ISSUE #20 March 2022

TA LOVING

CONSTRUCTION NEWS & UPDATES
FROM T. A. LOVING COMPANY

UNC SCHOOL OF MEDICINE

ROPER HALL

PROGRESS ON SITE

PROGRESSION SUMMARY

Since our last newsletter edition, tremendous progress has been made at the UNC Roper Hall School of Medicine. We celebrated a major milestone with the topping-out ceremony by early December. This ceremony would signify substantial completion of the building's structural steel. The remaining slab on grade was poured by mid-December, and the final slab on deck pour was made at the penthouse on February 14th. With steel and concrete substantially complete, T. A. Loving and the contractors on site have been working on the next phase, which is building enclosure and interior buildout.

Current Construction Photo (top) and Rendering Comparison (bottom).

Final Concrete Slab Pour at Level 9

PROGRESS ON SITE (continued)

ROOFING BEGINS

Benton Roofing mobilized and began installing the roofing membrane at the 8th floor level on February 7th. The start of the roofing activities onsite marks a crucial milestone in the construction schedule. Working toward 100% completion of the roofing membrane will allow additional activities at the interior of the building to begin, such as drywall and portions of the mechanical and electrical rough-ins that need to stay dry after installation. Crews will continue roofing activities at the 9th level (roof level) beginning February 28th.

Roofing Membrane Installed at Level 8

View From The Top: The view pictured above is from the 8th floor level and facing toward the east

Erection of the 23,000 lb. Precast Panel

PRECAST BEGINS

The first of five finish systems for the exterior of the building has started installation. That finish system is the concrete precast panel system. The precast panels arrived on site and immediately began erection on February 15th. The precast erectors made one of the heaviest picks on the first day of erection by lifting and placing a 23,000 lb. panel in place at the southeast end of the building. The precast panels arrive onsite via flatbed truck trailers using Medical Drive to access the job site. During the precast erection, traffic along Medical Drive will be briefly interrupted as trucks make panel deliveries to the project. Please be alert and watch for flaggers along Medical Drive through the end of March 2022.

INTERIOR PROGRESSION

As the building structure goes up, the interior also takes shape. Priority walls have been framed from the lower level through level 6. Priority walls must be installed and even topped out with drywall before installing mechanical and electrical systems. If the sequence gets out of order, some partitions would be inaccessible by the various ductwork and piping conflicts adjacent to the walls. Non-priority walls have been framed through level 3.

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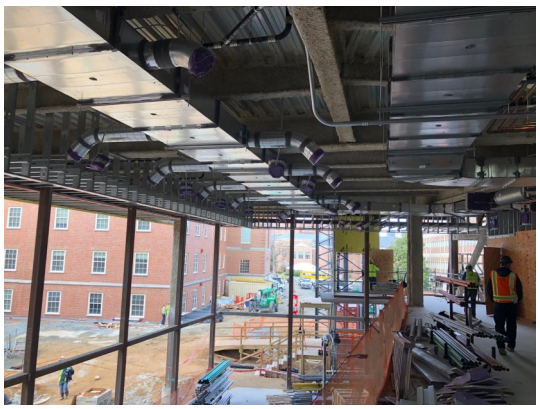
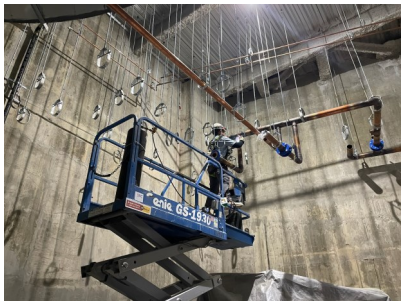


2nd Floor Interior Progression

Follow the construction progress at:
https://app.oxblue.com/open/TAL/

INTERIOR PROGRESSION

The benefit of early BIM coordination on the project can now be seen throughout the building. With the air handling unit set on the lower level, ductwork installation continues through level 4. Mechanical and plumbing piping have been installed from the lower level through level 4. Electrical rough-in began in late January, with conduit and various infrastructure running throughout the lower level and level 1. These systems have been coordinated by location and, in many scenarios, prefabricated offsite then brought to the field for quick and easy installation.

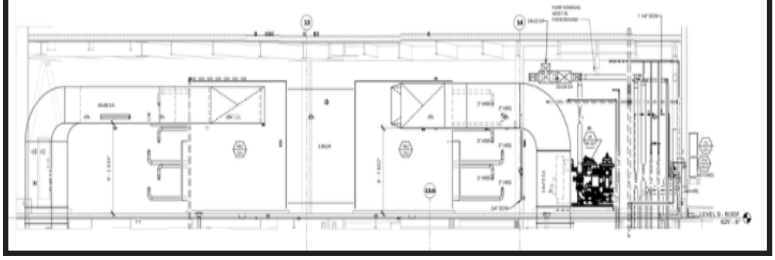


Pictured Above: Active Learning Theater

LEARNING MOMENT

With the balance of concrete poured at Level 9, on February 21st, the heat recovery unit (HRU), with its ancillary equipment, will be set at the Penthouse. The facility's Heat Recovery System is designed to promote renewable energy. In concept, an HRU works to extract thermal energy from exhausted air leaving the building. Instead of constantly heating and cooling fresh air intake at ambient temperatures, the extracted recycled thermal energy is applied to incoming fresh air through a series of coils before being pumped through the building to the main air handling unit. This process will work to "pre-heat" supply air during winter operation and provide pre-cooling/ reheat during summer operation. In total, a heat recovery system will benefit the facility for years to come, saving on energy costs, reducing strain and lengthening the lifespan of mechanical equipment, and empowering a sustainable future.

HRU Schematic at Penthouse



UPCOMING WORK

In the coming weeks and at the exterior of the building, spray foam and air barrier will begin to cover exterior sheathing. Following those activities will be curtain wall glass framing. Terracotta wall panels are slated to arrive in April, along with composite metal wall panels and brick veneers. Utility tie-ins of chilled water, domestic water, and steam lines will be sequenced around exterior finishes to accommodate the building system needs. Backfill at the tunnel between Roper Hall and Brinkhous Bulliet will resume on February 21st and resume for approximately three weeks. Vibrations may be felt by neighboring buildings during the backfill efforts. The interior of the building will continue to take shape. Overhead and in-wall mechanical, electrical, and plumbing rough-ins will be followed by a series of inspections. As the construction of the building nears dry-in, interior drywall will advance further, and the balance of finishes will begin installation. The team on-site is determined and focused as we approach upcoming milestones, building on previous success to deliver this exciting project.