**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.

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TV Chamber Foundation

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TV Chamber walls poured and stripped
## Applied Research Building

**Date:** 10/4/21-10/8/21

**Phase:** Slab on Grade - NW Area

<table>
<thead>
<tr>
<th>Image</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.jpg" alt="Image" /></td>
<td>First Slab Poured</td>
</tr>
<tr>
<td><img src="image2.jpg" alt="Image" /></td>
<td>First Slab Cured</td>
</tr>
</tbody>
</table>

### 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.
**Mock-up**

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.
Underground Utilities

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.

Communication and Electric Main Building Lines

Underground Utilities Backfill & Chilled Water Line
What's next?!?

- 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