

Wade Myers
Presentation Outline
3/25/2011

1. Title Slide **(1)**
2. Introduction **(6)**
 - 2.1. Personal Introduction
 - 2.2. Building Specifications
 - 2.3. Project Specifications
3. Existing Mechanical System **(3)**
 - 3.1. System Type
 - 3.2. Equipment Layout
 - 3.3. Loads
4. Architectural Breadth **(11; mainly images)**
 - 4.1. Façade Changes
 - 4.2. Load Changes
5. Proposed Mechanical System Alterations (Mechanical Depth) **(11)**
 - 5.1. Proposed System Type
 - 5.2. Ground Study
 - 5.3. Loads
 - 5.4. Layout
 - 5.5. Cost and Payback
6. CM Breadth **(4)**
 - 6.1. Cost
 - 6.2. Schedule
7. Conclusion **(1)**
8. Acknowledgements **(1)**

Total: **38 Screens**

Glen Burnie High School

Glen Burnie, MD

Project/Building Specifications

Building Occupant	Anne Arundel County Public Schools
Occupancy Type	Education—High School
Size	110,000 Square Feet
Number of Stories	3
Project Team	Owner: Anne Arundel County Public Schools
	Architect: JRS Architects
	Mechanical & Electrical Engineer: JMT
	Civil & Structural Engineer: Carroll Engineering
	General Contractor: RWC Contracting
	Mechanical Contractor: Chilmar
Construction Dates	May 2010—August 2011
Renovation Costs	\$6,000,000
Project Delivery	Design-Bid-Build

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Mechanical Option

Introduction

Existing Mechanical System

Architectural Breadth

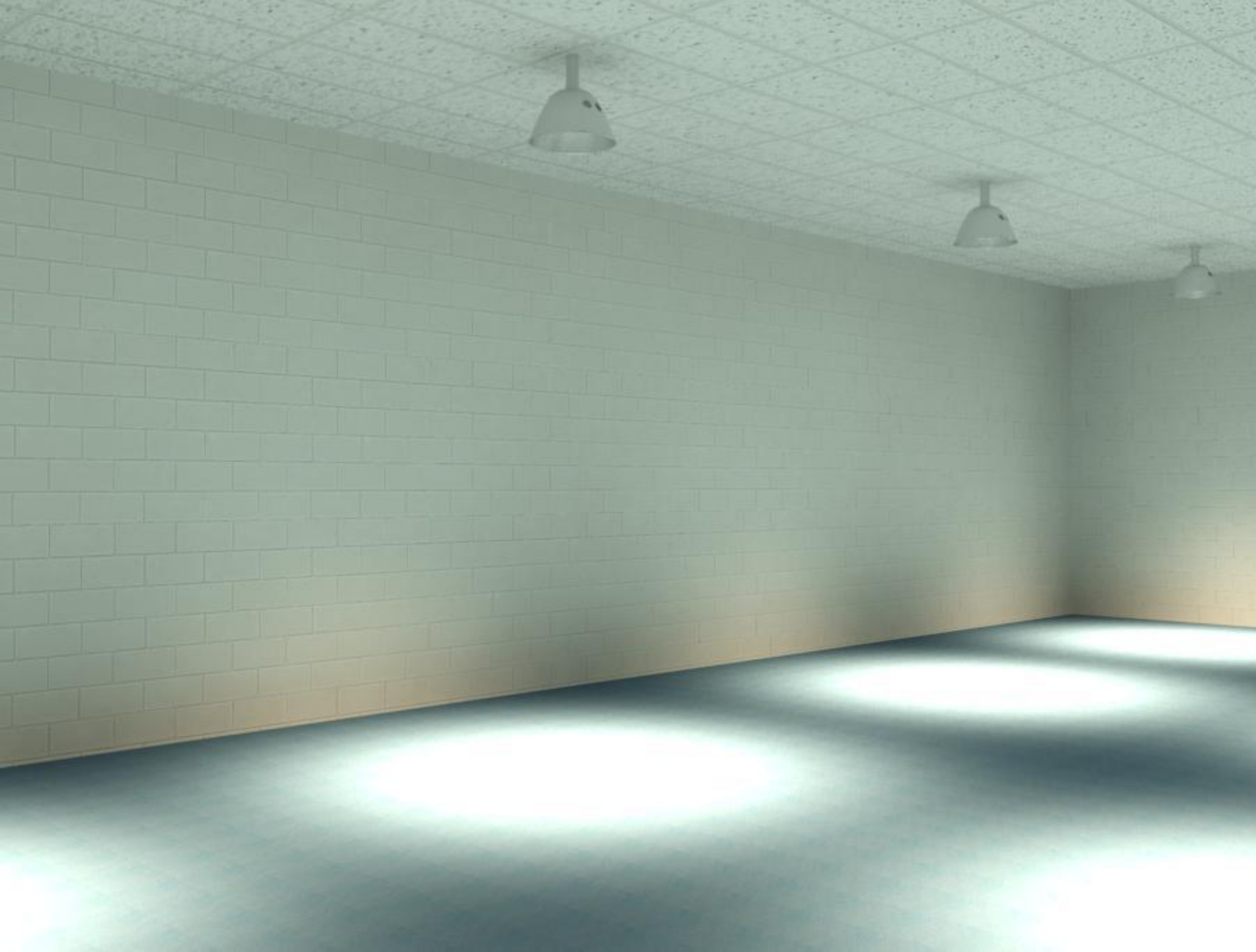
Proposed System Alterations

CM Breadth

Conclusion

Acknowledgements





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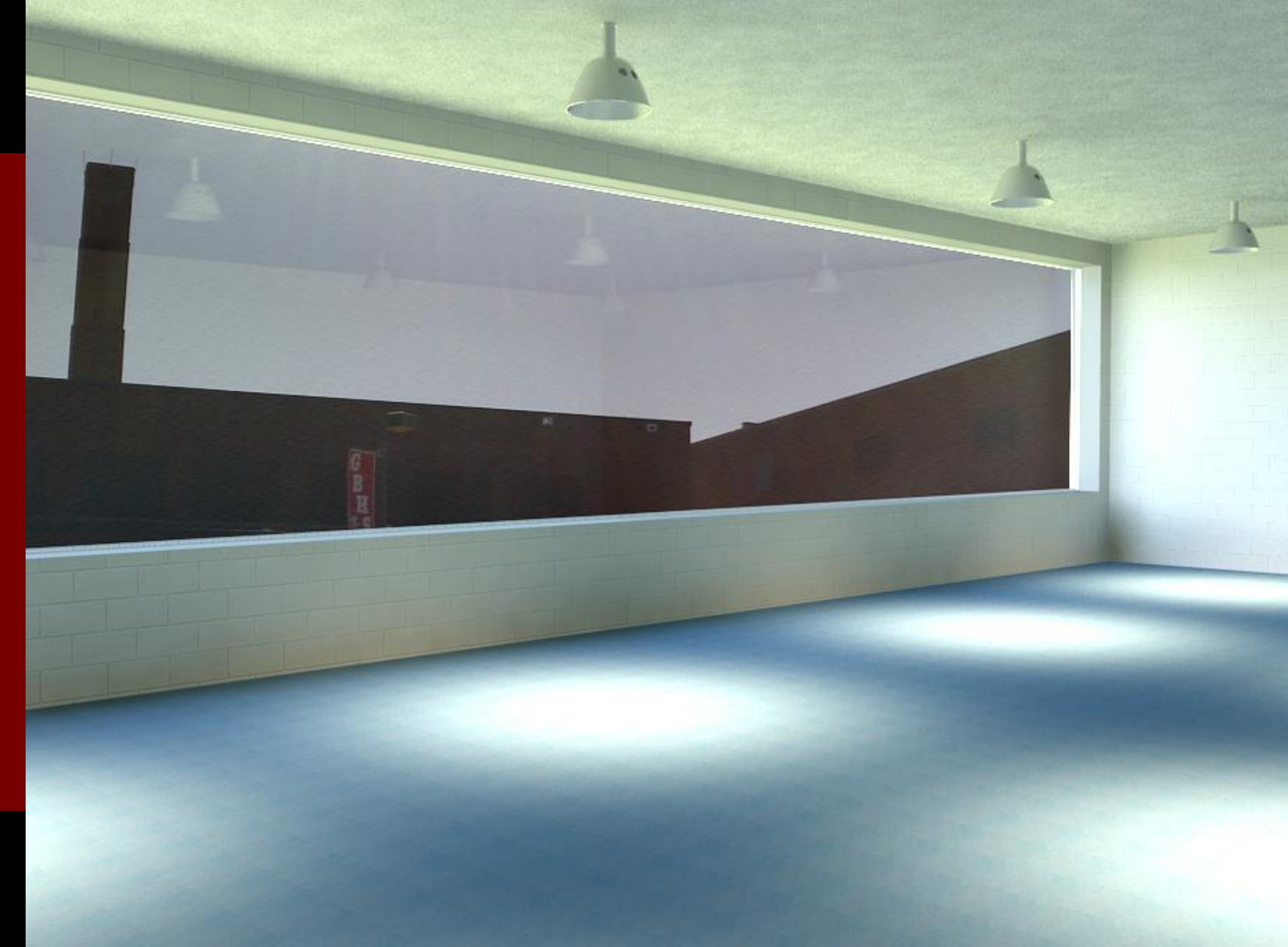
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Architectural Breadth

- ▶ Glazing added to southern wall
- ▶ Ambient light to gymnastics area
- ▶ Increases thermal load on area

Window Replacement Load Changes

Area	Load Before (tons)	Load After (tons)
Gymnastics Area	6.4	7.5



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Mechanical Option

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GSHP System

- ▷ 27,236 feet of bores
- ▷ 100 bores, 275 feet deep
- ▷ 10 x 10 grid layout
- ▷ Reverse return piping

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Mechanical Option

