

THE BUCKHORN MEDICAL OFFICE BUILDING

Geisinger Health Systems | 240 Mall Boulevard | Bloomsburg, PA 17815



Project Information

NAME: **Shane Boyer**
OPTION: **Construction Management**
WEBSITE: www.engr.psu.edu/ae/thesis/portfolios/2010/sab424

Building Statistics

BUILDING OCCUPANT: **Geisinger Health**
SIZE: **83,245 SF**
NUMBER OF STORIES: **3**
CM: **Alexander Building Construction**
DESIGN TEAM: **Borton-Lawson**
DATES OF CONSTRUCTION: **Dec. 2007 - Oct. 2009**
PROJECT COST: **\$11.7 million**
DELIVERY METHOD: **Design-Bid-Build (CM @ Risk)**

Architecture

- Five different types of metal panels for enclosure
- Custom waterjet cut tile pattern in cafeteria
- Recycled material composite floor tile in hallways
- Showers and lockerrooms for employees
- LEED Silver Certification

Lighting/Electrical Systems

- Metalux 2'x4' Prismatic Fluorescent Fixtures in open office spaces
- 112.5 KVA 480V primary transformer
- Two 45 KVA 480V secondary transformers
- 100KW/125 KVA diesel generator with eight (8) hour fuel tank

Structural System

Foundation: **Cast-in-Place 24"x24" piers, 12'x12' footings, & 1' thick foundation walls**
Framing: **W10X68 & W10X39 typical columns laid out in 30'x30' bays. W8X35 beams typical across bay spans with W24X76 girders. 24K5 K-Series joists support the roof structure. L4"X4"X1/4" cross braces located along north and south exterior walls.**
Slabs: **4" slabs placed on composite deck**

Mechanical System

- (4) 5500 CFM Roof Top Units
- (3) 880 MBH Cast-Iron Boilers
- (4) 600 GPM Close Coupled Circulating Pumps
- (1) 600 GPM Cooling Tower
- (1) 34 Gallon Expansion Tank
- All floors serviced by water-cooled heat pumps varying from 500-2600 CFM located in mechanical rooms or in plenum space

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