



Colonna's Shipyard Piers Norfolk, Virginia

Marine Transportation Facility

Design-build a marine facility consisting of two concrete piers atop prestressed concrete piles to support the eastern seaboard's largest travelift, a 103 ft. long x 66 ft. tall machine, with 11 ft. 9 in. tires, that lifts boats and yachts up to 300 ft. long, 50 ft. wide, and weighing up to 2.2 million lbs.

Tampa, Florida-based Misener Marine Construction, part of the Orion Marine Group network of companies, was awarded the project and assigned SEC to lead the design. Together, the team created a value-added design that surpassed client expectations

Because of the accelerated schedule, the deck structure was formed with prestressed concrete planks and a cast-in-place concrete deck. The design and construction of a steel-sheet pile bulkhead along the head of the piers was used to achieve the desired depth along the entire pier. Permit support and professional services were provided throughout the project, including in-depth soil testing and analysis along the bulkhead and piers to determine how best to improve weak soil conditions to adequately meet heavy load capacity needs.

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Completed
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Nature of Responsibility

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

Project Owner's Representative

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