

### **Justin Prior**

Mechanical

# VIRTUA WEST JERSEY REPLACEMENT HOSPITAL

## **Building Info**

**Location: Voorhees NJ** 

Start/Finish: March 2008 -2011

Size: 690,000 SF

Delivery: CM at Risk GMP

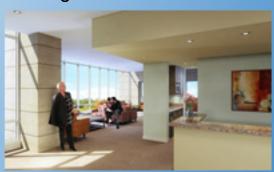
Levels: 8 above / 9 total Cost

Cost: \$450-\$500 Million

Owner Architect Engineer CM Virtua HGA HGA Turner

#### **ARCHITECTURE**

- 360 Patient Rooms
- -690,000 SF
- 8 story bed pavillion, 4 story auxiliary space, central utility plant
- Large glass curtain wall along front face
- Aluminum siding and stone veneer along sides



#### **MECHANICAL**

- Domestic hot water, heating provided by 4 steam boilers
- 3 1000 ton centrifugal chillers
- 3 sets of VAV AHUs
- 3 cooling towers



#### **STRUCTURAL**

- W14 columns
- Cast in place lightweight concrete floors on 3" steel deck
- Typical bay size 32' x 32' for patient pavillion, 31' x 29' auxilary space
- Steel frame bracing and moment connections for laterial reinforcement





#### LIGHTING/ELECTRICAL

- 12.5 KV service distributed to 6 substations
- 480/277 and 120/208 distributed throughout hospital
- 3 1500 KW backup generators
- 900 KW UPS system