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Building: Renaissance Schaumburg Hotel and Convention Center
Schaumburg Illinois

Hotel Size: 465,885, ft² with 17 stories

Total Cost: \$207.1 Million

Project Team: Owner - Village of Schaumburg

General Contractor - Walsh Construction

Architect - John Portman & Associates

Program Manager - HDC International

Structural Consultant - Halvorson Kaye Structural Engineers

Electric/Lighting

• Distribution at 480/277V and 208/120V

• Hotel Transformers are 500 KVA @ 480V and 3 phase

• 3 phase-4 Wire primary voltage

• Service is supplied at 200A to 1600A per panel

Structural

• Post-Tensioned slab for multifunction floors

• Lobby consists of reinforced 42" concrete circular columns

• 12" and 18" Shear Walls for lateral support

• Driven steel piles for foundation support

Mechanical

• 2 packaged rooftop air conditioning units

• Total Cooling capacity of 189MBH

• Total air quantity of 6,000 CFM

Architecture

The project includes a restaurant, 500 guest rooms, dance ballrooms, health club, indoor swimming pool, and a large atrium area in the lobby. The exterior has concrete paneling and aluminum cladding and is accented with a waterfall feature that leads to a reflecting pond.

Penn State - Architectural Engineering

