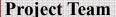
# CHRISTINA LANDING APARTMENT TOWER

Wilmington, DE



Structural Option



Owner: Buccini Pollin Group

Website: http://www.bpgroup.net/

Architect and Engineering Disciplines: Kling

Website: http://www.kling.us

General Contractor: Gilbane Building Co.

Website: http://www.gilbanco.com

#### Project Overview

22 Story High Rise Apartment Building

Size: 248,884 sqft

Construction: April 2004 — October 2005

Cost: 60 million

Delivery Method: Design-Bid-Build



#### Structural

Cast-in-place concrete structure
Reinforced 8" concrete slab with perimeter beam

Reinforced concrete columns (square and round)
Main Wind Force Resisting System: Concrete

shear walls

Foundation: Pile caps and H-piles

## **Architectural**

Building Materials: Brick, Glass, Metal Cladding 173 one and two bedroom apartments

Part of a residential construction project including

63 townhouses and a park

Façade: Non-structural precast concrete panel with a thin architectural brick veneer and aluminum framed glass curtain walls

## Mechanical

Air Handling: Air to air heat pumps in apartments
Air to water heat pump for common areas
System also uses electric resistance heaters
Fire Protection: Entirely sprinkled wet system
Automated pressurization for smoke control

# Lighting/Electrical

Two feeds (208/120V and 480/277V)

208/120V feeds 3 phase, 4 wire plug-in busway for apartments

Apartments metered individually

480/277V line serves mechanical equipment

500kW/625kVA generator serves emergency systems



CPEP: www.arche.psu.edu/thesis/eportfolio/current/portfolios/gre111/