

## Little Patuxent Parallel Interceptor Sewers 9 Columbia, MD



### PROJECT OVERVIEW AND CHALLENGES

This project involved the construction of six tunnels, totaling 1,600'. The tunnels passed under Maryland State and Howard County roads on three phases of Howard County's Little Patuxent Parallel Interceptor project. 60" of jacked steel casing was used to install 36 to 42" of fiberglass reinforced carrier pipe for a gravity sewer. Subsurface conditions ranged from alluvial deposits of gravel and cobbles to residual soils to mixed face conditions to 25,000+ psi rock. All of the tunnels were below the groundwater table.



### PROJECT INFORMATION - 501

#### OWNER:

Howard County  
9250 Bendix Road  
Columbia, MD 21045  
Wes Daub, Engineer  
410.313.6194

#### ENGINEER:

Dewberry and Davis  
3106 Lord Baltimore Drive #110  
Baltimore, MD 21244  
Robert Burns, 410.265.9500

#### CONTRACTOR:

American Infrastructure

#### COMPLETION DATE:

1/31/2011

#### GEOLOGY:

Rock, Residual Soils, Alluvium,  
Boulders, Cobbles, Gravel

#### EXCAVATION METHOD:

Herrenknecht MTBM 60" Ø

#### MINING DIMENSIONS:

246' & 268' x 60" Ø

#### FINAL LINING:

36" & 42" Fiber Reinforced Pipe

#### FOR MORE INFORMATION:

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Refer to Project 501