

Christophe Harbour Marine Construction and Earthwork

Christophe Harbour Development Company, Limited

St. Kitts, West Indies

Services Rendered

- Marina Market Assessment
- Engineering Feasibility
- Marina Planning
- Coastal Engineering
- Water Quality Modeling
- Flood Assessment
- Marine Earthwork Planning
- Bulkhead design
- Entrance Channel Jetty Design
- Marina Harbor Conceptual Design
- Development of Bid and Construction Documents
- Construction Observation



Project Summary

Christophe Harbour Development Company, Limited, began planning for the Christophe Harbour resort development on the Southeastern Peninsula (SEP) of St. Kitts in 2007. The project involves the creation of a harbor, lagoon, and islands from the Little Salt Pond and Great Salt Pond that currently occupy much of the SEP. When completed, Christophe Harbour will feature a state of the art megayacht marina capable of accommodating vessels up to 300 ft LOA, a Mediterranean-inspired marina village, several five-star hotels, various upscale residential products, as well as a Fazio signature golf course.

The evolution of the project wide earthwork effort has required close coordination between Design Works (land planning consultant), S&ME (geotechnical consulting), Thomas & Hutton (site civil consultant) and ATM. Development of the marina plan has required several numeric modeling tasks to determine appropriate flood elevations, size and orientation of entrance jetties and evaluation of harbor and lagoon water quality.

When completed, the Marine Construction and Earthwork project at Christophe Harbour will have resulted in approximately 180-acres of reclaimed/improved land, a marina harbor featuring more than 200 dedicated slips, over 3,500 LF of side-tie berthing, and over 3,700 LF of vertical bulkhead. The remaining harbor and lagoon shorelines are to be treated with either sloped rock revetment or littoral shelves and slopes planted with native, salt-tolerant vegetation. The harbor will be sheltered from wave penetration by two large rock jetties. The larger north jetty will consist of up to 25-ton armor units and will provide the primary storm protection.