

Manhattan College

HVAC Construction

Education



THE OPPORTUNITY

Manhattan College is undergoing a South Campus transformation. This is a new 30,000 square-foot building for the new Higgins Engineering and Science Center. The new building, attaching to the current Engineering Building, Leo Hall, will contain 14 ultramodern labs, needing best in class HVAC equipment.

THE PROJECT

The new building needed (2) cooling towers and (4) air handling units. Due to the size of the building and use, the project became complex with the need for a strategic rigging order and a ground stability report that was required for the crane.

Two of the four air handling units came in eight pieces which were lowered through an opening in the roof. From there, they were skated into place on the equipment pad so the next piece could be lowered.

Donnelly Mechanical used BIM (Building Information Modeling) to help expose and fix conflicts before the rig and installation began. Donnelly expertly coordinated all trades for this rig.

THE OUTCOME

Set to open for Fall 2020 classes, tight deadlines and a changing scope of work made this project a challenging one, but not impossible. With over 20 on site for the unit rigging we wanted to ensure perfection for the new Higgins Engineering and Science Center.

Project Role

- Construction

Technical Scope

- 30,000 sq. ft. new three-story academic building
- 2 Cooling Towers
- 4 Air Handling Units
- Use of BIM to avoid conflicts

Challenges

- Underground stability report needed to be completed prior to rig
- Oversized Air Handling Units required additional permits
- Roads had to be cleared to accommodate the large size of trailers

