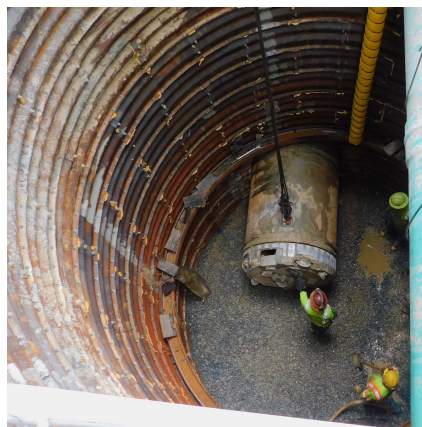


## Oregon Avenue NW Sewer Rehabilitation Washington , D.C.



### PROJECT OVERVIEW AND CHALLENGES

Bradshaw has completed construction of a 4,300' long 24" sewer interceptor project for DC Water. The project included 2,600' of tunnels installed in (3) drives at depths of up to 90'. The 60" tunnels, were accessed from (6) shafts up to 48' deep. Subsurface conditions consisted of Tonalite rock ranging from slightly weathered to highly decomposed. 2,150' of 60" steel casing were installed in (2) microtunnel drives, the longest being 1,866' in a single push. The 3rd microtunnel drive was a 632' radius 450' S-curve installed using 48" RCP. Access for tunneling operations was challenging on the project in order to avoid existing utilities, maintain local traffic, and confining the installation to the restricted right-of-ways provided led to both Bradshaw's longest microtunneling drive and its first curved drive. The project also included 1,700' of open-cut sewer, (3) connections to the existing sewer system and the abandonment of the existing 15" sewer being replaced.



### PROJECT INFORMATION - 565

#### OWNER:

District of Columbia  
Water & Sewer Authority  
Willis Thomas  
202-320-7326  
Willis.Thomas@dcwater.com

#### ENGINEER:

Johnson, Mirmiran & Thompson  
Joint Venture w/ WRA  
Derek Morin  
410-329-3100  
DMorin@jmt.com

#### CONTRACTOR:

Bradshaw Construction Corporation

#### CONTRACT VALUE:

\$16,824,115.00

#### COMPLETION DATE:

11/30/2018

#### GEOLOGY:

Rock, Decomposed/Weathered Rock

#### EXCAVATION METHOD:

Herrenknecht AVN-1200 MTBM

#### MINING DIMENSIONS:

1866', 284', & 632' x 60" Ø

#### FINAL LINING:

24" Polyvinyl Chloride Pipe  
48" Reinforced Concrete Pipe

#### FOR MORE INFORMATION:

Todd Brown, Project Manager  
410-970-8300  
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Refer to Project 565