## **URS - ARENA DISTRICT OFFICE BUILDING**

### **Columbus**, Ohio

#### architecture

Ohio Basic Building Code 5 floors + penthouse size - 102,678 SF use - mercantile + office materials - masonry exterior industrial glass roof - single ply EPDM polyisocyanurate board insulation

## structural

#### FOUNDATION

 spread footing of various size at the columns along with grade beams

#### MAIN

- 5" Slab on grade
- 2" steel deck + 3-1/4" light weight concrete composite floor system
- 30'x30' typical bay
- wide-flange structural steel
- braced frames to resist lateral forces

#### ROOF

 20 gage steel roof deck on steel beams (W16 typical)

# David W. Lee

Structural Option

#### project team

owner - Nationwide Realty Investors architect - URS Greiner Woodward Clyde engineer - URS Geiner Woodwark Clyde general contractor - Continental Building Systems

#### CONSTRUCTION

project delivery - design, bid, build construction date - from march 2000 to january 2001 total project cost - 7 million dollars

#### mep

- 7 roof top units varying from 2000 to 43000 CFM capacity
- VAV control system
  - central core contains elevators, stairs, restrooms
  - 300 KVA transformer delivering 208/120V three phase power
- 277V, 4' wide, flourescent with T8 typical

http://www.arche.psu.edu/thesis/eportfolio/2007/portfolios/DWL141/