

Children's Hospital of Richmond Pavilion Richmond, VA



PROJECT OVERVIEW AND CHALLENGES

As part of a design/build project, Bradshaw Construction constructed two utility tunnels for the extension to the Children's Hospital of Richmond. Excavation for the first tunnel consisted of 132 inch diameter liner plate with 96 inch reinforced concrete pipe as final lining. The ground conditions were lean clays overlaid with gravely sand in the crown. The second tunnel was for 96 inch liner plate for a 66 inch reinforced concrete pipe through fill, sand, and clay. Tunnel access was particularly challenging. Both tunnels connected to existing underground basement structures which required excavation through buried shoring systems and partial demolition of existing building walls at the connection points.



PROJECT INFORMATION - 528

OWNER:

Virginia Commonwealth University
Health Systems (Jones Lang LaSalle
Americas, Inc.)
Bryant Wilson
(804) 828-9264
bryant.wilson@am.jll.com

ENGINEER:

HKS, Inc.
Michail Cochran
(804) 644-8400
MCochran@HKSInc.com

CONTRACTOR:

Skanska USA Building, Inc.

COMPLETION DATE:

7/2/2014

GEOLOGY:

Lean Clay with Sand & Sandy Fat
Clay

EXCAVATION METHOD:

Hand Mine

MINING DIMENSIONS:

82' x 132"Ø & 98' x 96" Ø

FINAL LINING:

96" Reinforced Concrete Pipe with
Liner Plate Supports
66" Reinforced Concrete Pipe with
Liner Plate Supports

FOR MORE INFORMATION:

Todd Brown, Project Manager
(410) 970-8300
tbrown@bradshawcc.com
Refer to Project 528