# NORTHEAST HOSPITAL EXPANSION

123 Medical Lane, USA

## **Building Information**

**Function/Type: Hospital Addition** 

Size: 234,000 GSF

Stories: 7 Patient, 3 Mech, & 1 basement

Delivery Method: CM @ Risk

Construction Dates: Jan. 2013 - Sept. 2015

## **Project Team**

**Owner: Trinity Health** 

**Owner Representative: KLMK Group** 

**Architect: Smith Group JJR** 

**CM: Whiting-Turner** 

Structural Engineer: McMullan & Assoc.
MEP FP Engineer: Leach Wallace Assoc. Inc.
Civil Engineer: Loiederman Soltesz Assoc.

## Architecture

- 180 Private patient rooms
- Relocation of Central Utility Plant
- Biowaste and autopsy room
- Connection bridge to existing wings

#### Structural

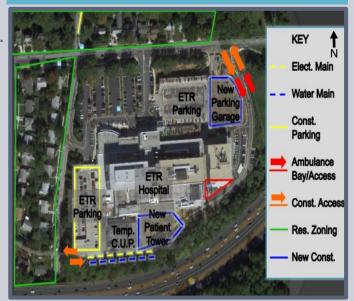
- Post tensioned concrete deck
- Cast-in-place concrete columns 7 Floors
- HSS steel columns 3 Mechanical Floors

## Electrical

- 480/277V Distribution System
- (3) 2000KW emergency generators
- Primary Switchgear servicing
  - (2) Substations for patient rooms
  - (1) chiller substation
  - (1) emergency substation



**Existing Conditions & New Construction** 



### Mechanical

- Boiler/Chiller System with Fan Coil Units
- Med Gas, Nitrogen, Oxygen, & CO<sub>2</sub>
   supplied to each patient room
- Acid Waste lines throughout
- (2) Critical Zone AHU & (7) Non Critical Zone AHU

#### JOSHUA MILLER

Construction Management Option
Advisor Craig Dubler





http://www.engr.psu.edu/ae/thesis/portfolios/2015/jam6177/index.html