

Warren County School District
Warren County Career Center
Proposed Welding Shop Addition

HFL File No. 2006-0100

Date: June 19, 2006

Scope of Work – Demolition

- A. The following systems and/or equipment shall be disconnected and removed in their entirety:
1. General: Disconnect and remove and/or modify all existing mechanical and electrical systems that interfere with the construction of the new addition at the location indicated.

Scope of Work - New

Heating, Ventilating, and Air Conditioning

- A. Heating and Ventilating (General Purpose)
1. Furnish and install one new interior heating and ventilating unit in the new addition to provide general heating and ventilation. The new unit shall contain a hot water coil for heating and shall be connected to the existing building hot water heating system.
 2. Furnish and install new ductwork and diffusers throughout the new addition for general heating and ventilation.
 3. Furnish and install new hot water piping from the new air handling unit to the existing building hot water loop located outside of the existing shop in the main corridor.
 4. Furnish and install new controls for the new unit and connect the new controls in to the existing building control system.
 5. Test and balance all new HVAC equipment in the existing welding shop and new addition.
- B. Welding Shop Exhaust System (Welding Station Exhaust)
1. Modify existing welding shop exhaust system to accommodate the new welding station layout indicated. This shall include the installation of new ductwork as required.
 2. Test and balance the re-configured system in the existing welding shop and in the new addition.

Plumbing

A. General Requirements

1. Roof Drains: Furnish and install new roof drains for the new addition. New roof drains shall be connected to the existing system.
2. Floor Drains: Furnish and install new floor drains in the new addition. New floor drains shall be connected to the existing system.
3. Welding Stations: Furnish and install new gas piping from the new gas storage area to each welding station in the existing welding shop and new addition.

Electrical

Lighting

A. Interior

1. Shop Arcas: Two-(2) lamp 1'x4' industrial fluorescent lighting fixtures w/ 32 watt T-8 lamps and one-(1) rapid start electronic ballast.

B. Exterior

1. Building: Wall mounted Metal Halide or High Pressure Sodium (shall match existing building) fixtures for security and/or egress.

C. Controls

1. Provide interior and exterior lighting control system as required by the 2003 International Energy Code.

Wiring Devices

A. Receptacles

1. All devices shall be duplex 20A Specification Grade devices.
2. Welding Station: Provide receptacles as required for the connections of each welding unit(s). Device configurations shall match the equipment supplied.
3. Common Spaces: Provide general purpose receptacles as required.

Normal Power Distribution

A. Normal Service

1. All new fixtures and devices shall be connected to existing branch circuit panels presently serving the existing welding shop.

Fire Alarm System

A. System Requirements

1. Furnish and install new fire alarm system devices as required by the latest edition of NFPA, IBC, and local codes and regulations. All new devices shall be connected to the existing building fire alarm system.

Miscellaneous Equipment Connections

A. System Requirements

1. Furnish and install disconnect switches, motor starters, variable frequency drives, conduit, wiring, etc. required for the connection of equipment furnished under other contracts.