





Using Wood Framing to Craft Award-Winning Projects: Case Studies and Lessons Learned

2025



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Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.



Course Description

This presentation showcases a series of award-winning wood and timber-based projects, each exemplifying the sustainable benefits of utilizing wood in construction. Through an exploration of case studies, project team members will delve into the rationale behind selecting wood as the primary building material, examining its environmental advantages and aesthetic appeal. Design innovation typically comes through iteration, and these projects are no exception. They will share unique challenges faced and the lessons learned throughout each project's lifecycle. Participants will gain a comprehensive understanding of the sustainable attributes of wood in construction, the criteria for selecting wood as a material, and the practical insights into successful implementation gleaned from real-world examples.

Learning Objectives

- 1. Understand the environmental benefits of utilizing wood in construction, including its role in mitigating carbon emissions and promoting sustainability.
- 2. Evaluate the criteria for selecting wood as a primary building material in diverse architectural projects.
- 3. Analyze case studies of award-winning wood and timber projects to identify design strategies, construction techniques, and sustainability practices employed.
- 4. Discuss lessons learned from the challenges and successes encountered in the execution of wood-based construction projects, and apply these insights to future architectural endeavors.

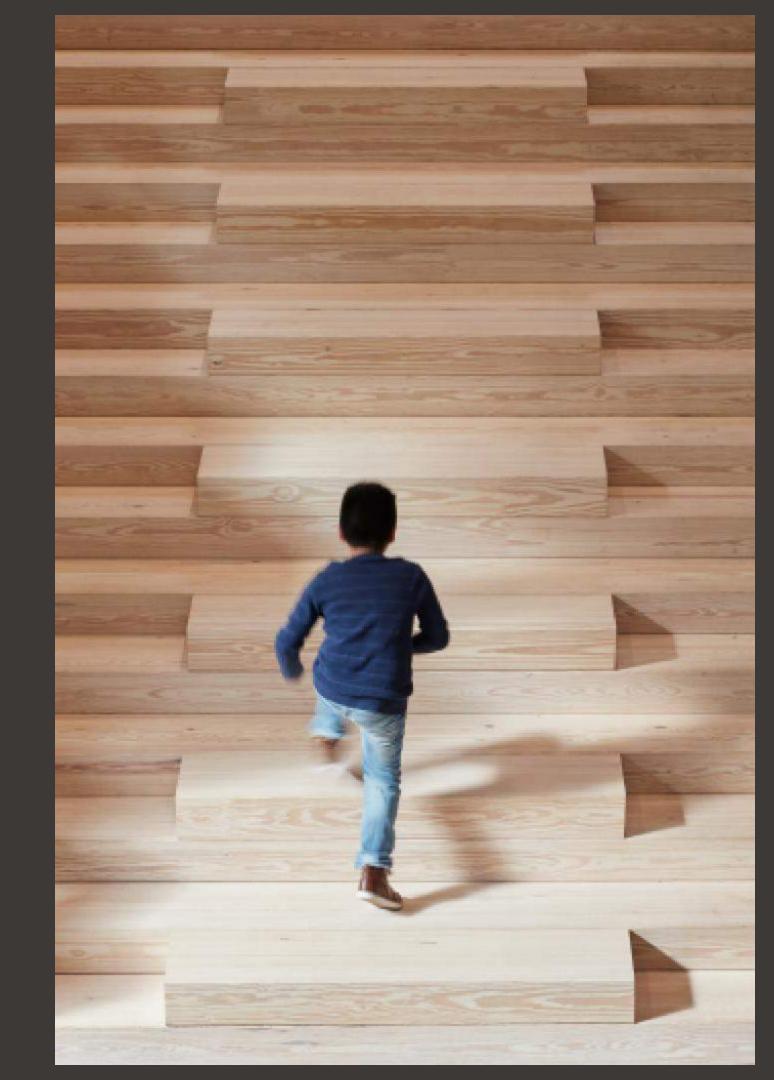
Award Criteria

Design Excellence

Innovative Use of Wood

Sustainability and Resilience

Market Impact

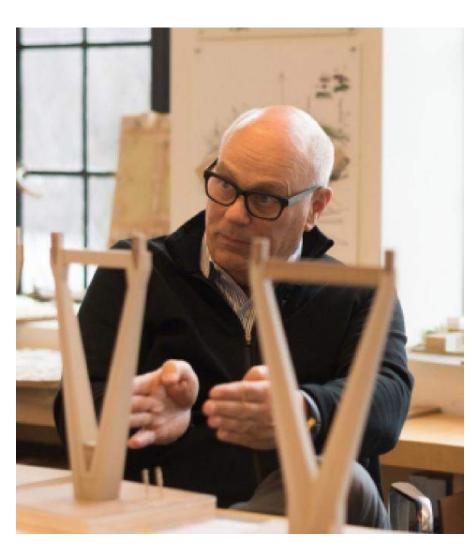


154 Broadway



ARCHITECT
Michael LeBlanc, AIA
Principal, Utile, Inc.

T3 RiNo



ARCHITECT
Anthony Markese, FAIA, RIBA, LEED AP
Principal, Pickard Chilton

Dicke Hall



ARCHITECT
Ryan Jones, AIA, LEED AP BD+C
Partner, Lake Flato Architects

154 Broadway

ARCHITECT

Utile, Inc.

STRUCTURAL ENGINEER

RSE Associates

GENERAL CONTRACTOR

Haycon, Inc.

OWNER

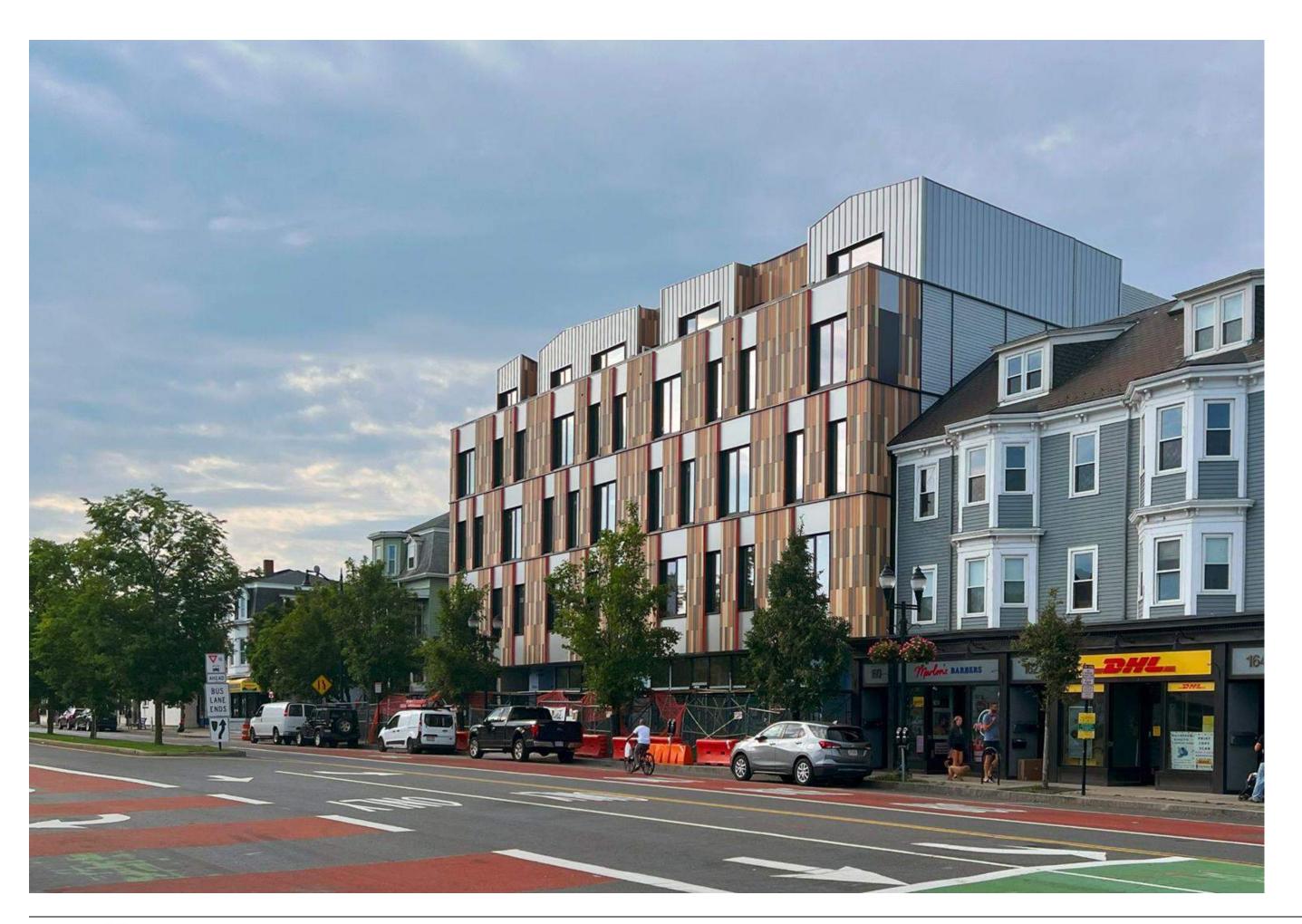
Construction Managers & Developers LLC

Using Wood Framing to Craft Award-winning Projects

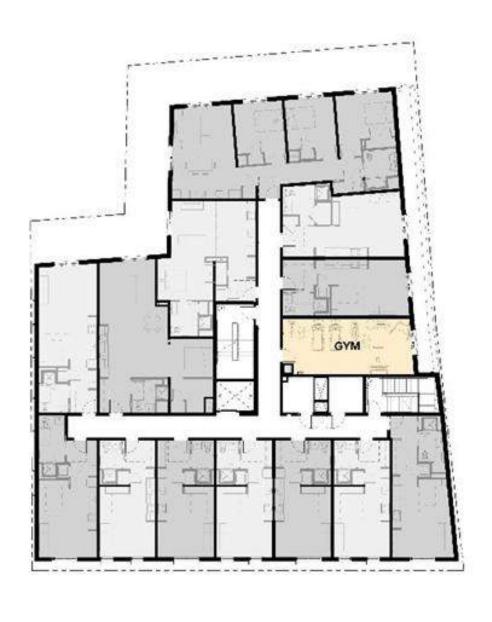
Case Studies and Lessons Learned

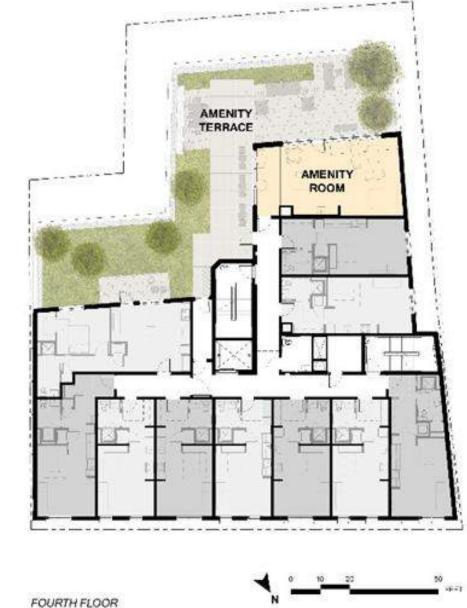
154 Broadway, Somerville, MA

Disclaimer: This presentation was developed by a third party and is not funded by WoodWorks or the Softwood Lumber Board

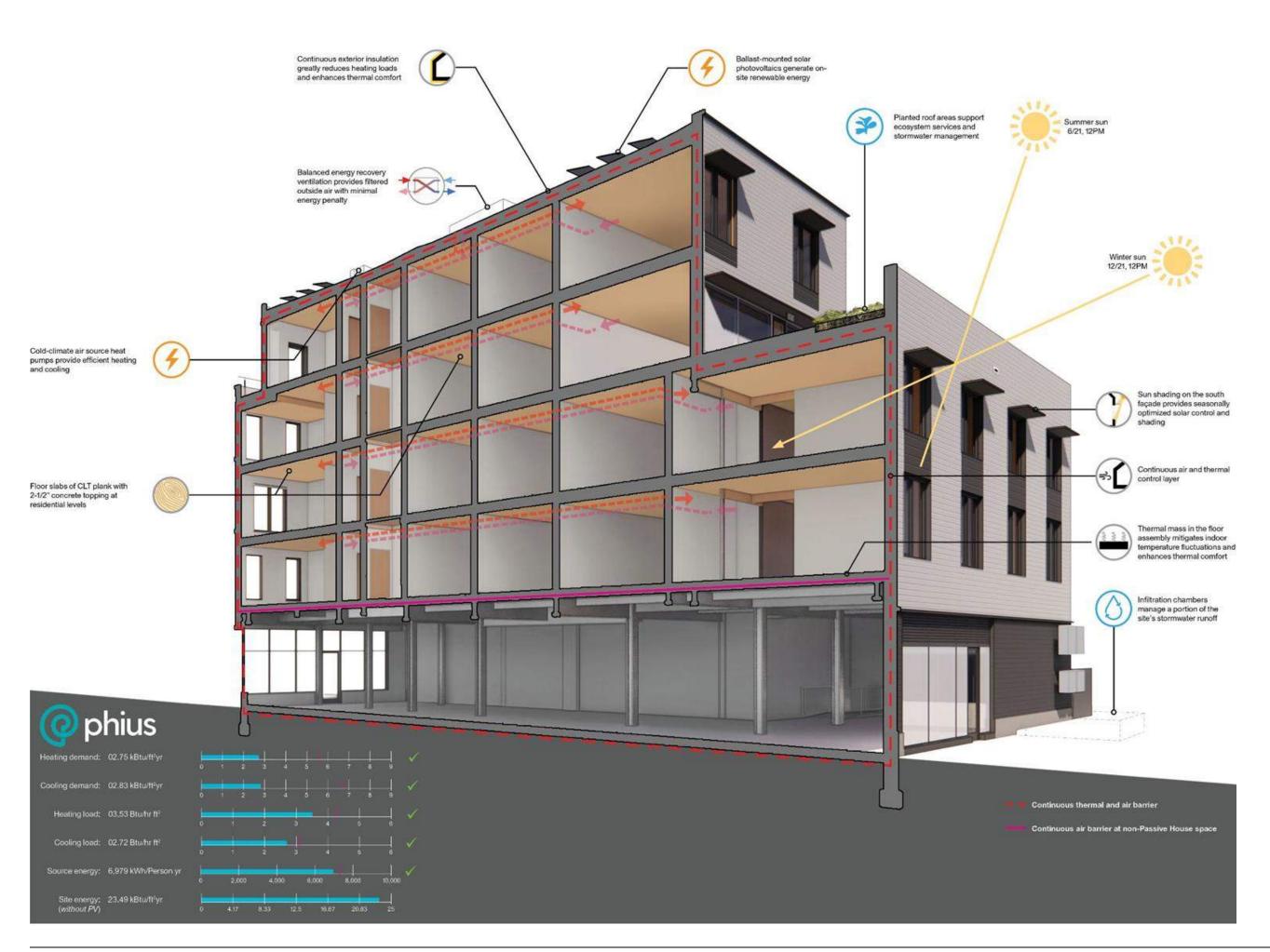








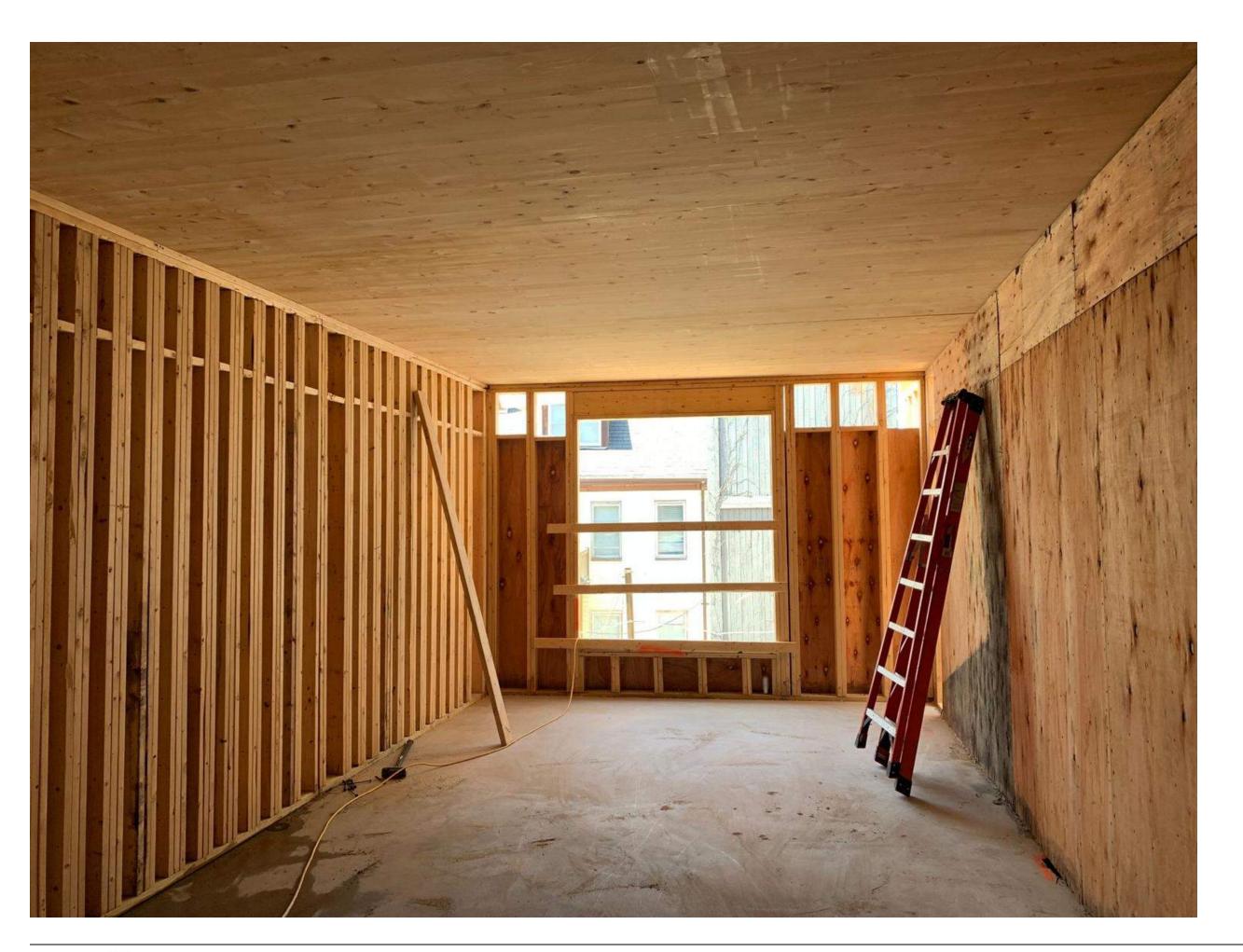
SECOND FLOOR







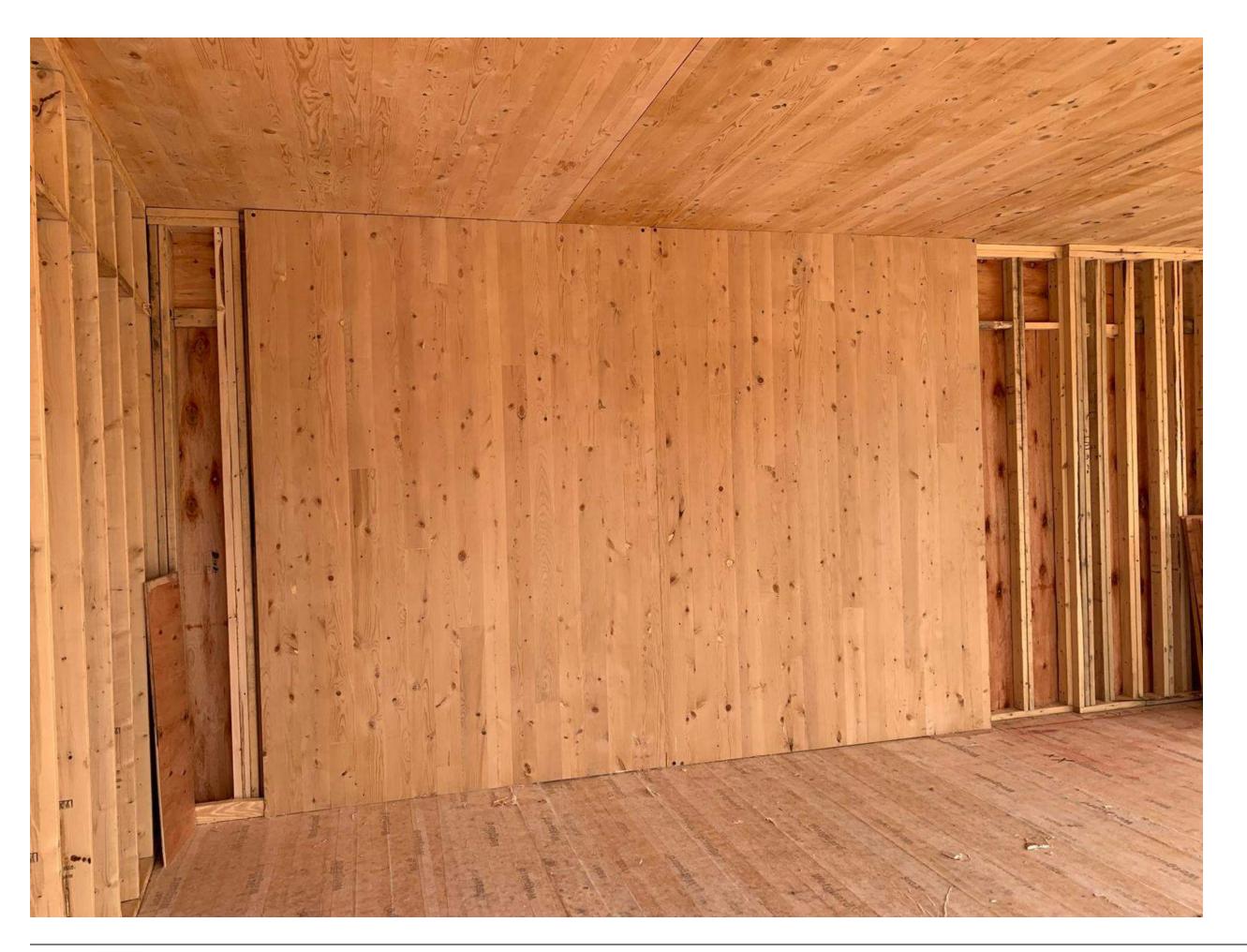


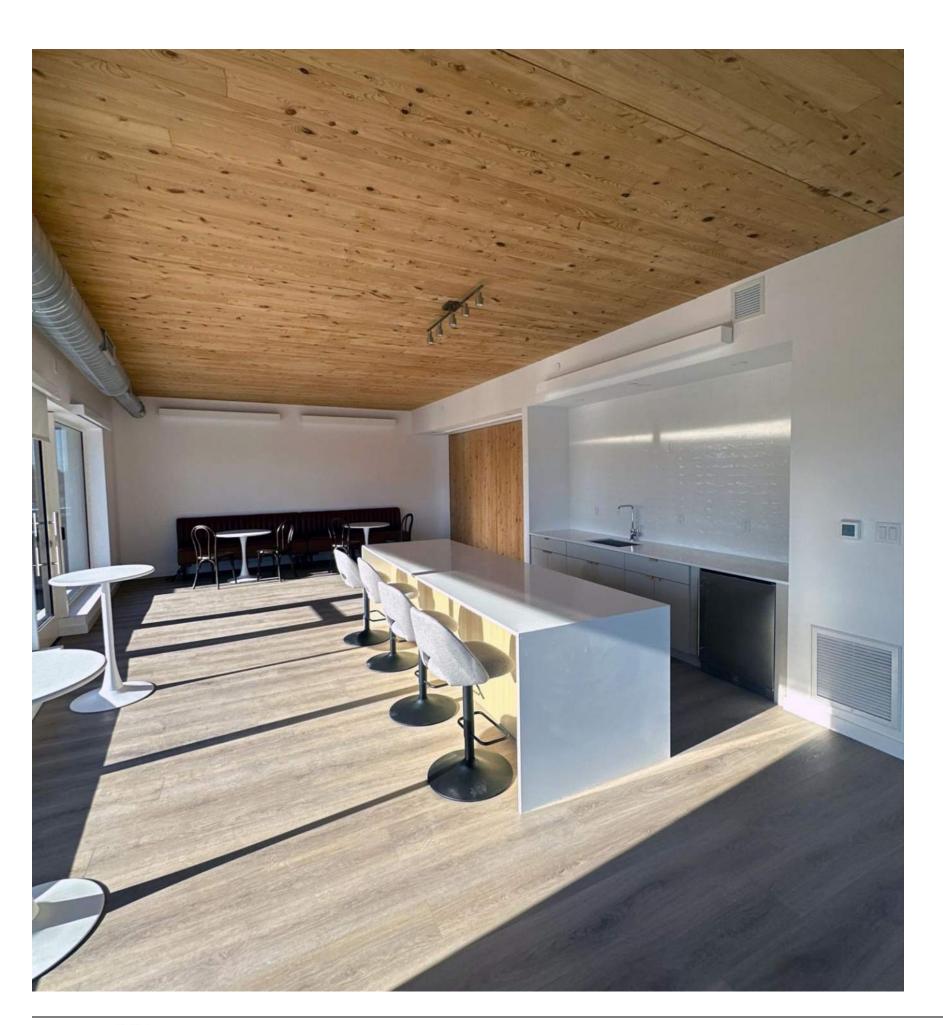


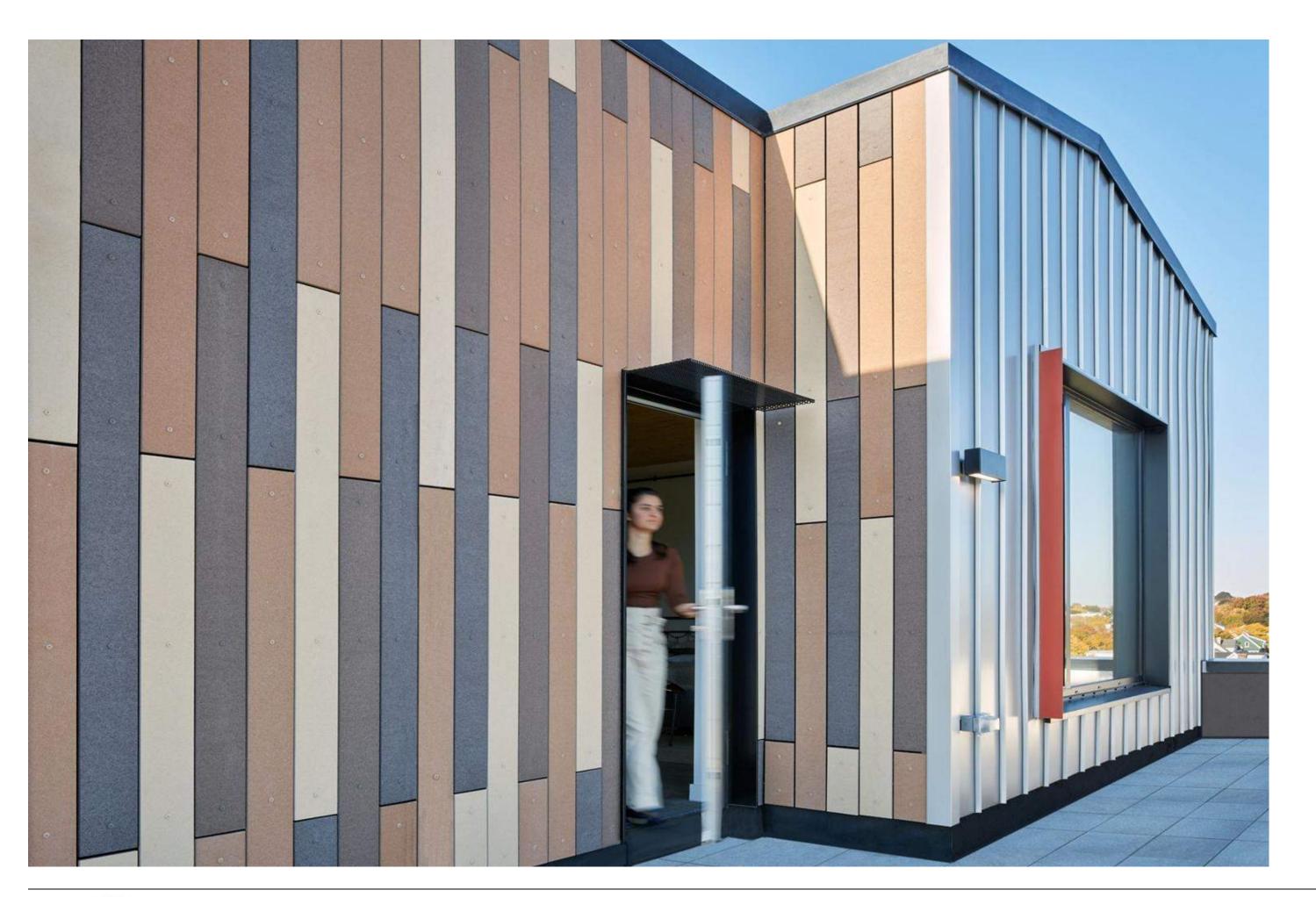


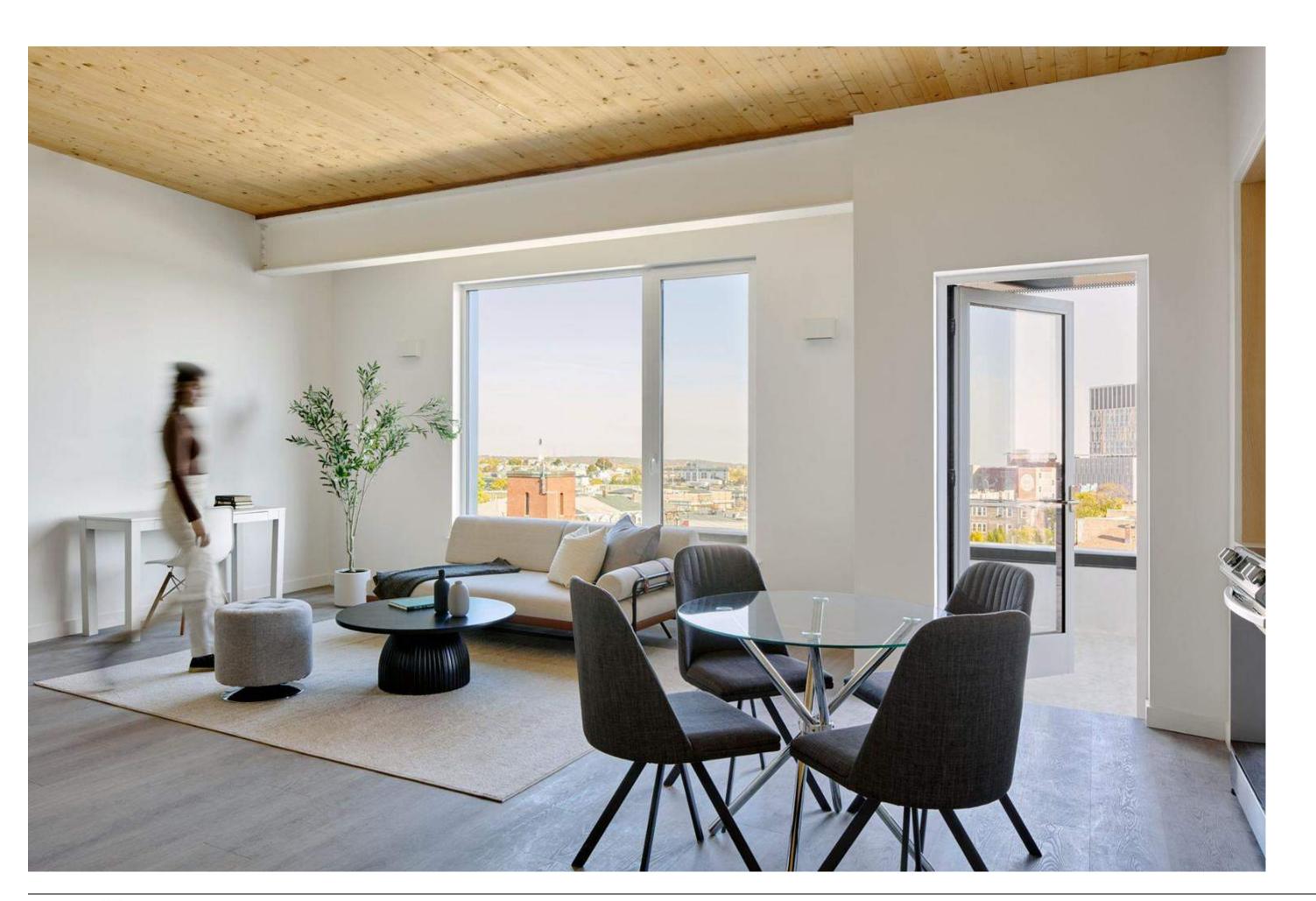


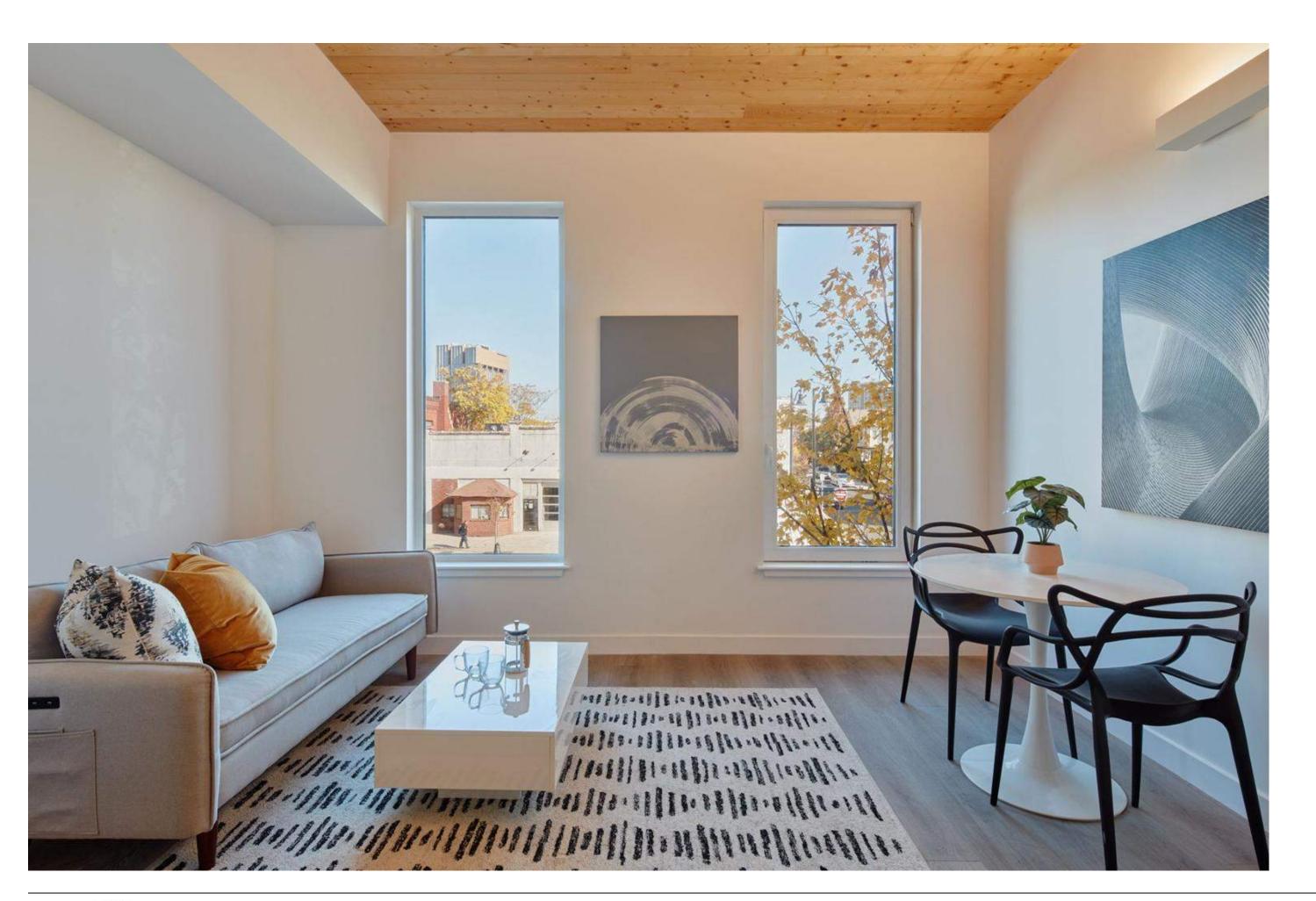




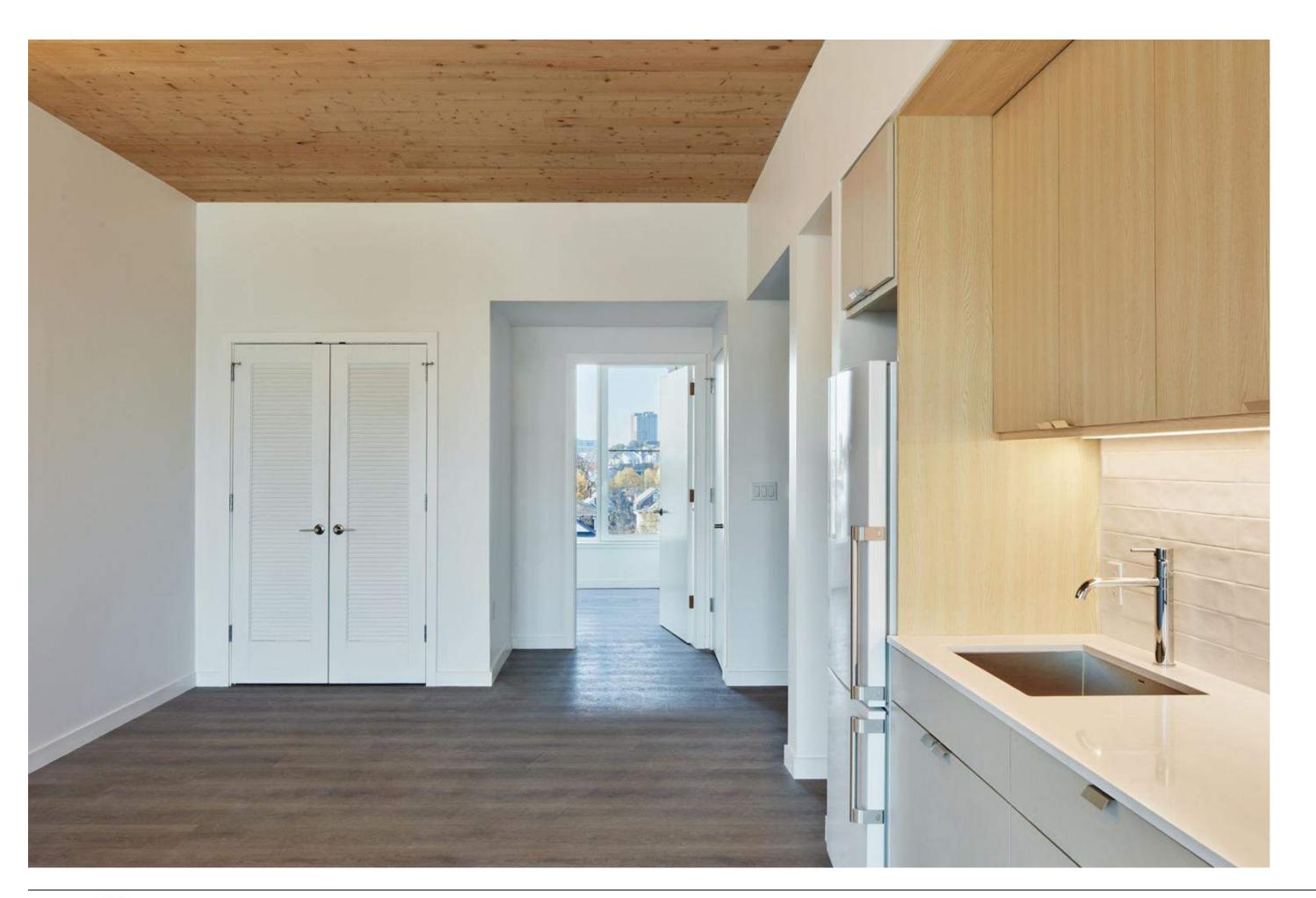


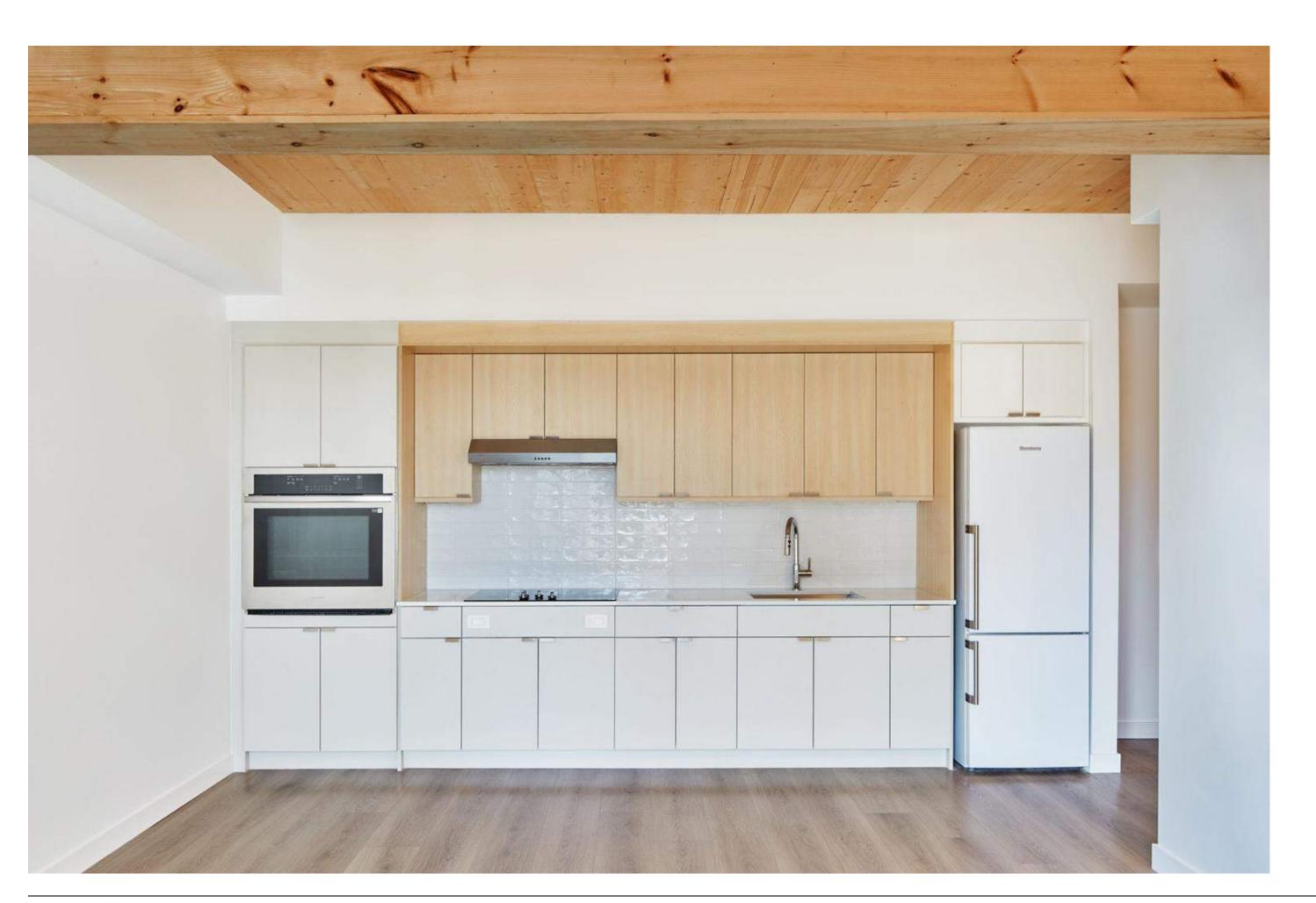


















T3 RiNo

ARCHITECT

Pickard Chilton (Design Architect)
DLR Group (Architect of Record)

STRUCTURAL ENGINEER

Magnusson Klemencic Associates

GENERAL CONTRACTOR

Whiting-Turner

OWNER

Hines / Ivanhoé Cambridge / McCaffery Interests



384K

TOTAL GSF

38%

REDUCTION OF EMBODIED CARBON

1.2K

OCCUPANTS

5.8K

TOTAL POTENTIAL CARBON BENEFIT

188K

CUBIC FEET MASS TIMBER

1.2K

EQUIVALENT CARS
OFF THE ROAD



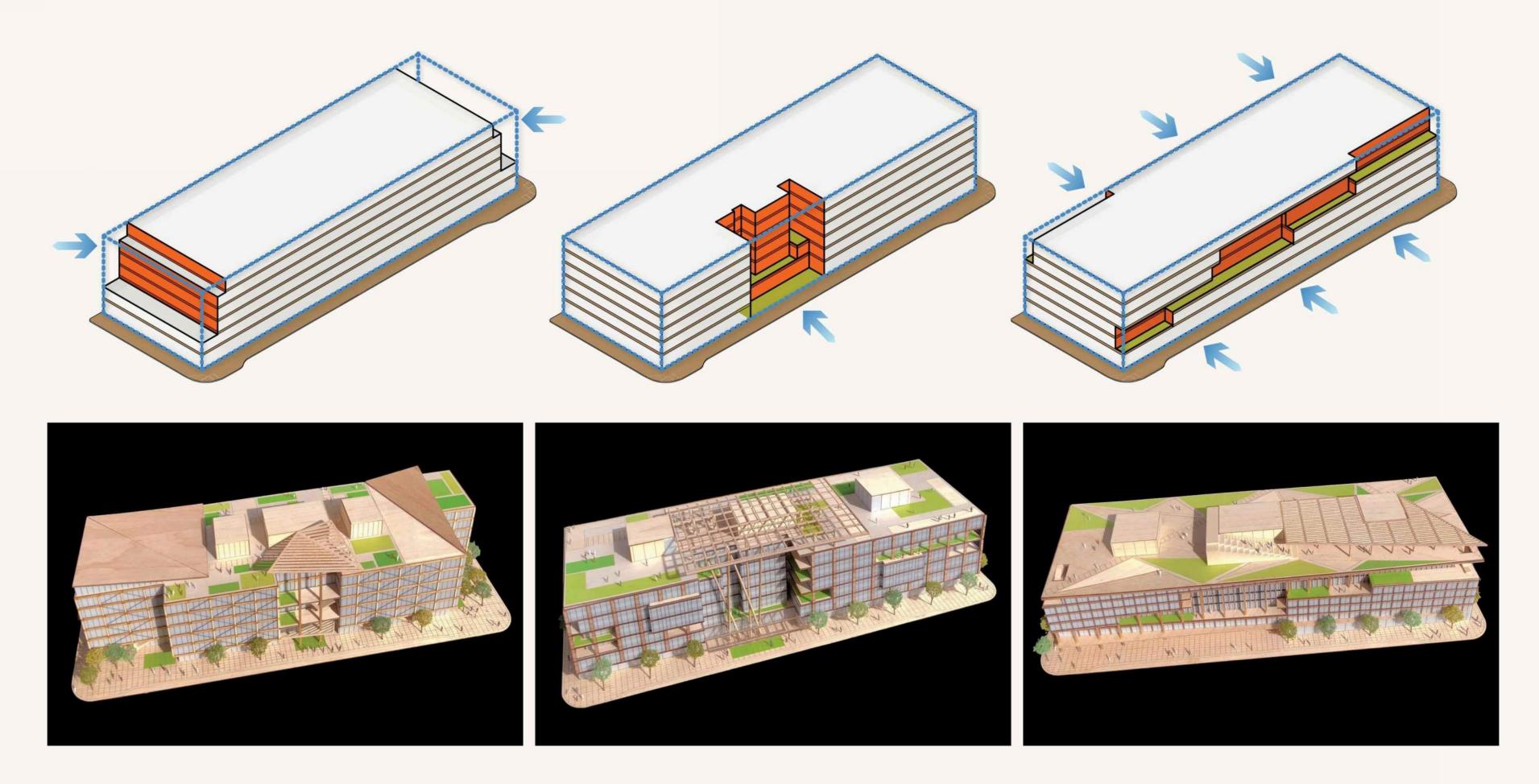












Mass Reduction Studies















Dicke Hall

ARCHITECT

Lake Flato Architects

STRUCTURAL ENGINEER

Datum Engineers

GENERAL CONTRACTOR

Turner Construction

OWNER

Trinity University

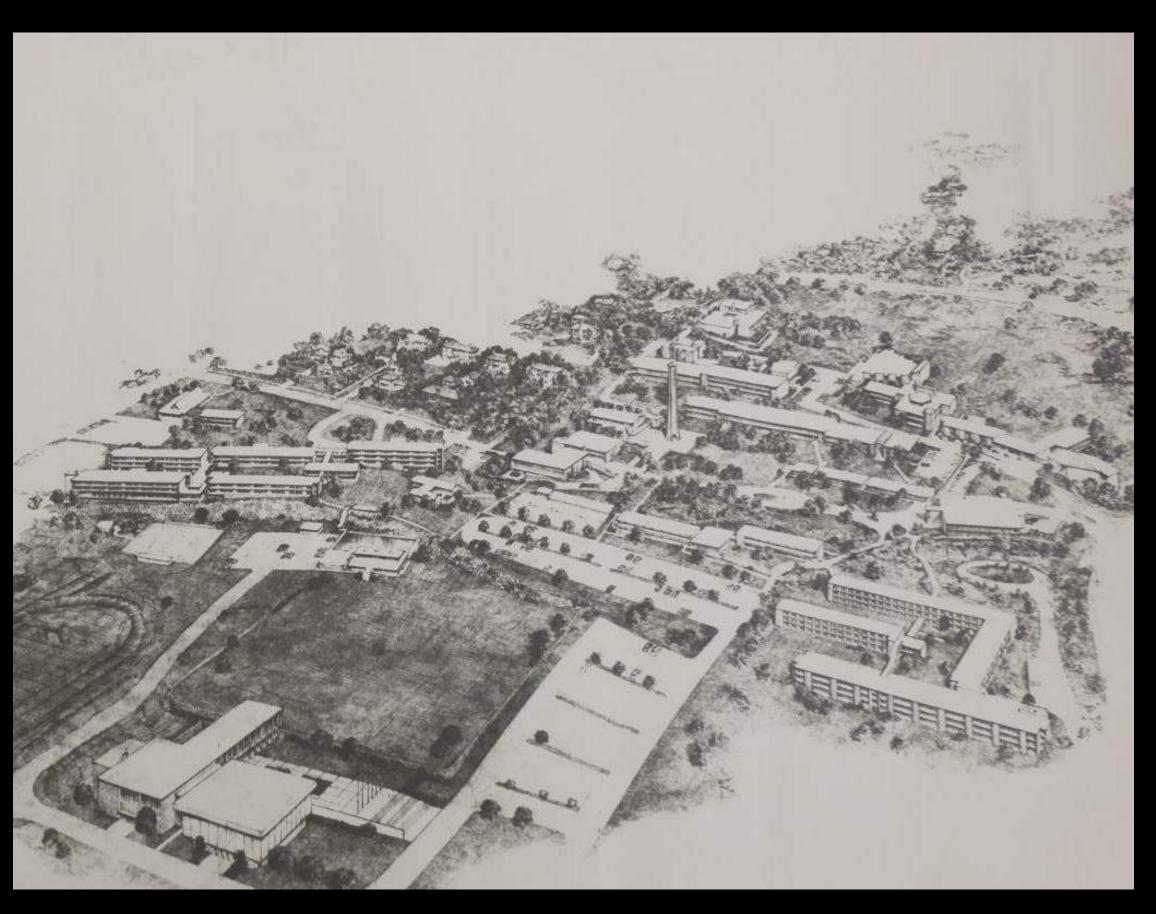


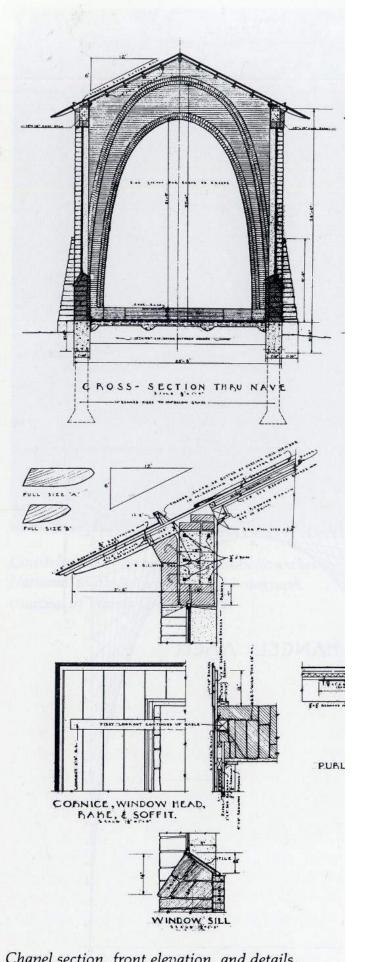
Dr. James Laurie, President of Trinity University
O'Neil Ford, Architect



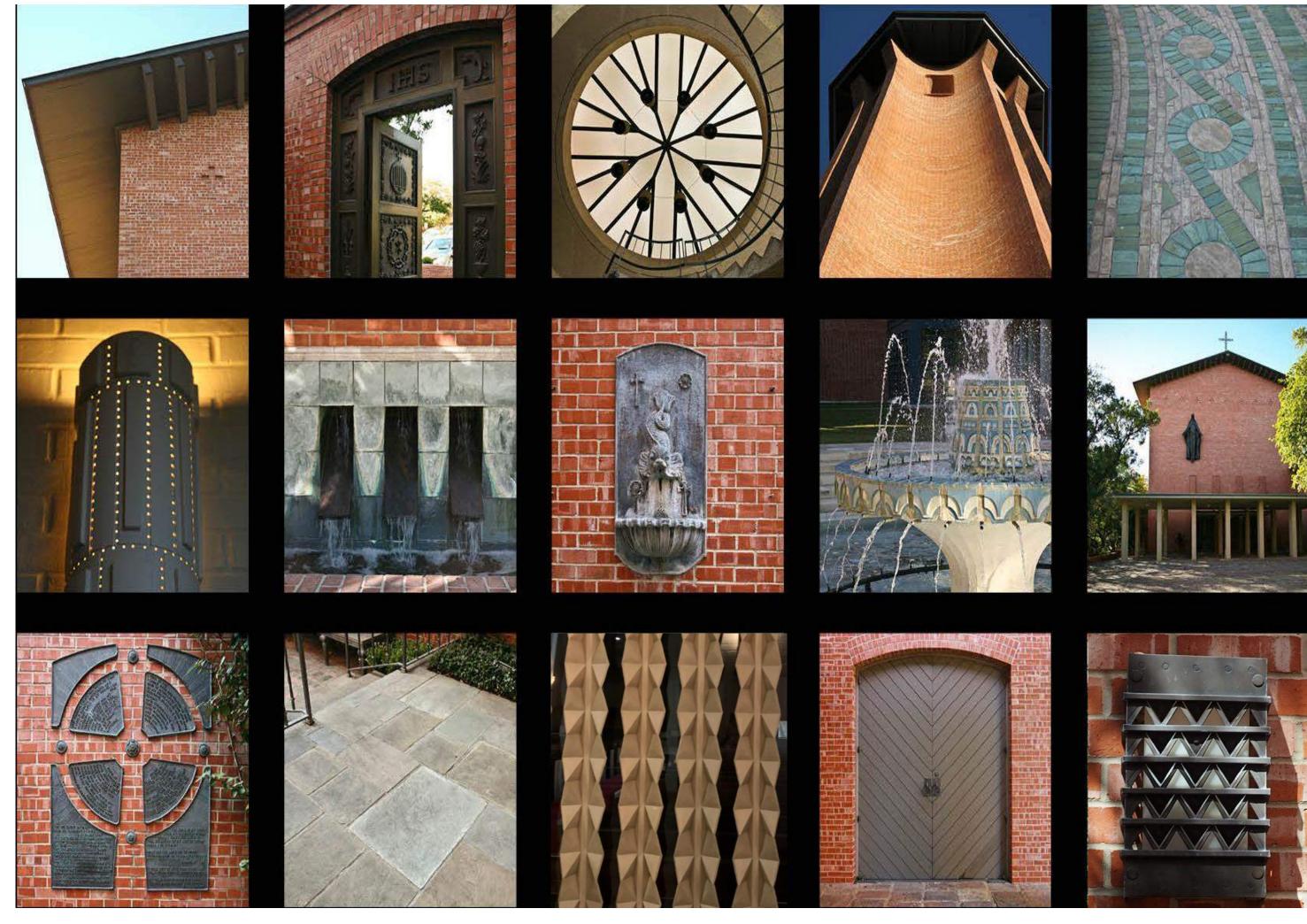


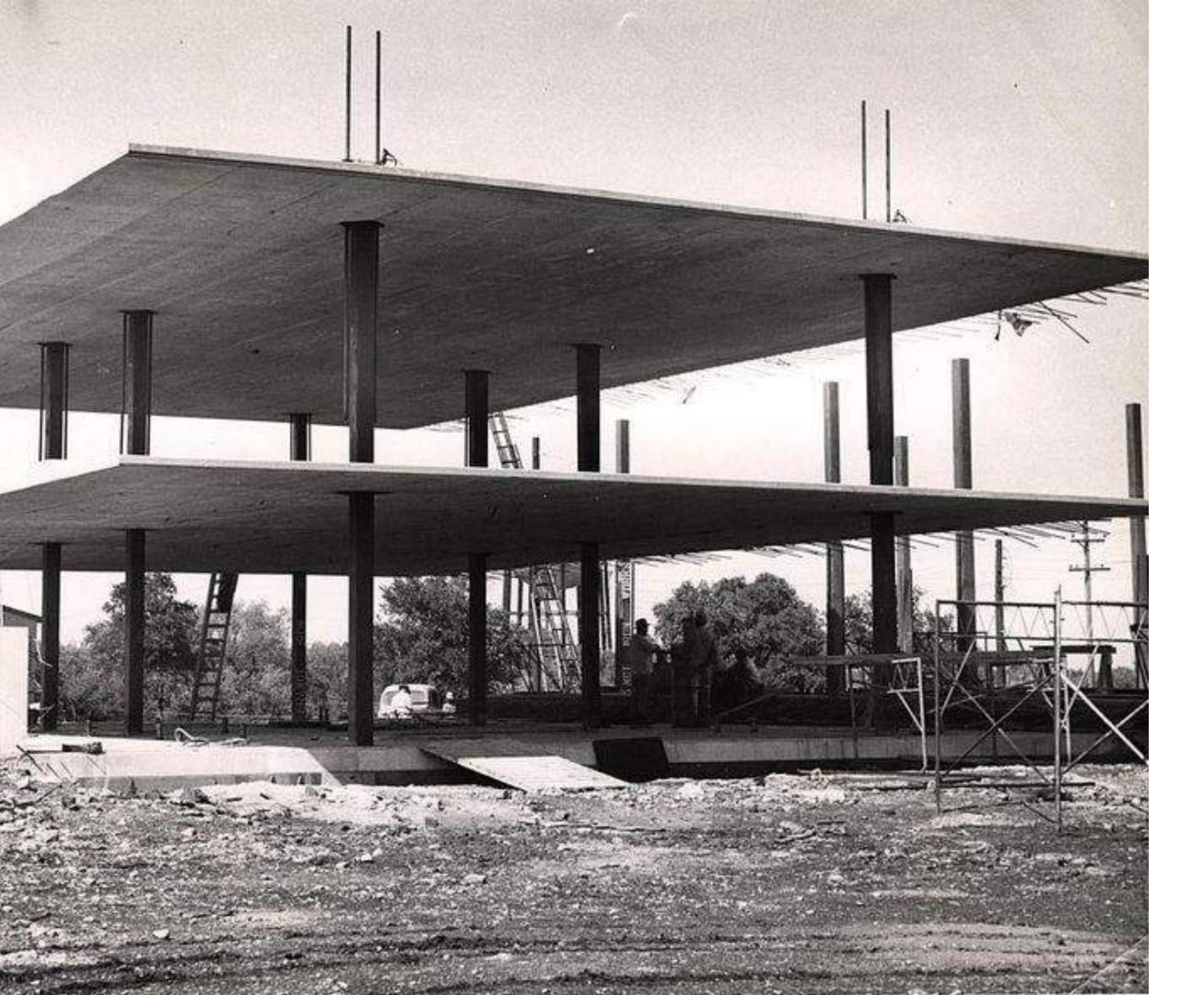






Chapel section, front elevation, and details.
Working drawings for the Little-Chapel-in-the-Woods by Jerry Rogers. Files of Ford, Powell and Carson.





"Perhaps we had better get underneath it as soon as it is high enough, because if it does fail, you and I will be vastly better off there!"

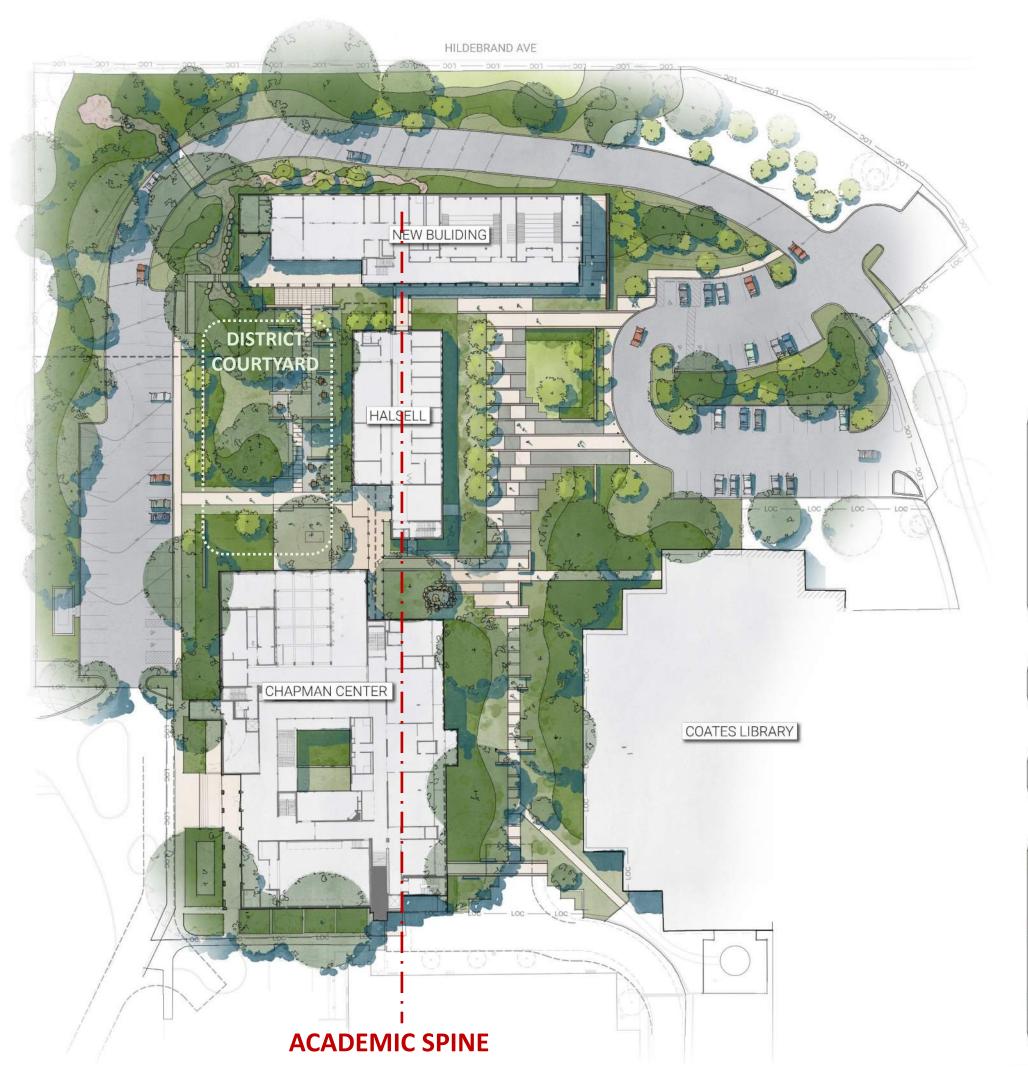
President Laurie to O'Neil Ford











A BUSINESS & HUMANITIES DISTRICT

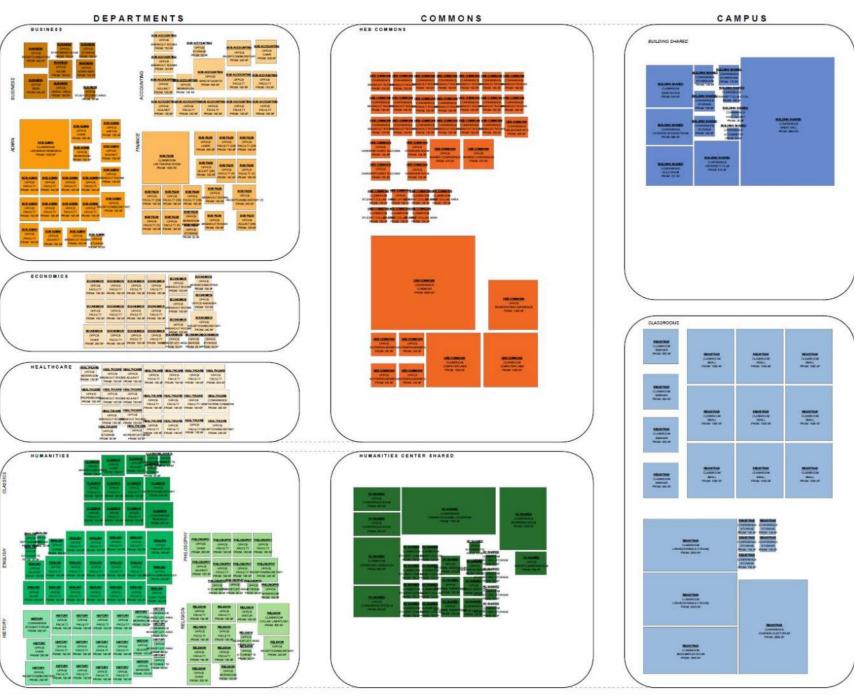
3 Buildings

10 Departments

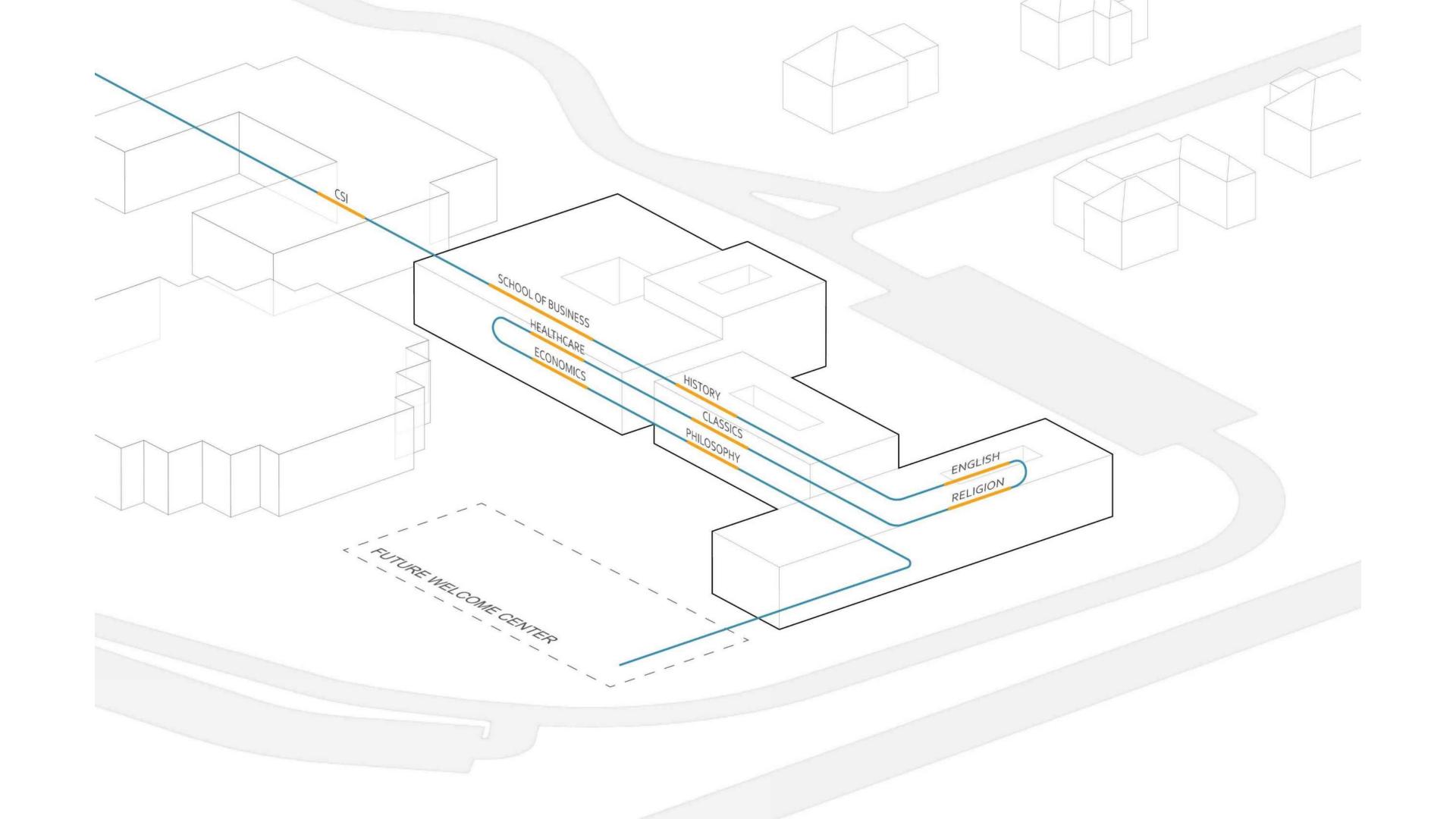
130,000 Total Square Feet

30,000 Square Feet of Classroom Education

20,000 Square feet of Student Commons

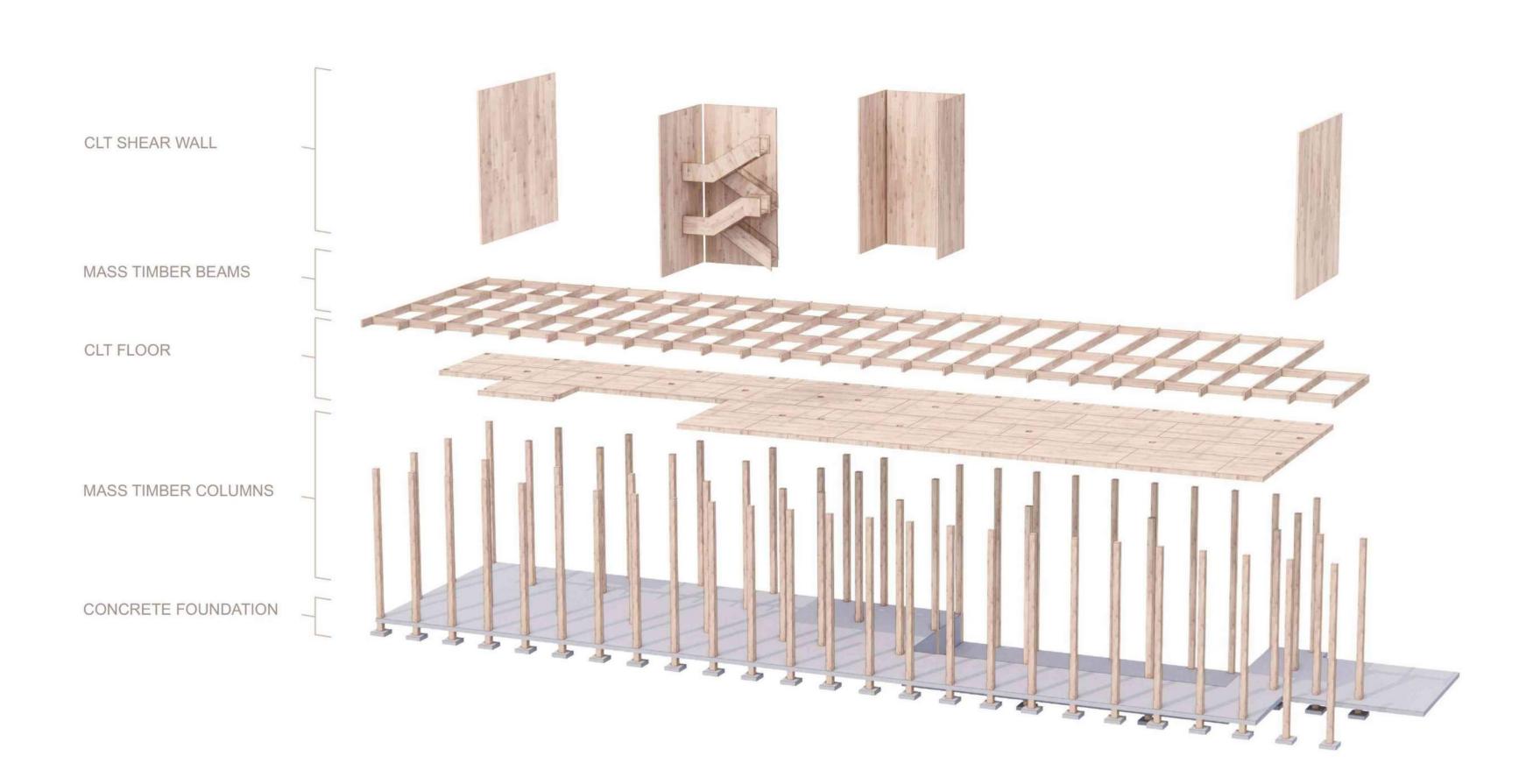








First building in Texas to use Mass Timber for all Vertical Structure

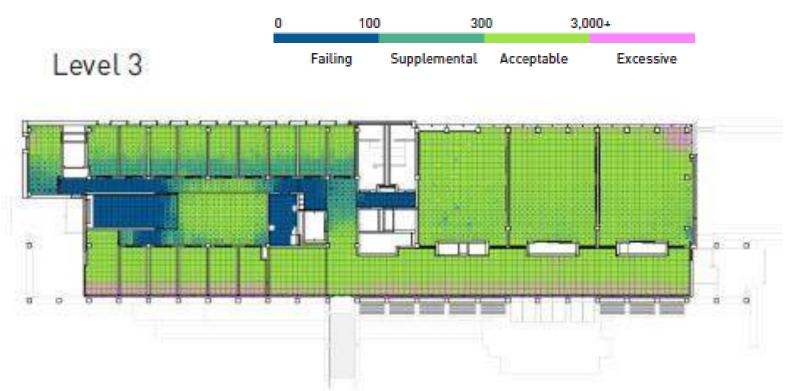




98%

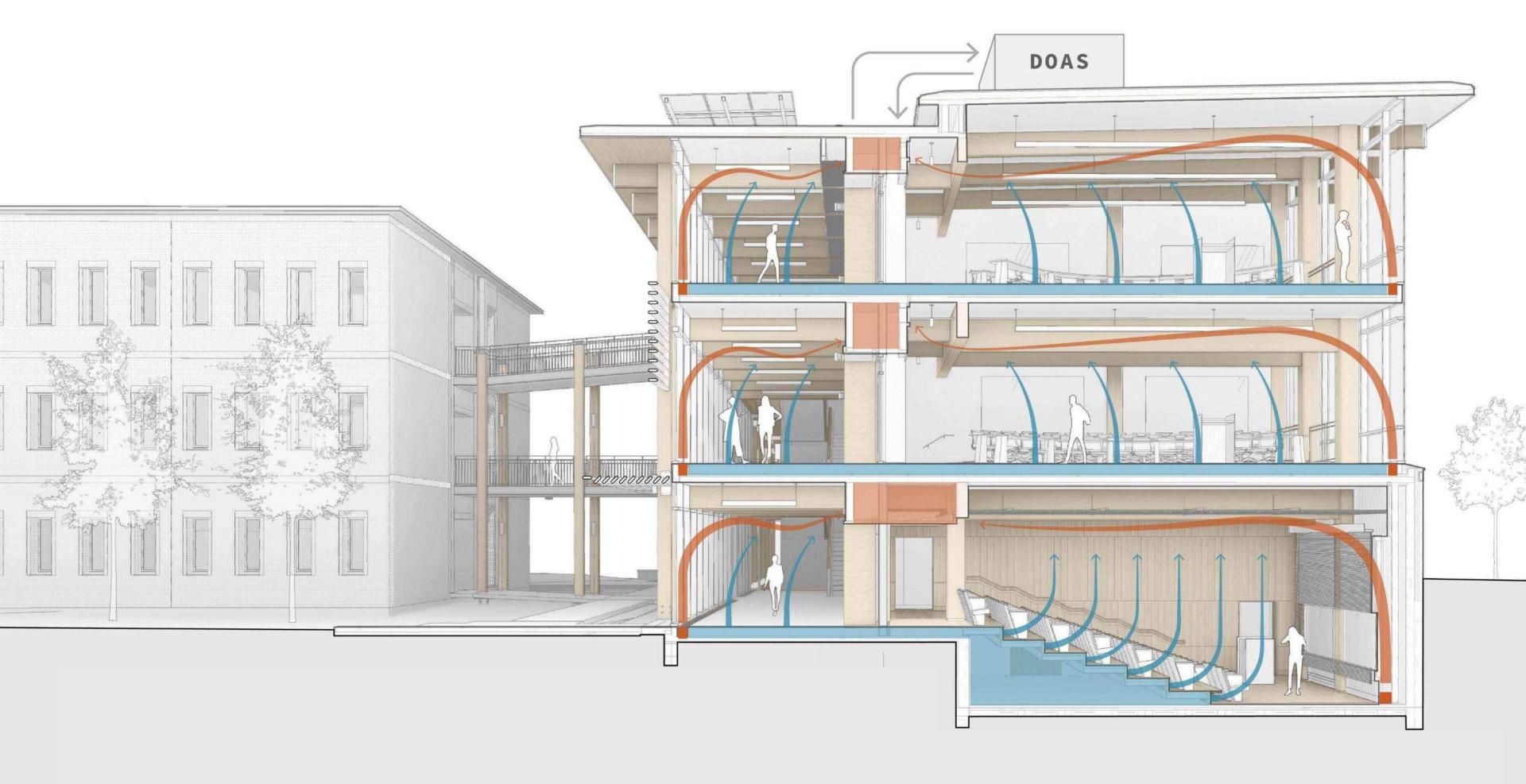
of regularly occupied space with access to daylight and view.

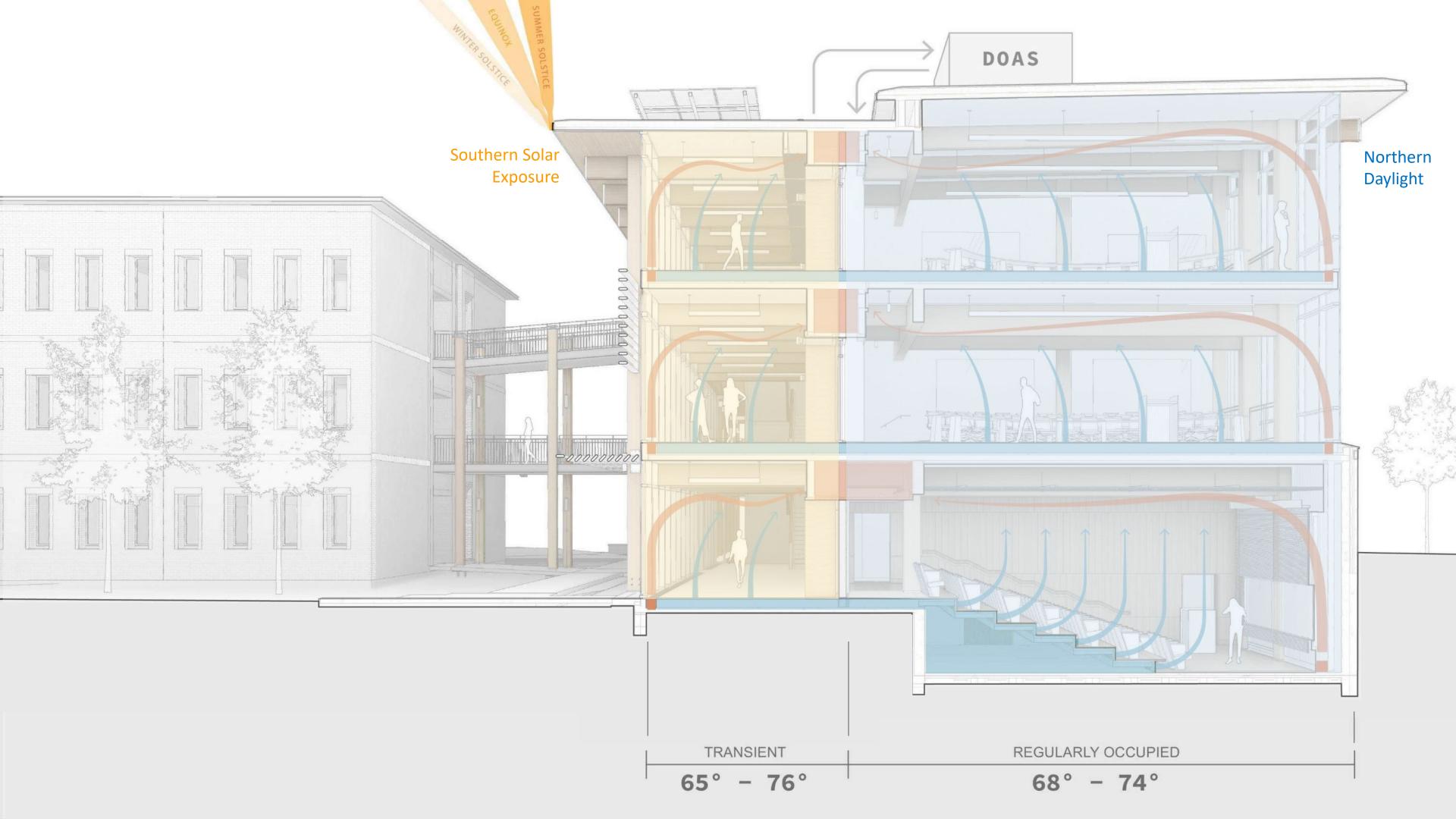


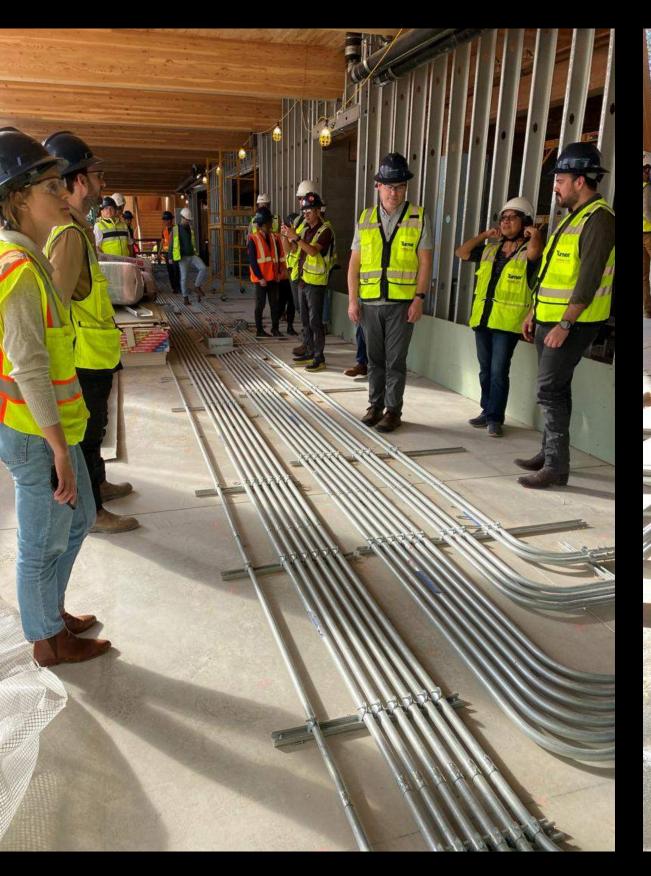








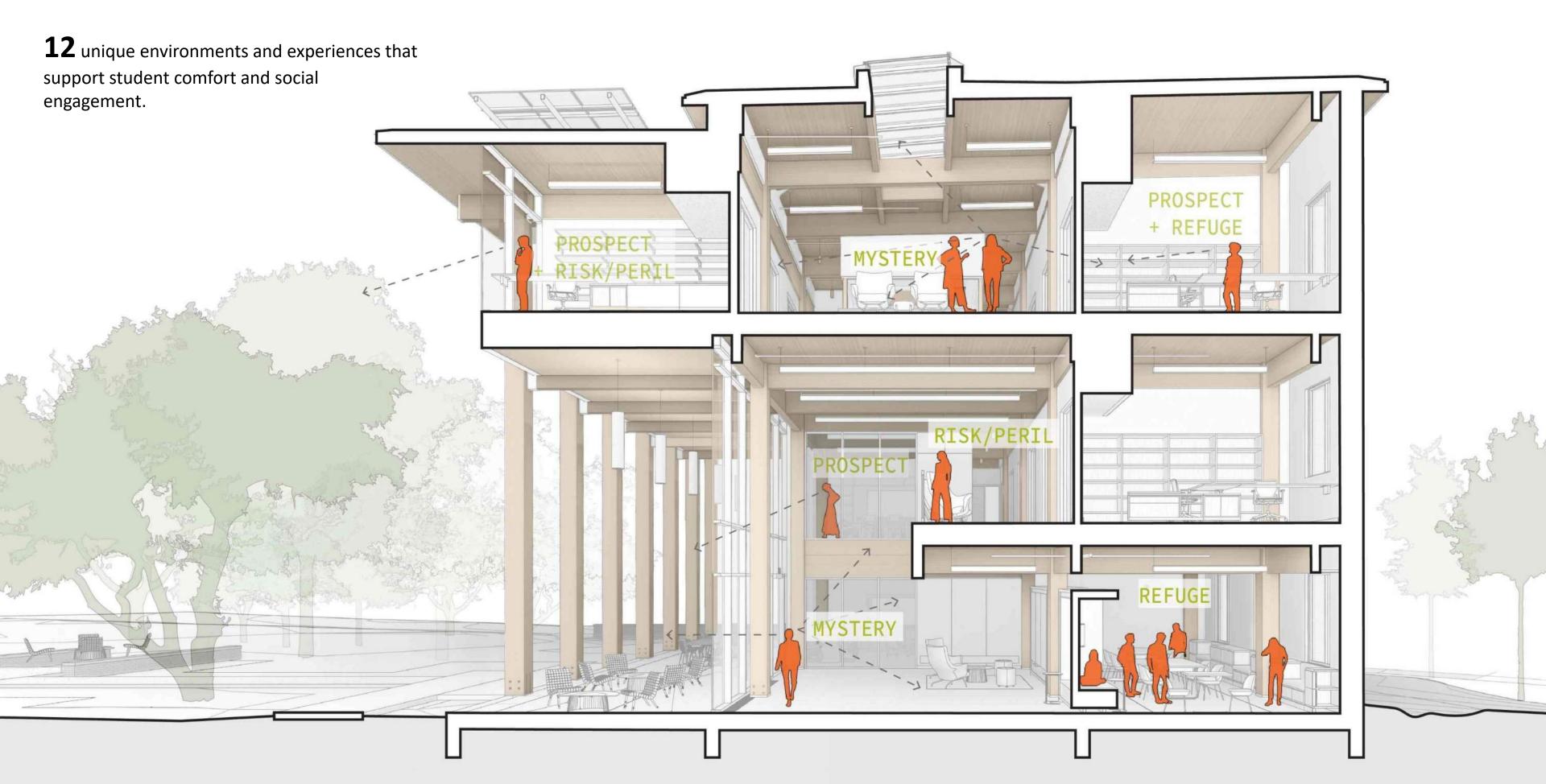






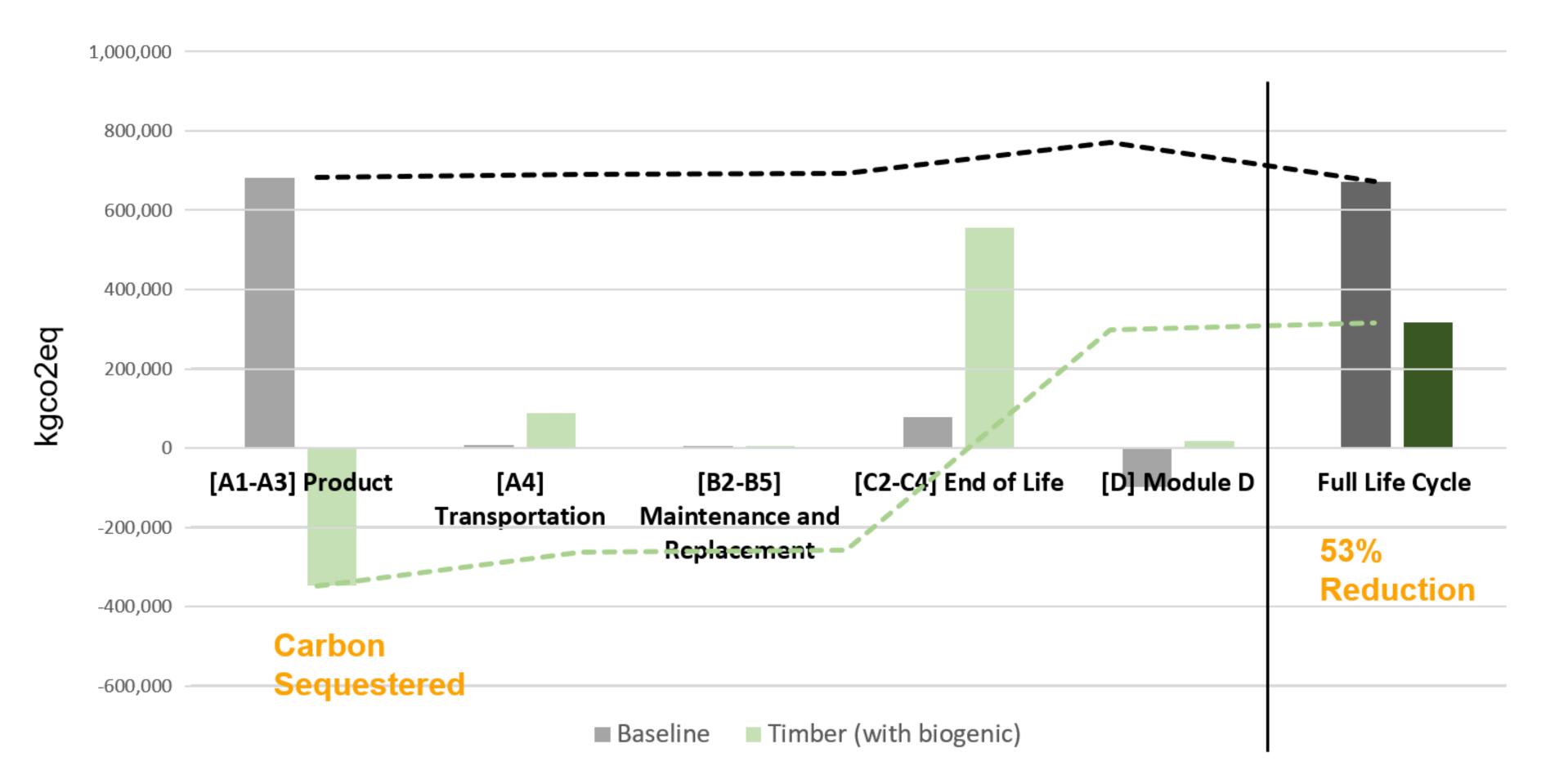




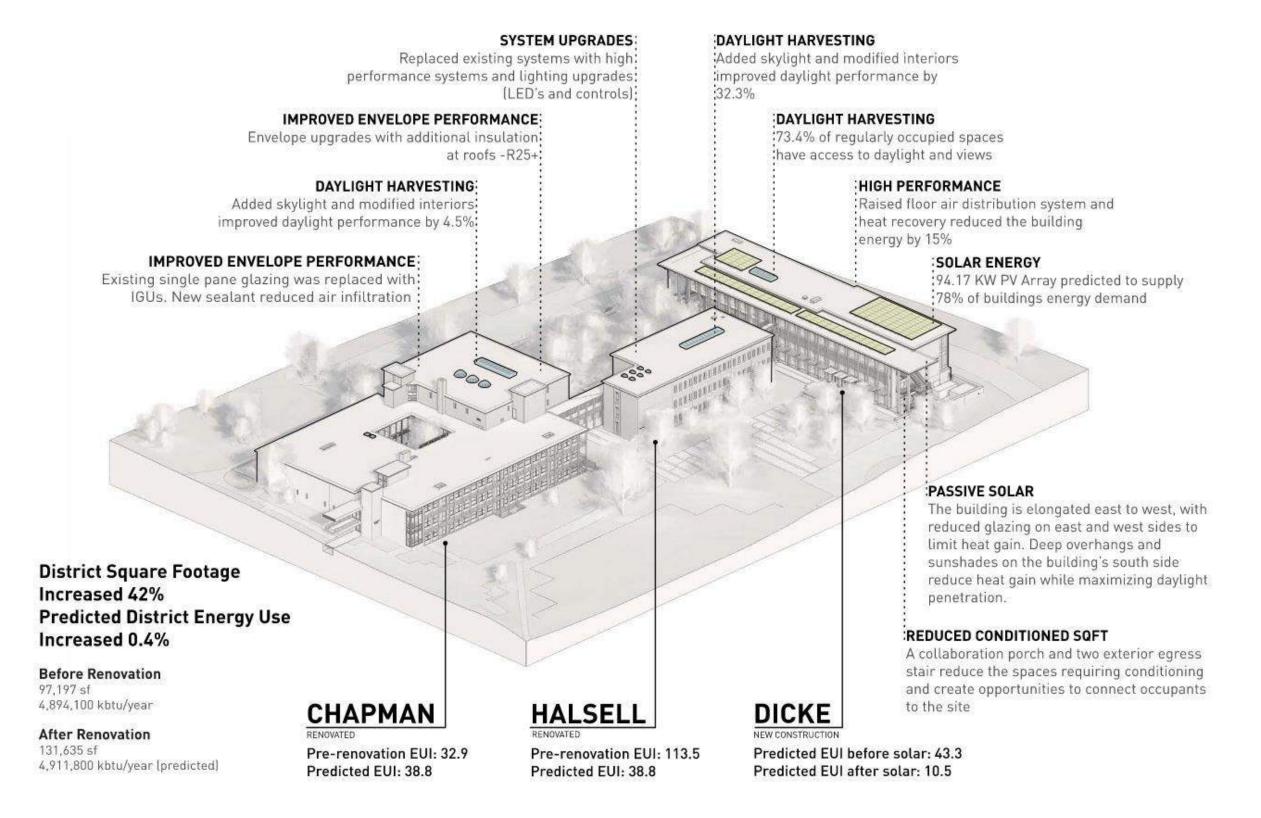




DICKE HALL - LIFE CYCLE STAGES OF CARBON



PASSIVE & ACTIVE STRATEGIES



10.5

EUI resulting from Passive and active system strategies

90%

Energy reduction below a typical building

78%

Energy supplied by 3,000 SF PV Array







DUESTIONS?

This concludes The American
Institute of Architects Continuing
Education Systems Course