

DATE: 02/14/22-02/20/22

PHASE: Project Overview



Facing North View



Facing South View





DATE: 02/14/22-02/20/22

PHASE: Structural



Welding Large Scale Testing Lab Crane Steel



Large Scale Testing Lab Crane Steel Beam Connection

Fun Fact:

The large scale testing lab steel beam must have a moment weld. A moment connection/weld is a rigid connection to stop any rotation and must be welded from the top and bottom of the flange to transmit full strength to the column.



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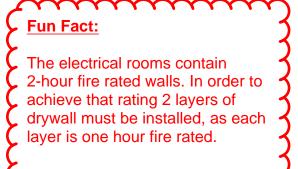
PHASE: Interior Finish



Level-1 Electrical Room Sheeted and taped



Level-1 Wall Vapor Barrier







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PHASE: Interior Framing



Level-2 Interior Walls Framing



Level-2 Framing Track



- · Framers install the track for the
- MEP trades to layout their
- necessary openings to be
- framed as shown in the bottom
- picture. Because of the exposed
- flooring in this building, the
- trades write their layout on the
- bottom track where they need it
- with elevation and size.



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PHASE: Concrete



Level 4 South Slab Decking



Level 4 North Slab Decking



The shoring system used at
ARB is called Atlas Al-Speed.
It is a group of A frame
towers, where each tower
contains 4 sides to support
the decking process and
concrete pour until the
concrete is cured to the
desired strength.



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PHASE: Form-Work



Stringer curved beam edge



Fun Fact: After the shoring system

is set in place, the stringers (large aluminum I beam with curved edges) are placed on the frame. Then the I beams (usually smaller in size) sit on top of the stringers to support the plywood sheeting.



Level 4 Decking



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PHASE: Mechanical, Electrical & Plumbing



Overhead Mechanical, Electrical & Plumbing Utilities



Overhead Utilities

Fun Fact: Plumbing and mechanical duct require insulation. Usually the supply mechanical duct will need to be insulated to maintain temperature and any hot water running in pipes will need to be insulated to maintain temperature and/or to protect user from hot surface.





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PHASE: What's next?!?



- Structural Steel.
- Level 4 Shoring.
- Level 4 Concrete Pour.
- Architectural Building Mock up.
- Level 2 Re-shoring.
- Level 1 In wall electrical and plumbing.
- Level 4 Mechanical Room Steel
- Main Equipment Pads.



