

Isla de Holbox Resort Development

Peninsula Maya Development

Mexico

Services Rendered

- Master Planning Support
- Site Assessments
- Coastal Engineering
- Marina Feasibility Studies
- Infrastructure Planning and Design
- Environmental Support
- Environmental Impact Assessment
- Marina Feasibility Study
- Surveying Services
- Modeling



Project Summary

Holbox is a large-scale master planned multi-resort development encompassing over 4,000 hectares of property on an island just off the northern tip of the Yucatan Peninsula. The development extends the length of Isla de Holbox and potentially includes residential, luxury hotels, golf courses, marinas, a village center, and other resort amenities.

ATM has assisted the developer with a variety of resort planning, engineering, and environmental services along various stages of the project. Initial services included site assessments and feasibility studies for marina and coastal engineering as well as marina market evaluations, and master planning efforts for multiple marine facilities including a dry storage facility and over 400 wet slips.

Infrastructure support services have included development of a water treatment and distribution system, wastewater collection and treatment system, stormwater system, roadway and canal alignments, electrical generation and distribution system and reuse system for the resort development and for the associated staff housing complex. The master plan analyzed the infrastructure needs for the island utilizing a phased approach and resulted in master plan layouts of the various infrastructure components in single line diagram format and order of magnitude cost estimate. Substantial coordination with other members of the project team was required during the course of the project. ATM also evaluated the feasibility of implementing sustainable energy generators for meeting the energy needs of the island facility.

Coastal engineering assistance included evaluation of sediment transport, dredging requirements, shoreline stability, and flooding issues. Additionally, ATM assisted with conceptualizing a waterborne transportation system to provide commercial (materials, equipment, staff, etc.) and resort (residents and guests) access and services to this island destination.

Environmental services have included evaluation of the environmental impacts associated with the development on the island. This includes evaluation of baseline environmental conditions and providing support through the conceptual planning phase of the development to minimize potential environmental impacts and promote an ecologically sustainable overall project.