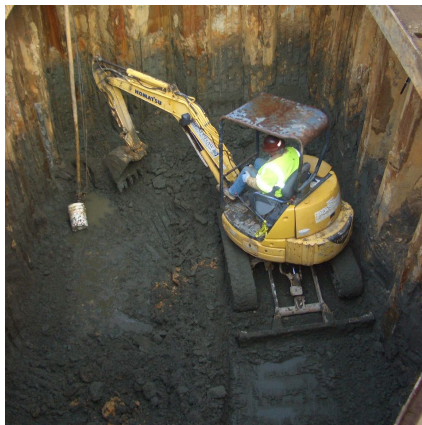


## Piney Branch Sewer Interceptor Upgrade - Phase 1 Waldorf, MD



### PROJECT OVERVIEW AND CHALLENGES

As part of a 1,600 linear feet microtunnel sewer project, Bradshaw installed all the 5 drive shafts. Subsurface conditions included silt, clay, and sand with the tunnels well below the ground water table. Bradshaw used interlocking steel sheeting to install the water tight shafts ranging in depth from 18 to 23 feet. The primary challenges of this project were the limited access along lengthy haul roads with narrow right of way within wetlands.



### PROJECT INFORMATION - 505

#### OWNER:

Charles County  
Aaron Hamm  
(301) 645-0509

#### ENGINEER:

KCI Technologies  
John Kovacs  
(410) 316-7800

#### CONTRACTOR:

American Infrastructure

#### COMPLETION DATE:

8/31/2011

#### GEOLOGY:

Silt, Clay, Sand

#### EXCAVATION METHOD:

Vibratory Pile Hammer

#### MINING DIMENSIONS:

12'-15' x 15-30VF

#### FINAL LINING:

Steel Sheeting

#### FOR MORE INFORMATION:

Mike Wanhatalo, Project Manager  
(410) 970-8300  
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Refer to Project 505