

## Manchester Creek Outfall Rock Hill, SC



### PROJECT OVERVIEW AND CHALLENGES

Bradshaw jacked a 59" diameter steel casing 311 feet under interstate highway I-77 behind a microtunnel boring machine (MTBM). The subsurface conditions consisted of clay and sand below the groundwater table. In order to mobilize to the jacking shaft, about a mile of forest was cleared and the equipment was dragged in on sleds. A slide rail system was used for the jacking shaft with special accommodations for microtunneling in the front and back. Once the casing was completed, Bradshaw installed a 42" ductile iron gravity sewer pipe in the casing and grouted it in place.



### PROJECT INFORMATION - 494

#### OWNER:

City of Rock Hill  
Scott Turner  
803-325-2500

#### ENGINEER:

Wiedman and Singleton, Inc.  
Troy Began  
803-329-2944

#### CONTRACTOR:

Lee's Hauling & Grading, LLC

#### COMPLETION DATE:

5/1/2011

#### GEOLOGY:

Clay, Silt and Sand

#### EXCAVATION METHOD:

Herrenknecht AVN-1200 MTBM

#### MINING DIMENSIONS:

311' x 59" Ø

#### FINAL LINING:

42" Ductile Iron Pipe

#### FOR MORE INFORMATION:

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Refer to Project 494