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# Keystone Airpark Authority ROTATING BEACON AND TOWER AT KEYSTONE AIRPARK



## Client

Keystone Airpark Authority

URS Corporation South  
Bill Prange, PE  
386-754-9053

## Location

Starke, Florida

## Services

- Geotechnical Engineering

## Project Engineer

- Bruce Khosrozadeh, PE

The project included the construction of a 70-foot AGL monopole tower for the new airport rotating beacon. The site was located just north of T-Hanger B, approximately 50 feet to the east of an existing water tank, and 100 feet east of an existing building.

To explore the subsurface conditions within the proposed tower location, one Standard Penetration Test (SPT) boring was performed to a depth of 40 feet below the existing grades. Soil samples obtained during the field exploration program were visually classified in the field and then reviewed and reclassified, as needed, by a geotechnical engineer. Laboratory testing was performed on a selected sample of the soils recovered from the field exploration. The laboratory testing was necessary to better define the physical composition of the soils encountered. Laboratory tests were performed to determine the fines content and natural moisture content of the selected soil sample.

CSI Geo used field and laboratory test data to evaluate design and construction requirements for the proposed construction, including recommendations for shallow foundations, drilled shafts, site preparation, and earthwork.

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