

# **MIAMI-DADE COUNTY PARK AND RECREATION DEPARTMENT – GOLF CLUB OF MIAMI – PARKING LOT, MAIN ENTRANCE DRIVE, AND GOLF DRIVING RANGE CIVIL ENGINEERING IMPROVEMENTS**

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**Client Name:** *Miami-Dade County Park and Recreation Department/Wallace Roberts & Todd, LLC (Prime)*

**Type of Service:** *Design of Parking Lot, Redesign of Existing Driveway Connection and Improvements to Golf Driving Range*

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Milian, Swain & Associates, Inc. (MSA) provided civil design required for the Golf Club of Miami. MSA prepared construction drawings of the on-site paving, grading, and drainage required for the new driving range, parking area, overflow parking area, and the redesign of the existing driveway connection to NW 186 Street. Our services included sub-consulting surveying, drainage testing, and electrical and structural engineering services. MSA's scope of services included the following:

## **Design, Specifications and Regulatory Process**

***Drainage Testing*** - MSA identified the drainage tests required for the drainage design of the new parking areas, main entrance driveway, and new golf driving range, and prepared Drainage Test Location Maps. MSA retained the services of Intercounty Testing Laboratories, Inc. (ICL) to perform standard Constant Head Usual Open-Hole tests and Double-Ring Infiltration tests. The Open Hole tests were performed at a depth of fifteen feet from existing grade as required by Miami-Dade County Department of Environmental Resources Management (DERM). Signed and sealed copies of the test results were submitted to the client.

***Civil Engineering*** - MSA prepared construction drawings and technical specifications for the site civil improvements required, including civil demolition/relocation plans, paving, grading, drainage, traffic signage and pavement markings plans, and Statements of Probable Construction Costs. MSA assisted the client in obtaining approvals from the regulatory agencies having jurisdiction over the proposed site civil improvements and attended coordination meetings.

***Electrical Engineering*** - MSA retained the services of an electrical engineer registered in the State of Florida to prepare construction drawings and technical specifications for the parking lot lighting improvements and for the demolition and relocation of selected electrical components within the new golf driving range, including assistance in obtaining approvals from the regulatory agencies having jurisdiction over the proposed electrical improvements.

***Structural Engineering*** - MSA retained the services of a structural engineer registered in the State of Florida to prepare construction drawings and technical specifications required for the foundation of the new parking lot light poles and for the foundation of the new high mast poles that were needed to support the driving range perimeter net, including assistance in obtaining approvals from the regulatory agencies having jurisdiction over the proposed structural improvements.

## **Bidding and Construction Services**

MSA attended Pre-Bid Meeting; responded to Requests for Information/Clarifications from bidders; and prepared addenda of the civil, electrical, and structural construction drawings and specifications. MSA also attended the Pre-Construction Meeting; reviewed civil, electrical, and structural shop drawings; and performed field inspections at critical construction stages of the civil, electrical, and structural work.