

## Deep Rock Tunnel Connector (DRTC) – CSO 008 Drop Shaft Construction Inspection Indianapolis, IN



### Client

Citizens Energy Group; AECOM



### Services Provided

- Inspection of CB Wall construction
- Administration assistance



### Project Cost At Bid

\$31,908,000 (Total of 3 CSO Drop Shafts)

### Project Dates

Winter 2012-13 – 2017

### Project Overview:

CSO 008 Vortex Drop Shaft is a component of the DRTC project. The DRTC project is a portion of the City of Indianapolis' long term control plan to reduce the occurrences of raw sewage overflows from CSO outfalls along the White River. CSO 008 entails construction of an Earth Retention Structure utilizing the Cement Bentonite Soldier pile wall method, a vortex drop shaft structure with connection structure, approach channel, transition section, air vent pipe shaft, deaeration chamber and adit.



### Farah & Sons' Role:

Farah and Son's Inc. was involved during construction of the cement bentonite soldier pile (CB) earth retaining structure. Farah was responsible for inspection and observation of construction activities including: installation of electrical conduit, excavation depths of CB panels utilizing a clamshell and custom long reach excavator, placement and depth of soldier piles. Sampling and testing of the cement bentonite slurry was witnessed as the following tests were administered by the contractor: PH level, sand content, temperature, viscosity and specimen molding for strength testing.