

# HOMESTEAD REGIONAL AIRPORT – WATER AND SEWER MASTER PLAN AND DESIGN/CIVIL AND ENVIRONMENTAL ENGINEERING

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**Client Name:** *Miami-Dade County Aviation Department.*

**Type of Service:** *Water and Sewer Master Plan & Design/Civil & Environmental Engineering*

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Milian, Swain & Associates, Inc. (MSA) performed the analysis, design, and preparation of construction drawings for the Water and Sewer Infrastructure Improvements - Phase I, Homestead Regional Airport:

## **Water Distribution System**

Using the design data and parameters provided by Miami-Dade Aviation Department (MDAD), a hydraulic model was developed to determine and verify the proposed water main sizes depicted in the Phase I Infrastructure Project Book. MSA then prepared construction drawings for approximately 20,000

LF of new water mains connecting to two Miami-Dade Water and Sewer Department (MDWASD) metering stations.

## **Sewage Collection, Transmission and Pumping Systems**

MSA utilized the design data and parameters provided by MDAD to develop a hydraulic model to determine the proposed Phase I sewage force main and gravity system improvements, as depicted in the Phase I Infrastructure Project Book. MSA designed and prepared construction drawings for approximately 3,000 LF of gravity collection system and 7,000 LF of force main. In addition, two new regional pump stations were designed to collect flows from the adjacent private development areas.

MSA was also required to prepare the Storm Water Pollution Prevention Plan (SWPPP) for the proposed improvements in conformance with the SWPP Guidance Manual, and the Construction Specification Institute (CSI) front-end and technical specifications following MDAD and MDWASD criteria.

Finally, MSA assisted MDAD in obtaining approvals from the pertinent regulatory agencies.

