

SOIL SHORING PROJECT EXPERIENCE



Heronfield Shoring Stabilization – Kirkland, WA

An unstable hillside required the installation of a 20-foot tall permanent shoring wall. The wall was constructed with pressure treated wood lagging spanning to cantilevered soldier piles.



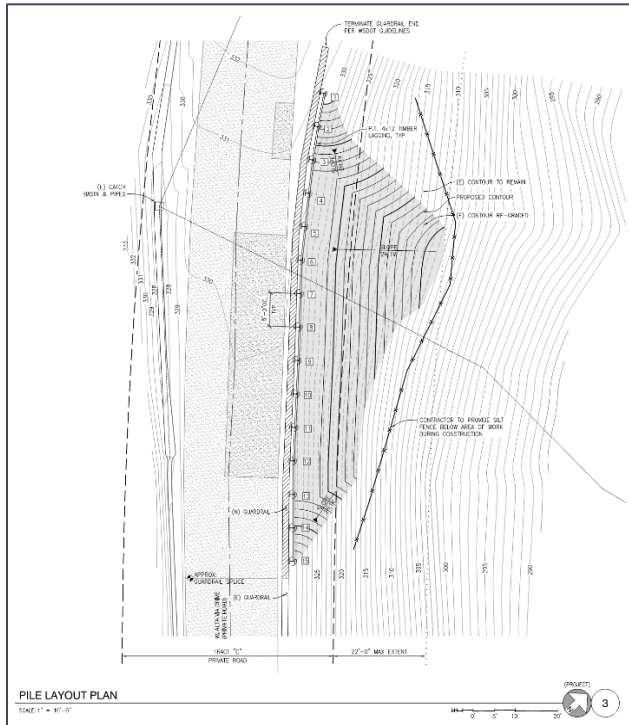
Private Residence – Mercer Island, WA

This temporary shoring wall consists of wood lagging spanning to soldier piles with a single row of tiebacks to support the construction of a single-family residence. The maximum shoring wall height was 25 feet. A reinforced concrete wall was constructed directly against the exposed face of the soldier pile wall to form the permanent basement wall of the home.

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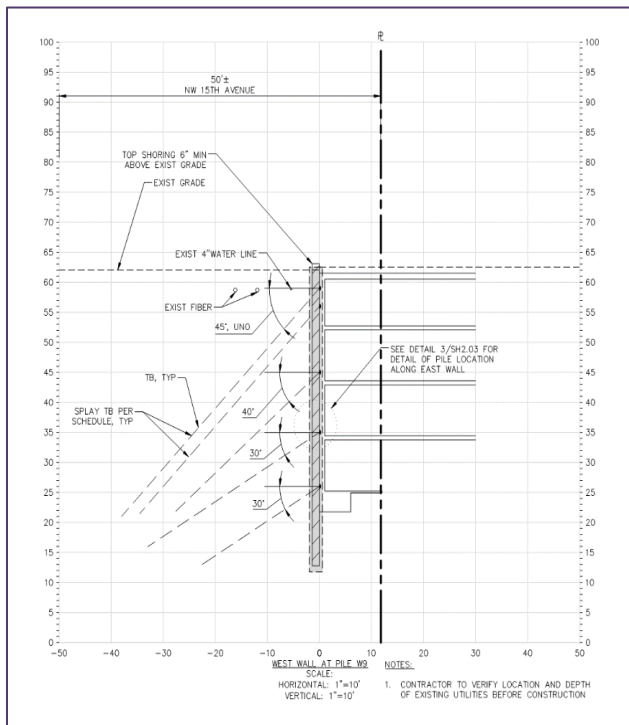
Alta Via Drive Road Repair – Camano Island, WA

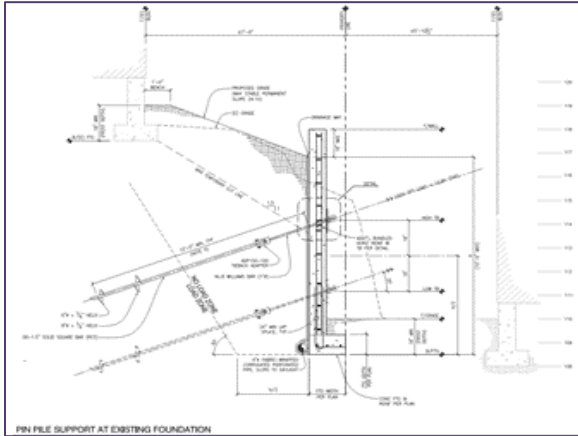
Permanent shoring and regrading along an existing road was installed to improve global slope stability. The shoring consisted of driven cantilevered H-piles. Design challenges included low soil strength parameters based on unique site conditions.



Mixed-Use Office Building - Portland, WA

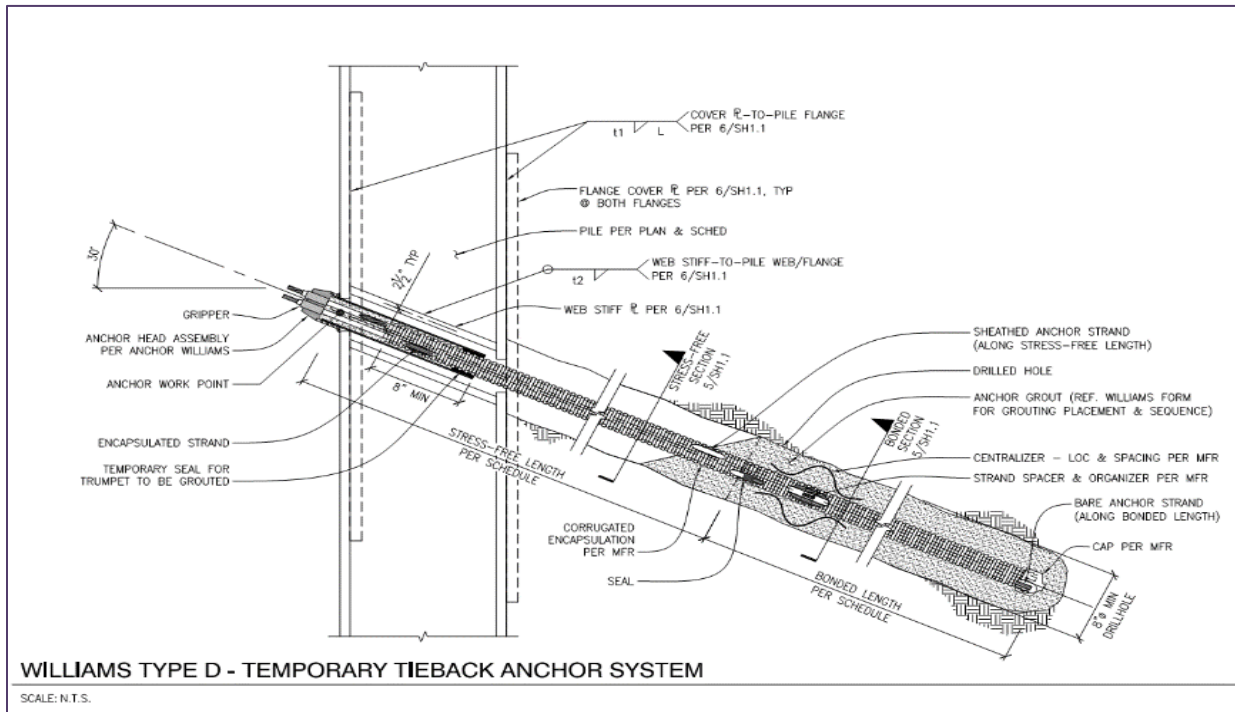
This project consisted of temporary shoring for a 15-story mixed-use building with three levels of below-grade parking. The shoring consists of augured soldier piles with multiple rows of tiebacks. Tight property line constraints and adjacent utility placement required variable rake and plunge angles of the tiebacks.





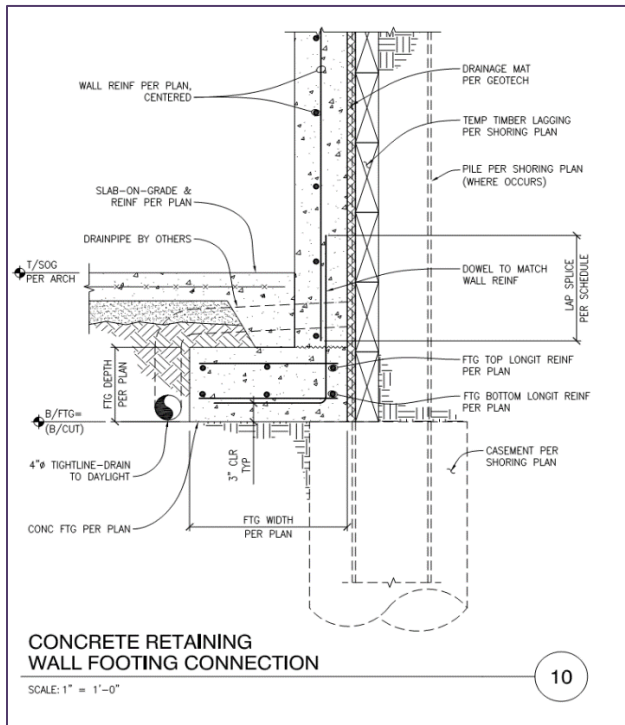
Private Residence – Seattle, WA

Permanent shoring adjacent to an existing single-family home was required to stabilize a steep slope. The shoring consisted of a tieback cast-in-place concrete wall.



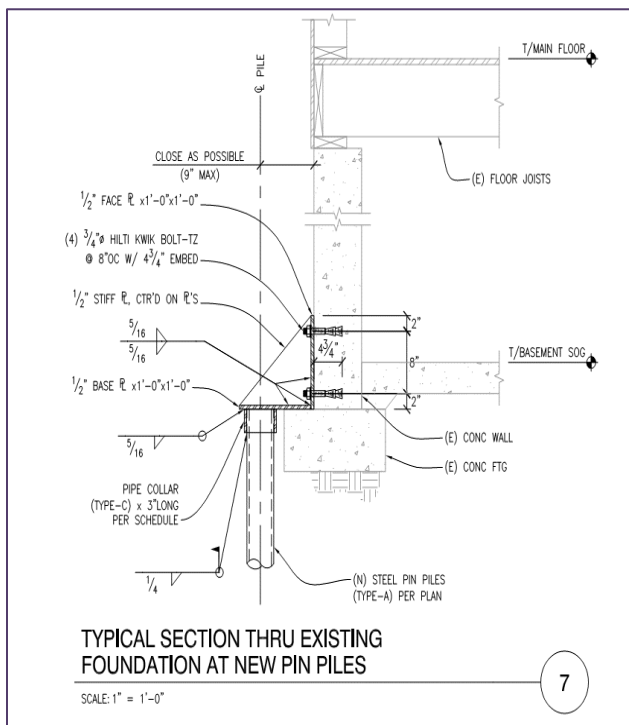
Main Street Shoring – Kirkland, WA

New construction required temporary shoring on four sides to support excavations to a maximum depth of 40 feet. The shoring consists of augercast soldier piles with multiple rows of tiebacks.



Private Residence Shoring – Bellevue, WA

Temporary shoring was installed on three sides of a private residence to enable the placement of permanent concrete retaining walls. The site had exceptionally steep slopes from the top of the wall, which created high surcharge design loading



Private Residence Shoring – Seattle, WA

This permanent shoring consists of a cantilevered soldier pile wall and underpinning support for the existing foundation. This project was necessitated by a shallow slope stability failure which partially undermined the footing. The intent of the design was to both stabilize the hill side and provide additional vertical support of the house.