FYFE Co. LLC
Tyfo® Fibrwrap® Systems

Project Brief

Janesville Tank

Structural Strengthening

Janesville, MN
August 2008

During the construction of the new ethanol plant, a crack was discovered in the concrete base of one of the processing tanks. The foundation was 20 feet in diameter. The design called for an embedded steel channel in the concrete to which the steel tank would be welded. During the welding process, the expansion of the steel caused a crack in the concrete. The second tank did not suffer the same problem as the edge distance was much greater between the channel and the edge of the base.

The engineer wanted to arrest the crack and wanted to confine it after the crack was repaired. The GC repaired the crack with a cementitious product. Then a layer of glass fiber was applied around the base covering the top 24 inches of the base.

Although this is an industrial application, the GC was concerned about the appearance of the strengthening. The plant was new and they did not want a solution that detracted from the new look. Also the area around the tank had to be accessible, so a solution with minor impact on space was preferred. The entire work was completed in one day.

Fyfe Co. LLC
8380 Miralani Drive, Suite A, San Diego, CA 92126
Tel: 858.642.0694 **Fax**: 858.444.2982 **Email**: info@fyfeco.com **www.fyfeco.com**