

EAST NORRITON, PA

NEW REGIONAL MEDICAL CENTER



PROJECT OVERVIEW

Owner:	New Regional Medical Center, Inc.
Construction Manager:	Gilbane Building Company
Architect:	Perkins + Will, Inc.
Structural Engineer:	O'Donnell & Naccarato
Civil Engineer:	Bohler Engineering, Inc.
MEPF Engineer:	PWI Engineering
Project Cost:	\$147 million
Size & Height:	366,780 SF 5 Stories
Duration:	July 1, 2010 - August 31, 2012

ARCHITECTURAL FEATURES

- 96 medical & surgical | 22 ICU | 20 obstetrical | 8 neonatal beds
- 5 story glass atrium with smoke management system
- Curtain wall composition: precast concrete panels & glazing
- LEED Certified Rating

MECHANICAL SYSTEM

- 10,800 square foot Central Utility Plant
- 9 AHU's | 3 water chillers (two 825 ton, one 450 ton) | three boilers (two 500 HP, one 400 HP)
- Variable air volume systems located in each patient room to provide personalized heating and cooling needs
- Double Interlocked Deluge Preaction Sprinkler System

ELECTRICAL SYSTEM

- 500A, 480/277V, 3 phase, 4 wire feed supplies the building through two redundant 3750 KVA 408/277V transformers
- Seventy-nine 480/277V | Ninety-six 120/208V panel boards feeding the building systems
- Two 100KW, 1250KVA generators

CONSTRUCTION

- 84-acre Greenfield Property | 30-acre preserved
- CM at Risk contract | Guaranteed Maximum Price
- Foundations phased North to South | Steel phased West to East | Finishes phased top-down, bottom-up meeting on 1st Floor
- Hospital staff training scheduled August 8 - October 15, 2012

STRUCTURAL SYSTEM

- Cast-in-place concrete column footings & foundation walls
- Structural steel frame | 30' x 30' grid
- W12 & W14 column with splices at 1st & 3rd Floors
- W24 girders & W14 beams with flexible moment connections at column connections
- All slabs consist of metal decking, shear studs, WWF & composite concrete



BRIAN J. NAHAS | CONSTRUCTION MANAGEMENT

[HTTP://WWW.ENGR.PSU.EDU/AE/THESIS/PORTFOLIOS/2012/BJN5029/INDEX.HTML](http://www.engr.psu.edu/ae/thesis/portfolios/2012/BJN5029/index.html)