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## Walid I. Najjar, P.E. Senior Geotechnical Engineer

### General Qualifications

Mr. Najjar has accumulated 24 years of multi-disciplinary experience as a civil engineer on projects involving geotechnical analysis, environmental investigations, structural design, and construction supervision. Mr. Najjar's experience includes work on over 100 single and multi-span bridge replacement projects, over 60 roadway subsurface investigation projects, and numerous commercial and industrial building projects, many of which involved evaluation of subsurface soil/rock conditions for both deep and shallow foundation system design, slope stability analysis, and pavement design. He has gained significant experience with projects involving ODOT's *Specification for Subsurface Investigations*. In addition, Mr. Najjar has completed the National Highway Institute's Subsurface Investigation training course and the American Society of Civil Engineers' Deep Foundation Design course. He is certified as an ACI Level I Concrete Technician and is an active member of the American Society of Civil Engineers (ASCE) and Society of American Military Engineers (SAME).

**Years with PGI 15**

**Years with Other Firms: 22**

#### Education:

University of Washington  
B.S. in Civil Engineering

#### Registrations:

1995/Professional Engineer-Ohio  
2004/Professional Engineer-  
Maryland  
ODOT Bridge Inspection Certification  
PennDOT Drilling Inspector  
Certification  
Health and Safety Supervisor  
Certification  
Radiation Safety Trained for the use  
of Nuclear Density Gauges  
KTA-Tator Coatings Inspection  
Certification

### Experience

#### **ODOT Project No. WAR-71-3.22, Roadway Widening - Warren County, Ohio**

This ODOT project involved widening approximately 4 miles of Interstate I-71 in Warren County, Ohio. The project included widening five (5) multi-span structures along this stretch of highway. PRIME's scope of services for this project included advancing a total of 71 roadway test borings, 32 structural borings, and one test boring for a signpost. PGI was responsible for all aspects of field investigation, laboratory testing, and technical report preparation that included preparation of subsurface investigation plans. Fieldwork for this project required a considerable amount of coordination with the drilling personnel, the client, State Highway Patrol, and local authorities to minimize the disruption to traffic. Mr. Najjar served as PGI's Project Manager for this contract.

#### **U.S. Grant Bridge Replacement - Portsmouth, OH**

Mr. Najjar was PGI's designated Project Manager for this Ohio Department of Transportation (ODOT) bridge replacement project. The overall project called for replacement of an existing 19-span, 2,400-foot long suspension bridge that spans the Ohio River. PGI was responsible for the subsurface investigation program for this project. Work included advancing 27 test borings, performing laboratory testing on selected soil and bedrock samples, and preparing subsurface investigation plans in accordance with ODOT specifications. Most of the test borings were advanced into the Ohio River using a barge-mounted drill rig.

#### **ODOT Project MEG-124-22.72, New Roadway - Meigs County, OH**

This project involved the design of a new roadway alignment that included four miles of State Route 124, 1.6 miles of county and township roads, one new bridge, and 16 culverts. PGI provided geotechnical engineering services for this project. Due to the very hilly, wooded terrain, PGI's crews used all terrain and skid-mounted drilling rigs to access the test boring locations. A total of 159 test borings were advanced for this project. Mr. Najjar was PGI's Project Manager for this project.