



# Sea Wall Foundation Report

<b>Project:</b> Sea Wall Tie Back System St. Simons Island, Georgia Owner: Mr. Del Masters, General Contractor: Johnson Partners LLC	<b>Installation Contractor:</b> Coastal Foundations Inc.	<b>Engineering:</b> Contracted by Johnson and Partners
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### Description:

The General Contractor required a Sea Wall be constructed prior to breaking ground for summer home on a private hammock named Little Hawkins Island, adjacent St. Simons Island, Georgia.

Coastal Foundations, presented HPS piers to the development team as a viable option to tieback the sea wall. The sea wall is to span 500 feet providing the necessary erosion control and protection from the River. This approach provided savings in labor and construction time.

### Design:

Thirty 2-7/8-inch diameter foundation anchors with a 10x12x14-inch helix configuration, installed to a depth of 10-feet at a 25-degree angle were specified for the project. Each anchor point needed to provide an ultimate load capacity of 15 kips.

Precast concrete panels 33'x4' weighing 7.5 tons each were jettied in place with a high output diesel pump. The tie back anchor were then installed on 8' centers and cast into the 2'10" x 2' 8' concrete cap.

### Construction:

Coastal Foundations installed 67 piers over a ten-day period with a crew of 2 men. Each pier was driven to a final torque of 8000ft-lbs.



HELICAL PIER SYSTEMS

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