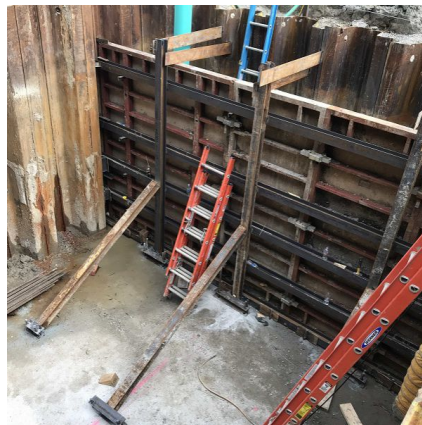
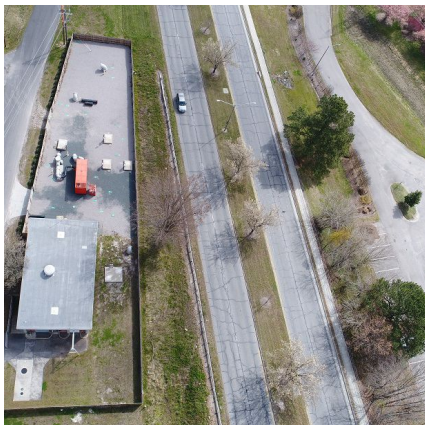


## Pressure Reducing Station Reliability Upgrades Virginia Beach, VA



### PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction installed 182' x 60" steel casing underneath Providence Road for the Hampton Roads Sewer Sanitation District in Virginia Beach, VA. The tunnel crossing was required for the installation of a 42" DIP sanitary sewer. The tunnel was excavated through sand and clay below the water table. Challenges included tunneling underneath Providence Road without causing settlement and a complicated pipe installation requiring the concurrent installation of both 42" DIP as well as two 2" HDPE conduits. After completing the pipe installation the tunnel was backfilled with flowable fill.



### PROJECT INFORMATION - 594

#### OWNER:

Hampton Roads Sanitation District  
Laura Kirkwood  
757-460-2491

#### ENGINEER:

RK&K  
Leanne Key  
757-498-4123

#### CONTRACTOR:

Ulliman Schutte Construction, LLC

#### COMPLETION DATE:

10/4/2019

#### GEOLOGY:

Sand, Clay

#### EXCAVATION METHOD:

Herrenknecht AVN-1200 MTBM

#### MINING DIMENSIONS:

182' x 60" Ø

#### FINAL LINING:

42" DIP

#### FOR MORE INFORMATION:

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Refer to Project 594