Presentation Outline

I. Introduction (2 slides - 6 screens)
    a. Personal (3)
    b. Building, location, site (3)
II. Existing Structural System (4 slides – 8 screens)
    a. Current structural system overview (4)
        i. Foundation, floor system, gravity system, lateral system
III. Thesis Proposal (2 slides - 4 screens)
    a. Explain structural depth (2)
    b. Explain construction management breadth (1)
    c. Explain mechanical breadth (1)
IV. Structural Depth (9 slides - 18 screens)
    a. Gravity system redesign (6)
        i. Flat slab with drop panel design
            1. Hand calculations
            2. spColumn Design
        ii. Column design
            1. RAM model
    b. Lateral System Redesign (6)
        i. Wind and Earthquake Design Loads
        ii. Shear wall design
            1. ETABS model
            2. Hand calculations
    c. Vibration Analysis (6)
        i. Current vibration design
        ii. SAP2000 model
        iii. Calculations and results
        iv. Comparison
V. Construction Management Breadth (3 slides - 6 screens)
    a. Existing cost and schedule (2)
    b. Cost Analysis of two systems (2)
    c. Schedule Analysis of two systems (2)
VI. Mechanical Breadth (3 slides - 6 screens)
    a. Existing glazing (2)
    b. TRACE modeling (2)
    c. Comparison (2)
VII. Conclusion (2 slides - 3 screens)
    a. Acknowledgements (2)
    b. Questions and comments (1)

Total Number of Screens = 51 screens