

# Draining Landscapes

The simple and cost-effective solution to landscape drainage problems



## Typical Landscape Installation

### Equipment Recommend:

- four inch chain trencher and/or trenching spad
- wheel barrow and/or turf utility vehicle
- utility knife
- laser level (optional)
- PVC water-proof tape
- centering device(s) (optional)

### Supplies Recommend:

- appropriate size of Multi-Flow pipe for collector system
- connectors and fittings
- clean, very coarse, sand
- PVC or ABS pipe for transport system



Maintaining slope during trenching is essential.



The filter is taped to the fittings to prevent sand or soil from intruding.



A four inch wide trench means minimal surface disruption.



Hold the Multi-Flow in the center of the trench so that backfill can be inserted on both sides.

### Procedure:

#### Trenching:

- Plot a path through the problem area to the discharge point marking the path with paint or flags. The discharge point can be a ditch, the street, a catch basin, another drain line or a declining hillside. Contact all local utilities to locate underground lines. Begin trenching at the lowest point of the problem area and proceed toward the highest point. Stop periodically to ensure that proper grade is being maintained. A laser level is a helpful tool at this stage. Remove all excavated material from the site.

#### Laying out your drain:

- Roll out your Multi-Flow along side your trench. At the ends, pull back the geo-textile filter and snap the connectors in place. They slip on more easily if you pre-stretch them. Push connectors, such as end caps, couplers, side outlets or end outlets, firmly over the pipe to ensure a secure fit. Then pull the fabric over the connector and hold it in place with 2-inch PVC tape. This ensures that soil will not enter behind the fabric and block the drain core. Do not set Multi-Flow into standing water. This may contaminate the geo-textile filter before the sand backfill is in place.

#### Connecting to transport system:

- PVC or ABS pipes make for the most reliable transport system. Three-inch pipe is used with six-inch Multi-Flow; four-inch pipe is used with 12 and 18-inch Multi-Flow.
  - Frequently Multi-Flow is best connected to the transport system using a multi-purpose connector. These connectors empty from the bottom. A standard PVC or ABS elbow or T can be slipped over the multi-purpose connector. Pipe cement will ensure a lasting connection.
  - In other situations it is best to discharge the water through an end outlet or side outlet. In this case, cut the plastic membrane covering the opening of the outlet. Cut the hole so that the exit pipe fits snugly and is located at the bottom of the fitting. Insert the exit pipe into the opening and secure it in place using 2-inch PVC tape.

#### Backfilling:

- Use clean very coarse sand to fill the trench. This can be topped off with topsoil. Never cap the trench with clay or other dense material.



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### Overview of Company

Varicore Technologies has been providing drainage products like Multi-Flow, drainage product testing equipment, and drainage design assistance for over 25 years. Give us a call at 800.978.8007 or check us out online at [www.multi-flow.com](http://www.multi-flow.com).

**MULTIFLOW**

**TITAN**