



Techno Metal Post Illiana Installs (65) Helical Piles for a New House & Garage Next to the Fox River in Plano, IL

January 2023



Techno Metal Post Illiana
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Project Name & Location:	New House & Detached Garage Foundation - Plano, IL
Project Date:	January 2023
Project Type:	Deep Foundation Support for House & Detached Garage
Helical Pile Installation Contractor:	Techno Metal Post Illiana - www.technometalpostilliana.com
Builder:	Josh Harvey - Silhouette Builders, Inc. - www.silhouettebuildersinc.com/
Helical Piles Specifications:	(65) Models P3, P3HD to P4 Round Shaft Piles with 12-14-16 Inch Helix Bearing Plates; All Galvanized; 8"x 8" New Construction Pile Caps
Soils & Installation Depths:	Soft Clay & Silt to 17'; Water Table 3' Below Grade; Average Installation Depth of 30 ft.
Installation Timeline:	(3) Days
Helical Pile Manufacturer:	Techno Metal Post - Thetford Mines, QC Canada

Project Description

The site for the two-story house and detached garage was located within the 10 ft. flood plain of the Fox River outside of Plano, IL. The soils consisted of soft clays and silt to approximately 17 ft., and ground water was present at approximately 3 ft. below grade.

The deep foundation plans for the house called for (40) helical piles and (25) for the garage with an ultimate capacity requirement of (60) kips and working capacity of (30) kips. The average installation depth was 30 ft., and the pile caps were 8" x 8" new construction caps. All of the piles were installed in (3) days.

