



## MEP MODELLING FOR HOSPITAL PROJECT

### About Our Client

The client is a leading North American company specializing in Mechanical Contracting & Services. They have been serving the commercial, industrial, residential, and institutional markets for 50 years, providing essential services to ensure life safety and comfort. Their primary offerings comprise HVAC installation, HVAC service, maintenance, inspections, plumbing installation, and services.

### Scope / Challenge

The project at hand required the development of FAB MEP Equipment Models, careful equipment selection, and coordination of Mechanical Services, Electrical Services, and PHE Services. One of the major challenges of this project was achieving accurate Spatial Coordination to ensure that all components of the system could function effectively without interfering with one another.

Additionally, the scope of work included producing Shop drawings that met the project requirements and standards. However, this posed a significant challenge due to the need for a high level of accuracy and attention to detail, while ensuring that the drawings were completed within the given timeline.

Moreover, the project involved coordinating with other services for feedback and approvals. This required efficient communication, collaboration, and timely responses from all parties involved to ensure that the project was completed successfully within the given constraints.

Overall, the impact of these challenges on the project cannot be understated as they could result in additional costs, delays, and compromise the quality of work delivered.





## Solution

TAAL Tech embarked upon this project starting with a comprehensive study of the architecture and structural drawings, as well as MEP design drawings, to develop a thorough understanding of the requirements. The team used FAB MEP software to model the various mechanical, plumbing, and electrical components for each floor of the hospital, which required a high degree of technical expertise and precision.

One of the major technical challenges was coordinating each of the MEP disciplines along with the structural and architectural teams at the client's location. This involved regular communication and collaboration to ensure that all components were integrated effectively without interfering with one another, while also adhering to the client's standards and requirements.

The impact delivered by the team was significant, as they were able to deliver accurate and detailed models of the MEP components that met the client's specifications. The use of FAB MEP software allowed for a streamlined process, reducing the time and effort required for manual modeling, while also enhancing accuracy and efficiency.

The production of shop drawings with all construction details was another key aspect of the project, and the team ensured that these drawings were delivered promptly and met all relevant standards and guidelines. This allowed for the efficient installation of the MEP components, minimizing the risk of errors and ensuring that the project was completed on time and within budget.

## Results Delivered

With TAAL Tech's prompt ramp-up and execution methodology, the customer was able to accelerate construction activities. The output delivered by TAAL Tech was of high quality that it did not require any further modifications during the installation phase, saving time and costs. This exemplifies the value of efficient collaboration and technical expertise in achieving optimal project outcomes. The impact delivered was significant, with the hospital benefiting from a modern, efficient, and reliable MEP system that will support its operations for years to come.



## About TAAL Tech

TAAL Tech is a niche Engineering and Technology solutions provider serving global corporations in their pursuit for faster innovation. Our vision is to be a leader in providing innovative, high value engineering & technology services to global corporations. Meet our team and learn more about us.

