

#### WHAT IS A BIORETENTION?

A bioretention cell is a medium to large scale Best Management Practice (BMP) that captures and treats stormwater runoff from buildings, roads or parking lots. A bioretention cell reduces stormwater runoff volume and can treat up to 5 acres of impervious area.

Stormwater runoff first enters a pre-treatment area where leaves, coarse sediments and other floating materials are captured.



Engineered soil and plants remove contaminants such as nitrogen, phosphorus and sediment.



Plants in bioretention cells include native species that are adaptable to both wet and dry soil conditions.

Runoff is filtered through plants and an engineered soil where the water infiltrates into the ground or discharges to the storm drain system.



Bioretention with fore-bay



Bioretention planting with seasonal interest

Photos courtesy of Stormwater Maintenance, LLC.

## THE CONSTRUCTION PROCESS

Step One	Step Two	Step Three	Step Four
identify ✓ Identify appropriate sites based on selection criteria.	design ✓ Perform a site survey. ✓ Design the bioretention facility.	construct ✓ Install all erosion and sediment control devices before construction begins.	inspect ✓ Have a third party inspect and approve the bioretention after construction is complete.
stakeholders including property owners,	✓ Obtain necessary permits.	<ul> <li>Excavate and construct the facility.</li> </ul>	✓ Remove all erosion and sediment control devices.
residents and communities.	☑ Inform nearby residents before construction begins.	✓ Stabilize the disturbed area with seed or groundcover.	Return on a regular basis to ensure that the bioretention cell functions properly.







# PERMEABLE PAVEMENT Lact sheet

### WHAT IS PERMEABLE PAVEMENT?

Permeable pavement is an alternative to conventional pavement systems that treats stormwater runoff. The pavement surface allows stormwater to flow through to a gravel storage area underneath. The stormwater infiltrates into the ground or discharges to the storm drain system by an underdrain. Permeable pavement can be found in different applications such as parking spaces, alleys, sidewalks or pedestrian plaza areas.





Permeable pavement for on-street parking



Permeable pavement in a parking lot

Photos courtesy of Stormwater Maintenance, LLC. (left) and Low Impact Development Center (right)

Step One	Step Two	Step Three	Step Four
identify ✓ Identify appropriate sites based on selection criteria. ✓ Coordinate with stakeholders including property owners, residents and communities.	<ul> <li>design</li> <li>Perform a site survey.</li> <li>Design the permeable pavement facility.</li> <li>Obtain necessary permits.</li> <li>Inform nearby residents before construction begins.</li> </ul>	Construct         ✓ Place all erosion and sediment control devices before construction begins.         ✓ Excavate and construct the facility.         ✓ Stabilize the disturbed area with seed or groundcover.	<ul> <li>inspect</li> <li>Have a third party inspect and approve the permeable pavement after construction is complete.</li> <li>Remove all erosion and sediment control devices.</li> <li>Return on a regular basis to ensure that the permeable pavement functions properly.</li> </ul>

### THE CONSTRUCTION PROCESS



