

NW 170th Street  
Hialeah, FL



## PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction installed 524 linear feet of 52.5 inch Permalok steel casing by microtunneling underneath the heavily traveled I-75 highway. We then installed a 36 inch ductile iron carrier pipe within the tunnel as a new water main. Bradshaw assisted the General Contractor with subcontractor supervision at no additional cost, helping to insure quality of the shaft and concrete work. Even with a vast amount of water leaking into the shaft, Bradshaw continued to mine through man made obstructions to the MTBM, while successfully managing line and grade to deliver a product ahead of schedule. Besides trash fill, the ground conditions included sand and limestone below the water table.



## PROJECT INFORMATION - 513

### OWNER:

Miami-Dade Water & Sewer  
Department  
3071 S.W. 38th Avenue  
Miami, FL 33146  
305-665-7477

### ENGINEER:

AECOM Technical Services, Inc.  
13450 W. Sunrise Blvd #200  
Sunrise, FL 33323  
James Penkosky  
954-745-7200

### CONTRACTOR:

GPE Engineering Contractors

### COMPLETION DATE:

6/16/2012

### GEOLOGY:

Limestone with Trace Sand

### EXCAVATION METHOD:

Herrenknecht AVN-1000 MTBM

### MINING DIMENSIONS:

524' x 54" Ø

### FINAL LINING:

36" Ductile Iron Pipe

### FOR MORE INFORMATION:

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Refer to Project 513