

**PRIMARY USE:** Treatment of pollutants in stormwater runoff from parking lots.

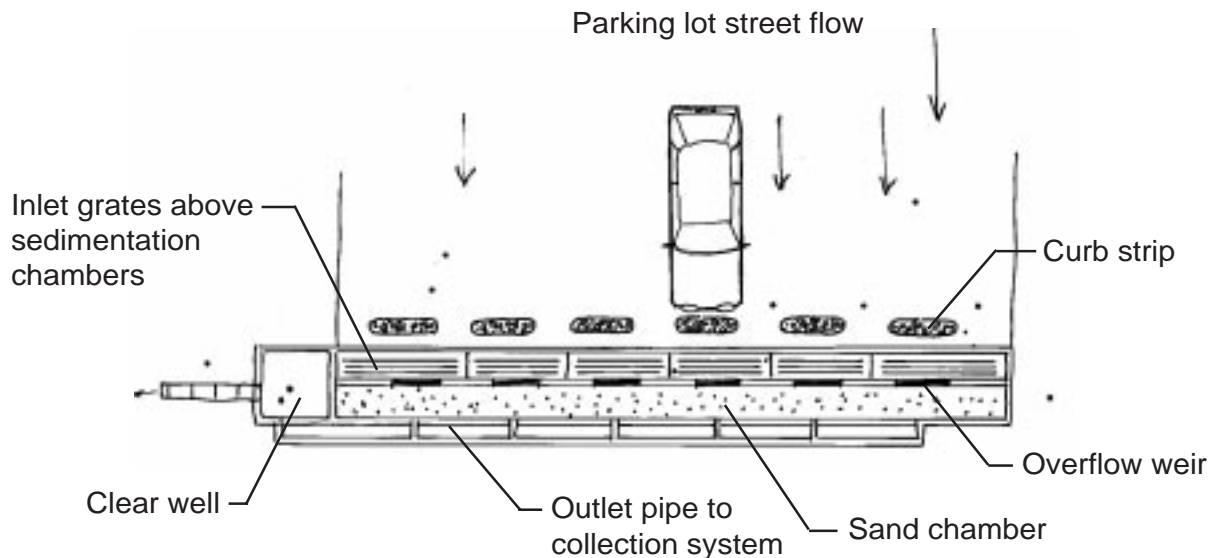
**ADDITIONAL USES:** Stormwater treatment of impermeable surface areas similar to parking lots.

## PERIMETER SAND FILTER

**What is it?** The perimeter sand filter is comprised of two parallel chambers located at the edges of parking lots. Runoff enters a wet pool in the first chamber where pretreatment occurs prior to its entering the second chamber. Sand in the second chamber provides a medium for filtration of pollutants. Also known as the "Delaware" sand filter.

### Purpose

This sand filter provides a suitable means of treating stormwater runoff in parking lots and similar expanses of impervious surfaces.



**Perimeter Sand Filter  
Plan View**

### Limitations

Excessive runoff during storm periods is temporarily ponded above normal pool and sand layers. Permeability of sand may decrease with time; therefore, maintenance is required.

### Materials

Inlet grates, piping suitable for inlets and outlets, sand, pea gravel, filter fabric, concrete.

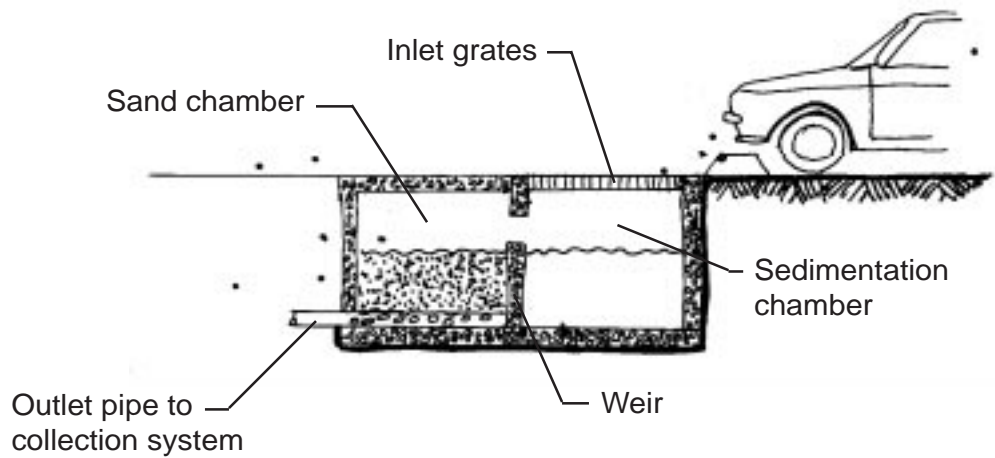
### Installation

Construction is relatively intensive. An adequate and protected outflow point must be available for treated runoff.

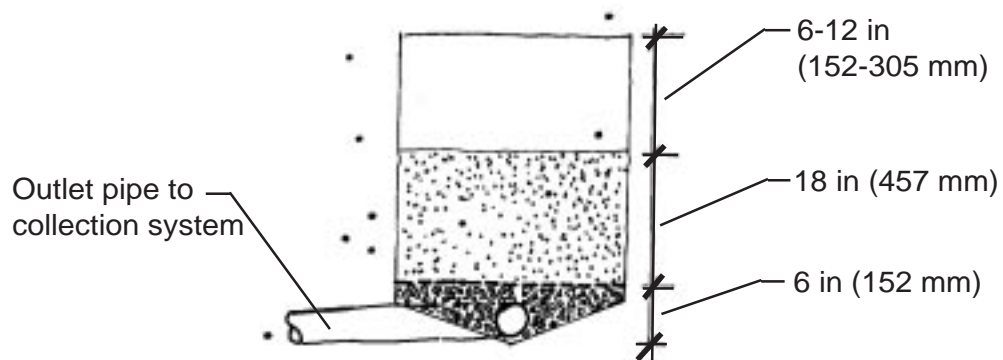
**Source:** Design for Stormwater Filtering Systems, Center for Watershed Protection.

## PERIMETER SAND FILTER

### Additional Drawings:



**Perimeter Sand Filter  
Section View**



**Perimeter Sand Filter  
Section View**