



CASE HISTORY

SAFEBASE™ 2.875" STANDARD DUTY HELICAL PIERS

TOWER FOUNDATION CONSTRUCTION IN GARNER, IOWA



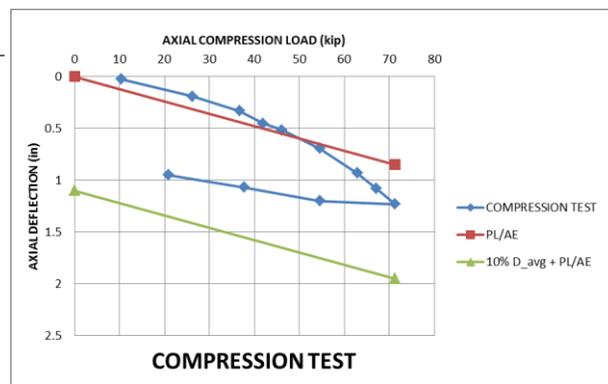
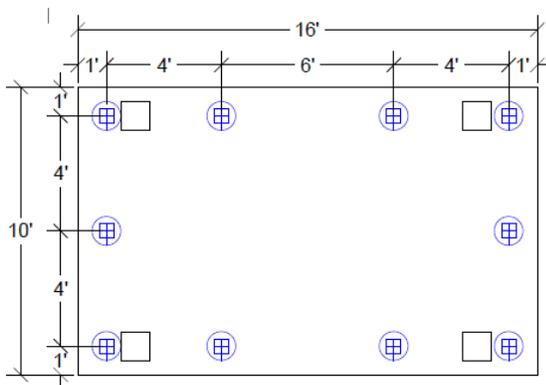
Anchored Walls was contacted by Raker Rhodes Industrial regarding a new foundation to be designed for a tower in Garner, Iowa using helical piers. SafeBasements created a set of plans which were approved for the project. The plan consisted of ten SafeBase 2.875" OD Standard Duty Helical Piers to be poured into an approximately two foot thick reinforced concrete slab. The project started on May 22nd, 2017 and was completed in two days.



An eleventh pier was installed in the center of the group of piers in order to perform a load test. Both a tension and compression test were performed verifying the capacity achieved was acceptable for the requirements of the project. The piers were installed to depths ranging from 40 to 50 feet.



Below are the tower foundation plan showing the helical piers in blue and the columns of the tower in black, and a plot of the results from the axial compression test. The red line is the elastic compression of the shaft, the blue line the load displacement curve, and the green showing the failure criterion, 10% the average plate diameter plus the elastic compression.



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