

The Towers at Greenville Place Tower 'B'

Wilmington, DE

Shawn M. Brandt

Structural



Building Statistics

- Function Type: Apartment Building
- Size: 180,000 Square Feet
- Stories: 7 above grade/ 1 partially below grade
- Delivery Method: Design-Bid-Build
- Construction Time: July 2006 - July 2007
- Total Cost: \$11.5 Million

Project Team

- Owner: Greenville Place, LLC.
- Architect & General Contractor: Pettinaro Construction Co.
- Structural Engineer: Baker, Ingram & Associates
- Geotechnical Engineer: Advanced Geo Services Corp.
- MEP Engineer: TJCI
- Civil Engineer: Howard L. Robertson, Inc.

Architecture

- 89 Upscale residential apartments
- Facade is 8 inch decorative CMU
- A rustic base of textured and darker CMU creates a solid foundation for the larger, lighter colored upper sections
- Flat roof; Fully adhered EPDM roofing over tapered rigid insulation



Structure

Foundation

- Continuous 18 inch thick spread footing
- 4 inch slab on grade with 6x6 welded wire mesh

Gravity System

- Load Bearing Decorative 8 inch CMU walls
- 8 inch thick precast hollow core concrete floor plank

Lateral System

- Reinforced, filled core, 8 inch CMU walls

MEP System

- Thru-wall heat pumps, Completely self contained heating & cooling units service each upper floor living units at 1130 CFM
- 208/120 Volt, 3 Phase, 4 Wire primary feed
- Recessed hi-hat corridor lighting
- Each living unit is equipped with 52 gallon electrical hot water heaters (208 volts)