

Liberty University Vines Center Arena Lynchburg, VA



PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction installed a 250' tunnel underneath the campus of Liberty University in Lynchburg, VA. The direct-jacked 72" fiberglass tunnel was installed through a congested area of campus, underneath utilities, first through a pinnacle of hard and abrasive schist, then transitioning into clay. Challenges included tunneling through the mixed face/mixed reach conditions and maintaining line and grade for the single-pass gravity sewer. Maintaining grade through the harder schist in the invert with weathered rock and weak overburden soils in the crown of the tunnel was achieved, and the transition zone into the clay was successfully navigated.



PROJECT INFORMATION - 597

OWNER:

CMA Associates, Inc
Alex Houser
434-841-2916

ENGINEER:

Perkins & Orrison
Russ Orrison
540-784-0142

CONTRACTOR:

Falconer Construction Company,
Inc.

COMPLETION DATE:

8/30/2019

GEOLOGY:

Rock, Clay

EXCAVATION METHOD:

Herrenknecht AVN-1500 MTBM

MINING DIMENSIONS:

250' x 75.4" Ø

FINAL LINING:

72" FRP

FOR MORE INFORMATION:

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Refer to Project 597