

Harnett County Department of Public Health Improvement Permit

A building permit cannot be issued with only an Improvement Permit

ISSUED TO: Davidson Homes, LLC PROPERTY LOCATION: 47 Blue Monarch Ln. (Christian Light Rd. -
 SUBDIVISION Prince Place LOT # 25

NEW REPAIR EXPANSION Site Improvements required prior to Construction Authorization Issuance: _____

Type of Structure: 44x70 sfd, 3 beds 3.5 bath

Proposed Wastewater System Type: 25% Reduction Sys.

Projected Daily Flow: 360 GPD

Number of bedrooms: 3 Number of Occupants: 6 max

Basement Yes No

Pump Required: Yes No May be required based on final location and elevations of facilities

Type of Water Supply: Community Public Well Distance from well NA feet

Permit conditions: _____ Permit valid for: Five years No expiration

Authorized State Agent: [Signature] Date: 02/14/2022 SEE ATTACHED SITE SKETCH

The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This site is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit.

Construction Authorization (Required for Building Permit)

The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by references into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.

ISSUED TO: Davidson Homes, LLC PROPERTY LOCATION: 47 Blue Monarch Ln. (Christian Light Rd
 SUBDIVISION Prince Place LOT # 25

Facility Type: 44x70 sfd, 3 beds 3.5 bat New Expansion Repair

Basement? Yes No Basement Fixtures? Yes No

Type of Wastewater System** 25% Reduction System (Initial) Wastewater Flow: 360 GPD

(See note below, if applicable) 25% Reduction System (Repair)

Installation Requirements/Conditions Septic Tank Size <u>1000</u> gallons Pump Tank Size _____ gallons	Number of trenches <u>3</u> Exact length of each trench <u>100</u> feet Trenches shall be installed on contour at a Maximum Trench Depth of: <u>18</u> inches (Trench bottoms shall be level to +/-1/4" in all directions)	Trench Spacing: <u>9</u> Feet on Center Soil Cover: <u>6</u> inches (Maximum soil cover shall not exceed 36" above the trench bottom)
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Pump Requirements: _____ ft. TDH vs. _____ GPM Aggregate Depth: NA inches below pipe
NA inches above pipe
 Conditions: Proposal by Mitchell Enviromental / Gravity to D-Box Equal Distrib NA inches total

**WATER LINES (INCLUDING IRRIGATION) MUST BE 10FT. FROM ANY PART OF SEPTIC SYSTEM OR REPAIR AREA.
 NO UTILITIES ALLOWED IN INITIAL OR REPAIR DRAIN FIELD AREA.**

***If applicable: I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.*

Owner/Legal Representative Signature: _____ Date: _____

This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be transferred when there is a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. SEE ATTACHED SITE SKETCH

Authorized State Agent: [Signature] Date: 02/14/2022
ANDREW CORN Construction Authorization Expiration Date: 02/14/2027

Application # SFD2201-0051

Harnett County Department of Public Health Site Sketch

Property Location: 47 Blue Monarch Ln. (Christian Light Rd. - SR 1412)

Issued To: Davidson Homes, LLC

Subdivision Prince Place

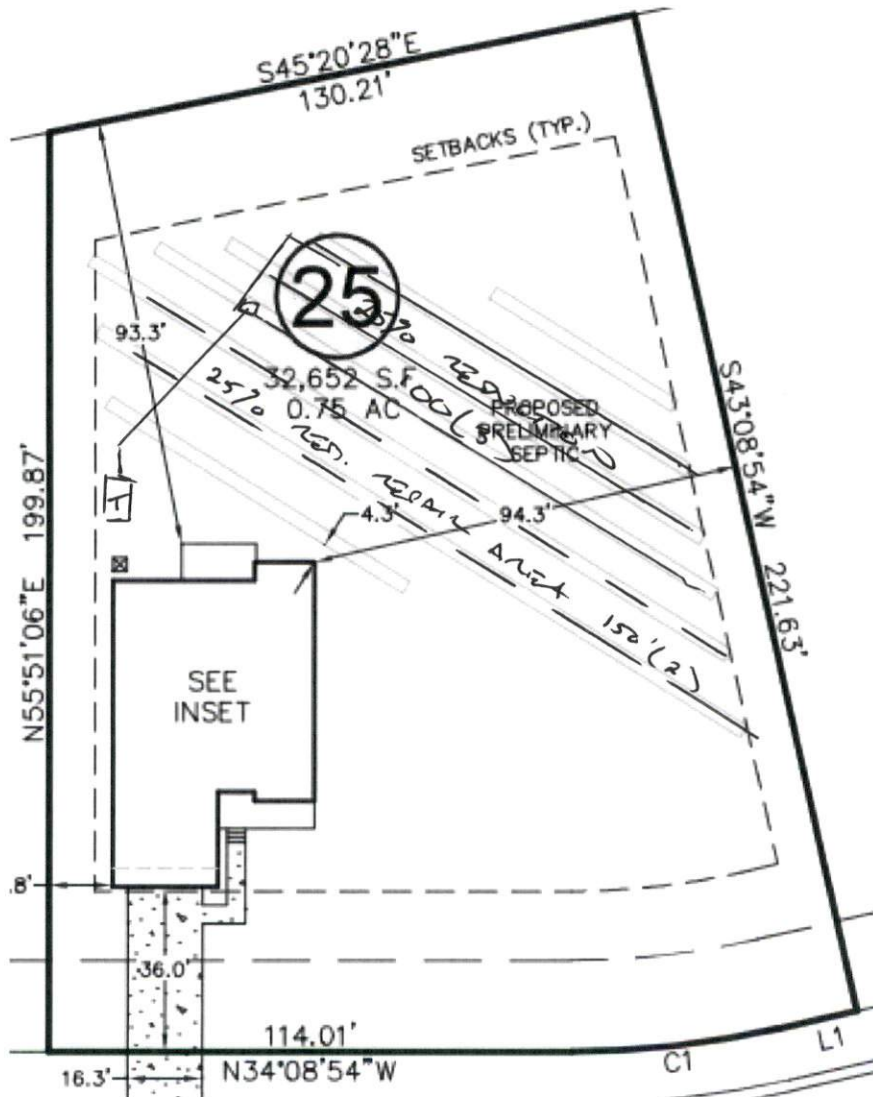
Lot # 25

Authorized State Agent: _____



Date: 02/14/2022

ANDREW COLLINS



* GRAVITY TO D. BOX EQUAL DISTRIBUTION REQUIRED

* PROPOSAL BY MITCHELL ENVIRONMENTAL

* SHIFT SYSTEM AS FAR TO RIGHT P.O.L. TO KEEP AWAY FROM BEAM

This drawing is for illustrative purposes only. System installation must meet all pertinent laws, rules, and regulations.

Mitchell Environmental, P.A.

SEPTIC SYSTEM DESIGN

for

PRINCE PLACE SUBDIVISION- LOT 25

Fuquay-Varina, Harnett County, North Carolina

Submitted to:

Harnett County Health Department
307 Cornelius Harnett Blvd.
Lillington, NC 27546

Prepared for:

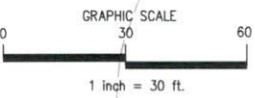
Davidson Homes, LLC
336 James Record Road
Huntsville, Alabama 35824

Prepared by:


Scott Mitchell, PE, LSS
Adam Aycock, EI

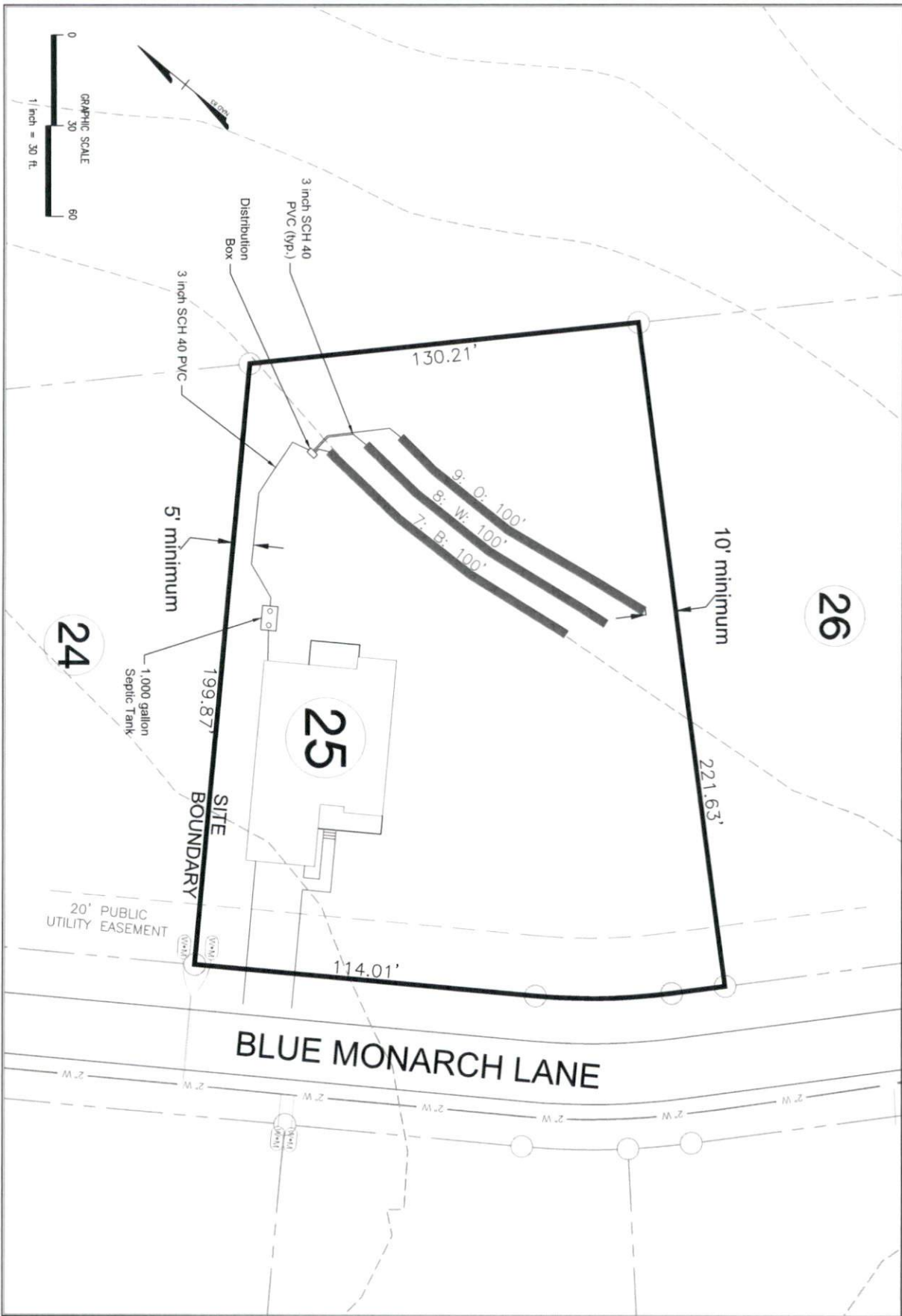
DATE: January 12, 2022

PROJECT NO.: 4321



3-Bedroom
LTAR: 0.3 gpd/ft²
Initial: Gravity conventional
utilizing lines 7-9 (300')
Repair: Gravity conventional
utilizing lines 5-6 (300')

 <p>MITCHELL ENVIRONMENTAL, PA C-2917</p> <p>1501 LAKESTONE VILLAGE LANE SUITE 205 FUQUAY VARINA, NC 27526</p>	<p>DATE: January 12, 2022</p> <p>ENGINEER AND SOIL SCIENTIST CONTACT: SCOTT MITCHELL, P.E., L.S.</p> <p>DRAWN BY: ADAM AYCOCK, E.I.</p>	<p>REVISION NO. Original Submitted</p> <p>Revision 1</p> <p>Revision 2</p> <p>Revision 3</p> <p>Master Set</p>	<p>DATE: January 12, 2022</p> <p>Prepared For: Gordon Homes, Division of Woodbury, Al 35024</p>	<p>SHEET NUMBER</p> <p>1 of 5</p> <p>Prince Place Lot 56 Overall Septic</p>
	<p>DATE: January 12, 2022</p>	<p>Revision 1</p> <p>Revision 2</p> <p>Revision 3</p> <p>Master Set</p>	<p>DATE: January 12, 2022</p>	<p>DATE: January 12, 2022</p>
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MITCHELL ENVIRONMENTAL, PA
C-2911
1501 LAKESTONE VILLAGE LANE
SUITE 205
FUQUAY VARINA, NC 27526

PREPARED FOR: Davidson Homes
336 James Record Road
Huntsville, AL 35824

DATE: January 12, 2022

ENGINEER AND SOIL SCIENTIST CONTACT:
SCOTT MITCHELL, PE, LSS

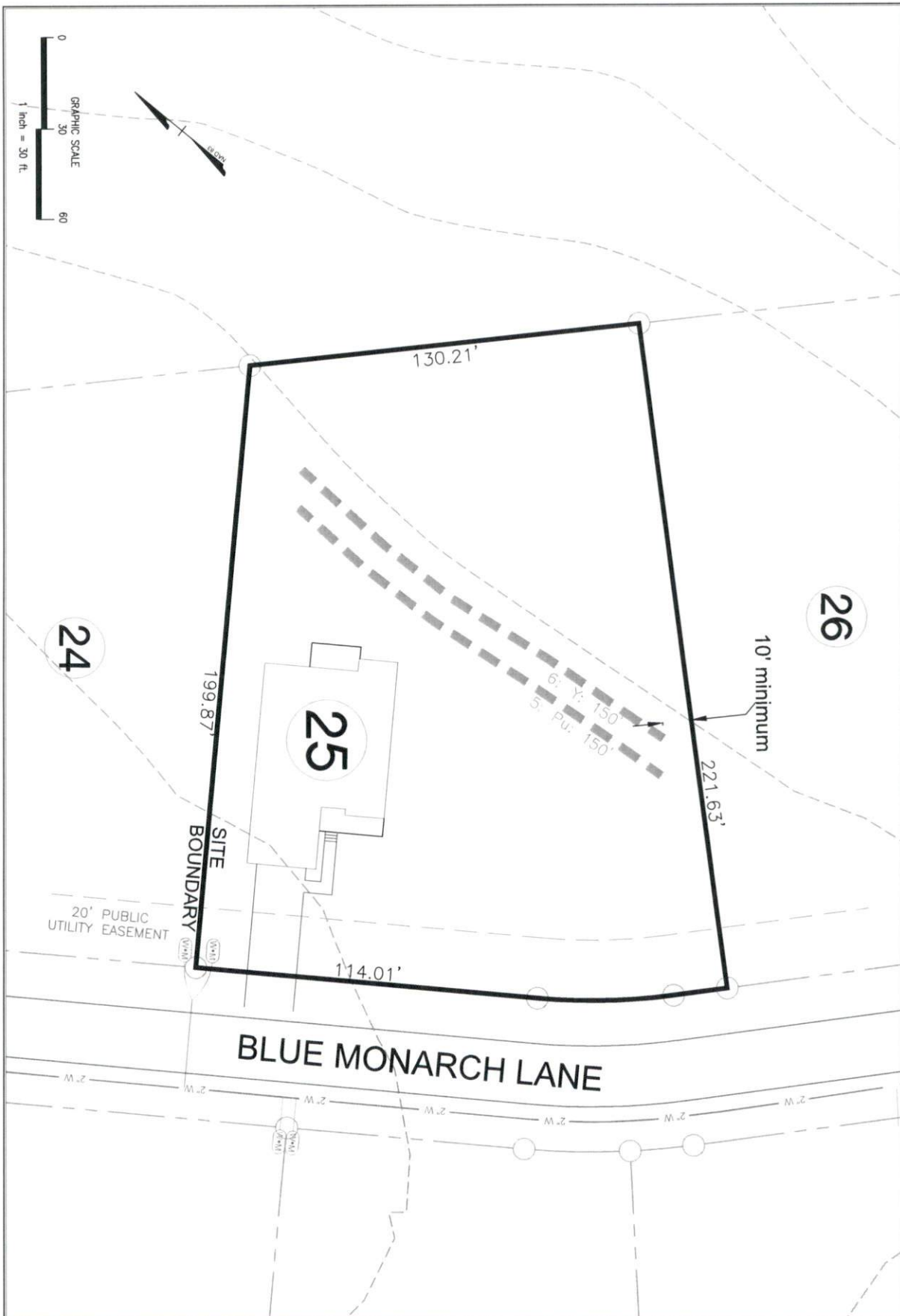
DRAWN BY:
ADAM AYCOCK, DI

REVISION NO.	DATE
Original Submittal	January 12, 2022
Revision 1	-----
Revision 2	-----
Revision 3	-----
Master Set	-----

SHEET NUMBER

2 of 5

Prince Place
Lot 25
Initial Nitrification Field

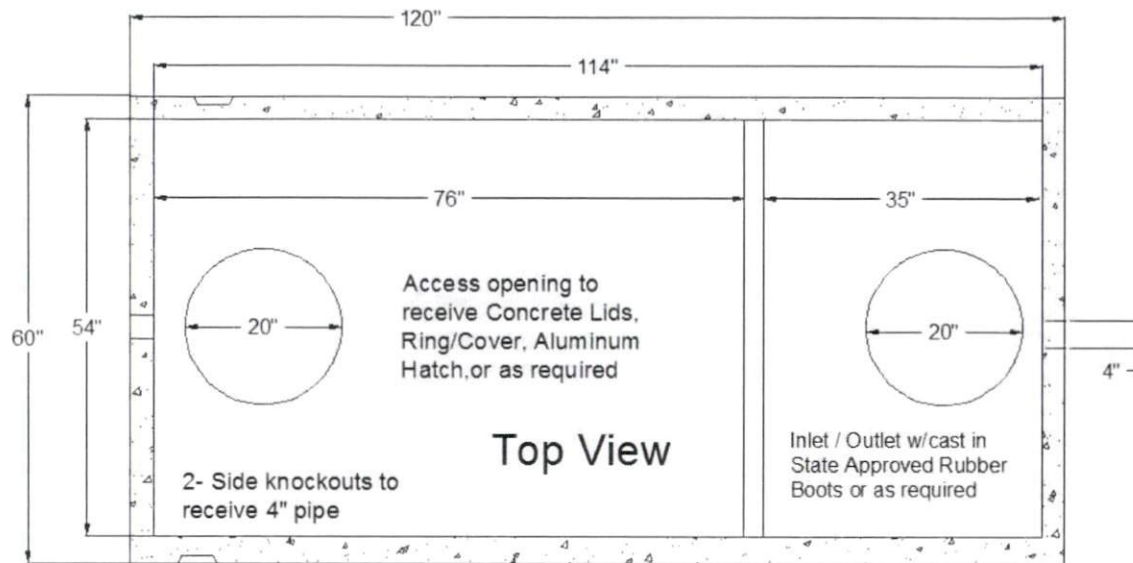


MITCHELL ENVIRONMENTAL, PA
 C-2911
 1501 LAKESTONE VILLAGE LANE
 SUITE 205
 FUQUAY VARINA, NC 27526

PREPARED FOR: Davidson Homes
 336 James Record Road
 Huntville, AL 35824
 DATE: January 12, 2022
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 SCOTT MITCHELL, PE, LSS
 DRAWN BY:
 ADAM AYCOCK, EI

REVISION NO.	DATE
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Revision 1	-----
Revision 2	-----
Revision 3	-----
Master Set	-----

SHEET NUMBER
 3 of 5
 Prince Place
 Lot 25
 Repair Nitrification Field



STB - 345 - Top Seam

Approval Date: 12 - 09 - 99

Liquid Capacity 1007 Gallons

Non Traffic Rated

Reinforcing Schedule: # 3 Grade 60 Rebar

4500 PSI Concrete w/ State Approved Structural Fiber

Est. Weight: 8,200 lbs.

Manufactured By:

GARNERS

Septic Tanks, Inc.

Eddie Garner, President

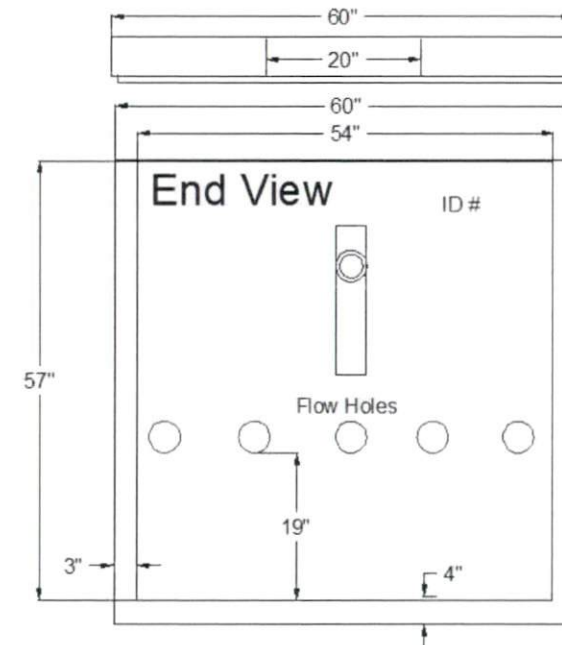
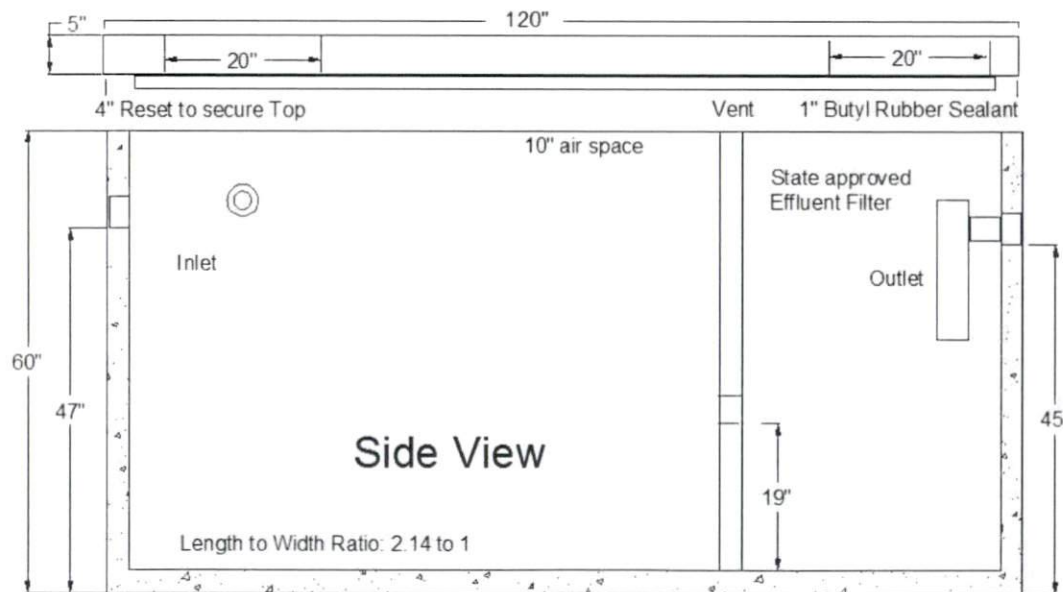
919-718-5181

121 Stanton Hill Road

Carthage, NC 28327

Fax 919-775-2229

Eddie@garnersseptictanks.com



PL-68 Filter and Tee

PL-68 is much more than just an effluent filter. The housing can also be used as an inlet baffle (tee) or an outlet baffle. The housing is designed to accept Polylok's snap in gas deflector to deflect gas bubbles away from the tee and to keep the solids in the tank.

Features:

- Offers 68 linear feet of 1/16" filter slots, which significantly extends time between cleaning.
- Accepts 3/4" PVC handle.
- Locks in any 360° position when used with PL-68 Tee.
- PL-68 Housing can be used as an inlet or outlet tee.
- Gasket prevents bypass.

PL-68 Installation:

Ideal for residential waste flows up to 800 gallons per day (GPD). Easily installs in any new or existing 4" outlet tee.

1. Locate the outlet of the septic tank.
2. Remove the tank cover and pump tank if necessary.
3. Glue the filter housing to the outlet pipe, or use a Polylok Extend & Lok if not enough pipe exists.
4. Insert the PL-68 filter into tee.
5. Replace and secure the septic tank cover.

PL-68 Maintenance:

The PL-68 Effluent Filter will operate efficiently for several years under normal conditions before requiring cleaning. It is recommended that the filter be cleaned every time the tank is pumped, or at least every three years.

1. Do not use plumbing when filter is removed.
2. Pull PL-68 out of the tee.
3. Hose off filter over the septic tank. Make sure all solids fall back into septic tank.
4. Insert filter back into tee/housing.

Related Products:

PL-68 Filter Concrete Baffle
 Extend & Lok™



Extend & Lok™
 Easily installs
 into existing tanks.



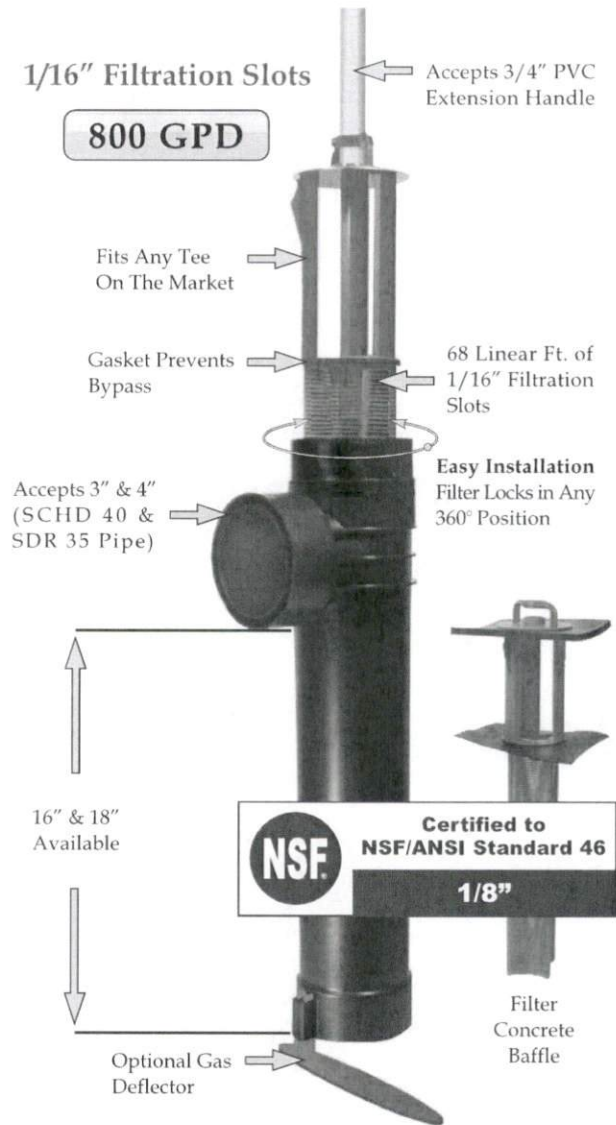
Spacer Bushing
 4" SCHD 40
 to SDR 35



Spacer Bushing
 4" SCHD 40
 to 110mm Pipe

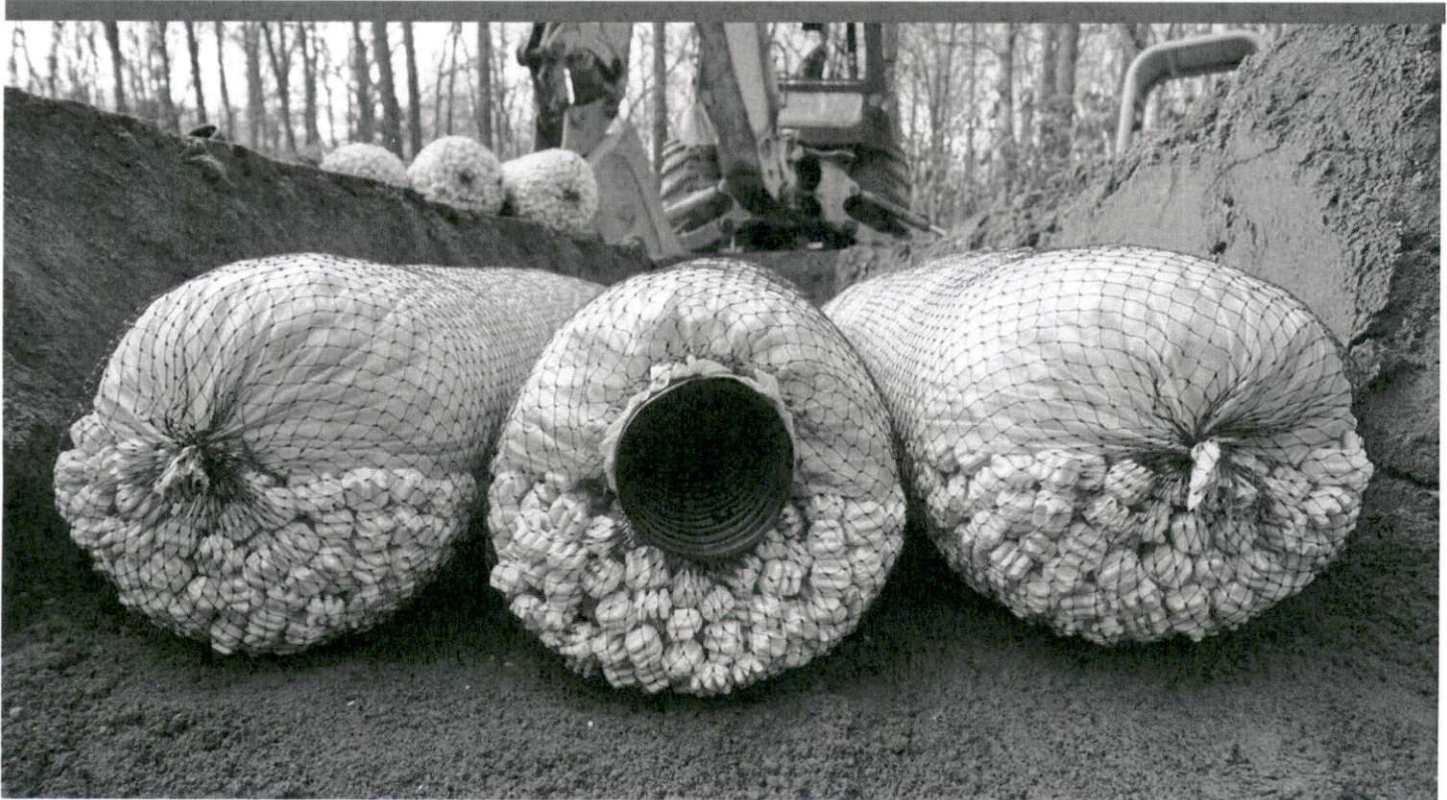


2" Extender





GEOSYNTHETIC AGGREGATE TECHNOLOGY



EZflow by Infiltrator is an environmentally friendly replacement to traditional stone and pipe drainfields using an engineered geosynthetic aggregate modular design. The EZflow system is designed to improve infiltration performance by eliminating the fines associated with crushed stone, and reducing compaction and embedment associated with stone. Preassembled units include a 3" or 4" perforated pipe surrounded by aggregate and held in place with a durable high-strength netting. This product comes in easy-to-contour 5' and 10' lengths and in diameters of 7, 8, 9, 10, 12, 13, or 14 inches.

Lightweight expanded polystyrene

construction offers structural integrity and resists compaction. Engineered flow-channels increase void space creating improved water flow and greater storage.

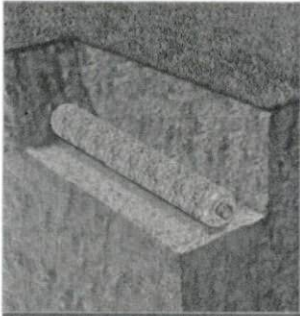


INFILTRATOR
water technologies

Compared with stone and pipe, benefits include:

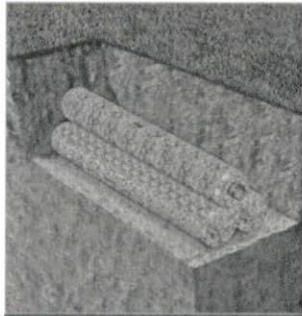
- Always clean and free of fines
- Bundles are quick to install, saving costs on heavy machinery and labor
- Modular construction allows configurations to match trench dimensions for most system shapes and sizes
- Engineered for optimal storage and absorption efficiencies
- Ability to contour along sloped sites and around trees or landscaping
- Lightweight system is perfect for repairs and tight job sites
- Easily hand-carried into position reducing time and labor
- 5' or 10' lengths with simple snap, internal couplers
- Easier cleanup at the job site with the elimination of stone
- Manufactured from recycled materials rather than a mined natural resource
- A wide variety of diameters and configurations to meet any installation professional's needs
- Approved in many jurisdictions with an increased efficiency rating, reducing drainfield size
- Backed by the leader in the onsite wastewater industry

Bundle System Configurations: Available in 7", 8", 9", 10", 12", 13" and 14" diameter bundles.



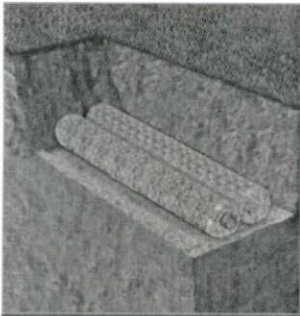
Single Bundle

0701P-GEO 1201P-GEO
0801P-GEO 1401P-GEO
1201P-GEO 1801P-GEO
1001P-GEO



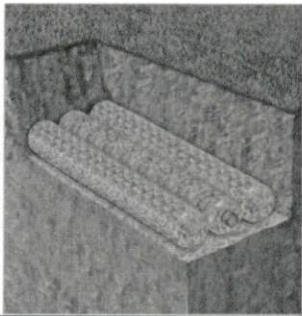
Triangular Bundle

1003T-GEO 1303T-GEO
1203T-GEO 1403T-GEO

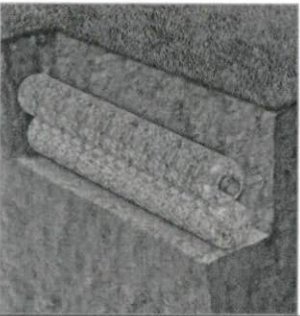


Horizontal Bundles

0705H-GEO 1303H-GEO
0904H-GEO 1202H-GEO
1002H-GEO 1203H-GEO

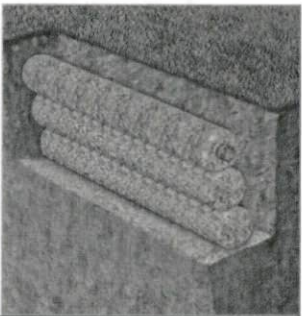


1206H-GEO 1402H-GEO
1303H-GEO 1802H-GEO



Vertical Bundles

1002V-GEO 1006V-GEO 1203V-GEO 1206V-GEO
1003V-GEO 1202V-GEO 1204V-GEO 1402V-GEO
1004V-GEO



Notes:

1. Other systems include 10" and 12" bed systems. Bed size will dictate the number of bundles.
2. System dimensions are dependent upon bundle diameter and configuration.
3. LLP is for "Low Pressure Pipe" in which a pressurized distribution pipe is field installed within the corrugated pipe.
4. Internal pipe and couplings meet the requirements of ASTM F405.
5. Bundles are also available without geotextile between the netting and synthetic aggregate.

INFILTRATOR WATER TECHNOLOGIES STANDARD LIMITED WARRANTY

(a) The structural integrity of each EZflow by Infiltrator expanded polystyrene drainfield system and other accessories manufactured by EZflow 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 period 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 EZflow by Infiltrator to be covered by this Limited Warranty. EZflow by 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 EZflow system is manufactured by anyone other than EZflow by 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.



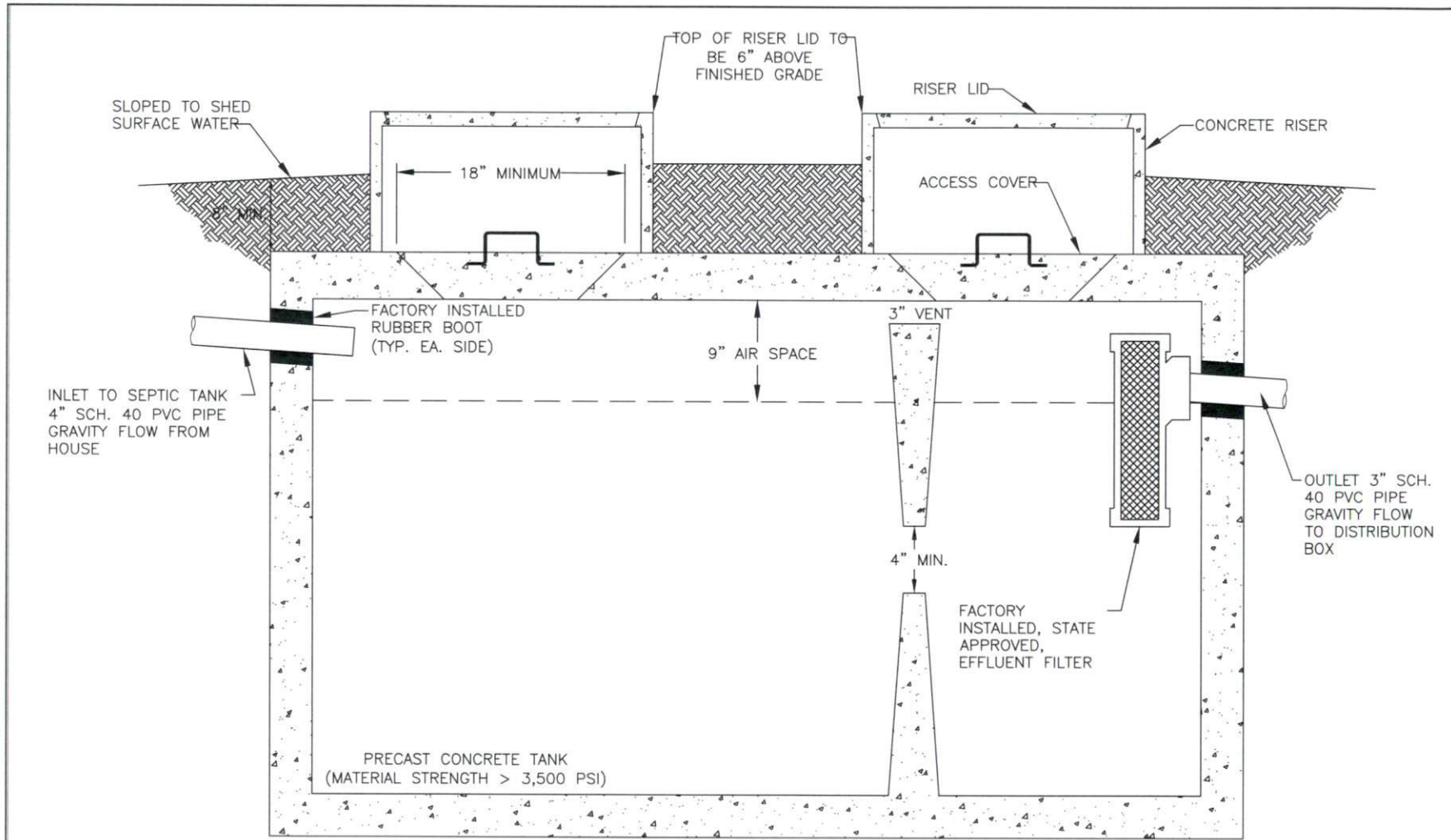
4 Business Park Road
P.O. Box 768
Old Saybrook, CT 06475
860-577-7000 • Fax 860-577-7001
1-800-221-4436
www.infiltratorwater.com

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, Equalizer, Quick4, and SideWinder are registered trademarks of Infiltrator Water Technologies. Infiltrator is a registered trademark in France. Infiltrator Water Technologies is a registered trademark in Mexico. Contour, MicroLeaching, PolyTuff, ChamberSpacer, MultiPort, PosiLock, QuickCut, QuickPlay, SnapLock and StraightLock are trademarks of Infiltrator Water Technologies. PolyLok is a trademark of PolyLok, Inc. TUF-TITE is a registered trademark of TUF-TITE, INC. Ultra-Rib is a trademark of IPEX Inc.

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EZ01 0315AG

Contact Infiltrator Water Technologies' Technical Services Department for assistance at 1-800-221-4436



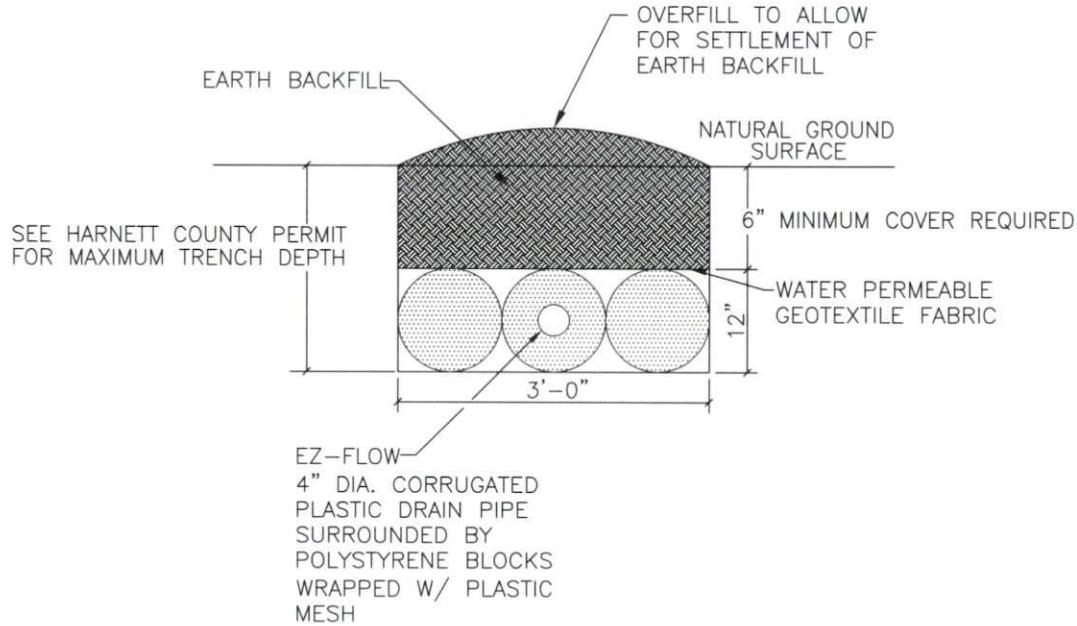
1,000 GALLON SEPTIC TANK

SEPTIC TANK DETAIL
N.T.S.

<p>REVISION NO. Original Submittal</p>		<p>DATE January 12, 2022</p>	<p>SHEET NUMBER 4 of 5</p>
<p>REVISION 1</p>			<p>Prince Place Lot 26 Septic Tank Detail</p>
<p>REVISION 2</p>			
<p>REVISION 3</p>			
<p>REVISION 4 Master Set</p>			
<p>PREPARED FOR: Dixson Homes 10000 Wood Road Huntsville, AL 35894</p>		<p>DATE: January 12, 2022</p>	
<p>ENGINEER AND SEAL SCIENTIST CONTACT: SCOTT MITCHELL, PE, LSS</p>			
<p>DRAWN BY: ADAM AYCOCK, E</p>			
<p>MITCHELL ENVIRONMENTAL, PA C-2911</p>		<p>1501 LAKESTONE VILLAGE LANE SUITE 205 FUQUAY VARINA, NC 27526</p>	

NITRIFICATION TRENCH DETAIL FOR EZ-FLOW

N.T.S.



NOTES:

1. PERFORATED CORRUGATED PLASTIC PIPE SHALL MEET REQUIREMENTS OF ASTM D 2729.
2. PIPE SHALL BE LEVEL.
3. ENDCAP SHALL BE PROVIDED AT END OF ALL CORRUGATED PLASTIC PIPE LINES.
4. TRENCH BOTTOM SHALL BE LEVEL.
5. HAND RAKE TRENCH WALLS PRIOR TO PLACEMENT OF TRENCH MEDIA IF SOIL SMEARING IS PRESENT.

MITCHELL ENVIRONMENTAL, PA C-2917	1501 LAKESTONE VILLAGE LANE SUITE 205 FUQUAY VARINA, NC 27526	DATE January 12, 2022	REVISION NO. Original Submittal Revision 1 Revision 2 Revision 3 Master Set	SHEET NUMBER 5 of 5
PREPARED FOR : Davidson Homes 2000 W. Main Street, Road Harnett, N.C. 28524 DATE : January 12, 2022 ENGINEER AND SOIL SCIENTIST CONTACT: SCOTT MITCHELL, P.E., L.S. DRAWN BY: ADAM AYCOCK, E.I.		Prince Place Lot 26 Trench Detail		