

JCI BRIDGE GROUP, INC.

Project: Trail Creek Marina Shoreline Improvements
Location: Michigan City, Indiana
Owner: Michigan City Port Authority
Year: 2014



Project Description: The project consisted of installing 1000 lft of new sheet pile seawall with 43' to 35' long sheet piling. The sheet pile wall was tied back with helical anchors spaced at 4.75 feet for a total of 225 helical anchors. The anchors required a capacity of 30 and 34 kips depending on the wall configuration. The helical anchors ranged in length from approximately 50 feet to 110 feet long with a total length of 18,300 lft driven for the project. A 4 flight configuration was used with diameters of 10", 12", 14", and 16". A whaler was placed behind the sheet pile wall to connect the helical anchors to the sheet piling.



Load tests were performed on the helical anchors to verify capacity and were tested by JCI to 200% of the design capacity. All of the anchors were then tensioned to 100% and tied off to the whaler.

Helical Supplier: Viking Helical Anchors, Eden Prairie, MN
Helical Design Engineer: Anchor Engineering, Inc., Denver, CO
Helical Foreman: Brian Loop
Helical Drill Operator: Wayne Toth and Nick Hiscox
Helical Observation/Testing Engineer: Carl Tungate, P.E.

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