



Hershey Academic Support Center

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Structural Option
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<http://www.arche.psu.edu/thesis/eportfolio/current/portfolios/sbj113/>

Primary Project Team:

Owner/Developer: Penn State University (*Milton S. Hershey Medical Center and The Pennsylvania State University joint project*)

Construction Manager: Barclay White Skanska

~**Project Manager:** Jon Anthony

~**Project Engineer:** Jessica Kosoff

Architects: WTW Architects

Engineers:

~**Structural:** Whitney, Bailey, Cox & Magnani, LLP

~**Civil:** Rettew Associates, Inc. (*Civil Engineering and Landscape Architect*)

~**MEP:** Brinjac, Kambic & Associates

Consultants:

~**Lighting Design:** Brinjac, Kambic & Associates

~**Geotechnical Engineer:** Schnabel Engineering Assoc., Inc.

General Project Data:

Location and Site: Hershey, PA

Building Occupants: 680 people.

Size: 150,000 ft²

Number of Stories Above Grade: 5 Stories

Total Height: 56'-0" to the 5th story.

Dates of Construction: March 1999—August 2000.

Overall Project Costs: \$16,900,000

Structural:

~Structural steel system with composite beam floor framing

~Galvanized steel metal decking between the beam and girder connections

~Typical beam size is W16x31, typical girder size is W21x50, and typical column size is a W14x120 & W14x176

~Identically spaced columns per wing in 28' to 33' bays

~Deep foundation system consisting of caissons and grade beams

~Moment connections as well as braced steel frames are used to resist wind force

Architecture:

~Precast panel concrete and glass window façade

~Glass sheet at center of the building on both sides

~Membrane roofing system with rigid insulation and metal decking

Main lobby is encased by glass windows and extends through the middle of the building

Mechanical:

~Mechanical Penthouse located on the roof

~Four AHU fans at 42,500 CFM with 460V 3-phase power

~Ductwork system acts as an air plenum to the space

Electrical/Lighting:

~ Main system: 480Y/277 Volt, 3-phase, 4-wire setup

~ Auxiliary system: 208Y/120 Volt power transformers

~Main lighting is fluorescent luminaires throughout

