### Tall Mass Timber in the Midwest: Designing Two of the Country's Tallest Wood Projects

INTRO, Cleveland: Nine Stories of Type IV-B Mass Timber in Cleveland, OH

**Presented by Dan Whalen** 

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

# IMIRO





#### Harbor Bay.

We are relationship-focused, and neighborhood conscious. Shaping the future of cities by driving innovation & value creation at underutilized, high-profile locations.

#### We're always building,

INTRO, Cleveland (297 units, Retail, T.O.D.)
Cleveland, OH | Winter 2021/2022 Delivery

Newman Lofts (91 units, Retail) East Lansing, MI | Sept 2019

Landmark on Grand River (471 beds, retail)
East Lansing, MI | Aug 2019

Hilton Hotel, Mayo Clinic (286 rooms, 5-stars)

Rochester, MN | Apr 2019

HUB on Campus (700 beds, T.O.D)
Minneapolis, MN | 2018

**ENDI** (168 units, retail)
Duluth, MN | 2017

Preserve on Maine (200 units)
Rochester, MN | 2017

**The Boden (300 beds)**Grand Forks, ND | 2016







- Atop the Ohio City transit hub (9 bus routes + light rail)
  - In partnership with the historic West Side Market
    - Adjacent to the future Irishtown Bend Park,
       Red Line Greenway and Lorain Ave Cycle Track
    - Cleveland's most dynamic, socioeconomically diverse neighborhood
- Linking Downtown, Tremont, Ohio City and Cleveland's near west side



#### Groundbreaking - FEBRUARY 2020 Completion - WINTER 2021/2022

\$135M

Investment (Phase I)

**297** 

Apartments

40,000

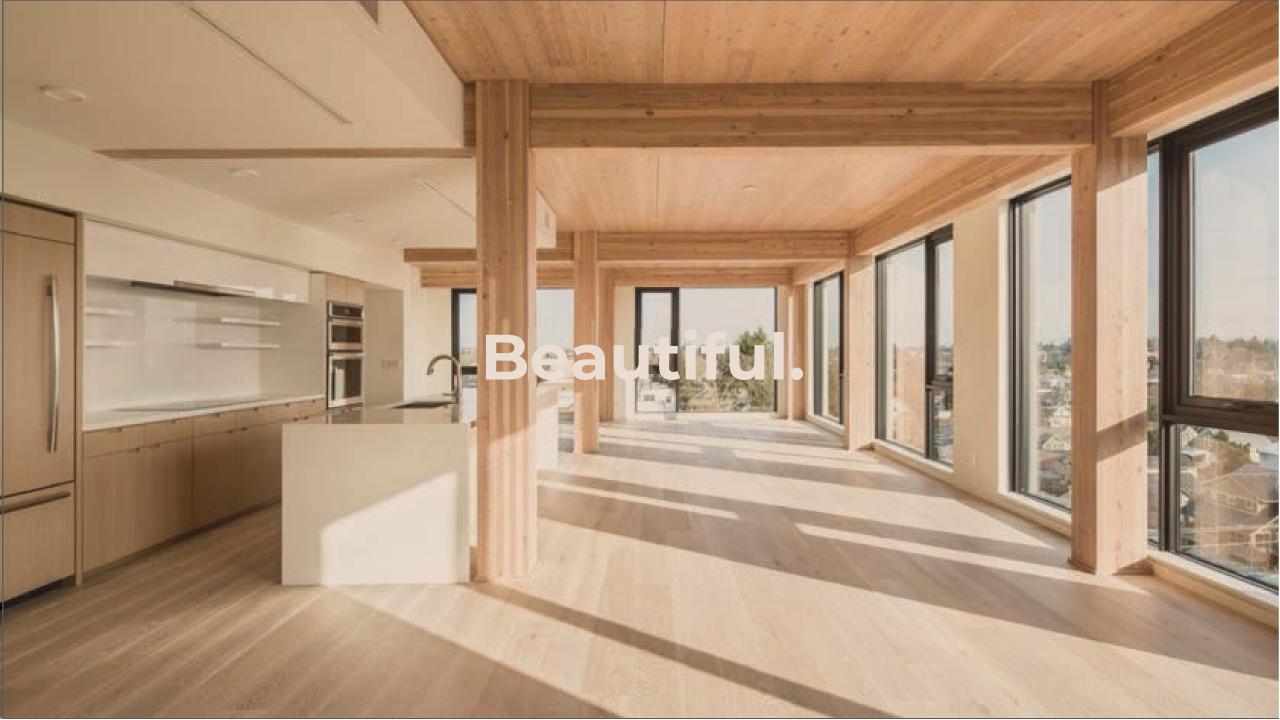
Square Feet of Retail

12,500

Square Foot Rooftop Event Venue 1+ ACRE

of Public Green space

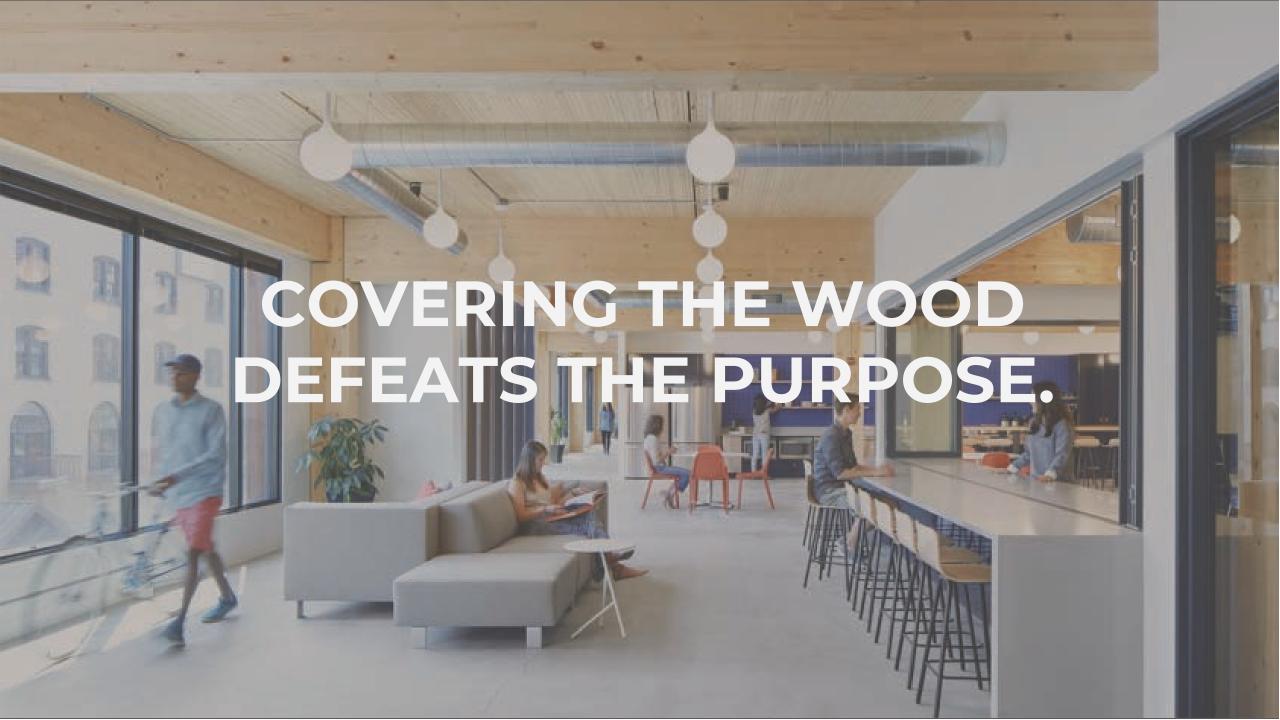














Is the code based on data or based on fear?

Can we get to the required fire-ratings another way?

Does less coverage mean it's less safe?

Wait, the tests didn't include sprinklered situations?

Once a believer, what building type do we design to?

Being a part of something larger means being willing to think critically and put in the work.

## Approach:

2021 code has elements that are semi-arbitrary.

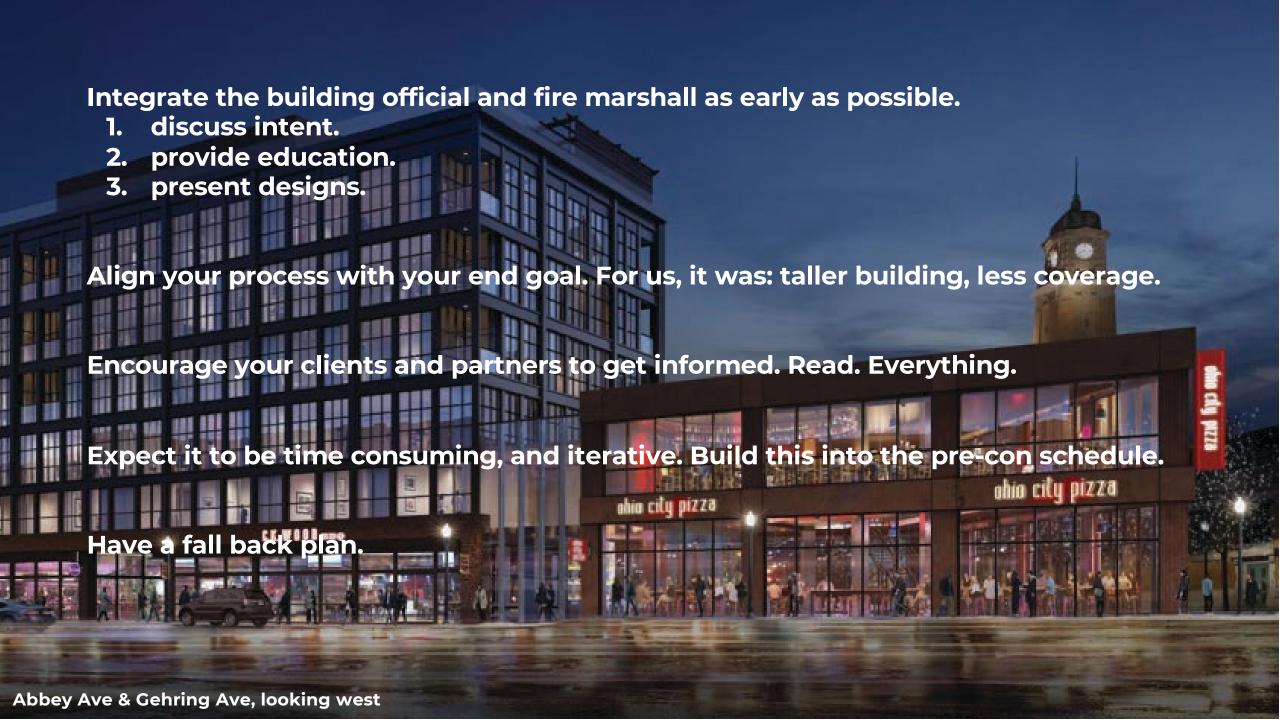
Beefed up timber members. Shorter egress distances. Redundant water supply to the building. Total fire fuel load vs. max allowed.

Does less coverage mean it's less safe? Data says: NO.

Sprinklers everywhere.

Getting the Chief Building Official to lead is imperative. Educate. Motivate. Celebrate.

Design against future code or current one? Means to the end of Alternatively Engineered Design Approval.





HARBOR BAY

### **QUESTIONS?**

This concludes The American
Institute of Architects Continuing
Education Systems Course

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