

Holy Cross Hospital – North Addition

Silver Spring, MD

Philip Mackey

Electrical/Lighting option

Project Name: Holy Cross Hospital – North Addition

Location: Silver Spring, MD

Size: 90,000 sq. ft. addition, 44,000 sq. ft. renovation

Cost: \$21.9 million including \$7.8 million MEP system and \$3.1 million structural system

Date of Construction: April 2004 - August 2005

Owner: Holy Cross Hospital

Architect: Smithgroup

MEP Consultant: Leach Wallace Associates

Structural Engineer: McMullen & Associates

Civil Engineer: Drewberry & Davis

Construction Manager: Bovis Lend Lease

Lighting:

Public spaces are mainly lit with a combination of fluorescent downlights and decorative compact fluorescent and incandescent accent lighting. Exam rooms and patient areas are lit primarily with institutional linear fluorescent fixtures with task lighting where needed.

Electrical:

- 3-tiered emergency power distribution system in addition to normal service
- Two 750 kW generators with 5000 amp paralleling switchgear
- 3000 kVA substation with 14.4 kV supply



Structural:

- Structural steel skeleton
- Glass curtain walls on concourse/atrium level
- Efs cavity walls on upper floors
- Decorative glass knee walls in concourse

Mechanical:

- Dedicated custom modular AHU feeds critical/patient areas with additional AHU serving lobby and office
- New hot water heating plant installed on 2nd floor penthouse