

Constitution Street Porous Pavement Parking Lot

project description | sustainable design

location

Georgetown, Kentucky

client

City of Georgetown

completion date

Spring 2005

budget

\$100,000



LEED Credit Opportunities

SS Credit	1.0
SS Credit	2.0
SS Credit	6.1
SS Credit	6.2
SS Credit	7.1
WE Credit	1.1
WE Credit	1.2
WE Credit	2.0

A porous pavement system as well as an underground detention basin was utilized to slow down the water, but it was no simple task. The site had slopes up to 12% which proved to be a challenge not only with the underground detention by limiting the storage volume, but also in the placement of the porous asphalt over the crushed stone. The underground storage system is four feet deep over a 7500 square feet area. It contained two weirs within the volume of crushed stone to further slow the water. The outflow pipe has a 4" orifice plate to control the release of the stored water. The water from the impervious pavement was conveyed to the underground system as well.

A few minor changes occurred during the construction process. The project was completed during the time scheduled. The finished installation offered pragmatic storm water management within aesthetically pleasing context. It has already proven itself effective in controlling the run off.



project components

- Redesign of Existing Parking Lot
- Porous Pavement System
- Underground Storm Water Storage