

Tyler Meek – Structural Option  
AE Senior Thesis 2011  
33 Harry Agganis Way, Boston Ma.



## Presentation Outline

Introduction

Existing Structure

Thesis Goals

- Structural Depth

Architectural Breadth

Construction Management Breadth

Conclusion

Questions & Comments

## Structural Depth

AISC Design Guide 14: *Staggered Truss Framing Systems* provided excellent guidance

### Gravity Design

Method of joints to calculate member forces

Assumptions specified in Design Guide used to account for continuous chord members

Image of truss  
with member sizes



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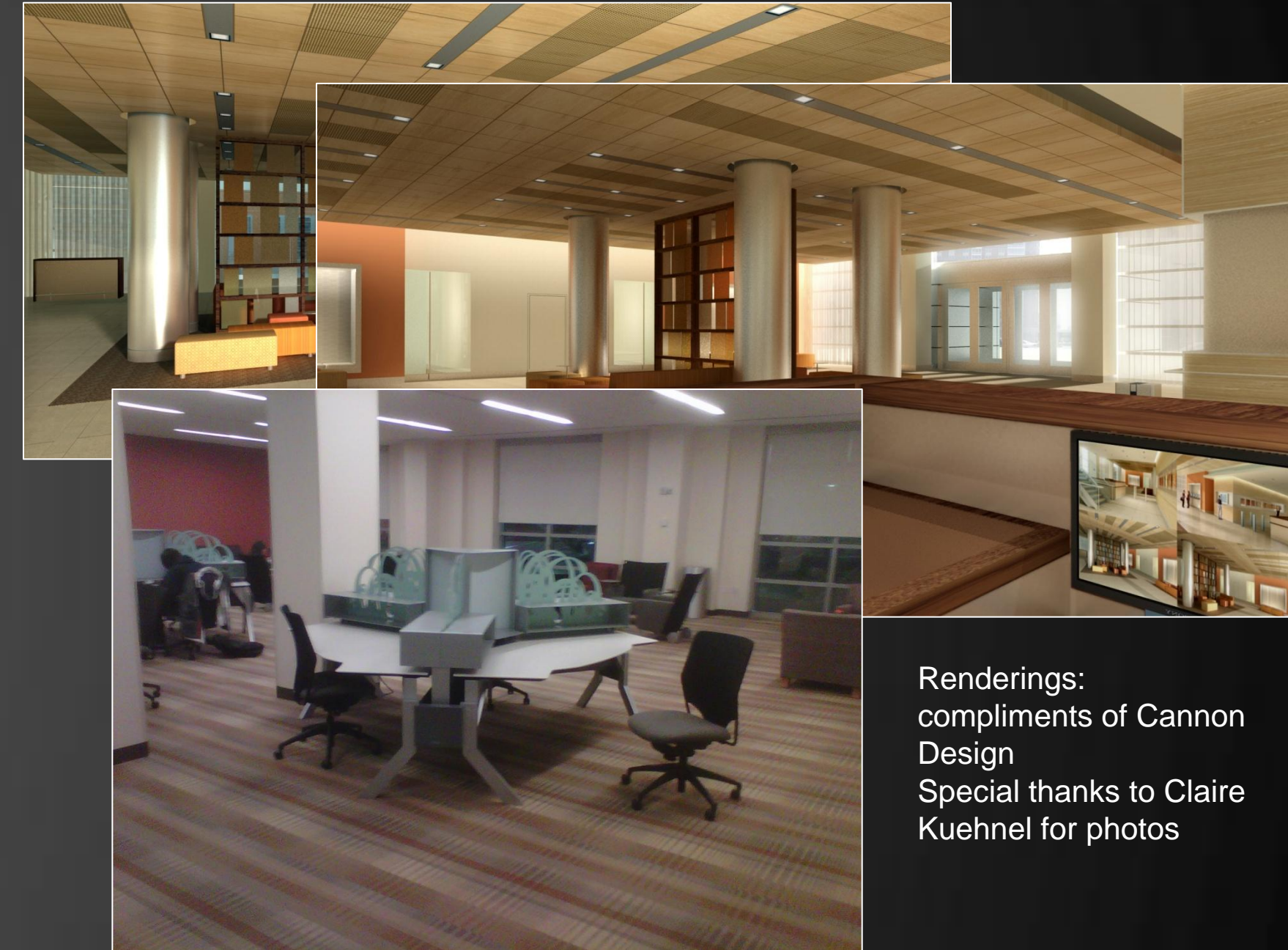
## Architectural Breadth

### Areas of Concern

Meeting area/observatory on 26<sup>th</sup> floor

Main Lobby

Large study area on 2<sup>nd</sup> floor



Renderings:  
compliments of Cannon  
Design  
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