



Structural Systems Repair Group (SSRG) Installs (40) Helical Tieback Anchors for Slope Remediation in Cincinnati



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Project Name & Location:	Cube Smart Storage – Cincinnati, OH
Project Date:	Spring, 2018
Project Type:	Helical Tiebacks Anchors to Secure a Failing Slope and Sloughing
Helical Pile Installation Contractor:	Structural Systems Repair Group, Cincinnati, OH
Structural Engineer:	Advantage Group, Cincinnati, OH - www.agengineers.com
General Contractor:	HGC Construction, Cincinnati, OH. - http://hgconstruction.com/
Helical Pile Specifications:	(40) 2.875" Round shaft galvanized helical piles with 8", 10", 12" helix bearing plates; 30 Kip ultimate tension capacity (23) 2.875" Round shaft galvanized helical piles with 10", 12", 14", 14" helix bearing plates; 15 Kip ultimate compression capacity; battered
Soils & Embedment Depth:	Fine Sand. Average Pile Embedment 25 ft.
Project Timeline:	(7) Days
Helical Pile Manufacturer:	Helical Anchors Inc. - Minneapolis, MN

Project Description

HGC Construction contacted SSRG to help come up with a tieback solution to stabilize a slope along the new Cube Smart Storage facility, where significant sloughing had begun.

(40) 2.875" helical tieback anchors with 8", 10", 12" helix bearing plates were installed at a 15 degree angle to an average depth of 25 ft. The tension load capacity for each anchor was 30 kips.

The tieback anchors were installed with a rebar reinforcement at cap locations and shotcrete slope cover was provided on top to prevent additional sloughing.

