



## HUEY P. LONG BRIDGE

### New Orleans, Louisiana

Owner: Louisiana DOTD

Designers:  
Modjeski and Masters (Bridge)  
Eustis Engineering (Geotechnical)

Contractor Joint Venture:  
Kiewit-Massman-Traylor Constructors (KMTC)

Years of Project: 2006—2013

Total Project Cost: \$1.2 billion

Owner Reference:  
Steve Meunier, P.E. (LADOTD—225-379-1345)

#### Project Highlights:

The Huey P. Long Bridge is US Hwy 90 crossing over the Mississippi River in New Orleans, Louisiana. The bridge, which opened in 1935, is only one of three Mississippi river crossings in the New Orleans, and consisted of two lanes in each direction, with a rail line in the center. The project retrofitted the existing piers at the river crossing to widen the deck for additional lanes of traffic.

The original foundations consisted of caissons, which were determined to be adequate for use under the new loads, however a new pier had to be constructed at the northern landing under the existing bridge. A total of 13 base-grouted drilled shafts 9 feet in diameter and 184 feet in length were constructed under the existing bridge. The shafts had a deep cut-off and were capped below grade inside a coffer cell. The shafts were constructed using full-depth temporary casing that was installed and extracted (during concreting) with the use of a casing rotator. Excavation was made exclusively with a down-hole grab. A load testing program performed at the start of construction consisted of one bi-directional O-cell load test at a dedicated (sacrificial) location next to the pier.

DBA served as a consultant to KMTC for the load testing program and the base grouting of the drilled shafts.

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