



Tour Guide – Bus Loop Bioretention Planters

A series of seven curbside bioretention planters were constructed along the Bus Loop (old Capitol Street) to the north of the Capitol grounds. These planters are constructed in two groups. The planters in each group operate in series to capture stormwater runoff from the adjacent walkways and pavement

In order to take advantage of the excellent infiltration capacities of the underlying soils, 33,000 gallons of sump storage is installed under the planters. The design of these planters captures runoff from the gutters until the planter is full (~ 6"-9" deep). Beyond this point, gutter flow will bypass the full planter and continue to the next planter. A strip of high-flow infiltration pavers at the end of each planter increases the overall stormwater capture and infiltration. The combined annual runoff reduction from these walkways is approximately 750,000 gallons.



Design Information:

- Planter Area: 22'-6"x 3'
- 48" Stone Drainage Layer
- 33,000 gal. Modular Plastic Storage
- 6" Underdrain (40" from bottom of excavation)
- Drainage Area is Approximately 56,000 SF



More Information:

Chris Sonne, PE, Project Designer
Civil & Environmental Services, LLC
(434) 361-1443 • chris@sustainable-sites.com
www.sustainable-sites.com

