

# Project Profile



## PROJECT INFO:

NAME: Pentagon Secure Bypass/  
Washington D.C.

TYPE: Government- Federal

INSTALLATION DATE: January 2007

SYSTEM CONFIGURATION:

- (7) 12x6
- (4) 6x6



Filterra installations along the secure bypass at the U.S. Pentagon met local stormwater quality regulations, protecting the Potomac River and Chesapeake Bay watershed.

## Highlights:

After September 11 the U.S. Pentagon needed to relocate access drives further away from the Pentagon complex. This relocation created even more pressure on already tight parking resources.

In addition, the U.S. Department of Defense wanted to adhere to local regulations for this retrofit construction, including proper stormwater quality treatment for the Potomac River watershed. High-level Pentagon officials were closely involved in all aspects of this project, and Filterra was chosen as the proprietary BMP for this application.

## Challenge:

Parking for a large complex along with the high cost of real estate near Washington D.C. left minimal space for auxiliary systems such as stormwater treatment. In addition, the Potomac River and Chesapeake Bay watershed have stringent requirements for stormwater quality treatment.

## Solution:

Pentagon officials recognized the unique minimal space requirements for Filterra. Buildable space was maximized by positioning Filterra within curb easements.

With Virginia Department of Conservation and Recreation allowing up to 74% Total Phosphorus removal, Filterra provided the most efficient proprietary BMP available and helped meet federal, state and local stormwater quality requirements.



Filterra units placed within the roadways increased buildable space to maximize parking.

## Pentagon Secure Bypass/ Washington D.C.

### DESIGN DETAILS:

11 Filterra units were installed in the roadways of the new Secure Bypass, with traditional curb inlet bypass.

Predominantly cross-linear flow was established. Most rainfall is designated to run along the curb, first into the Filterra then to the bypass.

Sizing was done to the standard Virginia ratio of 0.33% Filter area/Drainage Area (FA/DA).

Grading placed the Filterra units slightly above their corresponding bypass structure.

### More Project Details:

Increase buildable space in urban retrofits.

Filterra offers a compact "green" solution that adds beauty and value to the urban landscape.

Maintenance is safe, simple and inexpensive.

A standard maintenance agreement is included with every purchase.

Our staff is available to assist you with all of your project requirements



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