

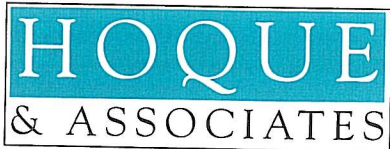
*Consulting Geotechnical, Materials and Environmental Engineers*

## **Firm Overview with Relevant Experiences**

Hoque and Associates, Inc. (HA) is a local consulting engineering firm specializing in geotechnical exploration and construction materials testing. The firm was established in 1997 to provide high quality, innovative, cost effective, and responsive services to its clients. HA employs a diversified staff of qualified and experienced professional and technical personnel including engineers, geologists, scientists, and laboratory and field testing technicians. HA specializes in a wide range of geotechnical engineering and material testing and inspection services. HA will perform all work and services out of our facility utilizing local personnel residing in the Phoenix metropolitan area.

HA has extensive experience in the following Cross-hole sonic & Gamma Gamma Density logging services, listed below are Relevant Projects of Hoque & Associates, Inc.

- **ADOT (H6241 O2C0) I10 Prince Road Traffic Interchange, Tucson, AZ , Integrity testing on over 250 drilled shafts.**
- **ADOT (H7139 O1C) I10/303 Traffic Interchange, Goodyear AZ. Shaft Integrity Testing on (68) large diameter caissons.**
- **PSHIA (AV10000010) Sky Train Stage 1A Terminal 3/2. Provided Shaft Integrity Testing & Inspection on (40+) drilled Shafts.**
- **Pima County La Cholla Bridge: Magee Rd to Overton Road (4RTLTM) Provided Shaft Integrity testing on (42) 60inch diameter caissons.**
- **Sahuarita Road Bridge, Town of Sahuarita (03P9B) Provided CSL & GDL shaft Integrity testing.**
- **ADOT (H7473 O1C) Cienega Creek-Marsh Station, Phase III, Provided CSL & GDL Shaft Integrity testing on (12) 60 inch to 84 inch diameter shafts.**
- **PCDOT (4MCFTL) Cortaro Farms & Magee Road Improvements, Tucson Arizona. Provided Shaft Integrity testing on (16) (60" diameter Shafts)**
- **ADOT (H661401C) San Carlos River Bridge, Peridot AZ. CSL & GDL Shaft Integrity testing on Approximate (16, 72" diameter shafts).**
- **City of Tucson (S083) Cushing Street Bridge Improvements: Provided CSL & GDL shaft Integrity testing on (10) drilled shafts. Pier shafts extend to 155 feet below grade.**
- **ADOT (H752801C) SR143/ Sky Harbor Blvd. Currently Working CSL & GDL shaft Integrity testing on approximately (40) drilling shafts.**
- **ADOT (H745701C) BRIDGE 3 202L-101L HOV BRIDGE. CSL & GDL shaft Integrity testing on approximately (15) Large diameter (144"dia, 130"dia, 120"dia.) drilled shafts.**
- **ADOT (H600501C) San Pedro Bridge #2944, Sierra Vista, Arizona**
- **ADOT (H757101C) Laguna Creek Bridge #20001. Mexican Water, Arizona**
- **PSHIA, Sky Train- Underpass on Taxiway "S&T" Phoenix Arizona.**
- **Ice House Canyon Road Bridge (SB-400-01C) Globe, Arizona.**
- **Gilson Wash Replacement Bridge, Globe Arizona**
- **ADOT Bylas Test Shaft & Bylas Bridge #2945, Bylas Arizona**



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- **Obed Road Rehabilitation Bridge, Joseph City Arizona,**
- **SR70 San Carlos River Test Shaft, Peridot, Arizona.**
- **SRP-Pinal Central to Abel Transmission lines (113-116). Pinal County Arizona**
- **ADOT (H687101C) SR 202/SR 51 TI to SR 101L EB/WB Widening Project, Phoenix/Tempe Arizona-** CSL & GDL shaft integrity testing on approximately 215 drilled shafts. Bridges included the SR202 Salt River Bridge EB/WB, Indian Bend Wash EB/WB, Scottsdale Rd EB/WB, College Ave EB/WB, 32<sup>nd</sup> St EB/WB and 24<sup>th</sup> Street EB/WB.
- **City of Phoenix (AV10000001) PSHIA- PHX SKY TRAIN Stage 1 Design Project Phoenix, Arizona-** (Terminal 4, Guideway, EEL Station, 44<sup>th</sup> Street Station) CSL & GDL shaft integrity testing on approximately (180) drilled shafts.
- **ADOT (H715601C) L303 Agua Fria River Bridge, Peoria Arizona.** CSL & GDL shaft integrity testing on approximately (34) drilled shafts.
- **ADOT (H583801C) TWIN PEAKS BRIDGE, Marana Arizona-** CSL & GDL shaft integrity testing on approximately (28) drilled shafts.
- **ADOT Mill Avenue Viaduct EB Widening (Loop 202 and Mill Avenue) Tempe Arizona-** Cross hole sonic & gamma logging data of the Loop 202 over Mill Avenue.

HA provides the above services in-house with the exception of drilling. HA's in-house resources include a fully equipped construction materials testing laboratory and offices for professional and support personnel who provide engineering, management, and administrative services. Managers have state-of-the-art computer systems dedicated to their exclusive use. Software proven effective in project management is utilized to assist our project managers with efficient budget development and tracking, schedule development and tracking, database development and maintenance, and documentation and report generation.

Our laboratory is accredited by appropriate state and federal agencies. All of HA's laboratory and field testing equipment is calibrated on a routine basis per our accreditation criteria, and calibration documentation is kept on file in our offices. All equipment is routinely inspected and repaired or replaced as appropriate. Nuclear gauges used for field density testing of soil and asphalt are licensed by the Arizona Radiation Regulatory Agency (License number 7-431).