Project Profile: MICROTUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

College Drive Waterline Phase II
Suffolk, VA



PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction microtunneled a single 370 linear feet drive of 30 inch steel casing under I-664 in Suffolk, VA. The subsurface conditions consisted of loose clayey & silty sands (SC & SM) below the groundwater table. Settlement was less than an 1/8 of an inch. Bradshaw installed a 16 inch restrained joint ductile iron pipe for a water main inside the jacked casing. Since this was a single drive, the greatest challenge was the 24x7 tunneling schedule required by the Owner to minimize potential impact to highway operations and the public.





PROJECT INFORMATION - 547

OWNER:
City of Suffolk
Adam James
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ENGINEER:
Dewberry Engineers, Inc.
Scott Funk
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CONTRACTOR:
Branscome, Inc

COMPLETION DATE:
4/24/2015

GEOLOGY:
Loose Clayey, Silty Sands

EXCAVATION METHOD:
Herrenknecht AVN-600 MTBM

MINING DIMENSIONS:
370' x 30" Ø

FINAL LINING:
16" Ductile Iron Pipe

FOR MORE INFORMATION:
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Refer to Project 547