

# Shady Grove Sewer Extension Derwood, MD



## **PROJECT OVERVIEW AND CHALLENGES**

Bradshaw Construction was contracted to install a 182' x 48" RCP tunnel for a sewer extension project in Derwood, MD, after the original subcontractor was unable to install the tunnel with a 36" SBU. The 60" OD tunnel was installed underneath a road and highly sensitive 36" and 48" PCCP water transmission lines with minimal clearances. The initial SBU attempt made it 70' in, requiring Bradshaw to backfill the exposed 70' x 36" tunnel prior to commencing microtunnel operations. Once tunneling operations were completed, 16" DIP was installed and backfilled. Major challenges on the project included maintaining line and grade through the transition from the native rock and the backfilled 36" tunnel. Extensive monitoring for both settlement and vibrations on the utilities was also required. Ultimately, the tunnel was installed on line and grade with no impact to the road or utilities.





#### **PROJECT INFORMATION - 611**

OWNER: EYA, LLC Adam Hayes 301-634-8653

### ENGINEER: WSSC Water

Don Owens 301-206-7368

**CONTRACTOR:** W.F. Wilson & Sons, Inc.

**COMPLETION DATE:** 11/13/2020

GEOLOGY: Rock

EXCAVATION METHOD: Herrenknecht AVN-1200 MTBM

MINING DIMENSIONS: 182' x 60" Ø (48" RCP)

FINAL LINING: 16" DIP

### FOR MORE INFORMATION:

Jordan Bradshaw 410-970-8300 jordan.bradshaw@bradshawcc.com Refer to Project 611