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# *Replacement of U.S. Grant Bridge over Ohio River Portsmouth, Ohio*

## ***Project Description***

The Ohio Department of Transportation replaced the existing U.S. Grant suspension bridge that spans the Ohio River within the next five years. Design of the replacement structure was performed by HNTB Companies who retained Pro Geotech, Inc. (PGI) to provide geotechnical engineering services for the project. The existing 19-span structure is approximately 2,400 feet long with a main span of 700 feet over the main shipping channel.

PGI developed and implemented a subsurface investigation program in accordance with applicable ODOT specifications. A total of 27 test borings were advanced in Ohio, Kentucky, and in the Ohio River to evaluate the subsurface conditions at the site. Soil and rock samples collected at the test locations were returned to PGI's laboratory for further examination and testing. Upon completion of the field operations and laboratory testing program, PGI's geotechnical personnel prepared detailed subsurface investigation plans in accordance with ODOT guidelines.

### **Client:**

ODOT District 9  
c/o HNTB Companies  
6525 Busch Boulevard  
Columbus, OH 43229

### **Contact:**

Mr. Jack Oliver, P.E.  
(614) 436-2878

### **Performance Period:**

November 1998 to February 2000

### **Project Costs:**

\$210,000 (Fee)

### **PGI's Role:**

Soil/Rock Drilling  
Laboratory Testing  
Geotechnical Engineering

