Granby Tower

Norfolk, Virginia

Project Information:

Cost including property, design, and

construction: \$180 million

Total Square Footage: 717,233 sq.ft. (gross)

Building Height: 31 story high rise

Total Site Area: 2.32 acres Delivery Method: GMP

Construction Dates: July 2, 2007 (NTP) - Nov. 2009

Project Team:

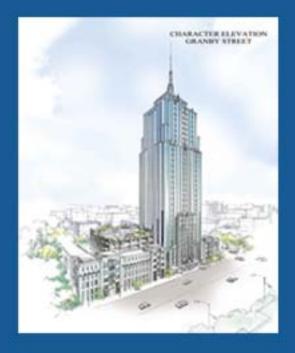
Owner: 515 Granby Tower LLC

General Contractor: Turner Construction Architect: Humphreys and Associates Structural Engineer: Abiousness, Cross

and Bradshaw

MEP Engineer: Jordan & Scala

Engineering





Structural System:

Cast in place concrete with most of the slabs being

post-tentioned concrete

1233 piles

Deep mat foundations

Architectural Systems:

Post modern style architecture Hand set panelized curtain wall for most of building skin

Contains operable aluminum framed windows Membrane roofing over tapered insulation

MEP:

4 pipe mechanical system
3300 GPM Forced Draft Cooling Tower
87 GPM Natural Gas Boiler
1100 GPM Tower Water Pump (CWP)
1650 GPM Tempered Water Pump (TWP)
87 GPM Boil Heating Pump (HWP)
Riser system has sub panels every three floors
120A/208V wire for the units
277A/480V wire for the equipment
500KW deisel generator for emergency power

Justin Pennycoff - Construction Management http://www.engr.psu.edu/ae/thesis/portfolios/2008/jap410/