Green Street

A streetscape renovation project turned Lake Street, between Magnolia Blvd. and Olive Ave., into a Green Street – a showcase of five new storm water management systems.

Permeable Pavers & Gravel Reservoir: Along the improved sidewalk, permeable pavers allow for water to filter through the joints and into underground cells filled with planting soil. This allows for additional spaces for roots from the adjacent street trees to expand and thrive.

Silva Cell System: Silva Cell for trees create an underground frame that can bear traffic loads and offers ample root space that allows urban trees to grow into large and beautiful specimens.

Kristar Tree Pod System: This item is a tree box that serves the important function of filtering out ultra-fine and dissolved pollutants that are normally found in stormwater runoff.
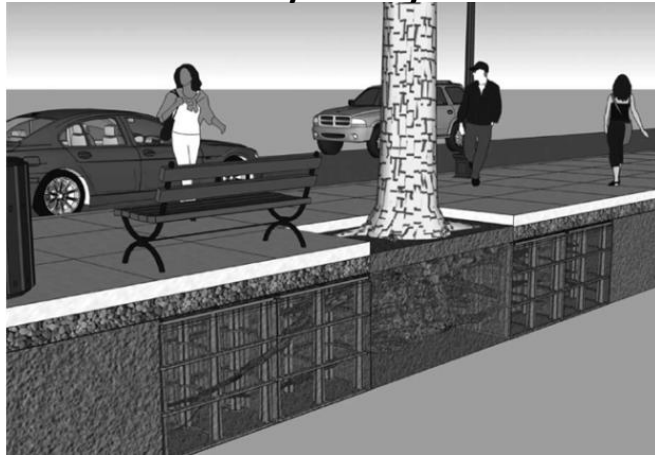
Green Street

In tight urban areas, BWP's Green Street demonstrates that an eight foot wide sidewalk can not only be beautiful and pedestrian friendly, but can be a place for cleaning and infiltrating our storm water run-off from our streets.

Silva Cell System
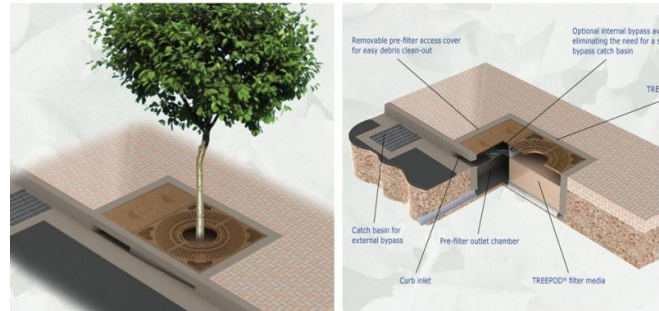
Kristar Tree Pod System System

Infiltration Planter Bump-Outs:

As storm water flows down the street, it is diverted into flow-through planters – in which the plants have been carefully selected to tolerate both winter rains and summer droughts.

Filtration Planters at Open Space: These planters are structural landscaped reservoirs used to collect, filter, and/or infiltrate stormwater runoff, allowing pollutants to settle and filter out as the water percolates through the planter soil before infiltrating into the ground.

These five stormwater capture systems work together to help BWP achieve our goal of a zero runoff campus where all stormwater falling on the campus is percolated back into the aquifer.

All landscaping on the BWP campus is done with recycled water and all campus area lighting will be changed to LED (light emitting diode) technology, the most energy efficient lighting available.

Capturing rain water on Lake Street

CITY OF BURBANK
Water and Power
Since 1913
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3 PERMEABLE PAVERS

STORM WATER FLOW

STREET CROWN

1

4

2

5 5

CLEAN WATER OVER FLOW

LAKE STREET

1 **Infiltration Planter Bump-Outs** - Lake Street is crowned at the street's center pushing storm water toward the curb joining water flowing from Magnolia to Olive. Water then fills the planter bump-outs for the vegetation to remove pollutants. The water now has time to percolate down, as the soil allows, recharging the groundwater aquifers.

2 **Flow-through Filtration Planters** - Rain and storm water runoff is cleaned through a series of vegetative and soil layers before the water percolates down to the aquifers.

3 **Permeable Pavers** - Storm water is captured through the pavers into the sub grade, reducing runoff while recharging groundwater aquifers.

4 **Silva Cell System** - Water from permeable pavers filters down to the cell space under the sidewalk where adjacent tree roots are able to expand and thrive.

5 **Tree Pod Biofilters** - Concrete boxes capture storm water that enters via a curb inlet, nourishing the street tree with deep watering.

STREET CROWNS AND SLOPES TO CURB

1

2

3 PAVERS

5 TREE GRATE

TREEPOD Biofilter CURB

4 SILVA CELLS