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

A

Permit Number
HS002359

Onsite Wastewater Treatment System Permit Application

Include Form B and C. Submit correct fee with this Application

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

PLEASE PRINT OR TYPE

A. Onsite System Location

Address* 5990 WATERS EDGE DRIVE City LINCOLN, NE Zip 68524
(no rural route)

Legal Description 18 9 8 WHISPERING CREEK 1ST ADDITION 2 1
1/4 1/4 Section Township LC Range Subdivison Addition Block Lot

PID 22-18-206-001-000 *Approx. Address (If to be determined)

B. Owner MURRAY HOME DESIGNS

Name SCOTT MURRAY Signature

Address 8348 ROCKLEDGE RD # 708 City/State/Zip LINCOLN, NE 68510

Home Phone 402-610-3201 Work Phone

C. Certified Installer

Name: JAIME KUBIK Signature

Address 105 LOCUST STREET P.O. BOX 191 City/State/Zip HICKMAN, NE 68372

Work Phone 402-475-2202

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 5 Whirlpool Bathtub? ☐ Yes ☐ No Total Acres 3.02
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

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 2-8-22 Amount Paid 450.00
Received By LC Cash/Check No CC1078

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

Lincoln-Lancaster County Health Department
Environmental Public Health Division (402) 441-8027
3131 O Street Lincoln, Nebraska 68510-1514

ON-SITE WASTE WATER SYSTEM
CONSTRUCTION - INSTALLATION PERMIT
No. HS002359

System Type: Lagoon

Situs: No Site Address Specified

Issued: 2/9/2022

Expires: 2/9/2023

Description:

Owner: KANTER, BRIAN & SARAH
9345 RAVENWOOD LN
LINCOLN, NE 68526

Patricia D. Lopez

Patricia D. Lopez, RN, MSN, 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.

Patricia D. Lopez

Patricia D. Lopez, RN, MSN
Health Director

SCOTT MURRAY
8348 ROCKLECDGE RD #708
LINCOLN, NE 68506

LINCOLN LINCOLN-LANCASTER COUNTY HEALTH DEPARTMENT

OMAHA NE 680

10 FEB 2022 PM 3 L

neopost
02/10/2022
US POSTAGE $000.53

FIRST-CLASS MAIL

ZIP 68510

REC'D MAR 10 2022

SCOTT MURRAY
8348 ROCKLECDGE RD #708
LINCOLN, NE 68506

NIXIE 681 EE 1 2203/07/22

RETURN TO SENDER
NOT DELIVERABLE AS ADDRESSED
UNABLE TO FORWARD

BC: 68501151414 *1535-00295-10-43

68501-151414

SCANNED

A

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

Permit Number
HS002359

Onsite Wastewater Treatment System Permit Application

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

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

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B. Owner

MURRAY HOME DESIGNS

Name SCOTT MURRAY Signature
Address 8348 ROCKLEDGE RD #708 City/State/Zip LINCOLN, NE 68506
Home Phone 402-610-3201 Work Phone

C. Certified Installer

Name: JAIME KUBIK Signature
Address 105 LOCUST STREET P.O. BOX 191 City/State/Zip HICKMAN, NE 68372
Work Phone 402-475-2202

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 5 Whirlpool Bathtub? ☐ Yes ☐ No N/a Total Acres 3.02
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

1. Health Department
Site visits
Comments
Date rec'd 2/22/22
Date frwd 2/22/22
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 12/1/23 500

Business Office Use Only
Date Received 2-8-22 Amount Paid 450.00
Received By LC Cash/Check No CC1078

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

Form A Updated: 4/15

Nate C. Hartman

From: Jason Kubik <southwicksewer@yahoo.com>
Sent: Wednesday, February 8, 2023 8:44 PM
To: Nate C. Hartman
Subject: 5990 Waters Edge
Attachments: 080-W2-009_5990 Waters Edge_Dwgs_2022-08-09 (2).pdf

Nate

Here are Dana's drawings for the system

Jason and Jaime Kubik

Southwick Liquid Waste
Office: 402-475-2462
www.southwickliquidwaste.com

Front Water Engineering LLC

2022

22OWT___

NDEE I.D. NO.___

OWT - 5990 Waters Edge Drive, Lincoln, NE 68526

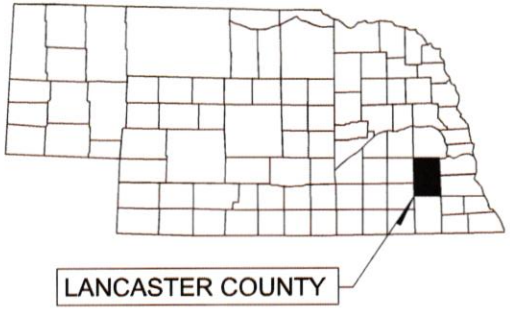
Onsite Wastewater Treatment System

Lot 1, Block 2, Whispering Creek 1st Addition, Lincoln, NE 68526

N1/2 of Section 18, Township 09N, Range 08E of the 6th P.M. Lancaster County, Nebraska

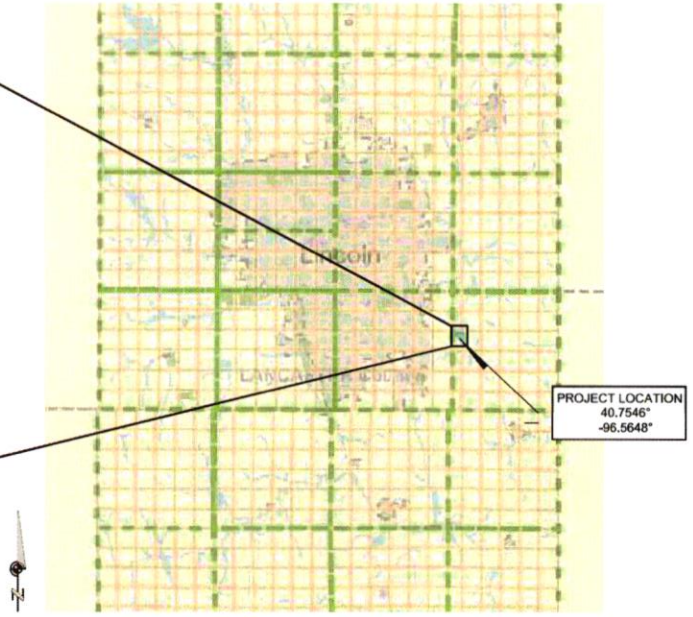
INDEX OF DRAWINGS

SHT. NO.	SHEET NAME
1	TITLE SHEET, LOCATION MAP & INDEX
2	OVERALL SITE PLAN, DESIGN DATA & NOTES
3	SITE PLAN
4	SEPTIC TANKS & PUMP TANK DETAILS
5	ABSORPTION FIELD DETAILS





VICINITY MAP
NOT TO SCALE



PROJECT LOCATION MAP
NOT TO SCALE

HALF SIZE
THIS DRAWING HAS BEEN REDUCED FROM ITS ORIGINAL SIZE BY HALF. ALL DIMENSIONS AND SCALES SHALL BE ADJUSTED ACCORDINGLY.

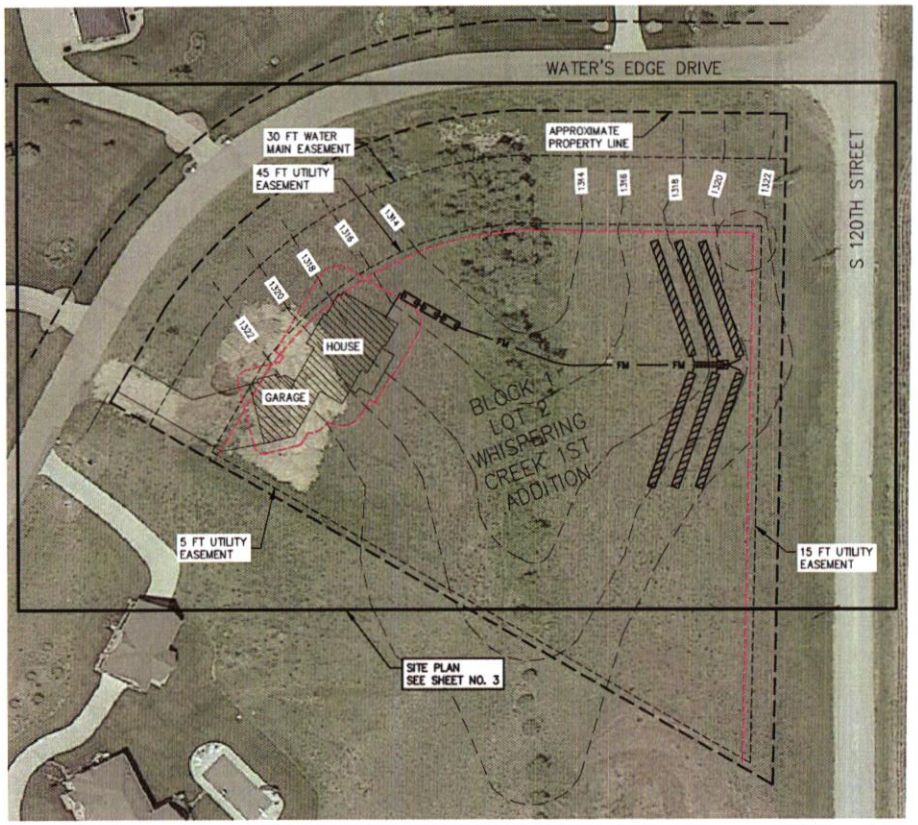
OWT - Lt 1, Blk 2, Whispering 1st Creek, 5990 Waters Edge Dr., Lincoln, NE

AUG 2022

© 2022 Frontwater Engineering, LLC
18 Merriweather Drive 11 Johnson Lake, Nebraska 68937 Phone: 308.746.2470

PROJECT NO. 080-W2-009

PLOTTED: 8/9/2022 11:24 AM SAVED: 8/9/2022 9:49 AM G:\Projects\080 - Southwick Liquid Waste OWTs\080-W2-009_5990 Waters Edge\Dwg\080-W2-009_5990 Waters Edge.dwg



CAUTION:
UNDERGROUND UTILITIES NOT SHOWN ON THIS PLAN. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING LOCATE REQUEST AS REQUIRED BY STATE LAW. ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR LOCATION OR DAMAGE OF UTILITIES AS A RESULT OF CONTRACTOR'S WORK.

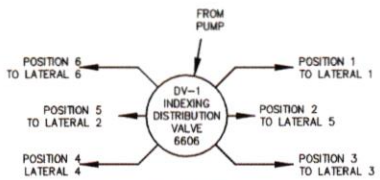
OVERALL SITE PLAN

SCALE: 1"=40'

40 20 0 40 80
SCALE: 1" = 40'

GENERAL NOTES:

1. LOCATION OF PROPERTY LINES, UTILITIES, WATER LINES AND BUILDINGS WERE NOT SURVEYED AND ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR ONSITE MEASUREMENT AND VERIFICATION OF ALL REQUIRED DIMENSIONS.
2. COUNTOURS ARE DIGITAL REPRESENTATIONS FROM GOOGLE EARCH AND WERE NOT SITE SURVEYED. CONTRACTOR IS RESPONSIBLE FOR SITE ELEVATION VERIFICATION TO ENSURE DISTRIBUTION VALVE IS INSTALLED AT THE HIGH POINT.
3. CONTRACTOR IS RESPONSIBLE FOR UTILITY LOCATION NOTIFICATION BY CALLING 811.
4. ALL WORK SHALL BE IN ACCORDANCE WITH NDEQ/NDEE TITLE 124 REGULATIONS INCLUDING, BUT NOT LIMITED TO, VERIFICATION OF SETBACK DISTANCES, LOCATIONS AND ELEVATIONS OF EXISTING FEATURES, CONSTRUCTION AND REGISTRATION OF THE SYSTEM.
5. ALL WORK SHALL BE PERFORMED BY NDEQ/NDEE TITLE 124 CERTIFIED INDIVIDUALS AS REQUIRED BY REGULATION.
6. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY MAJOR CHANGES NECESSARY FOR THE CONSTRUCTION OF THE ON-SITE SYSTEM.
7. CONTRACTOR IS RESPONSIBLE FOR SETTING UP HORIZONTAL AND VERTICAL CONTROL FOR THE CONSTRUCTION OF THE ON-SITE SYSTEM.
8. NOT ALL FITTINGS CALLED OUT. CONTRACTOR SHALL PROVIDE SCH40 PVC FITTINGS AS REQUIRED FOR INSTALLATION.
9. ALL GRAVITY SEWER PIPE SHALL BE 4" DIAMETER SCH40 PVC. SLOPE OF PIPES TO TANKS SHALL BE AT 2% (1/4 IN/FT) MIN.
10. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ACCURATE AS-RECORDED (AS-BUILT) DRAWINGS WITH DIMENSIONS AND ELEVATIONS TO ENGINEER FOR RECORDS
11. RESTORATION OF THE SITE, INCLUDING BUT NOT LIMITED TO, GRADING, LANDSCAPING, SEEDING OR SODDING AND VEGETATING SHALL BE COMPLETED BY CONTRACTOR OR COORDINATED WITH OWNER.



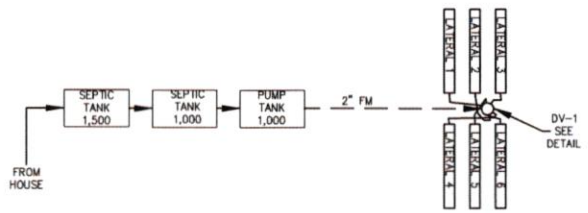
DV-1 DETAIL

NOT TO SCALE

DESIGN DATA	
DESIGN FLOW	
NO. OF BEDROOMS	6
DESIGN FLOW	700 GPD
SEPTIC TANKS	
ST-1	1,500 GAL
ST-2	1,000 GAL
TOTAL SEPTIC TANK VOLUME	3,000 GAL
EFFLUENT FILTER	
CAPACITY (MIN.)	1,000 GPD
EFFLUENT PUMP TANK	
CAPACITY	1,000 GAL
NO. OF PUMPS	1
PUMP OPERATING RANGE (APPROX.)	30 GPM @ 42 FT 40 GPM @ 46 FT
TDH	
SPECIFIED PUMP(S)	ZOELLER 161
PUMP CONTROL	TIME DOSED
DOSE VOLUME	3-4X LATERAL VOLUME 40-50± GAL
LATERAL DOSE	2X-3X PER DAY

ABSORPTION SYSTEM DESIGN DATA	
SOIL AND SITE DATA	
SITE SOILS	CLAY
SITE PERCOLATION RATE	120+ MPI
GROUNDWATER (AT ABSORPTION SITE)	10-20 FT
ABSORPTION FIELD SYSTEM	
CONCEPT	TRENCH LATERALS WITH PRESSURE DISTRIBUTION
NO. OF LATERALS	6
DESIGN FLOW PER LATERAL	117 GPD
TOTAL DESIGN FLOW	700 GPD
LATERAL LOADING RATE	0.3 GPD/S.F.
AREA REQUIRED (TOTAL)	2,334 S.F.
LATERAL (TRENCH) WIDTH	5 FT
LATERAL LENGTH	80 FT
LATERAL AREA	400 S.F
TOTAL AREA	2,400 S.F.
MATERIAL	EZ FLOW
LATERALS	
DISTRIBUTION	END
DIAMETER & MATERIAL	2" SCH 40 PVC
LATERAL VOLUME	13 GAL
HOLE SPACING	2 FT C-C
HOLE DIAMETER	3/16 IN.
NO. OF HOLES PER LATERAL	40
DISCHARGE PER HOLE, DESIGN	0.75 TO 1.0 GPM
DISCHARGE PER LATERAL	30 TO 40 GPM
DISTRIBUTION TO LATERALS	
DISTRIBUTING (INDEX) VALVE	6 OUTLET (6606)

DESIGN DATA



FLOW SCHEMATIC

NOT TO SCALE

HALF SIZE
THIS DRAWING HAS BEEN REDUCED FROM ITS ORIGINAL SIZE BY HALF. ALL DIMENSIONS AND SCALES SHALL BE ADJUSTED ACCORDINGLY.

Front Water Engineering LLC
19 Merriweather Dr. 111 • Johnson Lake, NE 68937 • 308.746.2470

REVISIONS

NO.	DATE

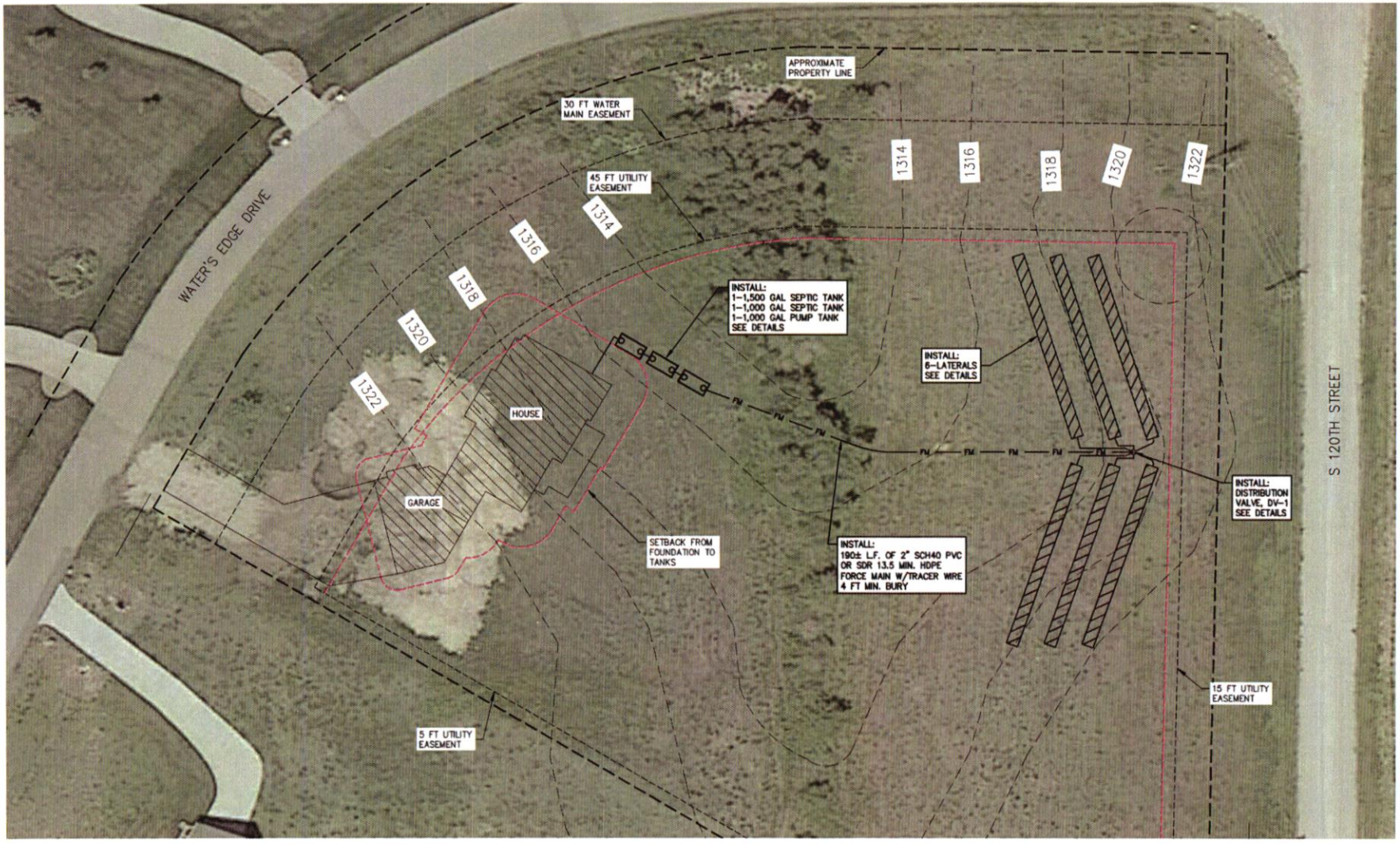
OWT - 5990 Waters Edge Dr.

OVERALL SITE PLAN, NOTES & DESIGN DATA

Lincoln, Lancaster County, Nebraska

SCALE: SEE SHT HORIZONTAL NONE VERTICAL
PROJECT NO. 080-W2-009
DRAWN BY: CAD
CHECKED BY: DLP
DATE: Aug 2022
SHEET 2 OF 6

PLOTTED: 8/9/2022 11:25 AM SAVED: 8/9/2022 9:49 AM G:\Projects\080 - Southwick Liquid Waste OWT\080-W2-009_5990 Waters Edge\Dwg\080-W2-009_5990 Waters Edge.dwg



CAUTION:
UNDERGROUND UTILITIES NOT SHOWN ON THIS PLAN. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING LOCATE REQUEST AS REQUIRED BY STATE LAW. ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR LOCATION OR DAMAGE OF UTILITIES AS A RESULT OF CONTRACTOR'S WORK.

SITE PLAN
SCALE: 1"=20'

SCALE: 1" = 30'

HALF SIZE
THIS DRAWING HAS BEEN REDUCED FROM ITS ORIGINAL SIZE BY HALF. ALL DIMENSIONS AND SCALES SHALL BE ADJUSTED ACCORDINGLY.

Frontier Water Engineering PLLC
18 Bentwealther Dr. 11 • Johnson Lake, NE 68937 • 308.746.2470

REVISIONS

NO.	DATE

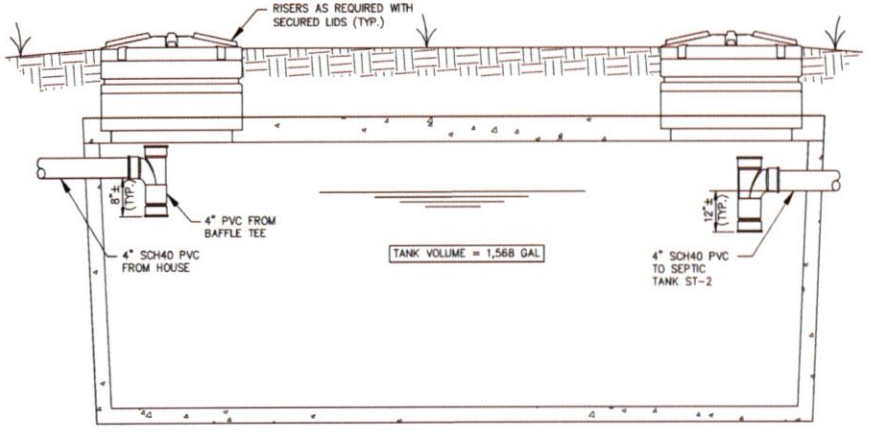
OWT - 5990 Waters Edge Dr.
SITE PLAN
Lincoln, Lancaster County, Nebraska

SCALE: SEE SHT HORIZONTAL
NONE VERTICAL
PROJECT NO. 080-W2-009
DRAWN BY: CAD
CHECKED BY: DLP
DATE: Aug 2022
SHEET 3 of 5

PLOTTED: 8/9/2022 11:22 AM SAVED: 8/9/2022 9:49 AM G:\Projects\080 - Southwick Liquid Waste OWTS\080-W2-009_5990 Waters Edge\Dwg\080-W2-009_5990 Waters Edge.dwg

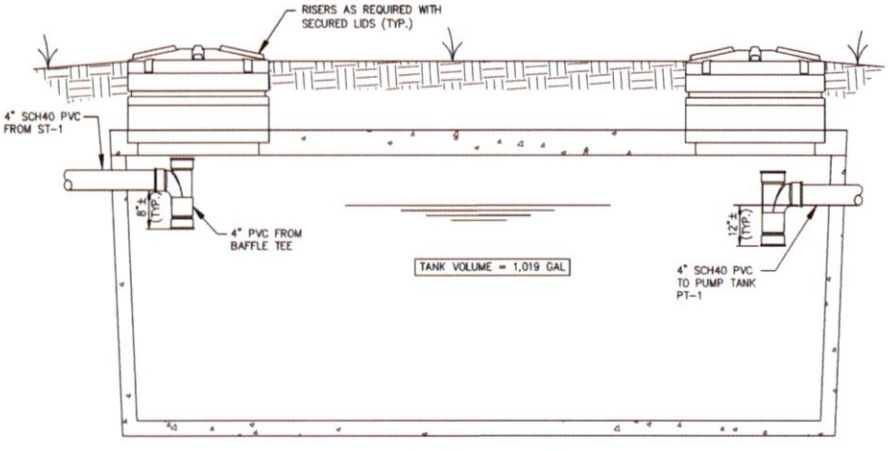
SEPTIC TANK NOTES:

1. SEPTIC TANKS SHALL COMPLY WITH TITLE 124.
2. SEPTIC TANKS SHALL BE HAVE NOMINAL CAPACITY AS SHOWN.
3. TANKS SHALL BE PRE-CAST CONCRETE WITH BITUMINOUS WATER PROOF COATING.
4. INLETS AND OUTLETS SHALL BE EQUIPPED WITH BAFFLE TEES AND EXTENSIONS WITH INLET NO MORE THAN 20% OF THE LIQUID DEPTH AND THE OUTLET NO MORE THAN 40% OF THE LIQUID DEPTH.
5. EACH TANK SHALL HAVE TAG WITH NAME OF MANUFACTURER, ADDRESS AND TANK CAPACITY.
6. EACH SEPTIC TANK SHALL BE BEDDED AND BACKFILLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS OR AS DIRECTED BY ENGINEER.



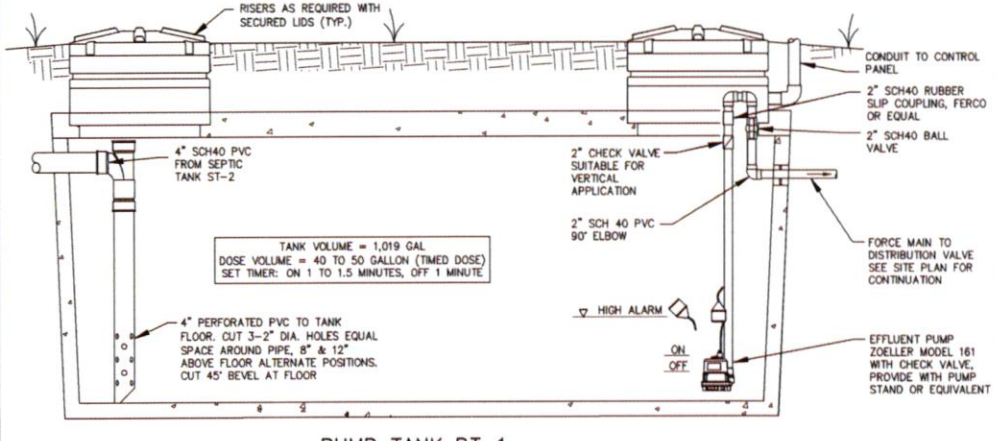
SEPTIC TANK ST-1

NOT TO SCALE



SEPTIC TANK ST-2

NOT TO SCALE

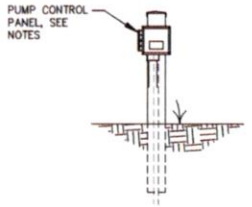


PUMP TANK PT-1

NOT TO SCALE

PUMP TANK NOTES:

1. PUMP SHALL BE CAPABLE OF BEING REMOVED WITHOUT ENTERING PUMP TANK.
2. PUMP SHALL BE ZOELLER MODEL 161 OR EQUAL, CAPABLE OF PUMPING APPROXIMATELY 30 GPM AT 42 FT OF HEAD TO 40 GPM AT 46 FT OF HEAD.
3. FLOATS SHALL BE SET TO PROVIDE DOSE VOLUME AS INDICATED ON THE DETAIL AND MAY BE ADJUSTED IN THE FIELD TO ACHIEVE PERFORMANCE.
4. DUE TO FORCE MAIN ELEVATIONS AND VOLUME, PROVIDE A CHECK VALVE ON THE PUMP DISCHARGE.
5. HIGH LEVEL ALARM FLOAT SHALL BE ADJUSTED TO ALARM WHEN THE LEVEL REACHES APPROXIMATELY 4" ABOVE PUMP START FLOAT. THE HIGH LEVEL ALARM SHALL BE ON A SEPARATE CIRCUIT IN THE ELECTRICAL PANEL.
6. PUMP PANEL SHALL BE MODEL 1100 SERIES FROM ALDERON INDUSTRIES, TIME DOSED PANEL OPERATION WITH LOW LEVEL FLOAT SHUT OFF AND HIGH LEVEL FLOAT ALARM & TIMER OVERRIDE.
7. ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT, APPROPRIATELY SIZED AND INSTALLED IN ACCORDANCE WITH THE NEC AND STATE AND LOCAL CODES. PROVIDE AND INSTALL ALL WIRING, CONDUIT, BREAKERS, FASTENERS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.
8. PROVIDE AND INSTALL TREATED WOOD RACK, GALVANIZED STEEL UNI-STRUT RACK OR GALVANIZED PIPE RACK AS SELECTED BY OWNER, TO SECURELY MOUNT ELECTRICAL EQUIPMENT



CONTROL PANEL

NOT TO SCALE

HALF SIZE

THIS DRAWING HAS BEEN REDUCED FROM ITS ORIGINAL SIZE BY HALF. ALL DIMENSIONS AND SCALES SHALL BE ADJUSTED ACCORDINGLY.

Front Water Engineering LLC
19 Merriweather Dr 11 • Johnson Lake, NE 68937 • 308.740.2470

REVISIONS

NO.	DATE

OWT - 5990 Waters Edge Dr.

SEPTIC TANK & PUMP TANK DETAILS

Lincoln, Lancaster County, Nebraska

SCALE: None / None — HORIZONTAL / VERTICAL

PROJECT NO. 080-W2-009

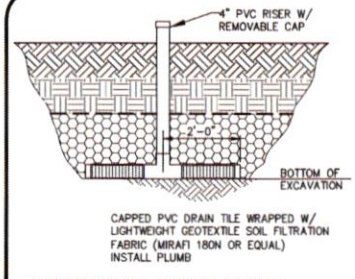
DRAWN BY: CAD

CHECKED BY: DLP

DATE: Aug 2022

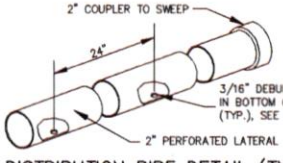
SHEET 4 OF 5

PLOTTED: 8/9/2022 11:22 AM SAVED: 8/9/2022 9:49 AM G:\Projects\080 - Southwick Liquid Waste OWT\080-W2-009_5990 Waters Edge\Dwg\080-W2-009_5990 Waters Edge.dwg



INSPECTION PORT DETAIL

NOT TO SCALE

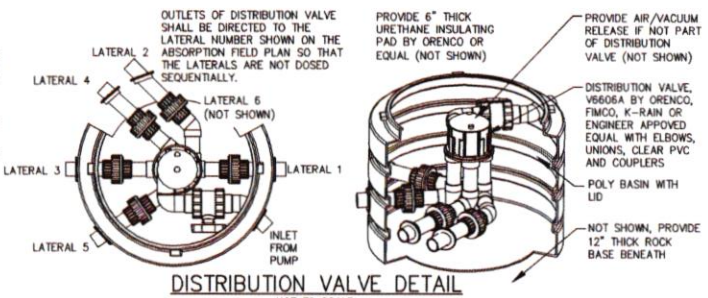


DISTRIBUTION PIPE DETAIL (TYPICAL)

NOT TO SCALE

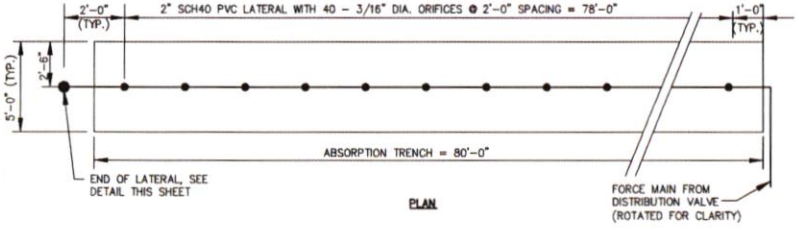
PRESSURE DISTRIBUTION NOTES:

1. PRESSURE DISTRIBUTION PIPE SHALL BE 2" DIA. SCH 40 PVC. ALL FITTINGS SHALL BE SOCKET SOLVENT WELDED SCH 40 PVC. EACH FITTING SHALL BE THRUST BLOCKED WITH 1/3 BAG OF QUICKRETE OR EQUAL.
2. 3/16" DIA. HOLES SHALL BE DRILLED ON 24" CENTERS IN A STRAIGHT LINE IN EACH LATERAL PIPE. HOLES SHALL BE DEBURRED INSIDE AND OUTSIDE. IF HOLES SHOULD BE DRILLED IN BOTTOM OF PIPE IN A STRAIGHT ALIGNMENT. EACH LATERAL MUST DRAIN BETWEEN CYCLES TO PREVENT FREEZING.
3. EACH LATERAL SHALL BE TERMINATED WITH A SWEEP CLEAN-OUT ASSEMBLY WITH THREADED CAP OR THREADED PLUG.

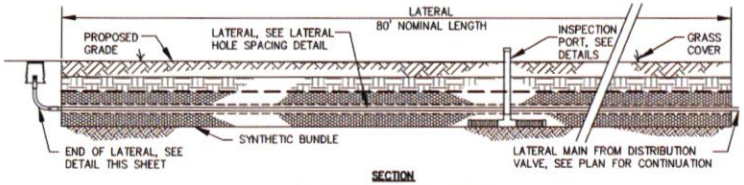


DISTRIBUTION VALVE DETAIL

NOT TO SCALE



PLAN



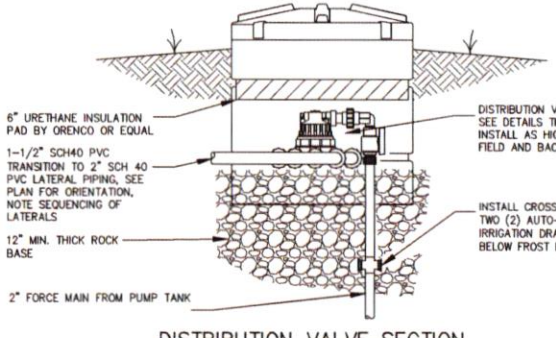
SECTION

PRESSURE LATERAL

NOT TO SCALE

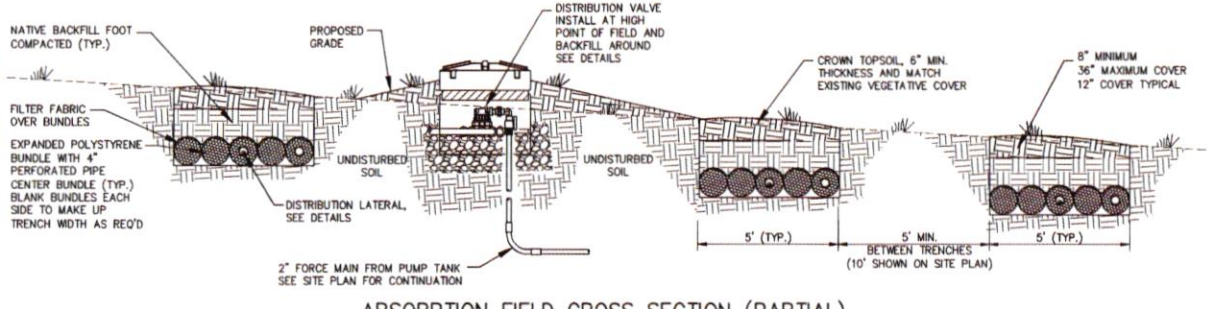
ABSORPTION FIELD NOTES:

1. BOTTOM OF TRENCH EXCAVATION SHALL BE LEVEL USING AN INSTRUMENT FOR ACCURACY. BOTTOM AND SIDES OF TRENCH SHALL BE EXCAVATED IN A MANNER TO LEAVE SOIL AS NATURAL, UNCOMPACTED AND UNSMEARED AS POSSIBLE.
2. EXCAVATION SHALL NOT BE PERMITTED WHEN SOILS ARE EXCESSIVELY WET.
3. TRENCHES SHALL BE TOPPED WITH 6" OF TOPSOIL AND CROWNED ABOVE FINISHED GRADE TO ALLOW FOR NATURAL SETTLING.
4. AREA SHALL BE RESEEDED, COORDINATE WITH OWNER.



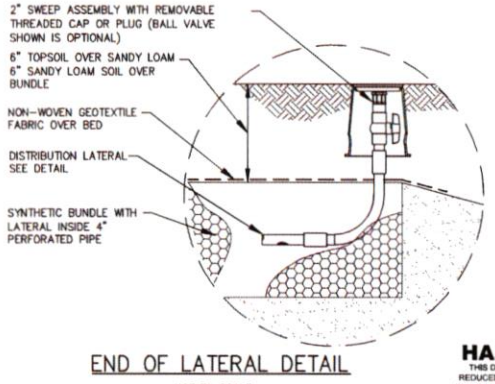
DISTRIBUTION VALVE SECTION

NOT TO SCALE



ABSORPTION FIELD CROSS SECTION (PARTIAL)

NOT TO SCALE



END OF LATERAL DETAIL

NOT TO SCALE

HALF SIZE

THIS DRAWING HAS BEEN REDUCED FROM ITS ORIGINAL SIZE BY HALF. ALL DIMENSIONS AND SCALES SHALL BE ADJUSTED ACCORDINGLY.

Front Water Engineering, LLC
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REVISIONS

NO.	DATE

OWT - 5990 Waters Edge Dr.

ABSORPTION FIELD DETAILS

Lincoln, Lancaster County, Nebraska

SCALE: None / None — HORIZONTAL / VERTICAL
PROJECT NO. 080-W2-009
DRAWN BY: CAD
CHECKED BY: DLP
DATE: Aug 2022
SHEET 5 OF 5

PLOTTED: 8/9/2022 11:22 AM SAVED: 8/9/2022 9:49 AM G:\Projects\080 - Southwick Liquid Waste OWT\080-W2-009_5990 Waters Edge\Dwg\080-W2-009_5990 Waters Edge.dwg