



DC WATER - DC CLEAN RIVERS ROCK CREEK PROJECT A
Washington, DC

WHY THIS PROJECT IS RELEVANT

- Congested Urban Area
- Community Outreach
- Green Infrastructure
- Permeable Pavement
- Bioretention
- MOT
- On Time and Within Budget
- Phased Project

Delivery Method

Design-Build

Project Size

95,500 SF

Initial/Final Cost

\$22,104,207/\$19,624,458

Completion Date

December 2019

Design Team

AKRF-Nitsch, LLC

Reference

Seth Charde

Rock Creek Project A was the first Green Infrastructure (GI) project undertaken by the DC Clean Rivers Project to comply with the consent decree addressing the emptying of the Combined Sewer Overflows (CSOs) into the surrounding rivers. The project significantly reduced the level of pollution to Rock Creek during heavy rain events by reducing stormwater runoff over a 24- 48 period. The construction of these innovative technologies not only manage stormwater but contribute to making the streets a more welcoming place.

The project consisted of 77 GI facilities and 2 parks with 8 permeable pavement parking (PPP) lanes, 36 bioretention planters (PBR), 2 curb (CBR) extension bioretentions, and 31 alley permeable pavement (APP) facilities. Each of these facilities consisted of a geosynthetic lining, 6” Underdrain system, and stone layers. The PBRs and CBRs were topped off with BSM and landscaping, while the APPs had permeable pavers and the PPPs had porous asphalt. In total, over 20,000 tons of double washed stone was utilized in construction and at the height of construction, as many as 12 crews were onsite to ensure timely completion of the project.

Due to the project location within a residential area, and the heavy foot and vehicular traffic, the project was phased to limit traffic impacts and the project team provided DC Water a dedicated public outreach team to support their communication efforts, including staffing a 24/7 project hotline for client concerns.

Throughout the project, Anchor focused on providing solutions to address existing and unforeseen conditions including street light cable relocation, assistance in redesigning the wall of PBR 3503 to accommodate a previously unknown communication conduit, and redesigning the proposed facility into a split configuration and relocating the underdrain system to run beside an unknown Pepco vault that was located in the middle of the proposed facility location.

