

Fuller Warren Bridge

Jacksonville, FL



Helping Jacksonville's Traffic Problems!

The Fuller Warren Bridge was originally built in 2002 to connect the San Marco and Riverside areas of Jacksonville. Jacksonville is very much a city on the move with a 20% increase in traffic expected over the next 20 years so the decision was made to expand the Fuller Warren Bridge. The finished expansion will include a new lane of traffic in each direction and also a Shared Use Path (SUP) for pedestrians and cyclists.

Subsurface stratigraphy in the river area mainly consists of weathered limestone underlain by a layer of hard Calcareous Silty Sand (Marl). Drilled Shafts were constructed to support the new expansion. Loadtest assisted Archer Western in the construction of the test piles which consisted of 4 drilled shafts varying from 60 to 135 feet in length and 60 to 84 inches in diameter. Loadtest provided one O-cell® assembly and between 5 and 12 levels of Strain Gages for each shaft. Loadtest also completed a **SONICALIPER** profile of the shaft to confirm the shape and verticality of the shaft.

After the concrete had gained sufficient strength, Loadtest returned to site to conduct the O-cell® test. The goal of the load test was to provide side shear and unit end bearing values for the rock socket. Through the use of the Strain Gages and the **SONICALIPER** profile, Loadtest were able to determine these values accurately providing the design engineers reliable information on which to base their design.

Project Info	
Owners:	Florida DOT
General Contractors:	Archer Western
Geotechnical Consultants:	Universal Engineering Sciences
Drilling Contractor:	Case Atlantic
Project Cost:	\$126 million
Completion Date:	Summer 2020

Services Provided
■ 4 Single Level O-Cell® Load Test.
■ Load Test Program Design
■ SONICALIPER Shaft Profiling

