



Berths 57-59 Wharf Port of Oakland, California

Liftech designed a new 3,600 foot container wharf for the Port of Oakland at Berths 57-59. This \$90 million construction project gives the port a state-of-the-art facility designed to resist the highest probable earthquakes with minimum damage. The wharf serves six new container cranes for which Liftech provided design and fabrication review.

The innovative wharf design used 48 inch diameter cylinder piles and standard 24 inch prestressed piles in combination with cement deep soil mixing (CDSM). Liftech also developed a new ductile shear key design for use between wharf sections that is economical and easily repairable.

The project involved excavation of 2.1 million cubic yards of soil; stockpiling, testing, and treating 400,000 cubic yards of material; installation of CDSM walls, large diameter piling, and storm drains; and construction of an embankment dike and fill that was incorporated into Middle Harbor Shoreline Park.

Reference:
Port of Oakland
Oakland, California