



SUBSURFACE CONSTRUCTORS, INC.

Full Service Geotechnical Contractors and Ground Improvement Specialists

Micropile



Cupples Station Building 1 – Downtown St. Louis, MO – Building Retrofit with Micropile

PROJECT DESCRIPTION

This project involved installing 46 micropile in the basement of Building 1 of the Cupples Station Warehouse Complex in Downtown St. Louis. The historic buildings of Cupples Station date to the early 1900's and were originally founded on timber piling. As part of the building retrofit and redevelopment, new foundations were required.

Subsurface Constructors, Inc. was the successful bidder and therefore installed 4.5-in. and 5.5-in. diameter pile with approximately 10 feet of headroom to a depth of 50 feet and socketed into limestone bedrock. The pile were designed for 25 and 50 tons and were used to underpin existing pile caps that had failed due to the 100-year old wood pile. Some of the pile were also used to support new shear walls in the core of the renovated building.

PROJECT TEAM

Owner:	Hammermill Lofts, LLC	Geotechnical Engineer:	Shannon & Wilson
Foundation Contractor:	Subsurface Constructors, Inc.	General Contractor:	BSI Constructors, Inc.
Structural Engineer:	KPFF, Inc.		