

## PROJECT SUMMARY

**Project Name:**  
**All Aboard Florida**

**Owner:**  
All Aboard Florida/Florida East Coast Railway  
**Client:**  
Jacobs Engineering

**Project Information:**  
Location: Orange County, Florida

This project is for the development of a 235-mile intercity, high-speed passenger railroad system that will connect Orlando and Miami with intermediate stops in Ft. Lauderdale and West Palm Beach, Florida.

The project is composed of two connected corridors: a north-south corridor of approximately 195 miles from Cocoa to Miami within the existing rail right-of-way along Florida's



east coast (FEC corridor), and an east-west corridor of approximately 40 miles from Cocoa to the Orlando International Airport.

RADISE provided Geotechnical Engineering for 17 miles of the segment, as well as 5 railway bridges and 5 highway bridges. The limits were from 1 mile East of SR-520 to Orlando International Airport.

Geotechnical investigation included site reconnaissance, performing pavement cores, shallow soil borings along the roadway and railway alignments, and deep standard penetration test (SPT) borings at the bridge location to identify the existing subsurface soil conditions, groundwater levels present and the seasonal high groundwater table. Representative soil samples were identified for further index testing including gradations, organic content and moisture content testing.

Some of the work was performed in remote, heavily-wooded locations and wetlands using multiple rig-types, and under an aggressive schedule. The work also involved multi-agency and private property owner coordination.

### PROJECT ELEMENTS

- Development of a 235-Mile Intercity, High-Speed Passenger Railroad System
- 20 Bridge Structures
- Runway Expansion

### RADISE ROLE:

**GEOTECHNICAL ENGINEERING -**  
Field Exploration/Testing and  
Laboratory Testing

- SPT Borings
- Gradations Testing
- Organic Content
- Moisture Content Testing
- Undisturbed Sampling
- Auger Borings
- Muck Probes