

NORTH SHORE EQUITABLE BUILDING

225 North Shore Drive, Pittsburgh, PA



Stephan Northrop - Structural Option

DESIGN TEAM

- Owner: Continental Real-Estate
- General Contractor: Continental Building Systems
- Architect: Strada Architecture LLC
- Civil: GAI Consultants
- Structural: Michael Baker Corporation
- Mechanical: Ruthrauff Inc
Burt Hill Kosar Rittelman
- Electrical: Starr Engineering
- Plumbing: Scalise Industries

MEP SYSTEMS

- VAV system with 30,000 CFM air intake on the roof meeting the entire building load
- 277 volt fan powered boxes on levels 2 - 5
- Mechanical rooms above the lobby on levels 2 - 5
- 277/480 volt 3 phase 4 wire power system
- Recessed metal halide lamps and wall mounted fluorescent lights providing majority of lighting

CONSTRUCTION

- Design/Build delivery method
- 14 month construction period
- \$70 million total project cost

ARCHITECTURAL FEATURES

- 180,000 Sq Ft, 6 stories above grade, 1 parking sublevel
- The lower half of the facade is cast stone masonry units and the upper half consists of composite metal panel
- Foundation is designed to accommodate a light rail transit line passing under the building
- Aesthetic features include two towers and a turret located at 3 of the building's 4 corners
- The building offers a fitness center and a North Shore riverfront park with views of the Pittsburgh skyline



STRUCTURAL

Foundation: 18" augercast piles and steel piles

Gravity System: Steel beams and girders spanning 30 to 40 Ft with W14 columns on every level

Lateral System: braced frames and moment frames surrounding core of building on all levels

Floor System: 5 1/2" composite floor slab with a 2" metal floor deck

Roof System: 1/2" galvanized roof deck supported by K series joists and steel girders