



Septic Permit Application

Planning & Development Services · 1800 Continental Place · Mount Vernon WA 98273
voice 360-416-1320 · inspections 360-416-1330 · www.skagitcounty.net/planning

Permit #:

Septic permits are issued by Skagit County Public Health. Submit your application for processing at the Planning & Development Services permit counter, or by mail with the appropriate fee and attachments.

Project & Property Information

Tell us about your project and its proposed location.

Site Address	16163 Andal Lane	City	Mount Vernon	Zip	98274
Parcel No(s)	27883				

Attachments

- Design (if required)
- Soil Evaluation (if required)

Prerequisites Unless one of the boxes below are checked, items 1-3 are required:

- Site evaluation with no design
- Repair with no expansion of footprint
- Permit inside city/town limits/ tribal jurisdiction and I have provided or attached written authorization from the city/town/tribe to install or repair a septic system

PDS-use only ↓ Planning & Development Services staff are available to help you complete and explain these requirements.

	<p>1. Lot of Record Certification is required for all development.¹ Check one of the boxes that applies below. If you do not have lot certification, apply for lot certification with Planning & Development Services.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lot certification is recorded under Auditor's File Number _____. Nothing further required. <input type="checkbox"/> The lot has an existing dwelling unit that was constructed prior to July 1, 1990, according to Assessor records, but lot certification was not recorded. Lot certification file number is _____. <input type="checkbox"/> The lot was properly platted and approved by Skagit County on or after March 1, 1965, and has no restriction barring future development, but lot certification was not recorded. Lot certification file number is _____. <input type="checkbox"/> The lot has an approved but unrecorded lot certification. Lot certification number _____. Recording fee is required.
	<p>2. Critical Areas Review is required for septic permits. If you have not previously completed critical areas review for your parcel, apply at Planning & Development Services and attach your approval letter. Your application will be rejected if critical areas review is not complete for your location. Critical Area File number _____.</p>
	<p>3. Ag-NRL Siting Criteria. Is this project in the Agricultural-Natural Resource Land zone?</p> <ul style="list-style-type: none"> <input type="checkbox"/> No. Nothing further required. <input type="checkbox"/> Yes. Please note: <ul style="list-style-type: none"> • Location of the septic system must comply with the siting criteria in SCC 14.16.400(6) and the Administrative Official Interpretation March 16, 2010. • On a parcel larger than 1 acre, you must demonstrate three years of income from your own commercial agricultural production on the parcel averaging at least \$100 per acre per year for the last three years in order to construct a residence.

Fees

Site evaluation	<input checked="" type="checkbox"/> Site evaluation (\$300 for up to two evaluations at the same site)
	<input type="checkbox"/> Additional evaluations at same site (\$110 x ____ additional evaluations)
Design review	<input checked="" type="checkbox"/> New design (\$550) <input type="checkbox"/> New tank (\$240) <input type="checkbox"/> Repair (\$375) <input type="checkbox"/> Redesign (\$375) <input type="checkbox"/> Renewal (\$225) <input type="checkbox"/> Table 9 Repair (\$375)
Recording fees	<input type="checkbox"/> Lot certification (\$204.50)
Total fees submitted	850
Make check payable to Skagit County Planning & Development Services	

Permit Details

History	Any previous site evaluations or designs for this site? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, describe:			
	What year was work done? 80			
	Name or project file number:			
Site evaluation	<input checked="" type="checkbox"/> Existing lot		<input type="checkbox"/> Proposed lot	
Design type	<input type="checkbox"/> Aerobic/Drip	<input type="checkbox"/> Glendon	<input type="checkbox"/> Packed Bed Filter	
	<input type="checkbox"/> Aerobic/Mound	<input type="checkbox"/> Gravel Filter	<input type="checkbox"/> Sand Filter	
	<input type="checkbox"/> Aerobic/Pressure	<input type="checkbox"/> Gravity with Pump	<input type="checkbox"/> Sand Lined	
	<input type="checkbox"/> Conventional/Gravity	<input type="checkbox"/> Mound	<input type="checkbox"/> Other, describe:	
	<input type="checkbox"/> Conventional/Pressure	<input checked="" type="checkbox"/> Oscar		
System use	<input type="checkbox"/> Residential →	# of bedrooms: 5	# gal/day/bedroom:	total daily flow: 600
	<input type="checkbox"/> Non-residential →	# of occupants:	# gal/day/occupant:	total daily flow:
Proposed subdivision	<input type="checkbox"/> No subdivision proposed			
	<input type="checkbox"/> Short subdivision (2-4 lots)			
	<input type="checkbox"/> Long subdivision (5 or more lots); lot # ___ of ___ lots			
	Proposed subdivision name:			
	Lot size (acres):			

Staff Use Only Below This Line

Inspections

Site evaluation	_____ / _____	Design review	_____ / _____
Soil/site preparation	_____ / _____	Above/below ground devices	_____ / _____
Open trenches	_____ / _____	Pressure test	_____ / _____
Self-inspection	_____ / _____	Installed as designed	_____ / _____
Final inspection	_____ / _____		

¹ SCC 14.06.090(1)(b)



Contact Information & Signature Form

Planning & Development Services · 1800 Continental Place · Mount Vernon WA 98273
voice 360-416-1320 · inspections 360-416-1330 · www.skagitcounty.net/planning

Permit #:
Received by:

Attach this form to an application that requires it. An application will not be accepted without this form.

By signing this form, the undersigned certifies that the statements, answers, and information both on this form and the remainder of this permit application are true and correct to the best of his or her knowledge and belief.

Applicant/Contact

Name John Paul Sanchez Mailing Address 3905 Shelby Rd
 City, State Lynnwood Zip 98287 Phone 626-221-5233
 Email john_paulsanchez@yahoo.com

Property Owner

Same as applicant Multiple owners (attach additional page)

Name _____ Mailing Address _____
 City, State _____ Zip _____ Phone _____
 Email _____

Contractor/Designer/Installer

None Same as applicant Same as property owner

Name Dick Gudmunson Mailing Address POB 2745
 City, State Mount Vernon Zip 98273 Phone 360-424-4137
 Email dick@gudmunsonseptic.com License # 5100222 Expires 03/04/26

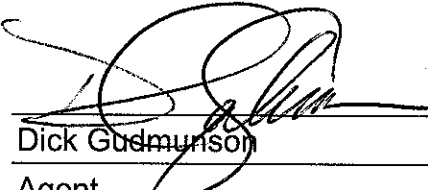
Financing¹

None Lender below is providing construction financing Firm below has issued payment bond

Name _____ Mailing Address _____
 City, State _____ Zip _____ Phone _____

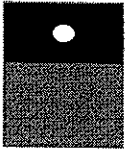
Signature

- I am the owner of the subject property and I grant permission to field staff to enter the site to verify the presence or absence of critical areas and perform inspections of work proposed by this application
- I have attached the Agent Authorization Form(s). Owner's have given their consent (SCC 14.06.090).
- This is a fire suppression permit, mechanical/plumbing permit, on site septic permit, or pre-development/pre-app meeting request; the property owner's authorization is not required.

Signature(s): 
 Printed Name: Dick Gudmunson
 Title: Agent
 Company: Gudmunson Septic

Date: 1/3/25

¹ Required by RCW 19.27.095(2)(d) for building permit applications.



Gudmunson Septic, Inc.

P.O. Box 2745 Mount Vernon, WA 98273
(360)424-4137 • (800)977-2400 • dick@gudmunsonseptic.com

Job # 124163

Client Name Andal Lane

Property ID# 27883

SCALE _____ PAGE _____ OF _____

Soil Logs

Client ANDAL LANE
Date Done 12/03/24

Soil Type 4
Loading Rate .6

Soil Log 1

10" BR, SL
WATER
PROBABLE MAXIMUM WATER TABLE 10"

Soil Log 2

16" BR, SL
WATER
PROBABLE MAXIMUM WATER TABLE 16"

Soil Log 3

3" DK BR, SL
3-24" BR, SL
SAT'D
PROBABLE MAXIMUM WATER TABLE 24"

Soil Log 4

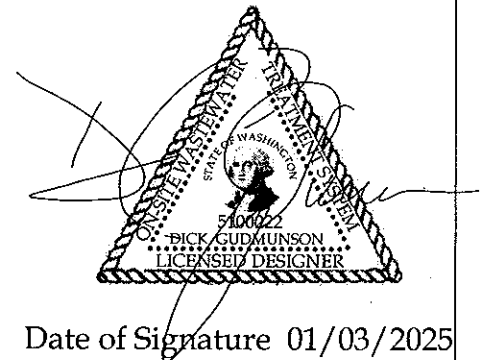
5" DK BR, SL
5-24" BR, SL
SAT'D
PROBABLE MAXIMUM WATER TABLE 24"

Soil Log 5

8" DK BR, SL
8-24" BR, SL
PROBABLE MAXIMUM WATER TABLE 24"

Soil Log 6

5" DK BR, SL
5-24" BR, SL
PROBABLE MAXIMUM WATER TABLE 24"



Date of Signature 01/03/2025

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Job # 124163

Client Name Andal lane LLC

Property ID# 27883

SCALE 1"=100' PAGE OF

Soil logs

~This page is not sufficiently detailed for all phases of installation, please see attached pages for additional details.
~Site, Design and Construction requirements not specifically mentioned shall conform to applicable State and County standards.
~Additional fees will be charged for inspections and as-built. Contact designer regarding times and charges.

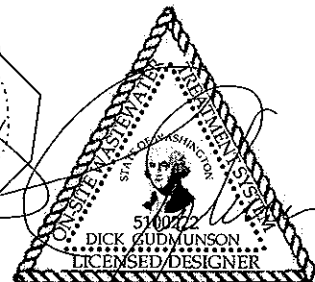
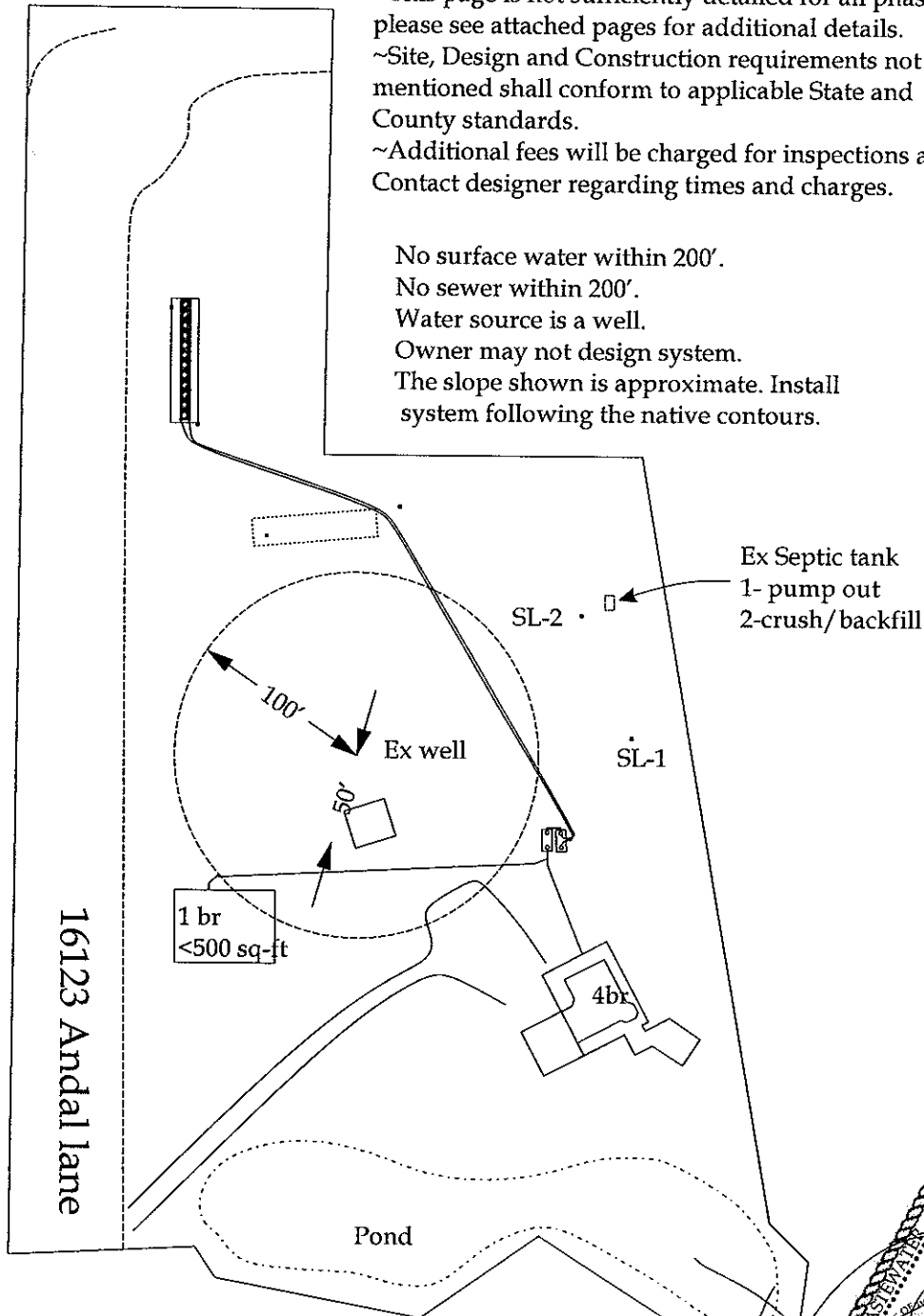
No surface water within 200'.

No sewer within 200'.

Water source is a well.

Owner may not design system.

The slope shown is approximate. Install system following the native contours.



Date of signature 01/03/25

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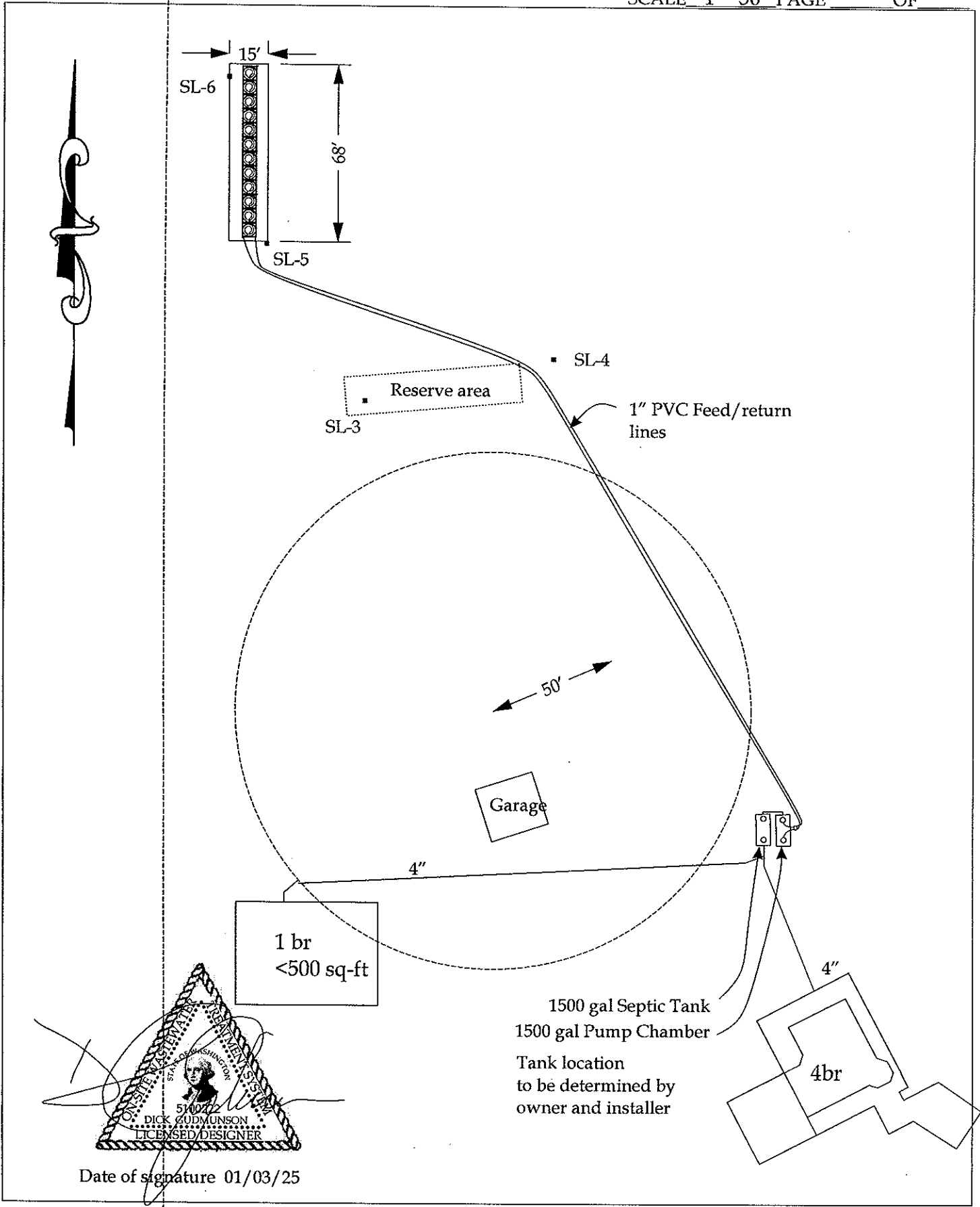
(360)424-4137 • (800)977-2400 • dick@gudmunsonseptic.com

Job # 124163

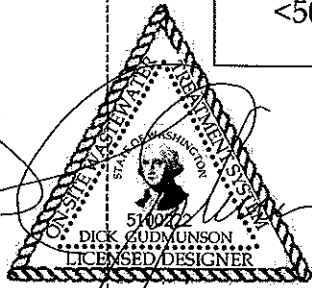
Client Name Andal lane LLC

Property ID# 27883

SCALE 1"=50' PAGE OF



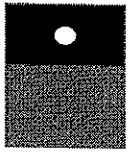
1 br
<500 sq-ft



Date of signature 01/03/25

1500 gal Septic Tank
1500 gal Pump Chamber
Tank location
to be determined by
owner and installer

4br



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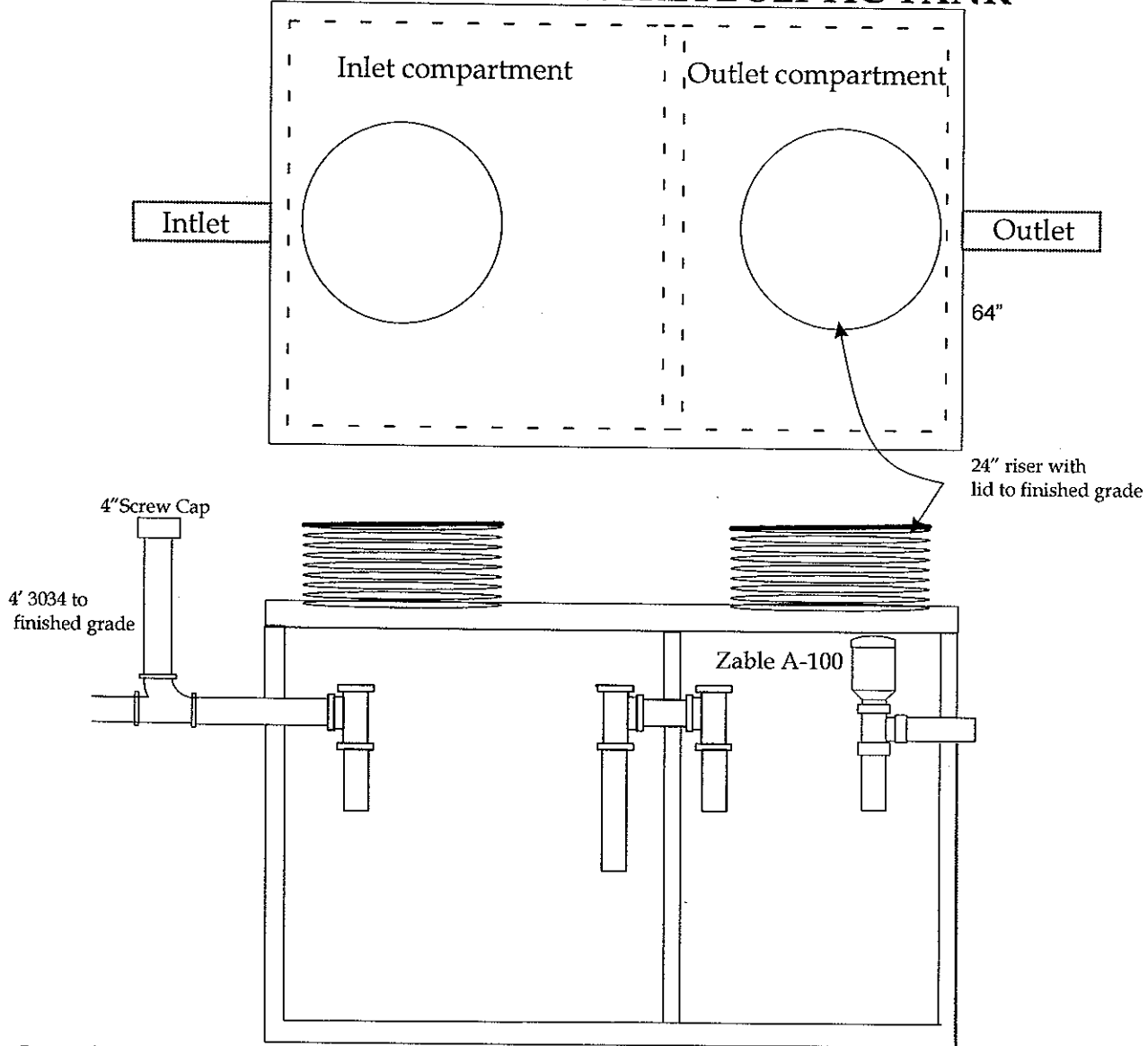
Job # 124163

Client Name Andal Lane

Property ID# 27883

SCALE _____ PAGE _____ OF _____

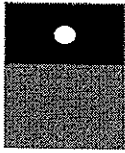
1500 GALLON CONCRETE SEPTIC TANK



General Requirements

- 1) Setback for septic tanks is typically is 50 feet to wells and surface water and 5 feet to buildings. It is the responsibility of installer and or homeowner to confirm.
- 2) Septic tank to be State and County approved and be water tight
- 3) All piping entering and existing tank and riser to be watertight (i.e. gromment, gaske
- 4) All internal fittings shall be of a PVC material and glued in place.

Date of Signature 01/03/2025



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Job # 124163

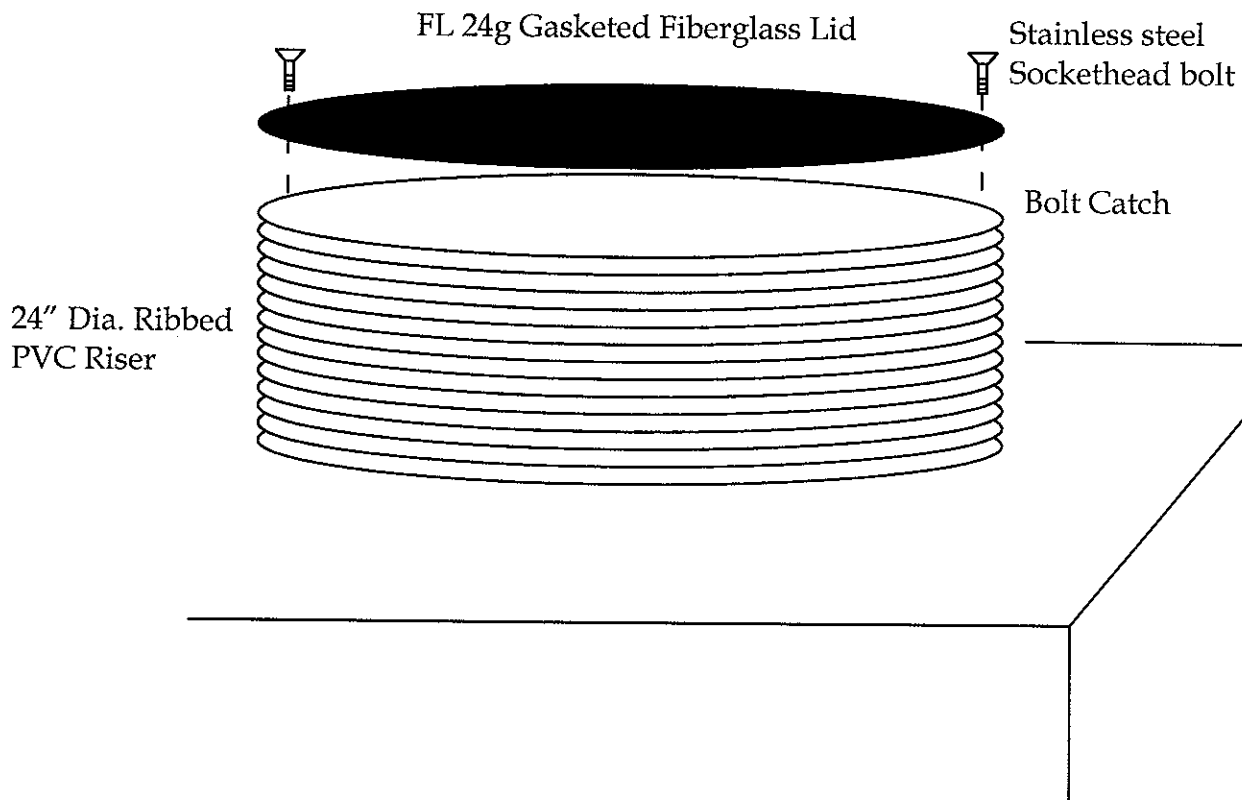
Client Name Andal Lane

Property ID# 27883

SCALE _____ PAGE _____ OF _____

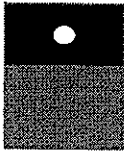
OSI Manhole riser with fiberglass Lid

Manufactured By: Or Equal
Orengo systems Inc.
814 Airway Ave
Sutherlin OR 97479-9012
or equal



Riser are available in lengths up to 13 feet. Risers need to be secured to tank.,
One option is with epoxy OSI model ADHP10. The fiberglass lid is attached
by four stainless steel sockethead bolts which require a allen head to open and close.
THIS TYPE OF RISER IS NOT SUITABLE FOR VEHICLE TRAFFIC AREAS

Date of Signature 01/03/2025



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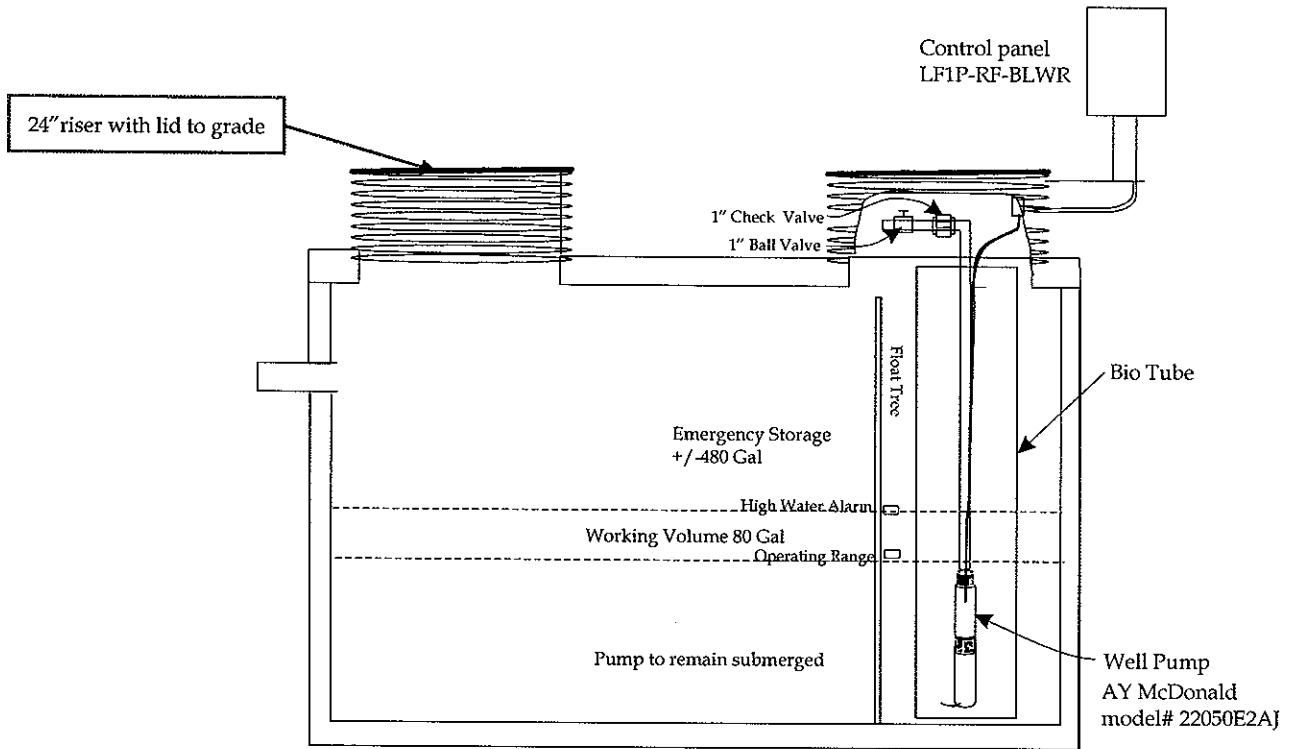
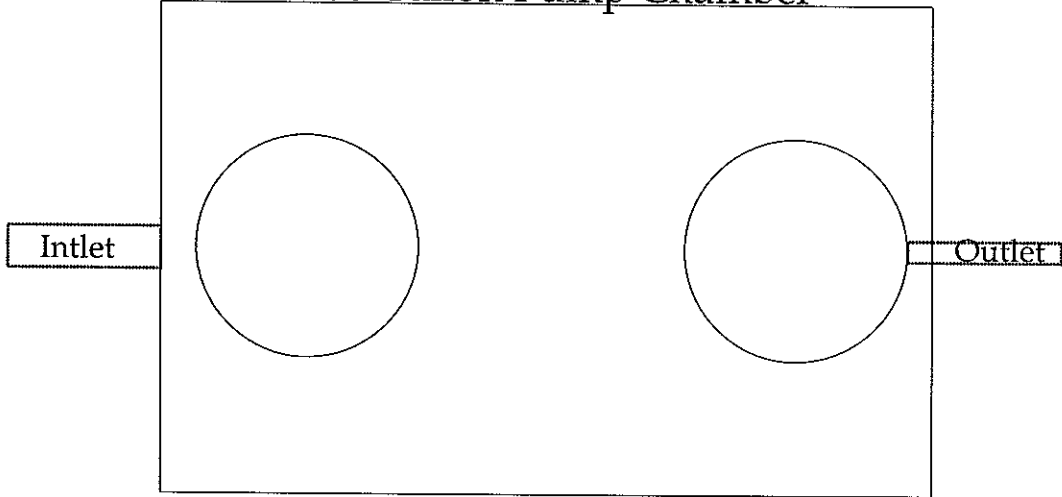
Job # 124163

Client Name Andal Lane

Property ID# 27883

SCALE _____ PAGE _____ OF _____

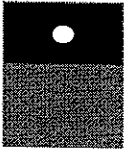
1500 Gallon Pump Chamber



General Requirements

- 1) Setback for pump chamber is typically is 50 feet to wells and surface water and 5 feet to buildings. It is the responsibility of installer and or homeowner to confirm.
- 2) Pump Chamber to be State and County approved and be water tight
- 3) All piping entering and existing tank and riser to be watertight (i.e. grommet, gasket, etc...)
- 4) All internal fittings shall be of a PVC material and glued in place.
- 5) Union and float tree to be within 24\" of finished riser height

Date of Signature 01/03/2025



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Job # 124163

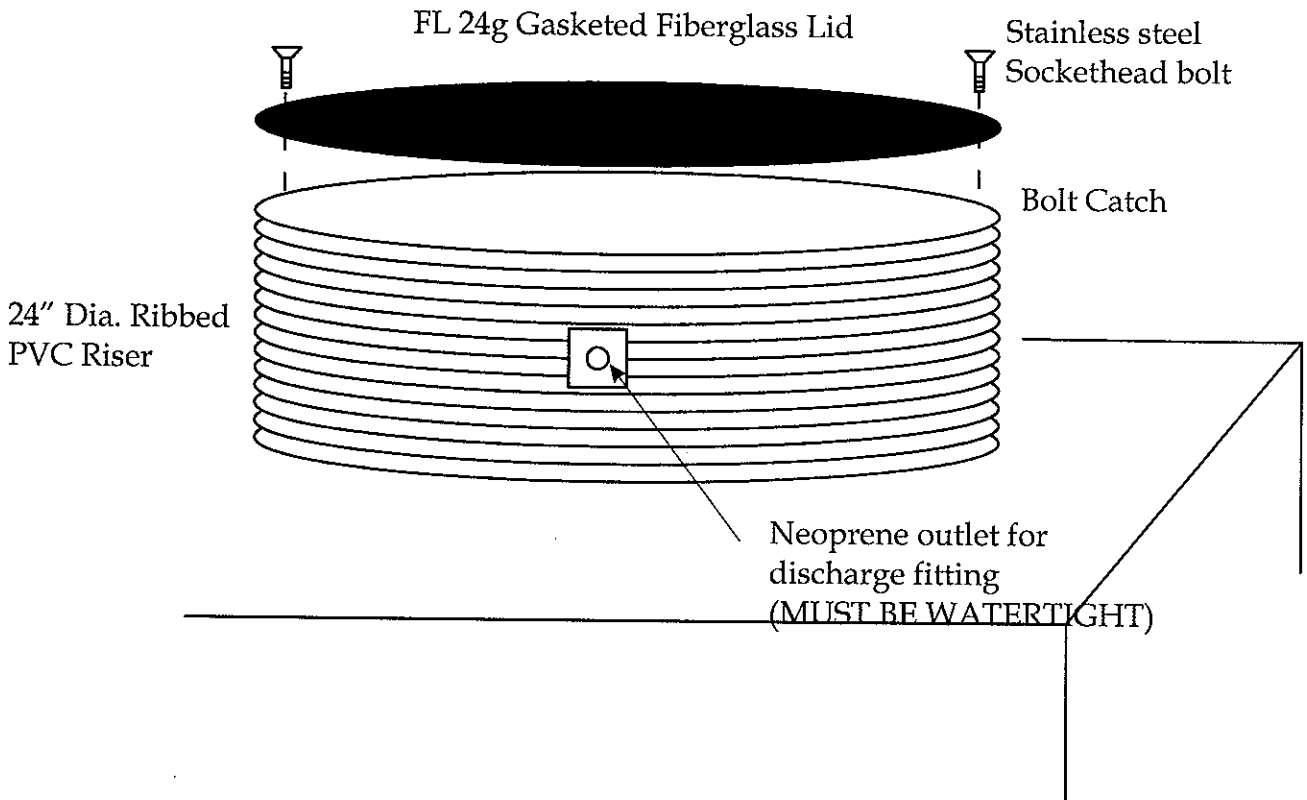
Client Name Andal Lane

Property ID# 27883

SCALE _____ PAGE _____ OF _____

OSI Manhole riser with fiberglass Lid

Manufactured By: Or Equal
Orengo systems Inc.
814 Airway Ave
Sutherlin OR 97479-9012
or equal

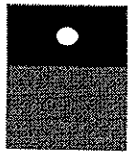


Riser are available in lengths up to 13 feet. Risers need to be secured to tank., One option is with epoxy OSI model ADHP10. The fiberglass lid is attached by four stainless steel sockethead bolts which require a allen head to open and close. **THIS TYPE OF RISER IS NOT SUITABLE FOR VEHICLE TRAFFIC AREAS**

[Handwritten Signature]

5100022
DICK GUDMUNSON
LICENSED DESIGNER

Date of Signature 01/03/2025



Gudmunson Septic, Inc.

P.O. Box 2745 Mount Vernon, WA 98273
 (360)424-4137 • (800)977-2400 • dick@gudmunsonseptic.com

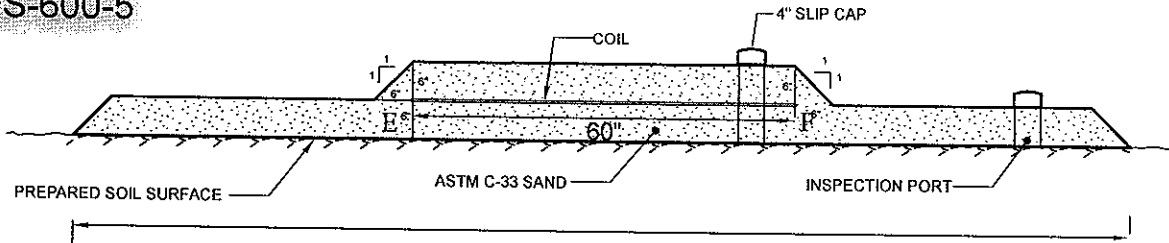
Job # 124163

Client Name Andal Lane

Property ID# 27883

SCALE _____ PAGE _____ OF _____

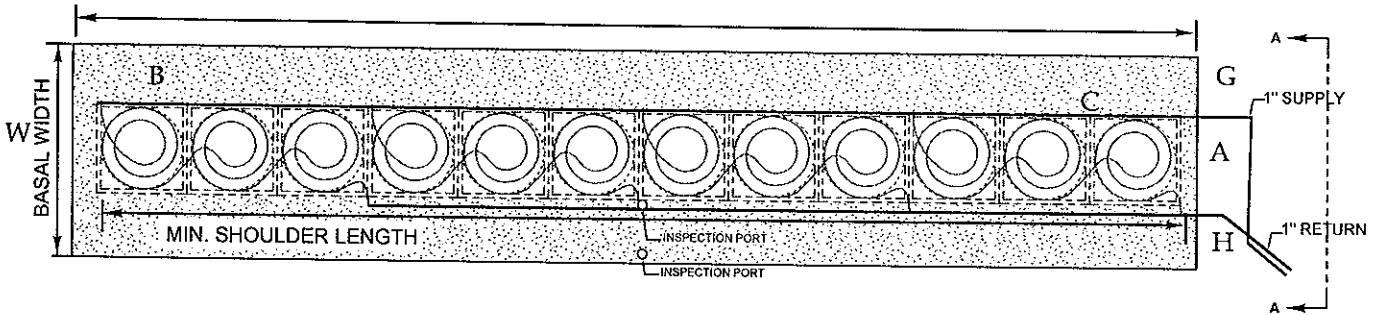
OS-600-5



BASAL WIDTH

L

Section A
NTS



Oscar II OS-50

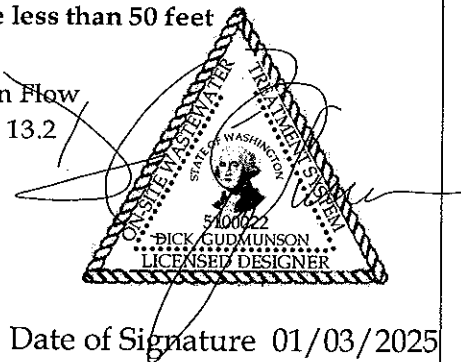
Design Flow	600	GPD	Required Basal Area	1000	sq-ft
Slope	2		Designed Basal Area	1020	sq-ft

Minimum shoulder length	66.5	Feet	E upslope depth	6	Inches
L Overall length of Oscar	68	Feet	F downslope depth	7.2	Inches
W Overall width of Oscar	15	Feet	G Upslope length	0.5	Feet
A Coil Width	5	Feet	H Downslope length	9.5	Feet
B Coil length	5	Feet			
D space between coils	6	inches			
C space between coil/sideslope	6	inches			

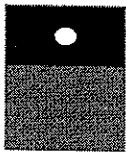
Pump Requirements

Pipe c	Pipe Dia (in.)	Length (ft.)	Elevation change	Pump Requirements
3ch 40	1	315	5	19 Hd (feet)*
# coil	Coils per lat.	Flush Volume GPM		13.2 GPM
12	4	9		* to be less than 50 feet
# of Lats.		Dose GPM		
3		4.2		

Min Flow
13.2



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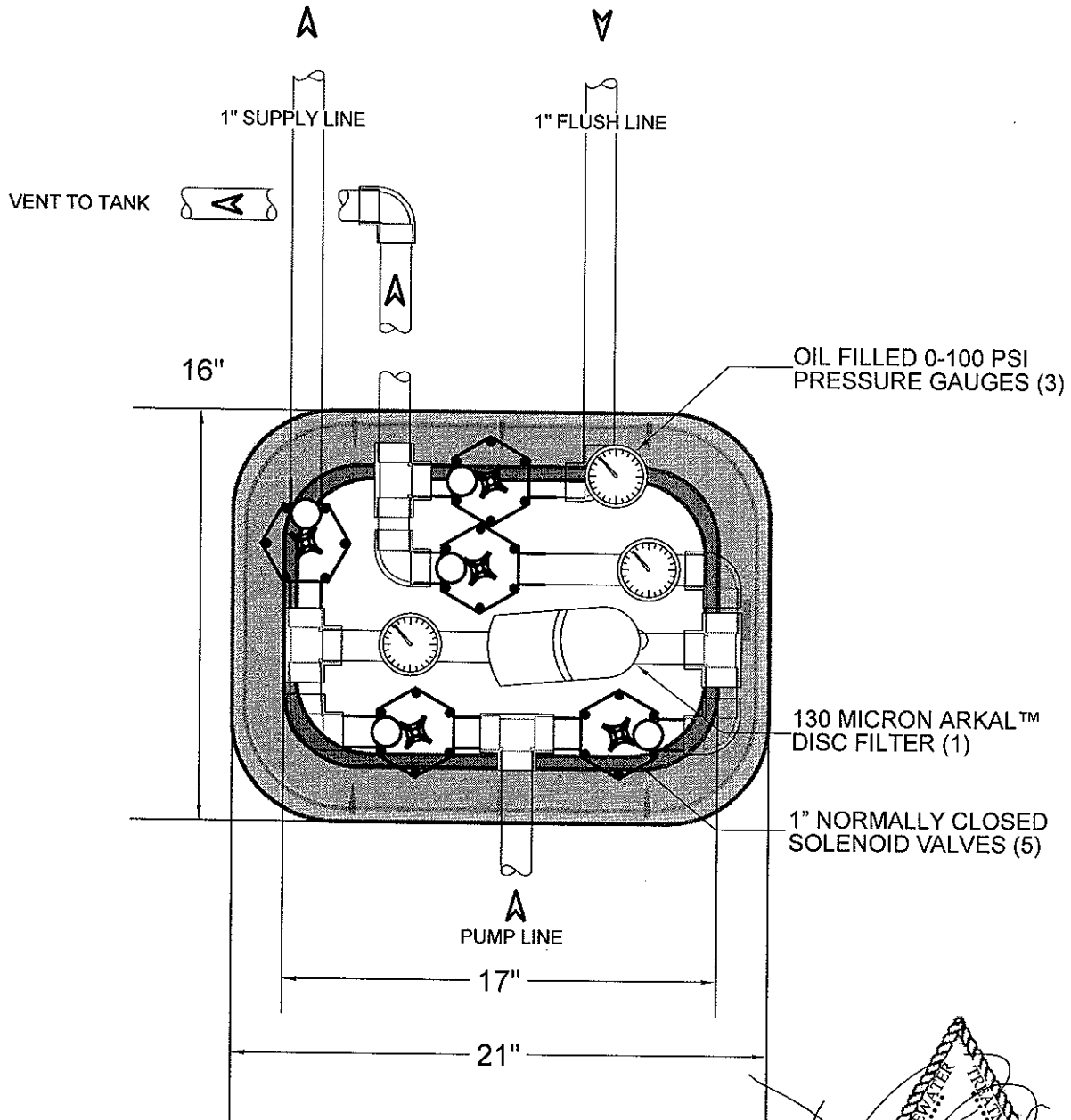


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LOWRIDGE ONSITE TECHNOLOGIES, LLC MODEL LOT-HW-.7-RF REVERSE FLUSH HEADWORK



Lowridge Onsite Technologies, LLC
 Lake Stevens, WA 877-476-8823
 www.lowridgetech.com
 info@lowridgetech.com

[Signature]

STATE OF WASHINGTON
 ONSITE WASTEWATER SYSTEMS
 810022
 DICK GUDMUNSON
 LICENSED DESIGNER

Date of Signature 01/03/2025

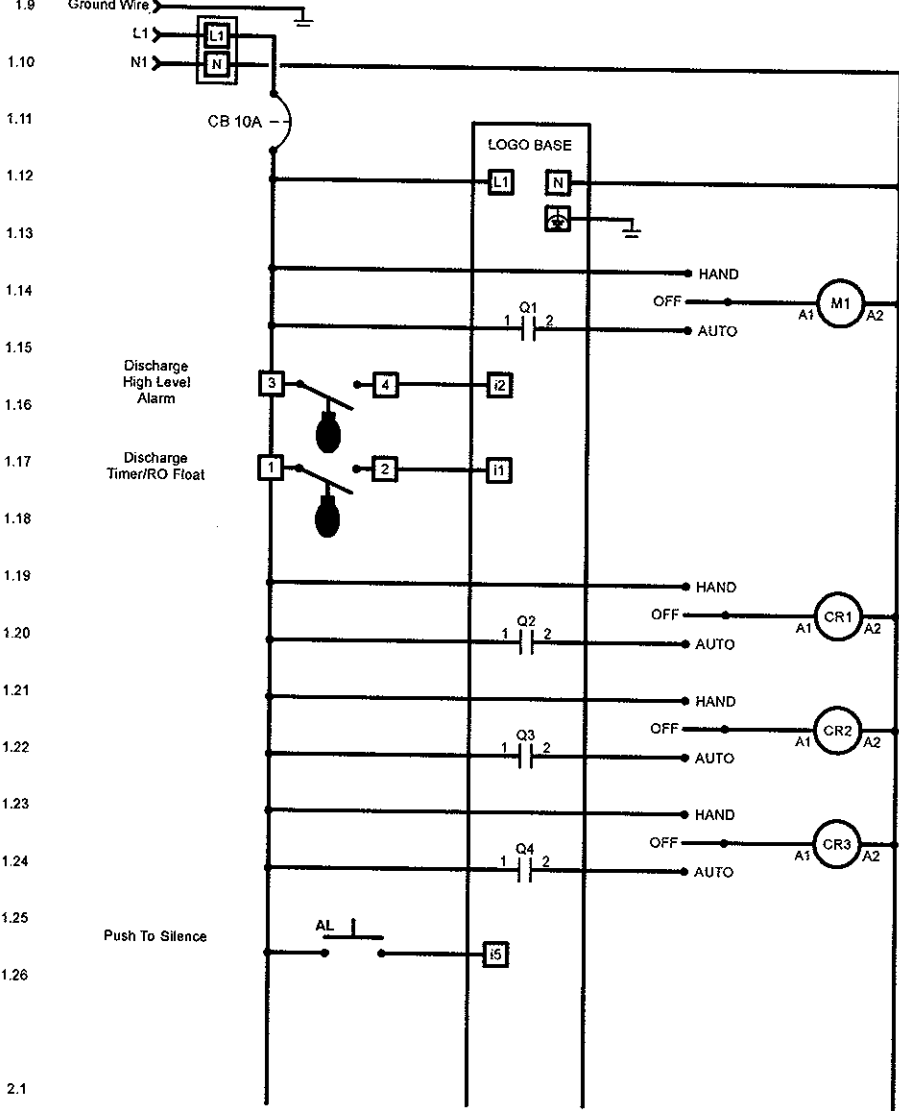
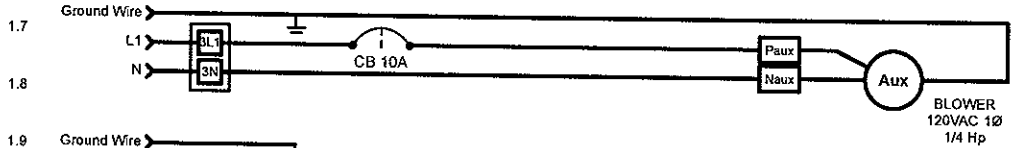
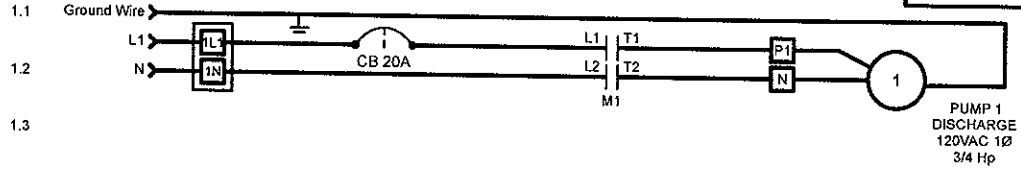
Gudmunson Septic, Inc.

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Control Panel Wiring Diagram Model LF1P-RF-BLWR

From Main Power Panel
120 VAC, 1 Phase, 60 Hz.
Branch disconnect
provided by others.

— = Factory Wire
- - = Field Wire



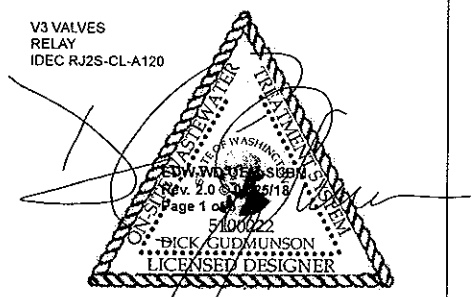
LOGO
SIEMENS
6ED1052-1MD08-0BA0

MOTOR CONTACTOR
ABB
AX18-30-10-84

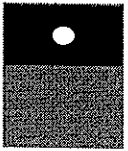
V1 VALVES
RELAY
IDEC RJ2S-CL-A120

V2 VALVES
RELAY
IDEC RJ2S-CL-A120

V3 VALVES
RELAY
IDEC RJ2S-CL-A120



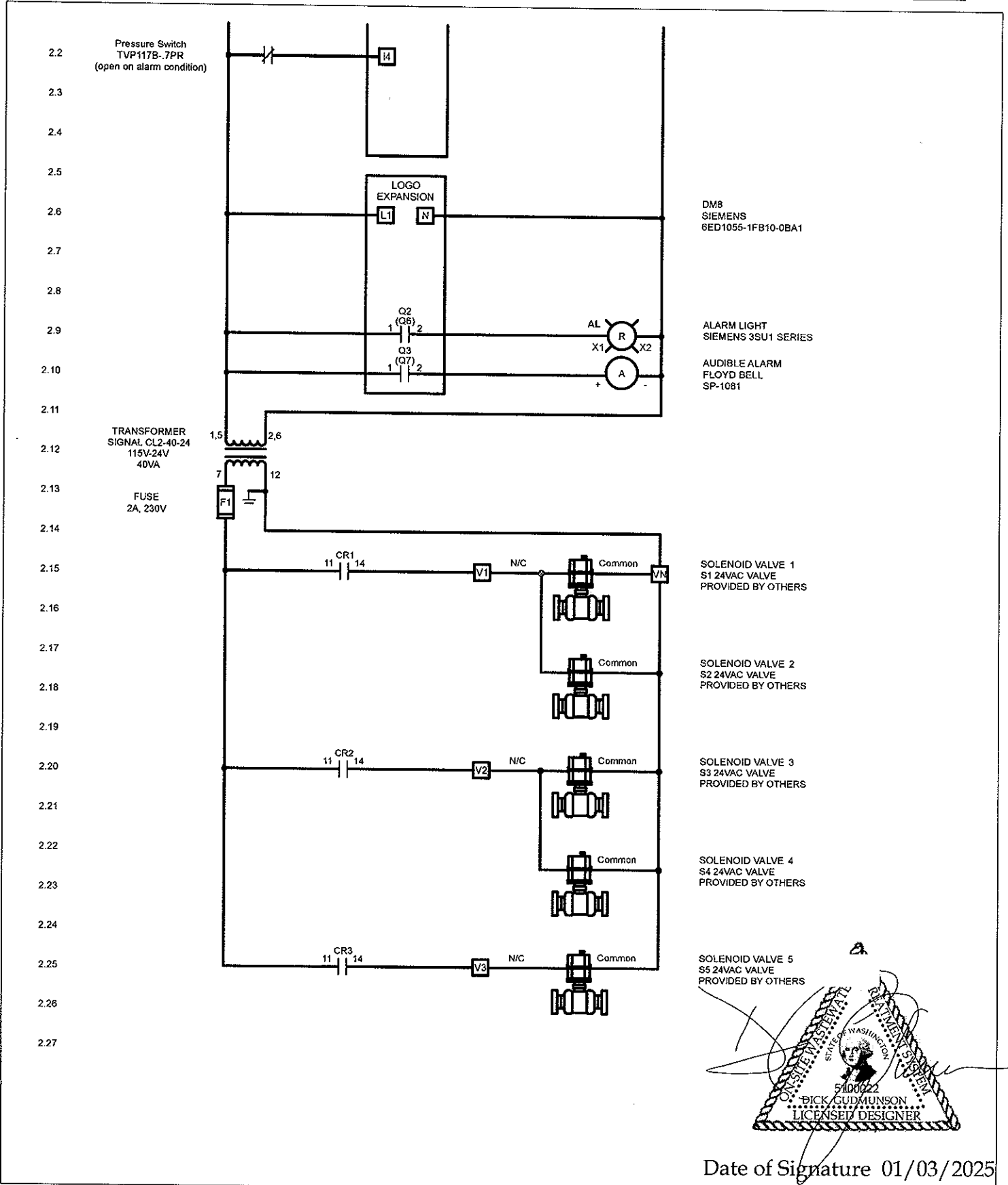
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DM8
SIEMENS
6ED1055-1FB10-0BA1

ALARM LIGHT
SIEMENS 3SU1 SERIES

AUDIBLE ALARM
FLOYD BELL
SP-108t

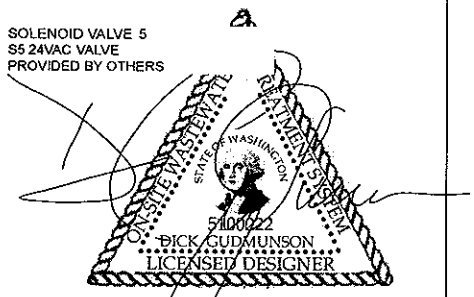
SOLENOID VALVE 1
S1 24VAC VALVE
PROVIDED BY OTHERS

SOLENOID VALVE 2
S2 24VAC VALVE
PROVIDED BY OTHERS

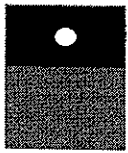
SOLENOID VALVE 3
S3 24VAC VALVE
PROVIDED BY OTHERS

SOLENOID VALVE 4
S4 24VAC VALVE
PROVIDED BY OTHERS

SOLENOID VALVE 5
S5 24VAC VALVE
PROVIDED BY OTHERS



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Job # 124163

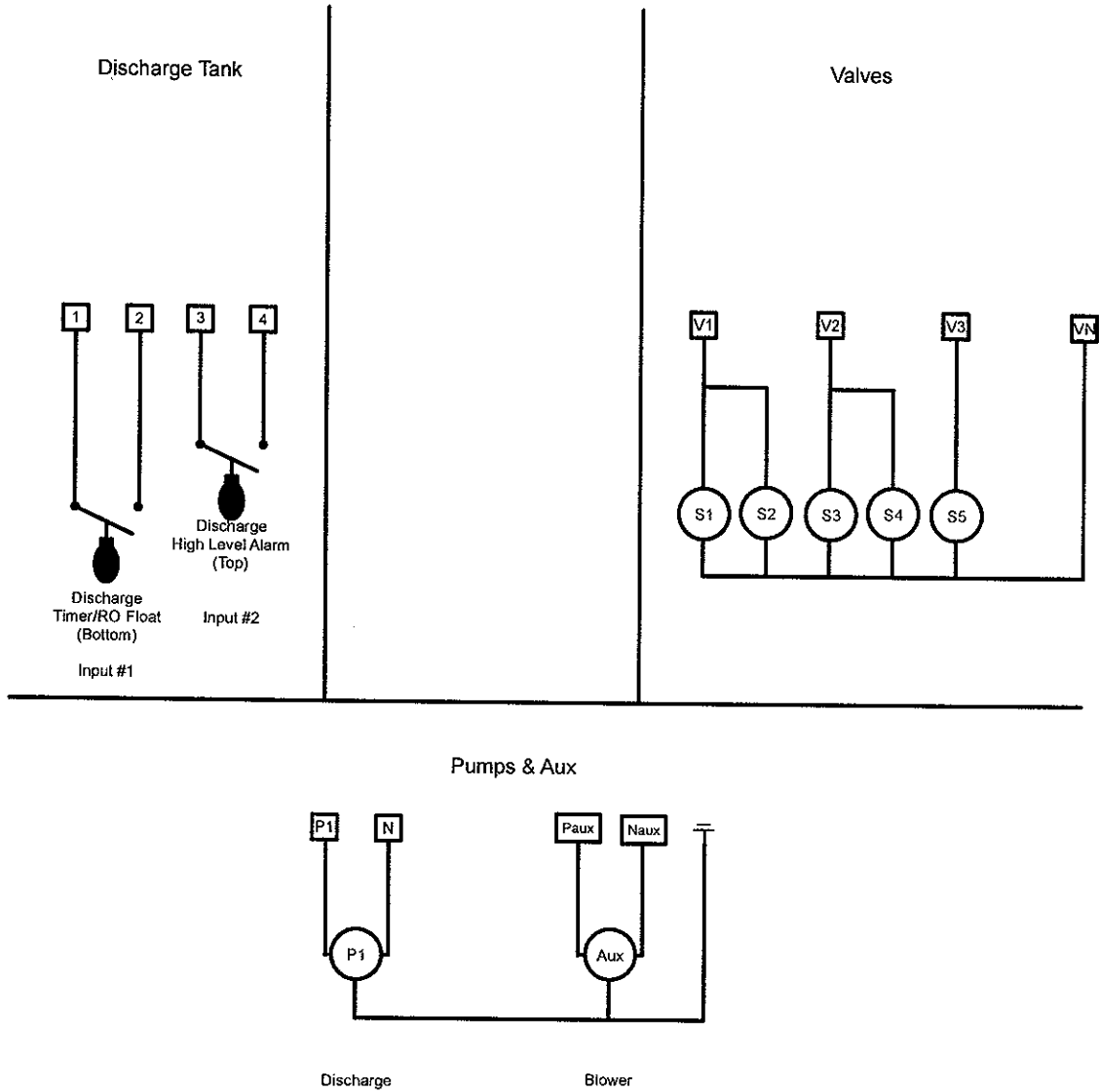
Client Name Andal Lane

Property ID# 27883

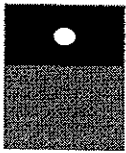
SCALE _____ PAGE _____ OF _____

Control Panel Connections

3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10
3.11
3.12
3.13
3.14
3.15
3.16
3.17
3.18
3.19



Date of Signature 01/03/2025



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LF1P-RF-BLWR Operation

This PLC line of control panels includes an easy-to-use programmable logic unit that incorporates many timing and logic functions. This panel will accommodate timed dose or on-demand systems. The panel's default mode of operation is timed dose. This document describes each mode of operation.

Alarm and Data Screens:

Alarm and data screens have been included with the panel to assist with panel monitoring and troubleshooting. The following alarm and data screens have been included in your panel, look for the \checkmark to determine if the screen will be displayed for timed dosed or on-demand modes. Navigation between the screens is accomplished by using the up and down arrow keys. See "Screen Navigation" section for more details.

Screen	Description
Data Screens	
1	Discharge Pump cycles at top of screen and run time beneath
2	V1 cycles at top of screen and V1 run time beneath
3	V2 cycles at top of screen and V2 run time beneath
4	V1V3 cycles at top of screen and V1V3 run time beneath

Digital Input and Digital Output Screens:

The unit will activate various inputs and outputs as it operates (see Figure 2).

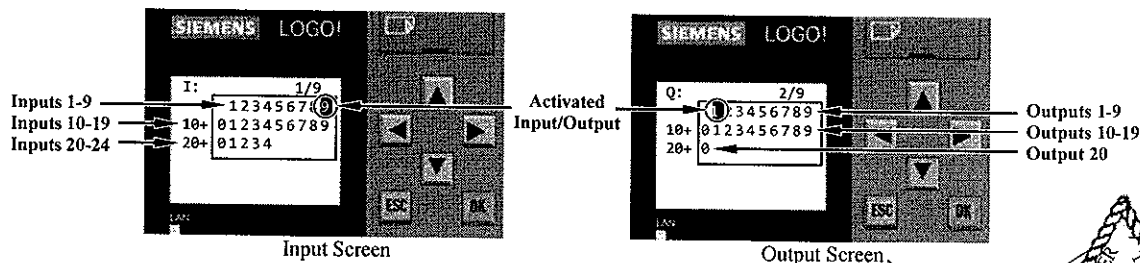
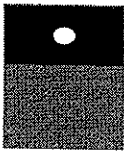


Figure 2. Input & Output Screens

Date of Signature 01/03/2025



Gudmunson Septic, Inc.

P.O. Box 2745 Mount Vernon, WA 98273
 (360)424-4137 • (800)977-2400 • dick@gudmunsonseptic.com

Knowing what conditions cause the inputs and outputs to activate can be a helpful installation and troubleshooting tool. The input functions will vary based on the mode of operation of the panel. The following inputs and outputs have been used with your panel:

#	Functions:	Activation Conditions:
Inputs		
1	Discharge Timer Enable/RO	Float in up position
2	Discharge High Level Alarm	Float in up position
3	NA	NA
4	Pressure Switch	Pressure Switch is Closed
5	Push To Silence	Silence button is pressed
Outputs		
1	Discharge Pump	Discharge pump is called to run
2	Valve 1 & 2	Valve 1 & 2 is open
3	Valve 3 & 4	Valve 3 & 4 is open
4	Valve 5	Valve 5 is open
5	NA	NA
6	Level Alarm Light	Discharge High Level Alarm Float in the up position
7	Audible Alarm	Alarm condition exists

Screen Navigation:

The screens are arranged in the order shown in Figure 3 below. To move between screens, use the four arrow keys. The screens of interest are shown in bold. Additional built-in screens will be present, but do not contain useful information.

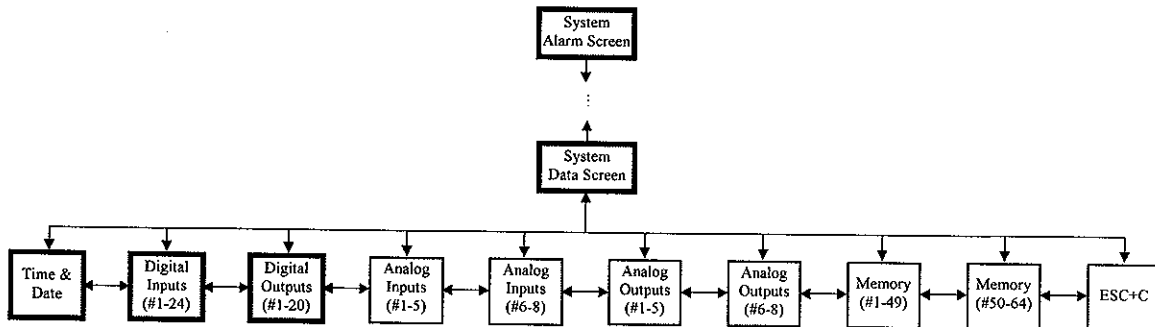
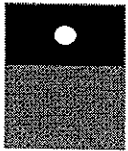


Figure 3. Screen Layout

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Job # 124163

Client Name Andal Lane

Property ID# 27883

SCALE _____ PAGE _____ OF _____

Panel Operation:

Your control panel can perform the float functions listed below. Depending on the number of floats for your application, some functions may be omitted or combined. In addition, this panel supports drip system.

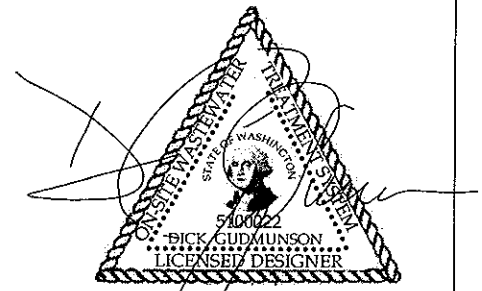
Discharge Timer Enable: This float enables the coil dose cycles (Discharge pump, valves 1 & 2). The pump and valves will continue to cycle on the timer settings (V1 Off/ V1 On) until the float is lowered. These timers will continue to cycle until the coil dose cycles equal the V1 counts.

V2 Off/ V2 On Timers: This timer will control the filter flush cycles (Discharge pump, valve 3 & 4). These timers will be enabled when the number of coil dose cycles equals the V1 count setting. These timers will continue to cycle until the filter flush cycle number equals the V2 count setting. Note: The timer will start with its off cycle.

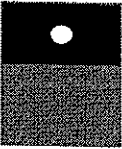
V1V3 Off/ V1V3 On Timers: This timer will control the coil flush cycles (Discharge pump, valve 1, 2, & 5). These timers will be enabled when the number of filter flush cycles equals 1 (field adjustable) V2 counts. When the number of coil flushes equal V1V3 counts setting, the coil dose cycles (V1 Off. V1 On) will be enabled again. Note: The timer will start with its off cycle.

Alarm light and Audible: The alarm light and audible will be activated if the Discharge alarm float is lifted or pressure switch contact opens. If the discharge alarm float is up the Discharge pump will be disabled if the Discharge pump HOA switch is in auto. The audible can be silence by pressing the push to silence button. The Alarm light will remain on until the pressure switch closes and the alarm float drops.

Pressure Switch: When this contact opens for longer than 2 seconds it will disable the Discharge pump in the auto mode.



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List of components:

1. Control panel: *LF1P-RF-BLWR*
2. Reverse flush Headworks: three (3) oil filter 0-100 psi pressure gauges, one (1) 3/4"-120 mesh, 130 micron *Arkal*™ disc filter, five (5) Netafim 1" normally closed solenoid valves and container.
3. Float switches (2)
4. Discharge pump, 1/2 hp AY McDonald 1/2 hp, 30 gpm 22050E2AJ
5. 3/4" ARADflow meter
6. OSCARcoils Netafim Bioline (0.42 gpm at 6" spacing)
7. Misc. fittings and blank tubing

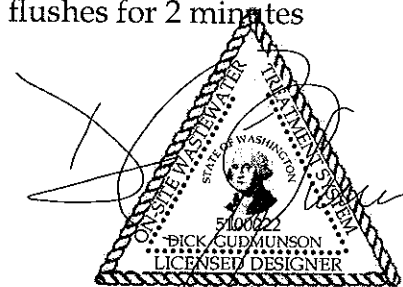
Panel Operation:

The *LF1P-RF-BLWR* control panel is a 110 volt universal panel for most single family OSCAR-*I* systems. It has the capacity to operate two major outputs: a discharge pump and the "Reverse Flush" headworks. Also, the panel is capable of operating a pressure switch to monitor blower failure. All logic is controlled by a Siemens Logo. The pump operation options are as follows:

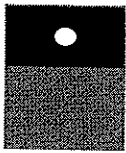
- Discharge Pump (Pump #1): is operated in a time-dose mode. Pump #1 pressurizes the OSCAR-*I* and back-flushes the disc filter and forward flushes the OSCAR-*II* Coils

The timer has the following factory default settings:

- Discharge pump dosing: 3:38 minutes off, 22 seconds on. (V1_OFF, V1_ON)
- Disc filter flush: after pre-set number of dose cycles have completed (90 doses), the disc filter flush "ON" cycle runs for 15 seconds. (V2_ON).
- Coil flush: after Disc filter flush is completed, the Coil flushes for 2 minutes (V1V3_ON).



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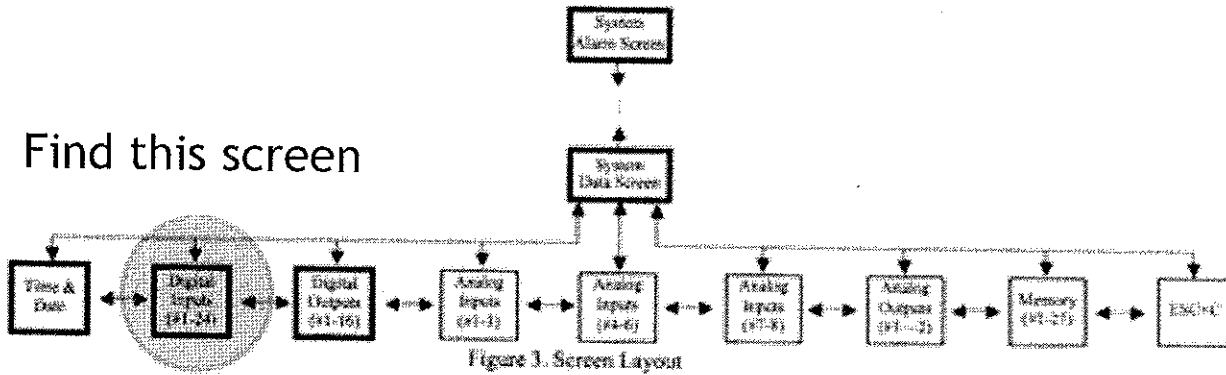


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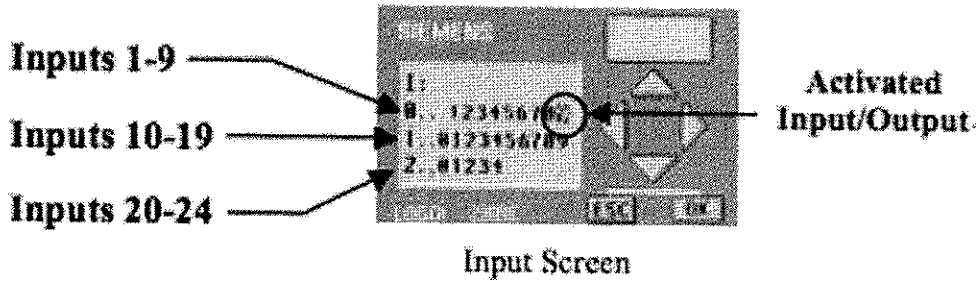
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Screen Navigation:

The screens are arranged in the order shown in Figure 3 below. To move between screens, use the four arrow keys. The screens of interest are shown in bold. Additional built-in screens will be present, but do not contain useful information.



The actual screen will look like this:



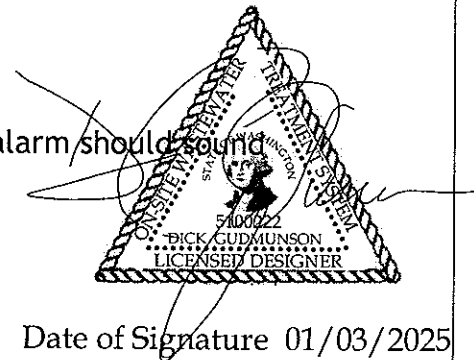
When lifting the floats check this screen to determine if the floats are wired into the correct position. When the floats are lifted a corresponding digit will be back lit. The input values are as follows:

- 1 = bottom float
- 2 = top float

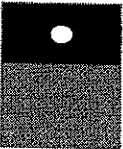
Test floats

Lift top float. Input indicator "2" will back light and the alarm should sound and the beacon should illuminate.

Lift bottom float. Input indicator "1" will back light.



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Place floats back into tank.

b. Test pumps and valves:

Discharge pump and valves:

Place valve 1 & 2 toggle switch and pump 1 toggle switch to MAN position. Pump should dose and all three pressure gauges should stabilize about 50 psi. Gauge 3 may read as low as 40 psi. No water should be flowing into septic tank.

Place valve 3 & 4 toggle switch to MAN and valves 1 & 2 toggle switch to OFF, pump #1 in MAN. Pump should run, pressures should change: gauge 2 highest pressure, gauge 1 less than 2, and gauge 3 should indicate 0 psi. Water should be flowing into septic tank very rapidly.

Place valves 1 & 2 and valve 5 in MAN position and valves 3 & 4 in OFF position, and pump 1 in MAN. Pressure on gauge 1 & 2 should indicate about the same pressure, and gauge three should indicate between 0-3 psi and water should be flowing into septic tank at a moderate rate.

Position all toggle switches to AUTO.

c. Check timer default settings:

V1 OFF= 3:38 Minutes

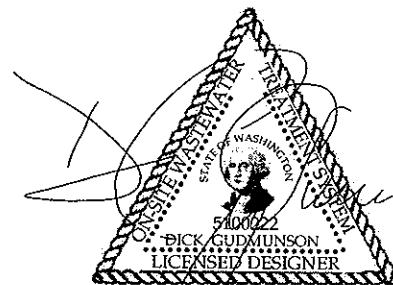
V1 ON = 22 seconds

V2 OFF = 30 seconds

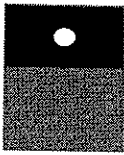
V2 ON = 15 seconds

V1V3 OFF= 30 seconds

V1V3 ON = 2 minutes



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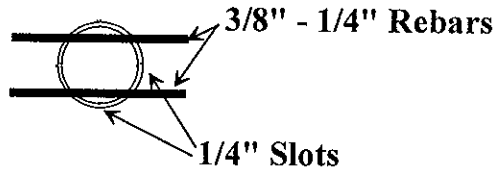
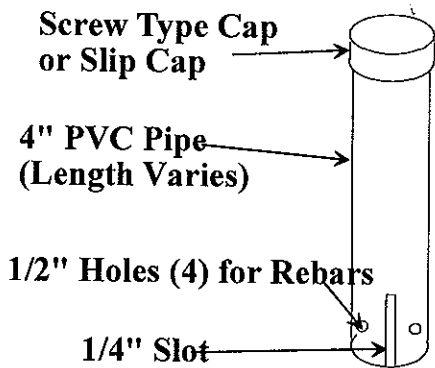
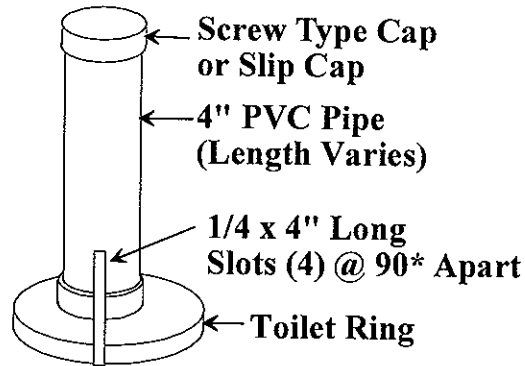
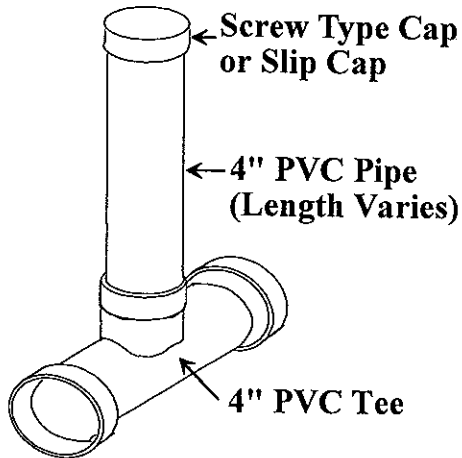


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Monitoring Ports Options

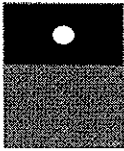
Note: ports should only be perforated at the bottom



END VIEW (BOTTOM)

[Handwritten Signature]

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OSCAR Plantings

The OSCAR system was designed for shallow soil conditions and/or limited area. Some lots could not be developed unless an OSCAR system was used. But how to make them look appealing?

The options for landscaping the OSCAR vary according the owners tastes. They can be left in a natural state where native plants such as ferns, salmon berries, and grasses take over. Or, they can be planted with lawns (hydro seeded or sod), shrubs, ornamentals, and fruit bearing plants.

There are two things that must **NOT** be done when landscaping: 1. do not plant trees in the coil area directly on top of the OSCAR, and 2. do not cover the coil area with high organic, composted top soils. As the trees grow they could physically damage the coils as the tree trunk expands, and the high organic top soil absorbs water that would have evaporated from the top of the OSCAR. The top soil holds the water and gives the appearance that something is wrong.

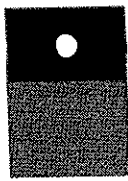
When an OSCAR system is first installed the cover sand has little to no structure. Walking on it leaves footprints and the sides slough very easily. But this will not always be the case. When the system is put into operation, the coils will automatically "water settle" the sand and it will become firm. The OSCAR is subsurface irrigated. The sand will grow anything that is planted in it As plants begin to take root, the root mass holds the sand in place. Many OSCAR system that are covered with grass can be mowed with a push mower without the sand sloughing. It may take a growing season or two for the lawn to fill in completely..

Some other options for covering are beauty bark or 2-3 inches of soil. The sides of the OSCAR can be covered with soil to blend the OSCAR into the surrounding contours.

In areas with high winds (the top of ridges in the Vantage or Yakima areas) it may be necessary to cover the OSCARs with soil, about 6". The wind dries out the sand very quickly and then carries the sand away. This is an extreme condition and does not occur very often.

STATE OF WASHINGTON
 ENGINEER
 54000222
 DICK GUDMUNSON
 LICENSED DESIGNER

Date of Signature 01/03/2025



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Job # 124163

Client Name Andal lane LLC

Property ID# 27883

SCALE 1"=100'PAGE OF



Soil logs

- ~This page is not sufficiently detailed for all phases of installation, please see attached pages for additional details.
- ~Site, Design and Construction requirements not specifically mentioned shall conform to applicable State and County standards.
- ~Additional fees will be charged for inspections and as-built. Contact designer regarding times and charges.

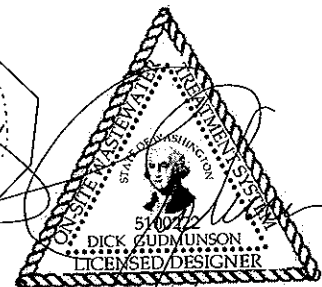
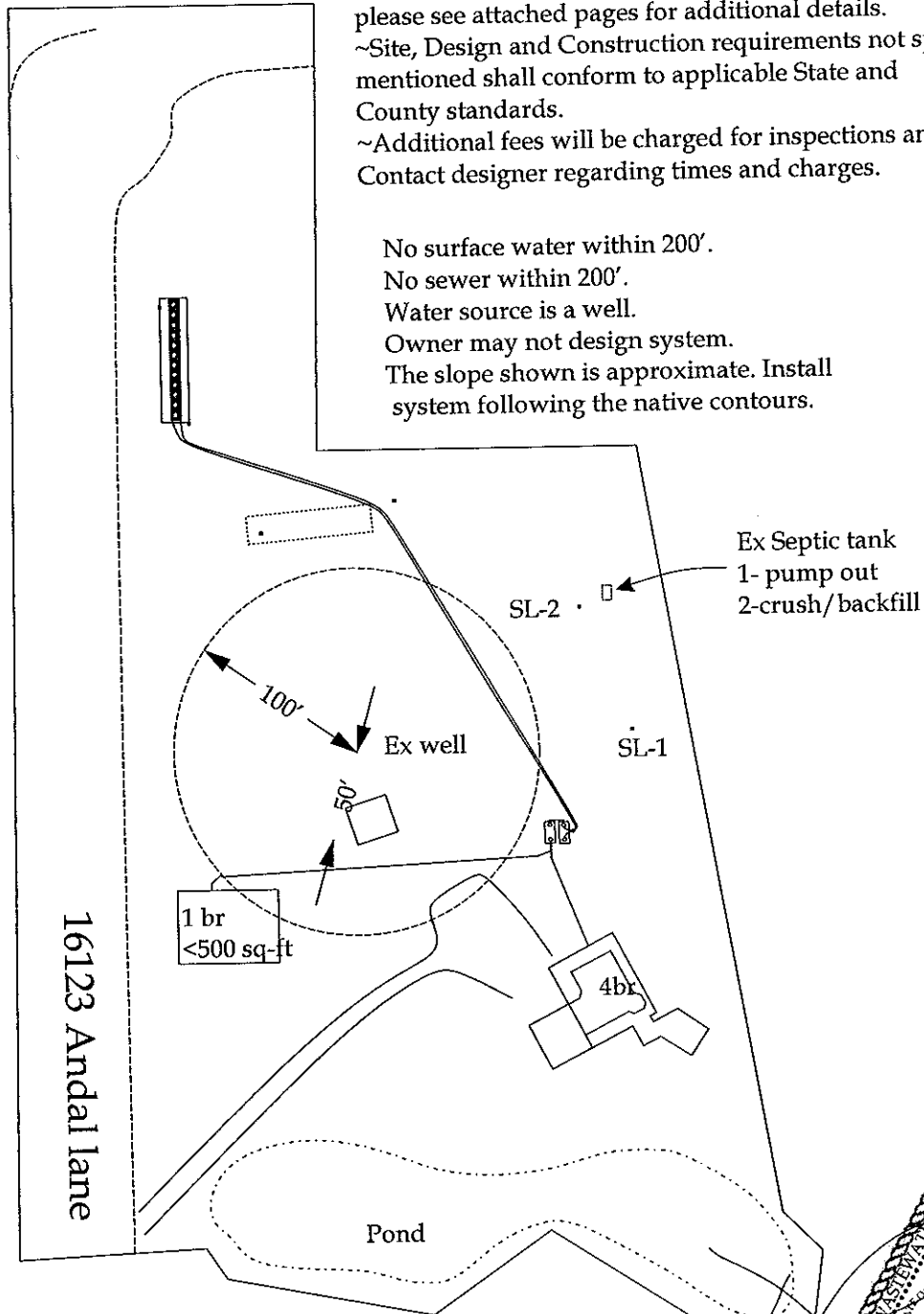
No surface water within 200'.

No sewer within 200'.

Water source is a well.

Owner may not design system.

The slope shown is approximate. Install system following the native contours.



Date of signature 01/03/25