Helical Anchors, Inc. Teams with Ropes Courses, Inc. to Install (41) Helical Piles for the Allegan Zip Line **Project in Michigan**

Spring 2017





Helical Anchors, Inc. 5101 Boone Ave. Minneapolis, MN 55428 763-201-6552 www.helicalanchorsinc.com	
Project Name & Location:	Zip Line - Allegan, Michigan
Project Date:	Summer 2016
Project Type:	Anchors to Support Zip Line That Crosses Kalamazoo River
Helical Pile Installation Contractor:	Ropes Courses, Inc www.ropescoursesinc.com
Structural Engineers:	Troy Garland Structural Solutions - www.tgstructuralsolutions.com
Helical Piles Specifications:	(41) 4.50" O.D. Round Shaft Helical Piles with 14",16",16" x 0.50" Helix Bearing Plates; 54 kips in Compression; 36 kips in Tension; Galvanized
Soils & Embedment Depth:	Sand and Clay. 40 ft. Average Embedment Depth
Project Timeline:	(1) Week
Helical Pile Manufacturer:	Helical Anchors, Inc Minneapolis, MN

Helical Anchors, Inc. (HAI), www.helicalanchorsinc.com, with manufacturing and corporate offices located in Minneapolis, MN, supplied (41) 4.50" helical piles for the construction of the Allegan, Michigan zip line project earlier this year.

In order to support the 600 ft. zip line across the Kalamazoo River, helical anchors were chosen by structural engineers from Troy Garland Structural Solutions because of their easy and fast installation feature.

The required helical pile design capacity was 54 kips in compression and 36 kips in tension. To provide the required helical pile design capacity, lead sections were designed with 14"-16" x .50" helix bearing plates. The average installation depth was 40 ft., and the crew from **Ropes Courses, Inc.** Were required to install some of the piles at a 15 degree batter.











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