

Eberly Campus Community Center

Penn State Fayette Campus
Uniontown, PA



Project Team:

Owner: The Pennsylvania State University
Architect/MEP: Burt Hill
Structural: Barber & Hoffman, Inc.
GC: Walter Mucci Construction Co., Inc.

General Information:

Building size: 52,000 sq. ft.
Overall project cost: \$10.6 Million
Use: Multi-purpose facility
Stories: 1 floor, with 2nd floor mechanical rooms.

Architecture:

Contains an arena, fitness facilities, a food court, office/ conference space, a theater/auditorium, and a gymnasium/ banquet hall.
Modern steel and glass exterior combining with red brick to recall existing campus architecture.
Repeating curves throughout building, further emphasized by the central front fountain.

Structural:

2-way slab-on grade, varying 4" to 6" concrete, brick spread footings under load bearing walls
8" CMU wall system, with W-shape and pipe columns to help carry the load
W-beams and joist system supporting metal deck roof

Mechanical:

Localized air handling units serving the large spaces
Fan coil units and slot diffusers in the office spaces
Radiant panels in locker rooms and training rooms
Separate unit ventilator, exhaust system, and make-up air unit for the food service area
Air-cooled condenser, exterior chiller, and natural-gas fired boiler to serve the loads.

Electrical:

New 500 kVA Transformer with emergency generator
480/277V, 3 ph. 4 w. 1200A Main Distribution Panel
TVSS module protection on panels
Typical lighting includes linear fluorescent troffers and metal halide highbays depending upon use
Grounded to building main water line

Special Systems:

Telecom: Theater, fitness area, and dining area sound systems
Food Service: Walk-in refrigerator, hot and cold food displays, coffee bar

Construction:

Design-bid-build delivery method
Lump sum general contract
Bid date: March 27, 2003
Building dedicated: August 19, 2004



~ Heather Stapel ~

Mechanical Building Systems Option

<http://www.arche/thesis/eportfolio/2007/portfolios/HMS179>