

## East Princess Anne Trunk Force Main Reinforcement-Section A Virginia Beach, VA



### PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction microtunnelled 336 linear feet of 60 inch steel casing at the intersection of Nimmo Parkway and General Booth Boulevard in Virginia Beach, VA. The subsurface conditions consisted of medium dense, poorly graded, sand (SP-SM) below the groundwater table. Settlement points were monitored along the alignment in the streets. Minimal settlement was measured and well within the established tolerances. Bradshaw installed a 42" restrained joint DIP sewer forcemain jacked casing. The general contractor installed a steel sheeted launch shaft and a slide rail receiving shaft, both were approximately 20-feet deep. The greatest challenge on this project was the required 24x7 tunneling schedule required by the Owner to minimize potential impact to highway operations and the public.



### PROJECT INFORMATION - 525

#### OWNER:

Hampton Roads Sanitation District  
Katherine Mohammed-Jones, P.E.  
(757) 460-2261

#### ENGINEER:

Michael Baker Jr., Inc.  
Warren Wilczynski  
(757) 463-8770

#### CONTRACTOR:

Branscome Incorporated

#### COMPLETION DATE:

6/15/2013

#### GEOLOGY:

Sand

#### EXCAVATION METHOD:

Herrenknecht AVN-1200 MTBM

#### MINING DIMENSIONS:

336' x 60"Ø

#### FINAL LINING:

42" Restrained Joint Ductile Iron  
Pipe

#### FOR MORE INFORMATION:

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Refer to Project 525