



WSSC - LANHAM STATION WATER MAIN PIPE BURSTING

Lanham, MD

WHY THIS PROJECT IS RELEVANT

- On Time and Within Budget Despite Client Delays
- Phased Project
- Pipe Bursting and Open Cut
- Fire Hydrant Replacement
- Close Collaboration with Client to Overcome Challenges

Delivery Method
Bid-Build

Project Size
9,000 LF of above ground pipe

Initial/Final Construction Cost
2,915,798/3,609,474
Owner Initiated Change Orders

Anticipated Completion Date
August 2020

Reference
Collins Njoku

The Lanham Station project was the pilot pipe bursting project for WSSC and was undertaken as a means to test the constructibility and financial impacts of pipebursting in comparison to traditional open cut construction. The three phase project entailed water main replacement utilizing TT Technologies Grundoburst Static Pipe Bursting System. Anchor Teams are specially trained in the Grundoburst System and installed in excess of over 20,000 linear feet of various pipe over the past decade. Additional work under the contract included replacing the water service from the main to meter, as well as fire hydrants located within the project location.

In addition to the pipe bursting, open cut was utilized at certain junctures of construction due to unforeseen conditions and the significant bends and turns not clearly identified in initial plans. To address this issue, Anchor developed a plan that identified those turns and bends and collaborated with WSSC to receive a variance to open cut in those areas.

A key to the project was maintaining the above ground bypass which included up to 9,000 feet of pipe during key construction periods in a heavily congested residential area—which required emergency repairs to be done during 24/7 during off peak hours when possible.

In addition to the regular challenges of a project such as this, the project was one of the first impacted by COVID-19. In one instance, work on Whitfield Chapel Road during Phase 3 was delayed as the work required shutdown on a 12" main that involved a 500+ resident apartment complex—WSSC did not want to take water away from residents who were quarantined at home.