



# GEOTECHNICAL & DRILLING

## MISSION-READY SOLUTIONS. BUILT FOR COMPLEX ENVIRONMENTS.



### **Federal Highway Administration, McLean, VA: Geotechnical Engineering Research Program.**

Conducted research studies for the geotechnology team at the Turner-Fairbank Highway Research Center, including literature searches, technology evaluations, computer aided design projects and operating and maintaining the geotechnical laboratory facilities.

### **Upper Chesapeake Bay Range Lights, Chesapeake Bay, MD.**

Project included making 8 test borings over water to a depth of 160 feet. Extensive laboratory testing involved development of shear strength design criteria, and geotechnical analysis for deep foundations, including development of p-y curves and pile driveability analysis.

### **Washington National Airport, Washington, DC. Geotechnical Instrumentation, Phase II Roadways.**

Installed and monitored 6 slope inclinometers, 52 tilt plates, and 12 survey points to monitor movement of a subway bridge during installation of a cut-ramp.

### **Philadelphia International Airport, Philadelphia, PA: Geotechnical & Site Investigation**

Provided geotechnical and environmental site investigation for the expansion of the Philadelphia International Airport which included a new international runway and taxiway, new airline hangers, relocation of a portion of Hog Island road which includes a tunnel under the new runway and terminal expansion. A portion of the new runway and taxiway are to be constructed over a portion of the city of Philadelphia municipal landfill which has been closed for several years.

### **Braintree-Weymouth Sewer Project, Braintree, MA.**

Performed geotechnical and environmental investigations in support of the design and construction of the Braintree-Weymouth replacement pump station and interceptors for the Massachusetts Water Authority. Project covered the Houghs Neck and Germantown portions of Quincy, the Boston Edison Company (BECO)/Sprague site at the west end of Weymouth, North Weymouth, the Idlewell section of Weymouth, and East Braintree.

## SERVICES

- SUBSURFACE INVESTIGATIONS
- FOUNDATION ENGINEERING
- SLOPE STABILITY ANALYSIS
- PAVEMENT DESIGN AND EVALUATION

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