



APPLIED RESEARCH BUILDING

DATE: 10/4/21-10/8/21

PHASE: Project Overview



Facing North View



Facing South View



McCarthy + SmithGroup
ARB Design Build Team

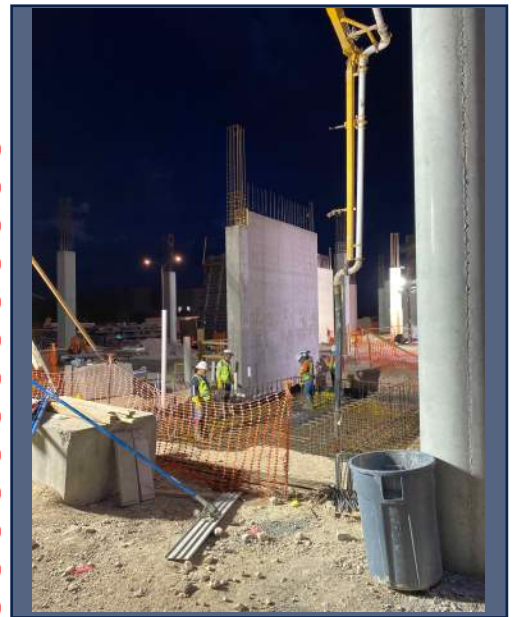
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PHASE: Thermal Vacuum Chamber - Concrete

Fun fact

The massive Thermal Vacuum (TV) Chamber will be transported to the site next month. The delivery will be planned with a professional hauling/rigging company that will coordinate the haul route with the City of Tucson. Precise measurements and pin-point accuracy will be required to perform the operation with quality and safety.



TV Chamber Foundation



TV Chamber walls poured and stripped

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PHASE: Slab on Grade - NW Area



First Slab Poured



First Slab Cured

Fun fact

This first slab on grade concrete pour took over 100 tons of aggregate base course and 60 cubic yards of ready mixed concrete to complete.

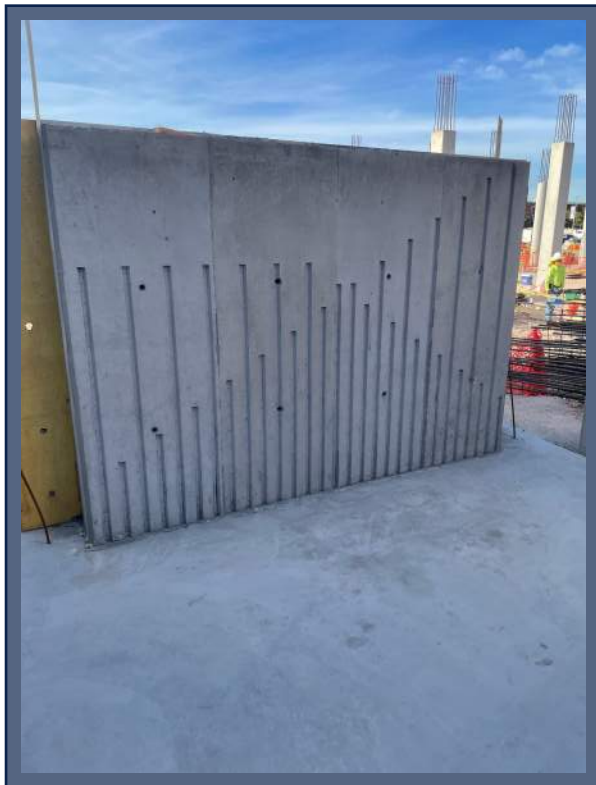
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PHASE: **Mock-Up**



Mock-up of Level 2 Columns



Mock-up of wall reveal

Fun fact

Mock-up slab is about 10'x10' and has full diameter columns and 4' wall to illustrate how the actual walls, slabs and columns in the building will be finished.

Mock-ups are used to show the visual affects of details and finishes before the building is fully constructed

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PHASE: **Underground Utilities**



Communication and Electric Main Building Lines



Underground Utilities Backfill & Chilled Water Line

Fun fact

All conduits that are located under a drive aisle must be concrete encased to ensure the material is protected structurally against any underground pressure from the surface.



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

coming soon!

- Slab on grade floor grind mock-up
- Slab on grade concrete pour
- Level 2 Deck forming and reinforcing.
- Level 2 Deck plumbing rough-ins
- Level 2 Deck electrical lines installation and rough-in.
- Setting the Thermal Vacuum Chamber
- Structural steel stair erection



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