LINCOLN-LANCASTER COUNTY HEALTH DEPARTMENT

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

NON TRANSFERABLE

PERMIT

Permit No. 98380177801

SEWAGE INSTALLATION
LAGOON

Issued 06/18/98
Expires 12/18/98
Revenue Code 3157

FEES: $150.00

PAID

TOTAL $150.00

Establishment

MARK C TVRDY
T9N R6E SEC 16
SILVER BELL ESTS LOT 10
1201 W SILVER BELL CT

Permittee

MARK C TVRDY
1821 GLYNN CIR
LINCOLN NE 68522

Issued By Health Director
Lincoln-Lancaster County Health Department

007629

THIS LICENSE OR PERMIT IS ISSUED SUBJECT TO REVOCATION AS PROVIDED BY LAW "POST IN A PROMINENT PLACE"

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 1201 W Silver Bell Ct. (no rural route) City Lincoln NE, Zip 68522

Legal Description 1/4 16 1/4 Section 9N Township 6E Range SILVER BELL ESTATES Subdivision Addition 10 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 Mark C Tvrdy Signature Mark C Tvrdy

Address 1821 Glynn Cr. City/State/Zip Lincoln Ne. 68522

☐ Check if owner designed system Home Phone 477-2234 Work Phone 474-8434

C. Contractor

Name Brad Southwick Company Name Southwick Sewer & Drain

Address 17201 So 72nd City/State/Zip Hickman Ne 68372

☐ Check if contractor designed system Work Phone 475-2462/430-7606

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

Designer Name _____ Firm _____ Work Phone _____

E. This System Will Serve a

☒ Residential Dwelling Number of Bedrooms 3 Is there a Whirlpool Bathtub 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. 2832

1. **Health Department** Date rec'd 6/18/98 Date frwd 6/18/98 ACTION ☒ Approved ☐ Disapproved Signature Jerrold C. Hood
2. **Supt. Bldg. Insp. or Village Clerk** Date rec'd 6.18.98 Date frwd 6.18.98 ACTION ☒ Approved ☐ Disapproved Signature _____
3. **City or County Engineer** Date rec'd 6-18-98 Date frwd 6-18-98 ACTION ☒ Approved ☐ Disapproved Signature _____

Installation Final Written Approval

By John Thun Note

Date 10-15-98

Business Office Use Only

Date Rec'd 06/18/98
Amt Paid 150 CK
Rec'd By _____ Cash/Check No. 3133

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

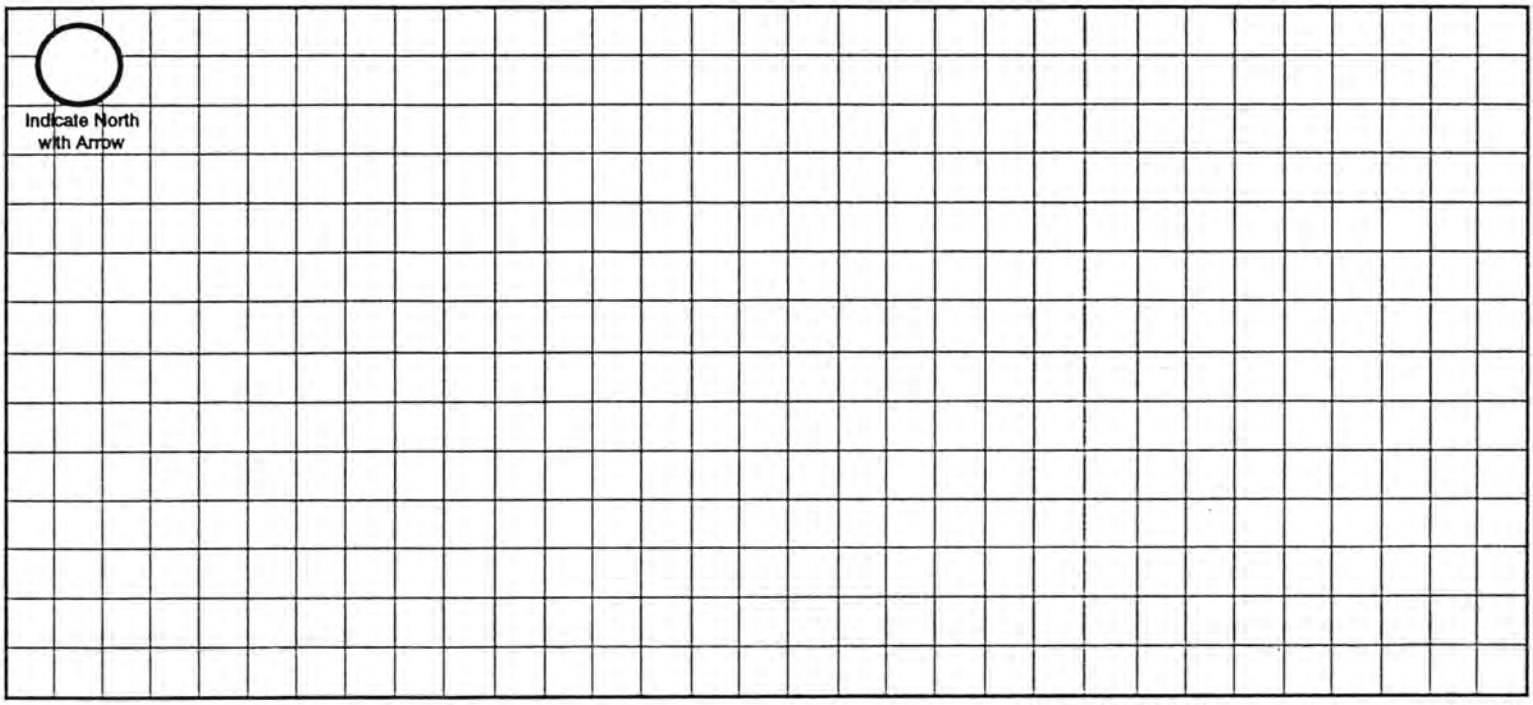
Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

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) _____ City _____ NE, Zip _____

B. Proposed Septic Tank/s

Tank Material: ☐ Concrete ☐ Plastic ☐ Other _____

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

Percolation Rate _____ (min. per inch) Soil Type: _____ 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 Schroeder Const Co Date _____

Installer _____ Date _____

FORM 23-102 10-96

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 10-98

System Location (Indicate correct number and street)

Address 1201 W. Silver Bell Ct. City _____ NE, Zip _____
(no rural route)

A. Building Sewer

1. Material: PVC
   Diameter: 4" in.
2. Distance above basement floor: _____ in.
   or distance below basement floor: 9 in.
3. Distance between dwelling and septic tank: 90 ft.
4. Number of clean-outs: 2
5. Distances to: well or suction line > 50 ft.
   stream NA ft.
   pressure line NA ft.
   property line > 5 ft.

B. Septic Tank

1. Material: Concrete
   Number of compartments: 1
2. Capacity: 1250 gal.
3. Factory built: ☒ Yes ☐ No
4. Manholes: Over inlet, diameter 6x9 in.
   Over outlet, diameter 6x9 in.
   Riser: ☐ above ☐ below grade _____ in.
5. Inlet: ☒ baffle ☐ tee
6. Outlet: ☒ baffle ☐ tee
7. Depth to top of tank, below unfinished grade: 10 in.
8. Distances to: Well or suction line > 50 ft.
   Stream NA ft.
   Pressure line NA ft.
   Property line > 20 ft.

C. Distribution Box

1. Material: PVC
   Number available outlets: 5
2. Factory built: ☒ Yes ☐ No
3. Distance from septic tank: 14 ft.

D. Absorption Field

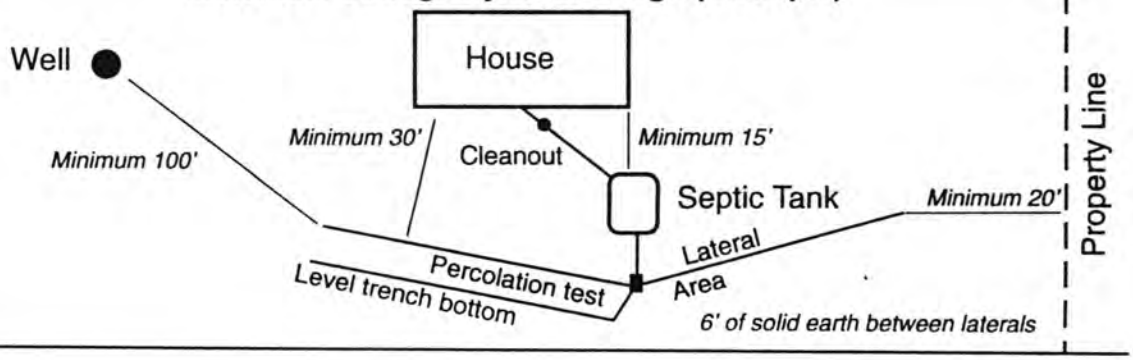
(Provide as-built drawings on back of this form)

1. Type: ☒ Half rounds ☐ Perforated pipe
   Diameter of half round: 12
   or perforated pipe: _____
   Material: ☐ fiberglass ☒ plastic ☐ concrete
   ☐ other _____
2. Lateral lines: Number _____
   Length of each line: 68 ft. 68 ft.
   68 ft. 68 ft., _____ ft.
3. Trench dimensions: Width 5 ft.
   Slope 3 in/100 ft.
   Average depth 37 in
4. Filter material: Road Gravel
   Depth of material 18 in.
5. Distances to: Well or suction line > 100 ft.
   Stream NA ft.
   Pressure line > 35 ft.
   Property line > 20 ft.

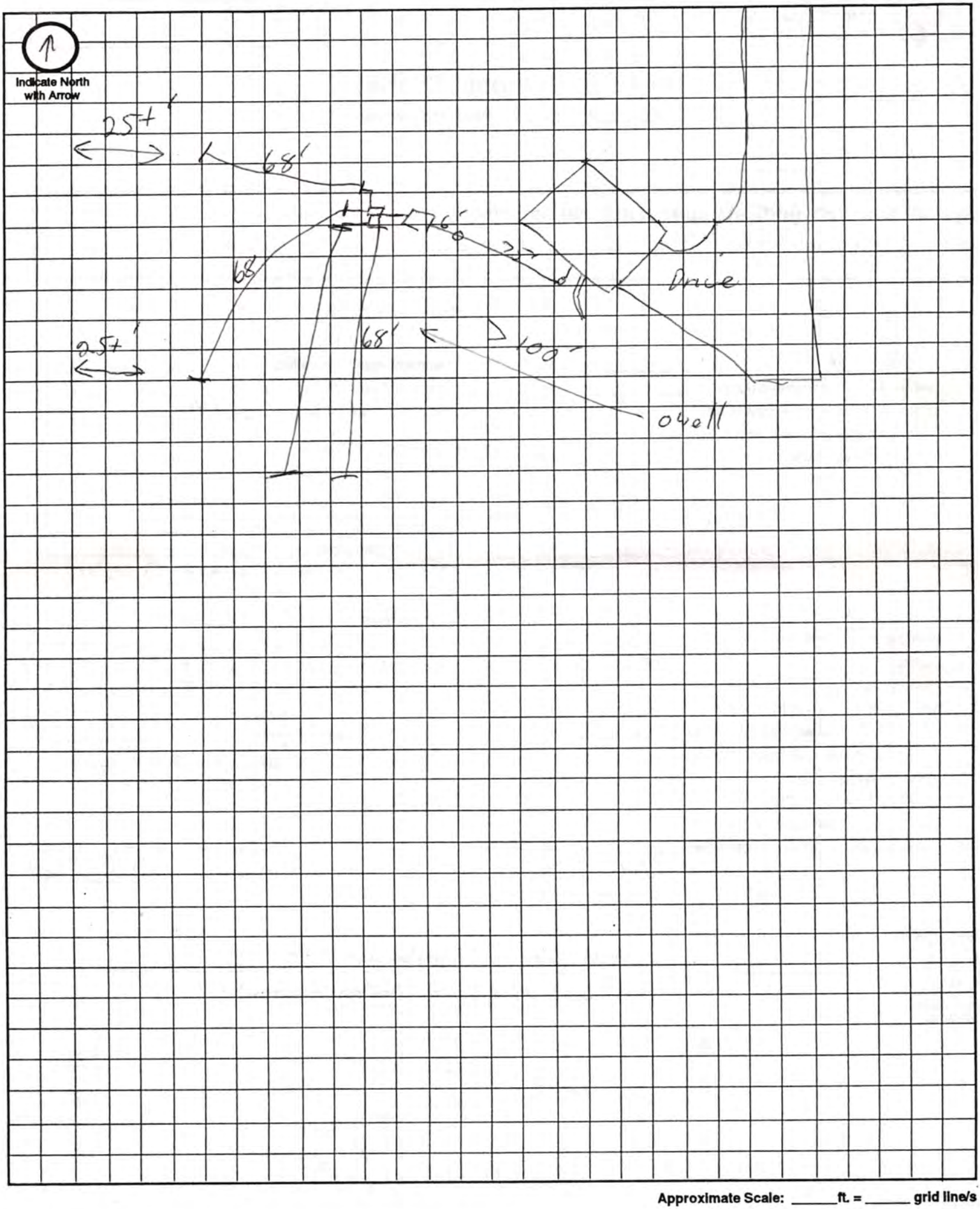
Indicate North with Arrow

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

Individual Sewage System Design (Example)



As Built Drawing



Approximate Scale: _____ft. = _____ grid line/s

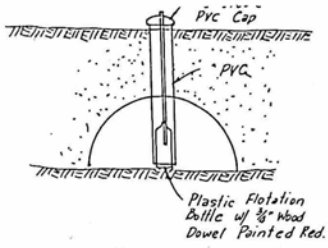
EVAPOTRANSPIRATION/ABSORPTION SYSTEM

OWNER:	Mark & Mary Tvrdy
ADDRESS:	1201 West Silver Bell Court
LEGAL:	Lot 10, Silver Bell Estates NE 1/4, Section 16, T.9 N., R.6 E.
SIZE OF HOUSE:	4 Bedrooms
DESIGN FLOW:	4 BR x 150 gal/day/BR =600 gal/day
PERCOLATION RATE:	120 minutes/inch
EVAPORATION LOSS:	8" per year = 0.0135 gal/sq ft/day
ABSORPTION RATE:	Allowable Absorption based on Formula: $Q = \frac{5}{\sqrt{t}}$ t = Percolation Rate For t = 120 min/in, Q = 0.456 gal/day
TOTAL LOSSES:	0.013 + 0.456 = 0.469 gal/sq ft/day
REQUIRED AREA:	600 gal/day ÷ 0.469 = 1278 sq ft 1278 sq ft x 25% = 320 sq ft Equalizer 24 Infiltrator Base Area 320 sq ft ÷ 10.41 sq ft per chamber = 30.7 chambers Use 4 trenches with 8 Equalizer 24 Infiltrator Chambers per trench Each Trench to be 5' wide x 67' long 32 Equalizer 24 Infiltrator Chambers @ 33.3 gal = 1066 gal. 2.04 gal/cu ft of Wicking Sand x 2538 cu ft = 5178 gal Total Storage Volume = 6243 gal.

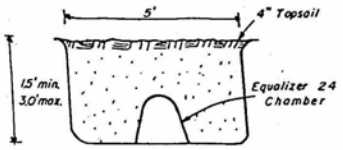
NOTE: The Contractor shall excavate an inspection pit to confirm that a 4' separation can be maintained from any seasonal water table (perched or otherwise) or impermeable clay or rock layer.

It is recommended that a water meter be installed on the water supply so that the Owner can monitor their water use and ensure that not more than 600 gallons per day are being used.

It may be necessary to adjust the orientation of the trenches so that the minimum (1.5') and maximum (3.0') depths are not exceeded.



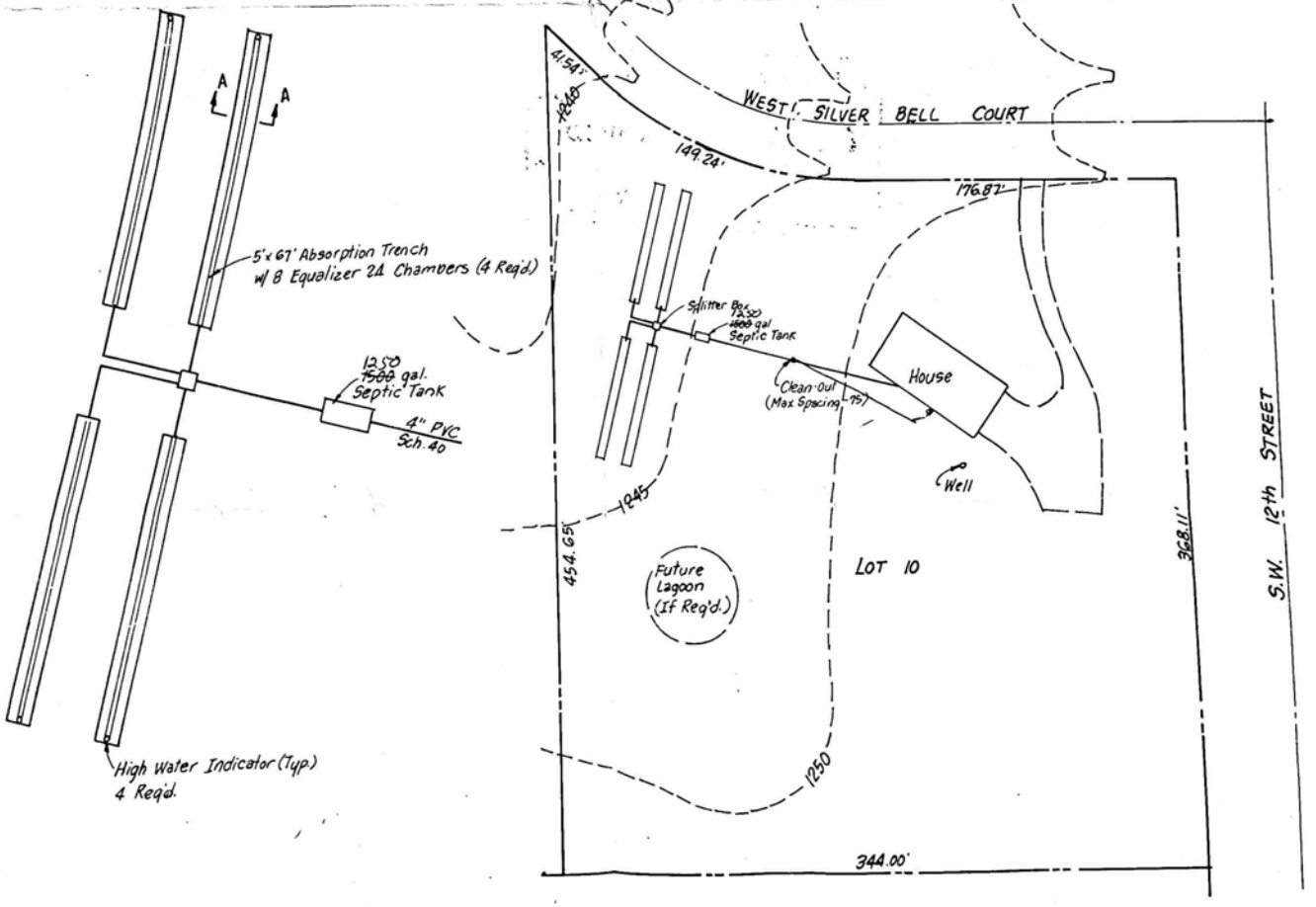
HIGH WATER INDICATOR
(4 Req'd.)



SECTION A-A

Pollution Control Project
APPROVED
9/30/98
P.E.

DEPARTMENT OF ENVIRONMENTAL QUALITY
SEP 22 1998
RECEIVED



Mark & Mary Trvdy 1201 W. Silver Bell Court	EVAPORATION/TRANSPIRATION/ABSORPTION SYSTEM	**Garber & Work, Inc.** Lincoln, Nebraska ENGINEERING • ARCHITECTURE Scale: 1"=50' Date: 9-21-98	Dr 95

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