## **SEWAGE TREATMENT SYSTEM (STS) DESIGN FOR:**

HELEN GODSEY
9960 LEACREST RD
CINCINNATI, OH 45215
Hamilton County

Hamilton County PARCEL: 0598-0070-0001

0.86 AC

Designed By: Evans Engineering 4240 Airport Rd., Suite 211 513-321-2168

Design Date: July 22, 2022 Site Visit Date: January 2022

## Design Details:

Proposed JET J-500-PLT ATU to IM-1060, 1000 gallon dose tank with UV disinfection to low pressure leach lines with non-gravel, fines-free leaching trenches.

## Design Rationale:

This design is for an existing 2 bedroom home with 0 additional rooms that could be classified as a future bedroom, per following:

- At least 70 square feet,
- Contains a closet or area that could easily be finished as a closet,
- Has multiple means of ingress/egress, sole ingress cannot be through another bedroom, and;
- Has a door or opening that can easily be finished with a door
- For every two bedroom-like-rooms that have 3 of the 4 items listed above, one will be considered a bedroom.

The Daily Design Peak Flow is therefore 240 GPD. The peak flow should not be reached on a routine basis. Average flows of 144 GPD can be accommodated routinely with typical residential wastewater strength as specified in Ohio Administrative Code (OAC) 3701-29 for households.

The Perched Seasonal Water Table is at 22"-30" from the ground surface and Highly Weathered Soils with slow permeability are at 32". Conditions require a 24" Vertical Separation Distance from the Perched Seasonal Water Table and 8" of in situ soil. Since the site has a minimum of 22"-30" of in situ soil and the trenches will be set at 13" depth (utilizing a 24" soil depth credit by pretreating to < 1000 CFU), both conditions are satisfied. Soil absorption field design length and width are calculated based on the worst soil conditions under the soil absorption system. The loading rates are selected from tables in the Ohio Administrative Code.

The Soil Loading rate for silty clay loam with moderate sub-angular blocky structure is 0.6 GPD/sq.ft for pretreated effluent.

The Linear Loading Rate for silty clay loam with moderate sub-angular blocky structure with an infiltrative distance of 8"-12" and 10-15% slope (field verified) is 3.0 GPD/Ln. Ft.,

## Design Considerations:

Non-gravel, fines free trench area calculations
Required area for soil absorption: (240 gpd / 0.6 gpd/sf) = 400 sf req'd

Minimum length: 240 gpd / 3.0 gpd/ft = 80' ft,

# Leaching Trench Design:

1 ZONE WITH 4 TRENCHES 40' LONG (PLUS ENDCAPS)

40' X 3' WIDE = 120 SF

TOTAL AREA = 4 TRENCHES X 120 = 480 SF

## System Installation, Operation And Maintenance (O&M)

All system devices and components must be operated and maintained in accordance with the Ohio Department of Health (ODH) product approval and Conditions. System devices and components must be installed per ODH product approval, Hamilton County Installation Manual and this design. Where conflicts exist, consult Evans Engineering for guidance before proceeding.

Jet Install Manual: see C-8

Dose Tank: www.infiltratorwater.com

Chambers Installation Manual: www.infiltratorwater.com

Panel: www.infiltratorwater.com

Means for O&M is provided by the driveway which is within standard distances and elevations for a service truck.

## Changes and Use of This Design

This plan is the sole ownership of the designer and may not be altered, changed, used or manipulated without approval of designer and HCPH. Evans Engineering is available to make adjustments and address questions about the system design.

It is the responsibility of the contractor to verify that the system can be installed as designed, based on their preliminary lay-out of the job. It is the responsibility the installer and property owner to inform the designer of any field or other conditions that may affect the installation, operation or maintenance of the STS, including site disturbances that may affect the performance of a soil absorption component. If design changes are needed, redesign fees may apply.

# System Protection

Property owner and installer are responsible to protect the soil absorption areas from disturbance. Only excavate soil absorption area when soil is dry and friable to a depth of 13" and in compliance with Hamilton County Installation Manual requirements. Keep wheeled traffic off septic field area. Replacement area is set aside for the a future relocation, expansion and/or replacement of the system. Replacement area is to remain undisturbed and no permanent structures or hardscapes are to be erected in this area. It is the owner and installation contractor's responsibility to locate underground utilities. If utilities interfere with the designed system, construction shall not proceed without approval from designer and HCPH.

No clearwater connections (downspouts, pool/spa water, footer tiles, cisterns, etc) shall be connected to this STS.

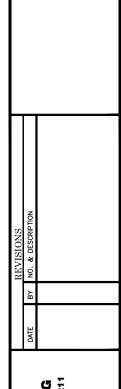
All system components must meet the horizontal isolation distances specified in OAC 3701-29-06(G)(3).

## System Cost Information

The property owner has been informed of system options and briefed on cost factors. According to OAC 3701-29-10(B)(5), designers of STS systems must include approximate installation costs and operational costs of STS options to assist the homeowner in the selection of the STS options. Evans Engineering estimates costs as follows: \$32,000-\$45,000 Installation cost\*
\$1,000 annual operational cost\*
\*This is a general estimate of costs for this system. It is not a bid to install or service the STS. Contact a licensed installer and service provider or distributor for actual bids.

## Disclaimer

This plan set is not a site plan to be used for constructing anything other than the Sewage Treatment System. If an accurate legal site plan is required, contact a professional surveyor. This plan offers no guarantee as to the accuracy of information provided. This plan offers no guarantees for site stability. If site stability may be an issue, a geotechnical engineer should be consulted. Plan is only as accurate as the information provided by the property owner to the designer. Easements, right-of-ways. hidden objects or information not communicated to the designer invalidates the design. It is the property owner's responsibility to review this plan and information provided to verify all site conditions and design assumptions are correct. If conflicts are found or additional information must be supplied, the owner shall contact the designer and installation shall not proceed until the approval is granted. This design shall in no way be taken as guarantee that the system will function in a satisfactory manner for any given period of time, or that the Evans Engineering or any of its agents or employees assume any liability for damages, consequential or direct, which are caused, or which may be caused by a malfunction of the STS.



EVANS ENGINEERING 4240 AIRPORT ROAD, SUITE 211 CINCINNATI, OHIO 45226 (513) 321-2168



COVER SHEET

9960 LEACREST RD, CINCINNATI, OH 452I5
HAMILTON COUNTY

ALE: HORIZ. VERT.

SHEET NO.

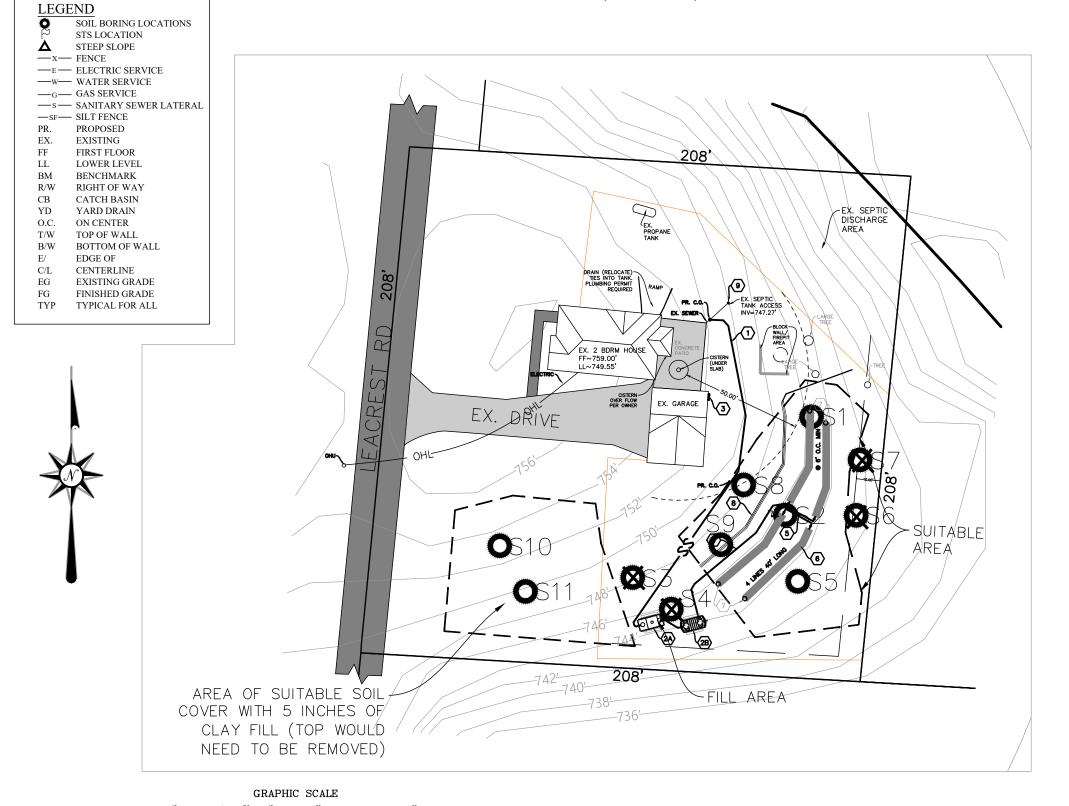
COVER

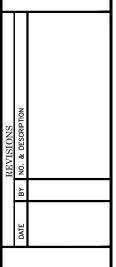
# NOTES:

- 1) UNLESS OTHERWISE NOTED, ALL TREATMENT SYSTEM COMPONENTS AND ONSITE DISCHARGE COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL STATE AND FEDERAL REGULATIONS/GUIDELINES AND IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 2) CAUTION TAPE OR ORANGE FENCING SHOULD BE INSTALLED AROUND THE DISPERSAL FIELD AND RESERVE AREA PRIOR TO EARTHWORK ACTIVITIES.
- 3) UNLESS OTHERWISE NOTED, ALL PIPING IS SCHEDULE 40 PVC PIPING (ASTM D2665/D1785).
- 4) ALL PIPING THAT DOES NOT GRAVITY DRAIN IS TO BE BURIED 24" DEEP MIN.
- 5) SYSTEM IS DESIGNED TO TREAT 144 GALLONS PER DAY AVERAGE FLOW (240 GALLONS PER DAY OCCASIONAL PEAK FLOW) FROM A SINGLE FAMILY RESIDENCE
- 6) ANY MODIFICATIONS MADE BY THE INSTALLER MUST BE APPROVED BY THE DESIGNER PRIOR TO IMPLEMENTATION.
- 7) ANY MODIFICATIONS MADE BY THE INSTALLER MUST BE NOTED ON THE FINAL AS-BUILT DRAWING
- 8) VEHICULAR TRAFFIC AND HEAVY EQUIPMENT IS PROHIBITED IN DISPERSAL AREA, REPLACEMENT AREA AND DOWNSLOPE OF DISPERSAL.
- 9) ALL COMPONENTS TO MAINTAIN A MINIMUM 10' HORIZONTAL SEPARATION FROM PROPERTY LINES, R.O.W., EASEMENTS, BUILDINGS, DRIVEWAY/HARDSCAPE, UTILITIES, INTERMITTENT STREAMS/SWALES, HORIZONTAL CLOSED LOOP GEOTHERMAL SYSTEMS, IRRIGATION LINES, AND GWRS.
- 10) ALL COMPONENTS TO MAINTAIN A MINIMUM 50' HORIZONTAL ISOLATION DISTANCE TO ALL PERENNIAL STREAMS, RIVERS, WETLANDS, WELLS, VERTICAL GEOTHERMAL SYSTEMS, AND ALL PRIVATE WATER SYSTEMS (I.E. CISTERN ON PROPERTY)
- 11) WATER FROM THE ROOF, FOUNDATION DRAINS, FLOOR DRAINS, CISTERN OVERFLOWS, SUBSURFACE DRAIN TILES, STORM WATER DRAINS, SUMP PUMPS AND CLEAR WATER DRAINS SHALL NOT BE DISCHARGED INTO OR ONTO ANY PART OF THE STS.
- 12) IF SANITARY SEWER CROSSES ANY WATER SUPPLY LINES, USE FULL LENGTH OF PIPE AT CROSSING SO NO JOINTS ARE NEAR THE CROSSING LOCATION, EXTEND 10' MINIMUM ON EACH SIDE OF CROSSING, AND SLEEVE THE WATER AND/OR SEWER WITH LARGER DIAMETER PIPE AND SEALED ENDS.
- 13) SOIL SAMPLES PERFORMED BY MR. DAN MICHAEL, CLEARCREEK ENVIRONMENTAL, LEBANON, OHIO.
- 14) BASEMAP WAS OBTAINED FROM CAGIS WITH GIS CONTOUR INFORMATION.

# LEACREST RD SEPTIC - GODSEY - REPLACEMENT STS ON-SITE SANITARY SYSTEM

9960 LEACREST RD, CINCINNATI, OH 45215





EVANS ENGINEERII
4240 ARPORT ROAD, SUITE
CININATI, OHIO 45226



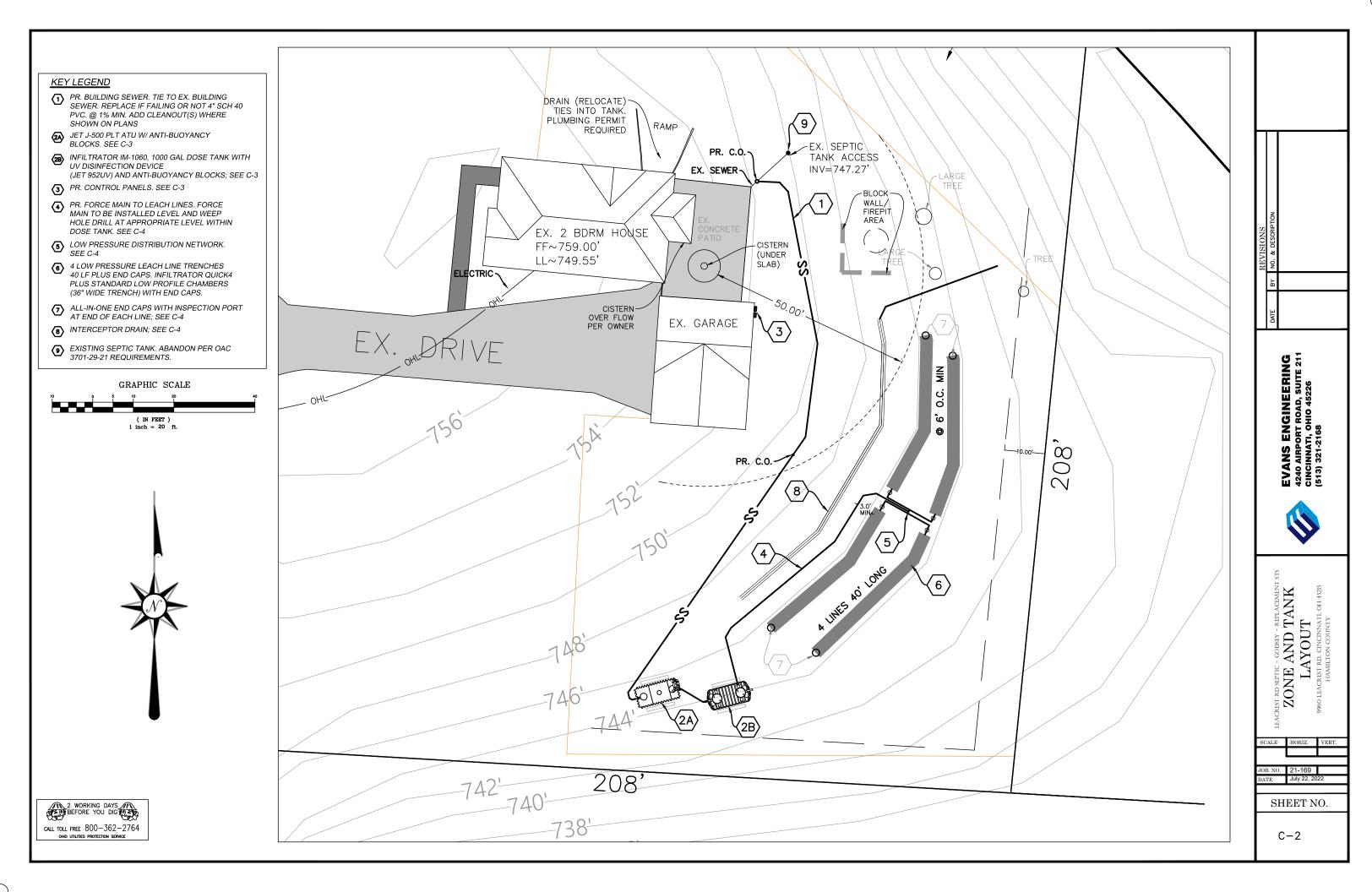
OVERALL SITE PLAN
9960 LEARRET RD. CINCINNY:
HAMITON COINTY

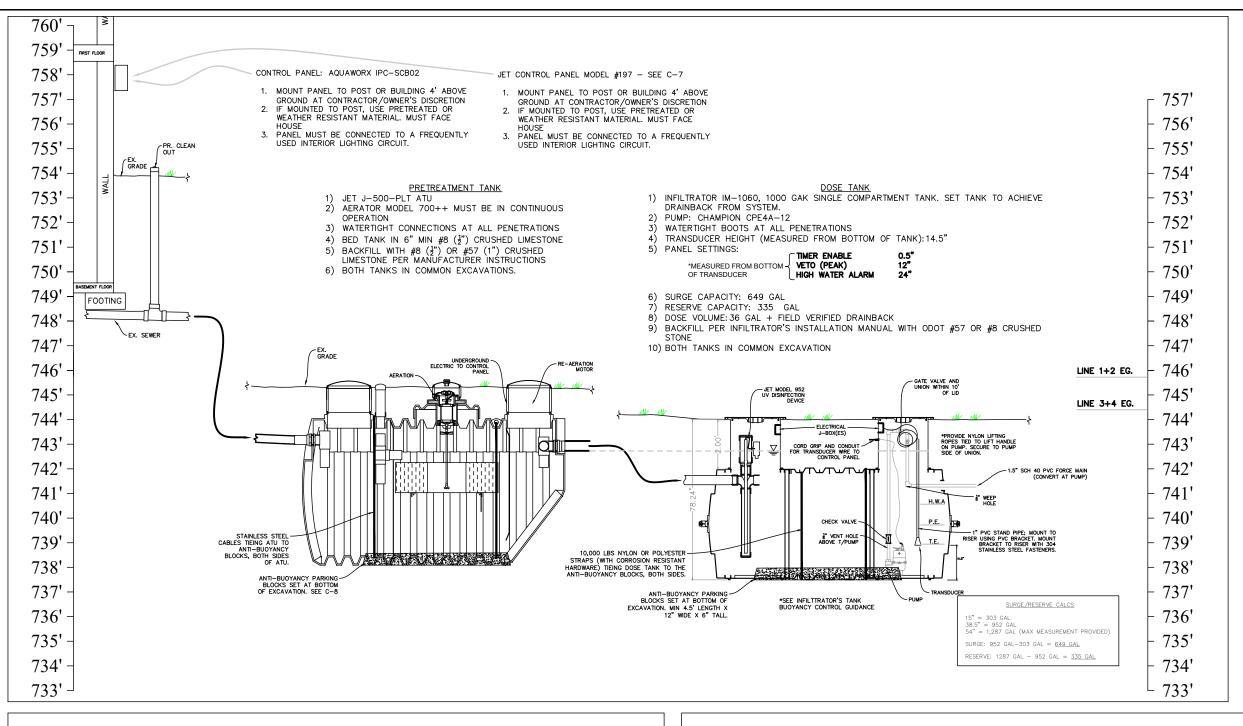
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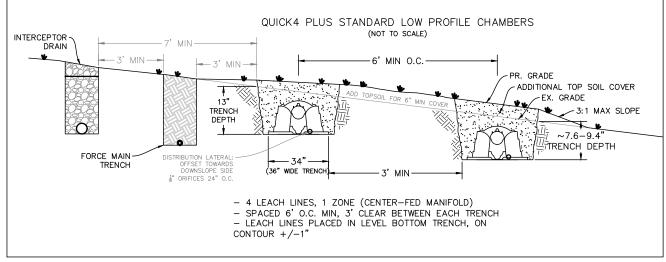
1"=80' N/A

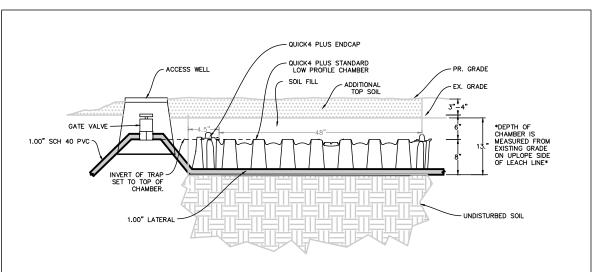
OB. NO. 21-169

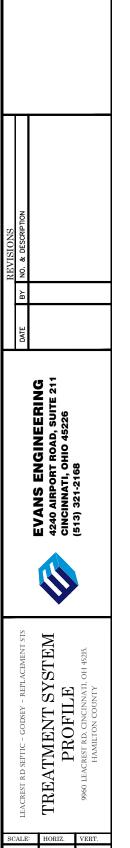
SHEET NO.











SHEET NO.

## LEACH LINE LAYOUT DETAIL LATERAL CLEANOUT WITH OBSERVATION PORT. 4" SCH 40 PVC OBSERVATION 1.5" SCH 40 PVC PORT INSTALLED IN TOP INLET OF 1" ORIFICE 24" O.C. W/ ENDCAP. 1.00" SCH 40 BALL VALVE MAIN TO LEACH ORIFICE SHIELD. FIRST 1.00" SCH 40 PVC -WITH SWEEPING 90 DEGREE ELBOW AND LAST ORIFICE TO LOW PRESSURE WITHIN OBSERVATION PORT. SEE DETAIL FACE UP, REMAINDER PRESSURE RATED TEES W/ LATERALS, TO BE BELOW. PLACE IN VALVE BOX. FACING DOWN THREADED FLUSH PLUGS LAID ON SOIL Σ CONVERT TO 1.00' GATE VALVE IN $\Box$ O.C. SCH 40 PVC ACCESS WELL TYP. EACH LATERAL -40' + ENDCAPS--40' + ENCAPS-MANIFOLD. 1.00" SCH 40 PVC \*SYSTEM LAYOUT ONLY. MAY NOT REFLECT ACTUAL NUMBER OF ORIFICES \*INSTALL LATERAL ON GROUND PER **INSTALLATION** NOTE: VALVE BOX REQUIRED FOR METHOD B (SEE C-6) PROTECTION. 4" SCH 40 PVC SHALL BE USED FOR INSPECTION PORT.

ACCESS FOR PRESSURE DRAINFIELD MAINTENANCE AND FLUSHING

INTERCEPTOR DRAIN-

ODOT #57 ROUNDED GRAVEL -

OR DECORATIVE GRAVEL

GEOTEXTILE FILTER FABRIC ~

ODOT #57 OR #8 ROUNDED GRAVEL

4" PERFORATED, CORRUGATED PE

OR SDR35 PLACED AT BOTTOM OF

TRENCH (MIN 0.5% SLOPE TO

ABOVE FILTER FABRIC

4" BELOW GRADE

DISCHARGE)

TRENCH (TYP)

24"

MIN

QUICK4 PLUS STANDARD LP

QUICK4 PLUS ALL-IN-ONE 8 ENDCAP

# Quick4 Plus All-in-One Inspection Port

- With a hole saw drill the premarked area in the top of the Quick4 Plus All-in-One Endcap to create a 4-inch opening.
- Set a cut piece of pipe of the appropriate length into the corresponding endcap's inspection port sleeve.

NOTE: Sleeve will accommodate up to a 4-inch Schedule 40 pipe.

- Use two screws to fasten pipe to the sleeve around the inspection port.
- 4. Attach a threaded cap or cleanout assembly onto the protruding pipe at appropriate height.

All-in-One inspection port.

A small valve cover box may be used if inspection port is below desired grade. EVANS ENGINEERING 4240 AIRPORT ROAD, SUITE 211 CINCINNATI, OHIO 45226 (513) 321-2168

7/22/2022



SYSTEM DETAILS
9900 LEACRET RD. CINCINNATI, OH 45215,
HAMILTON COUNTY

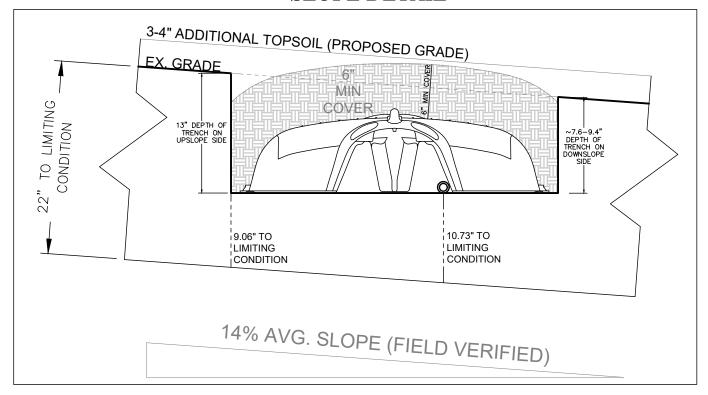
SCALE: HORIZ. VERT.

VARIES N/A

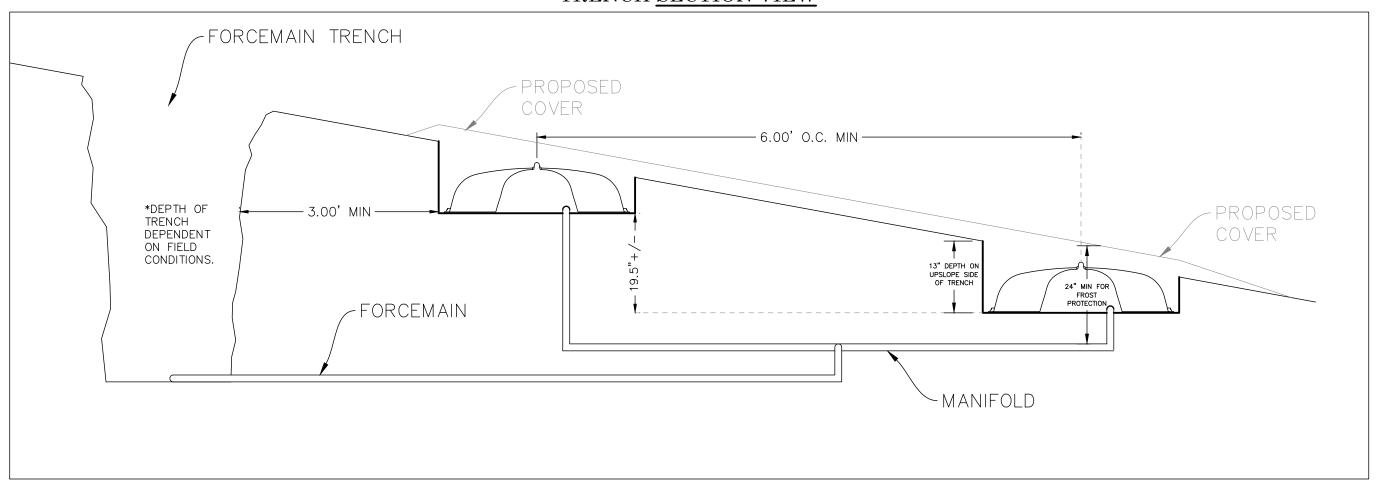
JOB. NO. 21-169
DATE July 22, 2022

SHEET NO.

# SLOPE DETAIL



# TRENCH <u>SECTION VIEW</u>



PATE BY NO. & DESCRIPTION

NO. & DESCRIPTION

ACCORDANCE OF STATEMENT OF STATEMENT

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TRENCH DETAIL
960 LEACREST RD. CINCINNAII, OH 45215.
HAMILTON COUNTY

SCALE: HORIZ. VERT.

VARIES N/A

JOB. NO. 21-169
DATE July 22, 2022

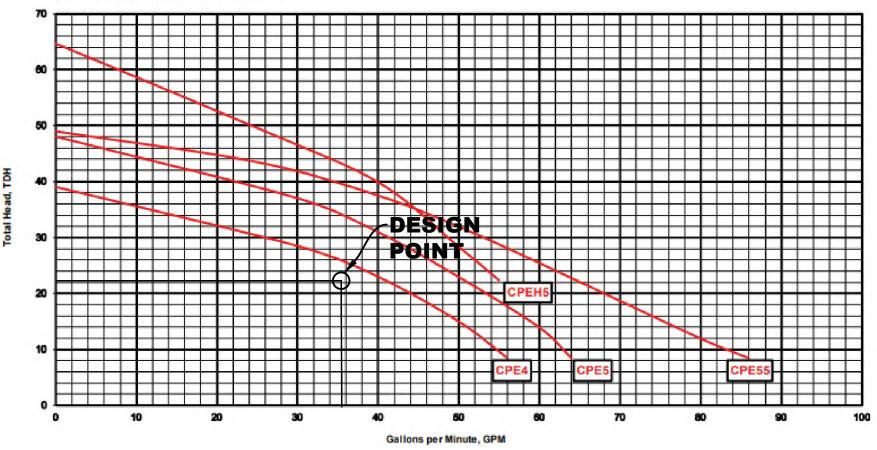
SHEET NO.

C-4.1

# PUMP CALCULATIONS

Parameters		
Discharge Assembly Size	2.00	inches
Transport Length	79	feet
Transport Pipe Class	40	
Transport Line Size	1.50	inches
Distributing Valve Model	None	
Max Elevation Lift	7	feet
Manifold Length	9	feet
Manifold Pipe Class	40	
Manifold Pipe Size	1.00	inches
Number of Laterals per Cell	4	
Lateral Length	39.9	feet
Lateral Pipe Class	40	
Lateral Pipe Size	1.00	inches
Orifice Size	1/8	inches
Orifice Spacing	2	feet
Residual Head	5	feet
Flow Meter	None	inches
'Add-on' Friction Losses	0	feet
, 144 311 1 HOUGH 200000	J	1001
Calculations		
Minimum Flow Rate per Orifice	0.43	gpm
Number of Orifices per Zone	80	
Total Flow Rate per Zone	35.1	gpm
Number of Laterals per Zone	4	
% Flow Differential 1st/Last Orifice	5.4	%
Transport \/alasity	5.6	fps
Transport Velocity		
, ,		
Frictional Head Losses	2.5	feet
Frictional Head Losses Loss through Discharge		
Frictional Head Losses Loss through Discharge Loss in Transport	2.5 5.5	feet
Frictional Head Losses Loss through Discharge	2.5	feet
Frictional Head Losses Loss through Discharge Loss in Transport Loss through Valve Loss in Manifold	2.5 5.5 0.0 1.4	feet feet feet feet
Frictional Head Losses Loss through Discharge Loss in Transport Loss through Valve Loss in Manifold Loss in Laterals	2.5 5.5 0.0 1.4 0.6	feet feet feet feet feet
Frictional Head Losses Loss through Discharge Loss in Transport Loss through Valve Loss in Manifold	2.5 5.5 0.0 1.4	feet feet feet feet
Frictional Head Losses Loss through Discharge Loss in Transport Loss through Valve Loss in Manifold Loss in Laterals Loss through Flowmeter 'Add-on' Friction Losses	2.5 5.5 0.0 1.4 0.6 0.0	feet feet feet feet feet
Frictional Head Losses Loss through Discharge Loss in Transport Loss through Valve Loss in Manifold Loss in Laterals Loss through Flowmeter 'Add-on' Friction Losses  Pipe Volumes	2.5 5.5 0.0 1.4 0.6 0.0	feet feet feet feet feet feet feet
Frictional Head Losses Loss through Discharge Loss in Transport Loss through Valve Loss in Manifold Loss in Laterals Loss through Flowmeter 'Add-on' Friction Losses  Pipe Volumes Vol of Transport Line	2.5 5.5 0.0 1.4 0.6 0.0 0.0	feet feet feet feet feet feet gals
Frictional Head Losses Loss through Discharge Loss in Transport Loss through Valve Loss in Manifold Loss in Laterals Loss through Flowmeter 'Add-on' Friction Losses  Pipe Volumes Vol of Transport Line Vol of Manifold	2.5 5.5 0.0 1.4 0.6 0.0 0.0	feet feet feet feet feet feet gals
Frictional Head Losses Loss through Discharge Loss in Transport Loss through Valve Loss in Manifold Loss in Laterals Loss through Flowmeter 'Add-on' Friction Losses  Pipe Volumes Vol of Transport Line Vol of Manifold Vol of Laterals per Zone	2.5 5.5 0.0 1.4 0.6 0.0 0.0	feet feet feet feet feet feet gals gals gals
Frictional Head Losses Loss through Discharge Loss in Transport Loss through Valve Loss in Manifold Loss in Laterals Loss through Flowmeter 'Add-on' Friction Losses  Pipe Volumes Vol of Transport Line Vol of Manifold	2.5 5.5 0.0 1.4 0.6 0.0 0.0	feet feet feet feet feet feet gals
Frictional Head Losses Loss through Discharge Loss in Transport Loss through Valve Loss in Manifold Loss in Laterals Loss through Flowmeter 'Add-on' Friction Losses  Pipe Volumes Vol of Transport Line Vol of Manifold Vol of Laterals per Zone	2.5 5.5 0.0 1.4 0.6 0.0 0.0 0.0	feet feet feet feet feet feet gals gals gals
Frictional Head Losses Loss through Discharge Loss in Transport Loss through Valve Loss in Manifold Loss in Laterals Loss through Flowmeter 'Add-on' Friction Losses  Pipe Volumes Vol of Transport Line Vol of Manifold Vol of Laterals per Zone Total Volume	2.5 5.5 0.0 1.4 0.6 0.0 0.0 0.0	feet feet feet feet feet feet gals gals gals

# PERFORMANCE CURVE



7/22/2022



PUMP DETAILS

SHEET NO.

# **Quick4® Plus Standard Low Profile Chambers Pressure Distribution Systems Installation Instructions**



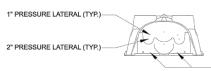
## **Before You Begin**

Quick4 Plus Standard Low Profile (LP) Chambers can only be installed according to state and/or local regulations. Soil and site conditions must be approved prior to installation. Conduct a thorough site evaluation to determine proper sizing and siting of the system before installation.

Materials and Equipment	
□ Quick4 Plus Standard LP     Chambers     □ Quick4 Plus 8 and/or All-in-     One 8 Endcaps     □ PVC Pipe and Couplings     □ Backhoe     □ Laser, Transit or Level     □ Tape measure	☐ Shovel and Rake ☐ Utility Knife ☐ 1 1/4-inch Drywall Screws* ☐ Screw Gun* ☐ Small Valve-cover Box* ☐ 4-inch Cap Inspection Port * Optional
These guidelines for construct followed during installation:	tion machinery must be
□ Avoid direct contact with cham equipment. Chambers require a 12 to support a wheel load rating of 1 H-10 AASHTO load rating.     □ Only drive across the trenches wheeled machinery over chambers.	2-inch minimum of compacted cover 6,000 lbs/axle or equivalent to an when necessary. Never drive
Avoid stones larger than 3 inch stones this size or larger that are in	

## Installing the Chambers and End Caps

1. To allow pressure laterals to drain after each dose, drill a hole in the bottom of the pipe at the end of the pressure line. Place the snap-off splash plate or a paving block at the bottom of the trench to protect the infiltrative surface from erosion.



1" OR 2" TRENCH BOTTOM PIPE PLACEMENT

- 2. With a hole saw, drill out the appropriate diameter hole to accommodate the pressure lateral pipe.
- 3. Insert the pressure lateral pipe into the end cap's drilled opening and slide it into the manifold pipe. Glue the pressure lateral pipe to the manifold pipe.



Drill pressure pipe hole

4. With the pressure lateral pipe through the end cap, place the back edge of the end cap over the inlet end of the first chamber. Be sure to line up the locking pins on the top of both the chamber and end cap.

Note: Health departments may require a wet-run pressure check to be done prior to chamber installation when the pipe is laying on the ground. Check with your local health department for the proper procedure.

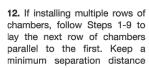


Place end cap over inlet end

Secure pressure pipe.

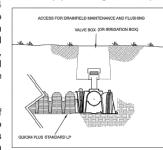
- 5. (Method A) Secure the pressure lateral pipe to the top of the first chamber with a plastic pipe strap at the outlet end of the unit. Slide the strap up through a slot in the chamber top, down through the other slot, and cinch the two ends around
- 6. (Method B) With the holes pointing up, stabilize the pressure lateral pipe on the ground to prevent it from moving.
- 7. Lift and place the next chamber onto the previous one at a 45-degree angle. Line up the chamber end between the connector hook and locking pin at the top of the first chamber. Lower it to the ground to engage the interlocks.
- 8. (Method A) Secure the lateral pipe to the top of the next chamber once in place. Follow the same method in Step 5.
- 9. Continue interlocking chambers and securing the pipe until the trench is completed.
- 10. Before attaching the final end cap, it may be necessary to remove the tongue of the connector hook on the last chamber with a pair of pliers depending on your pipe
- 11. Insert the pressure lateral pipe through the hole in the final end cap and slide the end cap toward the last chamber. Lift the end cap over the modified connector hook and push straight down to secure it to the chamber.

Note: If cleanout extensions are 11 required, use a hole saw to cut a hole in the top of the Quick4 Plus All-in-One 8 Endcap so the pressure lateral pipe with an elbow can extend to the ground surface. For cleanout access. use the "Installing Optional Inspection Ports" section in the general installation instructions.





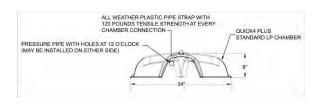
Lateral pipe through end cap.



between each row of chambers as required by local code.

### Advantages of Method A

- · Pipe and orifice placed closer to the chamber dome offer
- · Pipe positioned at the top of the chamber places it well above
- · Plastic pipe hanger easily secures pipe in place.



### Advantage of Method B

- · Pipe resting on the trench bottom allows easy installation and
- · Stabilizing "T's" keep pipe level.
- · System promotes efficient pressure checks.
- · Pipe resting on the trench bottom allows easier inspections if monitoring ports are installed.



SEE NOTE BELOW

## Infiltrator Water Technologies Limited Warranty

(a) The structural integrity of each chamber, end cap and other accessory manufactured by Infiltrator ("Units"), when installed and operated in a leachfield of an onsite septic system in accordance with Infiltrator's instructions, is warranted to the original purchaser ("Holder") against defective materials and workmanship for one year from the date that the septic permit is issued for the septic system containing the Units; provided, however, that if a septic permit is not required by applicable law, the warranty perod will begin upon the date that installation of the septic system commences. To exercise its warranty rights, Holder must notify Infiltrator in writing at its Corporate Headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator will supply replacement Units for Units determined by Infiltrator to be covered by this Limited Warranty. Infiltrator's liability specifically excludes the cost of removal and/or installation of the Units.

(b) THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE

(c) This Limited Warranty shall be void if any part of the chamber system is manufactured by anyone other than Infiltrator. The Limited Warranty does not extend to incidental, consequential, special or indirect damages. Infiltrator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damage to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units; the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions; failure to maintain the minimum ground covers set forth in the installation instructions; the placement of improper materials into the system containing the Units: failure of the Units or the septic system due to improper siting or improper sizing, excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty.

Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or shipment, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by State and local codes; all other applicable laws; and Infiltrator's installation instructions.

(d) No representative of Infiltrator has the authority to change or extend this Limited Warranty. No warranty applies to any party other than the original Holder

The above represents the standard Limited Warranty offered by Infiltrator. A limited number of States and counties have different warranty requirements, Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

Distributed By:



NOTE: STABILIZING TEE'S NOT REQUIRED IF USING METHOD B WITH ORIFICE SHIELDS. FIRST AND LAST ORIFICE TO FACE UP. ALL OTHERS TO FACE DOWN. SEE C-4.J

4 Business Park Road • P.O. Box 768 Old Saybrook, CT 06475 860-577-7000 • FAX 860-577-7001

1-800-221-4436 www.infiltratorwater.com

U.S. Patents: 4,759.661: 5,017,041: 5,156.488: 5,336,017: 5,401.116: 5,401.459: 5,511.903: 5,716.163: 5,588,778: 5,839,844 Canadian Patents: 1,329,959: 2,004,564 Other patents pending, Infiltrator and Quick4\* are registered trademarks of Infiltrator Water Technologies is a registered trademark in France. Infiltrator Water Technologies is a registered trademark in Mexico 2011 Infiltrator Water Technologies, LLC. All rights reserved. Printed in U.S.A.

7/22/2022

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INSTALLATION  $\delta$ DETAIL HAMBER

SHEET NO.



has a jumper selection for normally closed or normally open operation. The sensing signal at the auxiliary input terminal block is a current limited 12VAC. Note: Auxiliary contact three is interlocked with the pump relay and will deactivate the pump circuit. Do not use this contact for high water floats in pump tanks.

There is a blue power indicator LED that is lit when power is applied and the microcontroller is running. There is a one red LED for indication of aerator over or under current conditions. There are three red LEDs for indication of input error conditions on the auxiliary inputs. In normal operation, with no error conditions present, only the blue power indicator LED will be on. Auxiliary alarm circuits should be properly labeled on the wiring diagram or control panel cover.

### Alarm huzzer

The alarm buzzer sounds when an error condition exists. There is circuit board provision for an externally mounted or alternate model buzzer. When power is initially turned on, the buzzer will sound for 1/2 second to confirm that the buzzer is operational For purposes of testing or servicing, the buzzer can be silenced for alarm conditions by DIP switch setting.

Reset switch and master reset switch
The user accessible reset switch has dual functionality. If no alarm condition exists, and the reset switch is held down for at least two seconds, the microcontroller will perform a self-reset. If an alarm condition has been triggered, the reset switch will clear the alarm state. However, if the error condition is still present, the alarm may immediately re trigger. After the third reset press with a continuing alarm condition, the buzzer will be silenced, but the LED error conditions will not be cleared and no further operation is possible until the panel is reset by the master reset switch or by removal and reapplication of main power. The circuit board mounted master reset switch causes a



The circuit board has a connector configured to provide power and a triggering signal to select models of commercial, automatic telephone voice dialers. If an Auto-Dialer is installed on the model 197 Control Panel use wire ties to secure RJ-10 cable to LED array mounting posts to ensure there is no contact between the RJ-10 cable and 197 control panel printed circuit board



## Wi-Fi Interface The circuit board has an input/ouput dry contact location for low-voltage alarm leads to communicate any alarm condition to the Jet Wi-Fi module. Complete Wi-Fi module 90. wiring instructions are included with

Optional Pump Cycle Counter
The circuit board is designed with blade style contacts to allow connection of a pump cycle counter. The cycle counter will record each time power is supplied to the pump





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1-YEAR LIMITED WARRANTY

## Start Up Check List

These procedures should be performed by the Jet installer after all of the system components and aerators have been connected to the system. This test should only be conducted after the electrician has completed the panel installation and before occupation of the dwelling. Refer to the control panel settings and functions section to review that the proper DIP switch configuration is appropriate for the system installed.

- Make sure that the settings and pump controls are appropriate for the system configuration and comply with local regulations.
   Check the system wiring to ensure the installation instructions have been
- followed correctly.
- Yelcok to make sure all aerator, pump, and auxiliary connections are watertight. Ensure there is no exposed wiring prior to turning on the system.

  Set the control panel power switch to the "Off Position", and then turn power on
- at the main breaker panel for all of the system circuits.

  Turn on the control panel power, the self-test should alarm for two seconds then all alarms should return to normal state. The blue indicator light should now
- indicate that there is power to the panel and circuits.

  Check to make sure all system components are operational. If a pump is connected to the system, it may not immediately function depending on additional float and timer control settings.

  Test all inbound and outbound power with a multi-meter. All circuits should have
- between 105 and 132 volts AC power supplied to the aerator, compressor, and
- pump circuits.

  ✓ If aerator circuits are set for timer intervals, the cycle will begin with the on aerator condition. To observe aerator timer intervals additional time will need to be spent on site, or use the "Test Mode" to accelerate the timer cycles. If tests are not satisfactory, recheck and correct the system wiring as needed.

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- ✓ Once all checks are completed, return the "Test Mode" to its normal position and
- reset the control panel with the "Master Reset" switch.

  ✓ Make sure to correct distributor information is on the front of the panel and complete the control panel warranty card with the appropriate information

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Problem	Probable Cause	Solution
No Power to Panel	No power from main breaker panel     Internal panel power switch in off position	Check wiring an main breaker pa     Check on/off sw
Aerator Alarm After Start Up	Aerators not connected and running     DIP aerator selection incorrect     Aerator/Compressor DIP setting incorrect	Check aerator(s and connections     Confirm DIP settings are con for system design
Auxiliary Alarm After Start Up	Alarm settings incorrect (NO/NC)     Alarm or float condition is active	Check alarm se jumpers for prop NO/NC     Check external devices and float
No Power to Aerators	Inbound power inactive     Timer setting in "Off"     cycle	Check connection and main break panel     Reset panel to override "Off" cy
No Power to Pump	Inbound power inactive     Alarm condition active	Check connection and main break panel     Resolve alarm conditions
Auxiliary Outputs Inactive	DIP settings incorrect     Excessive load on     external device	<ul> <li>Check DIP setti</li> <li>Confirm power requirements fo external device</li> </ul>
Aerator Timer Not Functioning	Incorrect DIP settings	Check DIP setti
Aerator Reset Not Functioning	External reset locked out     External toggle not contacting button	<ul> <li>Reset panel with Master Reset be</li> <li>Adjust depth of external toggle</li> </ul>
Aerator Alarm with Compressor	<ul> <li>DIP not set to compressor function</li> </ul>	<ul> <li>Check DIP setti</li> </ul>
Alarms not Functioning	Automated reset program active (Normal Function)	<ul> <li>Toggle test mod "ON" if instant alarms desired</li> </ul>

Troubleshooting Guide

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Jet Inc. 750 Alpha Drive Cleveland, OH 44143 ww

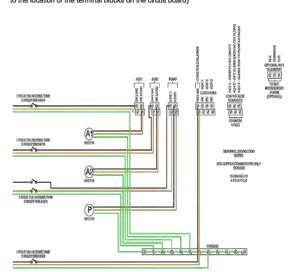
## **Electrical Wiring Diagram**

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Refer to the wiring diagram below when connecting aerators, compressors, pumps, and auxiliary equipment to the Jet model 197 control panels. (Note: The location of the terminal blocks has been re-formatted for this manual and does not exactly correspond to the location of the terminal blocks on the circuit board)



WIRING DIAGRAM-MODEL 197 CONTROL PANEL

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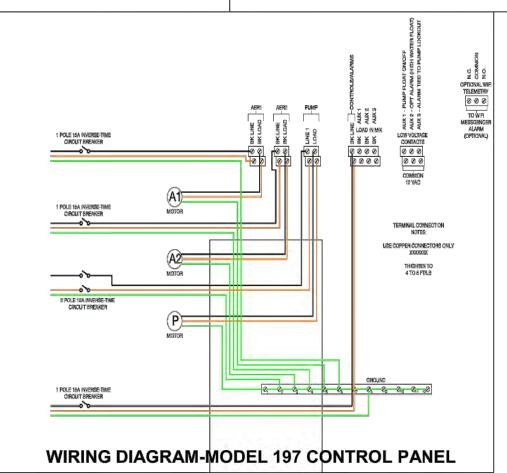
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Jet Inc. warrants all new system components supplied by Jet against defective materials and workmanship, under normal service for one year commencing upon date of shipment from the factory. To make a claim under this warranty, you should notify your Jet Distributor or notify Jet Inc., Customer Service Department by phone at 1-800-321-6960 or by mail at 750 Alpha Drive, Cleveland, Ohio 44143. If a component or part is proven defective during this warranty period there shall be no charges for labor or materials required for the repair or replacement of the defective component. Jet shall have the option to require the defective part be returned, freight prepaid, for evaluation at the factory before allowing a claim. All components must be returned by an authorized Jet distributor who is in good standing with Jet Inc. Jet Inc. may, at its option, elect to repair or replace the defective components, or refund the purchase price of the defective component(s). The system owner shall assume all responsibility for freight charges to and from Jet Inc. This warranty does not cover system components or parts that have been (I) damaged due to disassembly by unauthorized persons, improper installation, misuse, or lightning, (II) subjected to external damage, (III) damaged due to improper or altered wiring, or overload protection, or (IV) damaged by failure to follow the suggestions outlined in any associated product documentation or Owners Manuals. Items normally consumed in service such as fuses, filter cartridges, spin plates, grease, oil, etc. are not warranted. This warranty applies only to the Jet system components supplied by Jet Inc. and does not include any of the wiring, plumbing, drainage, or any other part of the disposal system.

JET INC. SHALL NOT BE HELD RESPONSIBLE FOR ANY DAMAGES CAUSED BY DEFECTIVE COMPONENTS OR MATERIALS, OR FOR LOSS INCURRED BECAUSE OF THE INTERRUPTION OF SERVICE, OR ANY OTHER SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES OR EXPENSES ARISING FROM THE MANUFACTURE, SALE, USE OR MISUSE OF THE COMMERCIAL TREATMENT PLANT, THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES, ANY WARRANTY IMPLIED BY LAW, INCLUDING FITNESS IS IN EFFECT ONLY FOR THE ONE YEAR WARRANTY PERIOD SPECIFIED ABOVE. (SOME STATES DO NOT ALLOW EXCLUSIONS OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR ALLOW LIMITATIONS OF HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO

Jet Inc. reserves the right to revise, change, or modify the construction and design of the Jet system components or any component part or parts thereof supplied by Jet, without incurring any obligation to make such changes or modifications in present equipment. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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ANS ENGINEERING SARPORT ROAD, SUITE 211 SINNATI, OHIO 45226 ) 321-2168 /ANS EVA 4240 CINCI (513) DETAILS

PANEL 1

SCALE: HORIZ. VERT.

SHEET NO.

C-7

VARIES N/A

7/22/2022

## Installation - Tank & Aerator J-500PLT - 800 PLT Series

### NSF LISTED PLANTS

These instructions apply to J-500PLT - 800PLT plants. This series includes a 500, 750 and 800 GPD

J-500 PLT - 800 PLT plants have been tested and meet NSF Standard 40 criteria for a Class I NSF

J-500 PLT – 800 PLT media installation is done by the distributor before the tank is delivered. There are 2 different sets of media that can be installed depending on total flow.



### TANK INSTALLATION

### IMPORTANT NOTES:

- 1. Install tank in water saturated clay or in a high water table
- Install tank under areas where there is motorized traffic.
   Backfill with clay soil

 Completely fill the tank with water after installation 2. Refill the tank with water immediately after pumping

Only residential wastewater should be permitted to enter the system. The plant is not designed to receive flow from footer drains or roof downspouts or other storm water sources. The system should be located in an area

which provides protection of the air intake from snow, ice or debris which may accumulate.

It is important that all local and state laws and plumbing codes regarding the plant installation process be followed. Appropriate installation permits are required for all installations. Items such as the connection of plumbing fixtures to the tank inlet line, position of inlet and discharge lines, grade and any other aspects of plant or plant related plumbing should be checked with the appropriate contractors to make sure all work conforms to local and state regulations. A pre-construction conference with all interested parties is strongly

This system is not designed to be installed above ground. Special procedures are required for above ground or

Location of the tank must be in accordance with Health Department regulations in accordance with site design plans. Ideal location will be on ground which will not flood, which provides adequate fall and allows installation of lines which are as short and straight as possible

There are many considerations in proper installation of a tank and the most important of which is that the tank installation meets the Health Department's regulations.

Jet systems may only be installed by authorized installers, who must be present during all phases of

### ANTI-FLOTATION DEVICE:

Note: It may be necessary to secure the tank with anti-flotation devices. Refer to the J-500-800PLT Bouyancy Tech Sheet.

- 1. Verify the excavation is free of sharp stones and debris. The excavation should be level.
- 2. Allow for 9" to 24" of earth cover over the top of the tank. (approx. 7"-8"depth)
  3. There should be sufficient over dig to allow for at least 12" of clearance on all four sides of the tank.
- (approx.7'x13')

  4. Verify there is a solid earthen pad to sit the tank on. Consider using a compacted mixture of sand and gravel (6" minimum in soil and 12" minimum in rocky terrain). Clay soils are not suitable for

## TANK SETTING:

- Verify the tank is free of damage that may have occurred during transportation.
- 2. Verify rubber gasket and plastic tee has been installed in the inlet and outlet ports on the tank.

  3. Place the tank in the excavation site and level to within 1" end to end and side to side.

  4. Install extension risers if necessary, be sure to seal with mastic sealing and appropriate hardware.

- 5. If required, attach additional aerator risers to the center cover. Seal with mastic sealing
- 6. Install inlet and outlet sewer lines and seal in place. Sewer lines should be 4" diameter
- 7. Cover all openings

### BACKFILLING TANK:

- . Fill 1/3 of the tank with water before backfilling begins to ensure tank will not shift during
- process.

  2. Begin to backfill under the sloped clarifier.
- 2. Segin to dacani inter or subject claims.
  3. The sloped clarifier wall must be supported to reinforce the tank walls. A mixture of sand and/or gravel must be used to backfill the inlet and outlet side walls of the tank. Jet recommends the backfill mixture consist of material no larger than 1/4° in diameter. The backfill should be added while compacting every 12" to ensure all void space under the sloped walls and around the inlet side walls has been
- completely filled.
  4. Once the tank has been backfilled to the center line (above the sloped wall) the upper half of the tank can be backfilled with suitable native, preferably loose, soil; Never backfill with clay soils. Be sure the backfill is free of rocks and sharp objects.
- 5. Tamp and compact backfill mixture under the inlet and outlet pipes.
- Fill the tank with water to the outlet.
- Test for Proper Drainage Be sure tank is full to the flow line. Fill bathtub, laundry sinks, and any other fixtures that drain into system. Then, simultaneously drain all these fixtures and flush tollets. Observe any rise in water level of tank. If the water rises over 3° and does not go down immediately, inform contractor that agrator cannot be installed until this situation is corrected
- Backfill the rest of the excavation to a maximum of 24" above the top of the tank with earth fill material. The final grade should slope away from the tank to help with surface runoff.

### AFRATOR INSTALLATION

- When installing the aerator be extremely careful of aspirator shaft. It has a very critical straightness
- tolerance. Don't ever let it touch anything except liquid. Also remember that the fit between coupling and aspirator shaft is quite close. Be careful not to burn or dirty the ends of either part. Jet aerators have been carefully designed and built to give years of trouble-free operation. To assure this long, trouble-free lefe, it is absolutely necessary to carefully follow the aerator installation and handling
- Life of the aerator depends on a straight shaft. Never lift aerator by the shaft or subject the shaft to any bending, bumping, or strain. Never let the shaft contact anything but liquid.

  You can eliminate well over 50% of your service calls if you always inspect the system and test for proper
- drainage at installation time.
- Jet Floodproof model agrators are sealed to protect them from water damage by flooding. It is, however, not
- designed to operate under water. Do not disassemble it or remove plugs or bolts.

  The "Control Panel Installation and Users Manual" contain a wiring diagram and detailed wiring instructions.

  An electrical specification and requirements chart, is located on the inside of each Control Panel.

### INSTALLATION STEPS

- 1. Turn Off Power Turn the aerator Control Panel switch to "OFF". Next turn power that controls this circuit at main panel "OFF".

  2. Check Aerator/Flow Line Measurements Location of aerator to flow line is very important. Measure
- distance from ledge in the aerator riser to liquid level in tank. Tank must be full to flow line. If it is
- between 25" to 27", aerator location is correct. If it is not, aerator riser may not be installed correctly.

  Check Vent Position Check position of vent cap in cover. It must be installed in center of cover as shown in illustration. If vent cap is not centered, the outside-air-hose will bend and air to the aerator 3

- 4. Inspect Outlet Inspect final discharge point of system to insure it is not and cannot become blocked. If there is a chance that it may become blocked in the future, inform owner and contracto that this situation must be corrected before you can install aerator. Tell them blockage will lead to improper drainage and repeated stoppages "I his can be avoided by preventive action now. (DO NOT INSTALL AERATOR IF SUCH A SITUATION EXISTS.)
- Unpack Aerator a. Remove all manuals and paperwork. These should be left with the system or given directly to the
- b. Carefully remove aspirator shaft. Slide foam restrictor onto shaft so that side of foam restrictor labeled "This side toward motor" faces away from aspirator. Set this down gently in a safe place.
- c. Remove parts bag, owner's manual, and aerator. Because the aerator fits tightly into carton, it
- helps to grip the bottom of carton with your feet when pulling it out.

  d. Inspect all parts for shipping damage. Notify the carrier immediately if there is any damage.

  e. When handling the shaft be careful not to burr the ends of the coupling and aspirator shaft be-
- cause the fit is quite close. f. Exposing aerator to severe cold, such as the back of a truck or an unheated storage area, could cause circuit breaker to trip when power is first applied due to the drag from cold bearing grease To prevent this problem, place aerator in a warm area (cab of truck) for a short time before instal lation. After the aerator is initially started, cold weather will not affect its operation.
- 6. Electrical Connection Before proceeding, make sure power is "OFF" at both the agrator Control Detailed Collection Peorite groceoung, Indeed sale power is OFF at unit the aerator control Panel and at the main electrical panel in the house. Test all three leads of cable with a multi-meter to be sure power is "OFF". Check the dimension of the underground cable to make sure it is not smaller than 23/64" x 11/64". If it is smaller, the grommet will not be watertight.
- a. Factory-installed cord & connector. Install female half of electrical connector on end of cable, in mounting casting, coming from
- facility. Connect two halves of connector.

  ii. Strip the jacket of cable coming from facility approximately 1 1/4". Strip 1/4" of insulation from black and white lead wires.
- iii. Connect wire to internal connectors on Female half of electrical connector, note color coded terminals designate power, neutral, and ground (brass, sliver, green)
  iv. Connect two halves of connector.
  all Foam Restrictor and Aspirator Shaft
- NOTE: An aerator lying on its side would rest on the foam restrictor and bend the aspirator shaft or notor shaft. For this reason, it is necessary to either block up lower end of the aerator, or allow it to overhang an object during installation of aspirator shaft.

  a. Slide foam restrictor down shaft until it stops at ground-step on aspirator shaft. Tighten set screw
- firmly. The Allen key should spring, but do not tighten it so much that it slips and rounds out the
- b. Slide aspirator shaft into coupling already attached to aerator motor shaft until foam restrictor slops against coupling. Firmly tighten the two set screws closest to foam restrictor. The Allen key should spring, but do not tighten it so much that it slips and rounds out hex socket. c. To ease future disassembly, many distributors apply a light coating of lubricant, petroleum grease
- to end of motor and aspirator shaft. If lubricant is applied do not use too much or allow it to get into the hollow end of the connector or shaft.

  8. Fit Brackets - if the bumpers on the bottom brackets do not press against all sides of aerator riser, remove aerator and spring brackets out until all of them touch the sides. The fit should be snug, but
- not tight enough to push bumpers off when aerator is installed.

  9. Install aerator in itser. If extension risers are used, it is easier to initiall or remove an aerator using a lift fork that is supplied in latirbulor's tool kit. The lift fork can be screwed onto a piece of 1" threaded pipe (supplied by distributor). A 5" length should be adequate for most installations. The lift fork should
- be positioned under the aerator lift handle. 10. Install Drip Loops. Once aerator is installed, push cable down below connector an inch or This forms a "drip loop" which channels any water running down the cable away from the aerator.
   Rotate Aerator Clockwise. Looking down at installed aerator, rotate it clockwise until one of the mounting brackets engages the anti-rotation bolt. This prevents cutting off the air supply by twisting of

the air hose and also eliminates electrical problems caused by twisted cables.

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- 12. Place 4 1/2" Outside-Air-Hose on hose adapter attached to aerator.
- IMPORTANT: Hose must be in place to insure fresh air for optimum treatment and plant performance. If one or more risers are used, a longer hose is required. Remove the air hose from the top of the aerator and cut a piece from a bulk coil (sold separately) and install it. It must be long enough to fit completely on the plastic hose adapter (top, center of aerator over shaft) and go straight up into the center of the vent. Be sure hose is properly installed in vent cap, It must not be bent or kinked when the fiser cover is replaced. After the riser cover is in place, remove the vent cap and check position of hose. It should be in the vent body but not close enough to the vent lid to restrict air flow.

  13. Perform Electrical Test. The control panel installation and user's manual is provided with every Jet
- control panel. Read these before proceeding.

  a. Check to be sure the Control Panel installed is the correct one for the system and ensure that it includes an autodialer and pump lockout feature to disable discharge in the event of an alarm condition if required by local and state codes.

  b. Check the wiring to be sure all the above instructions have been followed. If necessary, have the
- electrical contractor correct the work.
- c. Set the Control Panel switch to the "OFF" position. Turn the power to the Control Panel circuit "ON" at the main panel. With the aerator installed and operational, there should be no audible or
- d. Test for power to the panel. Use a multi-meter to confirm proper voltage to the panel and compo-
- nents. Operating voltages for the control circuit and aerator are 120 volts +7-10%.

  e. Check each circuit for proper polarity by placing one prod of the multi-meter on terminal and the other prod to the common wive in the Control Panel.

  f. If the Control Panel is equipped with an auto dialer, program the autodialer according to the in-
- structions provided. Trigger an alarm to confirm that the autodialer is functional and the land line nas been activated. Test the power to the pump circuit. If equipped with lock-out feature, initiate an alarm condition
- and confirm that the pump circuit power has been disabled. Return the alarm condition to normal If these tests or checks are not satisfactory, correct the wiring or contact an electrician
- When all checks are completed, make sure the Control Panel switch is in the "ON" position.
   Close and secure the Control Panel cover.
   4. Observe Aerator Operation. It should be quiet and free from excessive vibration. Heavy vibration indicates shaft damage. If heavy vibration occurs, install a new shaft and return the shaft that is damaged.
- to the factory.

  15. Install aerator riser cover.

  16. Final Steps.

  a. Completely fill in label on front of Control Panel cover.
- Remove the red "Notice to Occupant" tag from Control Panel.
- Fill in "Installation and Service Record" card.
- Explain "Owner's Manual" to owner and wire manual to the Control Panel. Instruct owner to fill in 
  "Owner Warranty Registration" card and mail it.
- e. Record all installation information including address, date of start up, permit number, and status
- of contracts on the "Install Checklist". Complete start up inspection and checklist and submit copies to Jet Inc. and the local administrative authority.

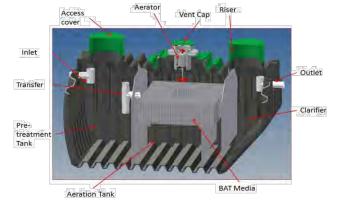
- Always pump down the pre-treatment tank first. The transfer tee in the baffle wall between the pre-treatment and treatment tank will allow water to move freely into the pre-treatment tank.
   After the pumping of the pre-treatment tank is complete, pump remaining liquid from the treatment
- 3. Fill the tank with water immediately after pumping, starting with the pre-treatment

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EFFLUENT TESTING: Effluent Sample Means - Collection and assessment of effluent samples is required for all NSF Listed plants. There are four sample taking means from which samples may be taken. One of these methods must be chosen prior to plant installation and necessary arrangements made during

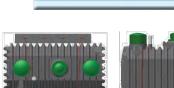
- installation to incorporate this method into the overall system. For information on "Collecting & Assessing Samples" see "Plant Inspection & Service" instructions. The means are as follows:

  a. Final Outlet Samples Can be taken at the final outlet point if it is accessible. The final outlet must be elevated sufficiently to allow a free-flowing sample to be taken.
- b. Sample Cross Samples The cross must be as close as possible to the discharge end of the tank. One horizontal arm of the cross should act as the first section of the discharge line from the tank. The other horizontal arm acts as a continuation of the discharge line. One vertical arm of the cross extends downward and the other extends up to grade. The arm to grade should be covered with a removable cover.
- c. Distribution Box Samples To use this method the hox must have an injet line high enough above the box floor so that a free-flowing sample can be taken. Also the top of the box must be slightly above grade and covered with a removable cover. If the box doesn't meet these qualifications it must be modified so that it does or this method of sample collection cannot be
- d. Baffled Outlet Samples -- A sample from inside the plant outlet baffle may be taken. The outlet must have an open top and the plant discharge line must lead directly to it. It must also be accessible from grade and covered with a removable cover. Baffles are usually constructed with



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\_/Jet Jet J-500-800PLT BUOYANCY When the J-500-800 PLT is to be installed in areas where high water tables are common, additional anti-buoyancy measures should be installed. Jet recommends using concrete anchors placed beside the tank in the excavation and secured to the tank with properly rated corrosion resistant straps. Straps may be routed through the lifting lugs on the tank to ensure they will not shift IGINEERING F ROAD, SUITE 211 PHIO 45226 of additional hold down weight needed for the burial depth of the installation and soil density from a registered soil scientist's report. When nstalled, the total weight of the anchor and the soil above the anchor must be greater than the weight shown in the table. For maximum effectiveness, the anchors should be installed as low as possible in the excavation. EN GRIT





737.6296 442.5945 147.5595



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Note: the table shows the required weight to hold a tank in place, if it is filled with water. Do NOT leave a plastic tank





SYPROFIL ENT RE

STEM

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SCALE: HORIZ. VERT. 1"=3' N/A

SHEET NO.