



Loma Linda University Health, November 2020 Campus Transformation Project Update

Project Drivers

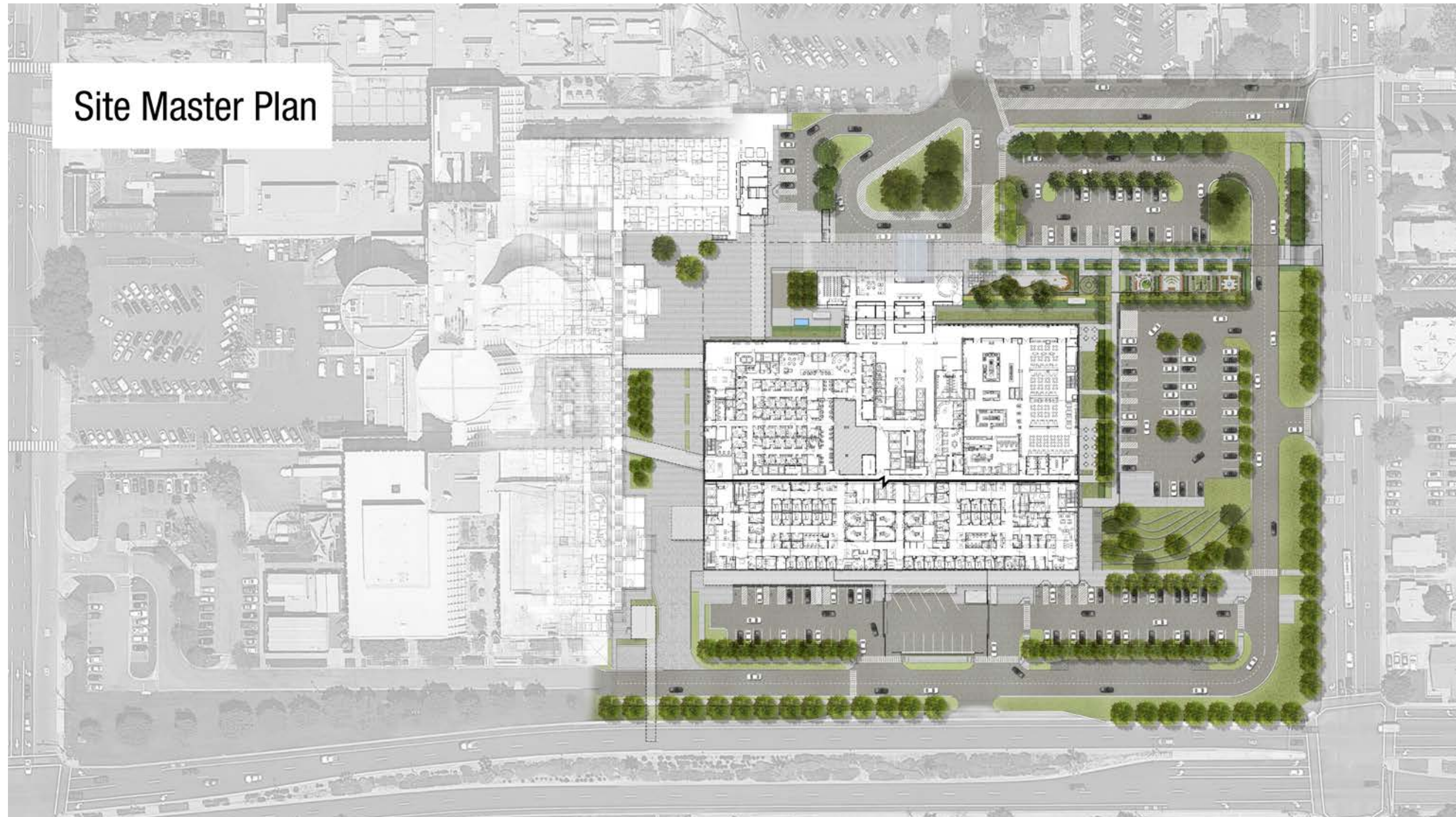
- SB 1953 and SB 90
 - Seismic Compliance
- LLUH Growth
 - Expanded Services
 - Re-Purposing of Existing Cloverleaf Towers

Project Scope

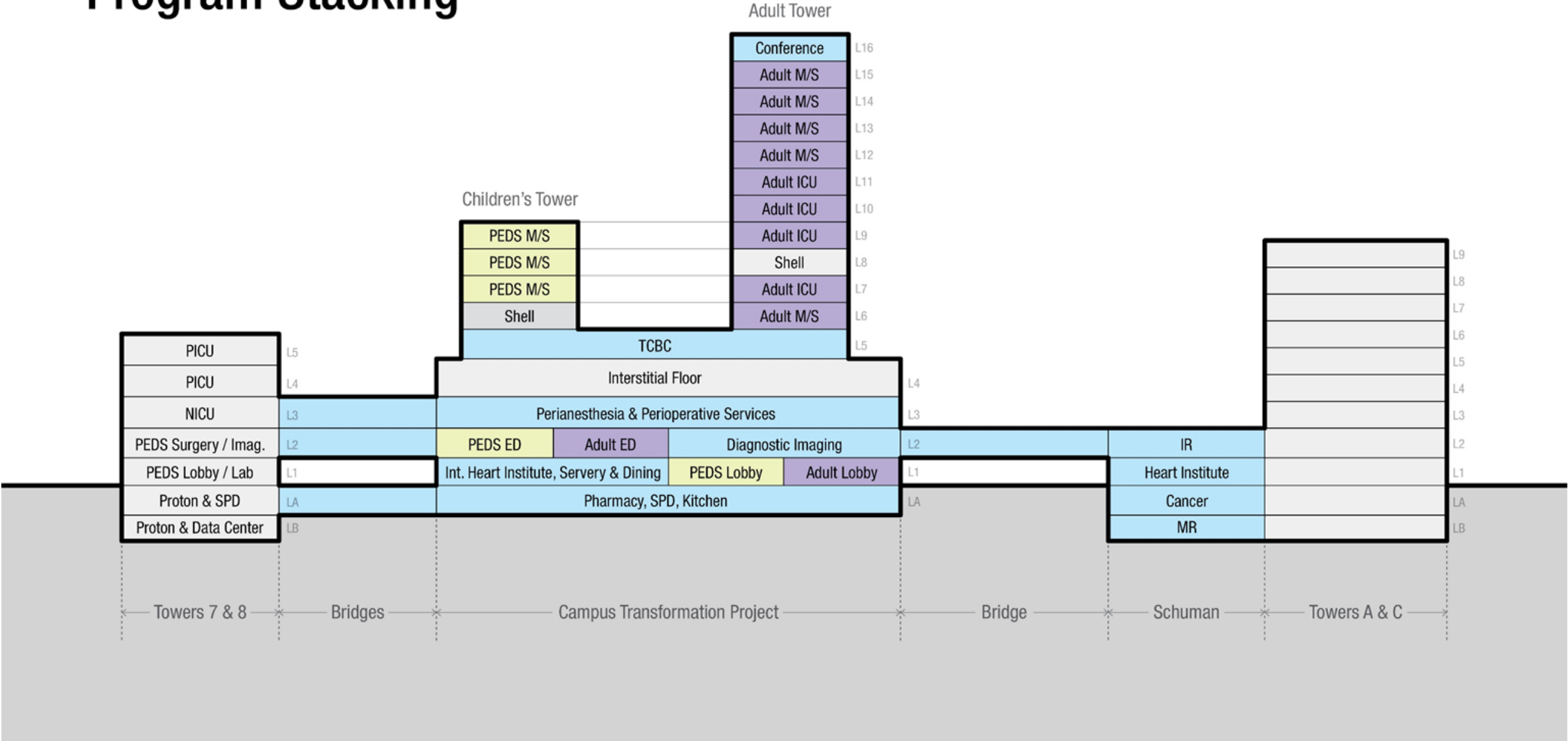
- Building:
 - 1 Million Square Feet
 - Base Isolated
 - 268 ft. tall (Current MC is 156 ft.)
 - Combination Brace Frame Moment Frame Structure
- Program
 - All Private Beds
 - Separate Adult and Pediatric Bed Towers

Project Scope Continued...

- Program Continued...
 - Diagnostic and Treatment Podium
 - Separate Adult and CH Emergency Departments
 - Expanded and Updated Imaging Services
 - Expanded and Updated Total Care Birth Center
 - Expanded and Updated Perioperative Services (20 New ORs)
 - Expanded Cardiac Services



Program Stacking

















CURRENT STATUS UPDATE

Ongoing Construction Activities

- TI activities levels A-16:
 - Production drywall, taping and first coat paint is substantially complete through Level 15. Final patch and pain is underway at levels 2, 5, 6 and 7.
 - Ceiling grid installed through Level 15
 - Flooring is in progress through Level 15
 - Casework on site through Level 15
 - Doors have been hung through level 9
- H projects:
 - Generators: Generators and enclosures in place. Electrical equipment is being installed in switchgear building. Site work ongoing. Start up to being late August/early Sept.
 - Galleria/entrance lobby: Exterior skin nearing completion. Interior framing and drywall, MEP is ongoing. Radiant floor placed.
 - Bridge connections:
 - » Schuman addition bridge: Interior framing, production drywall and elevator installation is ongoing
 - » CH connector: Bench and soffit drywall in progress. Level three extension is nearing exterior skin install.

GENERAL STATUS UPDATE

Upcoming Milestones

- Production Flooring Completion: Nearing completion
- Elevator Installation Completion: October
- Final Production Painting Completion: September
- HVAC Test and Balance Completion: 11/23/20
- Estimated Substantial Completion Date: 12/23/20

Site



Canopy Installation in Progress



Entrance Trellis



Pedestrian Walkway



East Amphitheater



Emergency Dept. Sitework Underway





Loading Dock



Moat Level

Moat space
between the
building and
Permanent Shoring



Typical Isolator



Typical Damper



Level A

Autopsy



SPD Clean Storage





Adult Kitchen



Adult Kitchen



Level 1

Lobby, Cafeteria, Peds Diagnostics and Adult Cardiology





Main Lobby Security





Pediatric Cath Lab



Level 2

Emergency Department and Radiology



CT Scan





MRI Install



MRI



Trauma Room



ED Exam Rooms





Emergency Department Nurse's Station



Level 3

Operating Rooms and Perioperative Services

Typical Operating Room Boom Installation



Hybrid OR



PACU





South OR Corridor





Floor 3 OR Men's Locker Room



Level 4

Mechanical Interstitial Space



Typical Air Handler (26 on 4th floor)





4th Floor Utility Infrastructure



Level 5

Maternity Services

Floor 5 Corridor



5th Floor Postpartum Pt Room Clinician Space & Counter





Well Baby Nursery





Floor 5 C-Section OR



Floor 5 Infant Resuscitation



Nursing Towers



Children's Hospital Patient Floor Check-in



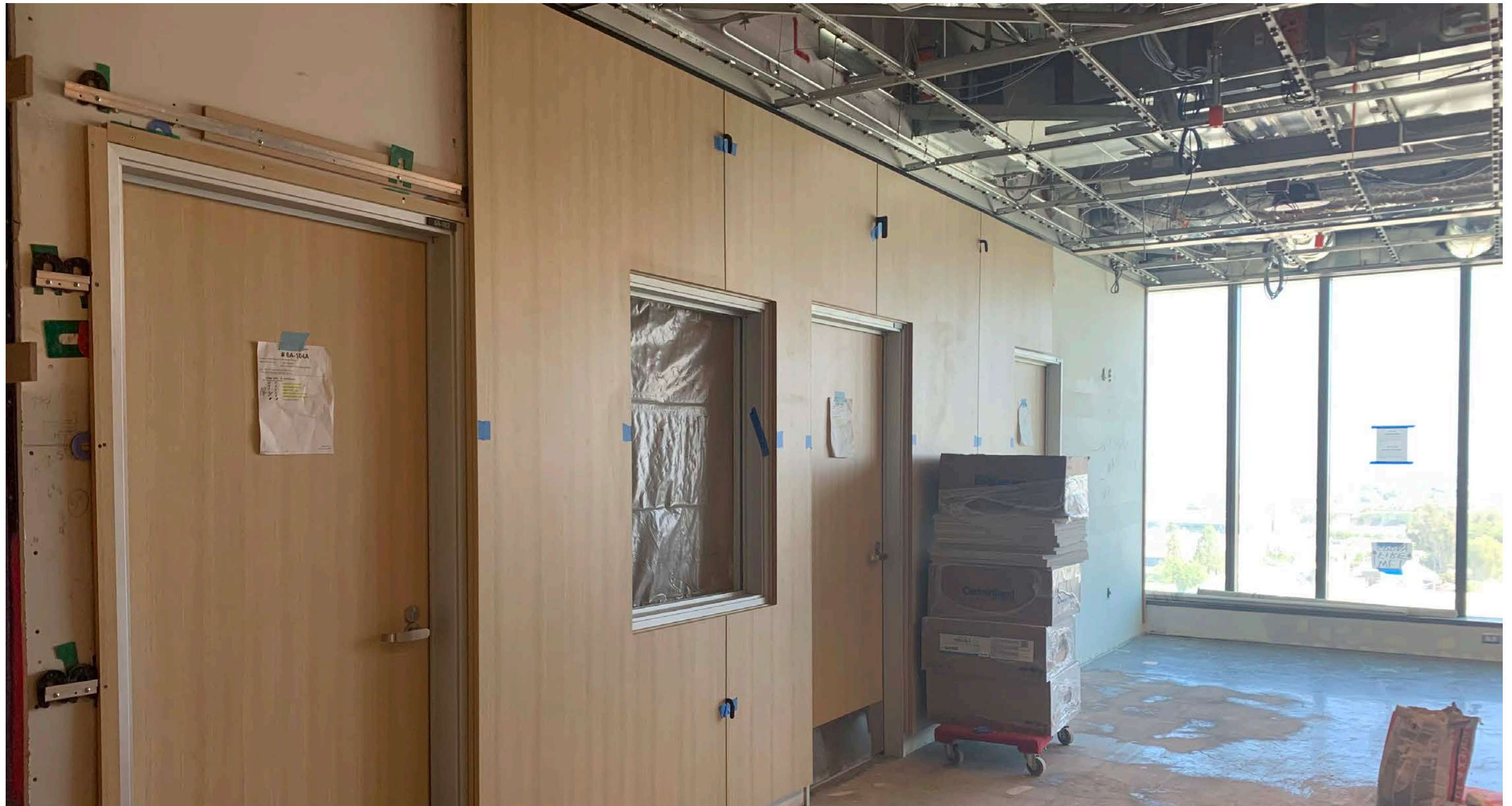
Adult Inpatient Unit Corridor



6th Floor Pt Room Headwall









Footwall



Elevator Finishes



16th Floor

Conference Room



Helistop



Seismic Design

Seismic Design

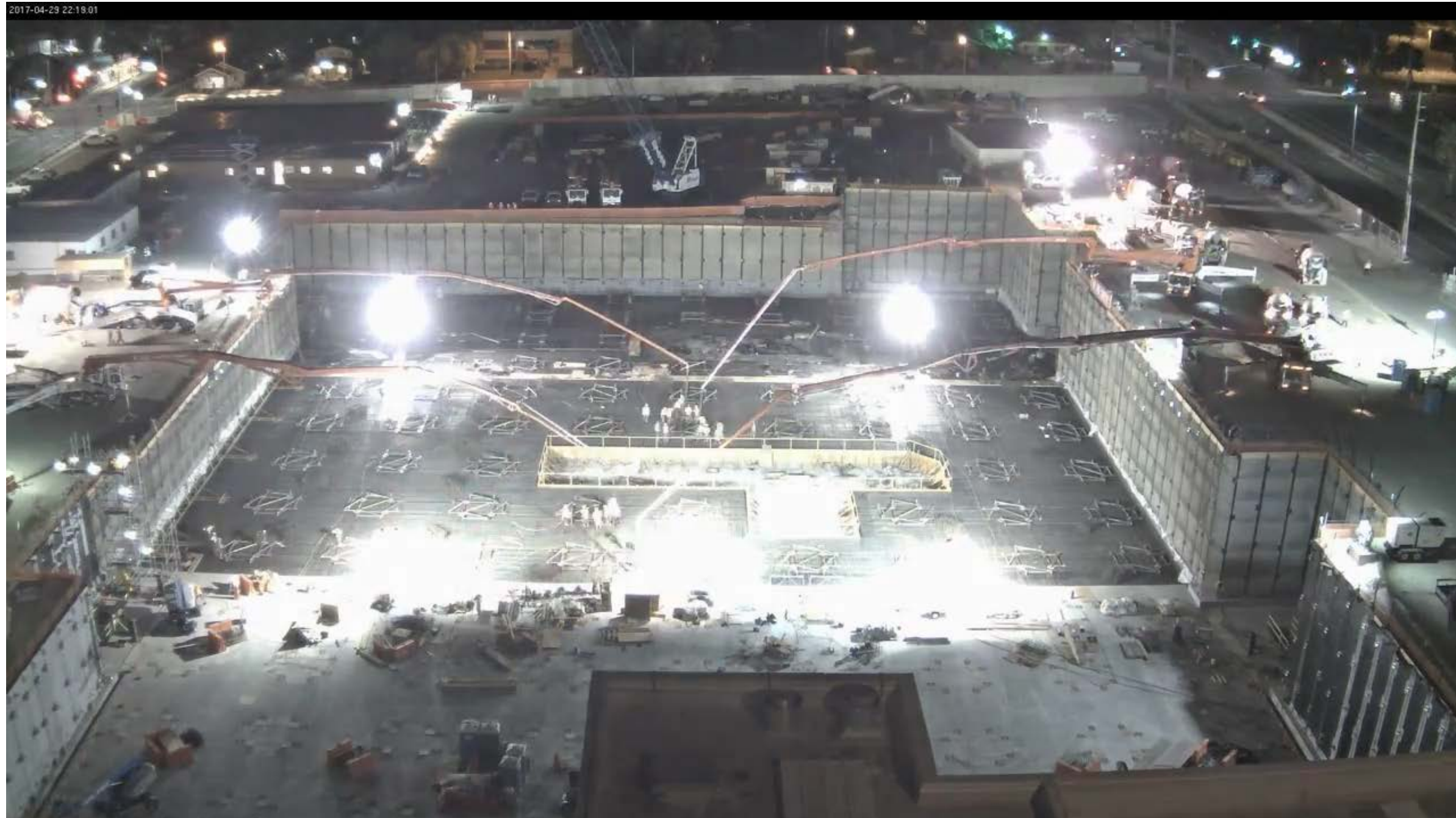
➤ Structural

- Base Isolated (Triple Pendulum Bearing Isolators).
 - 126 Base Isolators, Steel Pedestals
- 28,000 Tons of Steel

➤ Non-Structural Design

- Greater than 72 hours of complete self sustaining functionality
 - Water Tanks
 - Food Storage
 - Power – 4 2.5 KW Emergency Generators
 - Waste Tanks
 - Fire Water Tanks

MILESTONES



April 29, 2017
Mat Slab Pour No. 2



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Preparing Isolators for Grouting

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Grouting Pedestals to the Slab

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Type 7 Pedestal Fabrication in Wisconsin Shop

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Shop Tour Phoenix, AZ (Super Node)

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Pre-Assembly

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Node Placement

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Node Placement

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A Level Erection

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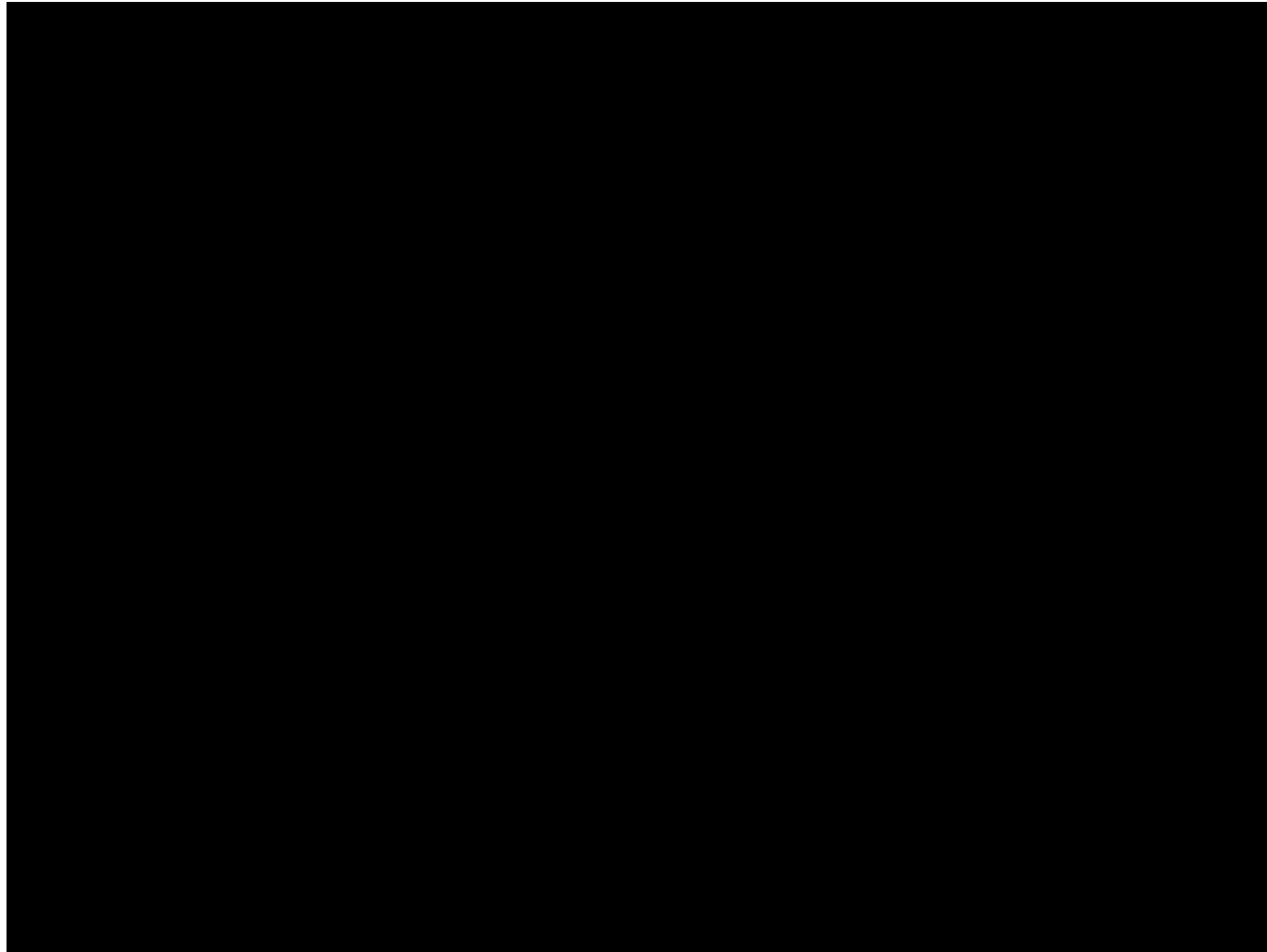
A Level Erection

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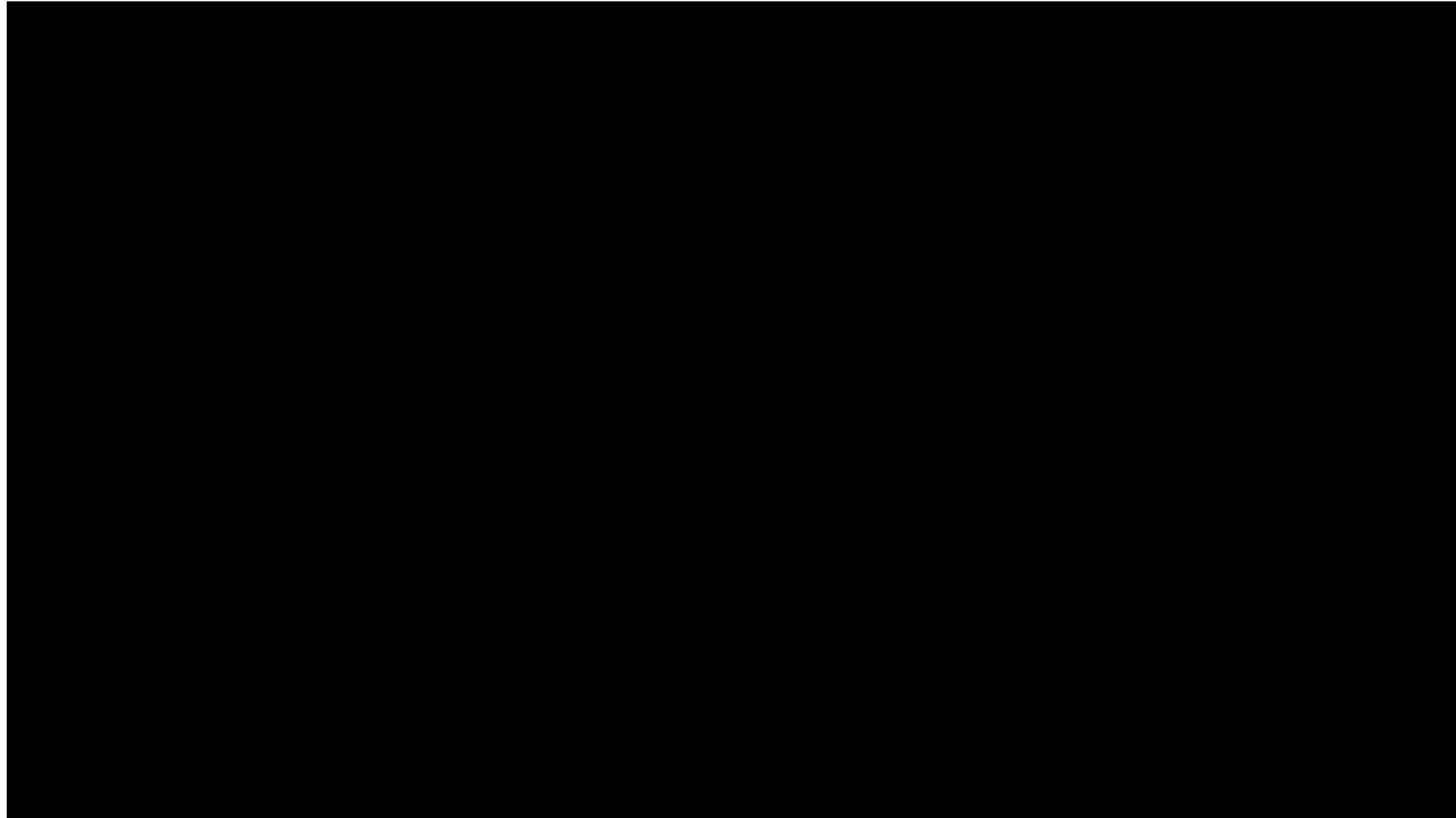
Base Isolation Simulation

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Shake Table Simulation TPB Isolators

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Fixed Base vs. Base Isolation