

Erie on the Park

Chicago, IL

Primary Project Team:

Owner: Smithfield Properties LLC

Architect: Lucien Lagrange Architects

Structural Engineer: Thornton-Tomasetti Engineers

General Contractors: Wooton Construction, Ltd.

General Project Info:

- ▲ 25 Story Condominium Complex
- ▲ First 5 stories are a tenant parking garage, 6th floor has a fitness center, and floors 7 - 25 are residential units
- ▲ 165,000 sq ft Residential Space
- ▲ \$51M Overall Project Cost

Architecture:

- ▲ Chevron shapes accentuate the use of steel and draw your eyes skyward
- ▲ The use of steel allows for greater flexibility of floor layouts
- ▲ 30' Ceiling in Ground Floor Lobby provides grand entrance for tenants



Structural:

- ▲ Concrete shear walls and columns resist lateral and gravity loads in first 3 stories
- ▲ Steel columns and brace frame system supports upper 22 stories
- ▲ Mega braces moved to exterior to resist torsional forces

Mechanical:

- ▲ Vertical fan coil system supplies fresh air to each floor
- ▲ AHU's located in mechanical penthouse on 25th floor
- ▲ 300 CFM line diffusers distribute air to the rooms of the units

Electrical:

- ▲ 1600 Amp, 480/277 Volt, 3 Phase, 4 wire primary switchboard
- ▲ 1600 Amp, 208/120 Volt, 3 Phase, 4 wire secondary switchboard
- ▲ 125 Amp, 208/120 Volt, 1 Phase, 4 wire tenant switchboard
- ▲ 450 kW back-up generator



smithfield



Thornton-Tomasetti Group

PENNSTATE



Tim Moore
Structural

<http://www.arche.psu.edu/thesis/eportfolio/current/portfolios/tm906>