

Case Study

Soil Nail Retaining Wall

Date: May 1999

Job Name: Tacoma Dome Station II

Owner: Pierce County Transit

Location: Tacoma, WA

General Contractor: Absher Construction

The Tacoma Dome Station is a parking facility for Northbound bus and train commuters in the Tacoma, WA area. Pierce County Transit, the owner of the project, felt the need to build another parking garage next to the existing structure to accommodate the growing number of people choosing mass transit instead of the congested Puget Sound freeways. Absher construction of Puyallup, WA was awarded the contract to manage the project and Northwest Cascade, Inc. was awarded the subcontracts to excavate, install utilities, and build a soil nail retaining wall.

The excavation consisted of the removal of 15,000 cubic yards of soil. This cut created by the excavation was shored with a typical top-down soil nail wall. The soil nail wall was faced with a permanent shotcrete face to provide a smooth finish wall for the inside of the parking structure. On top of the soil nail wall Northwest Cascade constructed a MSE fill wall with geo-membrane strips to bring the site to the elevation required for construction of the building. Northwest Cascade's Heavy Civil division performed the installation of ground utilities and tie-ins for the project

The ability of NWC to provide a complete civil work package was a great asset to the owners, the schedule, and the contractors involved. Allowing the project to come in under budget and ahead of schedule.



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