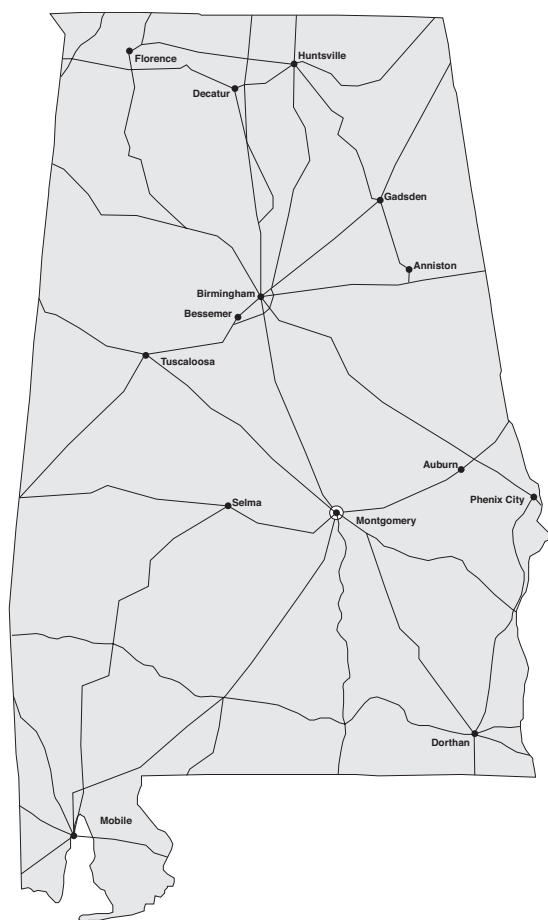


Design and Installation Manual for Infiltrator Chambers in Alabama



The purpose of this product information sheet is to provide specific design and installation information pertinent for the use of Infiltrator chambers in Alabama.

For more detailed design information,
please contact Infiltrator Water Technologies at 1-800-221-4436

Alabama

Infiltrator Chambers in Alabama

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SYSTEM SIZING	5
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Alabama

INTRODUCTION

SideWinder® Sidewall

Infiltrator Leaching Chambers are an effective replacement for stone and pipe in septic leachfields. The chamber's unique, fully-louvered SideWinders sidewall produces maximum infiltrator area. The Infiltrator leaching chamber design offers twice the leaching area below the invert than that of a same-length stone and pipe system.

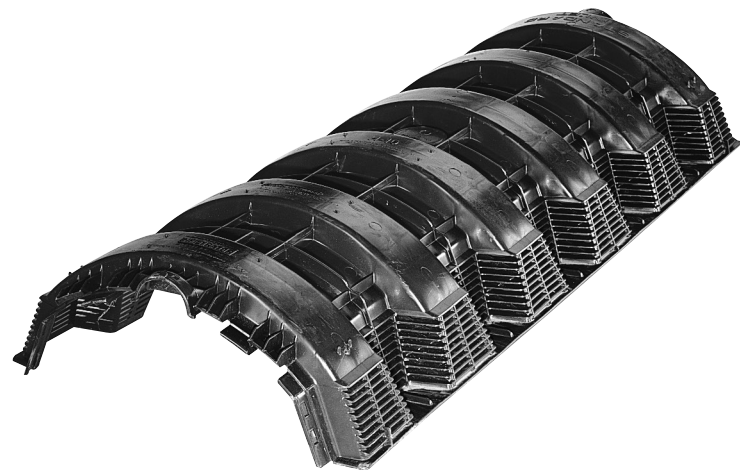
Infiltrator Chambers

Infiltrator Standard and High Capacity SideWinder Chambers fit a 36-inch wide trench. The Equalizer 36 Chamber can be installed in a 24-inch wide trench. The Equalizer 24 Chamber fits in a 18-inch wide trench. There are a variety of system inletting options for choose from.

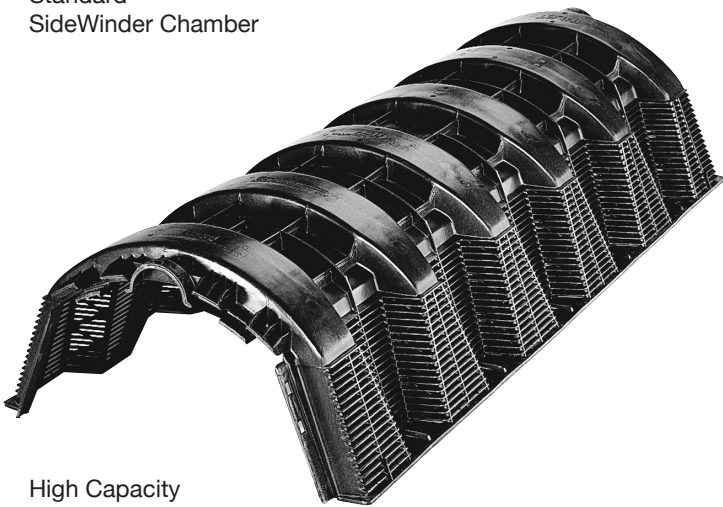
NOTE: The Equalizer 24 Chamber is for use in Jefferson County only.



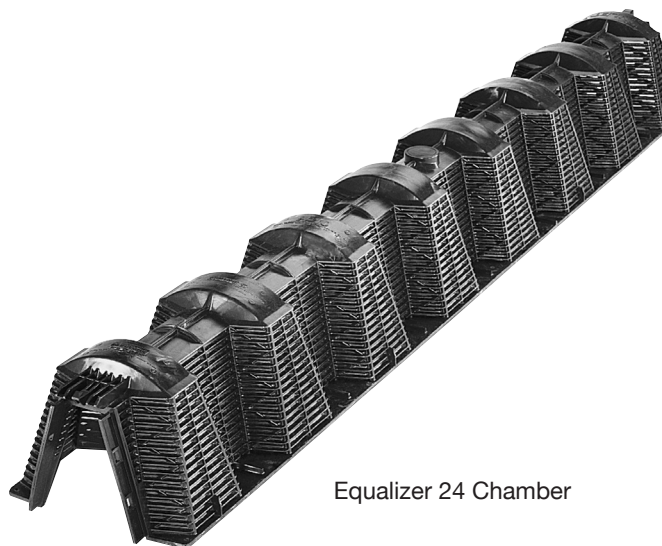
SideWinder
Sidewall



Standard
SideWinder Chamber



High Capacity
SideWinder Chamber



Equalizer 24 Chamber

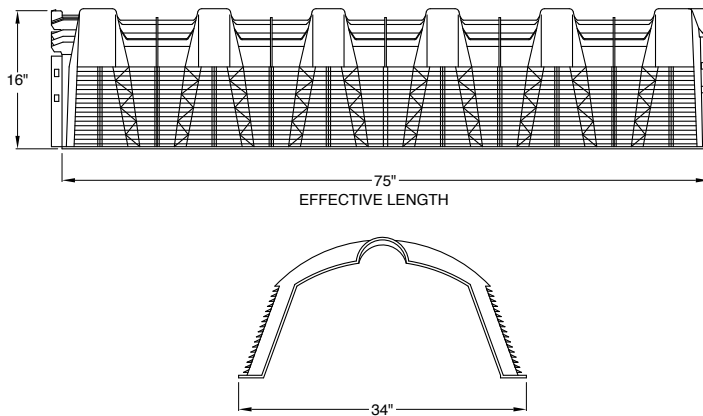


Equalizer 36 Chamber

PRODUCTS

High Capacity and High Capacity SideWinder Chambers

SIDE AND END VIEWS (not to scale)

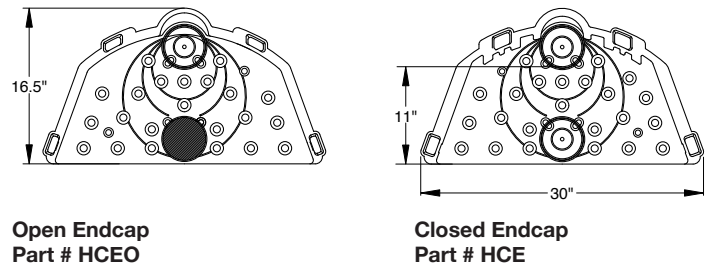


Nominal Chamber Dimensions

Size:	34"W x 75"L x 16"H
Invert Elevation:	11"
Storage:	112.5 gal (15 ft ³)
Weight:	38 lbs

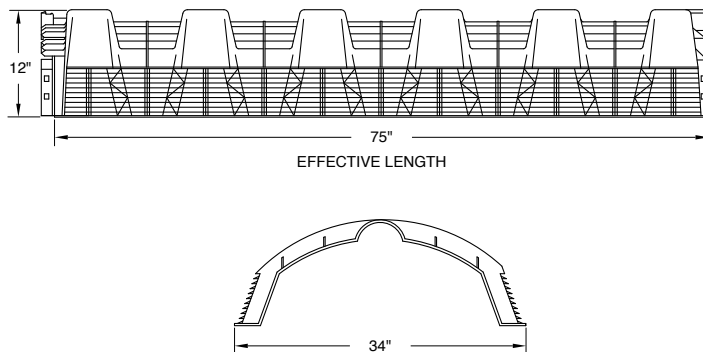
NOTE: Invert elevations may be altered by drilling an appropriate diameter hole at the desired elevation.

POSILOCK ENDCAPS (not to scale)



Standard and Standard SideWinder Chambers

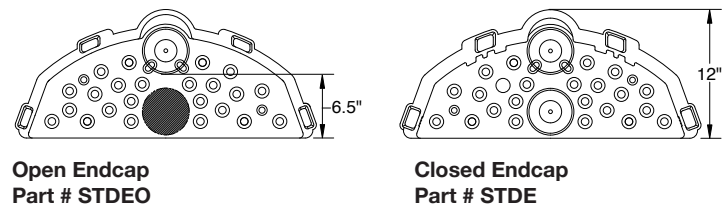
SIDE AND END VIEWS (not to scale)



Nominal Chamber Dimensions

Size:	34"W x 75"L x 12"H
Invert Elevation:	6.5"
Storage:	83.8 gal (11.2 ft ³)
Weight:	29 lbs

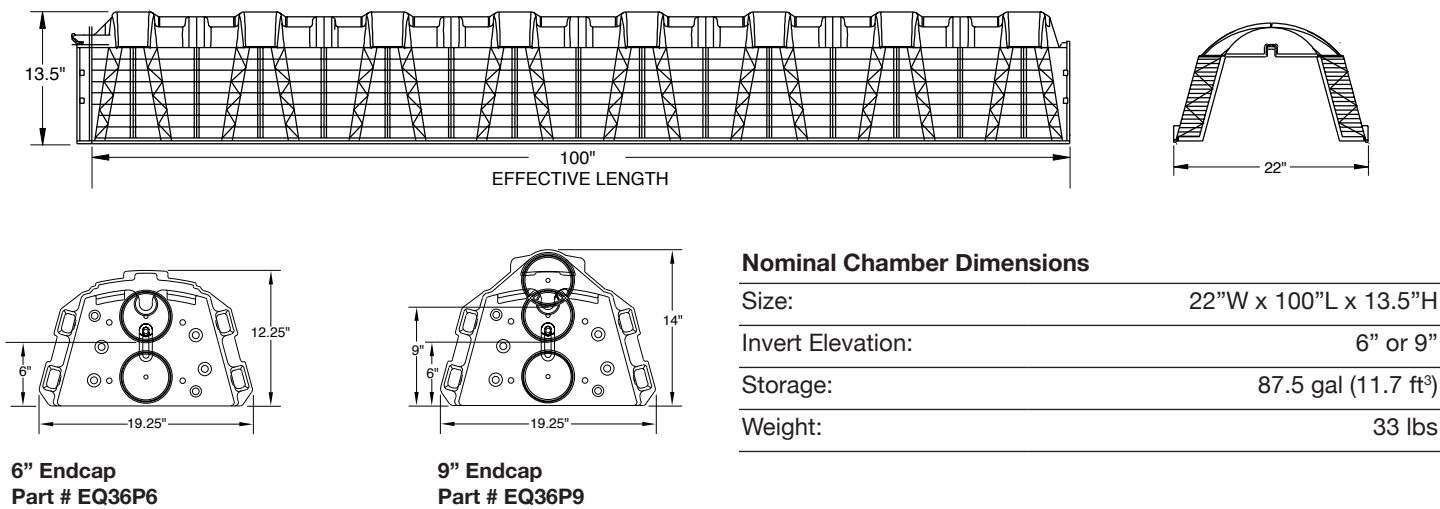
NOTE: Invert elevations may be altered by drilling an appropriate diameter hole at the desired elevation.



PRODUCTS

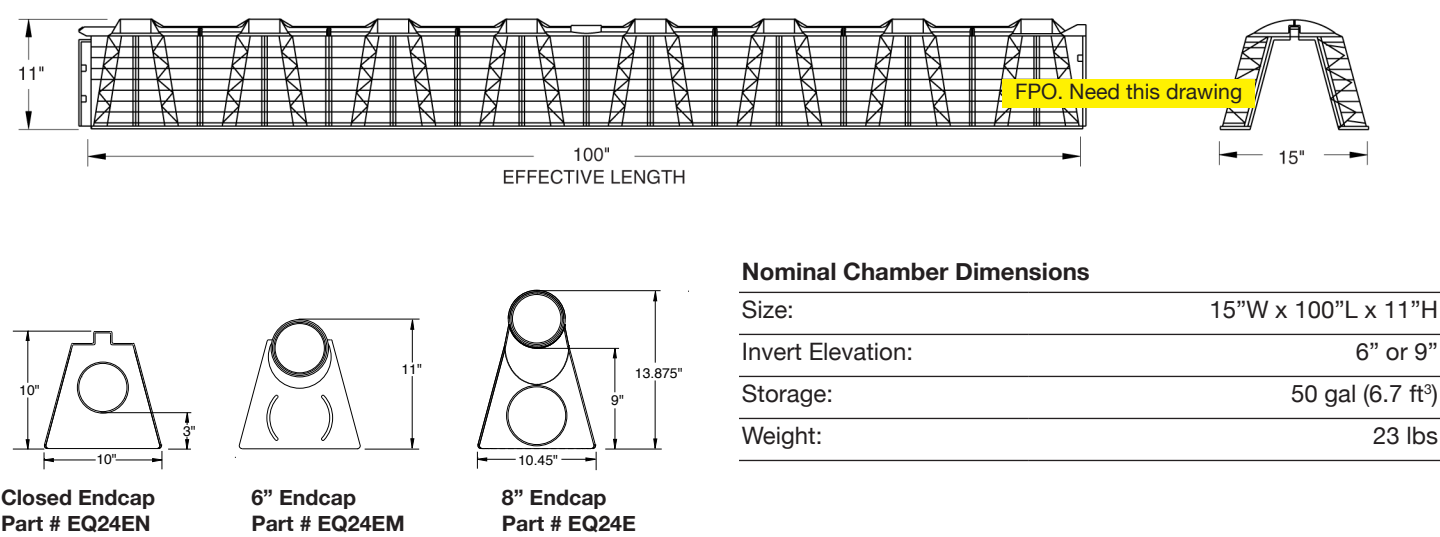
Equalizer 36 and QuickCut Chambers

SIDE AND END VIEWS (not to scale)



Equalizer 24 Chambers

SIDE AND END VIEWS (not to scale)



SYSTEM SIZING

Chart data from Jessica. 6.26.13
As shown, now includes Q4 STD. Chamber
not mentioned earlier in Manual. Pls advise. —ML

Percolation Rate (min/in)	Single Family Dwellings									
	Primary Disposal Fields					Separate Washer Line (1)				
	Square Feet per Bedroom	# of Chambers per Bedroom ² (Linear Feet of Trench)				Square Feet per Bedroom	# of Chambers per Bedroom ² (Linear Feet of Trench)			
		Quick 4 Std	Std H-10 / Std SW	HC H-10 / HC SW	Equalizer 36		Quick 4 Std	Std H-10 / Std SW	HC H-10 / HC SW	Equalizer 36
5-10	125	6.25	4.00	4.00	4.12	25	1.25	0.80	0.80	0.82
		(25.00)	(25.00)	(25.00)	(34.35)		(5.00)	(5.00)	(5.00)	(6.87)
11-15	170	8.50	5.44	5.44	5.61	34	1.70	1.09	1.09	1.12
		(34.00)	(34.00)	(34.00)	(46.72)		(6.80)	(6.80)	(6.80)	(9.34)
16-20	194	9.70	6.21	6.21	6.40	39	1.95	1.25	1.25	1.29
		(38.80)	(38.80)	(38.80)	(53.32)		(7.80)	(7.80)	(7.80)	(10.72)
21-25	222	11.10	7.10	7.10	7.32	44	2.20	1.41	1.41	1.45
		(44.40)	(44.40)	(44.40)	(61.01)		(8.80)	(8.80)	(8.80)	(12.09)
26-30	242	12.10	7.74	7.74	7.98	48	2.40	1.54	1.54	1.58
		(48.40)	(48.40)	(48.40)	(66.51)		(9.60)	(9.60)	(9.60)	(13.19)
31-35	260	13.00	8.32	8.32	8.58	52	2.60	1.66	1.66	1.72
		(52.00)	(52.00)	(52.00)	(71.46)		(10.40)	(10.40)	(10.40)	(14.29)
36-40	276	13.80	8.83	8.83	9.11	55	2.75	1.76	1.76	1.81
		(55.20)	(55.20)	(55.20)	(75.85)		(11.00)	(11.00)	(11.00)	(15.12)
41-45	300	15.00	9.60	9.60	9.90	60	3.00	1.92	1.92	1.98
		(60.00)	(60.00)	(60.00)	(82.45)		(12.00)	(12.00)	(12.00)	(16.49)
46-50	310	15.50	9.92	9.92	10.23	62	3.10	1.98	1.98	2.05
		(62.00)	(62.00)	(62.00)	(85.20)		(12.40)	(12.40)	(12.40)	(17.04)
51-55	320	16.00	10.24	10.24	10.56	64	3.20	2.05	2.05	2.11
		(64.00)	(64.00)	(64.00)	(87.95)		(12.80)	(12.80)	(12.80)	(17.59)
56-60	330	16.50	10.56	10.56	10.89	66	3.30	2.11	2.11	2.18
		(66.00)	(66.00)	(66.00)	(90.70)		(13.20)	(13.20)	(13.20)	(18.14)

(1) Primary disposal field may be reduced by amount used for washer line, not to exceed one-fifth.

(2) Each system must have a minimum of 10 chambers.

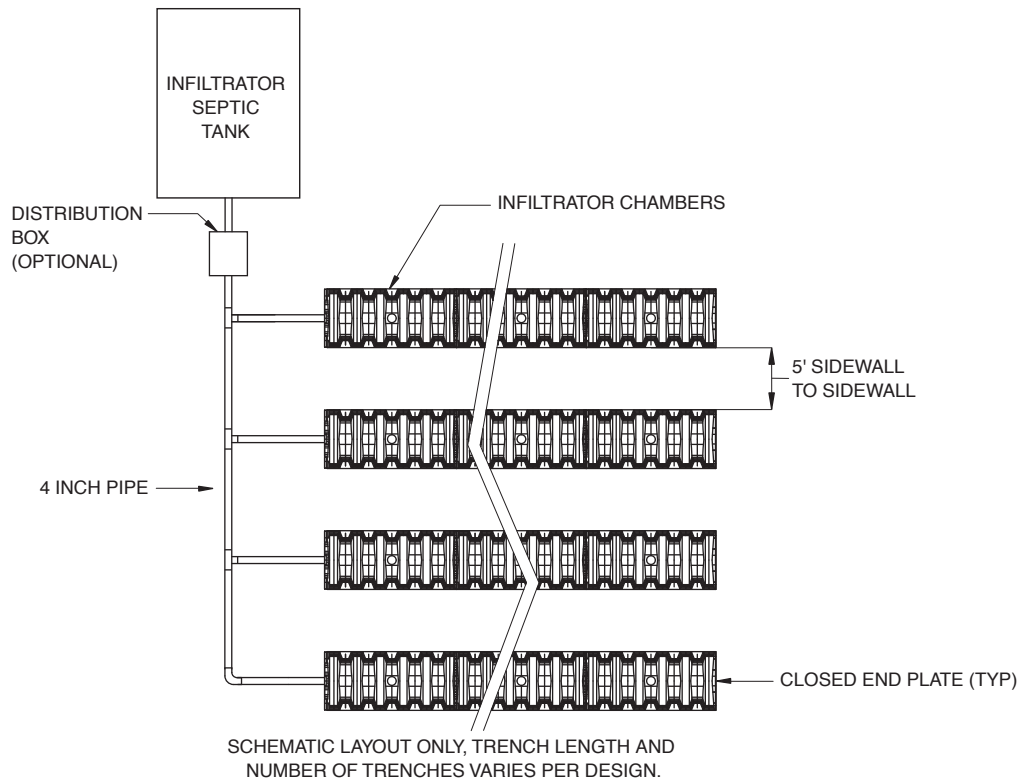
NOTE: Chambers must be installed in full lengths. Installed chambers lengths are:

PRODUCT	LENGTH
Quick 4 Standard	4.00'
Standard H-10 / Standard Sidewinder	6.25'
High Capacity H-10 / High Capacity Sidewinder	6.25'
Equalizer 36	8.33'

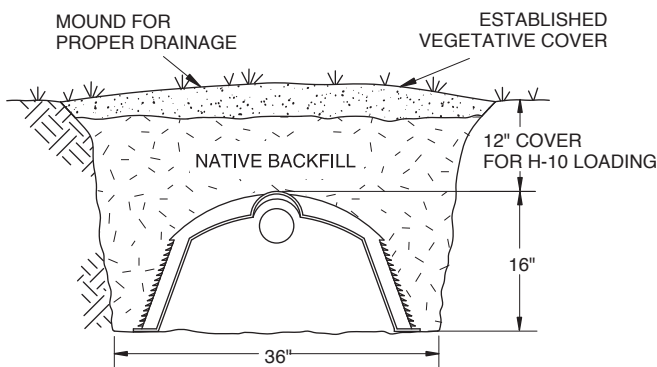
CHAMBER CONFIGURATIONS

Standard and High Capacity SideWinder Trench Configurations

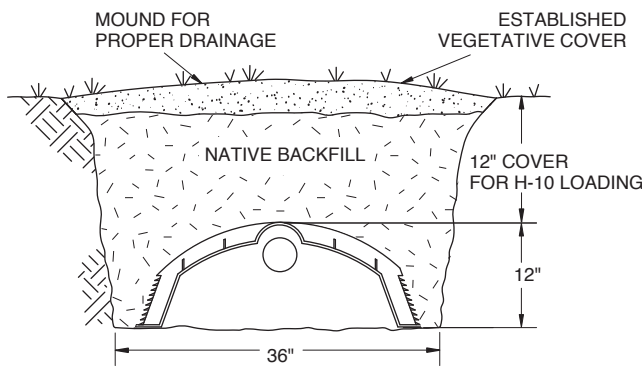
TYPICAL PLAN VIEW (not to scale)



TYPICAL HIGH CAPACITY CROSS SECTION (not to scale)



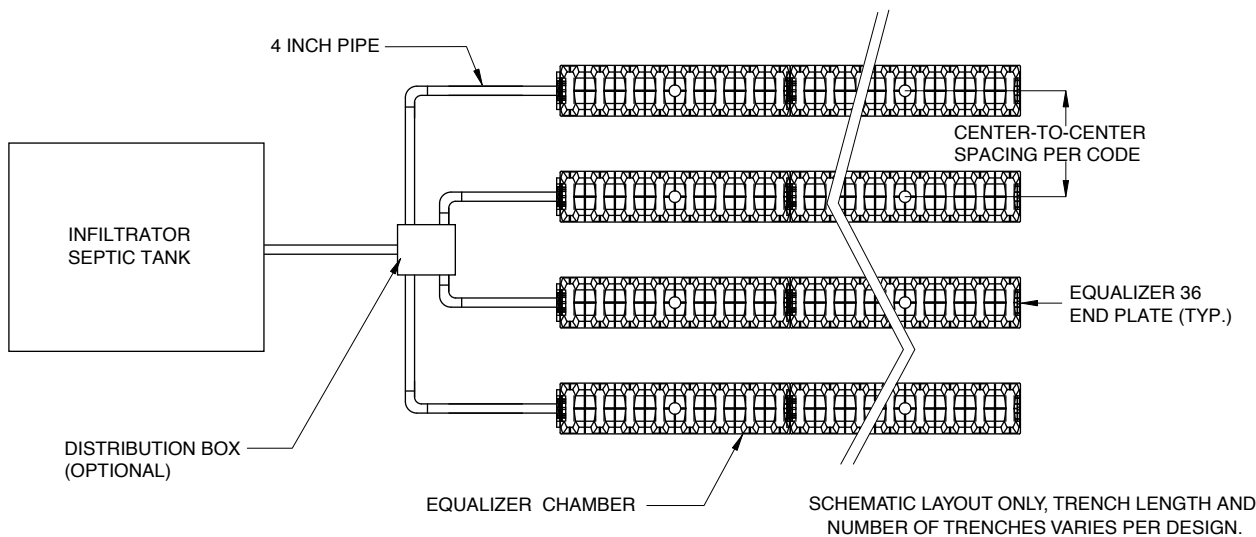
TYPICAL STANDARD CROSS SECTION (not to scale)



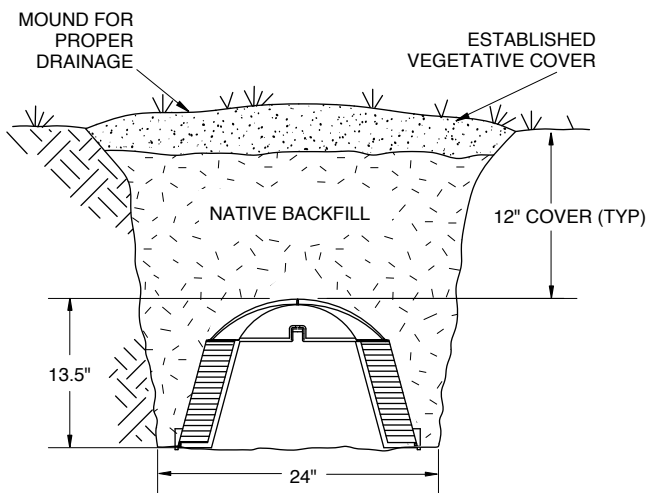
CHAMBER CONFIGURATIONS

Equalizer Trench Configurations

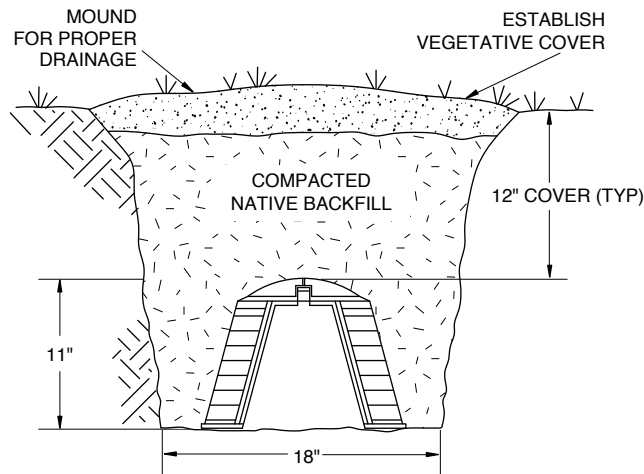
TYPICAL PLAN VIEW (not to scale)



TYPICAL EQUALIZER 36 AND QUICKCUT CROSS SECTION (not to scale)



TYPICAL EQUALIZER 24 CROSS SECTION (not to scale) Applies to Jefferson County.



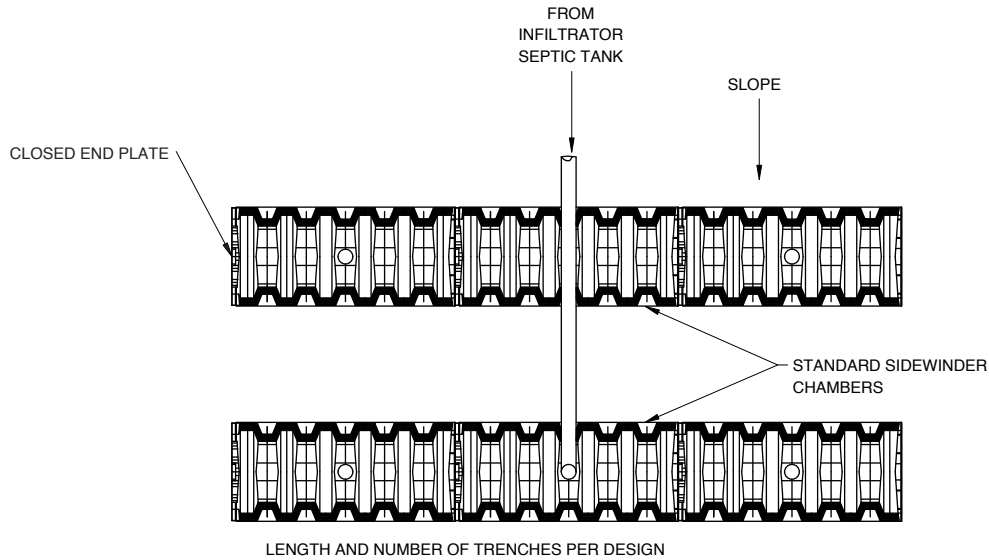
CHAMBER CONFIGURATIONS

Serial Distribution

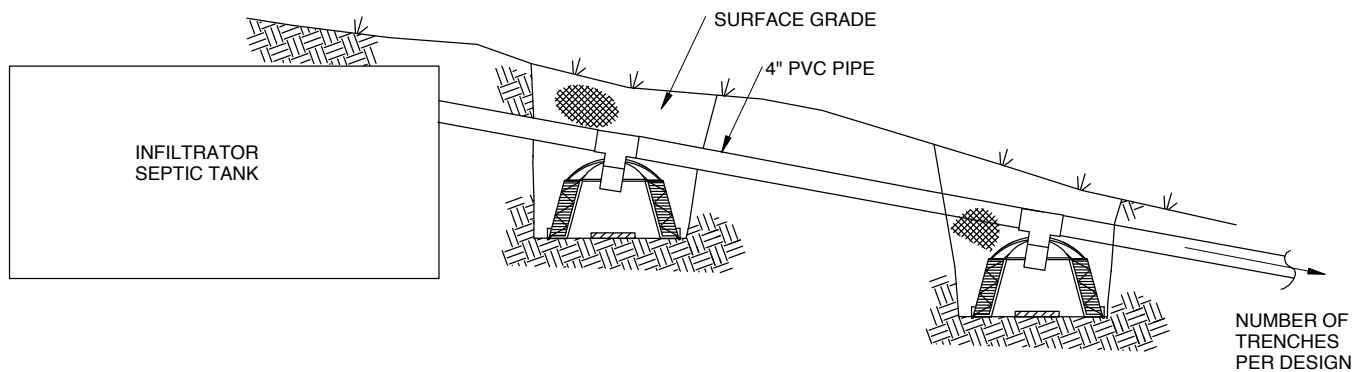
Approved System Designs

Infiltrator Chambers using gravity-fed serial distribution methods may be laid out with the alternate end inlet, inspection port inlet or various other methods. The following figures illustrate some of these typical design options.

TYPICAL INSPECTION PORT INLET PLAN VIEW (not to scale)



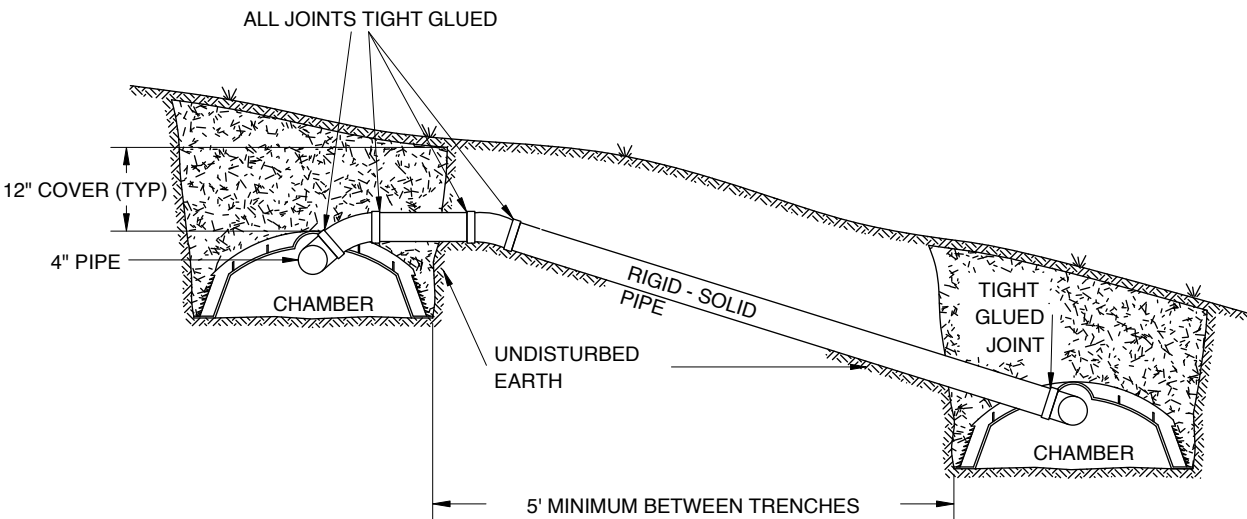
TYPICAL INSPECTION PORT INLET CROSS SECTION
(not to scale)



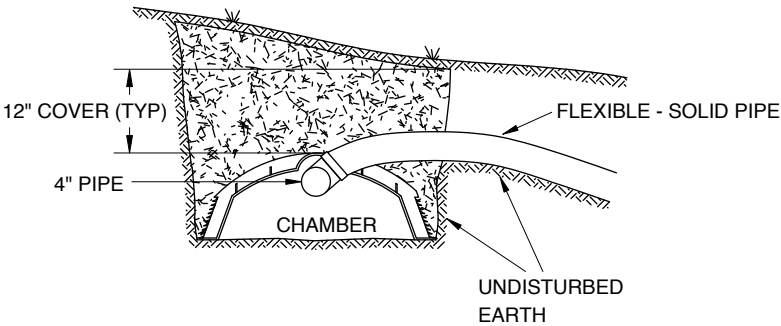
CHAMBER CONFIGURATIONS

Serial Distribution

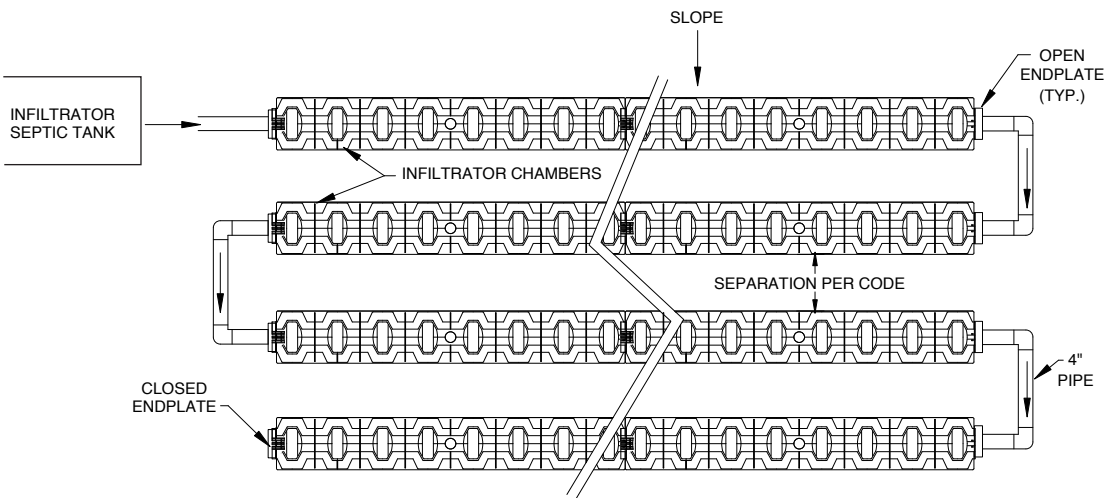
TYPICAL CROSSOVER USING RIGID PIPE (not to scale)



TYPICAL CROSSOVER USING FLEXIBLE PIPE (not to scale)



TYPICAL SERIAL DISTRIBUTION ALTERNATE-END INLET (not to scale)

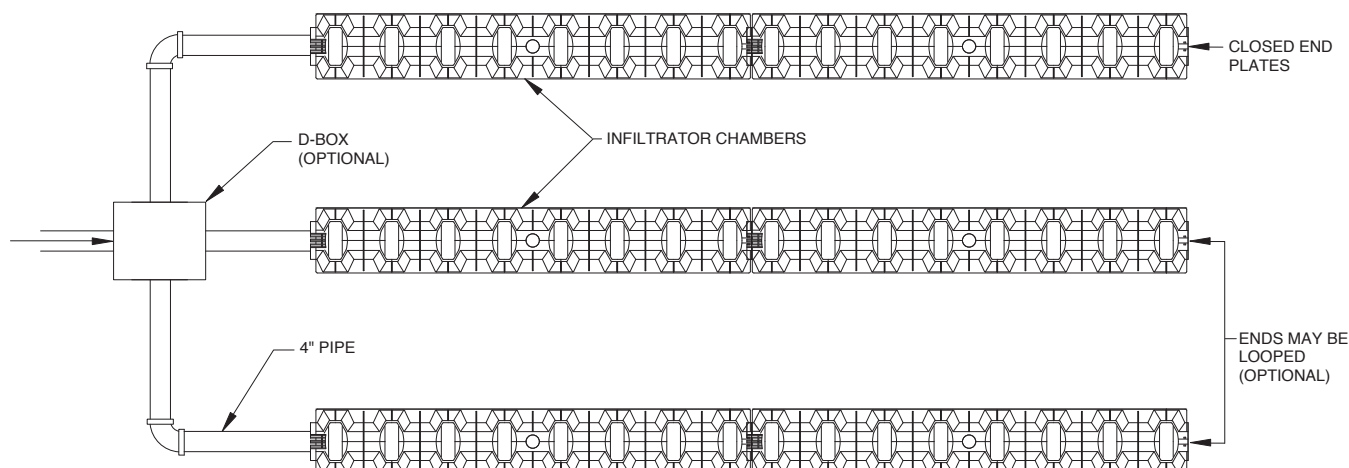


CHAMBER CONFIGURATIONS

Equal Distribution

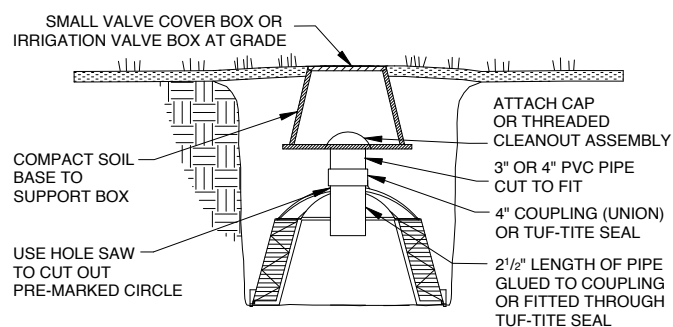
Infiltrator's Equalizer, High Capacity and Standard Chamber systems may also be designed using equal distribution methods.

TYPICAL EQUAL DISTRIBUTION METHOD (not to scale)

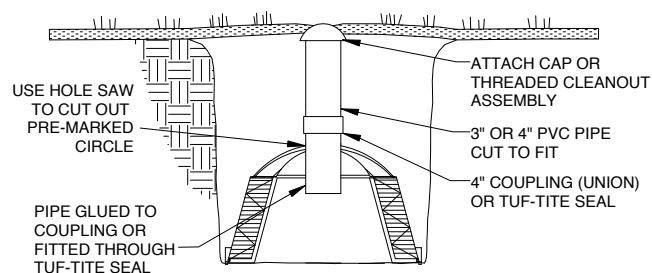


Inspection Port Detail

OPTION A: INSTALLATION WITH VALVEBOX
(not to scale)



OPTION B: RISER TO GRADE (not to scale)



CHAMBER CONFIGURATIONS

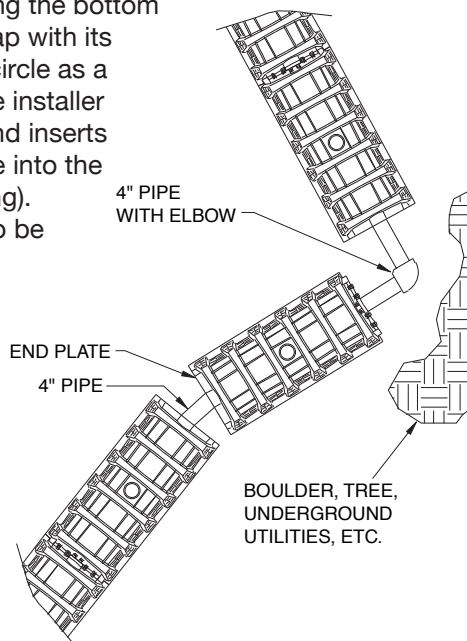
Turn Design Configurations

Chambers can be adapted to sites with natural obstructions.

PVC Pipe with Endcaps

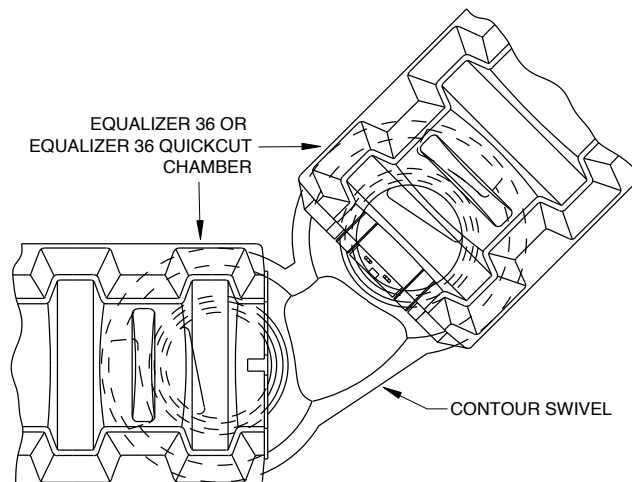
With two modified endcaps and a short piece of elbowed pipe, the bed requirement can be easily met.

This is done by using the bottom of the closed endcap with its 4-inch premarked circle as a drill-hole guide. The installer cuts out the hole and inserts the connecting pipe into the endcap (see drawing). Chambers may also be connected by open endcaps, resulting in serial-type loading.



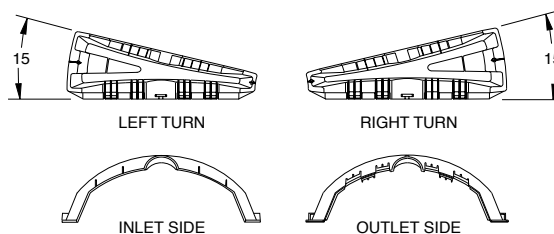
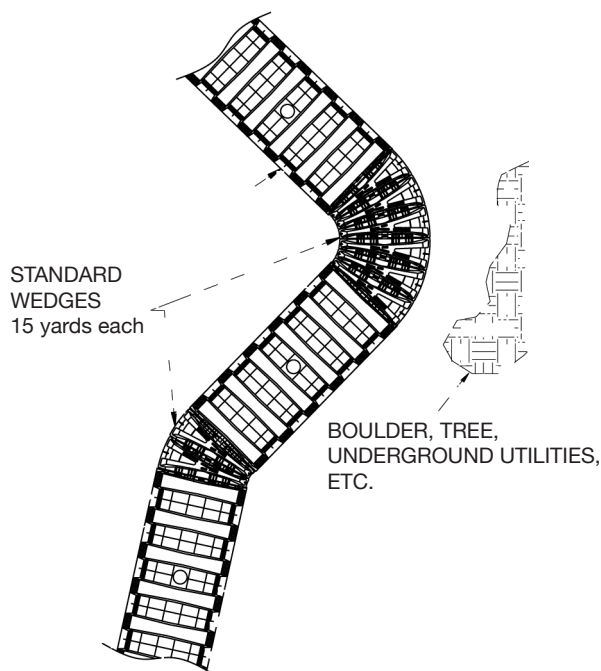
Contour Swivel

The Contour Swivel is designed to accommodate the natural contours of sloping sites and to avoid site obstructions. The Equalizer 36 chamber allows for change in trench directions from 0 to 90° left or right.



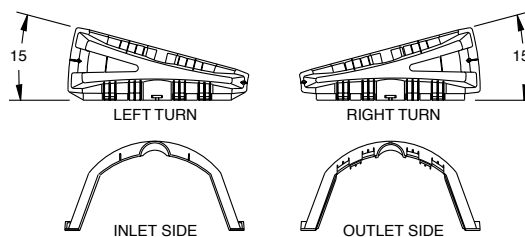
Contour Wedge

Standard and High Capacity Wedges can be utilized to make turns on sites with natural obstructions.



Standard Wedge Specifications

Size:	34"W x 9.5"L x 12"H
Weight:	3.5 lbs



High Capacity Wedge Specifications

Size:	34"W x 9.5"L x 16"H
Weight:	4 lbs

INSTALLATION INSTRUCTIONS

Before You Begin

This section provides installation instructions for Infiltrator Chambers in Alabama. These chambers may be installed according to state and/or local regulations. If unsure of the installation requirements for a site, contact Infiltrator Water Technologies. Similar to conventional systems, the soil and site conditions must be approved for installation. Be sure that a thorough site evaluation is conducted to determine the proper size and location of the system before proceeding with the installation.

Materials and Equipment Needed

- | | |
|---|---|
| <input type="checkbox"/> Infiltrator Chambers | <input type="checkbox"/> Shovel and Rake |
| <input type="checkbox"/> Endcaps | <input type="checkbox"/> Tape Measure |
| <input type="checkbox"/> 4" Pipe and Couplings | <input type="checkbox"/> Screw Gun* |
| <input type="checkbox"/> Glue | <input type="checkbox"/> Backhoe / Bulldozer* |
| <input type="checkbox"/> Laser / Transit / 4' Level | <input type="checkbox"/> Hole Saw / Router Bit* |
| <input type="checkbox"/> Utility Knife | *Optional. |

These guidelines for construction machinery must be followed during installation.

- ☐ Avoid direct contact with chambers when using construction equipment. Chambers require a 12-inch minimum of compacted cover to support a wheel load rating of 16,000 lbs/axle or equivalent to an H-10 AASHTO load rating.
- ☐ Only drive across the trenches when necessary. Never drive down the length of the trenches.
- ☐ To avoid additional soil compaction, never drive heavy vehicles over the completed system.
- ☐ Maximum depth of cover is 8 feet.
- ☐ All Infiltrator Chambers can attain an H-10 load.

Excavating and Preparing the Site

1. Stake out the location of all trenches and lines. Set the elevations of the tank, pipe, and trench bottom.
2. Excavate and level the trenches. Trenches should be excavated as level as possible with a maximum slope of 2 inches per 100 feet for gravity distribution.
3. Rake the bottom and sides of the trench if smearing has occurred while excavating. Remove any large stones and other debris.

NOTE: Minimize foot traffic within the trench to protect the trench bottom from compaction.

4. Check to be sure that the trench is **approximately** level using a 4' level, transit or laser.

Attaching the Endcaps

The endcap features two sets on hubs, which allow them to attach to the inlet and outlet ends of the system. For details on endcaps refer to pages 3 and 4

1. Cut an opening for the inlet pipe on one of the premarked circles on the endcap, depending on the type of pipe being used. The inner, pre-marked circle fits a typical 4-inch SDR35 pipe snugly. The outer, premarked circle fits a 4-inch SCH40 pipe of a 4-inch corrugated pipe snugly. But, a smaller diameter pipe may be utilized.

NOTE: Prescribed invert highest molded into the endcap may be modified to meet elevation site constraints.

NOTE: The endcap is designed so the effluent will flow into it and spill out the opening on the other side. No splash plate is required.

2. Attached the endcap to the inlet end of the chamber by lining up the locking hubs with the corresponding chamber end. Applying firm pressure, lock the hubs in place on one side of the chamber end then the other.
3. Attach a closed endcap onto the outlet end of the chamber by snapping the endcap's locking hubs onto the chamber end. Do not cut an opening on the closed or outlet endcap.

Installing the Chambers

1. Check the header pipe to be sure it is level.
2. Set the inlet invert at the appropriate elevation from the bottom of the trench relative to the endcap and chamber being installed.
3. Place the first chamber with its endcap at the beginning of the trench.
4. Insert the inlet pipe into the end of the chamber. The pipe will only go into the unit 1" before it reaches a stop.
5. Check the first chamber to be sure it is approximately level or within the allowable fall for conventional stone and pipe systems.
6. Secure the inlet pipe to the endcap with a screw at the 12 o'clock position.
7. Lift and place the end of the chamber into the previous one by holding it upright at a 45° angle. Line up the hook on the center end of this chamber and lower it to ground, engaging the patented interlocks.
8. Continue interlocking the chambers until the trench is complete. As chambers are installed, verify that they are approximately level.



7. Connect chambers.

9. Backfill the sidewall area to above the louvers from the trench sides with a shovel.
10. Pack down the fill by walking along the edges of the trench.



10. Walk-in fill.

INSTALLATION INSTRUCTIONS

Installing Optional Inspection Ports

Standard and High Capacity, SideWinder and Equalizer 36 Chambers require a 4-inch pipe for inspection ports. Equalizer 24 Chambers require a 2-inch pipe.

1. Using a hole saw or router bit, create an opening in the pre-marked area located in the center top of the chamber. Be sure to use a saw that matches the size of pipe being installed.
2. Glue a 6-inch long PVC pipe into a coupling.
3. Insert the pipe into the opening at the top of the chambers so the coupling sits on top of the chamber.
4. Insert another piece of pipe into the coupling and cut it at or above grade.
5. Attached a threaded cleanout assembly into the protruding pipe for inspection port access.
6. A small valve box or irrigation box may be used if the inspection port is desired below grade.

Covering the System

1. Backfill the chamber system by pushing fill over the chambers with a backhoe or small tracked dozer perpendicular to the chambers. Keep a minimum of 12 inches of compacted cover over the chambers before driving over the system. When finishing the system, it is best to leave soil mounded above the trenches to allow for settling and to be sure that runoff water is diverted away from the leachfield.

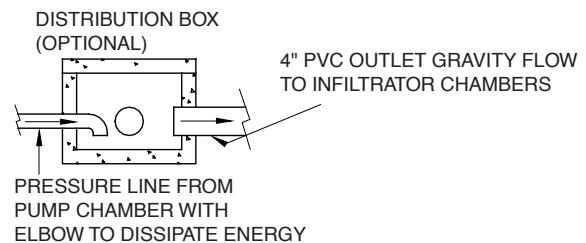
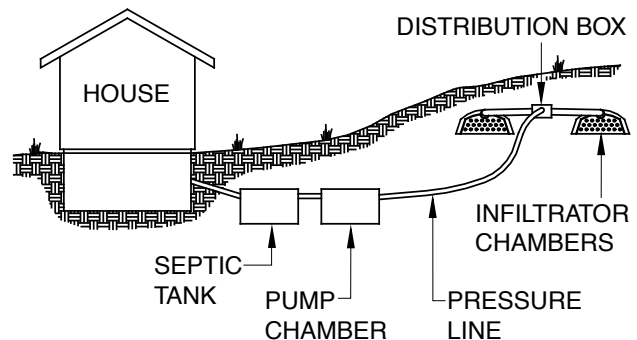


1. Push fill over chambers.

2. Seed or sod the site when the system is completely covered to prevent erosion.

Pump Up Distribution Systems

In a pump up system, the effluent is pumped to a distribution box which receives a predetermined dosing volume of the effluent. It is then gravity fed to the leaching area and distributed to the rows or trenches within the leachfield. This design is commonly confused with a pressure dosed system because the two share much of the same equipment. The main difference between the two lies in the effluent is distributed within each trench. In a pressure dosed system, the effluent is distributed throughout the trench with a pressurized pipe. In a pump up system, the effluent is gravity fed as shown in the figure below.

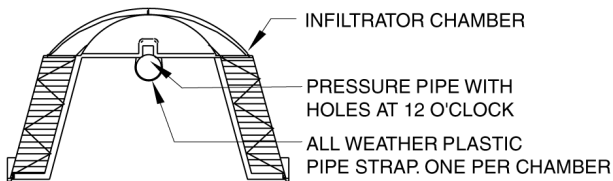


INSTALLATION INSTRUCTIONS

Low Pressure Distribution Systems

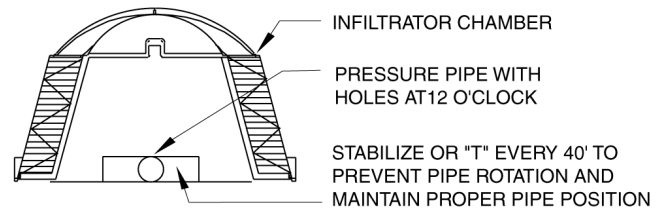
The designer is responsible for specifying the diameter pipe used, and the distribution orifice size and spacing, based upon pump size and the calculated head loss from pressurization.

METHOD A (EXAMPLE)

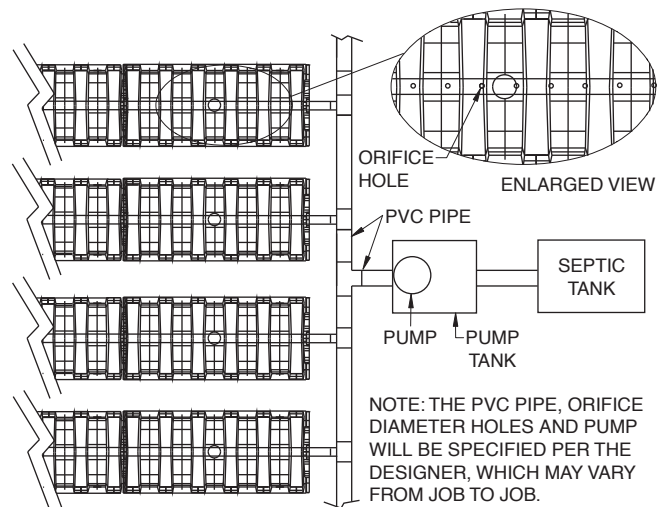


1. Use Schedule 40 pipe and fittings ranging from 1-1/4" to 2" (1-1/4" typical) as the discharge pipe to be suspended inside the chambers.
2. Connect piping to be used in the length of the field line by aligning the lettering on the pipe.
3. Drill specified holes at specified spacing along lettering to ensure a straight line. Mark the inlet end of the discharge pipe along lettering.
4. Cut the appropriately-sized hole at the proper elevation in the endcap for the pressure lateral pipe.
5. Insert the pressure lateral pipe into the hole in the endcap and slide it into the manifold pipe. Glue the pressure lateral pipe to the manifold pipe.
6. Attach the chamber for the endcap with the pressure lateral pipe through it.
7. Secure the pressure lateral pipe to the top of the first chamber with an all-weather plastic tie at the outlet end of the unit. This is done by sliding the strap up through one of the holes in the chamber top, down through the other hole, and cinching the two ends around the pipe.
8. Lift and place the next chamber into the previous one at a 45° angle. Line up the hook on the center end of this chamber, and lower it to the ground, engaging the patented interlocks.
9. Secure the lateral pipe to the top of this chamber once it is in place. Continue interlocking the chambers and pipe until the trench is completed.
10. Attach an endcap to the last chamber in the trench. If cleanout extensions are required, cut a hole in the endcap at the proper elevation, through which the lateral pipe will extend. A 90° elbow can then be added to the lateral pipe so that it can extend up to the surface for cleanout access.
11. Repeat steps for each field line.
12. Backfill according to instructions.

METHOD B (EXAMPLE)



1. Use Schedule 40 pipe and fittings ranging from 1-1/4" to 2" (1-1/4" typical) in diameter to be laid on the infiltrative surface underneath the chambers.
2. Connect piping to be used in the length of the field line by aligning the lettering on the pipe. The lettering should be facing upward. At every 40' section, connect the pipe using a 4-way cross fitting. These fittings will stabilize the discharge pipe when the pump is switched on. BE sure to cap off the sides of the fittings not being used and the end of the field line.
3. Drill specified holes at specified spacing along lettering to ensure a straight line. again, the holes must be facing upward.
4. Lay the pipe in the trench and begin connecting the chambers over the discharge pipe. The pipe should be centered under the chambers. Leave about 1' of pipe stemming from the inlet-end of the chamber for header connection.
5. Drill a hole to fit the diameter pipe being used through the inlet endcap. Attach both endcaps to the chamber line field.
6. Repeat steps 1-4 for each field line.
7. Connect header assembly.



INSTALLATION INSTRUCTIONS

Before You Begin

This section provides installation information for Infiltrator Chambers in cut and fill applications. These chambers may only be installed according to state and local regulations. If unsure of the installation requirements, contact your state or local regulators.

Like conventional systems, the soil and site conditions must be approved prior to installation. Be sure that a thorough site evaluation is conducted to determine the proper size and location of the system before proceeding with the installation.

Materials and Equipment Needed

- | | |
|---|---|
| <input type="checkbox"/> Infiltrator Chambers | <input type="checkbox"/> Shovel and Rake |
| <input type="checkbox"/> Endcaps | <input type="checkbox"/> Tape Measure |
| <input type="checkbox"/> 4" Pipe and Couplings | <input type="checkbox"/> Screw Gun* |
| <input type="checkbox"/> Splashplates | <input type="checkbox"/> Fill Material |
| <input type="checkbox"/> Glue | <input type="checkbox"/> Backhoe / Bulldozer |
| <input type="checkbox"/> Laser / Transit / 4' Level | <input type="checkbox"/> Hole Saw / Router Bit* |
| <input type="checkbox"/> Utility Knife | *Optional. |

These guidelines for construction machinery must be followed during installation.

- ☐ Always keep 6" of soil between tracks and chambers. Only drive across the trenches when necessary, and never drive down the length of them.
- ☐ Avoid direct contact with chambers when using construction equipment. Chambers require a 12-inch minimum of compacted cover to support a wheel load rating of 16,000 lbs/axle or equivalent to an H-10 AASHTO load rating.

Placing the Fill Material

1. Use a dozer or rubber-tire backhoe to evenly spread each 12" lift of the specified sand fill material over the required area.
 2. With a dozer or rubber-tire backhoe, run a single pass over each lift. Move across the bed at increments equal to the width of the tracks or tires.
 3. Place consecutive lifts following Steps 1 and 2 above until design elevation is achieved. The design elevation is the infiltrative surface or trench bottom.
- NOTE:** It is critical that the added material be densified to match the surround soil's natural compaction in order to prevent setting. Setting will occur in both aggregate and chamber systems if fill is not compacted equal to the natural surrounding soil.
4. Lightly drag a landscape rake over the final infiltrative surface to scarify the top 1/2 inch of the sand.

For the remainder of instructions, see "Attaching the End-caps" on page 12.

Excavating and Preparing the Site

1. From the plans, permit or field conditions, determine the depth of the restrictive layer and the amount of fill material needed to bring the trench bottom to its proper elevation.

NOTE: The fill material must meet the plan or state specifications for grain-size distribution. Fill is typically a well-graded coarse sand with no more than 10 percent passing the #200 sieve. The fills hold have a minimum 10 percent moisture content to aid compaction. Water may be added if required.

2. Stake out the location of the trenches and set the elevations of the tank, piping and trench bottom. Install sedimentation and erosion control barriers as necessary.
3. Excavate and level the trenches with the proper center-to-center separation. Be sure to dig through the restrictive layer to the more suitable soils as necessary.
4. Rake the bottom and sides if smearing has occurred while excavating. Verify that the trenches are approximately level using a transit, laser or 4' level.

WARRANTY

Alabama Limited Septic Warranty for Infiltrator Chambers

(a) The structural integrity of each Infiltrator chamber and end cap, when installed in accordance with manufacturer's instructions, is warranted to the original purchaser against defective materials and workmanship for two years from the date of purchase. Should a defect appear within the warranty period, purchaser must inform Infiltrator Water Technologies of the defect within fifteen (15) days. Infiltrator Water Technologies will supply a replacement chamber and/or end cap. Infiltrator Water Technologies' liability specifically excludes the cost of removal and/or installation of units.

(b) THE WARRANTY IN SUBPARAGRAPH (a) IS EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE CHAMBERS AND END CAPS, INCLUDING NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. THE WARRANTY DOES NOT EXTEND TO INCIDENTAL, CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES. THE COMPANY SHALL NOT BE LIABLE FOR PENALTIES OR LIQUIDATED DAMAGES, INCLUDING LOSS OF PRODUCTION AND PROFITS, LABOR AND MATERIALS, OVERHEAD COSTS, OR OTHER LOSS OR EXPENSE INCURRED BY PURCHASER. SPECIFICALLY EXCLUDED FROM 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 STRESSES GREATER THAN THOSE PRESCRIBED IN THE INSTALLATION INSTRUCTIONS; THE PLACEMENT BY PURCHASER OF IMPROPER MATERIALS INTO THE PURCHASER'S SYSTEM; OR ANY OTHER EVENT NOT CAUSED BY THE COMPANY. FURTHERMORE, IN NO EVENT SHALL THE COMPANY BE RESPONSIBLE FOR ANY LOSS OR DAMAGE TO THE PURCHASER, THE UNITS, OR ANY THIRD PARTY RESULTING FROM ITS INSTALLATION OR SHIPMENT. PURCHASER SHALL BE SOLELY RESPONSIBLE FOR ENSURING THAT THE INSTALLATION OF THE SYSTEM IS COMPLETED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, RULES, AND REGULATIONS.

(c) NO REPRESENTATIVE OF THE COMPANY HAS THE AUTHORITY TO CHANGE THIS WARRANTY IN ANY MANNER WHATSOEVER, OR TO EXTEND THIS WARRANTY. NO WARRANTY APPLIES TO ANY PARTY OTHER THAN TO THE ORIGINAL PURCHASER.

(d) All types of chamber systems must be installed in full compliance with the latest version of the product installation requirements. The system must be in full compliance with all aspects of the state regulations and codes.

Performance Warranty for Infiltrator Chambers and Endcaps

(a) Infiltrator warrants that each chamber and endcap manufactured by Infiltrator (collectively, the "Units"), when installed and operated in a leachfield of an onsite septic system of a single family residence in accordance with Infiltrator's instructions, for a period of two (2) years from the date of installation (i) shall be free from defective materials and workmanship; and (ii) shall perform in such a manner to absorb effluent within the design flow rate for the septic system containing the Units, so that there will be no sewage backup into the dwelling or structure which uses the septic system, or visible pooling of effluent around the system. The presence of such sewage backup or such visible pooling shall constitute a "failure" of the system. This Limited Warranty covers new permitted leachfield installations only, and does not cover repairs, extensions or additions to existing leachfields. This Limited Warranty extends only to the original purchasing contractor. For this Limited Warranty to apply, the Units must be installed in accordance with all necessary permits and in accordance with all site conditions required by state and local codes for the installation of gravel and pipe systems, and must be sized according to Infiltrator specifications and state, county and local requirements.

In order to exercise these Limited Warranty rights, the warranty holder must notify Infiltrator in writing at its corporate headquarters in Old Saybrook, Connecticut (address below) within fifteen (15) days of any alleged defect or failure. The notice shall be accompanied by (i) a letter from a state licensed septic tank contractor

or Professional engineer detailing cause of failure (ii) a copy of the appropriate permit and design for the septic system; and (iii) proof to Infiltrator's satisfaction that the septic tank has been pumped at least once every three (3) years since installation. Upon notification of a possible breach of warranty, Infiltrator may undertake an investigation of the circumstances of the possible breach. At its discretion, Infiltrator may perform tests to determine the cause of any breach and may hire a soil scientist or professional engineer or use Infiltrator personnel to evaluate soil conditions and otherwise assist in the investigation.

In the event that Infiltrator determines that there has been a breach of this Limited Warranty due to a failure, Infiltrator will, at its option, either: provide Units as it deems necessary to extend the size of the leachfield and a fee of \$12.50 per Unit toward the cost of installation; or provide an equivalent, state-approved solution to cure the breach. Infiltrator will not be responsible for pumps or any other necessary mechanical devices needed to extend or repair the leachfield following a failure, nor shall Infiltrator be liable for the addition of pump systems or underground water diversion systems, or repair or replacement of any landscape or irrigation systems, following a Failure.

In the event of any other breach of this Limited Warranty, Infiltrator will, at its option, either: provide replacement Units for Units determined by Infiltrator to be defective and a fee of \$12.50 per Unit toward the cost of installation; or provide an equivalent state-approved solution to cure the breach. Infiltrator's liability under this Standard Limited Warranty specifically excludes any other cost of removal and/or installation of the Units.

(b) THIS LIMITED WARRANTY AND THE REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES TO THE ORIGINAL PURCHASING CONTRACTOR 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 (chamber or end cap) 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 warranty holder or any third party. Specifically excluded from Limited Warranty coverage are damage to the Units due to Acts of God or natural disasters; 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 cover 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, improper specified backfill, 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 warranty holder fails to comply with all of the terms set forth in this Limited Warranty, including the information required by subparagraph (a).

Furthermore, in no event shall Infiltrator be responsible for any loss or damage to the warranty holder, the Units, or any third party resulting from installation (except as expressly set forth in subparagraph (a) or shipment, or from product liability claims of the warranty 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 written instructions.

(d) No representative of Infiltrator has the authority to change this Limited Warranty in any manner whatsoever, or to extend this Limited Warranty. No warranty applies to any party other than the original purchasing contractor.

Note: Any chamber systems constructed with less than our minimum sizing requirements will not be covered by any product warranties.

NOTE: In fine and very fine sands, loamy sand and sandy loam soils with low moisture content, it is at the contractor's discretion to cover the chambers with very fine filter cloth or paper prior to backfilling the system. Standard installation instructions apply.



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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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