



Coastal Land Design, PLLC

Civil Engineering/Landscape Architecture

Quinn McGowen Funeral Home

Client:

Debnam Services, Inc.
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Began: Oct. 2008 Completed: March 2011

The Quinn McGowen Funeral Home Project consists of a structure and maximum parking on a one acre parcel in Wilmington, North Carolina. The owner and architect prepared a conceptual plan and employed Coastal Land Design PLLC (CLD) to prepare the site plan for City Approval with limited deviations. The challenges before CLD not only embraced the grading for the proposed improvements, but required an innovative approach to stormwater management.

After site investigation and testing, the various stormwater designs began to focus on bioretention as a water quality measure. Due to shallow seasonal high groundwater levels, the site required additional fill to elevate the improvements and create the required separation of the bioretention device and groundwater level. In concert with the water quality measures, the pre-development and post-development runoff had to be incorporated in the design.

In order to meet the water quality and quantity requirements, the bioretention device was oversized and incorporated as part of the site landscape requirements. In order to reduce the site impervious area, pervious concrete was selected as the parking pavement with limited asphalt areas.

The project has been approved by both NCDENR and the City Engineering/Stormwater Division. Construction has recently finished and the business is operating with the assistance of CLD performing the necessary certifications to the governing agencies.

