

Summary: Erickson Consulting Engineers, Inc. (ECE) provided coastal and marine engineering services including planning, design, engineering and environmental services to engineer a beach and lagoon system in a cove configuration, creating a recreational beach and ocean water access for a large, high end, private home on an expansive lot located in the Turks and Caicos Islands.

Key Project Elements:

- Detailed Field Investigations
 - Topographic Survey of the Uplands
 - Hydrographic Surveys of the Nearshore Area
 - Terrestrial Mapping and Habitat Analysis
 - Benthic Resource Mapping and Habitat Analysis
 - Protected Species Survey

- Design and Permitting
 - Feasibility Study
 - Project Design Basis
 - Large Scale Excavation and Resource Management Plan
 - Excavation Stability Analysis
 - Flushing Modeling and Analysis
 - Construction Methods and Sequencing Plan
 - Estimation of Quantities, Costs and Construction Schedules
 - Assessment of Project Impacts (Environmental, Social and Economic)

- Environmental Assessments
 - Environmental Impact Assessment
 - Monitoring and Mitigation Plan
 - Protected Vegetative Species Relocation
 - Lagoon Vegetation Plan



ECE's design provides homeowners and tourist guests the opportunity to enjoy a recreational beach and have safe access to the Caicos Bank. The project's design will enhance biodiversity, aesthetics and function of the property and provide a unique landscape not found along this coastline.