
Presentation Outline – AE Senior Thesis

1. Introduction – 4 slides total

- a. Project Background – 2 slides
 - i. Building Statistics
 - ii. Structure of building
 - iii. Façade system
 - iv. Cost (state funded)
 - v. Site Plan and location
- b. Theme of thesis (schedule importance) – 1 slide
 - i. Lack of space
 - ii. Research facilities needed
 - iii. Displaced professors
- c. Presentation Overview – 1 slide

2. Analysis I: Demolition – 3 slides total

- a. Analysis Description and importance – 1 slide
 - i. North Wing
 - ii. Asbestos available
- b. Asbestos research
 - i. What is asbestos?
 - 1. Health concerns
 - ii. Friable vs. non friable asbestos
 - iii. Abatement requirements for both demolitions
 - iv. Abatement Costs
 - v. Schedule time
- c. Demolition and Reconstruction – 1 slides
 - i. Demolishing with asbestos and without
 - ii. Deconstruction
 - iii. Reconstruction Assumptions
 - iv. Costs of both
 - v. Schedule time
- d. Conclusions - 1 slide
 - i. Final comparison

3. Analysis II: Façade – 5 slides total

- a. Analysis Description and Importance – *1 slide*
 - i. Original System façade
 - ii. SF of brick
 - iii. Cost of original system
 - iv. Schedule time
- b. Precast system – *1 slide*
 - i. Stats of precast (Oldcastle systems)
 - ii. SF of precast
 - iii. Cost of new system
 - iv. Schedule time
- c. Logistics – *1 slide*
 - i. Amount of panels (visual)
 - ii. Truck loads
 - iii. Delivery time (30 days lead time per batch)
 - iv. Restrictions
 - 1. Must wait till structure is done before erection
- d. Mechanical Breadth – *1 slide*
 - i. Two systems
 - ii. Cost savings
- e. Conclusions – *1 slide*

4. Analysis III: Structural Steel – 4 slides total

- a. Analysis Description and Importance – *1 slide*
 - i. Original organization expectations
 - ii. Shift to Design Assist
- b. Design Assist Case Studies – *1 slide*
- c. Survey – *1 slides*
 - i. Survey outline
 - ii. Survey participants
 - iii. Results
- d. Conclusions – *1 slide*

5. Analysis IV: BIM through AE (Critical Industry Issue) – 4 slides total

- a. Analysis description and importance – 1 slide
- b. OPP wants } – 1 slide
- c. AE wants }
- d. Trial experiences – 1 slide
 - i. Limited ability to produce what OPP wants
 - ii. Some good, some bad
 - iii. Problems with control
- e. First idea for creating a class – 1 slide
- f. E7 Studio
 - i. Internship idea
- g. Conclusion
 - i. Internship idea

Total 20 slides