2026

WOOD IN ARCHITECTURE
WOODWORKS DESIGN AWARDS

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

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

AIA Approved Continuing Education

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

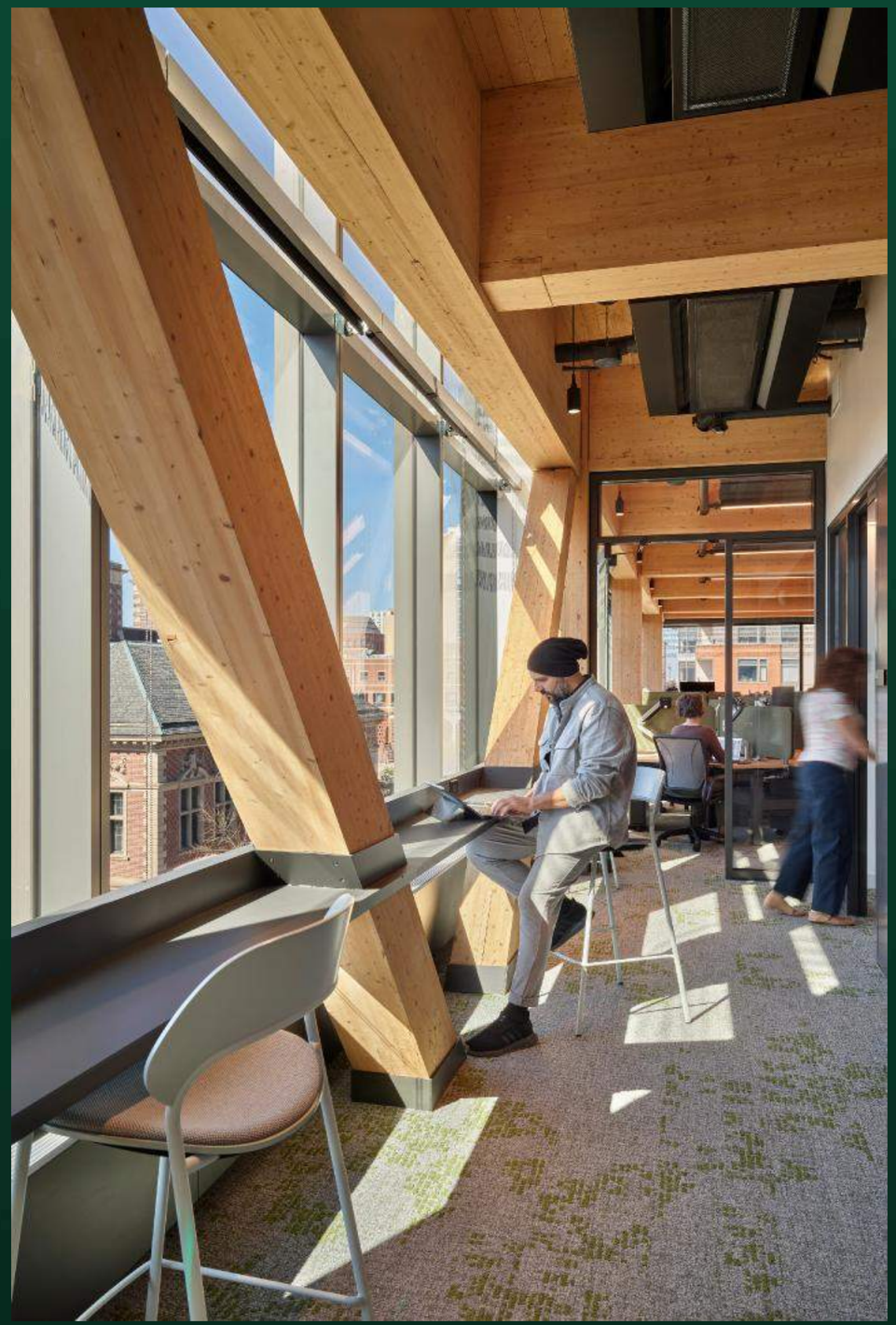
Design Excellence

Innovative Use of Wood

Wood
Sustainability and Resilience

Market Impact

Impact



2026 Jury

David J Odeh
SE, PE, F.SEI, F.ASCE
Senior Vice President, Structures, WSP

Jessie
AIA, LEED, AP
Principal, DLR Group

Michael LeBlanc
AIA
Principal, Utile Design

JoAnn Hindmarsh-Wilcox
AIA, LEED, AP
Partner, Mithun

- Amy Gutmann Hall Data Science & AI Building
- Cincinnati Public Radio
- Doris Duke Theatre at Jacob’s Pillow
- The Kreher Preserve & Nature Center Environmental
- Education Building
- Knight Building
- Mercer Middle School
- Orange County Sanitation District Headquarters
- Under Armour Global Headquarters

Today's Speakers

Amanda Hoehn
Bassetti Architects
ahoehn@bassettiarch.com

Johannes Kolshorn
Emersion DESIGN
johannes.kolshorn@emersiondesign.com

Bob Perry
Gensler
Bob_Perry@gensler.com

Mercer Middle School

ARCHITECT
Bassetti Architects, A Design Studio
of HMC Architects

STRUCTURAL ENGINEER
Coughlin Porter Lundeen

GENERAL CONTRACTOR
Cornerstone General Contractors

OWNER
Seattle Public Schools

LOCATION
Seattle, Washington

bassetti DESIGN FOR GOOD
architects
A Design Studio of HMC Architects

320K+

SF of Mass Timber

150+

K-12 Projects

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

- To talk about Mercer MS we first need to discuss Van Asselt
- Bassetti was selected as the architect for both Van Asselt School and Mercer Int’l Middle School.
- Van Asselt was an Interim Site for the District
- Occupied Site
- Limited lay Down Area
- Good test project for mass timber.

VAN ASSELT SCHOOL

COMPLETION
September 2023

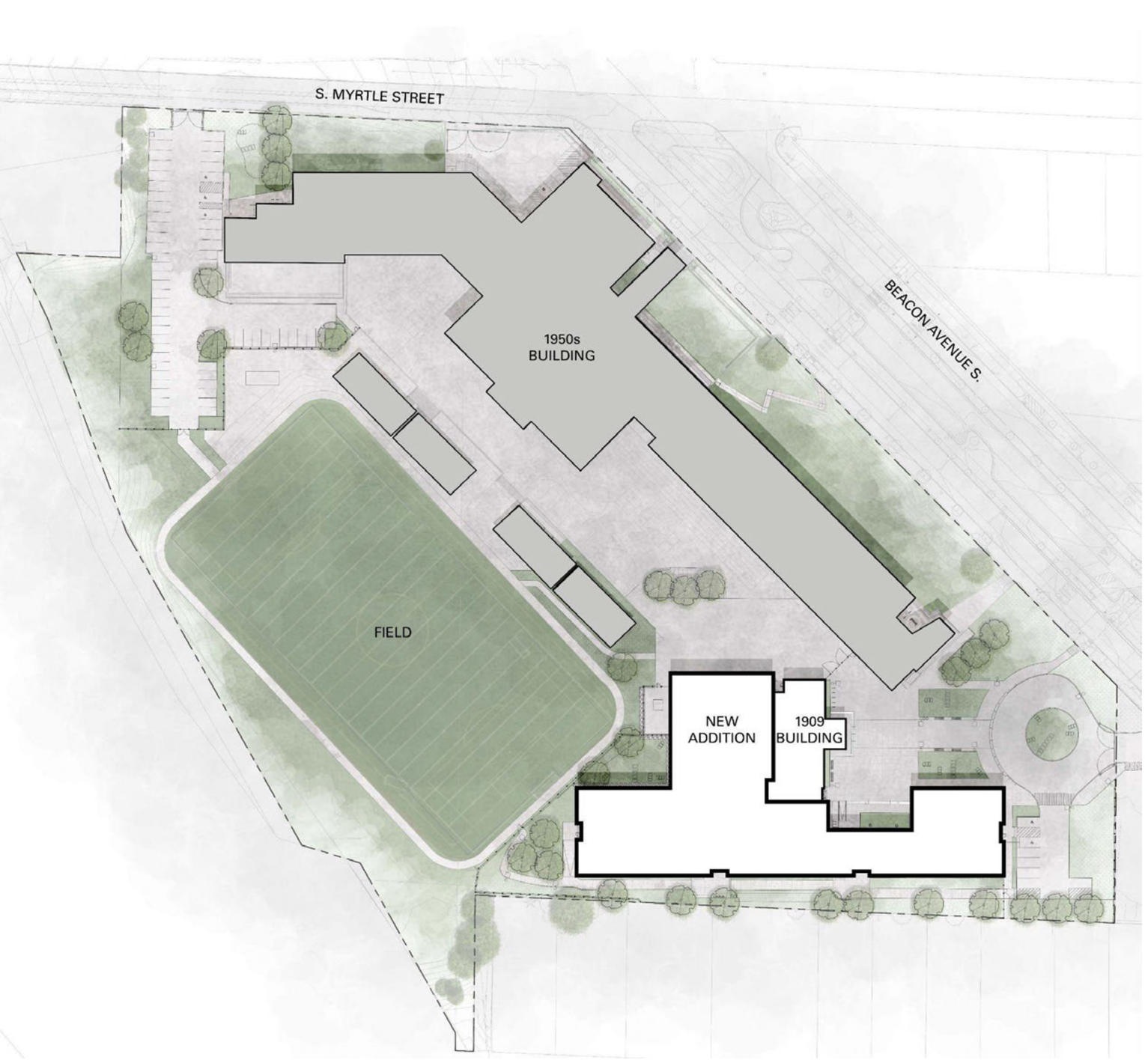
OWNER
Seattle Public Schools

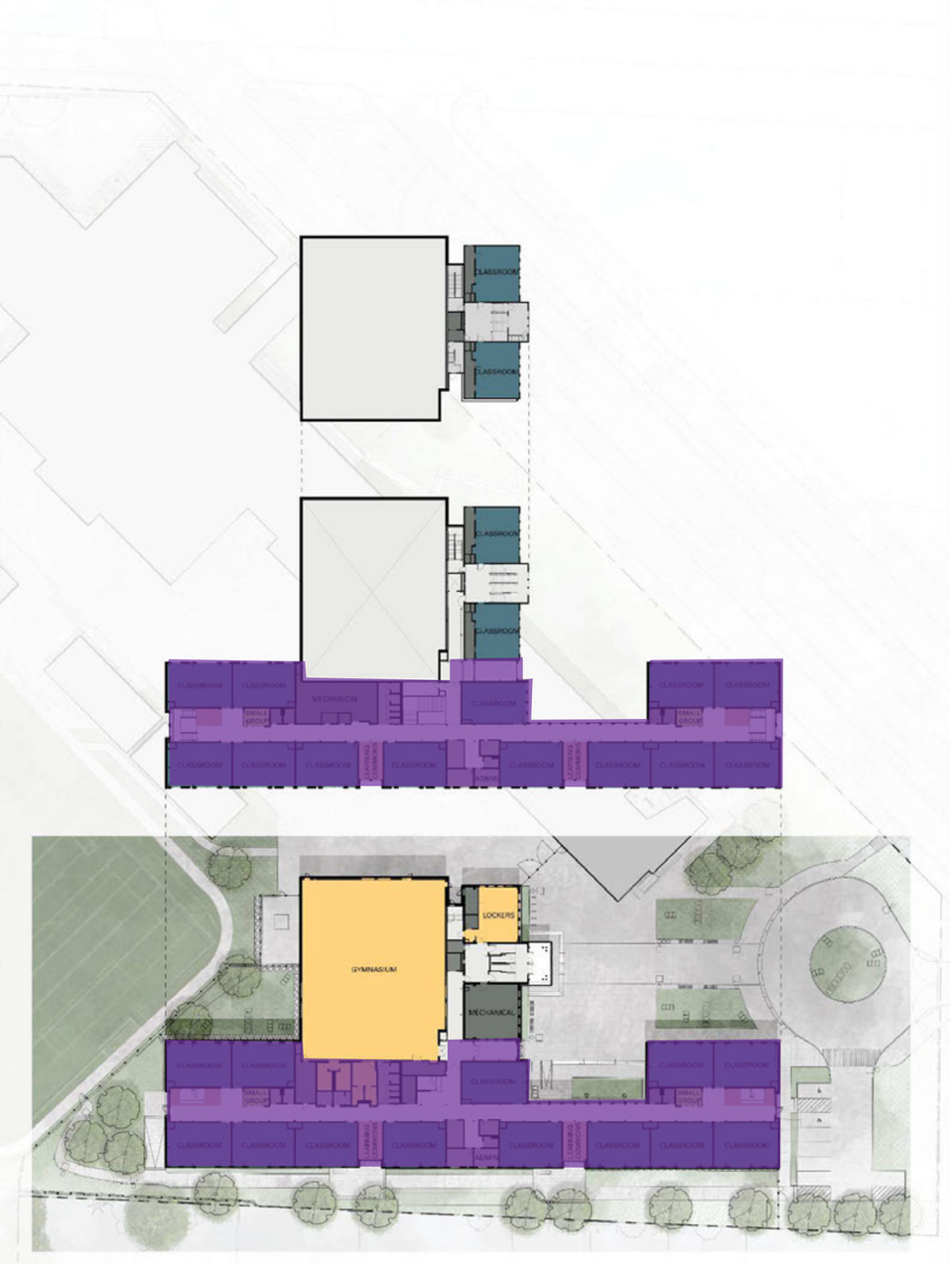
LOCATION
Seattle, WA

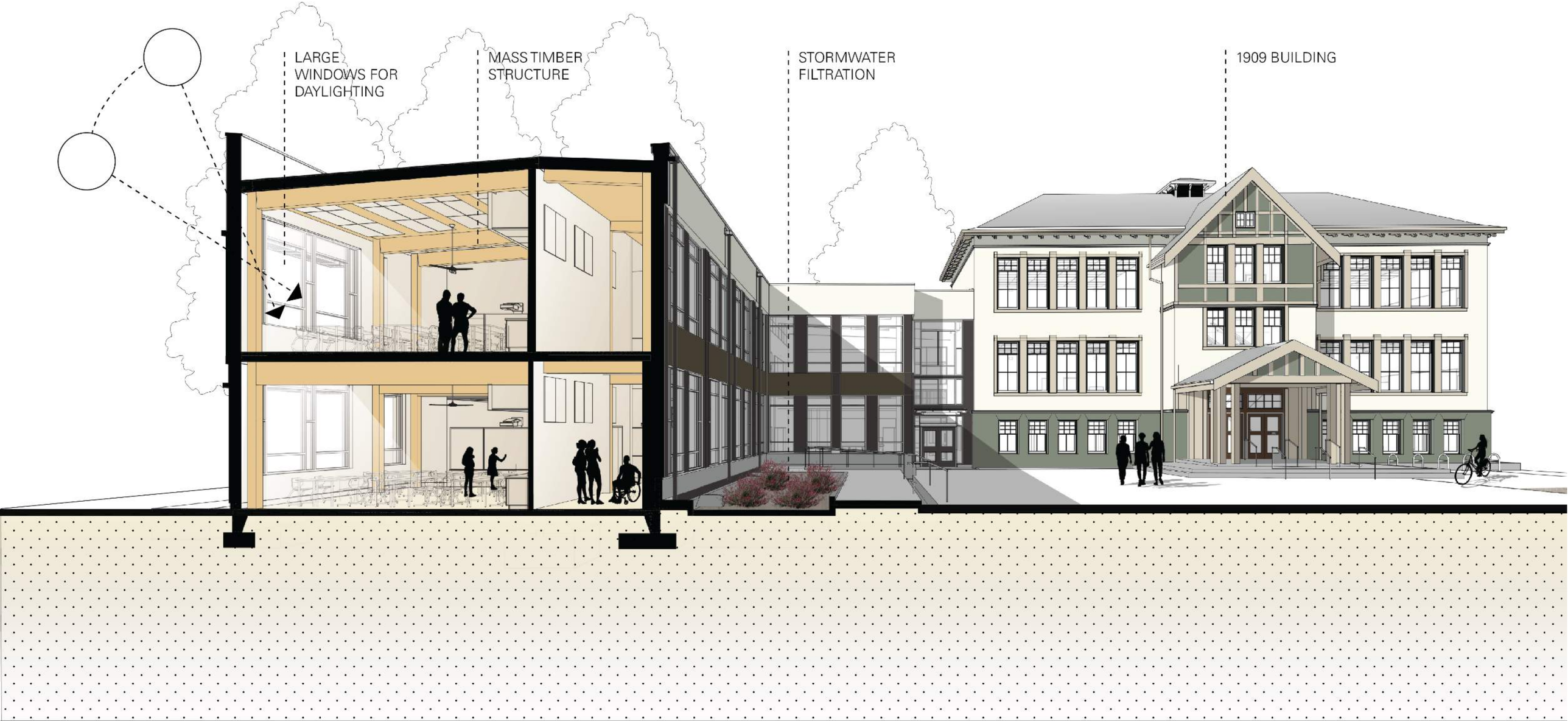
BUILDING SIZE
43,200 sf Mass Timber
8,500 sf Steel
10,500 sf Historic Renovation

CONTRACTOR
Cornerstone General Contractor

MASS TIMBER MANUFACTURER
Kalesnikoff


S. MYRTLE STREET
BEACON AVENUE S.
1950s
BUILDING
FIELD
NEW
ADDITION
1909
BUILDING


CLASSROOM
CLASSROOM
CLASSROOM
CLASSROOM
MECHANICAL
GYMNASIUM
LOCKERS
MECHANICAL


LARGE
WINDOWS FOR
DAYLIGHTING
MASS TIMBER
STRUCTURE
STORMWATER
FILTRATION
1909 BUILDING

What we learned from the Van Asselt School

+ Structural Efficiency – Rigorous repetition
+ Moisture Management – Early conversations and factory applied membranes
+ Systems Integration Coordination – MEP coordination and design approach
+ Acoustics – Balancing wood and reverberation

MERCER MIDDLE SCHOOL

COMPLETION
August 2025

OWNER
Seattle Public Schools

LOCATION
Seattle, WA

BUILDING SIZE
175,000 sf Total
121,500 sf Mass Timber

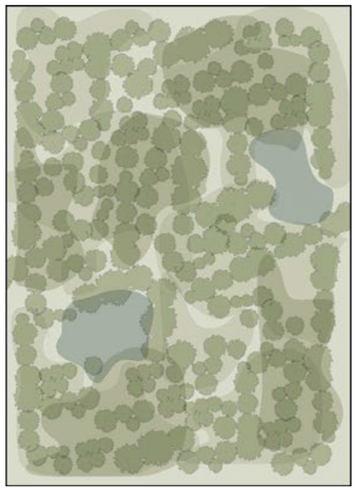
CONTRACTOR
Cornersone General Contractor

MASS TIMBER MANUFACTURER
Kalesnikoff

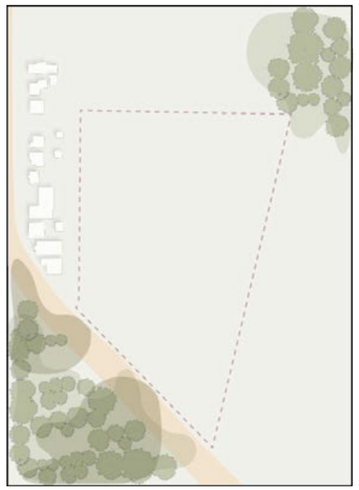
Project Goals

+ Regeneration of the site and topography
+ Creating meaningful connections to natural elements
+ A healthy building for students to learn
+ A quieter construction site in an urban environment
+ Create a beacon for the Beacon Hill Community

Undeveloped Land



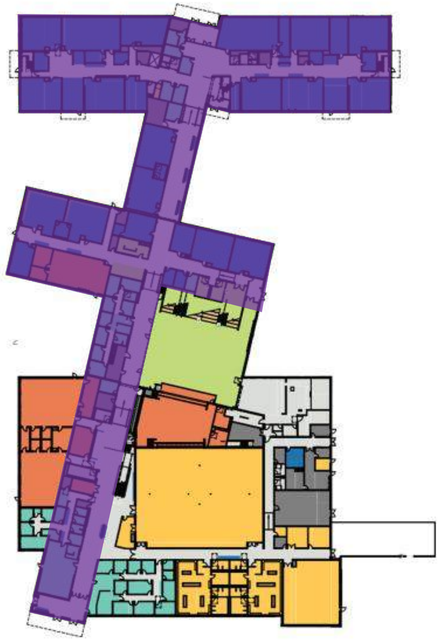
1901 Regrade



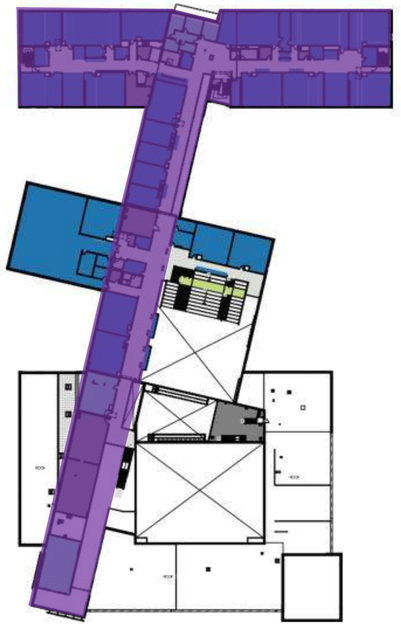
1958 Mercer Constructed

2025 New Mercer MS

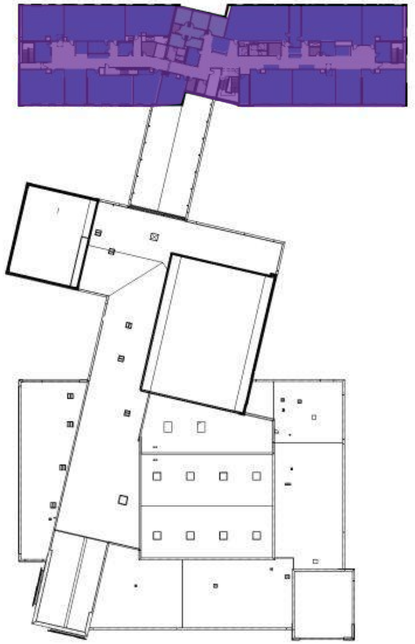
FIRST FLOOR



SECOND FLOOR



THIRD FLOOR

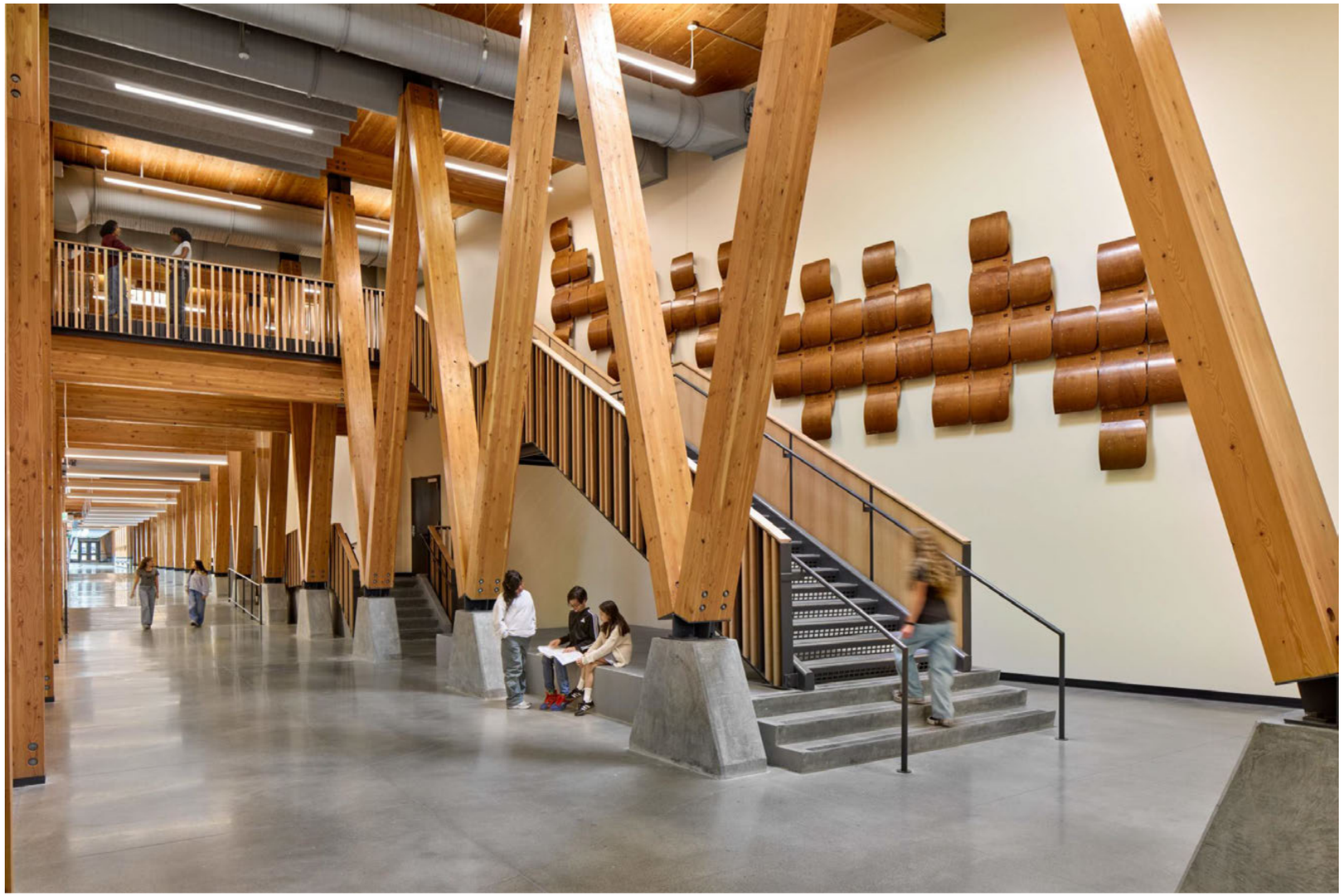


- Classroom / Classroom Support
- Visual / Performing Arts
- Commons
- Physical Ed
- Admin / Staff
- Back of House

N

Celebrating the Wood Structure

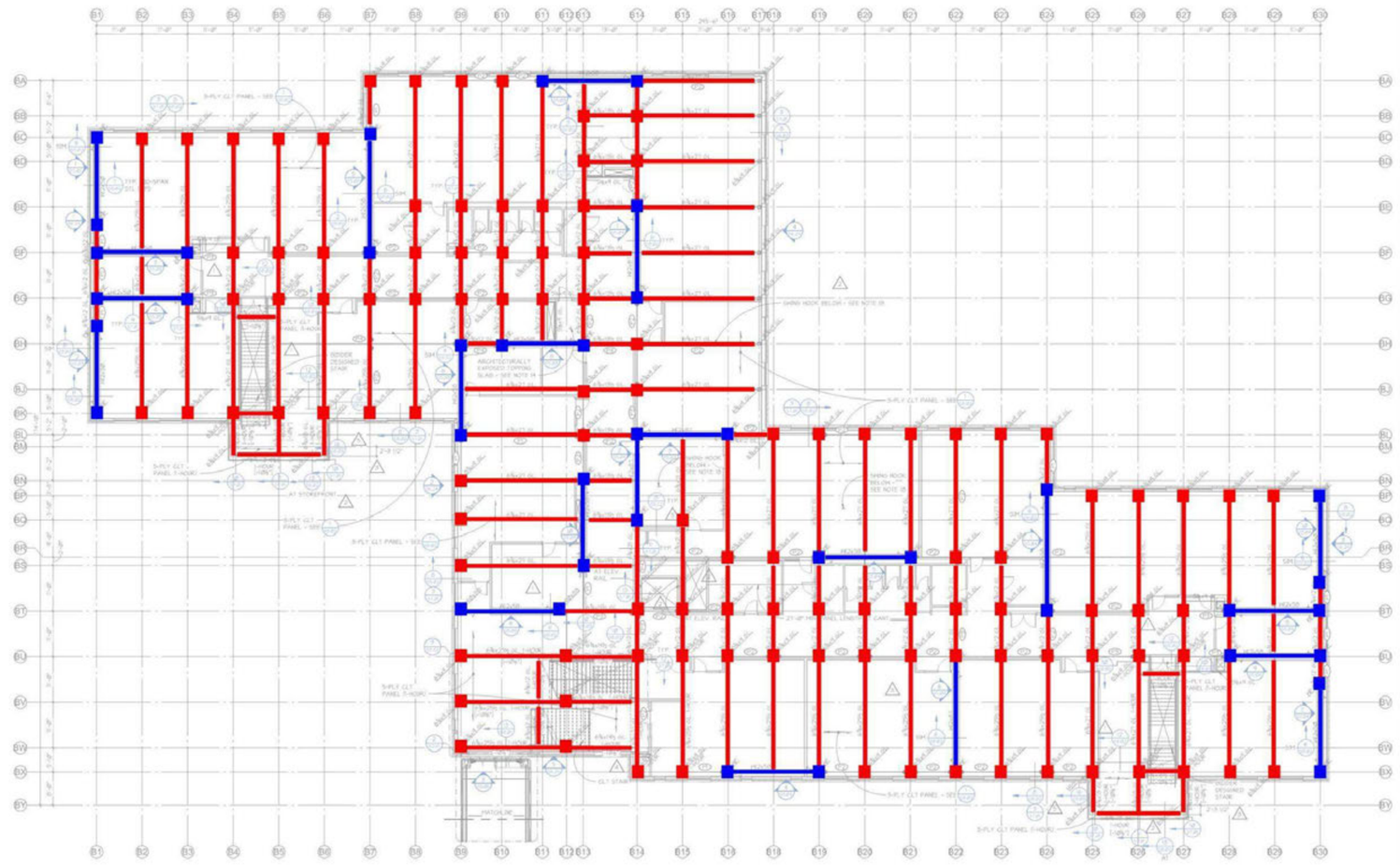
- Celebrate the structure
- Highlight the structural rigor
- Create porosity between social spaces and the corridor
- Showcase vertical connections
- Bringing wood down to a human scale

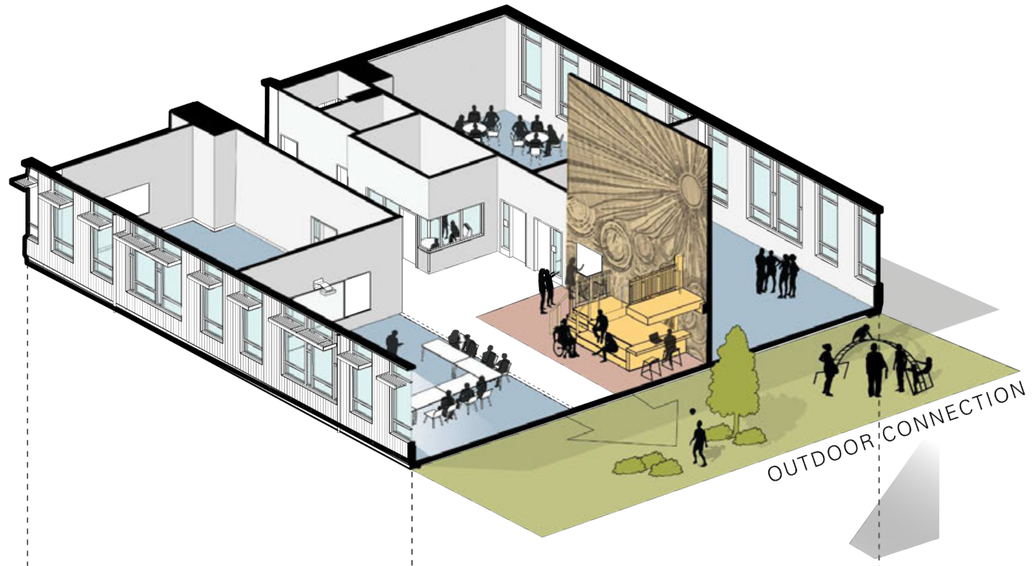


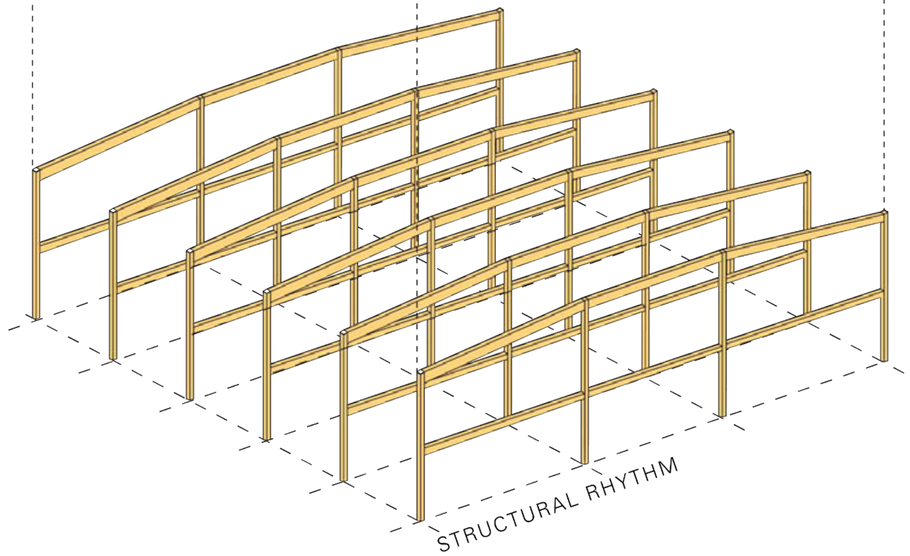
What we learned – Diving Deeper

+ Structural Efficiency – Rigorous Repetition
+ Moisture Management – Early conversations and Factory Applied Membranes
+ Systems Integration Coordination – Where Does the MEP Go
+ Acoustics – Balancing Wood and Reverberation

STRUCTURE /







STRUCTURE /

Mercer Middle School, Seattle, WA

MOISTURE /

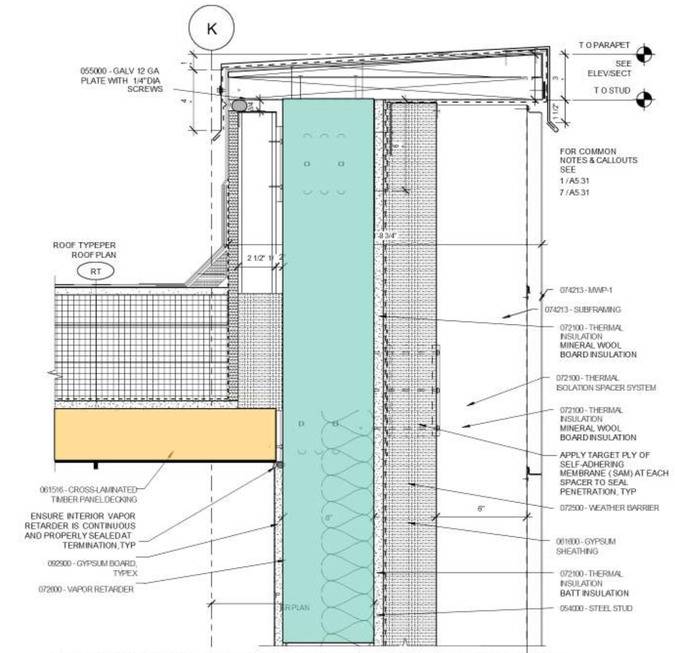
Van Asselt School, Seattle, WA

MOISTURE /

Mercer Middle School, Seattle, WA

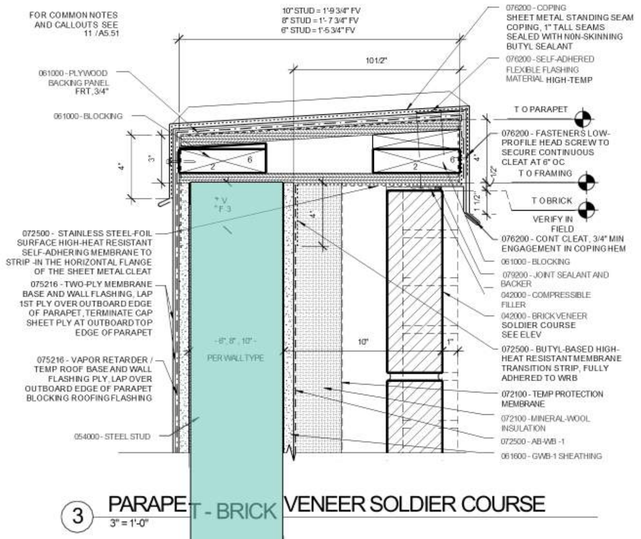
MOISTURE /

VAN ASSELT SCHOOL, SEATTLE, WA

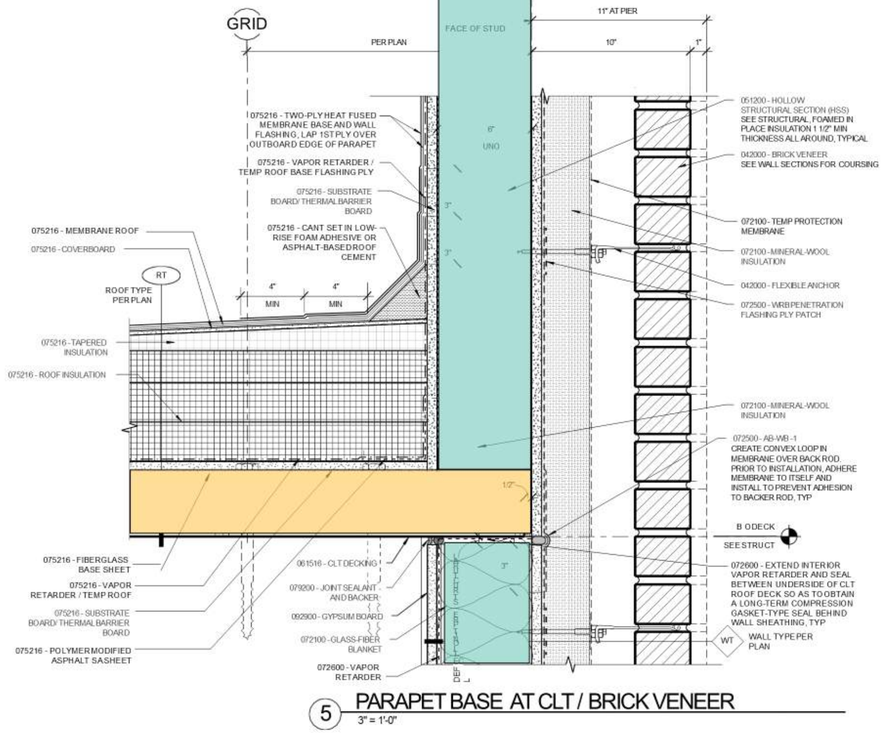


1 COURTYARD SOUTH WALL PARAPET AT CLT DECK ROOF
3" = 1'-0"

MERCER MIDDLE SCHOOL, SEATTLE, WA

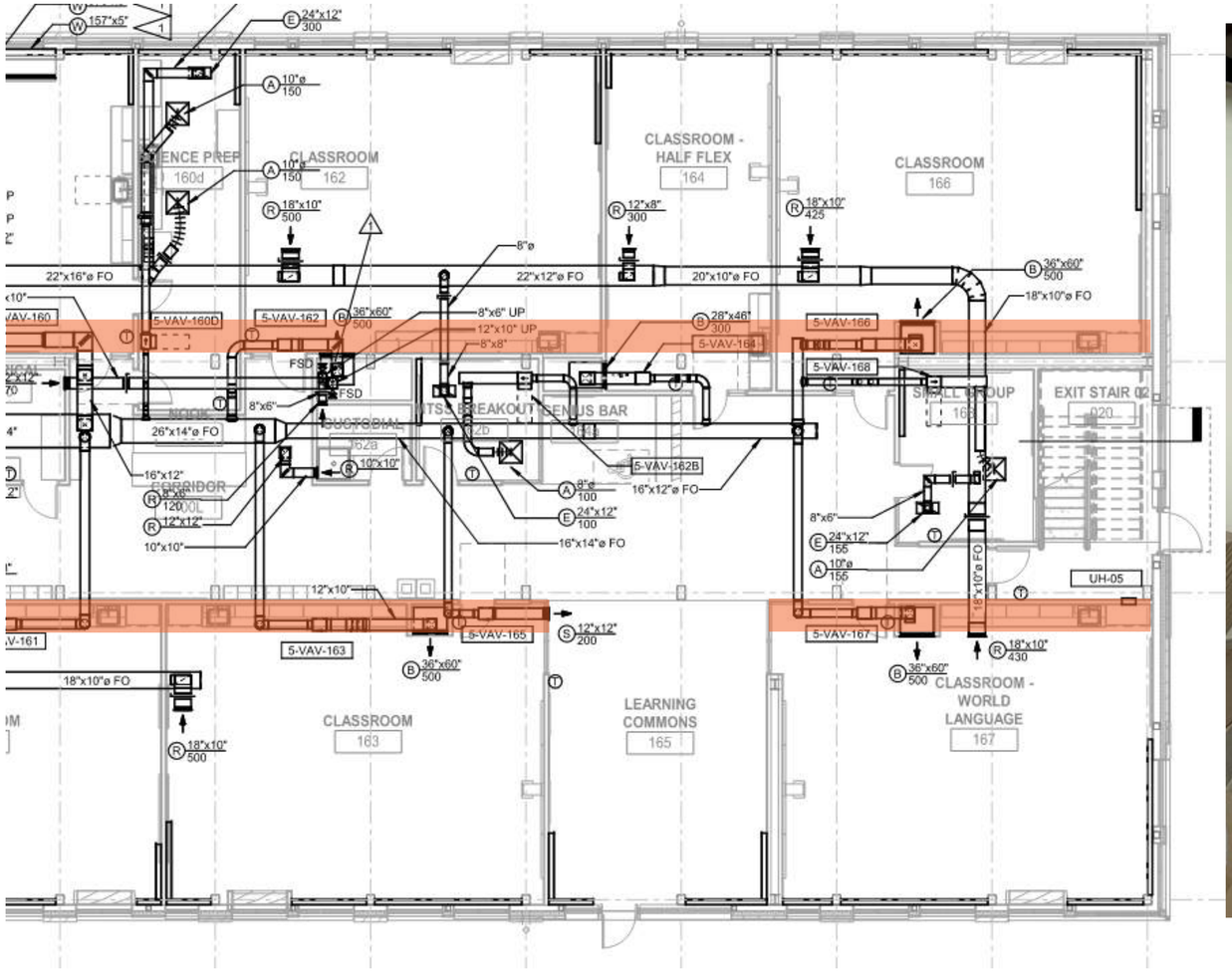


3 PARAPET - BRICK VENEER SOLDIER COURSE
3" = 1'-0"



5 PARAPET BASE AT CLT / BRICK VENEER
3" = 1'-0"

MEP INTEGRATION /

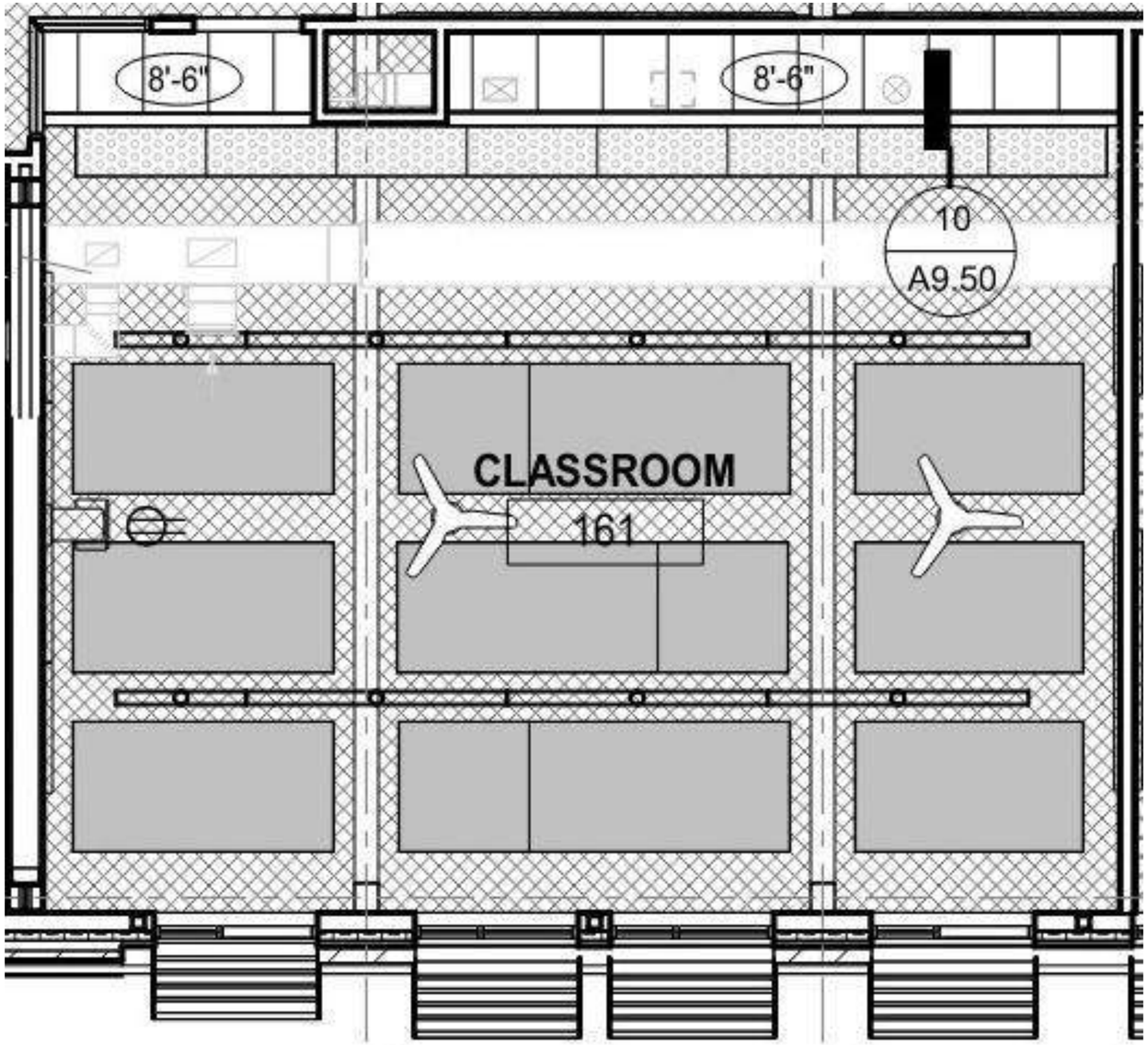


Mercer Middle School, Seattle, WA

MEP INTEGRATION /

Mercer Middle School, Seattle, WA

CLASSROOM ACOUSTICS /



Mercer Middle School, Seattle, WA

CLASSROOM ACOUSTICS /

Mercer Middle School, Seattle, WA

From Vision…

To Reality…

bassetti architects DESIGN FOR GOOD

A Design Studio of HMC Architects

THANK YOU.

Cincinnati Public Radio

ARCHITECT
Emersion Design

STRUCTURAL ENGINEER
Schaefer

GENERAL CONTRACTOR
Skanska

OWNER
Cincinnati Public Radio

LOCATION
Cincinnati, Ohio

CINCINNATI PUBLIC RADIO

emersion DESIGN

schaefer

CMTA

WSDG

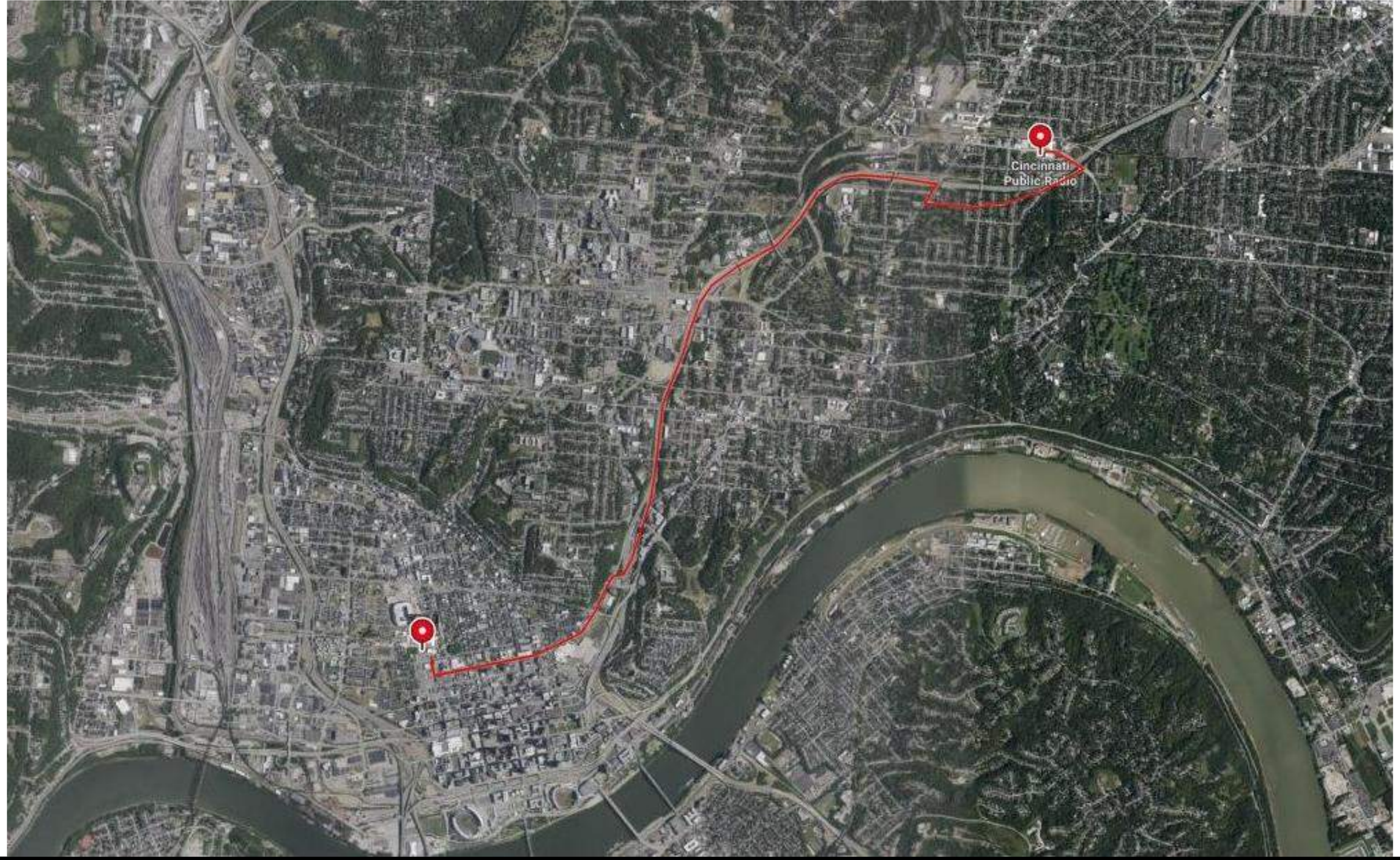
SKANSKA

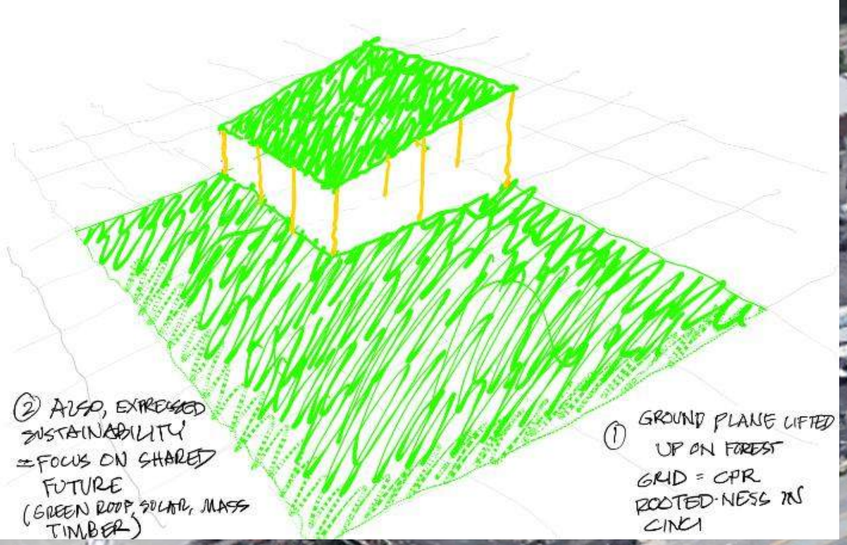
Disclaimer: This presentation was developed by a third party and is not funded by WoodWorks or the Softwood Lumber Board.

Home at Crosley Station

criteria for a new home

- site must have clear line-of-sight to transmission tower
- broadcast and recording studios must be acoustically isolated
- welcoming to the public and open to hosting public events while maintaining a safe/secure work environment
- iconic, environmentally friendly design, supporting employee wellness
- warm, welcoming finishes/materials


Cincinnati
Public Radio

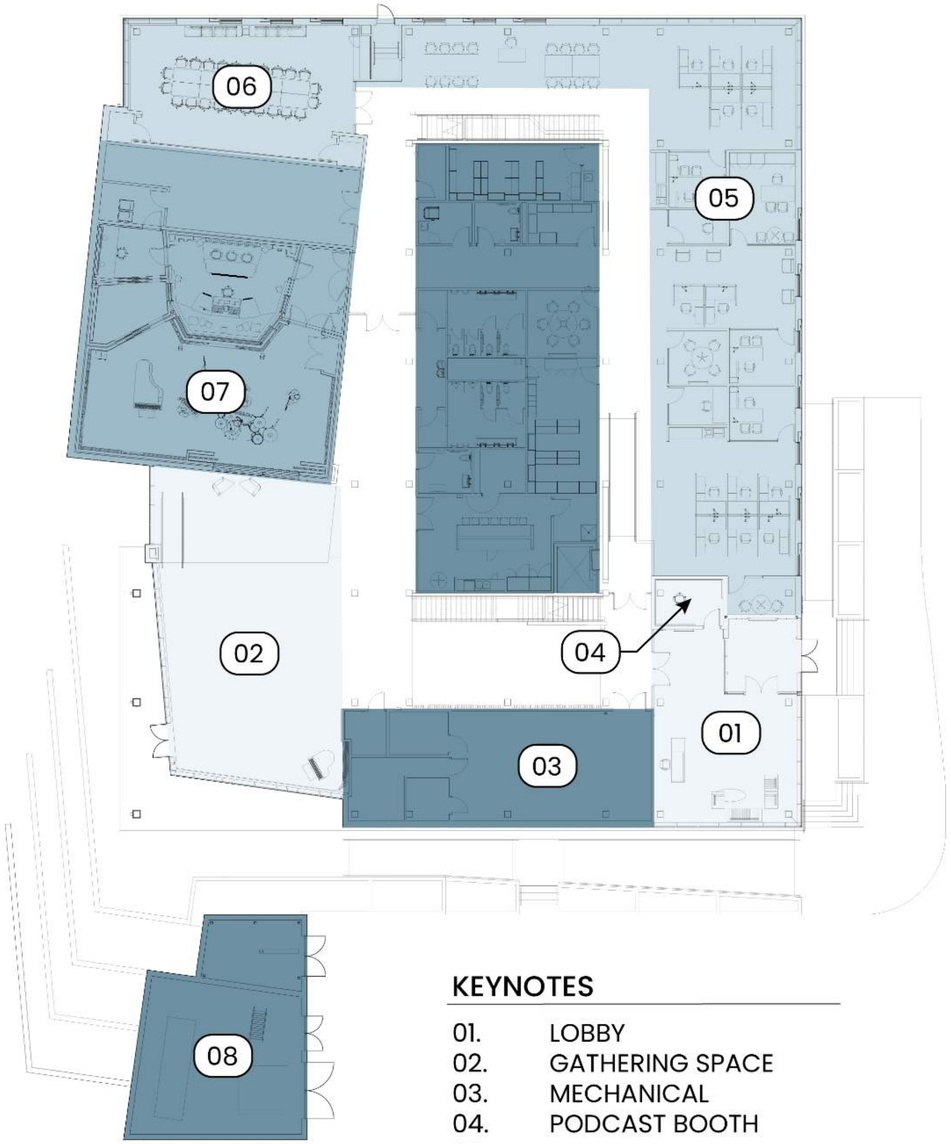


Site Rendering

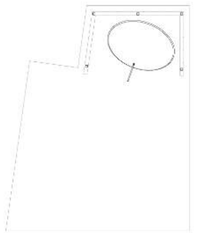
Exterior Rendering – South East

Exterior Rendering - Southwest

LEVEL 1



LEVEL 2



KEYNOTES

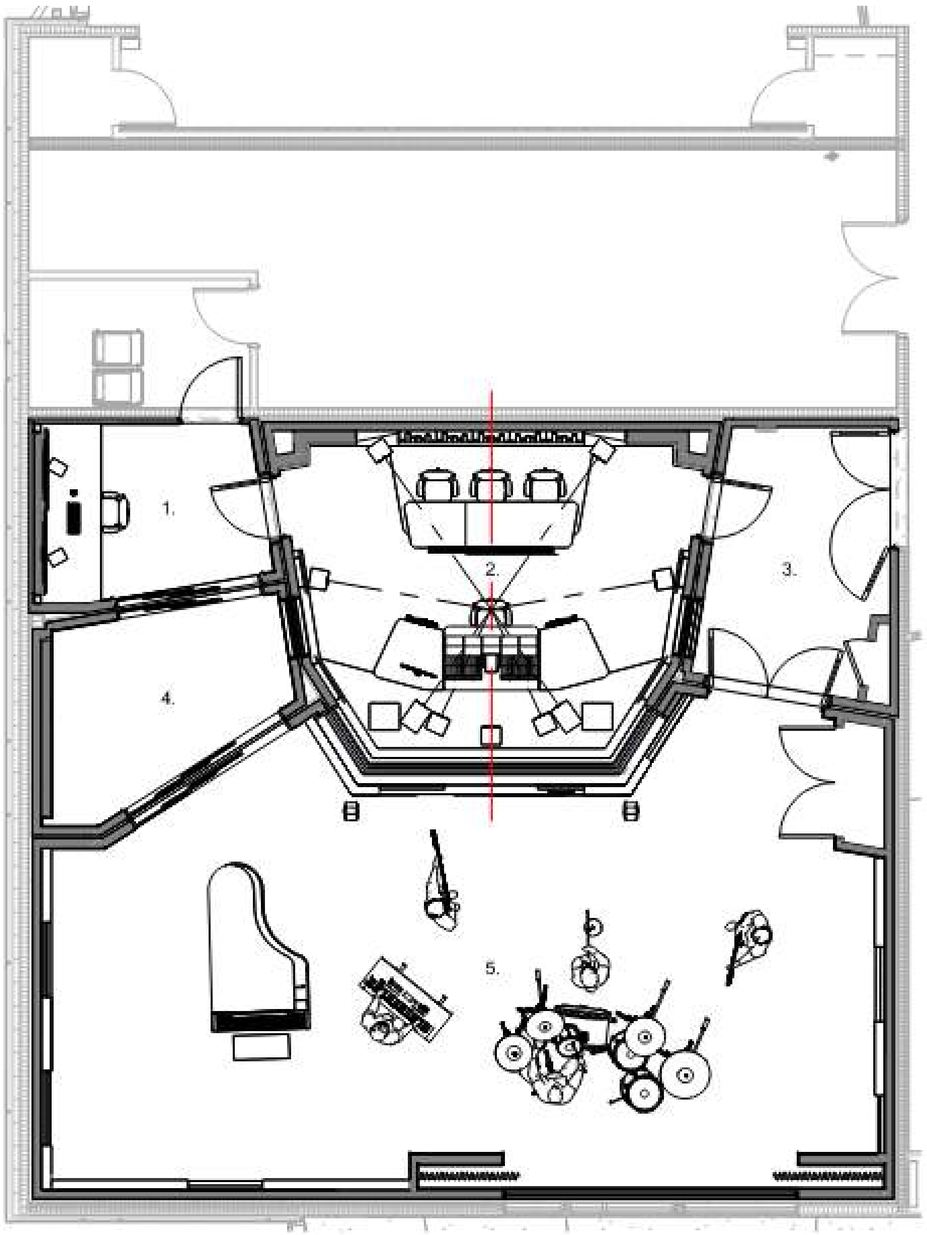
01. LOBBY
02. GATHERING SPACE
03. MECHANICAL
04. PODCAST BOOTH
05. OFFICES
06. BOARDROOM
07. PERFORMANCE STUDIO
08. GENERATOR & TRASH
09. BALCONY

UTILITY / ENCLOSED

STUDIO SPACE

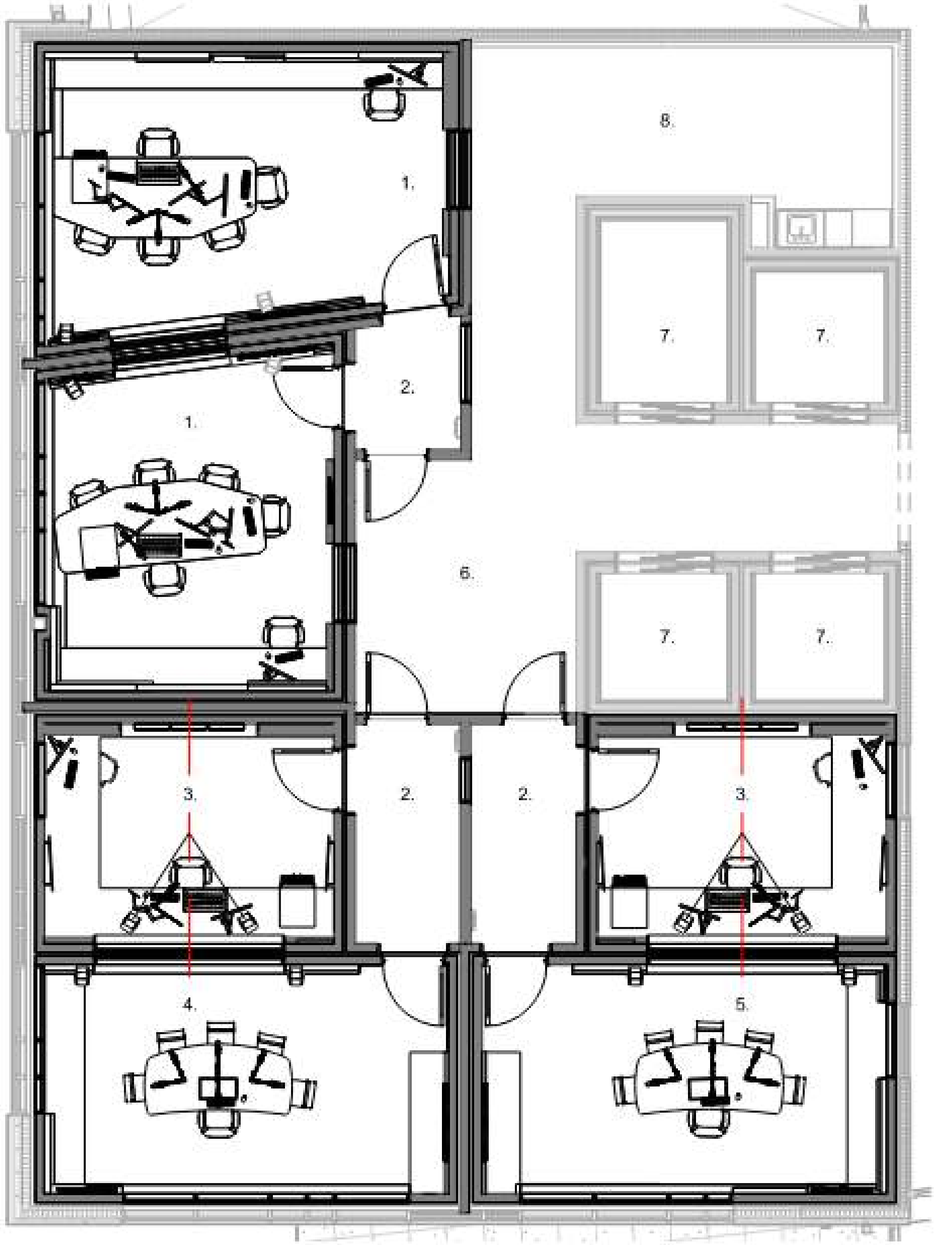
BUSINESS

PUBLIC SPACE



Studio A

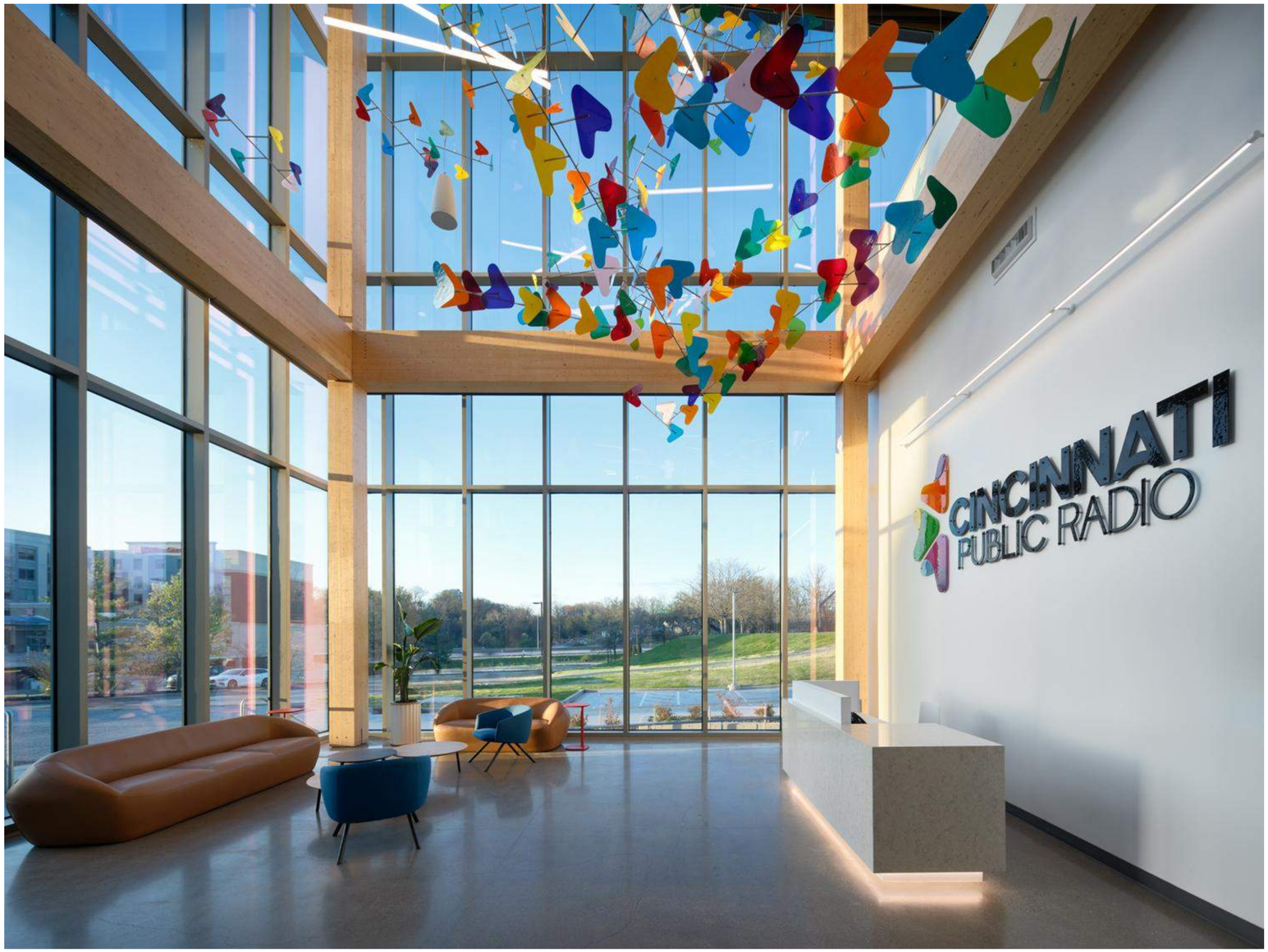
1. VCR
2. Control Room A
3. Sound Lock
4. Isolation Booth
5. Live Room A



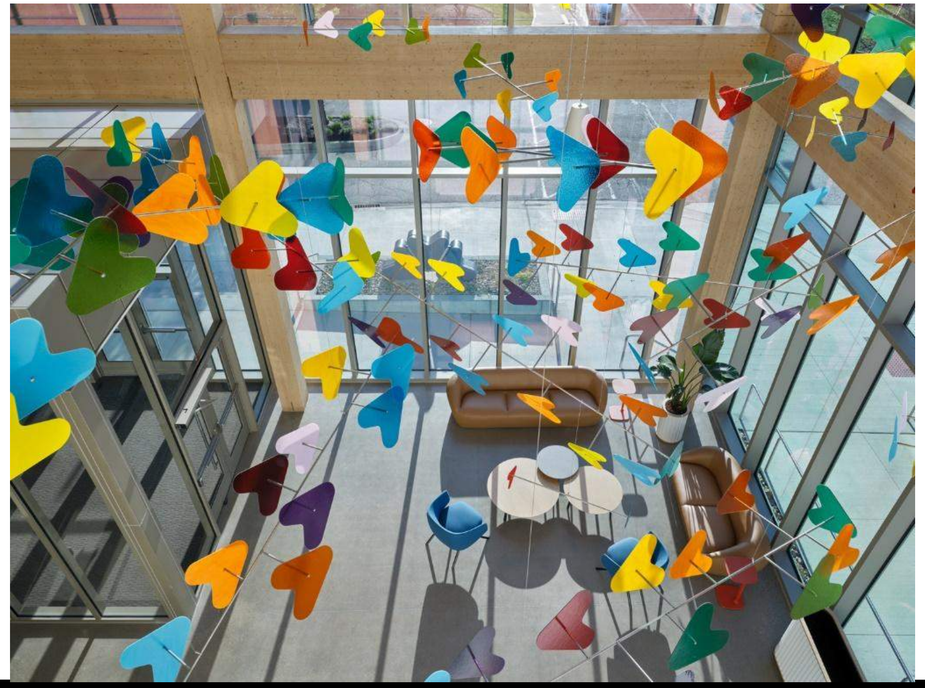
On-Air & Interview Studios

1. On-Air Studio
2. Sound Lock
3. Interview Control Room
4. Art & Culture Studio
5. News & Information Studio
6. Suite Lobby
7. Edit Pod
8. Green Room

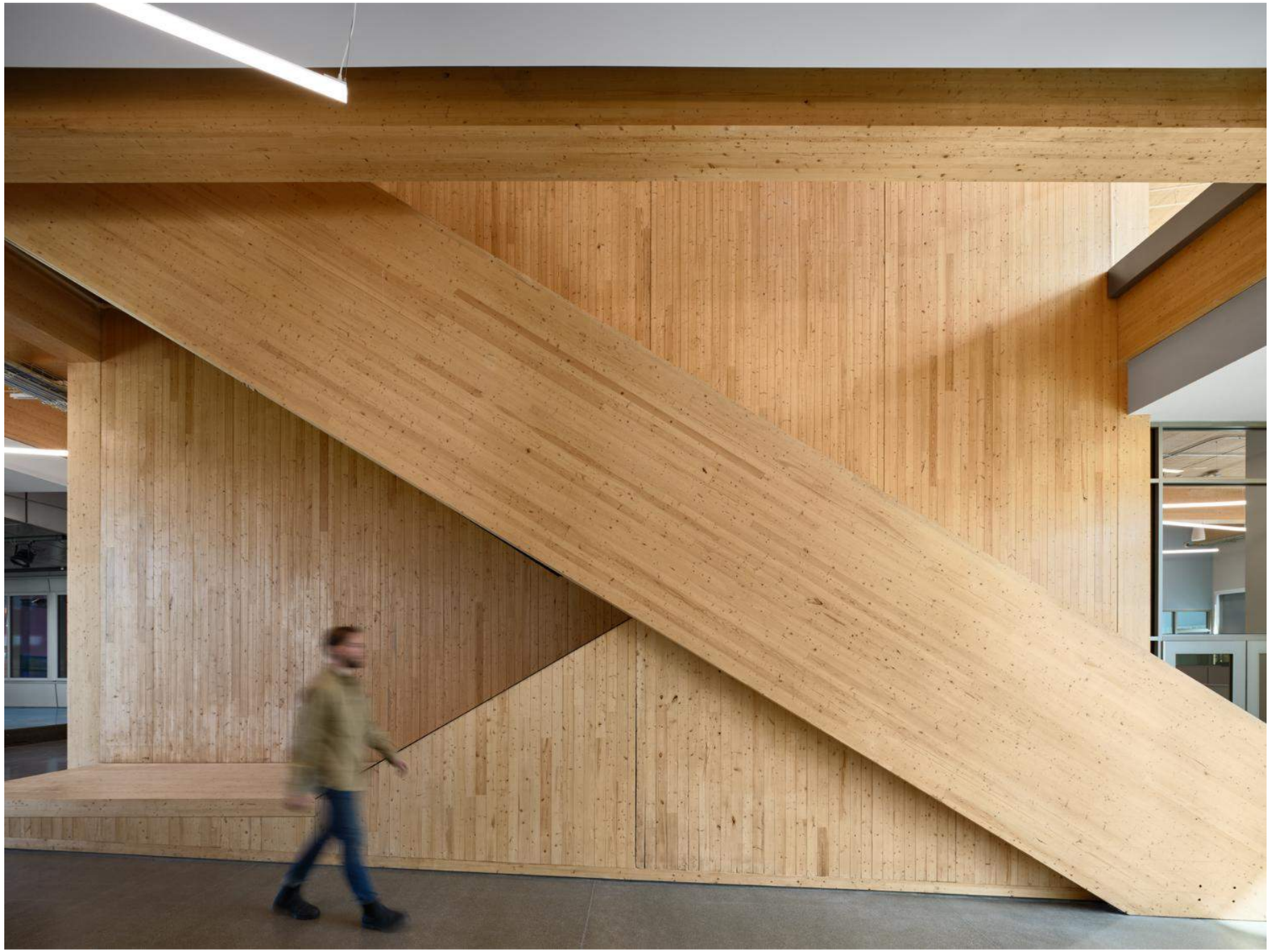
New location – 2117 Dana Ave

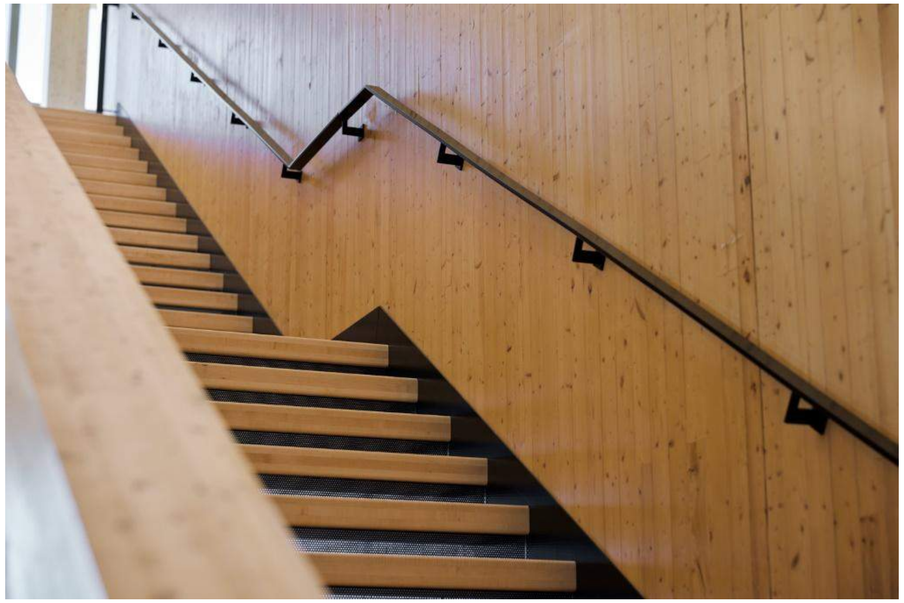

CINCINNATI
PUBLIC RADIO

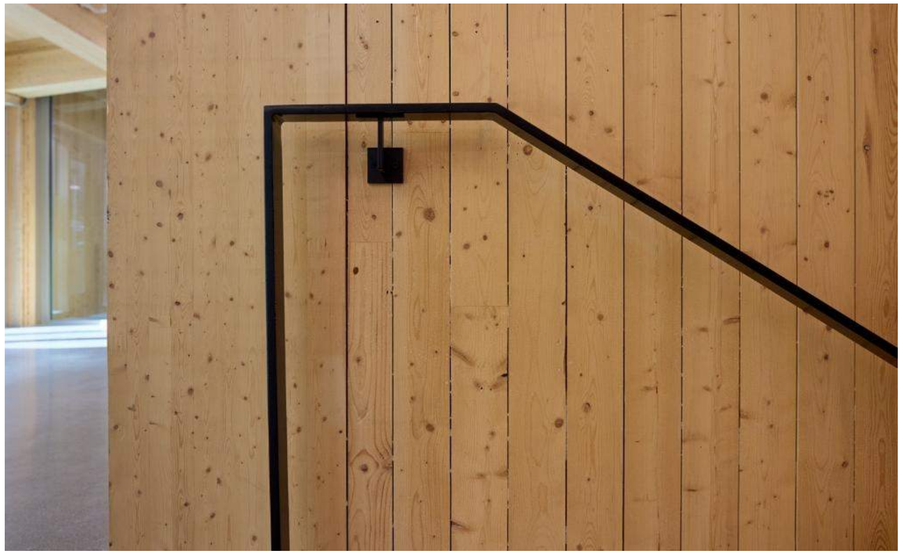

"Music gives
a soul to the
universe,
wings to
the mind,
flight to the
imagination,
and life to
everything."
CINCINNATI
PUBLIC RADIO



Lobby

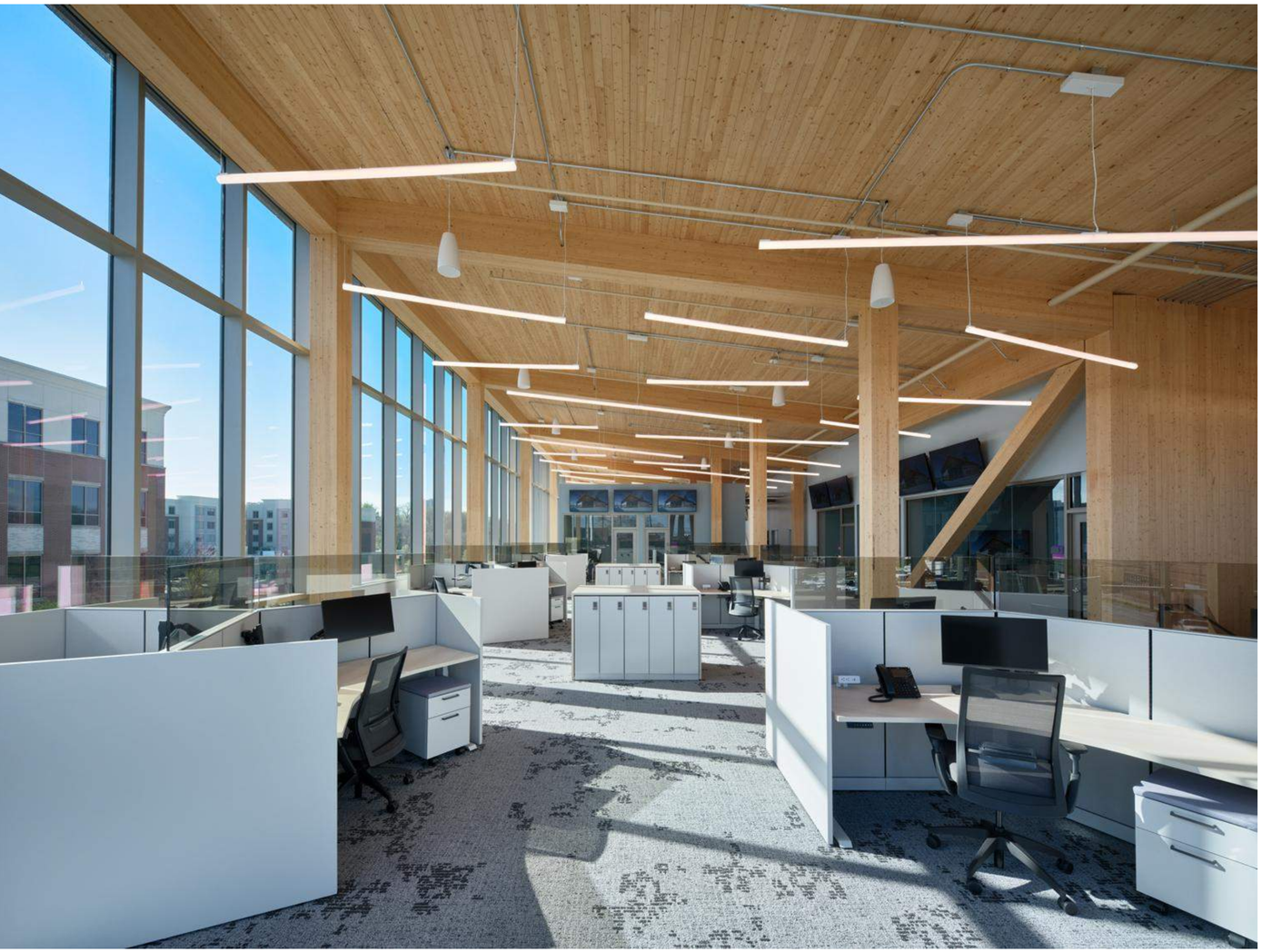




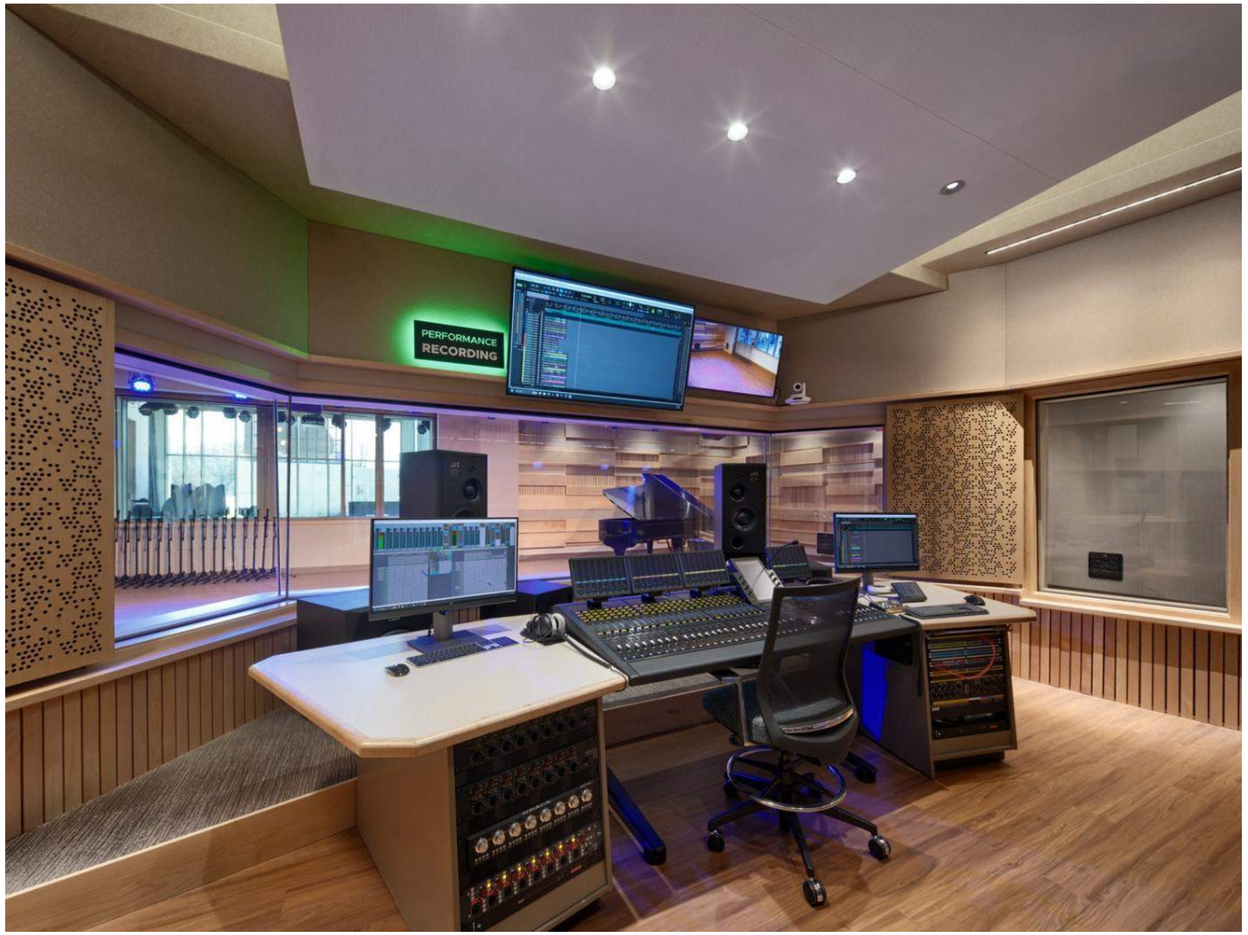


Main Stair

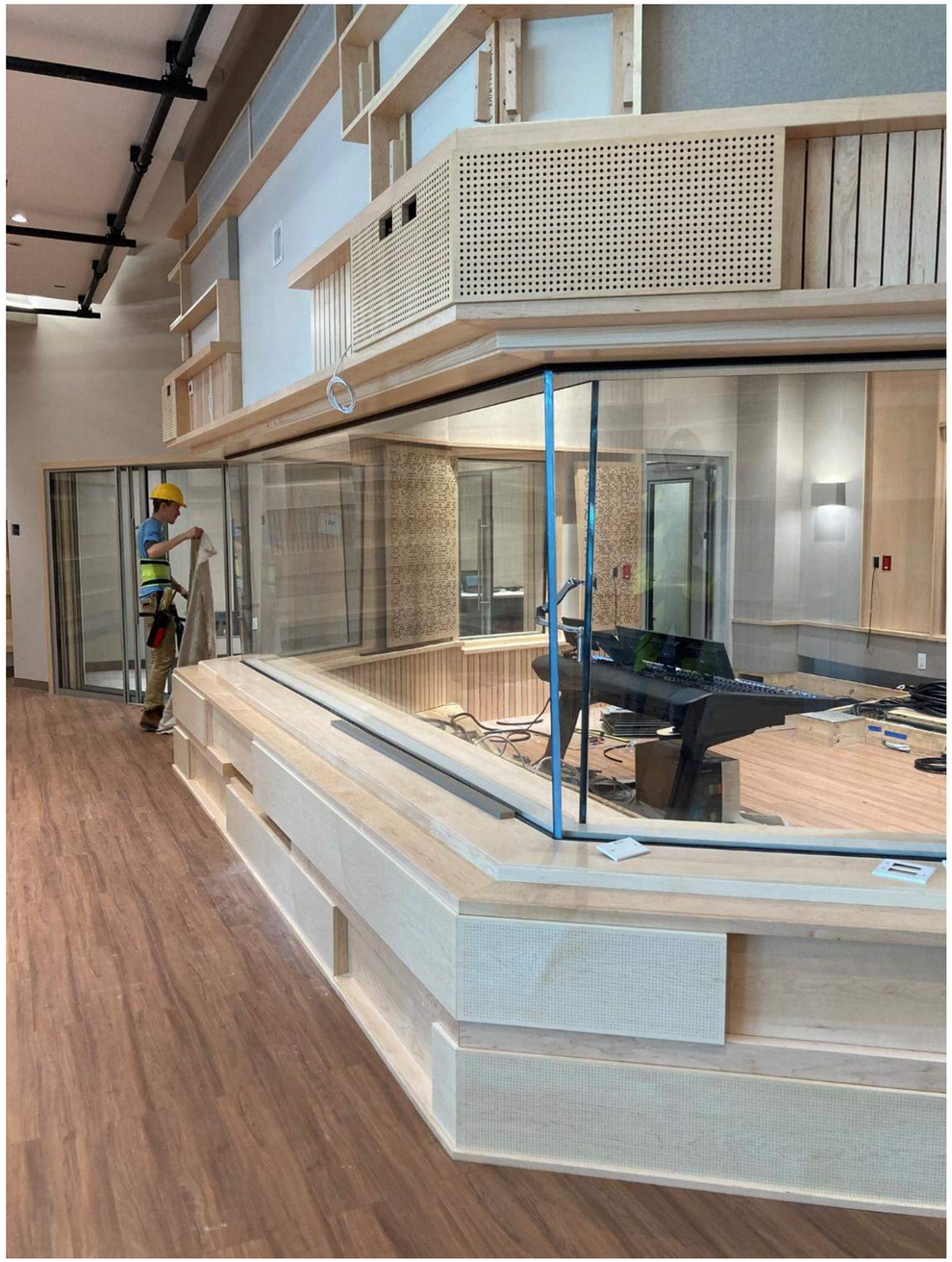
Gathering Space

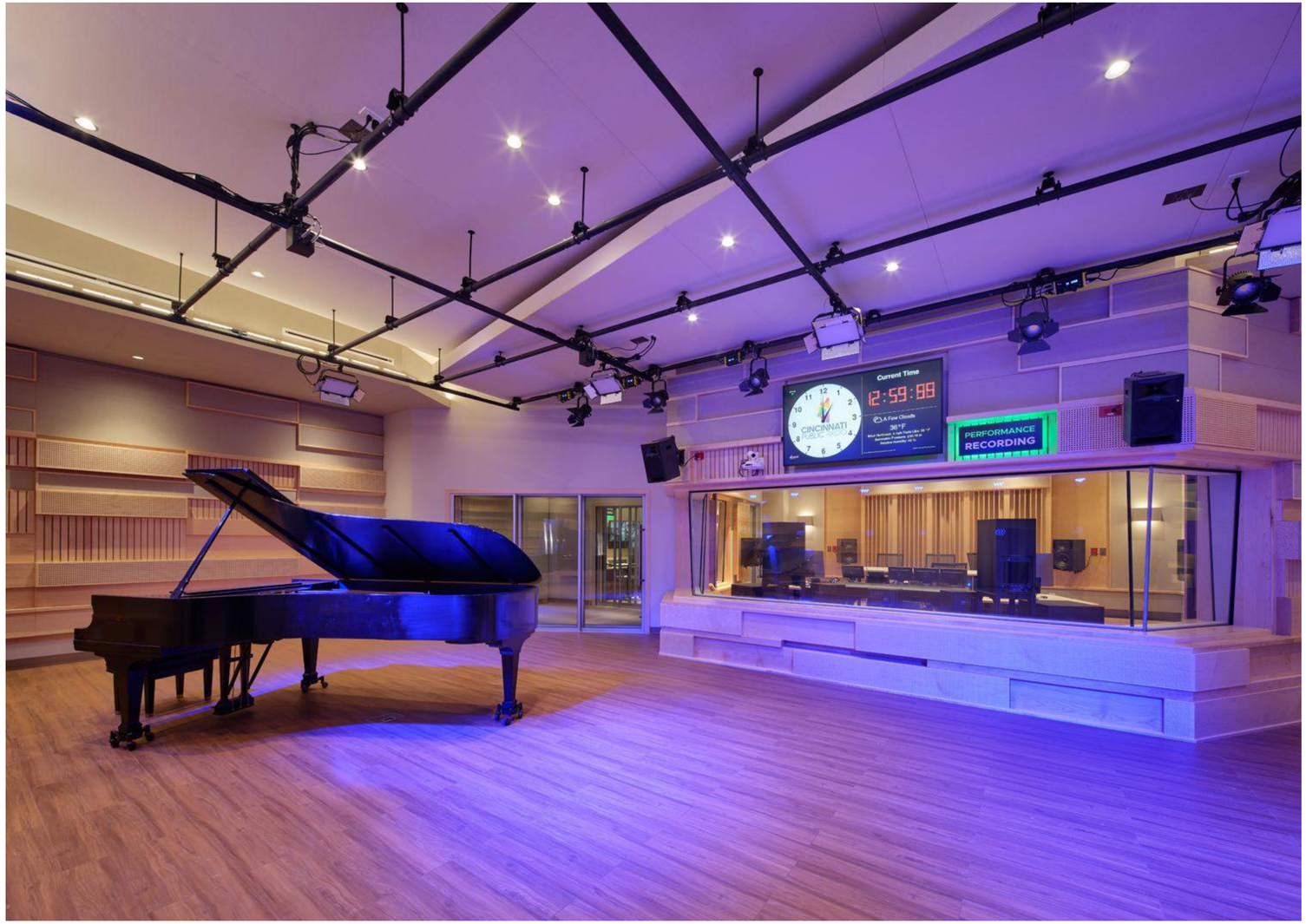


New Open Office | Content Open Office



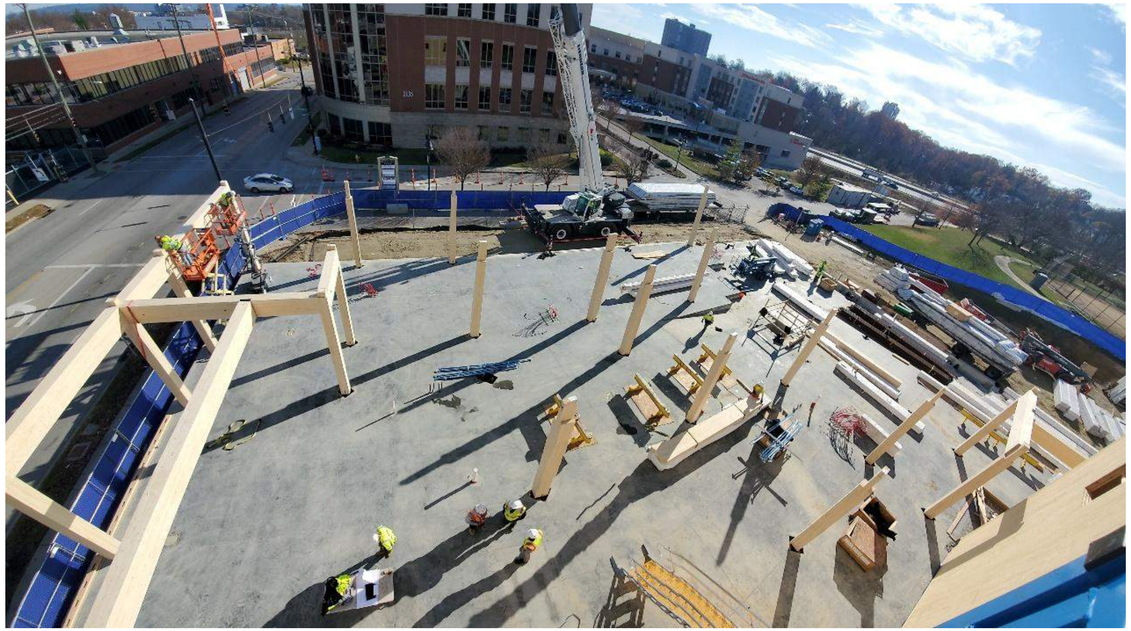
Performance Studio Control Room | Interview Studio





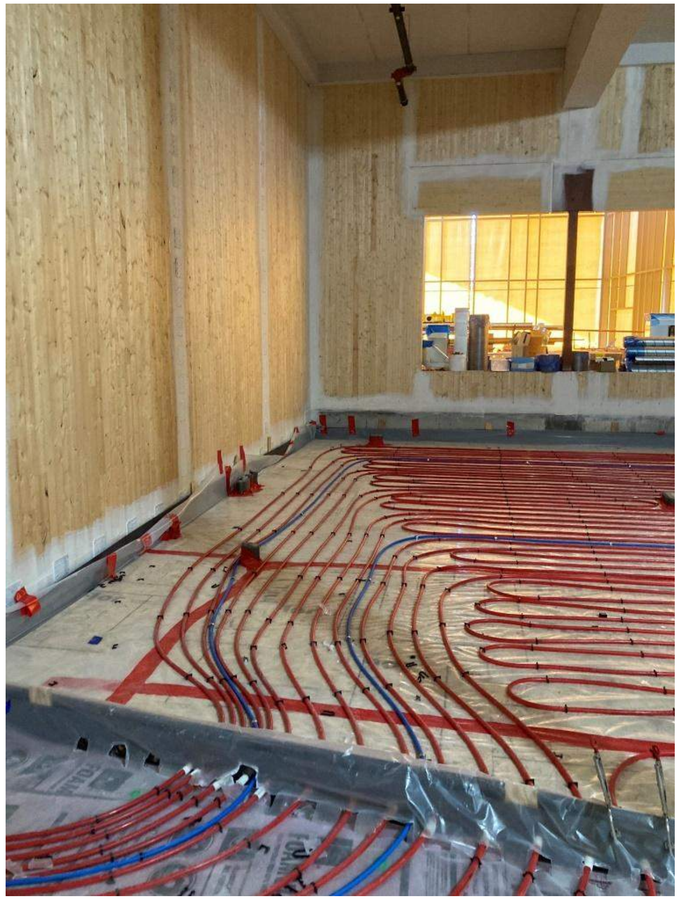
Performance Studio

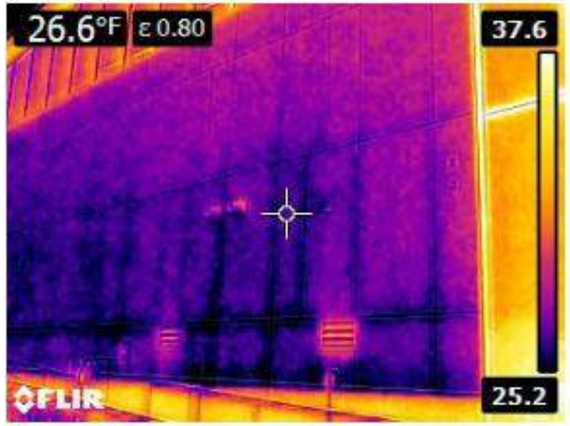
Time Lapse

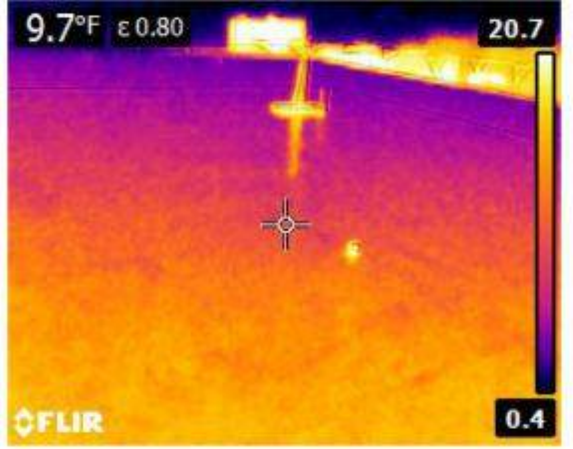



W. R. MEADOWS, INC.

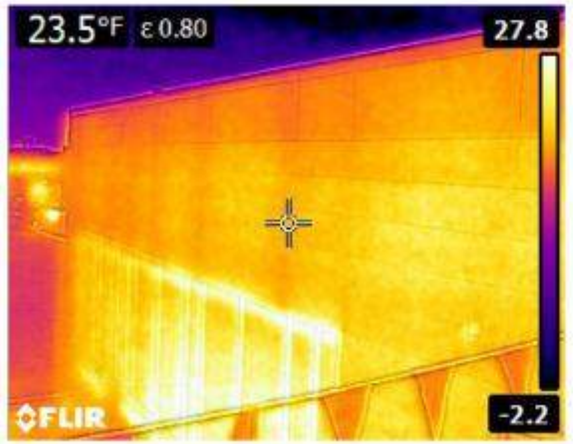

4/29/24 9:55 AM

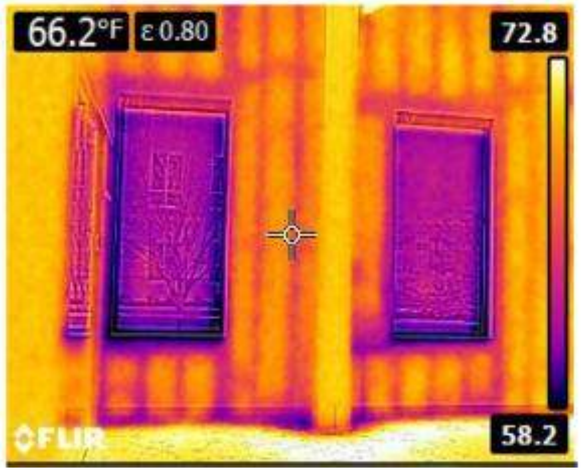



26.6°F ε 0.80
37.6
25.2
FLIR


9.7°F ε 0.80
20.7
0.4
FLIR


26.6°F ε 0.80
35.6
4.7
FLIR


23.5°F ε 0.80
27.8
-2.2
FLIR


66.2°F ε 0.80
72.8
58.2
FLIR


60.3°F ε 0.80
81.7
56.6
FLIR

Client Name	**Cincinnati Public Radio**
Project Location	Norwood, OH
Date:	12/19/2024
Test By:	IHH
Witness:	MD
Door Set Up	Man Door @ North Elevation
Ambient Conditions	39F/81%RH OverCast
Wind	Calm
Average Pressure Baseline (Pa)	-4.233
Envelope Area:	54,971
Induced Pressure Target	-50, '-75Pa
Allowable Leakage (CFM) Per SF	0.2
Allowable Leakage @ Pressure	10,994

Pass	Pass

Specified .2 CFM/SF @ 75 Pa

*All HVAC/Exhaust OFF
*All traps/drains wet
*All interior doors open
*Vents closed
*Vesitbules closed
*All exterior doors closed
*Flues Covered

Test 1- Negative	-4	2078	2777
Test 2- Negative	-3.8	2136	2547
Test 3- Negative	-4.9	2046	2754

Average Leakage @ Pressure 50 Pa	2,087
Average Leakage per SF @ Pressure 50 Pa	0.038

Average Leakage @ Pressure 75 Pa	2,693
Average Leakage per SF @ Pressure 75 Pa	0.049

Average Leakage @ Pressure 50 Pa	2,087
Average Leakage per SF @ Pressure 50 Pa	0.038

Average Leakage @ Pressure 75 Pa	2,693
Average Leakage per SF @ Pressure 75 Pa	0.049

lessons learned

- procurement and shop drawings take time – lock in a manufacturer as soon as you are able
- coordination, coordination, coordination – and then more coordination
- protection of material is critical
- life cycle analysis tools still need some advancement
- the power of ‘awe’ is still inspiring

Tent

lessons learned

- procurement and shop drawings take time – lock in a manufacturer as soon as you are able
- coordination, coordination, coordination – and then more coordination
- protection of material is critical
- life cycle analysis tools still need some advancement
- the power of ‘awe’ is still inspiring

Majority of Emissions

Product Phase	Construction Phase	Use and Maintenance Phase	End-of-Life Phase
Raw material and transportation	Transportation to site	Use and maintenance	Deconstruction and demolition
Manufacturing	Installation	Repair and refurbishment	Transportation
		Operational energy and water	Processing and disposal

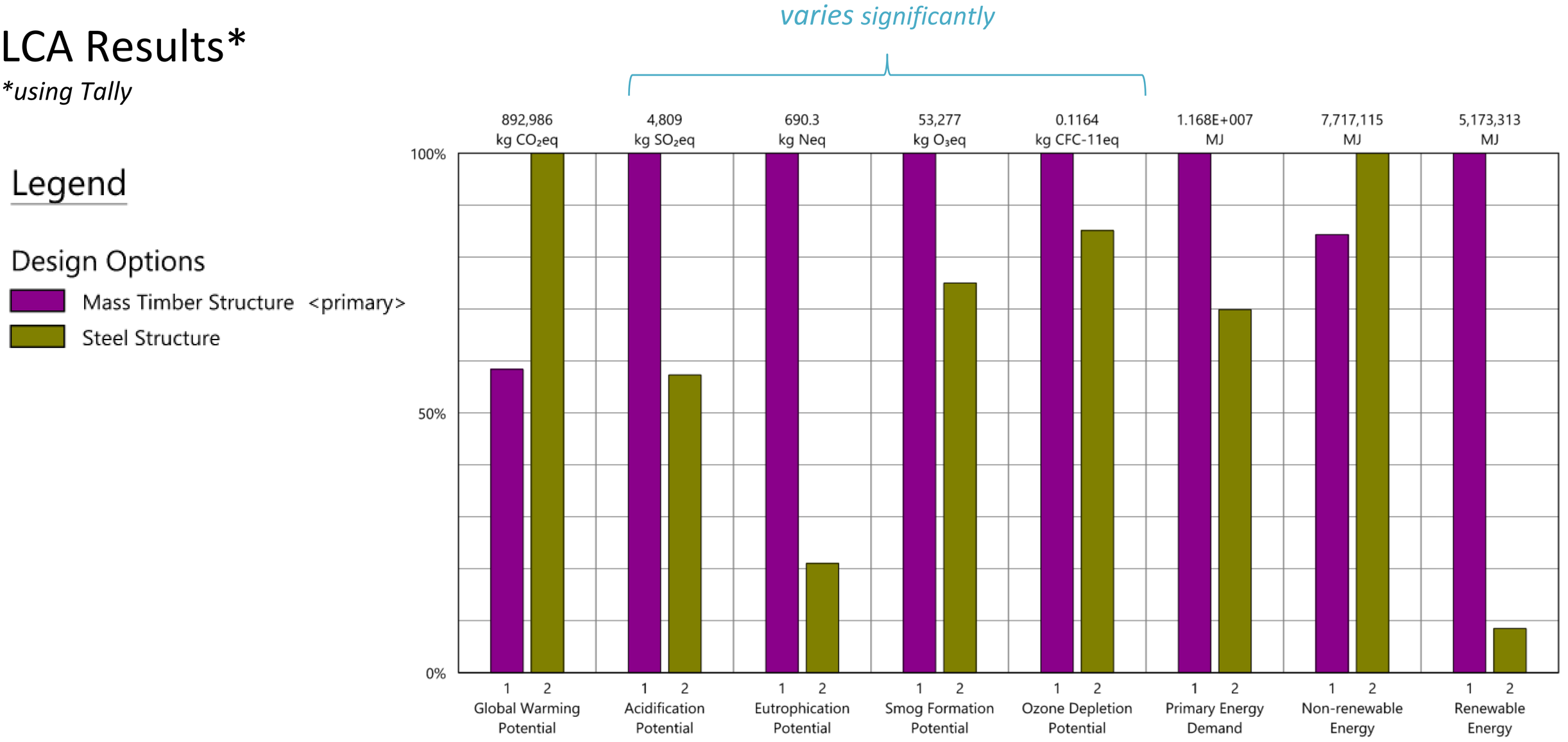
Environmental Product Declaration

**from manufacturer per 1 cubic meter of wood*

Carbon Balance	Kg of CO2 equivalent
Forest Carbon Uptake	-741.36
Life-cycle GHG emissions	100.38
Unaccounted biogenic carbon emissions in GWP reporting	26.70
Net GWP	-614.27

LCA Results*

**using Tally*



LCA Results

Legend

Net value (impacts + credits)

Design Options

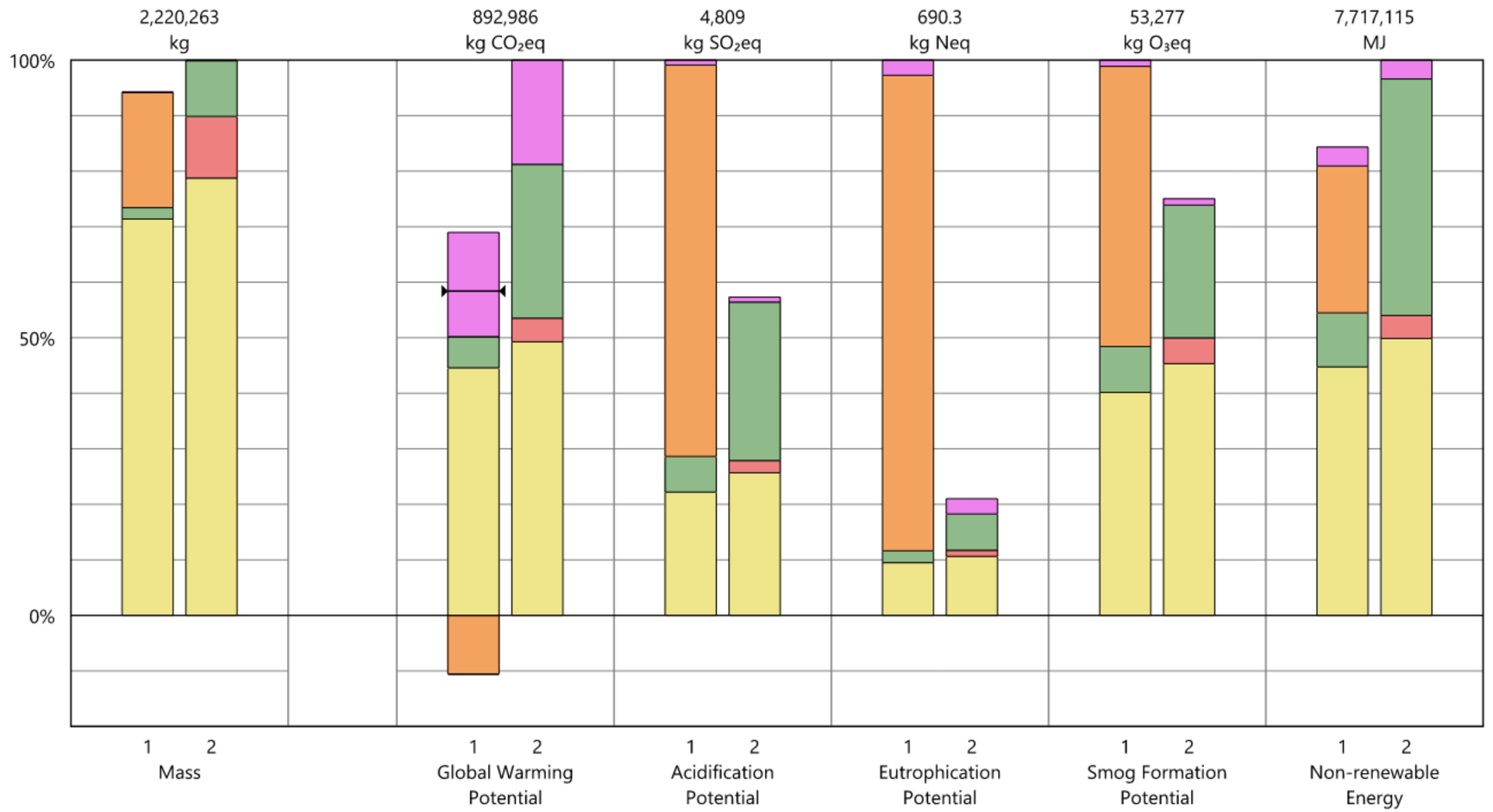
Option 1 - Mass Timber Structure <primary>

Option 2 - Steel Structure

Divisions

- 03 - Concrete
- 04 - Masonry
- 05 - Metals
- 06 - Wood/Plastics/Composites
- 07 - Thermal and Moisture Protection

Results per Division



LCA Results

Legend

Net value (impacts + credits)

Design Options

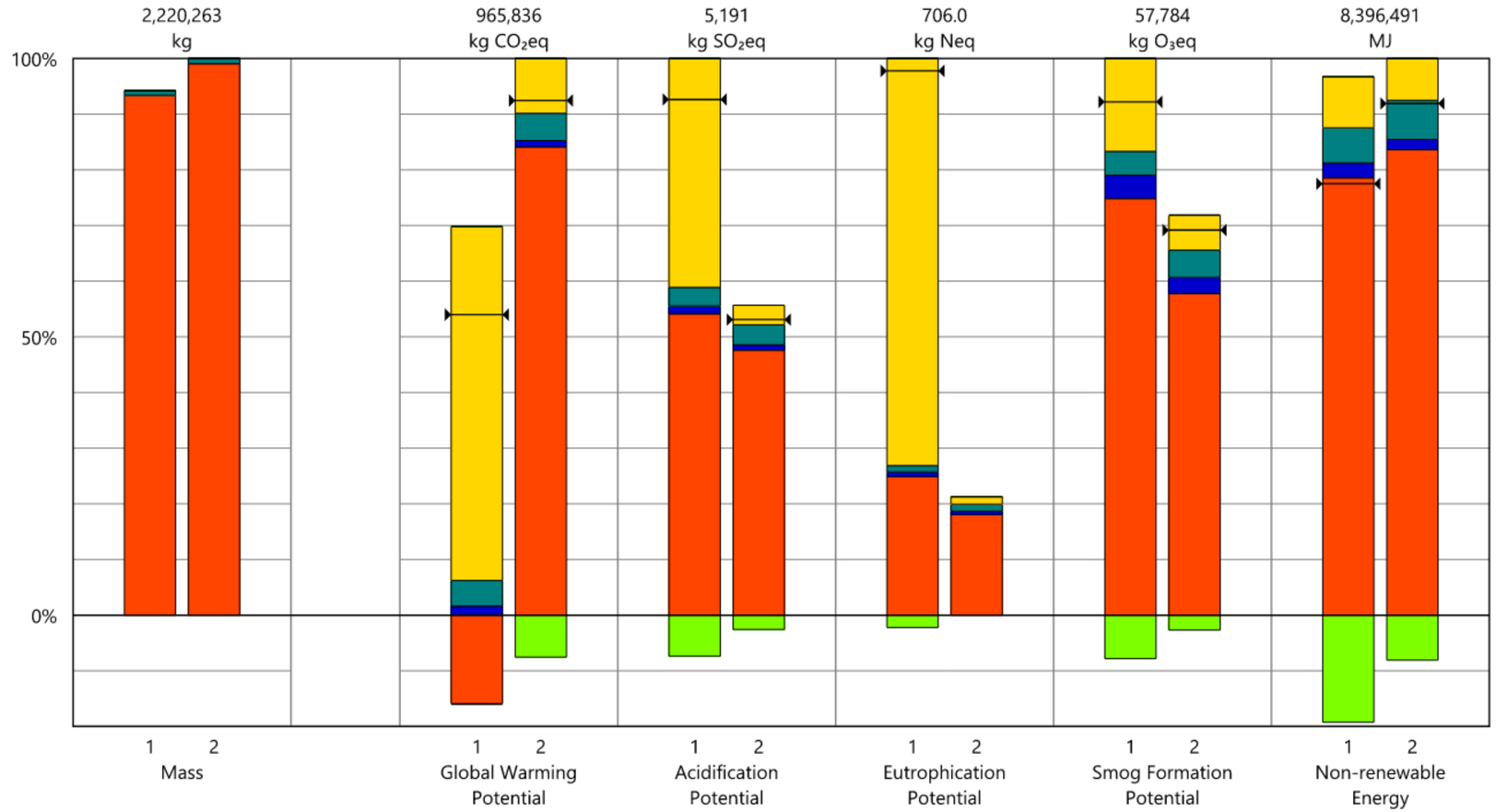
Option 1 - Mass Timber Structure <primary>

Option 2 - Steel Structure

Life Cycle Stages

- Product [A1-A3]
- Transportation [A4]
- Maintenance and Replacement [B2-B5]
- End of Life [C2-C4]
- Module D [D]

Results per Life Cycle Stage



lessons learned

- procurement and shop drawings take time – lock in a manufacturer as soon as you are able
- coordination, coordination, coordination – and then more coordination
- protection of material is critical
- life cycle analysis tools still need some advancement
- the power of ‘awe’ is still inspiring


THANK YOU TO OUR DONORS


PERFORMANCE
RECORDING
Current Time
9:05:33

Outdoor Space

Exterior – North view

Under Armour Global Headquarters

ARCHITECT
Gensler

STRUCTURAL ENGINEER
Thornton Tomasetti

GENERAL CONTRACTOR
The Whiting-Turner Contracting Company

OWNER
Under Armour

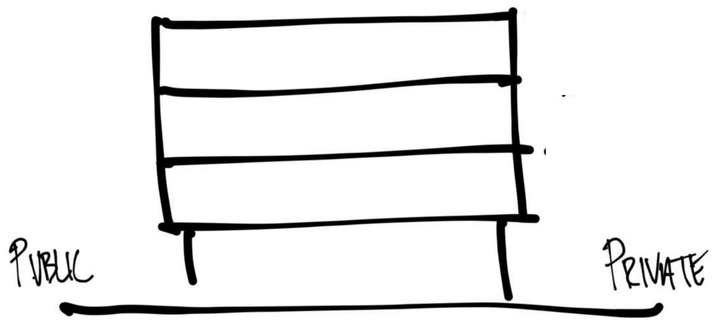
TION
ore, Maryland

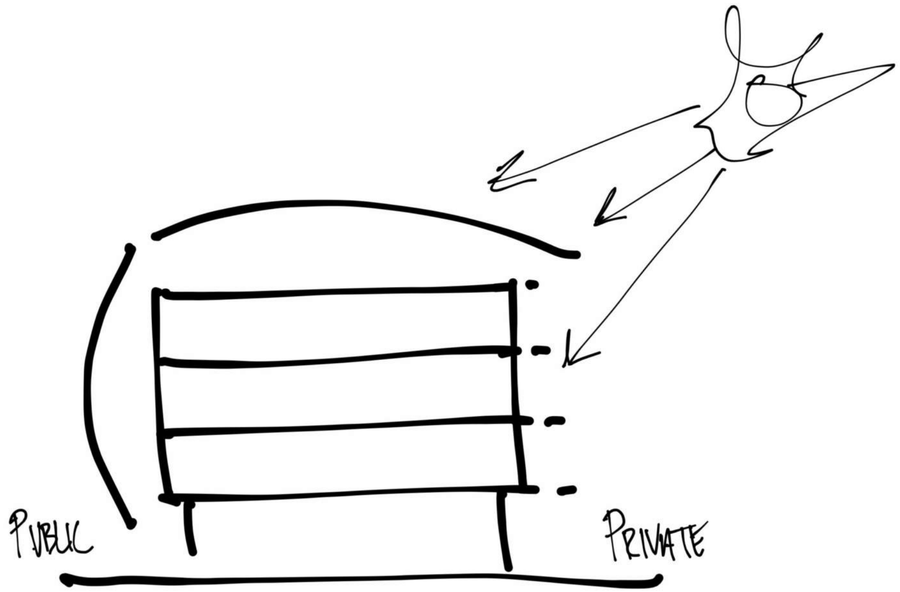
Gensler

Presented by Bob Perry, AIA

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


This planet is our home field. It’s the only one we’ve got...
Let's protect it.


PUBLIC
PRIVATE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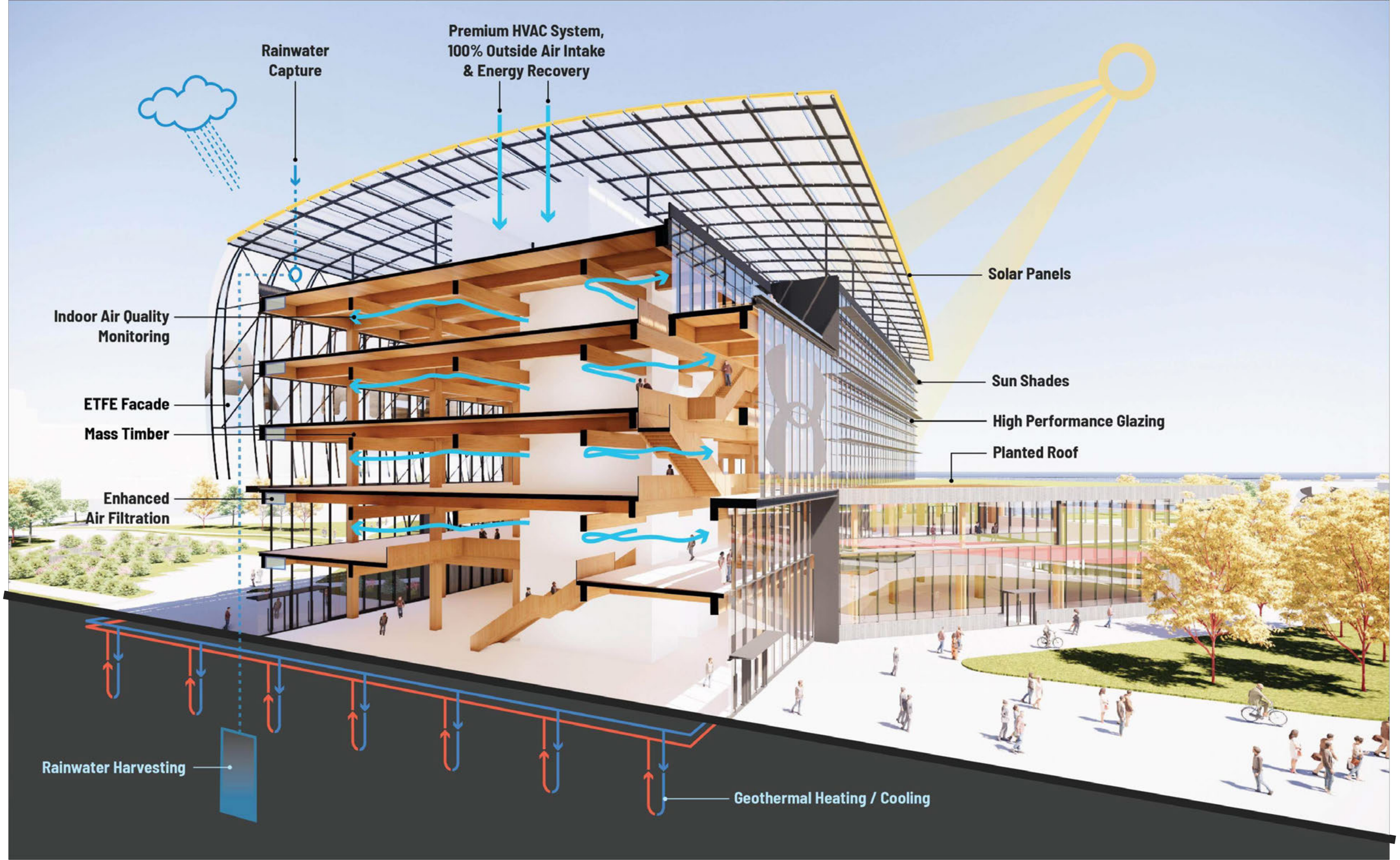
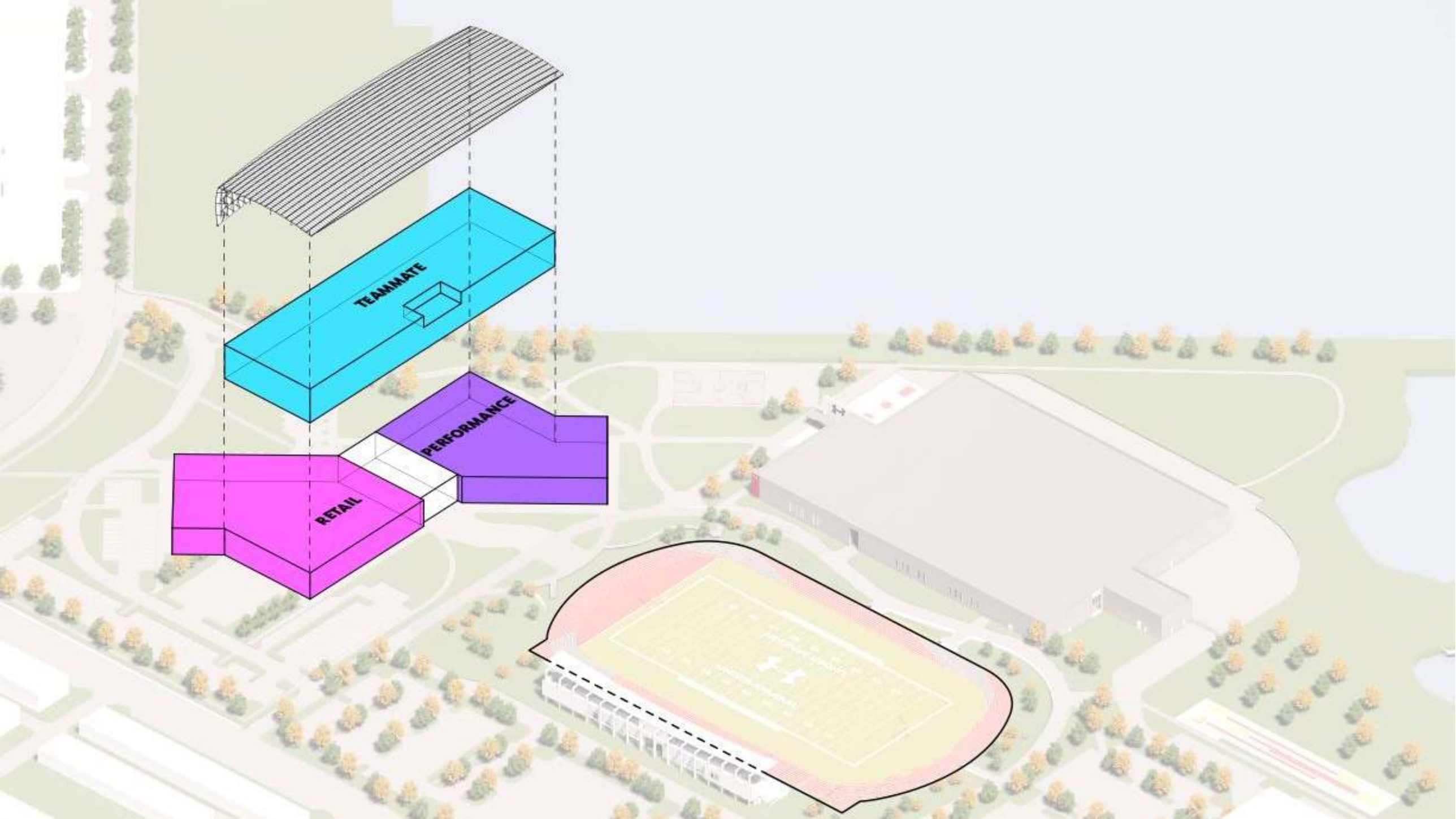

Rainwater Capture
Premium HVAC System, 100% Outside Air Intake & Energy Recovery
Solar Panels
Indoor Air Quality Monitoring
Sun Shades
ETFE Facade
High Performance Glazing
Mass Timber
Planted Roof
Enhanced Air Filtration
Rainwater Harvesting
Geothermal Heating / Cooling


UNDER ARMOUR
PROTECT THIS HOUSE
UNDER ARMOUR


TEAMMATE
PERFORMANCE
RETAIL

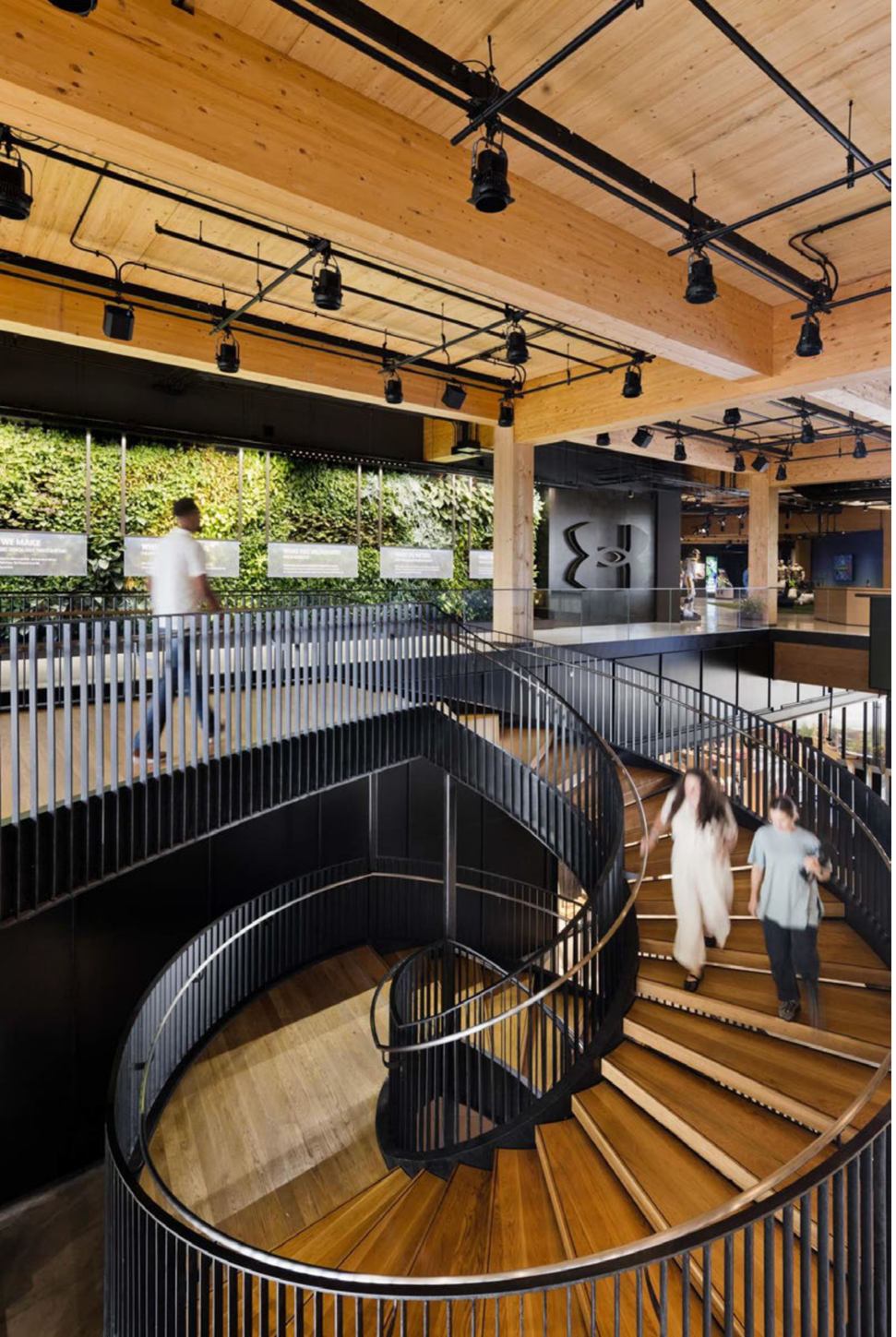

UNDER ARMOUR


UNDER ARMOUR


INFINITE PRO STORM


CYBEX
CYBEX
CYBEX

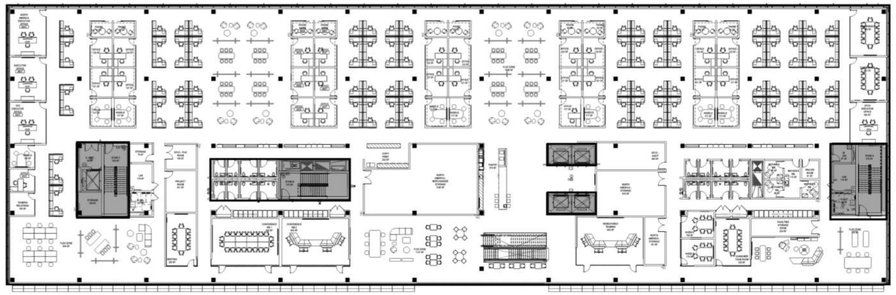

PROTECT




22


FIGHT ON TOGETHER

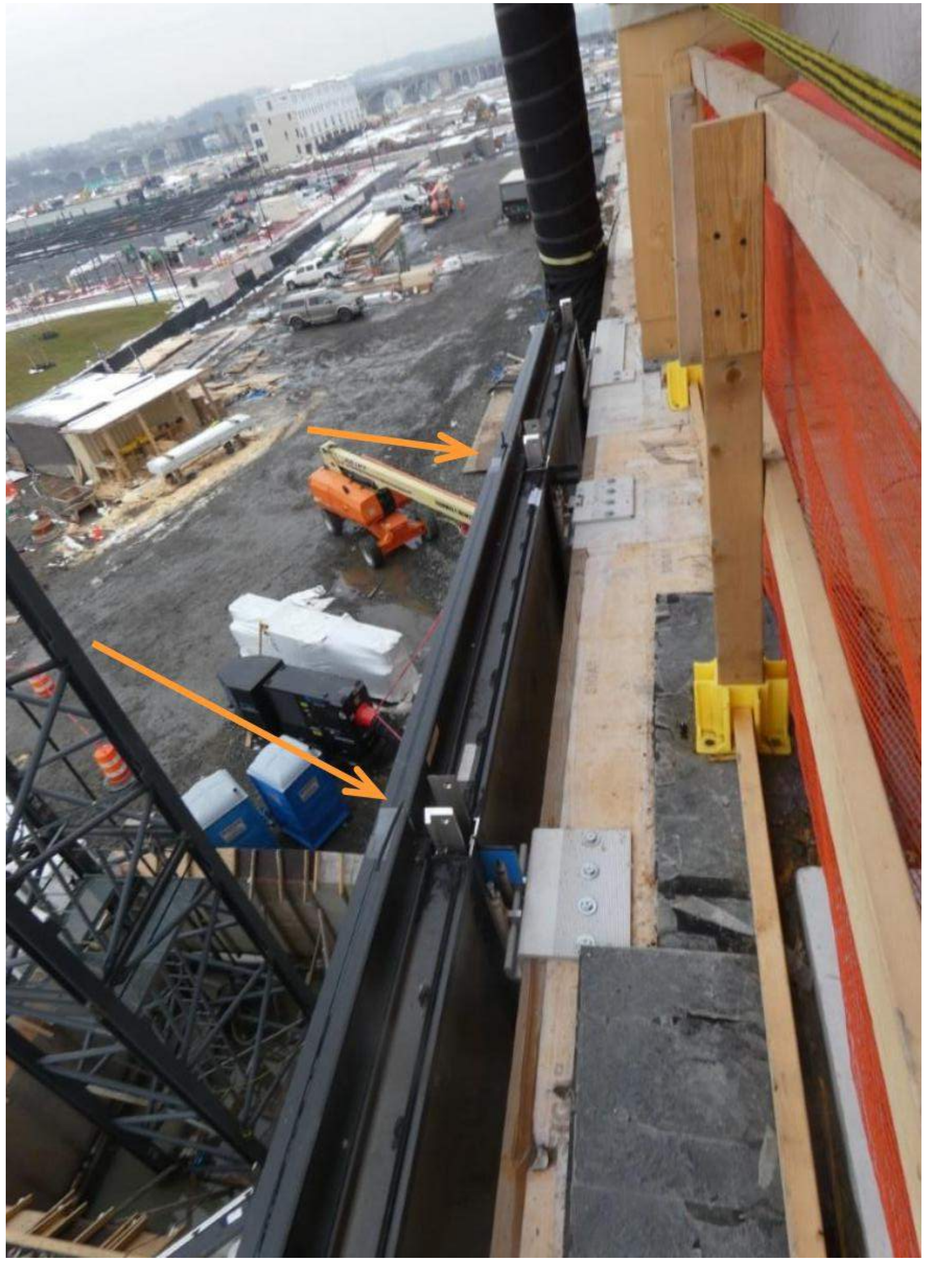

40 YEARS OF PROTECTING THIS HOUSE



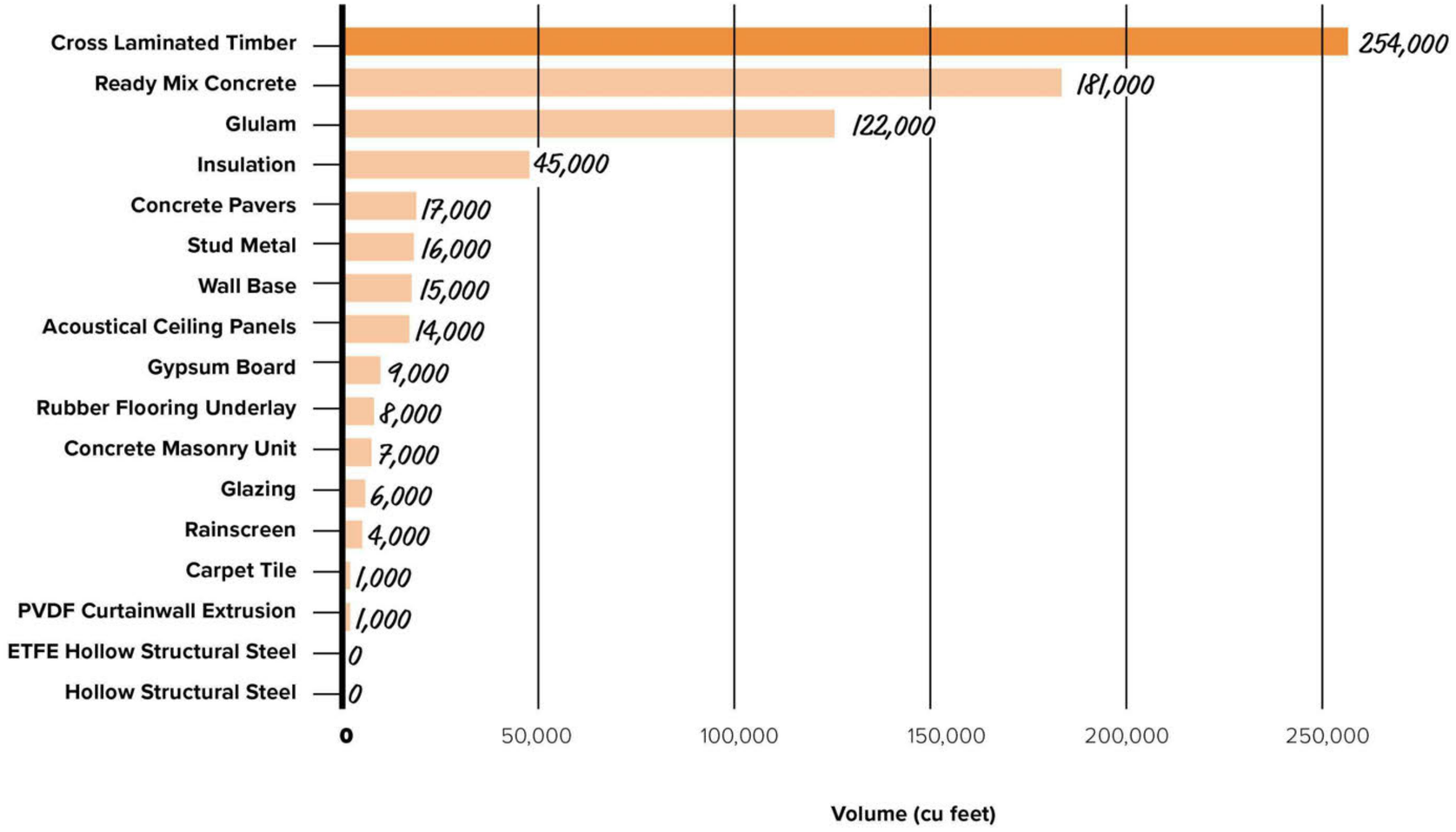

UNDER ARMOUR
PROTECT THIS HOUSE

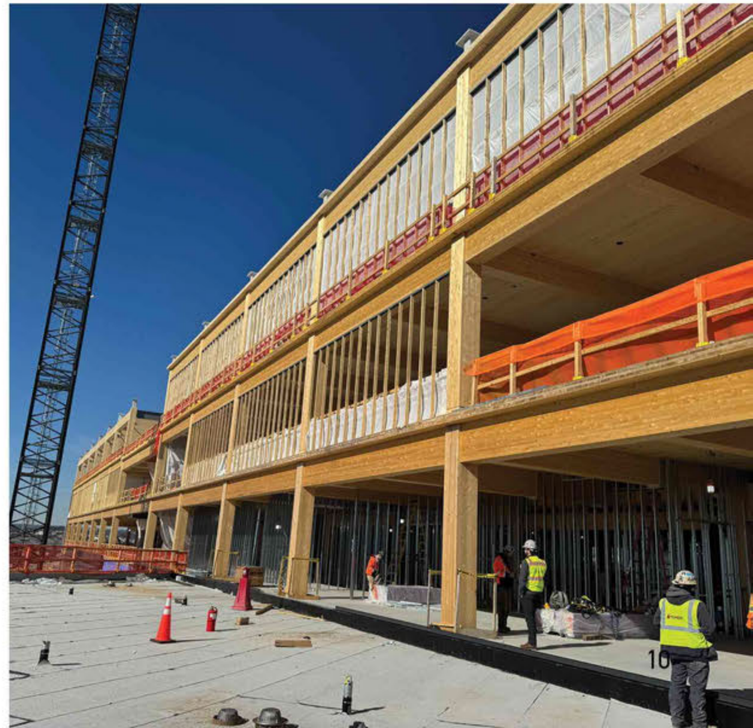

UNDER ARMOUR
PROTECT THIS HOUSE.


CAUTION
CUIDADO

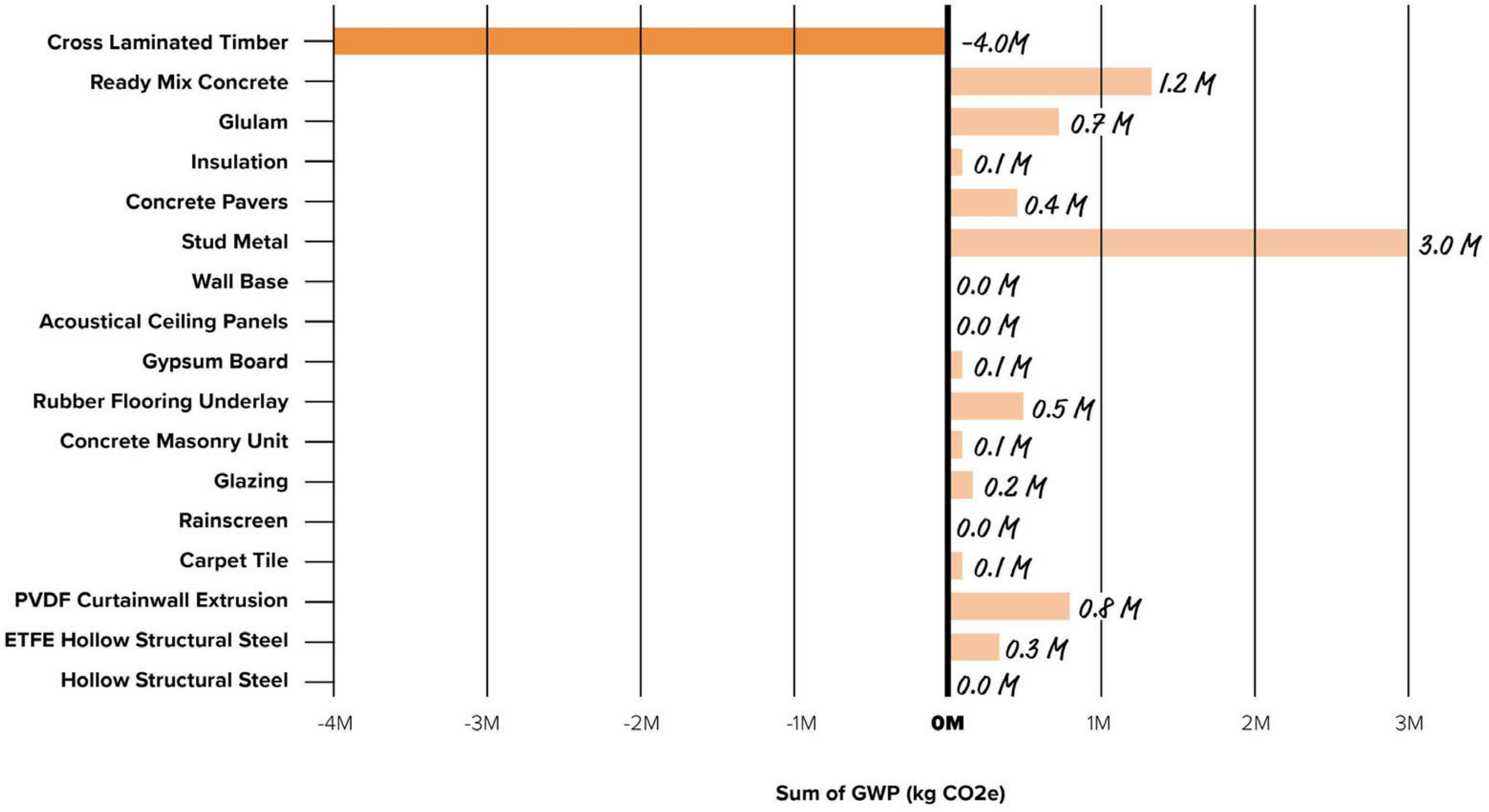


VOLUME OF MATERIALS





CARBON IMPACT OF MATERIALS




WHAT DO WE MAKE
WHAT ARE WE AGAINST
22

Thank you!

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This concludes The American Institute of Architects Continuing Education Systems Course