

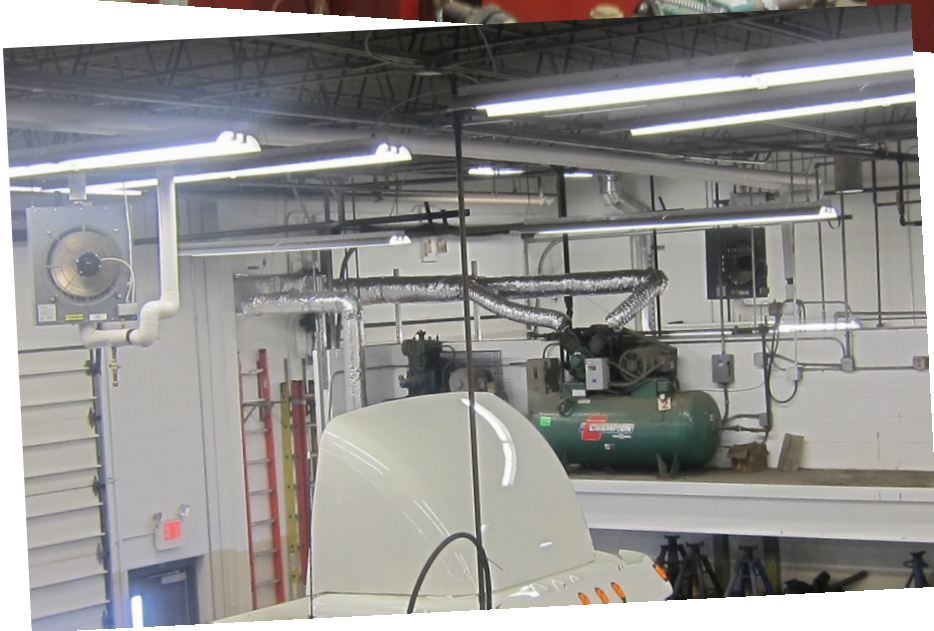
*Mechanical Services HEI can provide*

- Air Conditioning Heating Ventilation
- Sanitary and Storm Piping
- Domestic Water Piping and Systems
- Building Automation Systems
- Medical Gas and Piping Systems
- LEED Certification
- BIM Design
- Energy Audits

*Types of Facilities HEI Designs*

- Medical
- Educational
- Institutional
- Commercial
- Industrial
- Laboratory Design
- Computer Room Design
- Laundry Facilities

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*Smith Dairy Maintenance Building*

Hinkel Engineering Group, Inc. recently attended an open house celebration for the Smith Dairy Maintenance Building. Smith Dairy upgraded its facility this past summer to accommodate their rapidly growing fleet of CNG vehicles.

The HVAC design for the 9,000SF facility consists of (2) 500MBH waste-oil boilers, (1) existing gas-fired boiler which serves strictly as back-up, inline pumps, hydronic unit heaters located along the exterior at the over-head doors, duct coils to temper the ventilation air which is provided by (2) roof-top units complete with gas heat as back-up, "up blast" roof exhaust fans and electronic gas detection.

Continuous ventilation of 4 air changes per hour is provided and delivered low within 18" of the finished floor while air is exhausted high at the ceiling. CNG, carbon monoxide and diesel fuels are also continually monitored for occupant safety. If a low level of CNG is detected the HVAC system is controlled automatically to provide 10 air changes per hour to quickly flush the facility.

Shop equipment with air intakes, such as air compressors, required hard ducting to the outdoors to avoid igniting CNG in case the air compressors were energized during a leak.

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