



# APPLIED RESEARCH BUILDING

DATE: **02/21/22-02/27/22**

PHASE: **Project Overview**



**Facing North View**



**Facing South View**



**McCarthy + SmithGroup**  
ARB Design Build Team

# APPLIED RESEARCH BUILDING

DATE: 02/21/22-02/27/22

PHASE: Exterior



Exterior Insulation



Exterior Sheeting

### Fun Fact:

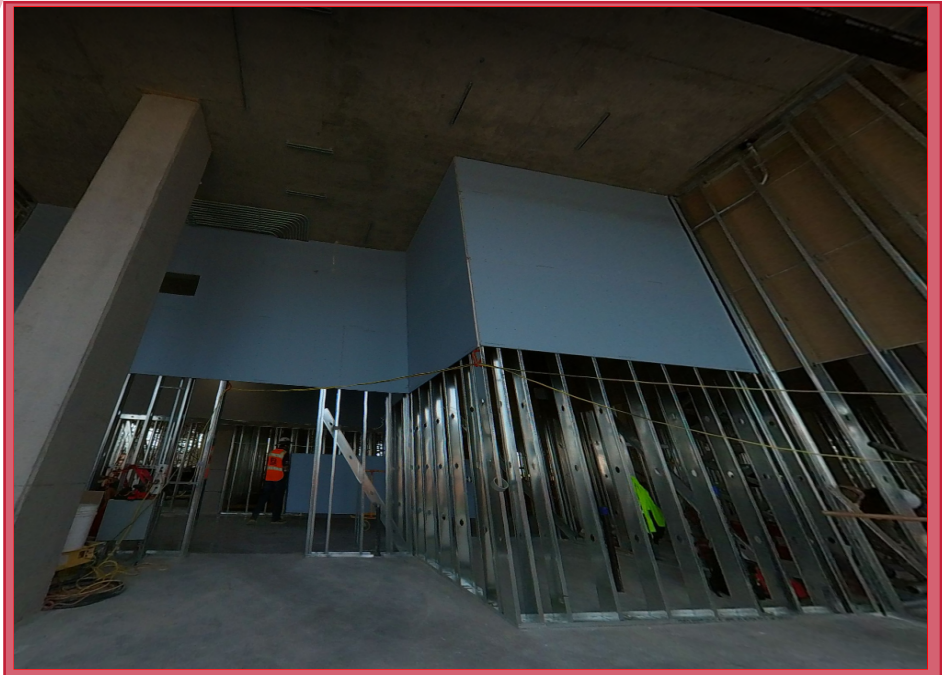
All exterior walls will have insulation to seal the building from the outside temperature and moisture resistant drywall (yellow “DensGlass”) that will get coated with a water proofing layer to protect and seal the building from moisture.



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DATE: **02/21/22-02/27/22**

PHASE: **Interior Finish**



Meteorite Lab



Level-2 Sheeting



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DATE: 02/21/22-02/27/22

PHASE: Interior Framing



Level-2 Interior Walls Framing



Level-2 High-bay Interior Framing

### Fun Fact:

The second floor will consist of office spaces, mission operations, laboratories and a large open glass area to view spaces on the first floor where the Thermal Vacuum Chamber (T-Vac), Antechamber and Anechoic Chamber are located. The see-through steel structure grating mezzanine walkway around the T-Vac will also be visible from Level 2.

# APPLIED RESEARCH BUILDING

DATE: 02/21/22-02/27/22

PHASE: Concrete



Level 3 Ceiling Patching



Level 4 Deck Stripping

### **Fun Fact:**

As a final step to delivering an architecturally acceptable concrete finish, a patching crew is assigned to go back and sand any areas where concrete has leaked through the form-work and patch, fill or touch up chipped concrete areas. The requirements for the acceptable exposed "architectural" concrete finish were developed by SmithGroup and McCarthy during the design phase of the project.



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PHASE: **Mock-Up**



Building Mock-up

**Fun Fact:**

The mock-up is mainly focused on the exterior finish of the building and will demonstrate the detailing transitions between different skin systems (i.e. concrete masonry units “CMU” veneer, brick, metal panels and glazing) and to allow for 3rd party testing of these systems to ensure the building is weather-tight.

# APPLIED RESEARCH BUILDING

DATE: 02/21/22-02/27/22

PHASE: Mechanical, Electrical & Plumbing



Level 2 Overhead Electrical and Sprinkler Lines



Level-4 MEP Blockout

### Fun Fact:

Structural steel mechanical rooms will occupy approximately 50% of the roof level. The equipment in the mechanical rooms will require more blockouts and sleeves for the concrete pour than any other level of the building.



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



- **Structural Steel.**
- **Exterior Waterproofing.**
- **Level 4 Concrete Pour.**
- **Architectural Building Mock up Completion.**
- **Level 3 Re-shoring.**
- **Level 1 In wall electrical and plumbing.**
- **Level 1 production walls.**
- **Level 4 Mechanical Room Steel**
- **Main Equipment Pads.**



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