South Nassau Communities Hospital North Addition

Oceanside, New York



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Lighting Electrical

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Professor Ted Dannerth

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AE 482 Senior Thesis **Presentation Outline**

Executive Summary

The following outline provides an estimate and general outline for the final thesis presentation to be presented on April 13, 2011. The outline provided is subject to change, but provides a good estimate of the topics to be covered during the presentation. Tentative topics to be covered include an electrical depth, three lighting spaces, two breadth topics, and MAE focus. Sample slides are also provided.

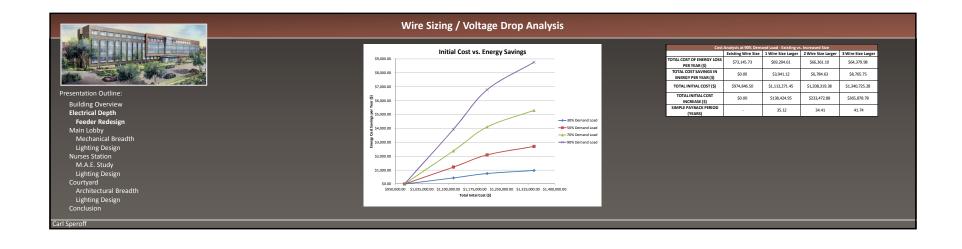
Outline

- 1. Introduction And Overview
 - a. Personal Introduction
 - i. Introduce self, building (1 Slide)
 - b. Building Introduction
 - i. Owners Vision, basis for design (1 Slide)
 - ii. Building Location, Stats, Design Team (5 Slides)
 - c. Scope of work and presentation
 - i. Scope of thesis work (1 Slide)
 - ii. Scope of presentation (1 Slide)
- 2. Electrical Design
 - a. Compare first cost of increasing feeder sizes to cost of energy saved
 - i. Overview, methods (2-3 Slides)
 - ii. Results (2 Slides)
- 3. Main Lobby
 - a. Description of Space (2 Slides)
 - b. Design goals
 - i. Building on original intent (2-3 Slides)
 - c. Mechanical Breadth
 - i. Changes to diffuser layout to achieve desired appearance (2 Slides)
 - d. Lighting Design
 - i. Design concepts, how they build upon overall design goals (2 Slides)
 - ii. Final solution including renderings, plans, equipment selection (4 Slides)
 - iii. Summary (2 Slides)
- 4. Nurses Station
 - a. Description of Space (2 Slides)
 - b. Design goals
 - i. Design concepts, how they build upon overall design goals (2 Slides)
 - c. MAE Study
 - i. Results of research on circadian rhythms and biological effects of light sources on nurses (2 Slides)
 - ii. Impact on lighting design (2 Slides)

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- d. Lighting Design
 - i. Final solution including renderings, plans, equipment selection (4 Slides)
 - ii. Summary (2 Slides)
- 5. Courtyard
 - a. Description of Space (2 Slides)
 - b. Design goals
 - i. Design concepts, how they build upon overall design goals (2 Slides)
 - c. Landscape Architecture / Architecture Breadth
 - i. Intent and Concepts (1 Slide)
 - ii. Changes to space (renderings and plan) (4 Slides)
 - d. Lighting Design
 - i. Final solution including renderings, plans, equipment selection (4 Slides)
 - ii. Summary (2 Slides)
- 6. Summary and Conclusions
 - a. Summary of solution related to original goals (2 Slides)
 - b. Acknowledgements (2 Slides)
 - c. Question and answer (1 3 Slides)

AE 482 Senior Thesis **Presentation Outline**





resentation Outline:

Building Overview
Electrical Depth
Feeder Redesign
Main Lobby
Mechanical Breadth
Lighting Design
Nurses Station
M.A.E. Study
Lighting Design
Courtyard
Architectural Breadth
Lighting Design
Conclusion

Building Overview

Building Statistics

Location: Oceanside, New York

Size: 160,000 SF Cost: \$64,100,000

Construction: December 2003 – May 2005

Project Team

Owner: South Nassau Communities Hospital

Architect: Cannon Design Engineer: Cannon Design

Construction Manager: Bovis Lend Lease General Contractor: KLMK Group





Main Lobby – Lighting Design

Design Considerations

- Appearance Create a lasting first impression
- Architecture Build on initial concept
- Impression Create a relaxing, spacious environment
 Orientation Highlight points of interest
 Circulation Encourage movement

