

Project: 6670 Vernon Ave South - Front Stair Helical Pier Install Observation
Date: 19-Jul-19 **Time:** 9:00 **Weather:** Sunny, Humid, 81*

Soil Conditions: Saturated sandy clay, but not wet. Excavation has had 5-7" of rain over last several days. Solid at start and become wet as piers were installed from pumping due to machine vibrations.

On-Site Persons: Sam Vandeputte - Operator Sam's Landscape - Helical Pier Contractor
 Mike S. - Laborer Sam's Landscape - Helical Pier Contractor
 Greg Eibensteiner - Special Inspector / Observer

Report Prepared By: Greg Eibensteiner

Site Notes: Contractor placed plywood for machine to rest on in order to help prevent excavation from pumping. Minimal pumping was observed and as a result of machine vibration. Two downspouts from building roof where dumping into excavation. Minimal wash-in was observed from excavation. All connections were made with three 3/4" galvanized bolts.

Requirements: 21,000# bearing capacity per Larson Engineering. Helical Pier Manufacture requires 556 PSI to achieved 21,000# bearing capacity.

Pier Number / Label:	Time Started:	Depth:	PSI:	Bearing Capacity:*	Picture(s):	Notes:
P4	9:42 AM	5	450	17,010	3 - P4	
		7	750	28,350	6	9:45 add next 10' section
		9	900	34,020	7	
		12	1050	39,690	8	
		15	950	35,910	9	
		16	750	28,350	10	
		17	800	30,240	11	9:56 Completed

* Bearing Capacity provided by Helical Pier Manufacturer formula.

Additional Notes:

I suggested to contractor to try and berm excavation ramp to help prevent additional water from entering excavation. The building still has two roof downspouts draining into excavation so any rain between now and grade beam installation will result on very saturated, wet or standing water conditions of the soil. Grade beam contractor will want to use plywood or similar to support bottom of grade beam installation vs using soil. Helical Pier Contractor was going to cut down P7 so that pier cap would be in center of grade beam although not at specified location because of helical flight location prevents them from cutting it down further.

Additional Pictures and Videos available upon request.