

UPMC Passavant Pavilion Addition

Pittsburgh, Pa



Project Information

Name: UPMC Passavant Pavilion

Occupant: University of Pittsburgh Medical Center

Size: 209,400 sq. feet

Dates of Construction: November 2007 – May 2010

Cost: \$85,900,000

Delivery Method: General Contractor

Structural System

Concrete Spread Footings and Foundation Walls

Structural Steel Framing with Concrete Slabs on Metal Deck

Braced and Moment Frame Lateral Force Resisting Systems

Mechanical

Heating: (2) 45,000MBH Natural Gas Boilers

Cooling: (6) 333.3 Ton Cooling Towers

(2) 1000 Ton, 2388 GPM Chillers

Electrical System

Feed: 23kV from Duquesne Light Co.

Distribution: 480/277V and 208/120V

Emergency Power: UPS and Generators

Lighting System

Primarily 277V System with 120V Fixtures Intermittently
Spaced Throughout.

277V Fluorescent Fixtures

120V Incandescents and LEDs

Project Team

Owner

University of Pittsburgh Medical System

Architect

Burt Hill

General Contractor

PJ Dick Inc

Structural Engineer

Atlantic Engineering Services

Mechanical Engineer

Firsching, Marsteller, Rusbarsky, Wolf Engineering

Electrical Engineer

CJL Engineering

Architecture

Exterior Cladding: Brick Veneer with CMU Backup, Brick Veneer with Structural Sheathing Backup, Aluminum and Glass Curtainwall, Metal Panels.

Roofing: TPO Roofing System on Metal Deck and Insulation at the Penthouse Roof.
Green Roofing on the Roof Gardens at the 2nd and 3rd Floors.

Additions: New Oncology and Emergency Department Facilities.

(6) Operating Rooms.

(16) Intensive Care Units.

(72) Patient Rooms.



Jeremy McGrath | Construction Management

The Pennsylvania State University | Department of Architectural Engineering

<http://www.engr.psu.edu/ae/thesis/portfolios/2009/jjm5005/>