY
Michael J. Linder
Director
Suite 400, The Atrium
1200 'N' Street
P.O. Box 98922
Lincoln, Nebraska 68509-8922
Phone (402) 471-2186
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JC ✓
DS ✓
JH ✓
file with LLCHD Application

June 7, 2006

Paul Brungardt, P. E.
Brungardt Engineering, LLC
1209 A Avenue, Suite 5
Kearney, NE 68848-2052

RE: Shepherd of the Hills Lutheran Church – Lancaster County
Title 124 Permit Application
Project 06-OWT-015

Dear Mr. Brungardt,

We have reviewed the large capacity septic system design for Shepherd of the Hills Lutheran Church, Lancaster County and have the following comments or questions.

1. On Form B there were several items important to the review of the project that were left incomplete on the form. Some examples of items not completed include, Design Flow, Type of Wastewater, Soil Type, Land Slope, and the Setback distances at the bottom of the form. Please revise the enclosed Form B and submit.

2. In your cover letter you indicated a copy of a boring log was included in the submittal. We did not receive the boring log information. Please provide a copy of this report.

3. The inlet and outlet to the septic tanks need to comply with Title 124, Chapter 8. The inspection ports need to be a minimum of 6 inches rather than 5 inches. There needs to be a 1-inch gap between the inlet and outlet and the inspection ports. The invert of the inlet piping needs to be 2 inches above the invert of the outlet piping (the inlet and outlet may meet this requirement however, there was no scale given for the tank drawings for us to verify this requirement). Please verify that the septic tanks are in compliance with Nebraska septic tank design standards.

4. Please inform the owner that the system is not designed for uses such as preschool or day school type activities. Therefore, any future plans for any type of use such as a preschool will also require upgrading of the septic system.

5. In the general notes at the top of the drawings it requires installation and maintenance in accordance with the city of Nebraska City regulations. It is recommended the notes be

amended to require compliance with Lincoln-Lancaster County Health Department regulations.

6. It is recommended you evaluate the hydraulic profile of the system. The elevation of the septic tank inlet is given as 94.29 and the outlet invert elevation is given as 94.54. It is assumed these elevations were reversed but please verify elevation. The bottom of the trenches are at elevation 93.5. The invert of the piping in the chamber system is 6 inches above this or at elevation 94. This elevation is higher than the outlet elevation of the distribution box (93.5). Also there is only 0.29 feet of head difference between the outlet of the septic tanks and the invert elevation of the chamber system if 94.29 is the correct outlet elevation. Please revise and comment.

7. Dosing is recommended when more than 500 feet of distribution line is needed and required when more than 1000 feet of distribution line is needed. Since you are in this range of between 500 feet and 1000 feet it is recommended you consider dosing for this system.

8. The service line from the building to the septic tanks should comply with local plumbing codes. Please verify the slope of the service line complies with local plumbing codes.

9. The submitted percolation tests were conducted by Carl Weis. Title 124 requires that soil percolation tests be conducted by a professional engineer, registered environmental health specialist, or a certified professional holding a certificate in the category of Inspector, Soil Evaluator, Master Installer, or Journeyman Installer (Chapter 6, Section 001). Our records do not indicate Mr. Weis is currently certified in any category. Consequently these test results are not acceptable.

10. Soil survey maps of this location indicate depth is very critical to the seepage rate and corresponding design of the drainage area. When the percolation measurements are made please be sure the test holes are at the appropriate elevation of the drainage trenches (approximately 93.5). Please test at the appropriate depth and provide the actual percolation test records along with a scaled site diagram showing the location and depth of each percolation test hole.

11. The plans indicate a 4 inch drinking water service line enters the existing building from the west. There is no other information regarding the water service line or water main provided on the plans. Please locate the water service line and water main and verify that the water line and water main meet all setback requirements in Chapter 5 of Title 124. Also the water main appears to cross the service line to the septic tanks. Unless local plumbing codes are more stringent, the construction of the service line should comply with Ten States Standards 38.32.

12. Per a conversation I had with Steve Fischbein, a Class V Injection Well Authorization Application along with required supporting data needs to be submitted to the department before we can issue a construction permit. Please contact Mr. Fischbein at (402) 471-4290 with questions.

Review of this application will continue once this information is received. If you have any questions please contact me at (402)471-4260 or Gary Buttermore at (402) 471- 8283.

Sincerely,

Curtis Christiansen

Curtis Christiansen
Review Engineer
Technical Assistance Section

CC: John Chess, LLCHD, 3140 N Street, Lincoln, NE 68510
Chris Scow, Shepherd of the Hills Lutheran Church, 6801 Panama Rd. Hickman, NE 68372