



APPLIED RESEARCH BUILDING

DATE: **03/28/22-04/10/22**

PHASE: **Project Overview**



Facing North View



Facing South View



McCarthy + SmithGroup
ARB Design Build Team

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DATE: **03/28/22-04/10/22**

PHASE: **Mock-Up**



Exterior Elevation of Mock-Up



Mock-Up Testing

Fun Fact:

The Mock-Up underwent water penetration field testing (ASTM E 1105) this week. First, an air chamber that lowers the air pressure, creating a vacuum is placed on the inside of the Mock-Up. Then water is evenly sprayed against the exterior for 15 minutes. The air chamber tries to suck water through the seal. The mock-up assembly remained water tight for all 15-minutes after our first round of testing! A notable success!

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DATE: **03/28/22-04/10/22**

PHASE: **Structural Steel**

Fun Fact:

The steel top out celebration was a success! Thank you to all of those who were able to attend this exciting construction milestone! We are so happy and excited to continue to celebrate these great accomplishments throughout this buildings construction!



Topping Out Beam Dry-fitting



Steel Top Out Celebration



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DATE: 03/28/22-04/10/22

PHASE: Concrete



Concrete Pump Truck



Level 4 - Pouring Equipment Pads

Fun Fact:

A flexible hose attachment is fastened to the end of the concrete pump which allows the pump to service the concrete finishing crews under the completed structural steel penthouse. In order to provide concrete to areas that aren't accessible by the pump (ex. Levels 1-3), a Georgia Buggy, a motorized concrete transport vehicle delivers the concrete safely throughout the building. They even fit through door frames!



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PHASE: **Employee Highlight: Crane Operator**



View from Crane



Tower Crane Op - Brendan Lile

Employee Highlight - Brendan Lile - Tower Crane Operator

Q: How did you decide to become a tower crane operator?

A: Prior to becoming an operator, I was in the Marine Corps for (4) years as an Aircraft Recovery Specialist. After returning home, I was recommended by a fellow marine to join the operators union. I instantly found a sense of comfort sitting in the seat of the tower crane managing controls similar to those I would utilize on my recovery missions. I've been operating tower, crawler and hydraulic cranes ever since.

Q. What is your favorite part about being a tower crane operator?

A. Sitting in the seat of a tower crane provides an alternate perspective to the construction process. I enjoy providing my insight and recommendations to the construction management team on best practices for site optimization, production enhancements or potential safety hazards that those not in my seat may not recognize.

Q. What has been your favorite part of the UA ARB Project?

A. Supporting the haul-in, crane setup and placement of the TV Chamber.

Brendan's experience with the planning and successful operation of the equipment set has encouraged him to transition from tower crane operator to crane logistics manager with McCarthy following the completion of the Applied Research Building!



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



- Level 1 Production Walls
- Level 4 Steel Pan Deck Installation
- East Yard Excavations and Concrete Pour
- TV Chamber Stripping
- Equipment Pad Concrete Pours (L1-3)
- Level 3 Floor Grinding
- Kovach Mobilization (Metal Panel Skin)
- Curtainwall Glazing & Skin Steel

- Employee Highlight - Efrain (E&K) Framing



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