Mitchell Environmental, P.A.

SEPTIC SYSTEM DESIGN

for

MAGNOLIA ACRES SUBDIVISION-LOT 54

Fuquay-Varina, Harnett County, North Carolina

Submitted to:

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

Prepared for:

HHHunt Homes
1 Fenton Main Street
Suite 280
Cary, North Carolina 27511

Prepared by:

Adam Aycock, El

DATE: June 11, 2025 PROJECT NO.: 1823



PID: 050633 0112 76 **PIN:** 0633-04-9813.000

Account Number: 1500061907

Owner: HHHUNT LOT ACQUISTIONS LLC

Mailing Address: 11237 NUCKOLS RD GLEN ALLEN, VA 23059-5502

Physical Address: 419 MAGNOLIA ACRES LN FUQUAY-VARINA, NC 27526 ac

Description: LOT#54 MAGNOLIA ACRES S/D MAP#2023-591

Surveyed/Deeded Acreage: 0.88
Calculated Acreage: 0.86

Deed Date:

Deed Book/Page: 4223 - 0821
Plat(Survey) Book/Page: 2023 - 591

Last Sale: 2024 - 2
Sale Price: \$3349500
Qualified Code: A
Vacant or Improved: V
Transfer of Split: T
Actual Year Built:

Heated Area: SqFt

Building Count: 0

Harnett County GIS

Building Value: \$0

Parcel Outbuilding Value: \$0
Parcel Land Value: 29410
Market Value: \$29410
Deferred Value: \$0

Total Assessed Value: \$29410

Zoning: RA-30 - 0.86 acres (100.0%)

Zoning Jurisdiction: Harnett County

Wetlands: No

FEMA Flood: Minimal Flood Risk
Within 1mi of Agriculture District: Yes

Elementary School: Northwest Harnett Elementary

Middle School: Harnett Central Middle
High School: Harnett Central High
Fire Department: Northwest Harnett

EMS Department: Medic 14

Law Enforcement: Harnett County Sheriff

Voter Precinct: Northwest Harnett

County Commissioner: Duncan Edward Jaggers

School Board Member: John Hairr



PRESSURE MANIFOLD DESIGN

 Name:
 HHHunt Homes
 P.I.N. #:
 0633-04-9813
 D #:
 N/A

Address: 419 Magnolia Acres Lane Subdiv: Magnolia Acres Lot#: 54

of BDR: 4 Daily Flow: 480 gal/day L.T.A.R.: 0.300 gal/day/sq.ft

Septic Tank: 1000 gals (min.) Pump Tank: 1000 gals (min.) Sq. Foot: 1230 Stone Depth: N/A

Number of Taps: Length of Trenches: Varies ft(See Tap Chart for Details)

Depth of Trenches: see Harnett County permit Manifold Length: 48 in

Manifold Diameter: 4 in sch 80pvc (minimum) Tap Configuration: 6 in spacing 1 side(s) of manifold

Supply Line: length: 205 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 5.98 ft(supply line length + 70' for fittings in pump tank)

Design Head: <u>2.0</u> ft Elevation Head: <u>10.74</u> ft

Vent Hole Size: 3/16 in Orifice Coefficient of Discharge: 0.60

Orifice Coefficient of Contraction: 0.62 Orifice Coefficient of Velocity: 0.97

Maximum Head Supplied by Selected Pump(s) at Total Design Flowrate: 30 ft

Orifice / Vent Hole Flowrate: 2.27 gpm Head Loss at Orifice / Vent Hole: 1.90 ft

Total Head: 20.62 ft Pump to Deliver: 32.93 gals/min at 20.62 ft head

Dosing Volume: 175.89 gals.

Drawdown: 175.89 gals divided by gals/in = 9.77 inches

SJE Rhombus Installer Friendly Series simplex control panel, or equivalent, required

A septic tank filter, or equal is required.

Possible pumps: Hydromatic: Goulds: Myers:

Zoeller: 153 Other:

TAP CHART

IAI VIIAKI											
Bench Mark	12.40	is = 100.00	set at	E	G at 54/55 back cor	ner	Design Head:	2.0			
Pump tank elev.		13	99.40	Pump elev.	94.40		Manifold elev.	105.14			
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR		
2a & 3a	W & O	8.31	104.09	70	1/2in SCH 80	5.48	85.79	210	0.4085		
4a	Blue	8.26	104.14	70	1/2in SCH 80	5.48	85.79	210	0.4085		
5a	Yellow	9.26	103.14	70	1/2in SCH 80	5.48	85.79	210	0.4085		
6a	Red	11.24	101.16	100	1/2in SCH 40	7.11	111.31	300	0.3710		
7	Purple	12.36	100.04	100	1/2in SCH 40	7.11	111.31	300	0.3710		
		total	feet =	410	gal/min =	30.7		LTAR =	0.3000		
% of Pipe Vol.		66		Des. Flow	480.00			(Itar + 5%)	0.3150		
Dose Volume		175.89		Pump Run=	15.66			(Itar W/ Innov.)	0.4000		
Dose Pump Time		5.74		Tank Gal/IN	nk Gal/IN 18			(Itar + 5%)	0.4200		
Drawdown in Inches		9.77		Elev. Head	10.74						
Supply Line Leng	th	205									
Comments:											

PRESSURE MANIFOLD DESIGN

 Name:
 HHHunt Homes
 P.I.N. #:
 0633-04-9813
 D #: N/A

Address: 419 Magnolia Acres Lane Subdiv: Magnolia Acres Lot#: 54

of BDR: 4 Daily Flow: 480 gal/day L.T.A.R.: 0.300 gal/day/sq.ft

Septic Tank: 1000 gals (min.) Pump Tank: 1000 gals (min.) Sq. Foot: 810 Stone Depth: N/A

Number of Taps: 6 Length of Trenches: 45 ft(See Tap Chart for Details) Panel Block)

Depth of Trenches: see Harnett County permit Manifold Length: 54 in

Manifold Diameter: 4 in sch 80pvc (minimum) Tap Configuration: 6 in spacing 1 side(s) of manifold

Supply Line: length: 130 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 4.95 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2.0 ft Elevation Head: 15.18 ft

Vent Hole Size: 3/16 in Orifice Coefficient of Discharge: 0.60

Orifice Coefficient of Contraction: 0.62 Orifice Coefficient of Velocity: 0.97

Maximum Head Supplied by Selected Pump(s) at Total Design Flowrate: 28 ft

Orifice / Vent Hole Flowrate: 2.19 gpm Head Loss at Orifice / Vent Hole: 1.78 ft

Total Head: 23.91 ft Pump to Deliver: 35.07 gals/min at 23.91 ft head

Dosing Volume: 254.48 gals.

Drawdown: 254.48 gals divided by $\frac{18}{9}$ gals/in = $\frac{14.14}{9}$ inches

SJE Rhombus Installer Friendly Series simplex control panel, or equivalent, required

A septic tank filter, or equal is required.

Possible pumps: Hydromatic: Goulds: Myers:

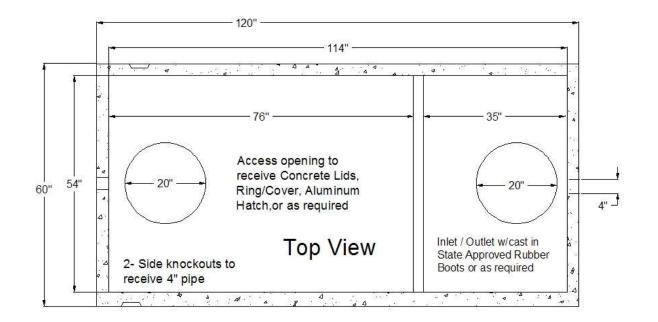
Zoeller: 153 Other:

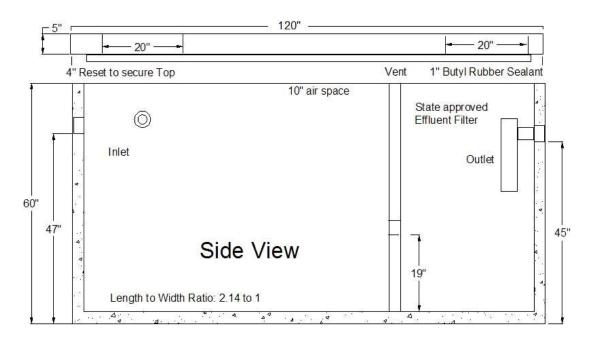
TAP CHART

Bench Mark	12.40	is = 100.00	set at	EG at 54/55 back corner		Design Head:	2.0		
Pump tank elev.		13	99.40	Pump elev.	94.40		Manifold elev.	109.58	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	nf	3.82	108.58	45	1/2in SCH 80	5.48	80.00	135	0.5926
2b	White	5.05	107.35	45	1/2in SCH 80	5.48	80.00	135	0.5926
3b	Orange	6.46	105.94	45	1/2in SCH 80	5.48	80.00	135	0.5926
4b	Blue	7.69	104.71	45	1/2in SCH 80	5.48	80.00	135	0.5926
5b	Yellow	8.97	103.43	45	1/2in SCH 80	5.48	80.00	135	0.5926
6b	Red	11.20	101.20	45	1/2in SCH 80	5.48	80.00	135	0.5926
		total	feet =	270	gal/min =	32.9		LTAR =	0.3000
% of Pipe Vol.		145		Des. Flow	480.00			(Itar + 5%)	0.3150
Dose Volume		254.48		Pump Run=	14.60			(Itar W/ HPB)	0.6000
Dose Pump Time		7.74		Tank Gal/IN	18			(Itar + 5%)	0.6300
Drawdown in Inches		14.14		Elev. Head	15.18				

Supply Line Length 130

Comments: All Lines require 10 panels, totaling 60 panels for the system.





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:

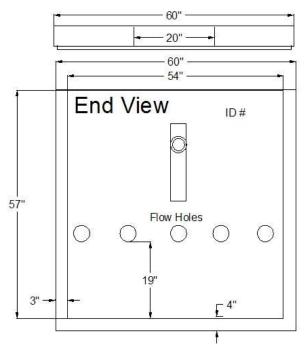


Eddie Garner, President 919-718-5181

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.

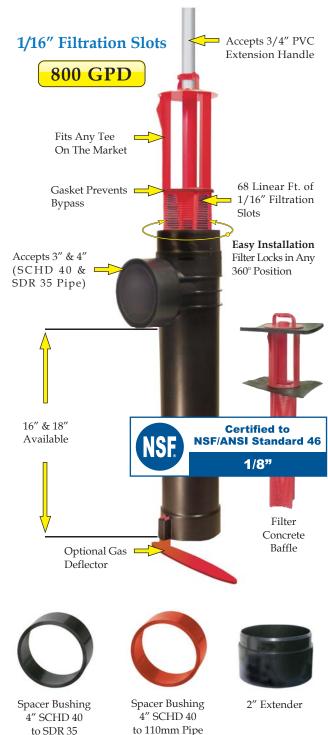
- 1. Do not use plumbing when filter is removed.
- 2. Pull PL-68 out of the tee.
- 3. Hose off filter over the septic tank. Make sure all solids fall back into septic tank.
- 4. Insert filter back into tee/housing.

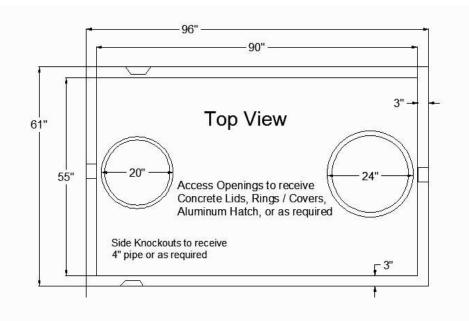
Related Products:

PL-68 Filter Concrete Baffle Extend & Lok $^{\text{TM}}$



Extend & LokTM
Easily installs
into existing tanks.





PT - 214

Date: 12-16-93 Non Traffic Rated

Liquid Capacity 1,028 Gallons

18 gals. per inch

Reinforcing Schedule: # 3 Grade 60 Rebar 4500 PSI Concrete w/ State Approved Structural Fiber

2 yds. Est Weight 8200 lbs

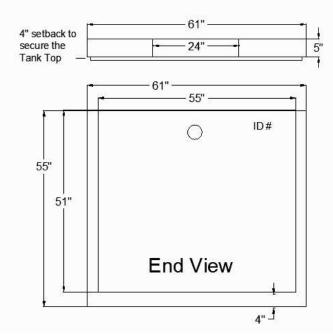
Manufactured By:

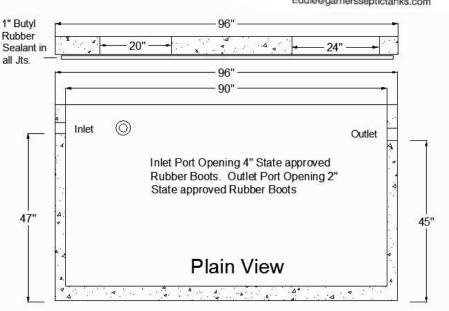


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121 Stanton Hill Road Carthage, NC 28327

ge, NC 28327 Fax 919-775-2229 Eddie@garnersseptictanks.com





INSTALLER FRIENDLY SERIES® - IFS Single Phase Simplex (Demand/TD)

Single phase, simplex demand dose or timed dose, float controlled system for pump control and system monitoring.

The IFS simplex control panel is designed to control one 120, 208, 240 VAC single phase pump in water and sewage installations.

The IFS control panel features an easy-to-use touch pad with display on the inner door for programming and system monitoring.

The panel configuration can be easily converted in the field to either a timed dose or demand dose.

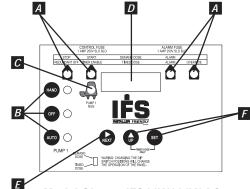
TOUCH PAD FEATURES

- A. Float Indicators illuminate when floats are activated. Alarm will activate if a float operates out of sequence.
- B. HOA (Hand-Off-Automatic) Buttons control pump mode with indication. Hand mode defaults to Automatic when stop level or redundant off level is reached.
- C. Pump Run Indicator illuminates when pump is called to run.
- D. LED Display shows system information including: mode, pump elapsed time (hh:mm), events (cycles), alarm counter, float error count, timed dose override counter (timed dose only), and ON/OFF times (timed dose only).
- E. NEXT Push Button toggles display.
- F. UP and SET Push Buttons set pump ON/OFF times (timed dose only).

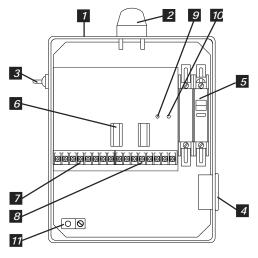
PANEL COMPONENTS

- Enclosure base measures 10 X 8 X 4 inches (25.4 X 20.32 X 10.16 cm). NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use). Note: Options, voltage, and amp range selected may change enclosure size and component layout.
- 2. Red Alarm Beacon provides 360° visual check of alarm condition.
- Exterior Alarm Test/Normal/Silence Switch allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition is cleared.
- **4. Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).
- Circuit Breaker (optional) provides pump disconnect and branch circuit protection.
- **6. Power Relay** controls pump by switching electrical lines. Definate purpose contactor used when pump full load amps are above 15.
- 7. Float Connection Terminal Block
- 8. Incoming Control/Alarm Power & Pump Terminal Block
- 9. Control Power Indicator/Fuse indicator light illuminates if control power is present in panel. Alarm will activate if control fuse is blown.
- Alarm Power Indicator/Fuse indicator light illuminates if alarm power is present in panel.
- 11. Ground Lug

NOTE: Schematic/Wiring Diagram and Pump Specification Label are located inside the panel on enclosure cover



Model Shown IFS11W114X8AC (Inner door view)



Model Shown IFS11W114X8AC (Inside view)

Reg. Cdn Pat. & TM Off

FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes:

 Demand Dose three 20' SJE

 MilliAmpMaster™ control switches

 Timed Dose two 20' SJE

 MilliAmpMaster™ control switches
- Complete with step-by-step installation instructions
- Three-year limited warranty LISTED





PO Box 1708, Detroit Lakes, MN 56502 1-888-DIAL-SJE • 1-218-847-1317 1-218-847-4617 Fax

email: sje@sjerhombus.com **www.sjerhombus.com**

IFS 2 1 W Note Note 4 H 8AC, 10E, 10F 15A
MODEL IFS
MODELTYPE ——
1 = SPLX TIMED DOSE (includes option 8AC standard) 2 = SPLX DEMAND DOSE (includes option 8AC standard)
ALARM PACKAGE
ENCLOSURERATING ————————————————————————————————————
W = NEMA4X
STARTING DEVICE ————————————————————————————————————
1 = 120/208/240 VAC
9 = 120 VAC
PUMP FULL LOAD AMPS —
0 = 0-7 FLA
1 = 7-15 FLA 2 = 15-20 FLA
PUMP DISCONNECTS —
0 = no pump disconnect
X 4 = circuit breaker
120 VAC (must select starting device option 9)
120/208/240 VAC (must select starting device option 1)
SWITCH APPLICATIONS —
H = floats (Timed dose = low level and alarm / Demand dose = stop, start, and alarm) (select 17 option) X = no float
timed dose
demand Dose
Note: Pump down applications only.
OPTIONS Listed below —
Note: Starting device, pump full load amps, cord length, and float type to be selected

<u>Note:</u> Starting device, pump full load amps, cord length, and float type to be selected by installer and their electrician upon selection of pump.

If additional features are required, call the factory for a quote on an Engineered Custom control panel.

	CODE DESCRIPTION		DESCRIPTION
\vdash	1 J Duo alarm inputs		NEMA 4X remote alarm panel
	3A Alarm flasher	[TE]	(must select option 6A)
	3B Manual reset alarm		Control / Alarm circuit breaker
	4A Redundant off (select option 4D if floats are required)		10' cord in lieu of 20' (per float)
	Demand Dose	16B	15' cord in lieu of 20' (per float)
_	Timed Dose	16C	30' cord in lieu of 20' (per float)
	4D Redundant off float	16D	40' cord in lieu of 20' (per float)
	6A Auxiliary alarm contacts, form C	17C	Sensor Float [®] / internally weighted ▲ (per float)
V	8AC Display board includes: ETM counter, events (cycles)	17D	Sensor Float [®] / externally weighted ▲ (per float)
	counter, alarm counter, and override counter (timed dose	17G	MilliAmpMaster™/ pipe clamp ● (per float)
	only). (Included as standard.)	17H	MilliAmpMaster™/ externally weighted ● (per float)
\mathbf{X}	10E Lockable latch - NEMA 4X	17J	Sensor Float [®] / pipe clamp ▲ (per float)
\mathbf{X}	10F Lightning arrestor (must select pump circuit breaker,	18A	Timer override option with float (timed dose only)
	control and alarm power combined)		
	10K Anti-condensation heater		■ Mechanically-activated
	11C NEMA 1 remote alarm panel		
	(must select option 6A)		
	,		
SZ	AMPLE		
0,			
	MODEL IFS 1 1 W 9 1	4	8 <i>AC</i> 10E17 <i>G</i>
	Model Type — T	\top	·
	Alarm Package —		
	Enclosure Rating————		
	Starting Device —		
	Pump Piggennests		
	Pump Disconnects — Switch Application — Switch Appl		
	Oniton Application		

Options: Display, Lockable Latch,-SJE MilliAmpMaster™/pipe clamp Productinformation presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



SECTION: 2.15.080 FM2784 1017 Supersedes 0315

TECHNICAL DATA SHEET

DOSE-MATE SERIES

Models 151, 152, 153 Effluent Pumps

PRODUCT SPECIFICATIONS

		SPECIFICATIONS						
	Horse Power	1/3 (151), 4/10 (152), 1/2 (153)						
æ	Voltage	115 or 230						
2	Phase	1 Ph						
2	Hertz	60 Hz						
MOTOR	RPM	3450						
PUMP MG	Туре	Permanent split capacitor						
	Insulation	Class B						
	Amps	3.0 - 10.5						
	Operation	Automatic or nonautomatic						
	Discharge Size	1-1/2" NPT						
	Solids Handling	1/2" (12 mm), 3/4" (19 mm) spherical solids						
	Cord Length	20' (6 m)						
	CordType	UL listed power cord						
	Max. Head	44' (13.4 m)						
	Max. Flow Rate	77 GPM (291 LPM)						
	Max. Operating Temp.	130 °F (54 °C)						
	Cooling	Oil filled						
	Motor Protection	Auto reset thermal overload						
	Сар	Cast iron						
	Motor Housing	Cast iron						
	Pump Housing	Cast iron						
S	Base	Plastic or cast iron						
٩L	Upper Bearing	Sleeve bearing						
R)	Lower Bearing	Ball bearing						
MATERIALS	Mechanical Seals	Carbon and ceramic						
	ImpellerType	Non-clogging vortex						
	Impeller	Engineered thermoplastic						
	Hardware	Stainless steel						
	Motor Shaft	AISI 1215 steel						
	Gasket	Neoprene						

NOTE: The sizing of effluent systems normally requires variable level float(s) controls and properly sized basins to achieve required pumping cycles or dosing timers with nonautomatic pumps.

NOTE: See model comparison chart for specific details.

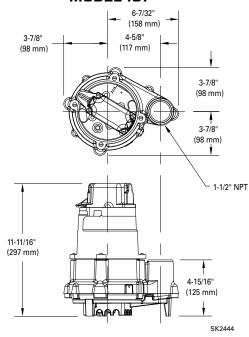
C US US Tested to UL Standard UL778 and Certified to CSA Standard CSA22.2 No. 108



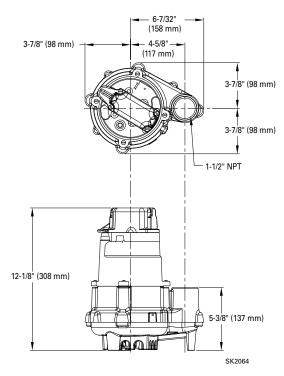




MODEL 151

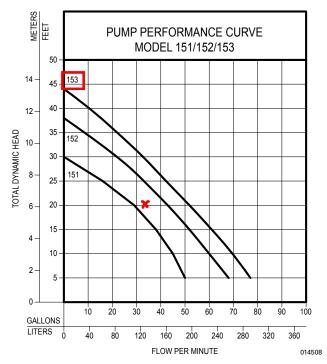


MODELS 152 & 153



TOTAL DYNAMIC HEAD FLOW PER MINUTE

MOI	DEL	15	51	15	52	15	53	
Feet	Meters	Gal.	Liters	Gal.	Liters	Gal.	Liters	
5	1.5	50	189	69	261	77	291	
10	3.0	45	170	61	231	70	265	
15	4.6	38	144	53	201	61	231	
20	6.1	29	110	44	167	52	197	
25	7.6	16	61	34	129	42	159	
30	9.1			23	87	33	125	
35	10.7					22	85	
40	12.2					11	42	
Shut-of	f Head:	30 ft. (9.1m)	38 ft. (1	I1.6m)	44 ft. (13.4m)		



Model	MODEL COMPARISON											
	Seal	Mode	Volts	Ph	Amps	HP	Hz	Lbs	Kg	Simplex	Duplex	
N151	Single	Non	115	1	6.0	1/3	60	32	15	1	2 or 3	
E151	Single	Non	230	1	3.0	1/3	60	32	15	1	2 or 3	
BN151	Single	Auto	115	1	6.0	1/3	60	33	15	*	2 or 3	
BE151	Single	Auto	230	1	3.0	1/3	60	33	15	*	2 or 3	
N152	Single	Non	115	1	8.5	4/10	60	37	17	1	2 or 3	
E152	Single	Non	230	1	4.3	4/10	60	37	17	1	2 or 3	
BN152	Single	Auto	115	1	8.5	4/10	60	39	18	*	2 or 3	
BE152	Single	Non	230	1	4.3	4/10	60	39	18	*	2 or 3	
N153	Single	Non	115	1	10.5	1/2	60	37	17			
BN153	Single	Auto	115	1	10.5	1/2	60	39	18	*	2 or 3	
E153	Single	Non	230	1	5.3	1/2	60	37	17	1	2 or 3	
BE153	Single	Non	230	1	5.3	1/2	60	39	18	*	2 or 3	

^{*}BN and BE models include a 20' (6 m) piggyback variable level pump switch. Additional cord lengths are available in 25' (8 m) and 35' (11 m). 50' (15 m) cords are available for 230 V units only.

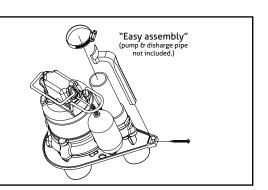
NOTE: Model 151 has a plastic base. Models 152 & 153 have a cast iron base.

SELECTION GUIDE

- For automatic, use single piggyback variable level float switch or double piggyback variable level float switch. Refer to FM0477.
- 2. See FM1228 for correct model of simplex control panel.
- 3. See FM0712 for correct model of duplex control panel.

OPTIONAL PUMP STAND P/N 10-2421

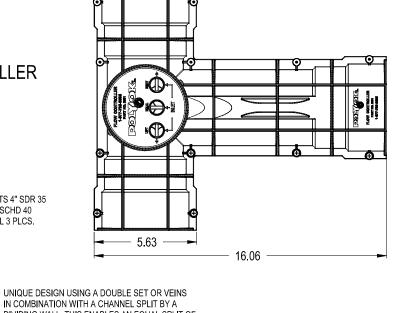
- Reduces potential clogging by debris
- Replaces rocks or bricks under the pump
- Made of durable, noncorrosive ABS
- Raises pump 2" (5 cm) off bottom of basin
- Provides the ability to raise intake by adding sections of 1½" or 2" (DN40 or DN50) PVC piping
- Attaches securely to pump
- Accommodates sump, dewatering and effluent applications NOTE: Make sure float is free from obstruction.

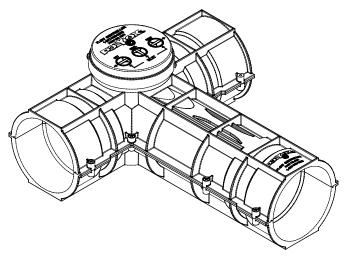


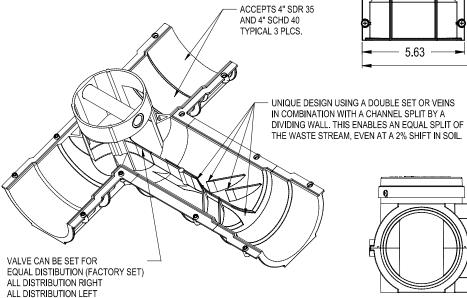
▲ CAUTION

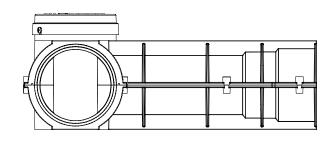
All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).

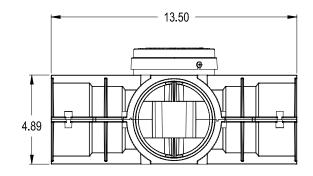














GEOSYNTHETIC AGGREGATE TECHNOLOGY



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.





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.

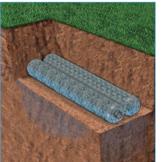
Single Bundle

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



1402H-GEO

1802H-GEO

1206H-GEO 1303H-GEO



Vertical Bundles

1002V-GEO 1006V-GEO 1003V-GEO 1202V-GEO 1004V-GEO



1203V-GEO 1206V-GEO 1204V-GEO 1402V-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
- 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 aggregrate.

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

(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.

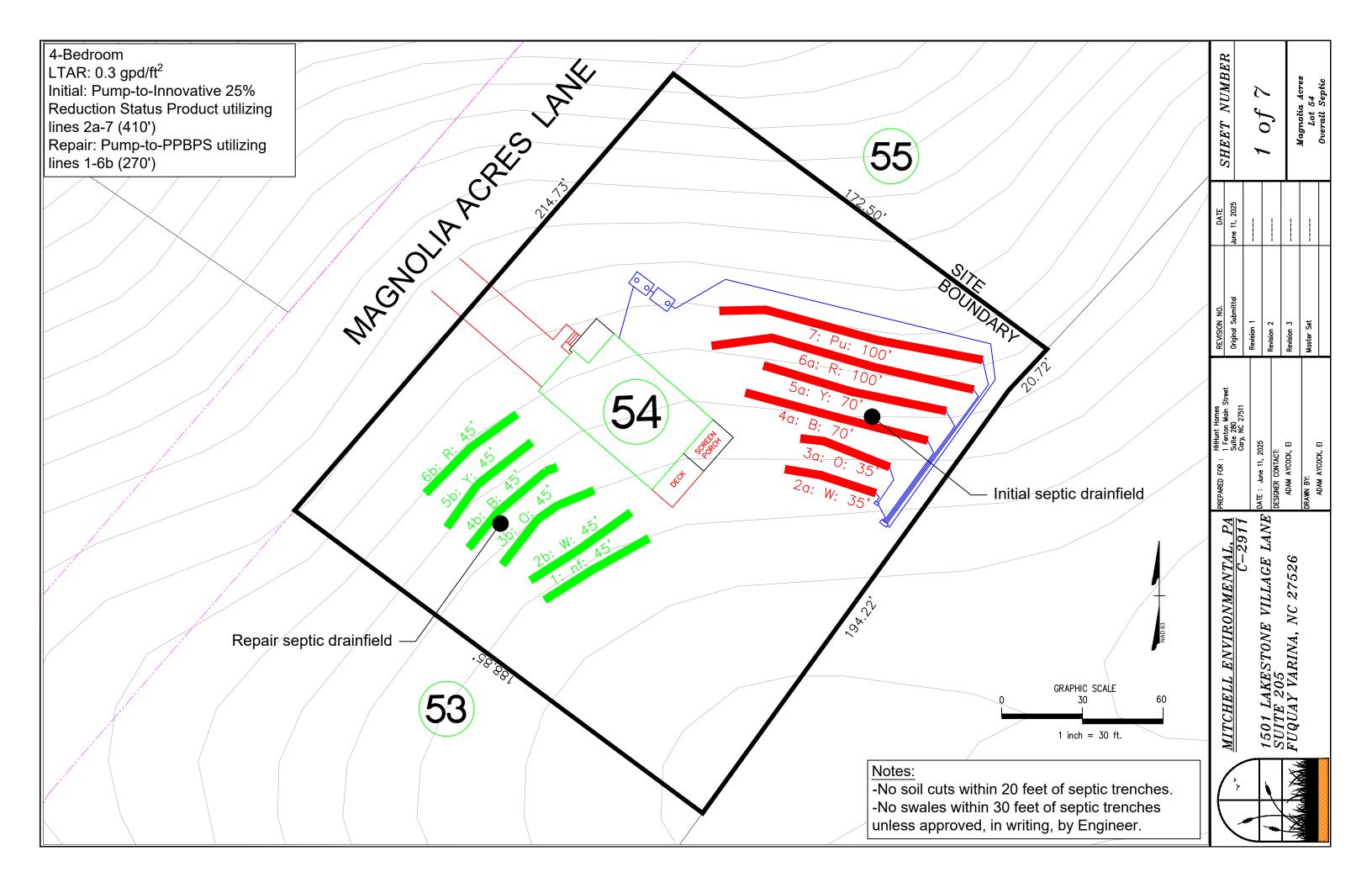
The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of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

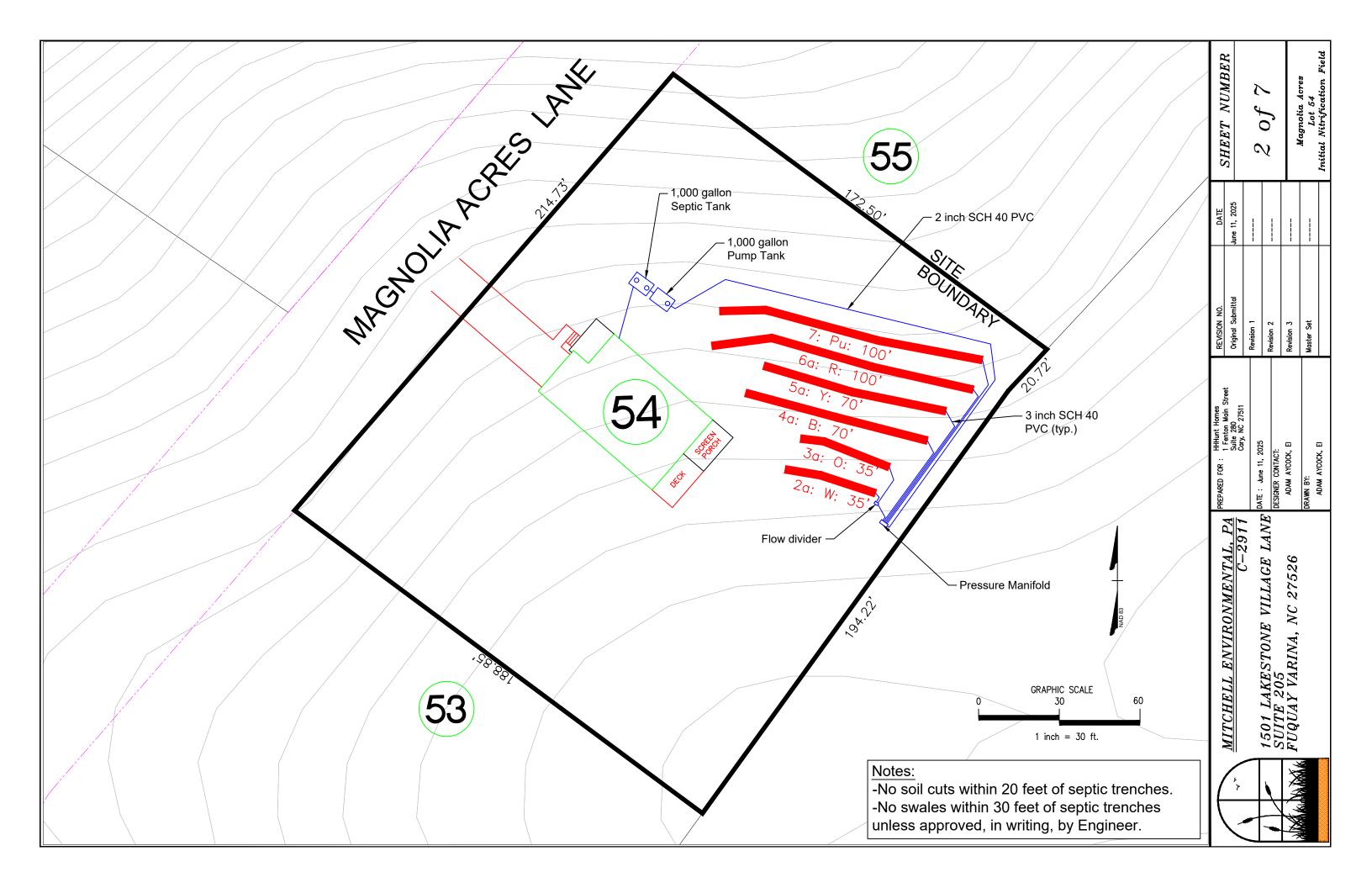


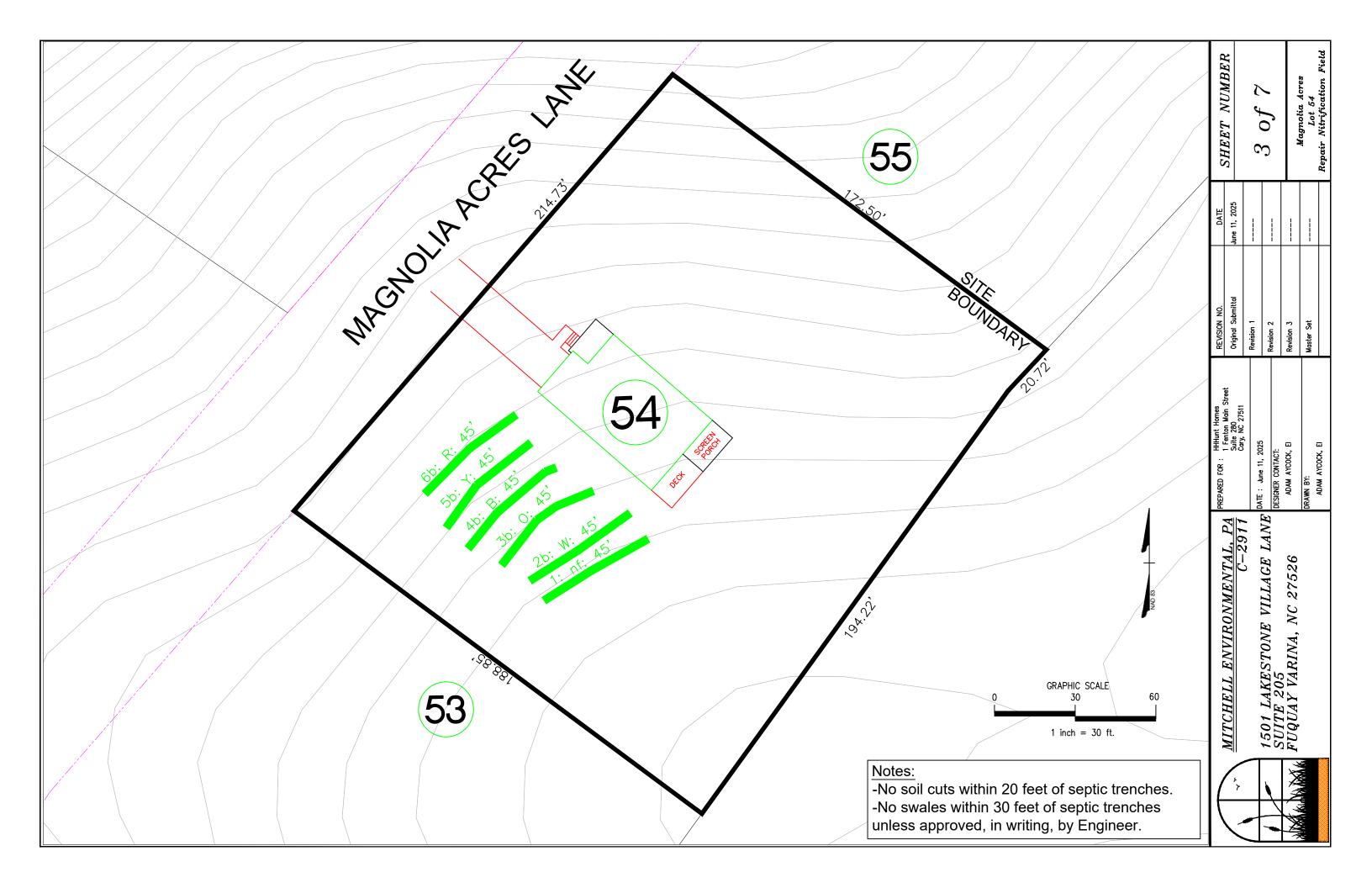
4 Business Park Road P.O. Box 768 Old Saybrook, CT 06475 860-577-7000 • Fax 860-577-7001 1-800-221-4436

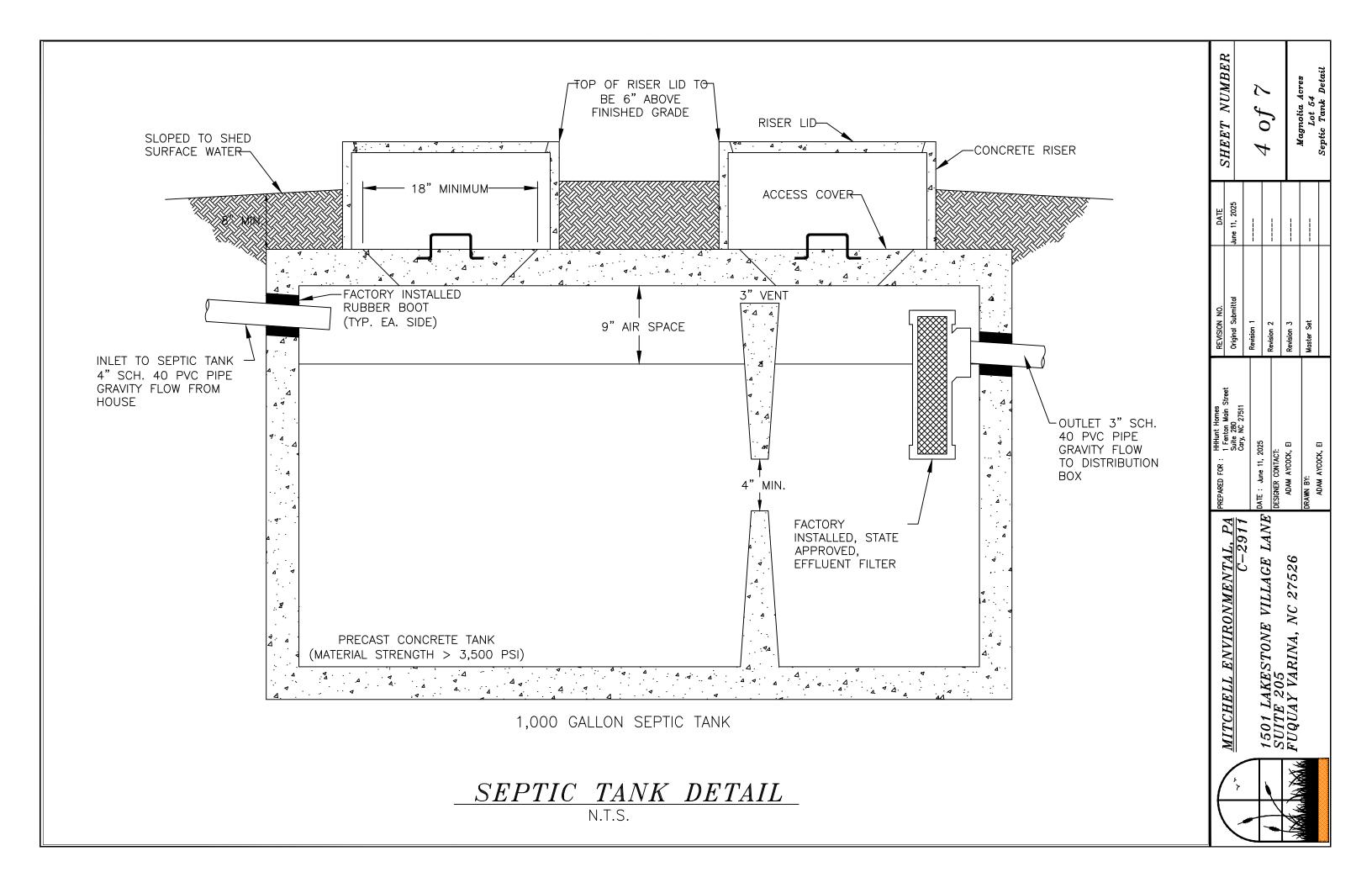
www.infiltratorwater.com

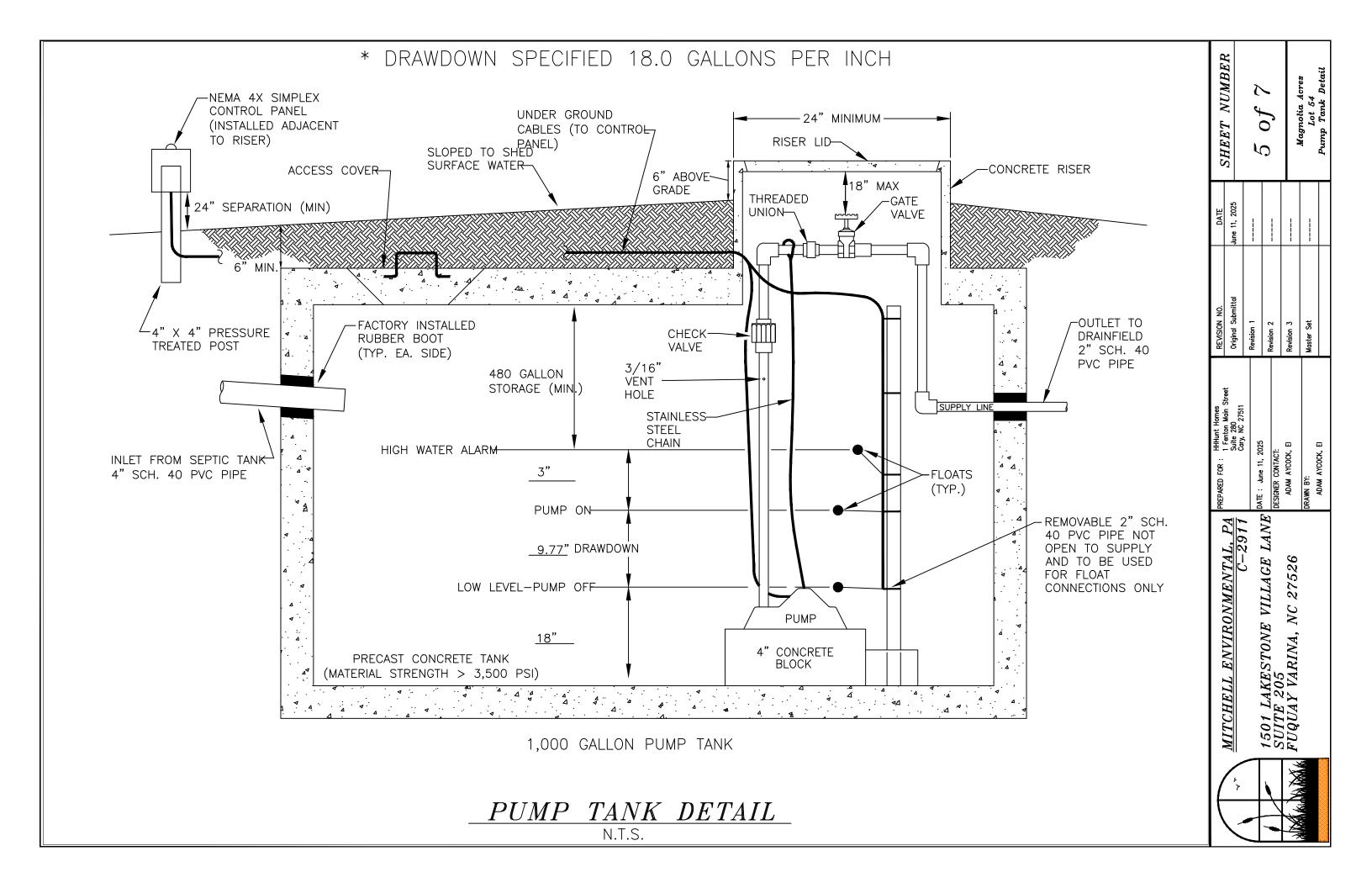
U.S. Patents: 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,116; 5,401,459; 5,511,903; 5,716,163; 5,588,778; 5,839,844 Canadian Patents: 1,329,959; 2,004,564 Other patents pending. Infiltrator, Equalizer, Quick4, and SideWinder are registered trademarks of Infiltrator Water Technologies. Infiltrator 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.











PRESSURE MANIFOLD DETAIL FOR MAGNOLIA ACRES LOT 54 INITIAL SEPTIC SYSTEM N.T.S.

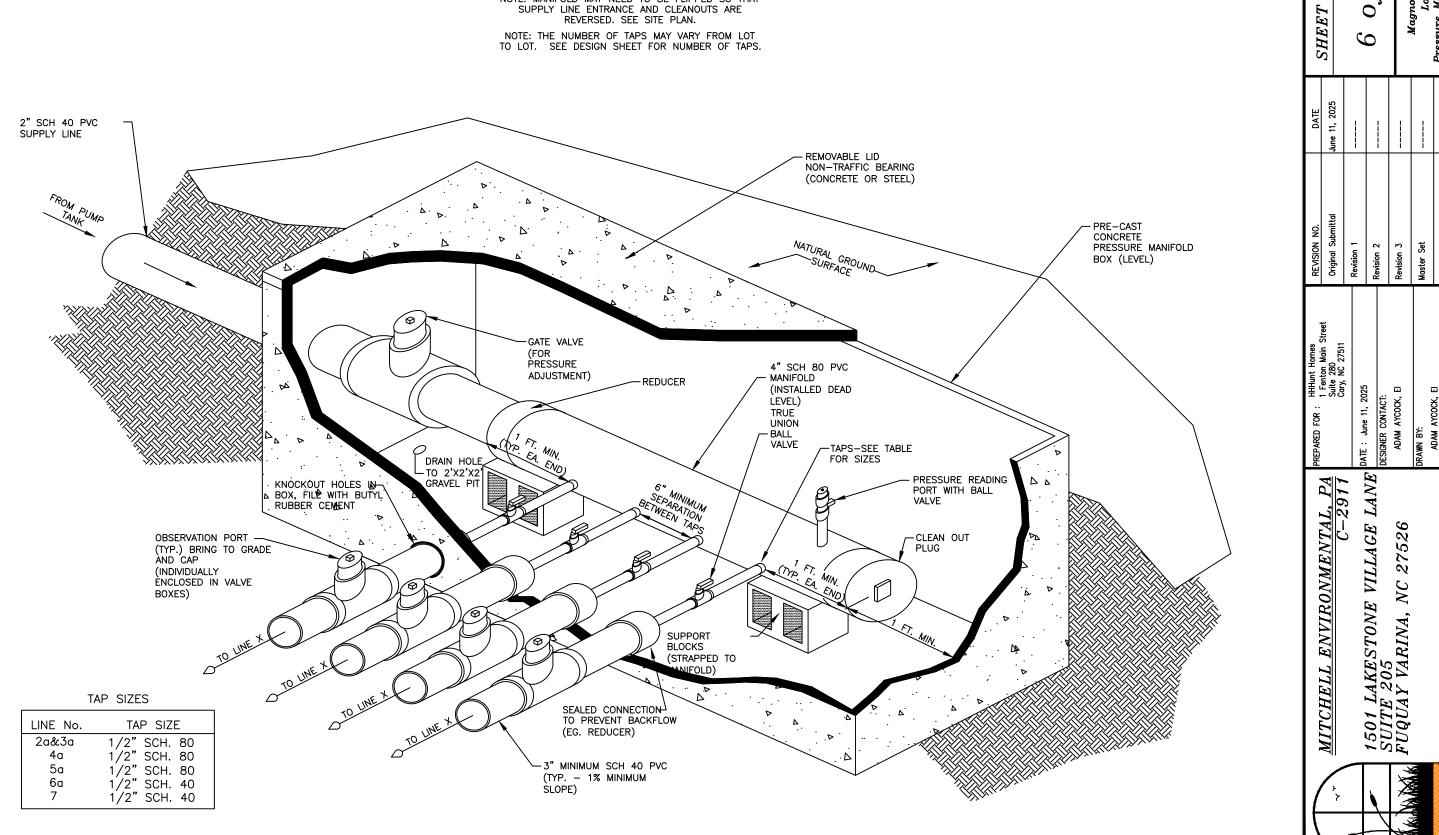
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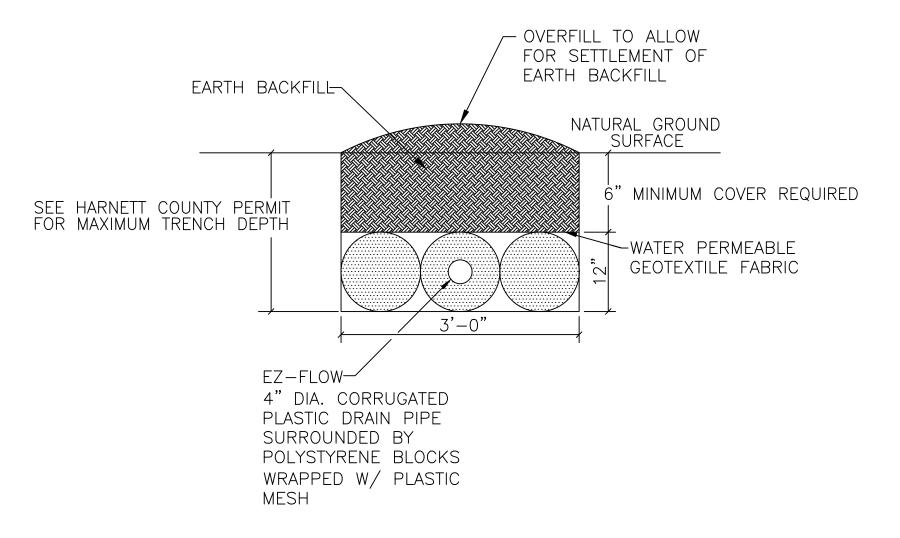
NOTE: MANIFOLD MAY NEED TO BE FLIPPED SO THAT SUPPLY LINE ENTRANCE AND CLEANOUTS ARE REVERSED. SEE SITE PLAN.

NOTE: THE NUMBER OF TAPS MAY VARY FROM LOT TO LOT. SEE DESIGN SHEET FOR NUMBER OF TAPS.



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.

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DATE	June 11, 2025								
REVISION NO.	Original Submittal		Revision 1	Position 2	Z IIOGNISION Z		Revision 3	Master Set	
PREPARED FOR: HHHunt Homes I Fenton Main Street Suite 280 Cary, NC 27511		Cary, NC 27511	1 2025 The annut 1 3025		DESIGNER CONTACT:	1000000	ADAM ATCUCK, EI	DRAWN BY:	ADAM ATCUCK, EI
١	MITCHELL ENVIRONMENTAL, PA	C-2911		1501 LAKESTONE VILLAGE LANE	CHITTE 205		FUQUAY VARINA, NC 27526		
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