

# Carroll County Farm Museum

## Environmental Side Design Practices

### **Background:**

The Farm Museum is County-owned property located at 500 South Center Street in Westminster. The mission of the property is to preserve local agricultural heritage and to educate the public on the history of the natural and agricultural resources of Carroll County. The property's stormwater management infrastructure was undersized and there were erosion and channelization issues on site. The ultimate goal of the project was to restore the Farm Museum's natural resources by improving water quality in the watershed, providing runoff storage and infiltration, alleviating flooding, increasing the stream buffer, and enhancing the natural habitat.

### **Scope of Work:**

The project which is located in the Double Pipe Creek Watershed was designed by CLSI, Inc. Design was supported by a grant from the Chesapeake Bay Trust. Environmental Site Design (ESD) practices were planned to address stormwater management on impervious areas which were not being treated by a stormwater management facility. The ESD practices designed included: a bio-filtration facility, drywell, rain barrel, landscape infiltration, and rain garden.

The County received \$150,000 from the National Fish and Wildlife Foundation Small Watershed Grant to assist in the construction of this project.

### **Sequence of Construction:**

Construction of the ESD practices was awarded to Stambaugh's Inc. and was completed in early 2017. In April of 2017 the Outdoor School students were involved in an educational Earth Day Program hosted by the Bureau of Resource Management. During this celebration, students planted trees in the stream buffer and herbaceous materials in the bio-retention facility. A contractor completed the remaining plantings and educational signage was posted at each of the facilities.

The ESD practices will demonstrate low-impact stormwater management techniques to Farm Museum visitors.

### **Project Details:**

Watershed:	Double Pipe Creek
Drainage Area:	20 acres
Impervious Surface Treated:	4 acres
Costs: Engineering	\$ 41,895.00
Construction	\$264,735.00
Time Frame:	30 Months

### **Submitted By:**

Kelly Martin  
Watershed Grants Technician





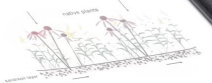






### Rain Garden 6

**Description:** This garden is designed to capture and filter runoff from the adjacent building's roof. It features a variety of native plants that help absorb and filter pollutants from the water. The garden is located in a shaded area, which helps to reduce evaporation and maintain soil moisture.



**Maintenance:** Regular maintenance is required to ensure the garden's effectiveness. This includes removing weeds, mulch, and debris. The garden should be inspected regularly for signs of erosion or waterlogging.

**More Info & Help:** For more information on rain gardens, visit the NFWF website or contact your local extension office.

