



Top left: View of the bulkhead looking east. Bottom left: View to the west. Above: View of the north face of the bulkhead wall.

Costco Wholesale – New Bulkhead and Shoreline Stabilization

Queens, NY

Mueser Rutledge Consulting Engineers (MRCE) has provided engineering services to Costco Wholesale since 1995 through Costco's architect, Mulvanny G2 Architecture. Work included performing a geotechnical investigation and a diver inspection of the old bulkhead. More recently, MRCE performed an analysis and design of a new anchored sheet pile bulkhead pinned into the rock, including preparation of drawings, specifications and construction cost estimate. Work also included providing construction support services including shop drawing review and field inspection.

MRCE is currently preparing a design for a new retaining wall structure to stabilize the existing shoreline embankment.