

Fort Pickett Regional Training Institute Phase II

Blackstone, VA



Project Information

Function	Billeting Buildings
Project Cost	\$28 Million
Total Stories	2
Size	116,400 SF
Construction Dates	10/25/10-12/31/11
Delivery Method	Design-Build

Project Team

Owner	Virginia Army National Guard
Project Administrator	Army Corps of Engineers
Design/Builder	Barton Malow Company
Structural	Desai/Nasar Consulting
Civil	Mindel, Scott, & Associates
Electrical	ETS Engineers
Mechanical/Plumbing	Sellinger Associates

Special Thanks To:



Architecture

- The three billeting buildings are placed around the perimeter of the ceremonial quadrangle drawing focus to the administration building.
- The billeting buildings utilize identical designs and material associated with modern-day office buildings.

Construction

- The three billeting buildings were constructed in a phased approach consisting of six areas (3 buildings with 2 floors) where each area lagged the previous area by one week.
- This lag was believed to minimize the learning curve, increase efficiency, and maintain crew sizes.

Electrical

- Each building features an electrical room that houses an 800A switchboard at 277/480V/3PH/4W that services a 277/480 lighting panel and power distribution panels for mechanical loads.
- The electrical rooms have transformers serving 120/208V panelboards servicing receptacles, washers, dryers, 208V heat pumps, and all 120V mechanical equipment.

Mechanical

- Features a central closed water loop heat pump system.
- Heat pumps are located throughout the buildings and control 3-5 rooms per heat pump, which allows for a closer match between actual heating /cooling temperature and user desirability.

Structural

- Each building is supported by spread and continuous footings with a 4" slab on grade.
- The second floor is composed of hollow-core planks with a 2" concrete topping slab.
- The structure consists of cold formed metal stud bearing walls, roof trusses, and SIPs.