

## Piney Branch Sewer Interceptor Upgrade - Phase 1 Waldorf, MD



### PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction completed five tunnels, totaling 1600', by microtunneling below lakes, swamps, and roadways. The tunnels were for Charles County's Piney Branch Sewer Interceptor Phase 1. 60" jacked steel casing was used to install 42" PVC carrier pipe for a gravity sewer. Subsurface conditions included silt, clay, and sand. Bradshaw Construction also installed five steel sheeted jacking shafts ranging from 18 to 23' deep. Access through lengthy haul roads on limited right of way due to the wetlands was the major challenge to installing the microtunnels.



### PROJECT INFORMATION - 505

**OWNER:**

Charles County Maryland  
200 Baltimore Street  
La Plata, MD 20646  
301.645.0689

**ENGINEER:**

KCI Technologies  
936 Ridgebrook Road  
Sparks, MD 21152  
John Kovacs, 410.316.7800

**CONTRACTOR:**

American Infrastructure

**COMPLETION DATE:**

8/31/2011

**GEOLOGY:**

Silt, Clay, Sand

**EXCAVATION METHOD:**

Herrenknecht MTBM 60" Ø

**MINING DIMENSIONS:**

1,600' x 60" Ø

**FINAL LINING:**

42" PVC

**FOR MORE INFORMATION:**

Michael Wanhatalo, Project Manager  
410.970.8300  
mwanhatalo@bradshawcc.com  
Refer to Project 505