

## PROJECT DESCRIPTION

### Lateral Load Test on Drilled Shaft

---



Location:  
Astoria, New  
York

Client:  
Northeast  
Caissons, Inc.

Client Contact:  
Mr. Michael  
Henley  
716-542-4608

Jack and Deformation Measuring Setup for Lateral Load Test on Drilled Shaft

The New York Power Authority required a lateral load test on a drilled shaft to confirm design estimates and engaged Northeast Caissons, Inc. (NEC) to install the caissons and perform the test. NEC hired McMahon & Mann Consulting Engineers, P.C. (MMCE) to design the test setup to meet project and ASTM test specifications and to monitor the test.

MMCE designed a timber platform loaded with crane counterweights to serve as the load reaction and a steel frame to hold the jack and transfer the test load to the reaction. MMCE designed a deformation measuring system to allow the lateral deflections to be monitored. The jack was equipped with a load cell for measuring the applied loads during the test.