

Judicial Center Annex

General Information

-Function: Courthouse/Administrative
-Size: 210,000 sq ft (addition)
-Height: 114' (6 Above grade + 2 Below)
-Duration: 4/12/2011 - April 2013
-Delivery Method: Design-Bid-Build

Project Team

-Architect: AECOM
-Structural Eng: AECOM
-MEP/FP Eng: AECOM
-Civil Eng: Adtek Engineers, Inc.
-Contractor: Tompkins Builders, Inc.



Structural

Architecture

- Elevated PT slabs with wide shallow beams in one direction supported by concrete columns
- Foundation System: Core drilled caissons and grade beams
- Lateral System: 5 Concrete shear walls that extend the height of the building

- Addition to existing Court Center
- Facades use extensive glazing in the form of curtain walls; also feature reddish-hue powder coated aluminum panels and architectural precast
- Four lanterns extend from the roof which provide dramatic lighting through translucent linear glazing system

Mechanical

- Mechanical Penthouse located above 5th floor
- Seven 20,000 CFM air handling units
- Four natural gas powered hot water boilers
- Two 300 ton centrifugal chillers and two cooling towers
- Variable air volume units to distribute air

Sustainability

- JCA achieved a LEED Gold Rating
- Rooftop has several Green Roof sections and photovoltaic panels are featured on top of the four lanterns
- Recycled and local materials used in construction

Electrical

- 3200 Amp main switchgear
- 1000 kw emergency generator with disconnect switch protection
- 480/277 V

Lighting

- Predominantly fluorescent lighting fixtures
- Luminaires operate at 277V with electronic ballasts