

**Shear** – Many helical piers are subject to shear forces. Any force that acts against a helical pier horizontally (sideways) is a shear force. Note the green arrows in the drawing to the right. Shear forces can act on a helical pier both above and below the ground surface. Examples of shear forces below grade are earth pressures and seismic activity. Examples of shear forces that can act on helical piers above grade are wind, water current, and vehicle impact.

**Helical Pier applications that include measurable shear.**

- Soundwalls
- Signage and Signals
- Billboards
- Cellular Towers
- Lighting
- Moorings
- Docks
- Anything Seismic

