

HELICAL PILE FOUNDATION DESIGN



Lynn Transfer Station Truck Scales American Ref-Fuel Corporation Lynn, Massachusetts

Two (2) new 80-ton capacity truck scales were installed at the Lynn Transfer Station as part of a major upgrade and improvement project. The soil conditions at the site were determined to be inadequate for supporting the massive concrete slab and walls of the scale. The Client sought an economical solution that could be implemented quickly, and that had minimal interference with the ongoing operation of the station.

The Turner Group designed a foundation system comprised of a series of helical steel piles. The piles were installed to an average depth of 23 feet and had a working load of 38,000 pounds each. The piles were installed for both scales in under three days, were far below the cost of other deep foundation systems, and had little negative effect on the station's operation.