

City Hospital Pennsylvania Phase I



Project Team:

Owner: City Hospital

Architect: Ballinger

MEP Engineer: BR+A

Structural Engineer: LeMessurier Consultants

Construction Manager: Turner Construction Company

Project Information:

Size: 200,000 s.f.

Number of stories: 3.5

Date of Construction: March 2005– December 2007

Project Cost : \$ 156 Million

Delivery Method: CM at Risk



Mechanical:

(1) 2,000 ton steam turbine chiller

(1) 2,000 ton electrical chiller

(4) 1,000 ton cooling towers

(4) 800 HP dual fuel boilers

18 air handling units ranging from 2,500 to 100,000 CFM

(2) 120,000 CFM exhaust AHUs with heat recovery

Building Features:

Four story "L" shaped sub grade central utility plant with adjoining research space

Construction will occur in phases

Highest poured concrete shear walls in S.E. PA

Roof of central utility plant accommodates traffic loading

Seeking LEED Silver Certification

Building Information Modeling—3D Modeling Coordination



Electrical:

(2) 13.2 KV service feed

(3) 5000 KVA substation

(2) 2 MW emergency generator

480/277V distribution stepped down to 208/120V

Predominantly fluorescent lighting supplied at 277V

Structural:

Concrete slab on composite steel deck (4 ksi)

Steel frame with concrete shear wall (4 ksi)

Concrete spread footing foundation (4 ksi)

CMU cavity wall system

