



Health Care Services

Alameda County Environmental Health Meeting Sign-In Sheet

Chevron #9-7127; RO0000185
10 Grant Line Rd, Tracy, CA

Friday, December 19, 2014
11:00 AM

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DIETZ ENGINEERING AND CONSTRUCTION, INC.

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CONCEPT

SEPTIC SYSTEM

**10 S. Grant Line
Alameda County**

December 2014

10 S. Grant Line

Assumptions

- Water discharge to be less than 3500 GPD — *references*
- Not a sensitive area – nitrate loading not an issue
- No Dump Station – only domestic wastewater
- No food preparation – grease trap not required
- Site is a Tier 1
- Percolation test results acceptable — *Did we get these from Tim*
- Existing water and monitoring wells to be closed
- New well to be drilled with minimum 100 foot surface seal
- Dispersal system cover to be 12"
- Design GPD to be determined by review of Thornton and other similar operations
- Site soil conditions are acceptable for dispersal system
- New water well not considered a public water system
- Low flow (1.2 GPF) fixtures to be used

Site/Laboratory Testing – Required

- Percolation test
- Compaction test of site fill
- Permeability test
- Classification of fill soil

soil profile

Information needed from Alameda County Records

- Wells logs from monitoring wells or water well on site
- Location of previous septic system

Method of Establishing Waste Water Daily Flow Rate

1. Obtain available flow data (water usage) from existing JD Service Stations
2. Plot flow by month and register transactions per month
3. Estimate Design Flow for site at 10 S. Grant Line

Design Features

(Note option to be selected depends upon design daily effluent flow)

1. All Options

- Use concrete septic tanks
- Install effluent filter on septic tank discharge to lift station
- Use pressurized system for dispersal from lift station
- Dual pumps in lift station to be 0.5 HP each
- ~~Use rock filled seepage pits ~ 25 deep if sandy zone is present~~
- Use orifice shields
- Area to be fenced to prevent vehicle traffic

2. Leach field option

- Leach lines 3 feet wide, 12 feet on center, maximum 100 feet long
- Use Infiltrator units (see picture) with stakes and 1 1/2 " PVC Schedule 40 pressure pipe
- Soil cover to be 12"

3. Filter Bed option

- Total depth of drain rock to be 18" with pressure pipes located 12" above bottom of excavation
- Total depth of excavation 30"
- Pressure pipes to be 1 1/2 " PVC Schedule 40 with 1/4" orifices five feet on center

- Area of filter bed to be based on soil type, percolation rate and daily effluent rate

Attachments

- Infiltrator
- Orifice shield
- Site Plan

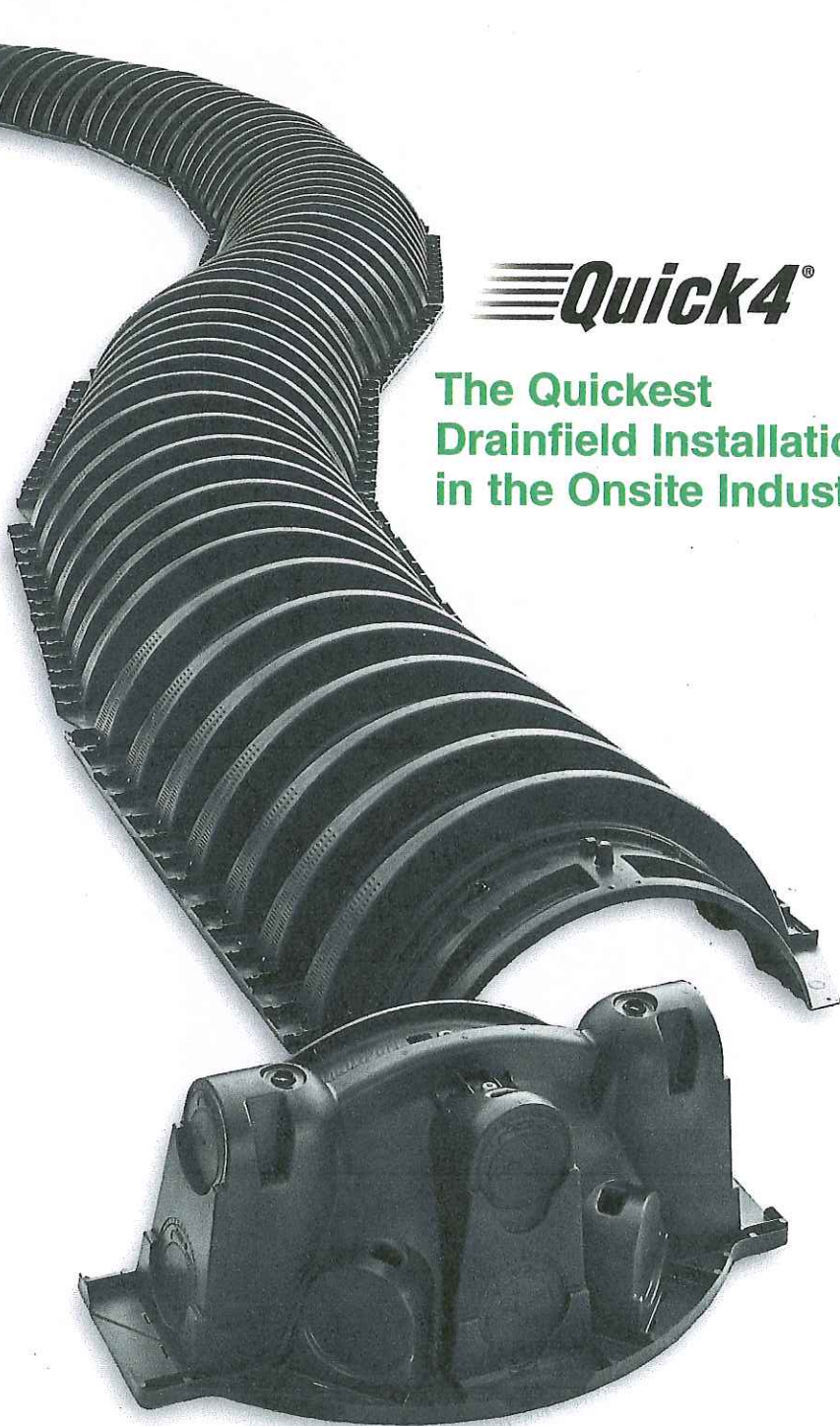
INFILTRATOR Chamber Systems

Product Catalog



Quick4[®]

The Quickest
Drainfield Installation
in the Onsite Industry.



INFILTRATOR[®]
SYSTEMS INC
Environmental Onsite Wastewater Solutions™

Infiltrator® Quick4® Product Line

Quick4® High Capacity Chamber

The Quick4 High Capacity Chamber can be installed in a 36-inch wide trench. The Contour Swivel Connection™ allows the chamber to swivel 10 degrees, left or right.

Size (W x L x H)34" x 53" x 16" (86 cm x 135 cm x 41 cm)
Effective Length48" (122 cm)



Quick4® High Capacity MultiPort™ End Cap

The MultiPort End Cap with its eight molded-in high and low inlets allows piping to enter or exit the system from multiple directions and eliminates pipe fittings.

Size (W x L x H)34" x 19" x 16" (85 cm x 48 cm x 41 cm)
Additional Length per Trench2.4 ft (71.1 cm)
Invert Height11.5" (29 cm)



Quick4® Standard Chamber

The Quick4 Standard Chamber can be installed in a 36-inch wide trench. The Contour Swivel Connection™ allows the chamber to swivel 10 degrees, left or right.

Size (W x L x H)34" x 53" x 12" (85 cm x 135 cm x 31 cm)
Effective Length48" (122 cm)



Quick4® Standard MultiPort™ End Cap

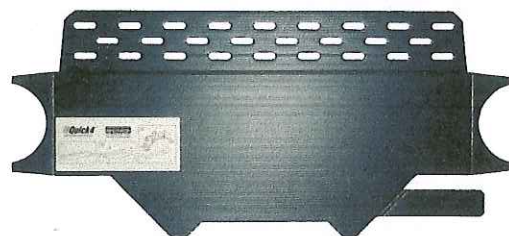
The MultiPort End Cap with its eight molded-in high and low inlets allows piping to enter or exit the system from multiple directions and eliminates pipe fittings.

Size (W x L x H)34" x 16" x 12" (85 cm x 41 cm x 31 cm)
Additional Length per Trench.....2.2 ft (66 cm)
Invert Height8" (20 cm)



High Flow Splash Plate

The High Flow Splash Plate is designed for use with the Quick4 Standard Chamber's MultiPort End Cap and is intended for use with a pump system to prevent soil erosion below the invert.



Quick4® Equalizer® 36 Chamber

The Quick4 Equalizer 36 chamber can be installed in a 24-inch wide trench. The Contour Swivel Connection™ allows the chamber to swivel 15 degrees, left or right.

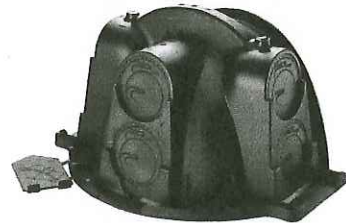
Size (W x L x H)22" x 53" x 12" (56 cm x 135 cm x 31 cm)
 Effective Length48" (122 cm)



Quick4® Equalizer® 36 MultiPort™ End Cap

The MultiPort End Cap with its six molded-in high and low inlets allows piping to enter or exit the system from multiple directions and eliminates pipe fittings.

Size (W x L x H)22" x 18" x 12" (56 cm x 46 cm x 31 cm)
 Additional Length per Trench.....2.1 ft (64 cm)
 Invert Height6" (15 cm)



Quick4® Equalizer® 24 Chamber

The Quick4 Equalizer 24 chamber can be installed in a 18-inch wide trench. The Contour Swivel Connection™ allows the chamber to swivel 15 degrees, left or right.

Size (W x L x H)16" x 53" x 11" (41 cm x 135 cm x 28 cm)
 Effective Length48" (122 cm)



Quick4® Equalizer® 24 MultiPort™ End Cap

The MultiPort End Cap with its six molded-in high and low inlets allows piping to enter or exit the system from multiple directions and eliminates pipe fittings.

Size (W x L x H)16" x 14" x 12" (41 cm x 36 cm x 31 cm)
 Additional Length per Trench.....1.88 ft (57 cm)
 Invert Height6" (15 cm)



MultiPort Invert Adapter

The MultiPort Invert Adapter is designed for use with the Quick4 Equalizer 24 and Quick4 Equalizer 36 MultiPort End Caps. The unit allows for a change in invert height from 6" (15 cm) to either 9" (23 cm) or 10" (25 cm), and easily fits into the top inlet/outlets of the end caps.



Pressure Dosing Pipe Support

The Pressure Dosing Pipe Support allows you to construct a pressure manifold above the trench bottom, perform head tests, and complete a trench installation with minimal to no disruption of the trench infiltrative surface.



Orifice Shields

Submittal
Data Sheet



Applications

Oranco Orifice Shields are used in a pressurized distribution system to protect the orifices from backfill debris that might cause orifice blockage.

General

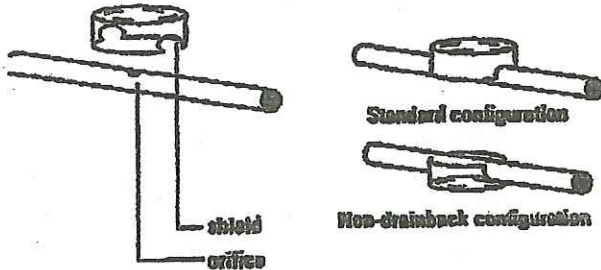
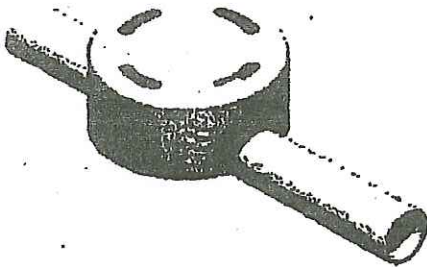
Oranco Orifice Shields snap-fit onto laterals. Orifice shields are covered by method-of-use patent no. 5,360,566.

Standard Models

OS075, OS100, OS125,
OS150, OS200

Nomenclature

OSXXX
└─ indicates the corresponding lateral size (in.)



(Oranco orifice shields may be placed on top of or beneath a lateral, depending on the location of the orifice)

Specifications

Dimensions

Model	OS075	OS100	OS125	OS150	OS200
Shield O.D. (in.)	35	35	35	45	45
Distribution Pipe O.D. (in.)	1.05	1.315	1.65	1.90	2.375

Materials of Construction:

PVC (polyvinylchloride) per ASTM D-1784