

# **ODOT - SUM-271-8.02 Bridge Replacement Summit County, Ohio**

## ***Project Description***

Pro Geotech, Inc. (PGI) was retained by Richland Engineering Limited (REL) to provide geotechnical engineering services for the design and construction of the Ohio Department of Transportation SUM-271-8.02 Project. Part of project plan called for replacement of the existing Bridges SUM-271-8.02 Left and Right over the Cuyahoga River Valley. The existing structures consist of nine spans with a total length of 1500 feet. The project also included widening of Bridge SUM-271-8.54 Left over Boston Mills Road and a limited section of I-271 roadway widening with a total length of 2300 feet along SB and 2500 feet along NB. PGI developed and implemented a subsurface investigation program in accordance with applicable ODOT specifications. A total of 54 test borings; 28 bridge test borings and 26 roadway test borings were advanced for structural and pavement design purposes, respectively. These bridge and roadway test borings were advanced to approximate depths ranging from 20 to 90 feet and 5.0 to 10.0 feet, respectively below the existing ground surface. All test borings were advanced in accordance with the ODOT Specifications for Subsurface Investigations. Numerous soil and rock core samples were obtained for testing purposes. The groundwater conditions were monitored during and upon completion of the drilling operations. PGI prepared a detailed geotechnical engineering report which included, Red Flag Summary, typed drilling logs and laboratory test results, and recommendations and discussions pertaining to spread, drilled pier, and driven pile foundations, pavement design, and preparation of Geotechnical Design Check List. Also, prepared were structure foundation exploration sheets in accordance with the ODOT Specifications.

### **Client:**

ODOT District 4  
c/o Richland Engineering Limited  
29 North Park Street  
Mansfield, OH 44902-1769

### **Contact:**

Mr. Dean A. Palmer PE  
(419) 524-0074

### **Performance Period:**

January 2003 to April 2003

### **Project Costs:**

\$192,305 (Fee)

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

Geotechnical Exploration



Pro Geotech, Inc