

22<sup>ND</sup> ANNUAL



22<sup>ND</sup> LCI CONGRESS  
OCTOBER 19-23

# Not just for big jobs: How prefabrication can save time and money on small projects

Kevin Mathews, Mike Alder, Brandon Owens; Pepper Construction

THE ABC'S OF LEAN: TRANSFORMATION THROUGH ACTIONS, BEST PRACTICES AND COACHING

Wednesday, October 21, 2020

# Today's Speakers



**Kevin Mathews**

Senior Project Manager



**Mike Alder**

Director of Virtual  
Construction



**Brandon Owens**

Superintendent



# The Industry Mindset





# Common Use





# The Challenge



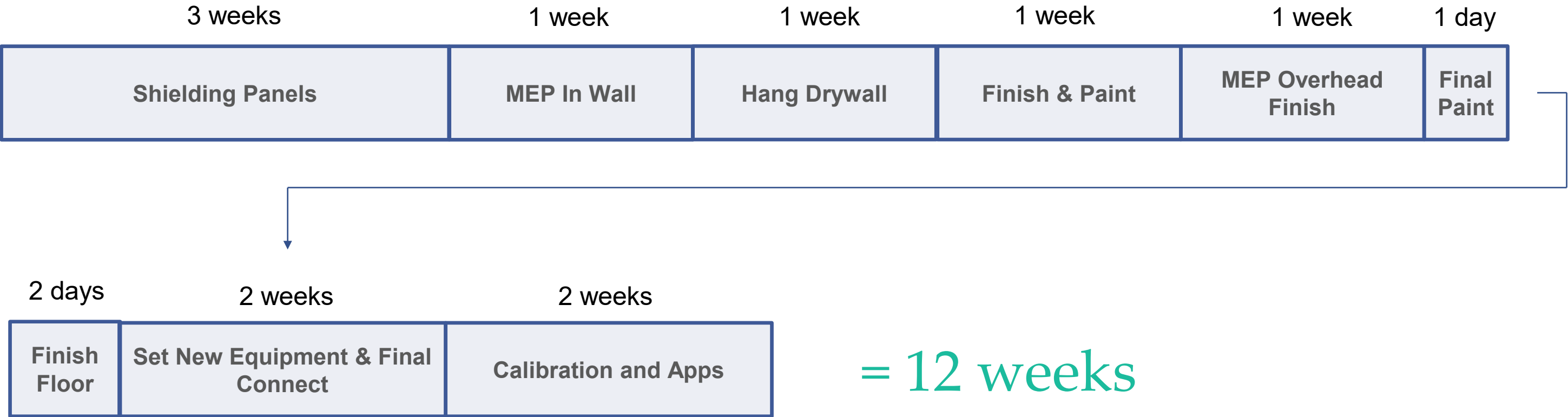


# MRI Lab Renovation

- One room renovation
- Complete demo
- New layout & MRI equipment
- MEP rough-in, wood studs, framing, ceilings, shielding and finishes



# Typical Reno



# Owner considerations

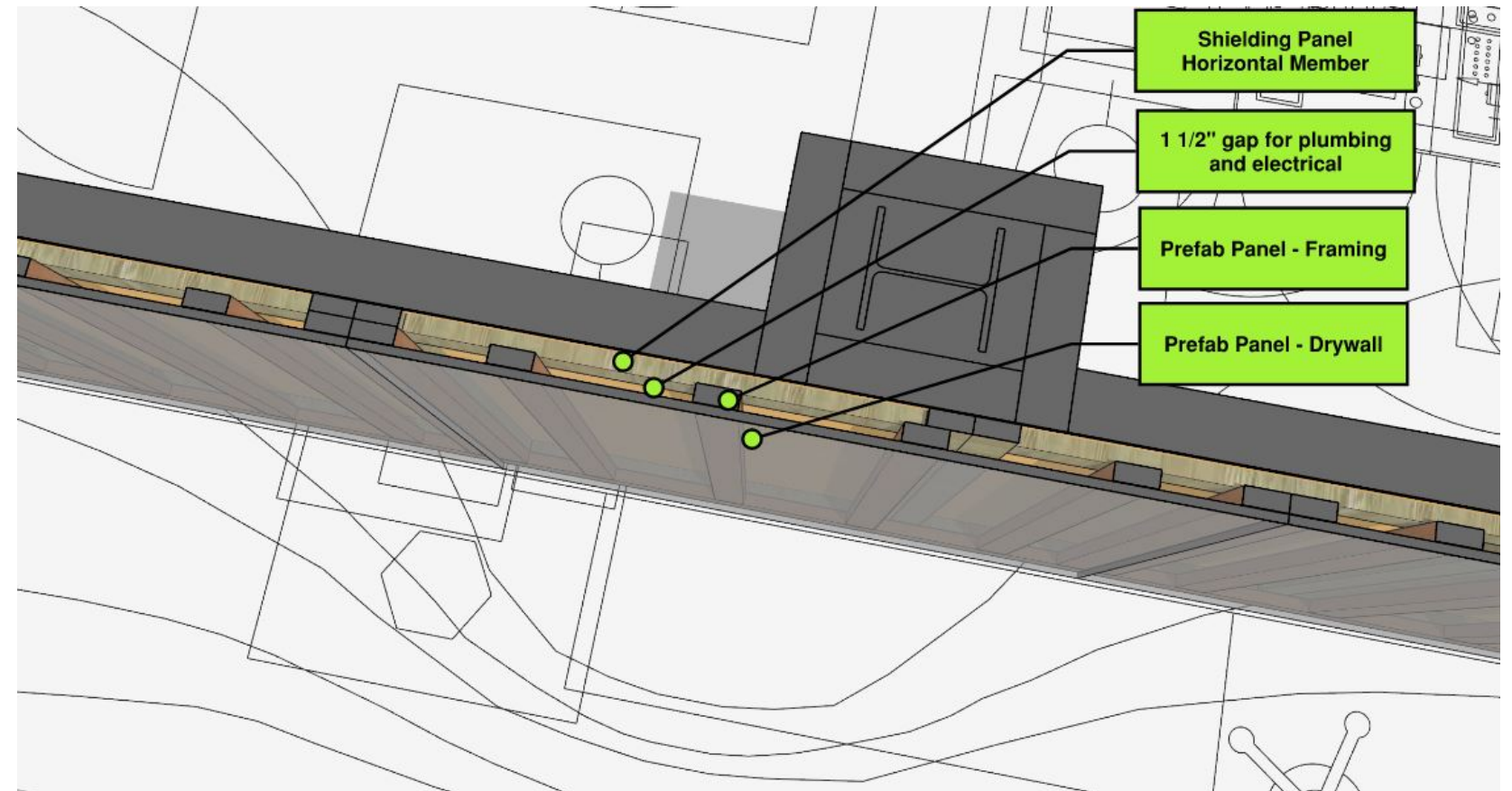
- Understanding client's values
- Equipment storage
- Remain active





# Team considerations

- Size limitations
- Transportation
- Coordination



# Coordinating through Technology

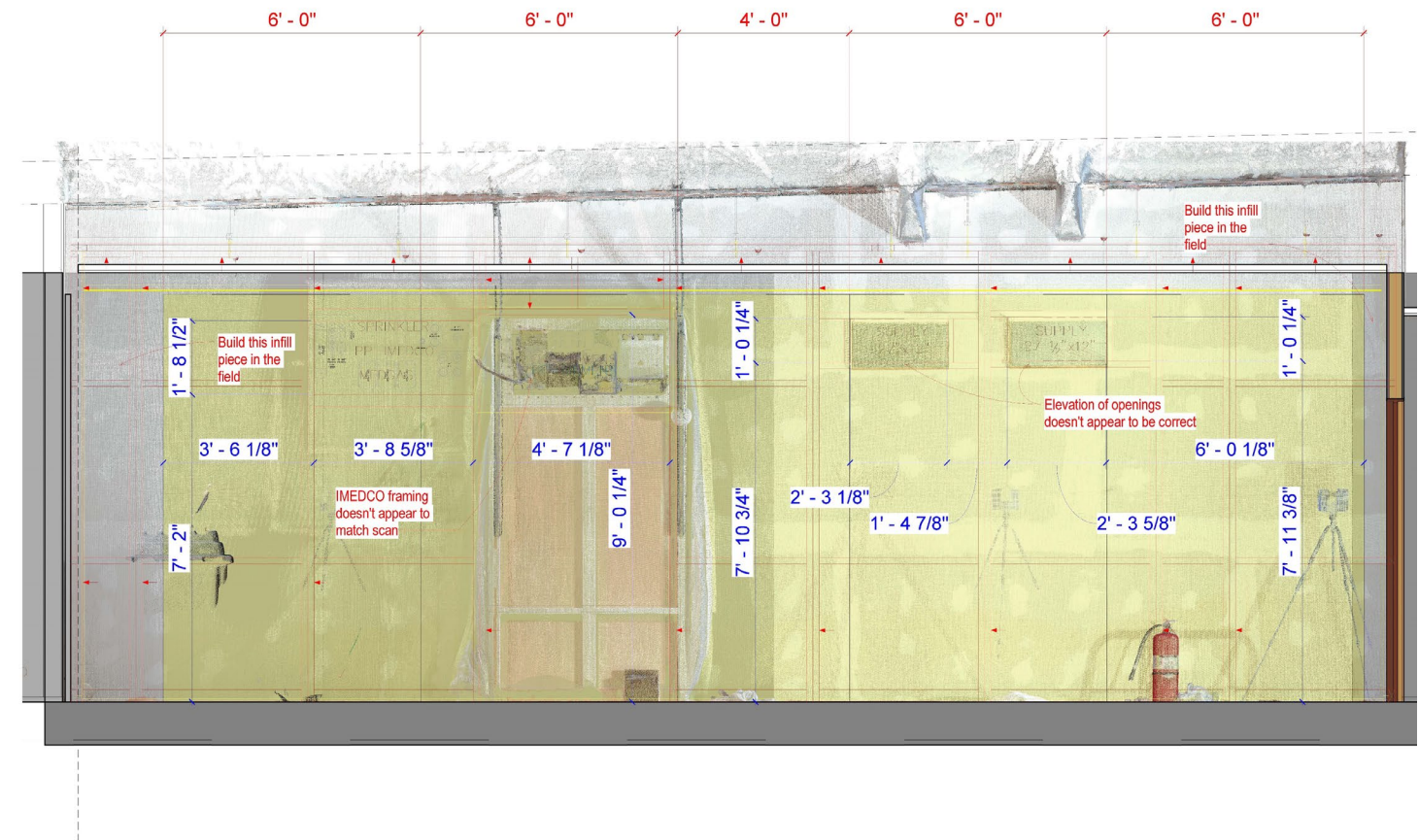
## 1. Scan existing conditions





# Coordinating through Technology

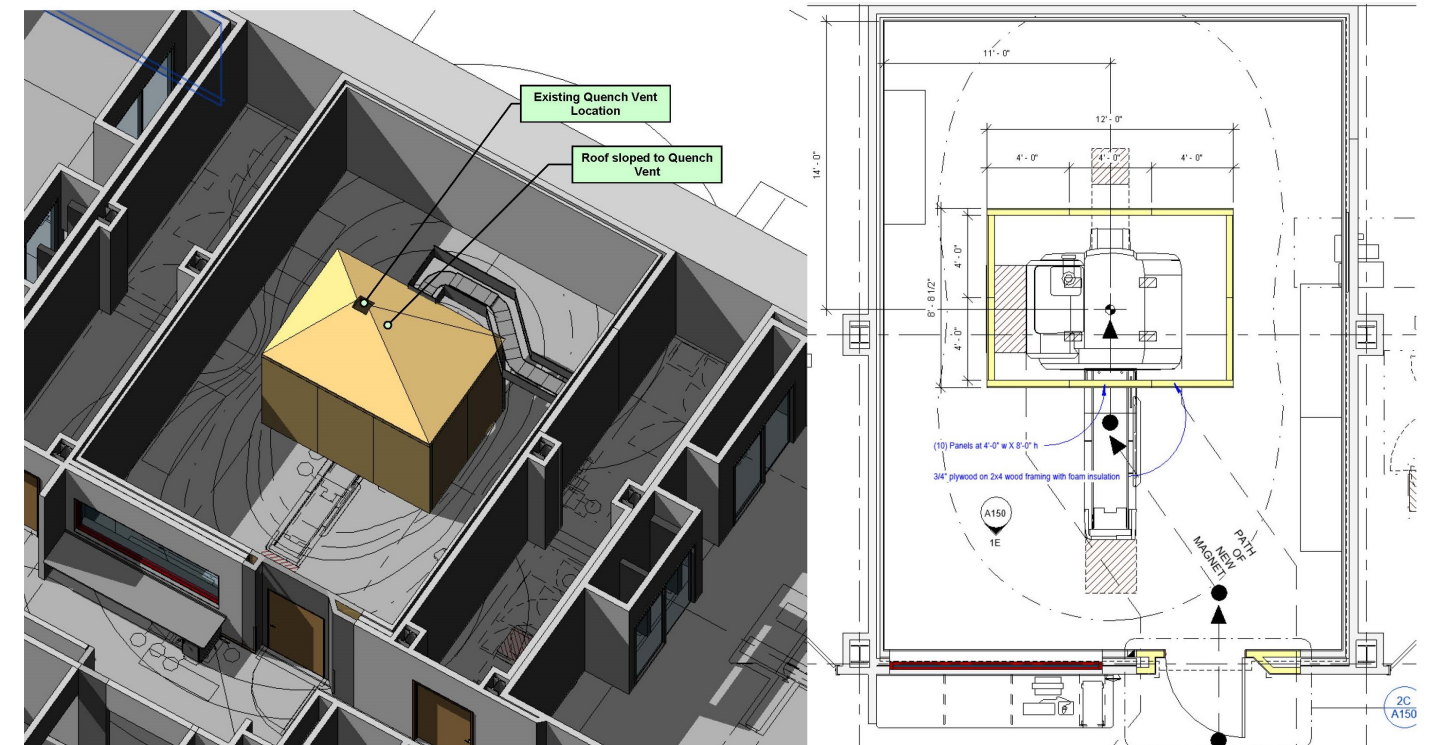
## 2. Develop 3D Model of Prefab Panels





# Coordinating through Technology

## 3. Coordinate with MRI shielding shop drawings



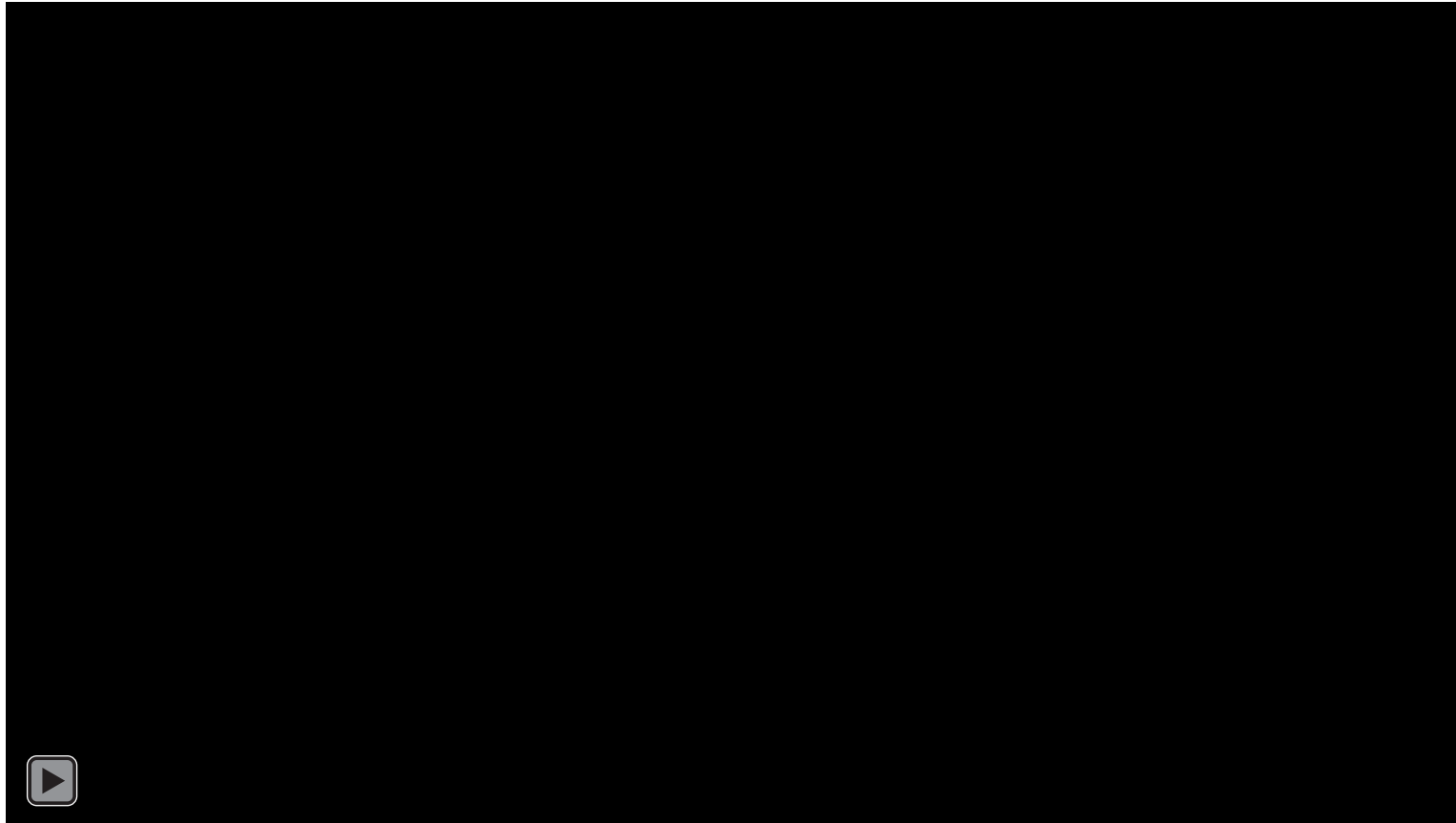
# Coordinating through Technology

## 4. Generate Prefab Panel Shop Drawings





# Collaboration

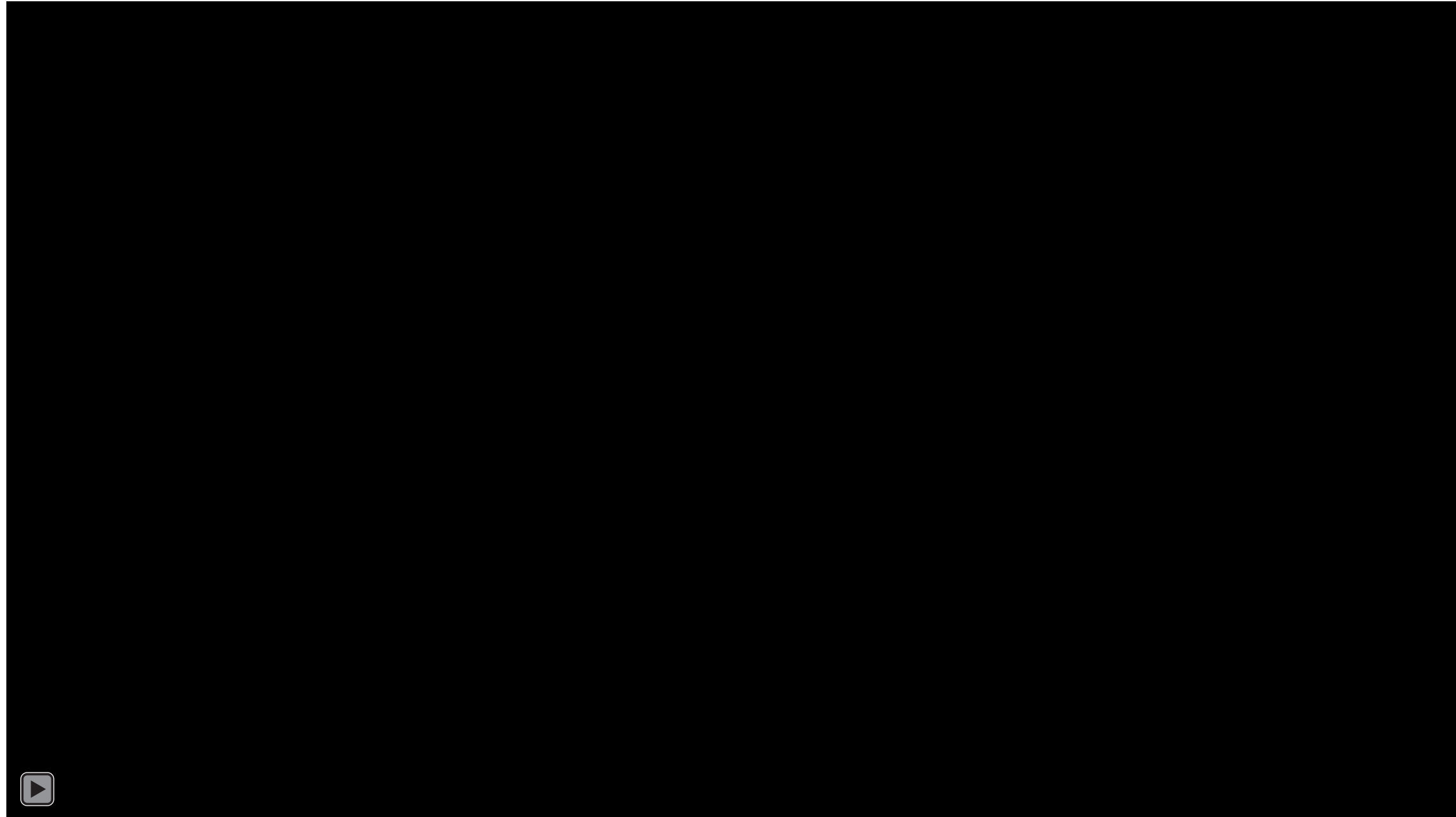




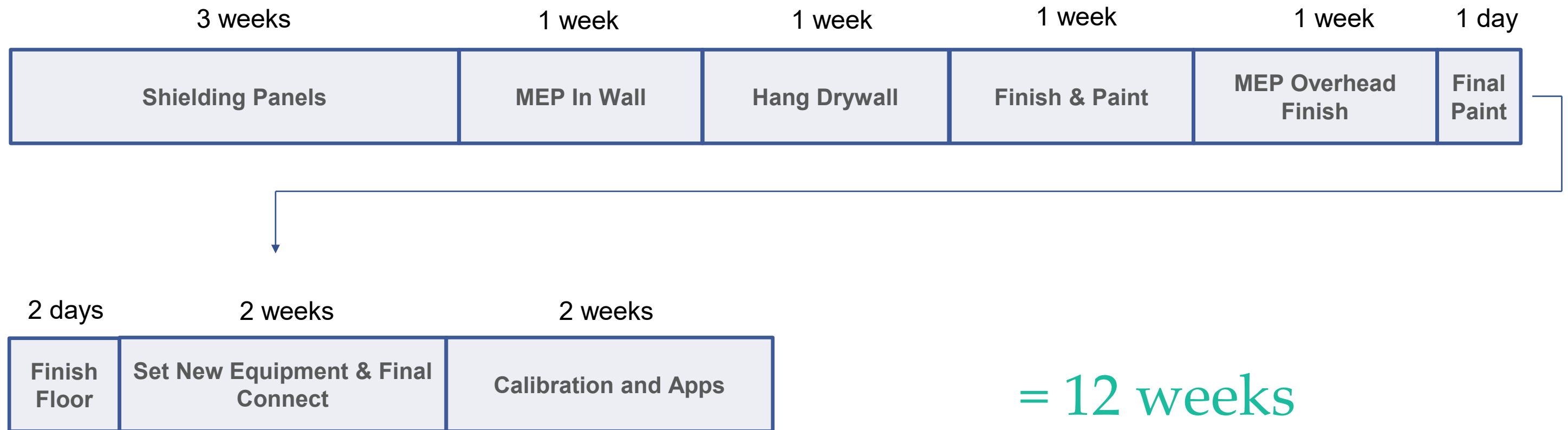
# Seeing Results



# Do

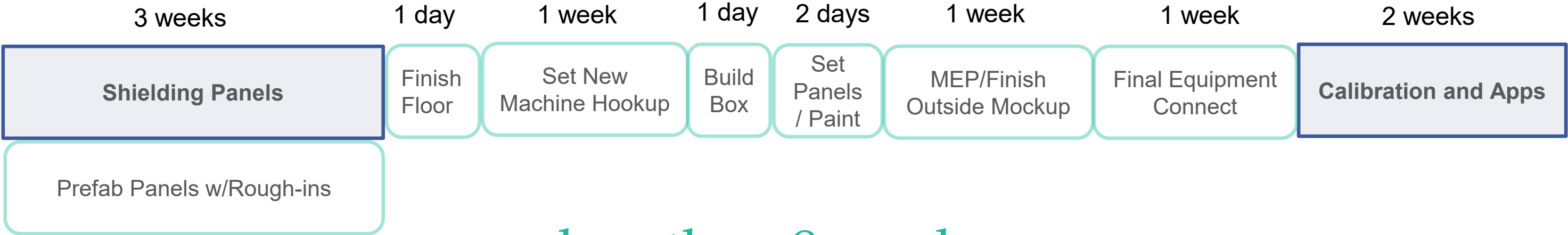
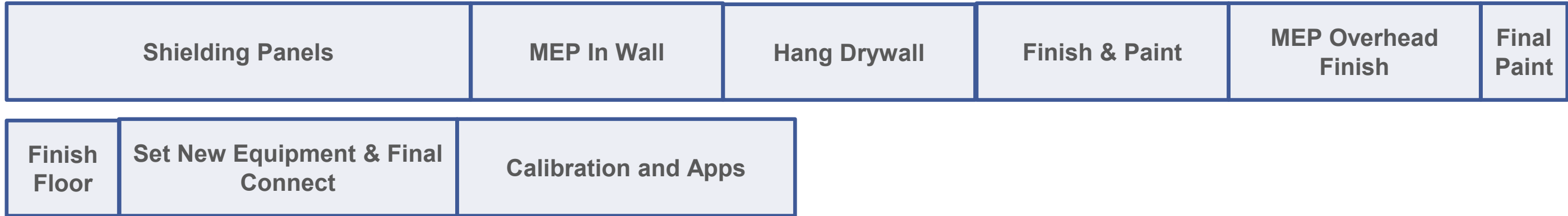


# Typical Reno vs. Prefab Schedule





# Typical Reno vs. Prefab Schedule



= less than 9 weeks



# What we've learned



# Key Takeaways

- Infection control
- Schedule
- Waste Management
- Communication / Buy-in
- Quality
- Client value

Even without significant construction savings, **the client's lost revenue was reduced by 30%**





# What to ask yourself

- What are the scheduling challenges?
- Does your client have such limited resources that construction would disrupt services?
- Is there an issue with downtime, equipment and/or revenue?
- Is it a controlled space where the number of people and materials need to be limited?
- How could the project affect the patient/end-user experience?



# Contact Us

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**Thank you for attending this presentation. Enjoy the rest of the 22<sup>nd</sup> Annual LCI Congress!**