

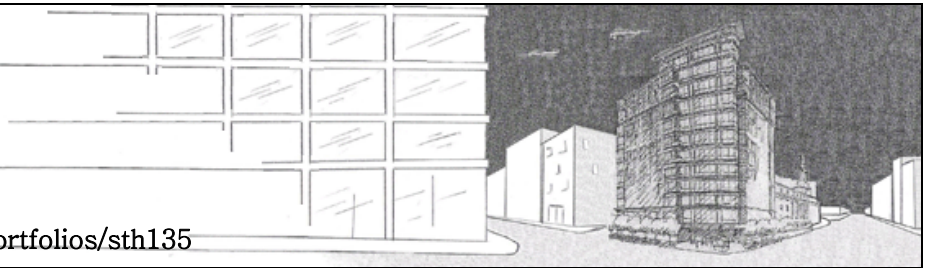
EXECUTIVE TOWER

WASHINGTON, DC

SEAN HOWARD

STRUCTURAL

www.arche.psu.edu/thesis/eportfolio/current/portfolios/sth135



PROJECT TEAM

- Owner: Kaempfer Company
- Architect: Hellmuth, Obata + Kassabaum, Inc. (HOK)
- Structural Engineer: Tadger, Cohen, Edelson Assoc.
- MEP: GHT Ltd
- Geotechnical engineers: Schnabel Engineering
- General Contractor: Tompkins Builders
- Size: 132,268 sqft
- 12 Stories
- Class A office building

ARCHITECTURE

- Trademark curved façade at south east corner
- Precast concrete and glass envelope
- Granite exterior for first and second floors
- Penthouse viewing of Washington DC including the Capitol Dome, the Washington Monument, and the White House



STRUCTURAL

- MAT Foundation
 - 42" thick
 - 13'x13'x1' additional footings
- Cast-in-Place Concrete Construction
- Concrete Flat Plate system with typical:
 - Columns: 20"x20"
 - Plates: 8'x10'x8"
 - Slab: 8"

MECHANICAL

- Cooling towers in penthouse
- 13 VAV water cooled AC units for each floor plus one for the lobby and fitness room
- Heating and Air conditioning is all monitored by computer from building engineers office

LIGHTING/ELECTRICAL

- typical incandescent 3-phase lighting at 277V
- 480/277V 3-phase Electrical feed

