



APPLIED RESEARCH BUILDING

DATE: 12/06/21-12/12/21

PHASE: **Project Overview**



Facing North View



Facing South View



McCarthy + SmithGroup
ARB Design Build Team

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PHASE: Shoring and Decking



East Level 2 Deck Stripped



High-Bay (40') Shoring Towers Being Set

Fun Fact:

Deck Stripping is removing plywood (form-work) after the concrete has cured. The construction team worked strategically on placing the plywood to deliver a consistent pattern, as shown in the top photo, each line is the edge of the form-work plywood.

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PHASE: Pouring Concrete



Pumping Concrete to Pour L2 Columns



Pouring L2 Columns Using Concrete Bucket

Fun Fact:

The Concrete Pump is utilized to get concrete to a higher point. These pumps are costly and must be planned out. A more cost efficient way of pouring concrete from an elevated level is the concrete bucket. Utilizing the crane, we can pour concrete as shown in the bottom photo. The concrete cannot free fall from a distance greater than 4' or the aggregates will separate from the mix. Therefore, the extension tube is used as a funnel on the bottom of the bucket.



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PHASE: SOG Grind



Level 1 Initial Grind and Mock-up of Stain Stripes



Forming and Pouring Level 2 Columns

Fun Fact:

The majority of ARB's floor is exposed concrete. In order to protect it from any stains or chips, a product called Ardex is used to seal the concrete after its initial grind. Ardex will be removed during the final grind process after the building is completed.

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PHASE: Mechanical, Electrical & Plumbing



Electrical Protection



Mechanical Duct Risers Stub-ups

Fun Fact:

The red boxes are prefabricated to be placed over the electric stub-ups, protecting the conduits. Painting them red increases their visibility, potentially avoiding them from becoming a tripping hazard.



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PHASE: **What's next?!?**

**COMING
SOON**

- Structural Steel.
- Level 3 Shoring
- Interior and Exterior Priority Wall Framing.
- Level 3 Decking and Sheeting.
- Level 3 Reinforcing
- Level 3 Deck Plumbing and Mechanical Rough-In.
- Architectural Building Mock up.
- Equipment Pads.
- Level 3 Vertical pours.
- Level 4 Shoring



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