

Replacement of Town Street Bridge Columbus, Ohio

Project Description

Due to extensive deterioration of the existing structure, the City of Columbus decided to replace the existing Town Street Bridge. The seven-span arch structure crossed the Scioto River in downtown Columbus. PGI had been tasked with conducting the subsurface exploration program for the proposed new structure, preparing design plans for the proposed substructure units and roadway approaches. Design of the replacement structure was performed by Burgess & Niple, Ltd. Pro Geotech, Inc. (PGI) served as a subconsultant to perform several of the engineering design tasks associated with the project.

The project originally called for the replacement of the seven-span concrete arch Town Street Bridge however, due to street connectivity and traffic flow within downtown Columbus, the bridge was also to be relocated. PGI performed subsurface explorations in two phases for this project. The first exploration for the existing location was performed at the site of the existing Town Street Bridge in 2001. A total of eight (8) structural test borings were advanced through the bridge deck or adjacent to the abutments for foundation design. The second exploration, performed in 2005 for the relocation consisted of a total of six (6) structural test borings; four (4) borings were advanced from a barge at the proposed pier locations and one (1) test boring was advanced at each proposed abutment. The depths of the test borings ranged from 80 to 110 feet. The subsurface exploration program was performed in accordance with ODOT's *Specifications for Subsurface Investigations*. Upon completion of the drilling operations, laboratory testing was performed on selected soil and bedrock samples and a summary of findings report and subsurface exploration plans were prepared.

Client:

City of Columbus
c/o Burgess & Niple, Ltd.
5085 Reed Road
Columbus, OH 43203

Contact:

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Performance Period:

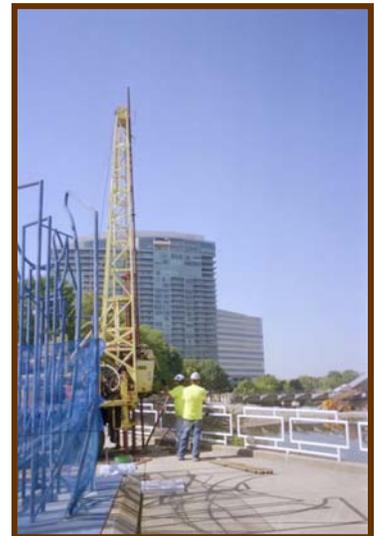
December 2001 to July 2008

Project Costs:

\$90,000 (Fee)

PGI's Role:

Soil/Rock Drilling
Laboratory Testing
Geotechnical Engineering



Pro Geotech, Inc