



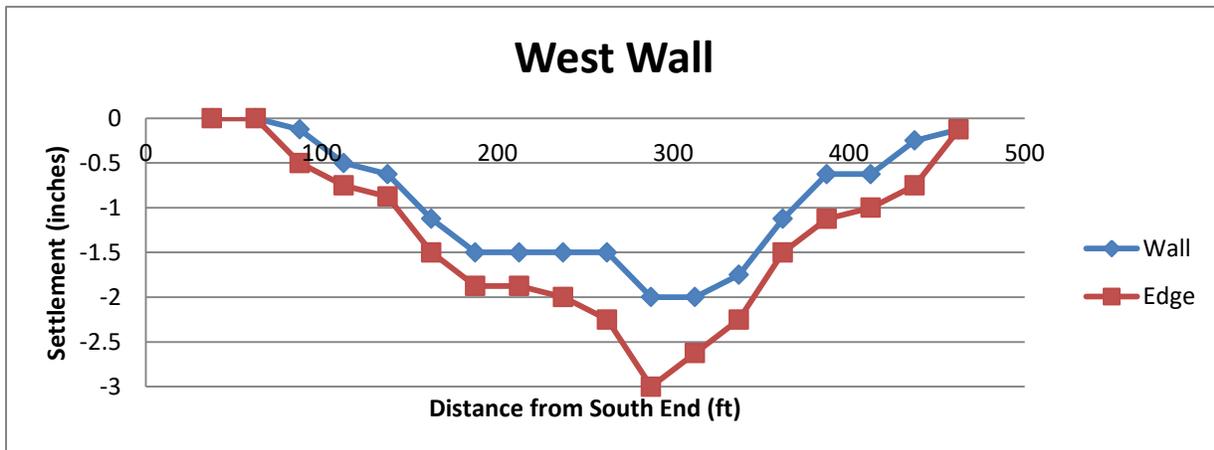
CASE HISTORY

SAFEBASE™ 3.5" COMMERCIAL DUTY HELICAL PIERS

JAMES VALLEY GRAIN



SafeBasements of Minnesota was contacted regarding movement of the walls of the grain storage building in Oakes, ND. Measurements were taken and found that the footings were settling and rotating along both of the 500' eastern and western walls. A plan was made to install SafeBase Commercial Duty Helical Piers to lift and rotate the footing back into position. The project was completed in August of 2015.





Measurements were taken along the footing, both where it meets the wall, and at the outer edge. Measurements were also taken of the lateral displacement of the wall. A correlation was found between the rotation of the wall and the footing. A plan was made to lift and rotate the wall, using 96 SafeBase 3.5" O.D. Commercial Duty Helical Piers.

The piers were installed to an average depth of 55' per pier. SafeBase Commercial Duty Bracket Assemblies were used to support the footings and new construction caps were attached to the piers to support the buttresses. After the piers were installed and the footings and walls lifted and rotated back into place, SafeBase structural polyurethane was injected beneath the footings to fill the void created by the lift.

With the structure lifted and securely in place, a series of buttresses supported by SafeBase Commercial Duty Helical Piers were built on each side to help reinforce the connection between the wall and the footing, to prevent independent movement of the wall.



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