CHANCE®

UNDERPINNING ANCHORING REPORT

A CASE HISTORY

Project:
Louisiana Urban Flood Control
Highway I-10, Metairie, LA –
Corps of Engineers, New Orleans

Contractors:
Shavers-Whittle Construction,
Mandeville, LA

Anchoring Sub-Contractor:
HELITECH®
Belleville, IL

Problem:

The Urban Canal, which sits under the I-10 Highway, serves as a major waterway north of New Orleans. The U.S. Army Corps of Engineers had concerns about erosion of the canal's embankment under a major east/west-bound overpass of the highway. The soil type was Sandy Clay.

Solution:

Chance HELICAL PIER® Foundation Systems anchors were placed to secure 6' x 6' concrete panels to the soil slope. A concrete overlay then was poured to encapsulate the entire embankment area.

At depths from 15 to 45 feet, some 1,283 HELICAL PIER Foundation Systems anchors were used in the project. The anchor configuration was 2" square-shaft with three helices (6", 8" and 10" diameters).

Result:

The Chance system gave the U.S. Army Corps of Engineers a practical and economic solution to help eliminate erosion concerns without compromising the embankment or overpass integrity during installation.

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