

FORSCOM/USARC Combined Headquarters

Fort Bragg, North Carolina

Owner

U.S. Army Corps of Engineers,
Savannah District

Lead Architect

Fentress Architects

Associate Architect

Giuliani & Associates Architects

Contractor

Hensel Phelps Construction Company

Steel Design-Builder

Steelfab, Inc.

Completion Date

2011

Construction Cost

\$304.2 million

Total Area

827,000 sf



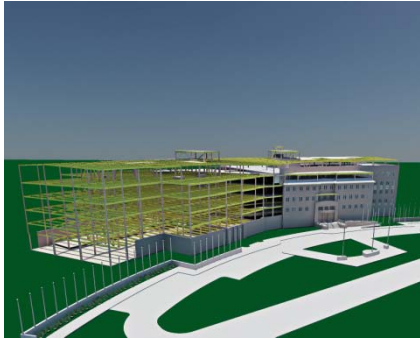
Photo: U.S. Army photo by Jim Hinnant, U.S. Army Forces Command

Thornton Tomasetti performed structural services for a design-build contract to provide a multi-building complex for the U.S. Army Forces Command and the U.S. Army Reserve Command. The project consists of a 708,000-square-foot joint command headquarters building as well as four information technology buildings, totaling 83,000-square feet, and a 36,000-square-foot energy plant located on a different area of the base. Sustainability design criteria call for a minimum of LEED Silver certification.

The design features raised access flooring, Sensitive Compartmented Information Facility (SCIF) areas, Uniform Facilities Criteria for blast mitigation and AT/FP design. The project also includes a 100-foot-wide, column-free briefing room.

Our engineers took full advantage of the collaboration and flexibility offered by design-build delivery to streamline the design process. We teamed directly with the steel fabricator to accelerate material procurement and worked closely with the precast supplier to develop a self-supporting façade system that decreased loads on the steel frame, reducing total tonnage.

The complex – designated an essential facility – includes rigorous seismic requirements and strict force protection criteria. We also performed thermal analyses to confirm that the 500-foot-long structure could be built without expansion joints, which improved progressive collapse avoidance performance while simplifying construction detailing for multiple trades.



Revit model: Thornton Tomasetti