



Advanced Technology Building

Big Sandy CTC – Pikeville, KY

Owner: Kentucky Finance Cabinet - DECA

User Agency: KCTCS

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Building Area: 15,050 S.F.

Construction Cost: \$ 3,400,000

Project Status: Completed 2018

Project Description:

Building is one of three Broadband Technology Training Centers in the United States. This is the first building to be all fiber connected from desk to service in the Eastern United States.



Engineering Highlights:

Programs:

Programs in this building include: High-Bay Training Area, Broadband Technology, Virtual Technology. Building has a tiered classroom, office suite, and multi-Purpose Classrooms.

HVAC:

HVAC system is variable volume gas fired rooftop units with energy recovery. Individual spaces are controlled via individual VAV boxes monitored via the FMS system. Controls are full open protocol using the latest from KCTCS standard specifications and CEMCS compatible.

Electrical:

Lighting is LED based controlled via a network accessible low voltage control system with daylighting controls. Multiple levels of transient voltage surge suppression will be provided to protect all the sensitive electronics a building such as this contains. Provisions for tiered classroom environment include motorized screens, video equipment have been incorporated into the electrical design.

Technology:

All data wiring within the facility is fiber based, the first in the State of Kentucky. A separate standalone fiber system has been provided for the broadband fiber training program area. Systems have been integrated to the adjacent Pikeville Campus building that shares the same site.