Project Profile: MICROTUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

Sewer Improvements at Fenwick Road and Essex Avenue
Fairfax County, VA



PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction installed 1,800' of 12" vitrified clay pipe to increase sewer capacity in two neighborhoods in Fairfax County, VA. The line was installed by pilot tube microtunneling through clay, silt, and sand. Due to some cobbles that were encountered, and several existing utilities, Bradshaw was required to perform some of the sewer installation by Open-Cut. There was also a previously unidentified storm sewer box culvert that necessitated a design change to a twin siphon. Thanks to the wide range of experience of the management team, Bradshaw was able to adapt installation methods in order to complete the project with minimal impact to the surrounding community.





PROJECT INFORMATION - 472

OWNER:
Fairfax County DPWES
Matthew J. Doyle
Senior Project Engineer
Construction Management Division
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ENGINEER:
CH2M HILL
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CONTRACTOR:
Bradshaw Construction Corporation

CONTRACT VALUE:
$2,317,196

COMPLETION DATE:
9/30/2009

GEOLOGY:
Clay, Silt, Sand, Cobbles

EXCAVATION METHOD:
Akkerman GBM 110
16" Ø Pilot Tube- Auger

MINING DIMENSIONS:
1,800' x 16" Ø

FINAL LINING:
Pilot Tube Microtunneling
12" No-Dig VCP

FOR MORE INFORMATION:
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Refer to Project 472