



cdc. consulting

FEATURED PROJECT REPORT



PERMANENT ANCHORS (HIGH CAPACITY / ACIP / POST-GROUTED)

Rio Hondo, Texas

Spring 2020

The rapidly growing world of wind energy has driven the need for high-performance high-capacity foundations to support larger wind turbines. After a significant amount of R&D in the local soils, a final design was issued and installation methods similar to those used for ACIP piles (augered, cast in place) were utilized. CFA methodology was used to drill the holes and fill them with grout, then a central threadbar was inserted into the wet grout. Intensive post grouting proved to optimize the capacity of each element. Each of the several hundred elements was individually load tested to verify capacity.

CDC was able to help the contractor in the following ways:

- Strategic Planning
- Equipment and drill tool selection / procurement / setup
- Onsite troubleshooting
- Site Supervision and QA/QC
- Data processing / presentation (pile installation and post grouting data)

