



Magoffin County CTE,
Salyersville, KY

Owner: Magoffin County Schools
Contact: Chris Meadows, Superintendent
Phone: 606-349-6117
Email: Chris.Meadows@magoffin.kyschools.us
Architect: Alt 32
Building Area: 30,430 SF
Construction Estimate: \$ Unknown
Construction Cost: \$ 10,909,778
Cons MEP Cost: \$ 4,005,500
MEP Change Orders: \$ 87.00
Final Contract Amount: \$ 10,935,792
MEP Contractor: Elliott Contracting, Pikeville, KY
Project Status: Completed 1/24/2024



Project Description: New CTE addition to existing high school consisting of welding, wood shop, nursing, and pre-engineering programs.

Mechanical:

Complete standalone HVAC system consisting of four pipe blower coils and a dedicated makeup air unit. New high efficiency boilers and chiller consisted of the main heating plant. The use of low temperature supply air allowed for better dehumidification of large spaces and kept ductwork and piping smaller.

Special Systems include wood dust collection system with direct hookup to various woodworking machines as well as floor sweeps. System included a spark detection and fire suppression system to limit deflagration.

A welding exhaust system was designed for welding shop using HEPA filtration that allows air to be returned to the space without relying on outside makeup air saving thousands of dollars in energy cost.

Electrical:

Existing high school electrical service was evaluated and found to have sufficient capacity for the new addition. This saved thousands of dollars right off during schematic design not having to provide for a costly new service.

Addition was served by a new voice annunciated fire alarm system and tied into the existing school's system for simultaneous alarming and evacuation.

Power systems included overhead electrical busways to serve the many pieces of shop equipment and welding systems. Emergency shutdown switches were located at each door to shops and labs to turn off all power during emergencies and a good practice to kill all equipment for after hours and weekends.