



PROJECT TITLE: Structural Repairs to Piers 20-24
CONTRACT NO.: N62470-91-C-0506
LOCATION: Naval Station Norfolk, Norfolk, Virginia
AWARD DATE: October 1992 **COMPLETION DATE:** November 1997
FINAL VALUE: \$0-1 Mil \$1-5 Mil \$5-10 Mil \$10-20 Mil
 \$20-30 Mil \$30-40 Mil \$40-50 Mil \$50+ Mil
TYPE OF CONTRACT: Fixed Price Cost Reimbursable

PROJECT DESCRIPTION:

Our contract to perform extensive repairs to four (4) of the most actively used submarine piers included structural repairs to piles, pilecaps, beams, slabs, curbing, fender system, and replacement of center portions of the pier deck and supporting structures. Broken concrete was loaded on barges and towed to the Chesapeake Bay where it was unloaded on an artificial reef owned by the state. In addition, mechanical work included the demolition and disposal of steam pipe insulation containing asbestos fibers, replacement of existing steam pipe demolition, disposal and installation of new potable water lines with associated backflow preventers, demolition of fuel lines and the replacement of the vault ventilation systems. After completion of the structural repairs on Pier 23, the Navy determined the existing electrical distribution was unsafe and the electrical system was red-tagged and condemned.

In order to expedite this major renovation, W. F. Magann Corporation entered into a partnering agreement to select a design team, work in coordination with Public Works, select subcontractors, and fast track the project from start to finish. This project would have taken two years to implement and complete; however, all work was designed and completed and the pier released for occupancy in ten months.

W. F. Magann Corporation performed the structural repairs, concrete demolition, pile driving, fender repairs, hauling concrete work, miscellaneous metal installation, epoxy repairs, pneumatic concrete repairs (gunite), excavation, cast-in-place ductbanks, backfill and placement of broken concrete on the reef using our own manpower and company owned equipment including cranes, barges, floating rigs, and required tug boats.

We placed over 7,000 cubic yards of concrete, repaired over 40,000 square feet of caps and beams, installed over 350 fender piles with related wale structures, and installed over 150,000 linear feet of various pipe.