Harnett County Department of Public Health

Improvement Permit

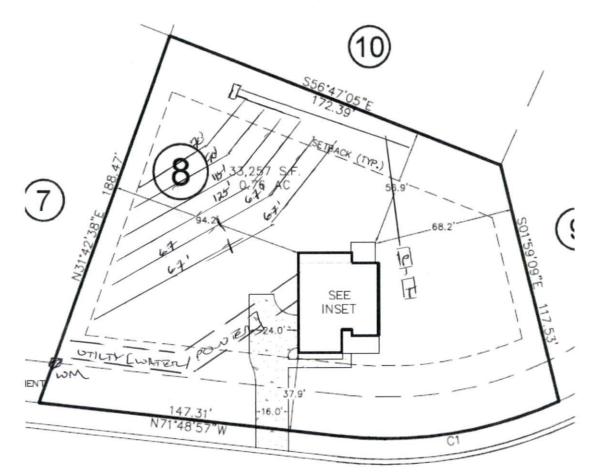
A building permit cannot be issued with only an Improvement Permit PROPERTY LOCATION: 227 Prince Plance Dr. (Christian Lt. Rd. SF ISSUED TO: Davidson Homes, LLC SUBDIVISION Prince Place EXPANSION NEW X Site Improvements required prior to Construction Authorization Issuance: Type of Structure: 49x53 sfd, beds 3 baths Proposed Wastewater System Type: 25% Reduction Svs., Projected Daily Flow: 366480 GPD Number of Occupants: 68 Number of bedrooms: 300 4 Basement Yes No May be required based on final location and elevations of facilities Pump Required: XYes X Five years Public Well Distance from well NA Type of Water Supply: Community Permit valid for: No expiration Permit conditions: Date: SEE ATTACHED SITE SKETCH Authorized State Agent:: 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: 227 Prince Plance Dr. (Christian Lt. Rd. SUBDIVISION Prince Place Facility Type: 49x53 sfd, beds 3 baths Expansion × New Basement Fixtures? Yes (Initial) Wastewater Flow: 360 Type of Wastewater System** Pump to 25% Reduction System (See note below, if applicable) 50% Reduction PPBPS Sys. Number of trenches 4 Installation Requirements/Conditions Septic Tank Size 1000 Exact length of each trench Multi Trench Spacing: 9 gallons Feet on Center Pump Tank Size 1200 Trenches shall be installed on contour at a Soil Cover: 6 (min) gallons Maximum Trench Depth of: 24 (Maximum soil cover shall not exceed (Trench bottoms shall be level to +/-1/4" 36" above the trench bottom) in all directions) ft. TDH vs. NA inches below pipe Pump Requirements: Aggregate Depth: NA inches above pipe Conditions: Septic Proposal by Mitchell Environmental; Pressure Manifold 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: 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 SEE ATTACHED SITE SKETCH 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 10/28/2021 Authorized State Agent: Construction Authorization Expiration Date: 10/28/2026 ANDREW CURTIN

Harnett County Department of Public Health Site Sketch

Property Location: 227 Prince Plance Dr. (Christian Lt. Rd. SR 1412)

Issued To: Davidson Homes, LLC Subdivision Prince Place Lot # 8

Authorized State Agent: Date: 10/28/2021



PRINCE PLACE DRIVE

* SEPTIL PLOPOSAR BY MITCHTELL ENVIRONMENTAL (ATTACHTED)

* DIME TO PLESSIFE MANIFOLD [ATTACHTED]

* 50% AZDICTON PROPS AZDAIL AND

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 8

Fuquay-Varina, Harnett County, North Carolina

Submitted to:

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

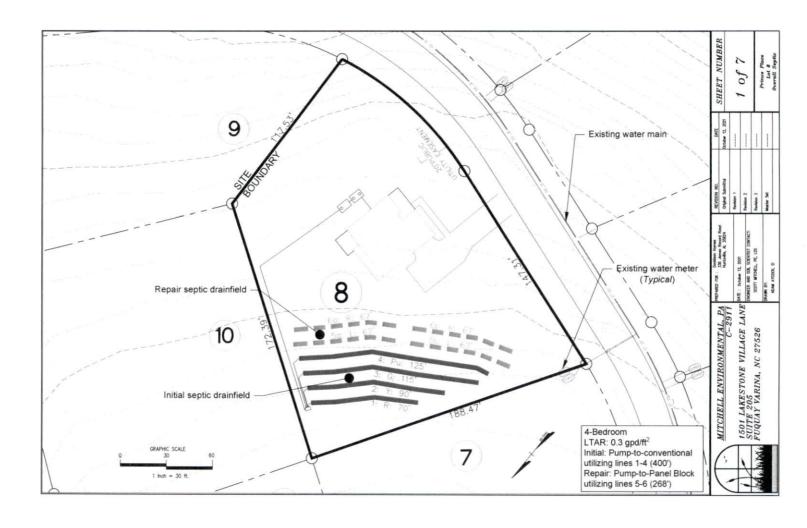
Prepared for:

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

Prepared by:

Scott Mitchell, PE, LSS Adam Aycock, El

DATE: October 12, 2021 PROJECT NO.: 4321



Initial System

PRESSURE MANIFOLD DESIGN

Name: Davidson Homes

P.I.N. #: 0633-76-6508

D#: N/A

Address: Prince Place Drive

Subdiv: Prince Place

Lot#: 8

of BDR: 4 Daily Flow:

gal/day

L.T.A.R.: 0.300 gal/day/sq.ft

1200

Stone Depth: N/A

Septic Tank: 1000 gals (min.)

Pump Tank: 1200 gals (min.)

(EZ Flow)

Number of Taps:

5

Length of Trenches:

480

5.94

Varies

ft(See Tap Chart for Details)

Depth of Trenches: see Harnett County Permit

Manifold Length:

48 in

Sq. Foot:

Manifold Diameter: 4 in sch 80pvc (minimum) Tap Configuration: 6 in spacing

1

side(s) of manifold

Supply Line: length: 160

ft

Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss:

ft(supply line length + 70' for fittings in pump tank)

11.23 ft

Design Head:

2.0

Elevation Head:

Vent Hole Size:

3/16 in

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

Orifice Coefficient of Discharge:

0.60

Orifice Coefficient of Contraction:

0.62 Orifice Coefficient of Velocity:

gpm

0.97

27

ft

Orifice / Vent Hole Flowrate:

2.15

Head Loss at Orifice / Vent Hole:

1.71

ft

Total Head: 20.88 ft

Pump to Deliver:

35.80

gals/min at 20.88 ft head

Dosing Volume:

171.60 gals.

Drawdown: 171.60 gals divided by

19 gals/in =

inches 9.03

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

A septic tank filter,

Hydromatic:

Goulds:

Myers:

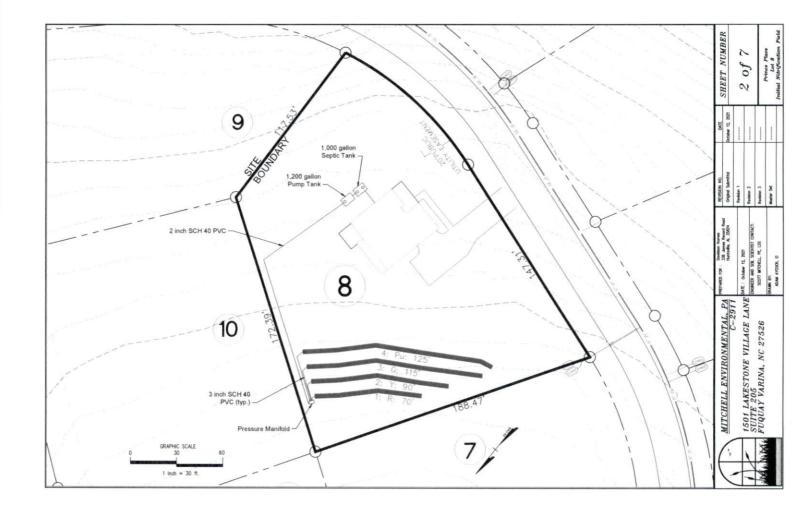
Zoeller: 153

Possible pumps:

Other:

TAP CHART

| Bench Mark | 4.15 | is = 100,00 | set at | T | op EIR 7/8 rear corne | er | Design Head: | 2.0 | |
|-----------------|--------|-------------|-----------|-------------|-----------------------|----------|----------------|----------------|-----------|
| Pump tank elev | | 11 | 93.15 | Pump elev. | 88.15 | | Manifold elev. | 99.38 | |
| line | color | rod read | Elevation | length | hole size | flow/tap | gal/day | trench area | LINE LTAR |
| 1 | Red | 5.27 | 98.88 | 70 | 1/2in SCH 80 | 5.48 | 78.17 | 210 | 0.3722 |
| 2 | Yellow | 5.64 | 98.51 | 90 | 1/2in SCH 40 | 7.11 | 101.42 | 270 | 0.3756 |
| 3 | Green | 6.06 | 98.09 | 115 | 3/4in SCH 80 | 10.10 | 144.07 | 345 | 0.4176 |
| 4 | Purple | 6.52 | 97.63 | 125 | (2) - 1/2in SCH 80 | 10.96 | 156.34 | 375 | 0.4169 |
| | | total | feet = | 400 | gal/min = | 33.7 | | LTAR = | 0.3000 |
| % of Pipe Vol. | | 66 | | Des. Flow | 480.00 | | | (ltar + 5%) | 0.3150 |
| Dose Volume | | 171.60 | | Pump Run= | 14.26 | | | (Itar W/ INOV) | 0.4000 |
| Dose Pump Tim | ie | 5.10 | | Tank Gal/IN | 19 | | | (ltar + 5%) | 0.4200 |
| Drawdown in In | ches | 9.03 | | Elev. Head | 11.23 | | | | |
| Supply Line Ler | ngth | 160 | | | | | | | |
| Comments: | | | | | | | | | |



Repair System

PRESSURE MANIFOLD DESIGN

Name: Davidson Homes

P.I.N. #: 0633-76-6508

D#: N/A

Address: Prince Place Drive

Subdiv: Prince Place

Lot#: <u>8</u>

of BDR: 4 Daily Flow:

480 gal/day L.T.A.R.: 0.300 gal/day/sq.ft

Number of Taps:

Septic Tank: 1000 gals (min.) Pump Tank: 1200 gals (min.)

Sq. Foot:

804 Stone Depth:

(Panel

Length of Trenches: 4

67

ft(See Tap Chart for Details)

Block)

Depth of Trenches:

see Harnett County Permit

Manifold Length:

42 in

Manifold Diameter: 3in sch 80pvc (minimum) Tap Configuration: 6 in spacing

side(s) of manifold

Supply Line: length: 120 ft

Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss:

2.22

ft(supply line length + 70' for fittings in pump tank)

Design Head:

2.0 ft **Elevation Head:**

10.07 ft

Vent Hole Size:

3/16 in

Orifice Coefficient of Discharge:

0.60

1

Orifice Coefficient of Contraction:

0.62

Orifice Coefficient of Velocity:

Pump to Deliver:

0.97

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

34

ft

ft

Orifice / Vent Hole Flowrate:

Total Head: 16.45 ft

2.42

gpm

Head Loss at Orifice / Vent Hole:

2.16 16.45

ft head

Dosing Volume:

114.97 gals.

Drawdown: 114.97 gals divided by

19 gals/in =

6.05 inches

24.34 gals/min at

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

A septic tank filter,

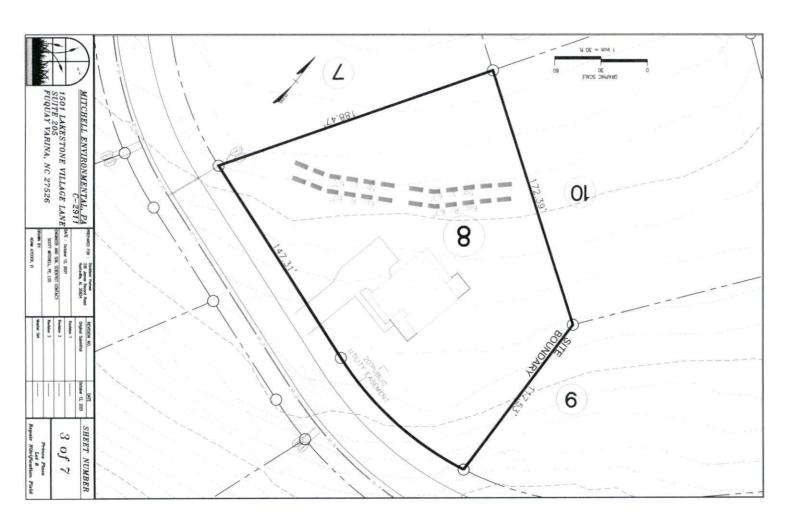
Goulds:

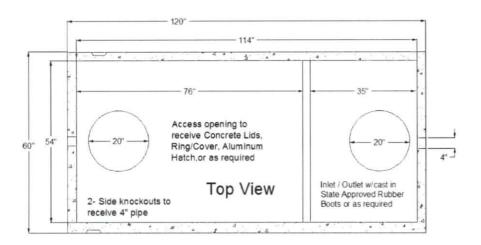
Possible pumps: Zoeller: 153 Hydromatic:

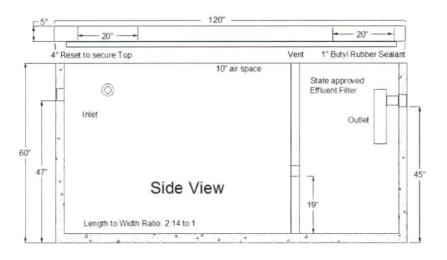
Other:

TAP CHART

| | | | | ואו טוואו | V 1 | | | | |
|------------------|-------|-------------|-----------|-------------|---------------------|----------|----------------|-----------------------|-----------|
| Bench Mark | 4.15 | is = 100.00 | set at | 1 | op EIR 7/8 rear cor | mer | Design Head: | 2.0 | |
| Pump tank elev. | | 11 | 93.15 | Pump elev. | 88.15 | | Manifold elev. | 98.22 | |
| line | color | rod read | Elevation | length | hole size | flow/tap | gal/day | trench area | LINE LTAR |
| 5a | Lime | 6.93 | 97.22 | 67 | 1/2in SCH 80 | 5.48 | 120.00 | 201 | 0.5970 |
| 5b | Lime | 6.93 | 97.22 | 67 | 1/2in SCH 80 | 5.48 | 120.00 | 201 | 0.5970 |
| 6a | Red | 7.27 | 96,88 | 67 | 1/2in SCH 80 | 5.48 | 120.00 | 201 | 0.5970 |
| 6b | Red | 7.27 | 96.88 | 67 | 1/2in SCH 80 | 5.48 | 120.00 | 201 | 0.5970 |
| | | total | feet = | 268 | gal/min = | 21.9 | | LTAR = | 0.3000 |
| % of Pipe Vol. | | 66 | | Des. Flow | 480.00 | | | (ltar + 5%) | 0.3150 |
| Dose Volume | | 114.97 | | Pump Run= | 21.90 | | | (Itar W/ Panel Block) | 0.6000 |
| Dose Pump Time | | 5.25 | | Tank Gal/IN | 19 | | | (ltar + 5%) | 0.6300 |
| Drawdown in Incl | hes | 6.05 | | Elev. Head | 10.07 | | | | |
| Supply Line Leng | gth | 120 | | | | | | | |
| Comments: | | | | | | | | | |







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

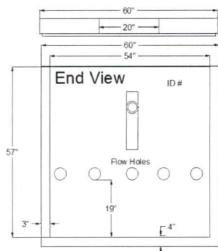
Est. Weight: 8,200 lbs.

Manufactured By:



Eddie Garner, President 919-718-5181

121 Stanton Hill Road Carthage, NC 28327 Fax 919-77 Eddle@garnersseptictanks.com Fax 919-775-2229





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.
- 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.

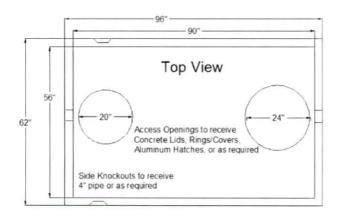


4" SCHD 40

to 110mm Pipe

4" SCHD 40

to SDR 35



PT - 213 Top seam

Date: 08-18-93 Non Traffic Rated

Liquid Capacity 1,211 Gallons

Reinforcing Schedule: #3 Grade 60 Rebar 4500 PSI Concrete w/ State Approved Structural Fiber 2.5 yds. Est. Weight 8,900 lbs. 19 gals. per in.

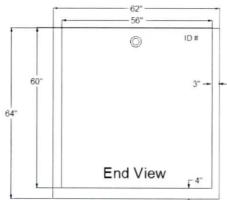
Manufactured By:

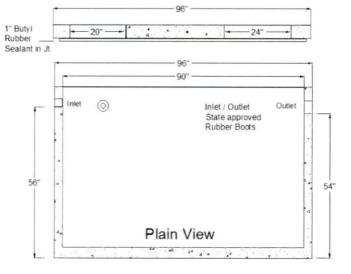


Eddie Garner, President 919-718-5181 121 Stanton Hill Road Carthage, NC 28327 Fax 919-77: Eddle@garnersseptictanks.com

Fax 919-775-2229







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.

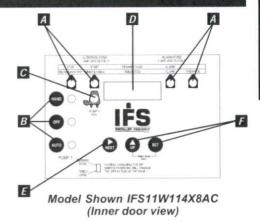
TOUCH PAD FEATURES

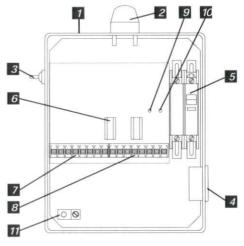
- A. Float Indicators illuminate when floats are activated. Alarm will activate if a float operates out of sequence.
- B. HOA (Hand-Off-Automatic) Buttons control pump mode with indication. Hand mode defaults to Automatic when stop level or redundant off level is reached.
- C. Pump Run Indicator illuminates 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.
- Alarm Horn provides audio warning of alarm condition (83 to 85 decibel rating).
- Circuit Breaker (optional) provides pump disconnect and branch circuit protection.
- 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
- 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 (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



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 MODEL TYPE 1 = SPLX TIMED DOSE (includes option 8AC standard) 2 = SPLX DEMAND DOSE (includes option 8AC standard) ALARMPACKAGE 1 = alarm package (includes test/normal/silence switch, fuse, red light & horn) ENCLOSURE RATING W = NEMA 4X 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 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 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 1J Duo alarm inputs 3A Alarm flasher 3B Manual reset alarm 4A Redundant off (select option 4D if floats are required) Demand Dose Timed Dose 4D Redundant off float 6A Auxiliary alarm contacts, form C 8AC Display board includes: ETM counter, events (cycles) counter, alarm counter, and override counter (timed dose only). (Included as standard.) 10E Lockable latch - NEMA 4X 10F Lightning arrestor (must select pump circuit breaker, control and alarm power combined) 10K Anti-condensation heater 11C NEMA 1 remote alarm panel | 11D X 15A 16A 16B 16C 17C 17D 17G 17H 17J | NEMA 4X remote alarm panel (must select option 6A) Control / Alarm circuit breaker 10' cord in lieu of 20' (per float) 15' cord in lieu of 20' (per float) 30' cord in lieu of 20' (per float) 40' cord in lieu of 20' (per float) Sensor Float® / internally weighted ▲ (per float) Sensor Float® / externally weighted ▲ (per float) MilliAmpMaster™/ pipe clamp ♠ (per float) MilliAmpMaster™/ externally weighted ♠ (per float) Sensor Float® / pipe clamp ♠ (per float) Timer override option with float (timed dose only) Mechanically-activated ▲ Mercury-activated |
|----|--|--|---|
| SA | MPLE MODEL IFS 1 1 W 9 1 Model Type Alarm Package Enclosure Rating Starting Device Pump Full Load Amps Pump Disconnects Switch Application Options: Display, Lockable Latch, SJE MilliAmpMaster*/pipe clamp | 4 H | 8 <i>AC</i> 10E17 <i>G</i> |

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

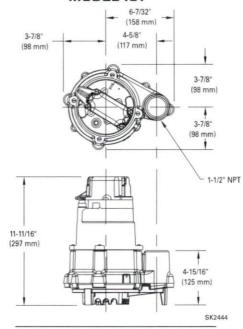
PRODUCT SPECIFICATIONS

| | FIIODOG | I DI LON IDATIONO |
|-----------|----------------------|---|
| | Horse Power | 1/3 (151), 4/10 (152), 1/2 (153) |
| | Voltage | 115 or 230 |
| 00 | Phase | 1 Ph |
| 5 | Hertz | 60 Hz |
| MOTOR | RPM | 3450 |
| Σ | 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) |
| PUMP | 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 |
| A | Upper Bearing | Sleeve bearing |
| 3 | Lower Bearing | Ball bearing |
| MATERIALS | Mechanical Seals | Carbon and ceramic |
| Z | ImpellerType | Non-clogging vortex |
| 2 | Impeller | Engineered thermoplastic |
| | Hardware | Stainless steel |
| | Motor Shaft | AISI 1215 steel |
| | Gasket | Neoprene |

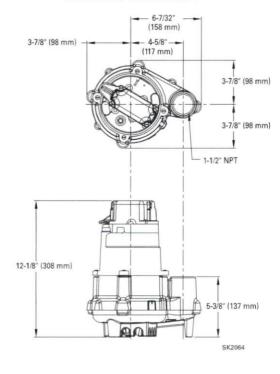
NOTE: The sizing of effluent systems normally requires variable level float(s) controls and properly sized basins to achieve required pumping cycles or dosing timers with nonautomatic pumps.

NOTE: See model comparison chart for specific details.

MODEL 151



MODELS 152 & 153





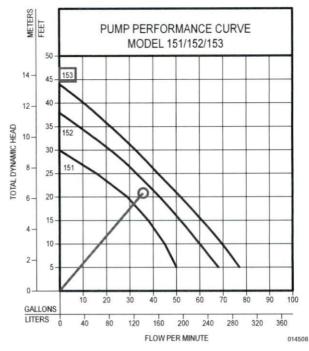






TOTAL DYNAMIC HEAD FLOW PER MINUTE

| MO | DEL | 1 | 51 | 1 | 52 | 1 | 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-o | off Head: | 30 ft. | (9.1m) | 38 ft. | (11.6m) | 44 ft. | (13.4m) |



| Mandal | | | | | M | DDEL CO | MPARISO | N | | | |
|--------|--------|------|-------|----|------|---------|---------|-----|----|---------|--------|
| Model | 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.

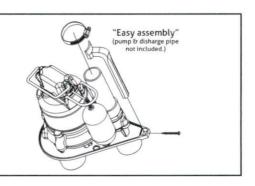
SELECTION GUIDE

- 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.
- 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

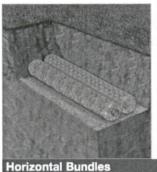
Bundle System Configurations: Available in 7", 8", 9", 10", 12", 13" and 14" diameter bundles.



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



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



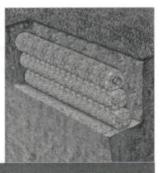
0705H-GEO 1303H-GEO 0904H-GEO 1202H-GEO 1002H-GEO 1203H-GEO



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



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



1203V-GEO 1206V-GEO 1204V-GEO 1402V-GEO

Notes:

- Other systems include 10" and 12" bed systems. Bed size will dictate the number of bundles.
- System dimensions are dependent upon bundle diameter and configuration.
- 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.
- 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.

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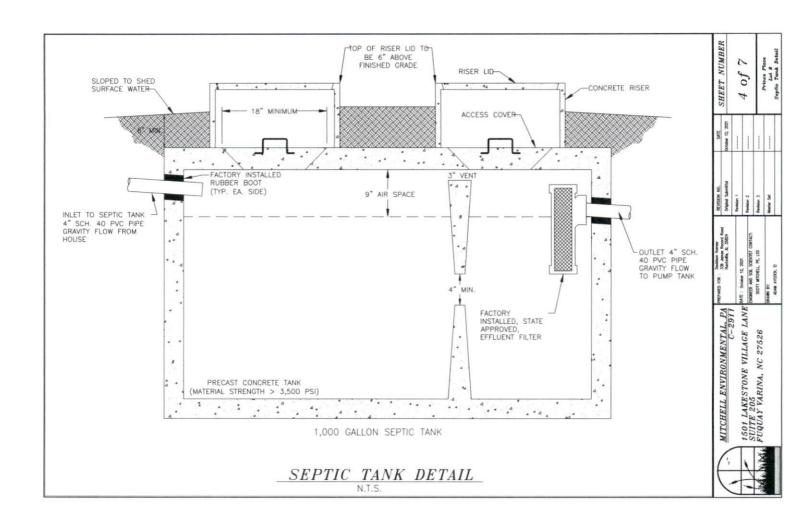


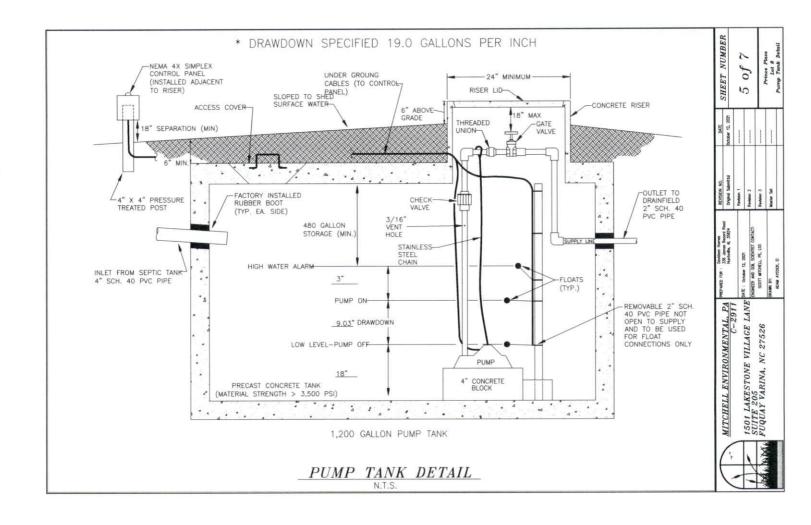
4 Business Park Road P.O. Box 768 Old Saybrook, CT 06475 860-577-7000 • Fax 860-577-7001

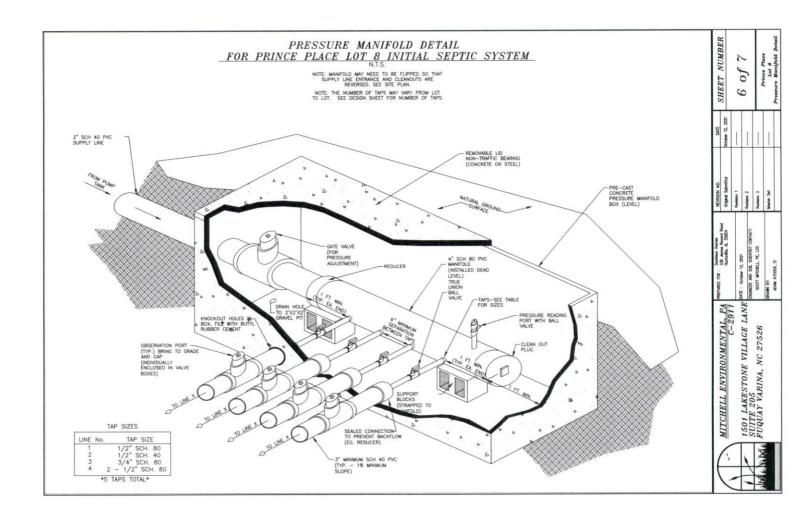
1-800-221-4436 www.infiltratorwater.com

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, QuickPut, QuickPut, 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.

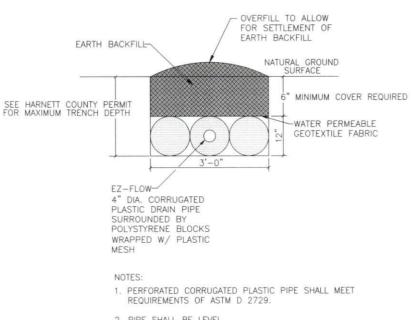
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NITRIFICATION TRENCH DETAIL FOR EZ-FLOW



- 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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