

Airport Terminal Improvements

Owner

A Major US City's Department of Aviation

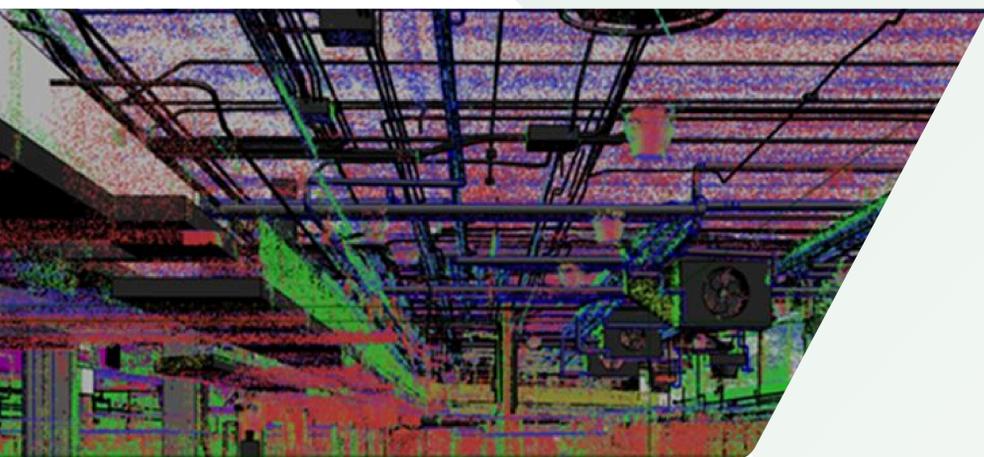
Location

IL, United States

Year

2024

This modernization project, a key part of the a major US city's transforming airport, involves a three-story expansion. To ensure efficient and seamless integration of the proposed design with the existing infrastructure, the Fractile team was selected to provide a laser scan and 3D models of the current building systems. This encompassed the construction of a new bag sorting area and airline club lounge, the relocation and addition of baggage claim carousels and security checkpoints, and the renovation of restrooms, mezzanine space, and a portion of the mechanical penthouse.



Fractile modeled the existing, complex MEP infrastructure within a 300,000 square-foot area of airport Terminal this by converting point cloud data from laser scans into Revit models. This proactive approach aims to identify potential conflicts between the existing conditions and the proposed modernization, where the integration of new building systems with the outdated and congested overhead mechanical, electrical, and plumbing requires an accurate basis-of-design model.

This project highlighted our proficiency in navigating a time-sensitive and restricted environment by accurately aligning and integrating substantial point clouds with various stakeholders' Revit models, all while leveraging the ACC platform for standardized and clear information sharing. Fractile's conversion of point cloud data into Revit models delivered significant value to the Customer, empowering them to effectively connect existing conditions with new design data and proactively identify potential conflicts.

