

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, & CO₂ 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

TRINITY  HEALTH

WT
WHITING-TURNER

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