Case Study

1400' Sheet Pile Wall Installed

Date: February 2010

Owner: Port of Tacoma

Job: Lincoln Avenue Grade Separation

Location: Tacoma, Washington

General Contractor: Scarsella Brothers Construction Company

This project involved building a bridge over a series of railroad tracks so that trains could be loaded at the waterfront terminal without disrupting truck and auto traffic.

Lincoln Avenue was widened alongside a tidal drainage area that needed to be isolated from the roadway fill. Pile Contractors installed 1400 lineal feet of sheet piles and whaler system in this environmentally sensitive area. In addition, we installed 24 inch diameter steel pipe piles for support structures for the drilled shafts.

The sheet piles were installed, with limited overhead access due to high voltage wires, with two Manitowoc Crawler cranes, a Vulcan 1100 vibratory hammer and an APE 200 vibratory hammer.

The Pipe piles for the structures were predrilled with a Hitachi 400 LoDril and driven with a Berminghammer B-4505 diesel Hammer.

The foundation piles for the Auto Bridge were driven with a Berminghammer B-3505 Diesel Hammer.

This work was performed with close coordination of the general contractor, the BNSF railroad, Tacoma Power, Click Cable Company, and the City of Tacoma to maintain the environmentally sensitive waterway.