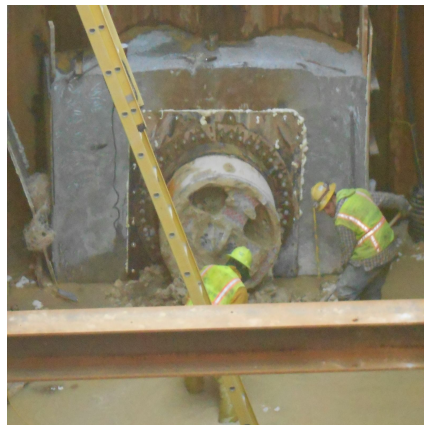


## Fort Meade Reclaimed Water Laurel, MD



### PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction installed a) 240 linear feet of 60 inch steel casing to house twin 20 inch ductile iron water lines under MD Route 32 and b) 410 linear feet of 43 inch steel casing for a 24 inch ductile iron water line under the Little Patuxent River as part of the Fort Meade Reclaimed Water Project. The casings were jacked behind a microtunnel boring machine in soft ground conditions below the water table. The work included installing steel rib and liner plate supported launch and receiving shafts for the MD-32 crossing and a launch shaft for the river crossing.



### PROJECT INFORMATION - 533

**OWNER:**

Howard County  
Department of Public Works, Bureau  
of Utilities  
Daniel Davis  
410-313-2040  
dliu@howardcountymd.gov

**ENGINEER:**

Whiteman, Requardt, & Associates,  
LLP  
410-235-345

**CONTRACTOR:**

Ulliman Schutte Construction, LLC

**COMPLETION DATE:**

4/5/2014

**GEOLOGY:**

Wet Sand, Clay, Trace Gravel

**EXCAVATION METHOD:**

Herrenknecht AVN-800 MTBM  
Herrenknecht AVN-1200 MTBM

**MINING DIMENSIONS:**

404' x 43" & 227' x 60" Ø

**FINAL LINING:**

24" Ductile Iron Pipe  
20" Ductile Iron Pipe (twin)

**FOR MORE INFORMATION:**

Doug Piper, Project Manager  
410-970-8300  
dpiper@bradshawcc.com  
Refer to Project 533