



## Port Tampa Bay, Berth 223 Tampa, Florida

### Renovation

Marine improvements to Berth 223, including removal of an existing bulkhead and relocating a new bulkhead to create a deep-water berthing facility for unloading liquid cargo, as well as relocating an existing hose tower and repositioning pressure piping from the tower to the yard distribution system.

The new bulkhead consists of 1,100 linear ft. of high-modulus HZ combination steel H-pile and sheet pile, with concrete encasement, coating, and sacrificial anodes. Wall anchorage varied from conventional to soil anchors, based on the clearance behind the new alignment. Project design water depth was -41 ft. MLW, a surcharge loading of 1,000 lbs. per sq. ft. with fenders, and moorings for 50,000 gross ton tankers.

Services performed included planning, surveying, permitting, design and construction, with material testing, and tenant/project coordination.

**Completed**  
April 2005

### Nature of Responsibility

Gary Schneider, P.E., Project Manager, Design  
QC Manager  
Steve Walton, P.E., Task Manager

### Client Representative

Bruce Laurion, Sr. Director of Engineering  
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