Brendon J. Burley Structural Option



The Team

Architect

Ewing Cole Cherry Brott 100 North 6th Street Philadelphia, PA 19106 http://www.ewingcole.com/

Site Engineer

Engineering Design Consultants 211 Willowbrook Lane West Chester, PA 19382

Contractor

Torcon, Inc. 214 East Grove Street West Field, NJ 07091

The Project

Site

East Whiteland Township — 111 acres Tredyffrin Township — 5 acres

Building Info

235,000 sq. ft.

6 Stories — 4 stories above grade

Architecture

Pre-cast Concrete Panel & Brick Veneer Façade

Open planned interiors surrounded by traditional office space along the walls

4 story semi-circular atrium on the rear wall connects to a semi circular patio, patterned brick link the floor of the atrium with the patio

Costs

\$37 million in total Project costs \$7 million parking garage \$1.35 million AE fee

Medical Office Building

Malvern, PA

Building Systems

Structural

Frame

Cast-in-place concrete columns and girders

Floor

Cast-in-place concrete slab

Roof

Cast-in-place concrete slab Steel truss over Atrium



Electrical

Feeder

2 35kV lines in main-tie-main radial configuration

Distribution

2 1500kVA Transformers Dual UPS on transformers 4 3-Day Generators

Mechanical

Generation

8 central water heat pumps

- Four 50 ton
- Three 70 ton
- One 90 ton

Chiller dedicated to auditorium

Heating Delivery

311 heat pumps provide a thermal buffer along the exterior wall30 ceiling hung heat pumps

Cooling Delivery

VAV box in every office with local and network controls

Special

Fire Protection

Wet Type Sprinkler System Water Curtain in atrium Simplex 4100 Control Panel

Security

Closed Circuit Television

