

## STORMFILTER™

The StormFilter is the leading stormwater treatment technology. It is a passive, flow-through stormwater filtration system consisting

of a concrete vault that houses rechargeable cartridges filled with a variety of filter media. The StormFilter works by passing stormwater through media-filled cartridges, which trap particulates and adsorb pollutants such as dissolved metals, nutrients, and hydrocarbons. The StormFilter is offered in four different configurations: cast-in-place, precast, linear, and catch basin. The precast, linear and catch basin models use pre-manufactured vaults to ease the design and installation process. The cast-in-place units are customized for larger flows and may be either uncovered or covered underground units.

### APPLICATIONS

The StormFilter excels in a wide variety of applications and is being used to treat stormwater runoff in a wide variety of sites throughout the United States. For jurisdictional authorities, the system offers high levels of pollutant removal and improved water quality. For developers, the StormFilter is cost-effective, easy to install and uses no additional land (entirely underground). For engineers, full design support, provided by Stormwater Management at no extra cost, is invaluable. These benefits, coupled with unsurpassed versatility, make StormFilter the best long-term solution for stormwater treatment.

#### TYPICAL DEVELOPMENT APPLICATIONS:

- Parking lots
- Commercial and Industrial sites
- High-density and single-family housing
- Maintenance, transportation and port facilities

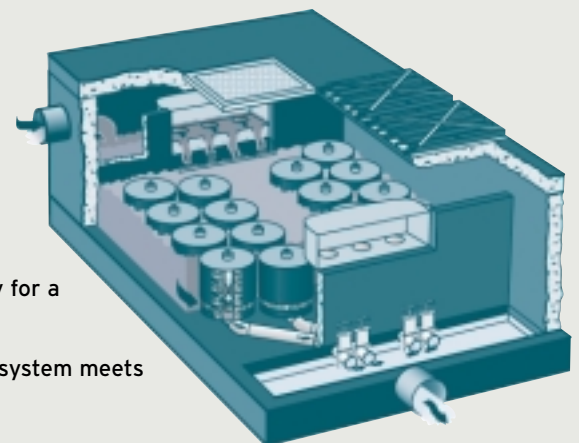
#### TYPICAL ROADWAY APPLICATIONS:

- Arterial roads
- Freeways
- Bridge decks
- Light rail and transit facilities

For specialized applications, laboratory evaluation of the water is normally required to establish the operational parameters. Stormwater Management can perform these studies through its outstanding Research and Development department.

### DESIGN CRITERIA

The StormFilter is approved as a Best Management Practice (BMP) with many agencies throughout the United States. Regulatory requirements for designing BMPs vary from state to state, and may be based on a water quality flow rate determined from a design storm, a water quality volume, or removal efficiency for a target pollutant. Stormwater Management will help you work with your local governing agency to ensure that your StormFilter system meets their requirements.





## SYSTEM SIZING AND HYDRAULIC DROP

System sizing is determined by analyzing data from either volume-based or flow-based design, depending on which criterion is required by the relevant jurisdiction. Whichever design base is required, Stormwater Management engineers will work with you to determine the optimum number of cartridges and vault size. The StormFilter typically requires 2.3 feet of head differential between the inlet and the outlet. Please fill out the project information sheet contained in this package and fax it to Stormwater Management for a size evaluation and cost estimation.

## PRETREATMENT AND BYPASSING

Stormwater Management evaluates the need for pretreatment devices for each site. The StormFilter typically does not require pretreatment, but if pretreatment is needed the following devices may be used: sedimentation vaults, manholes, oil/water separators, detention/sedimentation tanks or ponds. Stormwater

Management can provide recommendations on the need for and size of these facilities. Depending on individual site characteristics, some systems should be equipped with a StormGate™ high-flow bypass. The StormGate is used when the peak storm event generates a flow that exceeds the overflow capacity or design capacity of the StormFilter.

## CONSTRUCTION AND INSTALLATION

Stormwater Management provides the precast StormFilter to the end user as a complete system. The StormFilter is typically delivered to the project site in two separate shipments. The precast vault is first delivered to the site by the local precaster. Once the project is near completion, the site is paved, landscaping is complete and the storm drains are clean, filter cartridges are delivered for installation in the vault. The filter cartridges can be installed by the on-site contractor or Stormwater Management.

