PROJECT SHEET

PARSONS ELECTRIC, INC.
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KENTUCKY DEPARTMENT OF MILITARY AFFAIRS

BLUEGRASS STATION DIVISION
AIRCRAFT REPAIR FACILITY HANGAR
LEXINGTON, KENTUCKY
26,608 sf

PROJECT DESCRIPTION:

The Kentucky Department of Military Affairs, Bluegrass Station Division, owns and operates the former Avon Military Base, providing contract maintenance services to the U.S. Department of Defense.

The facility is a pre-engineered building type construction with structural steel framing, pre-finished metal wall panels, standing seam pre-finished metal roof, and concrete floor. The facility is an addition to an existing aircraft repair facility hangar. The building interior consists of a maintenance hangar, private office areas, conference room, break room, computer closet, restrooms, tool/supply room, and utility room. Parsons provided design/build services for the lighting, power, static grounding, and fire alarm systems, preparing all construction drawings and providing installation of the electrical systems.

The power distribution system consists of riser pole, 500 KVA pad-mount transformer, 1200 amp 480Y/277 volt main switchboard, (4) panelboards, (1) step-down transformer, 400 Hz power system, and connection means for portable generator backup of entire facility. Parsons provided all power distribution system design.

The lighting system includes 8-lamp T5 high output fluorescent high bay fixtures in the hangar, energy efficient fluorescent fixtures in office and support areas, and security lighting on the exterior. Lighting controls were designed to conform to the latest energy conservation code and include ceiling and wall mounted occupancy sensors. Exit and egress lighting to meet the building code requirements was also provided. Parsons provided all lighting system design.

The static grounding system consists of flush floor mounted static ground receptacles on the tarmac and in the hangar, interconnecting cables and connections. Parsons provided the design for this system to meet current military standards.

The fire alarm system consists of power booster, horn/strobe units, pull stations, and sprinkler system monitoring. The new system was connected to an existing system in an adjacent hangar.