



Client

United States Navy

URS Group, Inc.
Fred Walker, PE
(813) 286-1711

Location

Jacksonville, FL

Service(s)

Geotechnical Engineering

Project Engineer(s)

- Bruce Khosrozadeh, PE
- Carlos Cepero, PE

This project is among CSI Geo's projects located at Naval Air Station Jacksonville. This facility is a 30,954 SF one-story child care structure. The facility design is brick veneer, with a standing seam metal roof. Our services included the following elements.

EXPLORATION: CSI Geo staff provided all geotechnical exploration services necessary to evaluate the site for the proposed construction, which included:

- Standard Penetration Test (SPT) borings to a depth of 40' below the ground surface
- Routine laboratory testing on representative soil samples to determine classification and soil behavioral properties

ENGINEERING EVALUATION: CSI Geo staff provided findings and recommendations based on the information gathered during the geotechnical exploration, which included:

- A description of the various site conditions
- Boring logs with a graphic representation of the soil borings
- Results of laboratory test performed
- A summary of all field and laboratory testing procedures performed
- Water table information
- A brief description of subsurface conditions encountered at each boring
- Evaluation of the subsurface conditions for support of the planned structures
- Shallow foundation analyses including settlement and bearing capacity
- Recommendations for ground improvement
- Driven pile capacity analysis
- Auger-cast pile capacity analysis
- Recommendations for pile spacing based on pile group effects
- Floor slab construction recommendations
- Pool construction recommendations
- Evaluation of paved parking areas
- Seismic analysis and classification