

Presentation Outline

I. Introduction

- a. Image of building given by Architect (1 Screen)
- b. Thesis Scope of work in center screen (3 Screens)
- c. Presentation Outline in center with grayed out topics not discussed (1 Screen)
- d. Presentation Outline on right for now on throughout presentation with building overview in center and google map on far right (3 screen)

II. Lighting Depth

- a. General Design Goals of Lighting Design in Center (1 Screen)
- b. Exterior Space
 - i. Design Considerations and Criteria in center (1 Screen)
 - ii. Floor Plan indicating important areas and light locations (2 Screens)
 - iii. Renderings in center and on side (2 Screens)
 - iv. Pseudo Color Diagrams and conclusions (2 Screens)
- c. Fitness and Weight Room
 - i. Design Considerations and Criteria in center (1 Screen)
 - ii. Floor Plan indicating important areas and light locations (2 Screens)
 - iii. Renderings in center and on side (2 Screens)
 - iv. Pseudo Color Diagrams and conclusions (2 Screens)
- d. (*POSSIBLE*) Main Lobby
 - i. Design Considerations and Criteria in center (1 Screen)
 - ii. Floor Plan indicating important areas and light locations (2 Screens)
 - iii. Renderings in center and on side (2 Screens)
 - iv. Pseudo Color Diagrams and conclusions (2 Screens)

III. Electrical Depth

- a. Motor Control Center Design Goal and Floor Plan of Mechanical/ Electric Room (2 screens)
- b. Chart in middle breaking down cost of wire and assembly of disconnect at motor rather than a centralized MCC (2 Screens)

IV. Mechanical Breadth

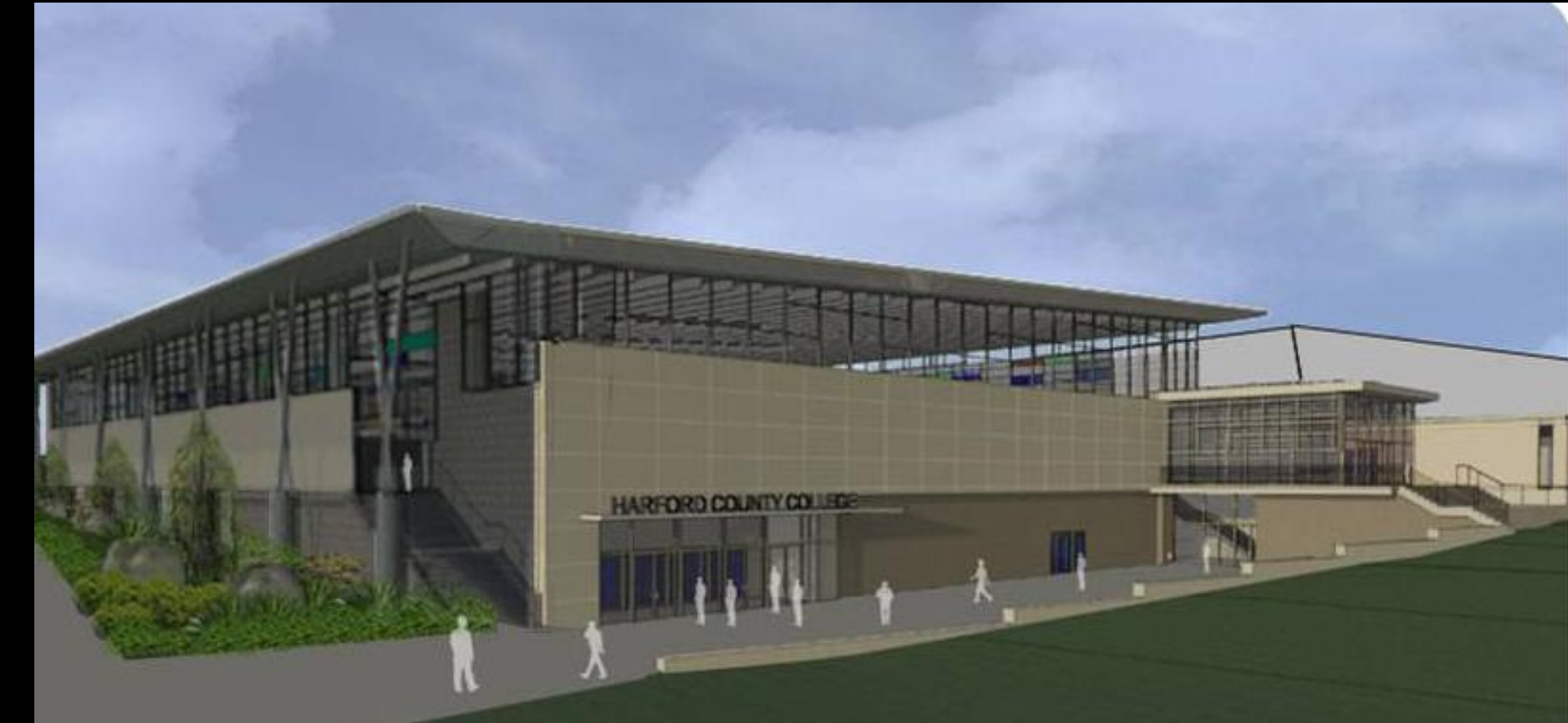
- a. Chiller Redesign Design Goal and Floor Plan of additional Skylights (2 Screens)
- b. Chart in middle screen breaking down existing conditions with new skylights and cooling via tons (2 Screens)
- c. Explain peak loads per season and indicate how initial chiller is sufficient to handle additional cooling load (2 Screens)

V. Conclusions

- a. Reiterate Design Goals for the Lighting, Electrical and Mechanical Depths and Breadths (2 Screens)

VI. Acknowledgements

- a. Provide a Thank you to professors, project team, classmates, and family in center screen (1 Screen)
- b. Questions in center screen (1 Screen)



Lighting Redesign

Exterior Façade

Main Lobby

Fitness and Weight Room

Auxiliary Gymnasium

Electrical Branch Circuit Redesign

Electrical Depths

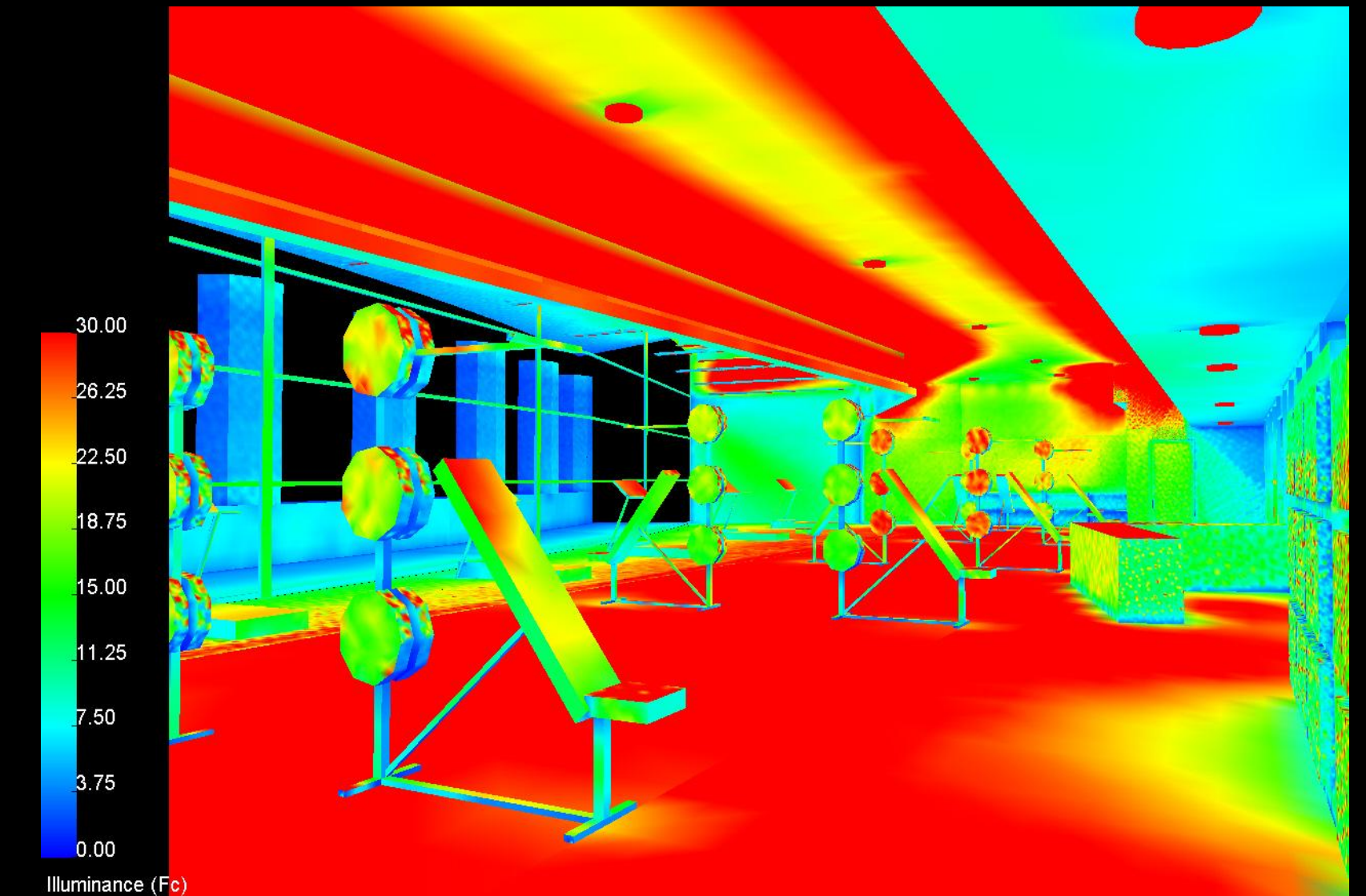
Motor Control Center

SKM Analysis

Structural Breadth

Mechanical Breadth

- Introduction/ Building Overview
- Lighting Redesign
 - Exterior Façade
 - Fitness and Weight Room
 - Main Lobby
- Electrical Depth Topics
 - Motor Control Center
- Mechanical Breadth
 - Chiller Redesign
- Conclusions
- Acknowledgments



- Introduction/ Building Overview
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- Design Goals
 - Determine the additional Cooling in the Auxiliary Gymnasium due to the addition of skylights
 - Determine if Existing Chiller can supply enough cooling to space with additional load and redesign accordingly

