

CASE STUDY

Stormwater Detention

Dublin, VA

ENGINEER

ZMM Architects & Engineers, Blacksburg, VA

CONTRACTOR

Sowers Construction, Cana, VA

INSTALLATION DATE

July 2021

PRODUCTS

1,700 MC-4500 StormTech® Chambers
2,743 m (9,000') of N-12® HDPE pipe
30 ADS Nyloplast® Curb Inlets
3 ADS Barracuda® Stormwater Separator
1 BaySeparator® Stormwater Treatment System

DESCRIPTION

In order to help clients meet the Virginia Department of Environmental Quality's regulations for stormwater, various ADS products were used on a project that could handle nearly 11 million liters (2.5 million gallons) of water.

Four beds of StormTech MC-4500 detention chambers were installed to handle the stormwater storage. The chambers also provided stormwater quality as StormTech Isolator® Row was utilized for removal of total suspended solids.

For pretreatment of the stormwater, each chamber unit was equipped with a Barracuda hydrodynamic separator. A BaySeparator water quality unit was placed upstream for addition stormwater treatment. Nyloplast curb inlets captured the stormwater and N-12 water tight pipe was used to convey stormwater. Nyloplast and N-12 have water tight connections, which were used because of seepage concerns.



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