DRAFT PRESENTATION OUTLINE

1. Title slide (1)
2. Introduce myself (1)
3. Presentation outline (on left hand side) (1)
4. Building Introduction
    a. General building information (2)
        i. Building statistics
    b. Existing structure
        i. Foundation (2)
        ii. Gravity system (3)
        iii. Lateral system (2)
5. Thesis proposal
    a. Problem statement (1)
    b. Proposed solution
        i. Include goals of proposal (1)
        ii. Overview slide of depths and breadths (1)
            1. Introduce one way joist and beam & explain reasons for choosing this
        iii. Include criteria for evaluation (1)
    c. Structural depth
        i. Gravity system
            1. Beams, joists and slab design (1)
            2. 3 design iterations (3)
            3. Column design (1)
        ii. Lateral system (4)
            1. Load combinations
            2. Wind and seismic analyses (diff base shear)
            3. Computer modeling
        iii. Results of analysis (1)
        iv. Effect on foundation (1)
    d. Cost and schedule analysis (Breadth #1) (2)
    e. Acoustical analysis (Breadth #2) (2)
6. Comparison and conclusion (2)
7. Acknowledgements, Questions and comments (1)

Total slides: 34

North Shore Equitable Building

- Existing Building Information
- Problem Statement
- Proposed Solution
- Structural Depth
- Acoustical Analysis
- Cost & Schedule Analysis
- Conclusion
- Acknowledgements & Questions

- Location: Pittsburgh's North Shore
- Owner: Continental Real-Estate
- Occupancy Type: low rise commercial
- Delivery method: Design build
- Dates of construction: Oct '03 - Dec '04
- Cost: $70 million
- Size: 6 stories, 180,000 square feet
- 1 parking sublevel
- "Turret" located in SW corner of building

Stephan Northrop Structural Option

North Shore Equitable Building

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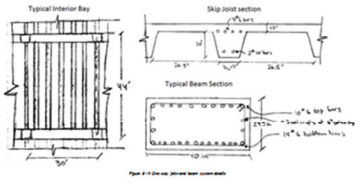
Floor System Design

Slab: 4.5" NW concrete, 4000 psi

Skip Joists: 7" rib width, 20" depth
Spans up to 44'

Beams: 24.5" x 32" and 24.5" x 40"
spans up to 44'



I will provide a better image here for the actual presentation

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Building Cost Comparison

Composite steel floor system
- Cost of steel floor system per Sq. Ft.
- No formwork needed
- Additional fireproofing necessary

Concrete joist and beam system
- Cost of concrete floor system per Sq. Ft.
- Cost of formwork
- No additional fireproofing needed

May include a chart or graph of system costs here

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