

TorcSill is the premier provider of engineered Helical Pile and Anchor solutions to clients in a broad range of industries

Project Type

Washouts &
Exposures

Location

Oklahoma

Executive Summary

TorcSill was selected to provide a foundation solution for a pipeline river exposure in the Mid-Continent. With limited time for a planned outage, TorcSill's engineered solution was designed, manufactured and installed within two weeks of award of the Project.



Challenges

The customer faced numerous challenges while planning the horizontal directional drilling of the existing pipeline river crossing. This particular transmission pipeline supplies multiple power plants and municipalities, and as such, failure could potentially create significant environmental impact, while affecting a number of end-users. Build-up of river debris and issues securing right of way permitting called for a more immediate solution for the emergency stabilization Project. TorcSill and its partner were asked to complete the Project within five days of mobilization, overcoming high winds and water movement. Rush orders and required equipment modifications for the specialty installation also presented planning and logistics challenges.

What We Did

TorcSill Engineering designed a specialty solution to meet the owner's timeline and budget to support a 24-inch exposed pipeline across a river, incorporating an integrated piling and connections detail "support tower" to provide appropriate stability in the event of river debris impact.

The Manufacturing TEAM then quickly fabricated the specified steel structures, associated supports and provided the necessary tooling modifications, delivering onsite in less than one week, where TorcSill's AnchorPipe construction TEAM went to work.

Exercising its extensive experience in large diameter pile installations for land-based and river-crossing applications, the construction TEAM developed the Project Execution Plan, completing construction in four days, including one Safety Stand-down day resulting from high winds.



Solution

In less than two weeks, TorcSill's integrated engineering, manufacturing and construction services approach led to the successful installation of "support towers" for this emergency stabilization Project. The supports will remain in place until the owner is prepared to bore the pipeline, at which point TorcSill can safely uninstall and completely remove the foundation and connection elements with little to no environmental impact.



www.torcsill.com



800.731.8672



12000 Aerospace Ave. Ste. 115 Houston, Texas 77034 USA

