Jessel Elliott
Structural Option

Bedtower Addition
at Appleton
Medical Center

1818 North Meade Street
Appleton, WI 54911

**Architecture**
- Triangular shape brings a unique form to the overall building layout
- Exterior made of limestone and cast stone bricks which help separate space
- Large clear windows on the first floor allow natural daylight while tinted windows in the patient rooms make the rooms cooler and dimmer

**MEP**

**Mechanical:**
- VAV Box with Reheat Control set to a 75° controlled temperature throughout the building
- Continuous AHU’s serving all floors with interlock operation of supply and return fans

**Electrical:**
- Main power by 480/277V 3 Phase 60 Hz 1200 A
- Other power by 120/208V 3 Phase 60 Hz 100 A
- Majority of equipment located in penthouse

**General Information**
- **Owner:** Appleton Medical Center
- **Occupancy:** Hospital
- **Size:** 152,330 Sq. Ft
- **Height:** 107’ - 3”
- **Construction Date:** June 2008 - January 2011
- **Cost:** $59,100.00
- **Project Delivery:** Integrated Project Delivery

**Project Team**
- **Construction:** The Boldt Company
- **Civil:** McMahon Associates
- **Architect:** Hammel, Green and Abrahamson
- **Structural:** Hammel, Green and Abrahamson
- **Mechanical:** Tweet/Garot Mechanical
- **Electrical:** Excellence Electric
- **Fire Protection:** J. F. Ahern Co.

**Structure**
- 3’-6” mat slab foundation with piers
- 9 braced frames to assist in transferring lateral loads to the foundation
- Composite system throughout the entire building consisting of mostly normal weight concrete on metal decking

CPEP Website: http://www.engr.psu.edu/ae/thesis/portfolios/2012/JXE5007/index.html