



CSI Geo provided geotechnical engineering services for the I-95 at I-10 Operational Improvements project in downtown Jacksonville, Florida. Improvements are proposed along I-10 from McDuff Avenue to the I-95 Interchange, then along I-95 over the Fuller Warren Bridge across the St. Johns River to just west of the FEC Railroad and San Marco Boulevard.

Overall, the project consists of widening five bridges, construction of a new flyover bridge, and a mechanically stabilized earth (MSE) approach embankment. The main project feature is the widening of the Fuller Warren Bridge over the St. Johns River (pictured).

CSI Geo conducted an extensive subsurface investigation, which required the mobilization of two spud barges into the St. Johns River, at times within the navigational channel. The subsurface investigation within the river included Standard Penetration Test (SPT) borings at each pier location, coring of the limestone formation, and collection of undisturbed samples within the marl formation. Additionally, pressure meter testing (PMT) equipment was mobilized and in situ PMT was performed within the marl formation beneath the St. Johns River.

Extensive laboratory testing was performed on the soil samples retrieved. Strength tests were performed on the limestone core samples as well as the undisturbed marl formation samples.

**Client**  
FDOT District 2

**Location**  
Duval County, FL

**Services**

- Geotechnical Engineering
- MSE Walls
- Bridge Widening
- New Flyover Bridge

**Project Manager**  
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**RS&H**  
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