

Piscataway Basin TO #43 - WSSC - Chemical Grouting and Manhole Rehab

Fort Washington, MD.

Chemical grouting of manholes on and off-road, installation of manhole frame and covers, cementitious lining and epoxy.

Completion Date: Current

The primary purpose of this project was to stop infiltration of ground water into manholes through cracks in the aging brick manholes and concrete precast joints where rubber gaskets have failed. Over 2,000 gallons of chemical grout were pumped on this project. To apply the grout, we drilled through the manhole and pumped chemical grout behind the exterior wall of the manhole where it reacts quickly with existing ground water. This reaction creates a cured grout that is flexible and stabilizes the surrounding soil and functions as a water barrier. Also, this project has over 350 VF of cementitious lining. The cementitious lining functions to provide a water barrier and add structural integrity to the manhole. Chimney seals (75 EA) were installed on manholes throughout the project, we used a flexible epoxy that stopped infiltration and moved with the frame and cover throughout the year as temperatures fluctuate. About 75% of the work occurred on road while the rest occurred off-road, where access was limited by foot, sometimes crews had to walk 1,200 LF into the woods to complete work.

