

Frank Burke
Structural Option
Sallie Mae HQ
Reston, VA

General Project Data

- ▼ Overall Project Cost : 41 million Dollars
- ▼ Start of Construction : April 2003
- ▼ End of Construction : September 2004
- ▼ Type of Project : Design-Bid-Build

Project Team

- ▼ Owner : Sallie Mae
- ▼ Architect : Boggs & Partners Architects
- ▼ Structural Engineer : Cagley and Associates
- ▼ M/E Engineer : GHT Limited Consulting Engineers



Structural

- ▼ 9 floors of steel framing above grade
- ▼ Concrete parking garage spans max: 28'
- ▼ Steel spans reach max: 42'
- ▼ 2" Deep x 18 Gage Composite Metal Deck with 3 1/4" Lightweight Concrete
- ▼ Soils conditions allow building to rest on spread footings
- ▼ Max load of 3250 kips is on 40" by 30" concrete

Architecture

- ▼ Office Building
- ▼ 9 stories office complex above grade, 5 level parking structure below grade
- ▼ 207,000 SF of office space
- ▼ 307,000 SF of parking space
- ▼ Post Modern Building featuring glass atrium extending 9 floors in stairwell
- ▼ 14' average floor-to-floor height / 5' Ceiling

Electrical

- ▼ Four 1500 KW diesel generators in a parallel configuration providing standby power to UPS and HVAC equipment
- ▼ 2 4000A and 1 3000A Main Switchboards running at 480/277V, 3 Phase 4 wire

Mechanical

- ▼ One 900 ton, 2230 GPM cooling tower at penthouse floor
- ▼ Electric Heating Coils reaching 9700 CFM
- ▼ 80 gallon and 40 gallon Domestic Water Heaters
- ▼ Triplex Domestic Water Booster Pump below grade