

## **RFRP # 11/12-002**

### **Drilled Shaft Resistance Based on Diameter, Torque and Crowd (Drilling Resistance vs. Rock Strength)**

#### **Technical Questions and Responses**

**Question:** Specifically how will the system be evaluated? This is to say, what will the data be compared to in order to validate its operational performance? This might involve a load test, numerical modeling comparison or rock core strength results? If a load test is being considered, what size drilled shaft will be tested? Both diameter and length should be specified.

**Response:** Addressed in Addendum 1.

**Question:** Objectives 1 and 4 state that we need to develop means to characterize the site conditions and measure pertinent properties, respectively, from excavation to concrete placement. We are not sure what it is meant by “from excavation to concrete placement.” Are we supposed to characterize the site conditions at various stages of construction?

**Response:** The Objectives keep all options open for the researcher(s) to identify critical parameters, during the entire drilled shaft construction process (from excavation to concrete placement), which are significant to monitor and measure that can be used to infer the rock strength and rock quality in the rock socket portion of the drilled shaft. If this can be accomplished during one stage of the construction process, then this meets the overall objectives of this project.