

Owner: Kentucky Finance Cabinet - DECA
User Agency: KCTCS
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Building Area: 149,400 s.f.
Construction Cost: \$9.5 Million
Project Status: Completed Dec. 2017

Ashland Community & Technical College

ACTC Main Campus – HVAC Renovation



Project Description:

Major renovation/replacement of existing HVAC System, Lighting, Technology Systems and Fire Protection. Facility contains teaching classrooms, college administration, bookstore, restaurant area, college presidential suite, financial services, nursing programs, science labs and testing labs.

Engineering Highlights:

Electrical / Systems:

All new data systems and equipment was installed throughout the entire building. One MDF room serving five IDF rooms were created with standalone air conditioning systems. 50% of all IT systems are served by a new 250 KW natural gas generator that will also serve elevators and perimeter heating pumps and boilers.

HVAC:

75% of this building was served by electrical reheat VAV boxes and electrical resistance perimeter heating. Converting the electrical based heating to natural gas hot water will save the Owner an estimated \$ 100,000 per year in utility bills. Project includes a phased replacement of five air handlers that serve multiple floors with new air handlers and all new HVAC ductwork, VAV boxes and Controls. The existing penthouse serving two of the air handlers will have the roof removed for new air handler installation. The new roof will be four feet higher to accommodate the new equipment.

The Central HVAC plant pumps will be replaced. The existing chiller and water tower will remain and be integrated into the new control system.

Fire Suppression:

This project will complete a fire suppression project that started 19 years ago by the same Engineer. A new fire pump and new sprinkler system for four floors will be provided to complete the building for a 100% coverage sprinkler system.