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Lighting/Electrical Option
William H. Gates Hall
Mistrick/Dannerth
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Thesis Draft Presentation Outline

- I. Title Slide (1 Slide)
- II. Building Overview (1 Slide)
- III. Presentation Outline (1 Slide)
- IV. Lighting Depth
 - a. Introduction of Courtroom Space (1 Slide)
 - b. Courtroom Details (1 Slide)
 - c. Design Goals (1 Slide)
 - d. Schematic Design (1 Slide)
 - e. Space Design/Layout (1 Slide)
 - f. Final Renderings (2-3 Slides)
 - g. Conclusions (1 Slide)
 - i. Illuminance Values
 - ii. Power Density
 - iii. Design Goals
 - h. Other Spaces Designed & Renderings (3 Slides)
- V. Electrical Depth - Transformer Redesign
 - a. Overview of Current System (1 Slide)
 - b. Current System Riser (1 Slide)
 - c. Proposed Transformer Design (1 Slide)
 - d. Proposed System Riser (1 Slide)
 - e. Energy/Cost Analysis Comparison of Two Systems & Recommendation (1-2 Slides)
- VI. Mechanical Breadth – Design of Enthalpy Wheel In Library
 - a. Current System and Method of Humidity Control (1 Slide)
 - b. Enthalpy Wheel Design Requirements (1 Slide)
 - c. Enthalpy Wheel Design Schematic (1 Slide)
 - d. Total Energy Recovery (1 Slide)
 - e. Energy/Cost Comparison of Two System & Recommendations (1-2 Slides)
- VII. LEED Breadth – Feasibility Study of Rainwater Catchment System to Supply Cooling Tower Water Make-up
 - a. Concerns & System Goals (1 Slide)
 - b. Cooling Tower Water Make-up Requirements (1 Slide)
 - c. Sizing Catchment System & Storage Capacity (1 Slide)
 - d. Other Requirements – Water Treatment Etc. (1 Slide)
 - e. Potential Water/Cost Savings & Recommendations (1 Slide)
- VIII. Acknowledgements (1 Slide)
- IX. Questions (1 Slide)