

Big Sandy Community & Technical College *BSCTC – Mayo Welding Lab*

Owner: Kentucky Finance Cabinet - DECA
User Agency: KCTCS
Contact: Paul Cable
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Construction Cost: \$353,000
Project Square Footage: 30,000 S.F.
Project Status: Completed 2016

Project Description:

Project included the upgrade of the facility's two existing electrical service entrances and the creation of a new state of the art welding shop.

Engineering Highlights:

Electrical / Systems:

New electrical service entrance was replaced at local power company's request to replace aging equipment and upgrade to new current limiting switchgear. An all new power distribution system was installed for a new welding shop that includes Plasma, MIG, TIG, type welding. New non-glare lighting was installed.



HVAC / Mechanical:

All new cartridge filter welding exhaust system was provided to allow welding fume exhaust air to be reintroduced into the space to save energy. Additional systems include a nitrogen and Argon distribution system piped to each booth with metering equipment.

Fume collection arms were designed to allow collection of welding fumes within 6" of the arc. This reduces total amount of exhaust air needed for each booth operation.

Shop includes an ADA accessible booth, new plumbing and wash sink, including an emergency eyewash shower.