

• Owner • St. Joseph Health System •

Architect • NBBJ

- Civil
 KPFF Consulting Engineers
- Construction
 - Services McCarthy Building Companies INC. •
- Structural
 KPFF Consulting Engineers

Equipment

- Technology Foundations INC.
 - NBBJ •
- Interior Design + Graphics
- Mechanical + Electrical • Syska & Hennessy INC.
 - Davis Design •
- · Low Voltage Consultant

4 substations feed

• substations feed @

480/277V

• 45-300kVA transformers

- Acoustical Consultant
 - Martin Newson and Associates
- Security Consultant

electrical

• Diversified Security Systems •

(2 emergency) •

, 3 Phase, 4 Wire •

• 82'-0" tall •

statistics

• 4 stories

• 252,712 sq. ft •

- costs
 - \$130 million •

+ basement •

 guaranteed maximum price •

lighting

- typical lamps 32W compact fluorescent •
- photocells control hospital

architectural

- etched inspirational message on exterior glazing
- braced frames accentuated through the exterior glazing
- 19'-0" tall canopy located at the main entry •
- patient rooms overlooking central courtyard •
- exterior facade consists of precast concrete panels + stucco facade facing the central courtyard + metal equipment screening @ roof•

structural

- floor system consists of composite steel framing
- typical floor areas designed for 80 psf
- lateral system consist of a series of concentrically steel braced frames on levels above ground while shear walls are used @ basement level •
- pile foundation system is used to support the main entry canopy, while continuous deep footings support the shear walls •

mechanical

- 8 air handling units supplying 36,000 70,000 CFM •
- 2 unfired clean steam generator
 - supplying @ 4000 lbs\hr •
- each room is equipped with a terminal air unit meeting patient's comfort •
- campus chiller water and steam used to condition water supply •

nasser marafi | structural option | http://www.arche.psu.edu/thesis/portfolios/2008/nam202/

located on every floor •

dimming system •