## MacLean Civil Products Teams with McDowell NW Pile King to Install (42) Helical Combo Piles for a Residential Foundation in Portland, OR

Spring, 2017



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Project Name & Location:	Huff Wright Residence - Portland, OR
Project Date:	Spring 2017
Project Type:	Residential Deep Foundation
Helical Pile Installation Contractor:	McDowell NW Pile King - www.mcdowellnw.com/
Structural Engineer:	VLMK Engineering - www.vlmk.com/
Helical Pile Specifications:	Helical Combo Piles 1.50" RCS Leads with 8",10" Helix Bearing Plates; 2.875" Round Shaft Extensions, Galvanized
Soils & Embedment Depth:	Poorly Graded Sand with Gravel (SP); Average Pile Embedment 21 ft.
Project Timeline:	(3) Days
Helical Pile Manufacturer:	MacLean Power Systems - Civil Products Group - Fort Mill, SC





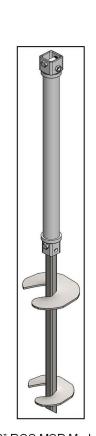


The engineering company, VLMK Engineering, determined that a retaining wall and deep foundations were needed to adequately support this new house that was being built on a slope in Portland. The soil on the site consisted of poorly graded sand and gravel.

(39) vertical helical combo piles were installed in addition to (3) battered piles. The MPS Civil Products helical combo piles consisted of a 1.50" RCS lead with 8",10" helix bearing plates and 2.875" round shaft extensions.







1.50" RCS MCP Model D15 Lead with 8"-10" Helix Bearing Plates and 2.875" Sch. 40 Pipe Pile Model P28 Extensions with Square on **Square Coupler**