



# CIVIL ENGINEERING



## FEATURED PROJECT *SILVER FOX LANDING*

EARTHWORKS was retained by Foxworth Development to provide full scope civil engineering design services for a multiphase residential development adjacent to the Atlantic Intracoastal Waterway (AIWW) near Myrtle Beach, SC. This site was divided into four phases with over 139 single family lots on 121 acres. The project also included an amenity area with a pierhead and a community pool overlooking the waterway.

The project design included master planning the water, sewer and stormwater utilities to ensure a seamless transition between phases. The site was planned around a significant hardwood river swamp which was utilized as a buffer behind many of the homes on the bluff. This project was completed successfully and the client was able to obtain additional property adjacent to the first phase to build an additional 62 lots on 15 acres.

## EARTHWORKS' Civil Engineering Services

The preparation of a comprehensive land use plan is vital to an attractive, functional development. The different elements such as the design of road and stormwater systems are the first step in the creation of a successful project. State and local design requirements for stormwater systems address water quality and quantity issues. These must be balanced with project aesthetics so that the finished product is appealing to the consumer. The water and sewer infrastructure must be designed to fit within the site constraints and engineered to meet State health standards for construction.

EARTHWORKS uses the latest CAD technology to ensure accurate designs which integrate multiple layers of information, while meeting all of the requirements of local, state, and federal regulations. We field check our designs to ensure that the project will work at the site as well as it does on paper – a project must be buildable to succeed.

Our Land Development Team draws on the expertise of its staff members skilled in all aspects of site engineering including: water and wastewater utilities systems; drainage and detention facilities; planning and zoning; traffic; roadways; paving and site grading.



Special studies include:

- Watershed Analysis
- Hydraulic Analysis of Water Systems
- Floodplain Determinations
- Stormwater Pollution Prevention Plans (SWPPP)

EARTHWORKS' team members are skilled at navigating through an increasingly complex maze of regulatory requirements to minimize risks and enhance possibilities. Our team prides itself on problem solving and is eager to work for you. EARTHWORKS provides a full range of services to developers, municipalities, homeowner associations, architectural teams, and construction companies. Our experience covers a diversity of project types, including residential subdivisions, commercial developments, industrial parks, stormwater improvements, and water and wastewater distribution and treatment.