

### Condenser Water Piping Renewal, Building 7 (JHU / APL) Laurel, MD



#### PROJECT OVERVIEW AND CHALLENGES

Bradshaw installed two 36 inch x 36 inch wood box tunnels, 10 linear feet and 19 linear feet long respectively, as part of a project aimed at upgrading the infrastructure at the Applied Physics Laboratory (APL). The woodbox tunnels were installed directly under two existing active corridors. The hand mined wood box technique was selected over auger boring due to the smaller work area, and the ability to address unexpected obstructions.



#### PROJECT INFORMATION - 558

##### OWNER:

Johns Hopkins University  
Applied Physics Laboratory  
Josh Helt  
443-778-5381  
jh@jhu.edu

##### ENGINEER:

Whiteman, Requardt, & Associates,  
LLP  
Sales / Engineering Dept.  
410-235-3450  
handy@wrallp.com

##### CONTRACTOR:

CPF Underground Utilities, Inc.

##### COMPLETION DATE:

4/29/2016

##### GEOLOGY:

Sand, Silt, & Weathered Rock

##### EXCAVATION METHOD:

Hand Mine

##### MINING DIMENSIONS:

10' & 19' x 36" x 36"Ø

##### FINAL LINING:

Wood Box

##### FOR MORE INFORMATION:

Doug Piper, Project Manager  
410-970-8300  
dpiper@bradshawcc.com  
Refer to Project 558