

**Project:** Scudder Falls Bridge

**Location:** Yardley, PA

**Project Details:**

Working between the Delaware River and Delaware Canal, the project location was constantly flooded during construction of an 84" diameter casing under I-295 in Yardley, PA. Large boulders embedded in wet sandy gravel made project conditions unstable. The work crew used a guided boring machine to install stabilization grout pipes and then solidified the soil strata. The auger boring method was abandoned at roughly 100 LF into the crossing due to the presence of numerous boulders and obstructions. The crew used tunneling and jacking methods to install the remaining 80 LF. With the 72" product pipe in place, the crew used a lightweight grout to reduce buoyancy forces for annular fill.

**Final Product:** 180 LF of 84" Diameter Steel Casing with 72" DuroMaxx Liner

**Geology:** Boulders, Gravely Sand with Frequent Flooding

**Project Profile**

Soil Stabilization

**Completion Date**

March 2018

**Installation Methods:**

Auger Boring  
Pipe Jacking and Tunneling  
MicroTunneling (Pilot Tube Method)  
Soil Stabilization  
Grouting

**Markets Served:**

Storm Water  
Transportation  
Heavy Civil Construction



**Owner:**

Delaware River Joint Toll Bridge Commission

**Engineer:**

Michael Baker International

**Contractor:**

Trumbull Corporation

**For More Information:**

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Reference Job # 1635228