
PSU AE Thesis

Final Presentation Outline

1. Introduction [5 Slides]
 - a. Opening
 - b. About Park Potomac Office Building “E” – General
 - c. About the existing structural system
 - d. Problem Statement/Proposal
 - i. Project Goals
 - ii. Evaluation Criteria
 2. Discussion of Structural Redesign [12 Slides]
 - a. Gravity System Design
 - i. Loading Overview
 - ii. RAM Model Criteria Explanation
 - iii. Slab Cantilever Design
 - iv. Floor Depth Increased
 - b. Lateral System Design
 - i. Recalculation of lateral loads due to increased height
 - ii. Overview of Wind/Seismic
 - iii. Braced Frame Layout
 - iv. Summary of Lateral Design Criteria
 3. Systems Comparison [7 Slides]
 - a. Foundation Redesign
 - b. Connections Detailed- Will not be presented
 - c. Architectural Study- Will not be presented
 - d. Cost/Schedule Analysis- Presented in detail to show accurate comparison
 - e. Advantages/Disadvantages of Both Systems
 4. Conclusions [2 Slides]
 - a. Recap of Project Goals- Solution to Problem Statement
 - b. Closing Remarks
 5. Acknowledgements [1 Slide]
 6. Questions
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