

PROJECT SUMMARY

Project Name:
Broward County Mast Arms

Owner:
Broward County

Client:
Calvin, Giordano & Associates, Inc.

Project Information:
Location: Broward County, Florida

This project involved 20 planned intersections for mast arm traffic signal conversions and pavement improvements.

RADISE provided Geotechnical Engineering services including field exploration/testing and laboratory testing conducted at RADISE's lab to determine the stratigraphy and physical properties of the soils for design of the drilled shaft foundations and subsequent mast arms at the proposed locations.



Conducted site visits for field reconnaissance to observe existing site conditions, Reviewed the available geotechnical literature.

Mobilized a truck mounted drill rig and crew to the project site, set up maintenance of traffic at the work areas for traffic control and safety.



The field exploration to support the mast arm and overhead sign design included a 40' Standard Penetration Test (SPT) boring for each mast arm foundation location. Collected soil samples continuously to depths of 10 feet below ground surface, and then at 5-foot depth intervals to the boring termination depth.

Laboratory testing included moisture content, Atterberg limits, organic content, standard index testing and corrosivity testing.

Provided asphalt core services and pavement evaluation to determine the roadway intersection existing pavement and base course type and layer thicknesses, evaluated the pavement conditions and provided improvement recommendations.

PROJECT ELEMENTS

- 20 Planned Intersections for Mast Arm Traffic Signal Conversions
- Pavement Improvements

RADISE ROLE:

GEOTECHNICAL ENGINEERING - Field Exploration/Testing and Laboratory Testing

- SPT Borings
- Laboratory Testing
- Moisture Content
- Atterberg Limits
- Organic Content
- Standard Index Testing
- Corrosivity Testing
- Maintenance Of Traffic
- Pavement Cores
- Pavement Evaluation