



MECHANICAL SERVICES FOR UNIVERSITY BUILDINGS

About Our Client

The customer is a highly regarded consulting engineering and commissioning firm based in North America. They are widely recognized for their exceptional leadership in the industry, having established next-generation mechanical, electrical, plumbing, and technology engineering practices for both new and retrofit construction projects.

Their engineering services are renowned for being innovative and forward-thinking, as they employ cutting-edge technologies and methodologies to provide efficient and sustainable solutions to their clients. They specialize in a wide range of services, including design engineering, construction administration, energy modelling, and building commissioning, to name a few.

Scope / Challenge

The project involved designing the plumbing system, which included routing and sizing of pipes for drainage and water supply, all in accordance with the required industry standards. The modeling of plumbing systems was also part of the scope of work, which required a high level of technical expertise to ensure that all the components were accurately represented in the model.

One of the primary technical challenges faced was coordinating with other MEP services, including electrical and mechanical, to ensure that all components were properly integrated and did not interfere with each other.

Another significant challenge was the creation of DD set drawings, which required meticulous attention to detail to ensure that all the plumbing systems were accurately depicted in the drawings. Additionally, the creation of CD set drawings for both the university admin building and natatorium required the team to adhere to strict guidelines and standards, which added further complexity to the project.





Solution

The TAAL Tech team conducted a thorough analysis of the architectural and structural drawings in order to prepare the design drawings for the DD set approvals. The team utilized Autodesk Revit software to develop the design drawings with precision and accuracy.

Upon obtaining the necessary approvals, the team began the modeling process and coordinated with all other services involved in the project, including mechanical, electrical, and plumbing services. This was a critical phase, requiring the team to navigate various technical and logistical challenges to ensure that all components were accurately integrated and aligned with the project requirements.

The finalized models were then shared with the clients for their review and feedback. Upon receipt of the approvals, the team moved on to produce the shop drawings with meticulous attention to detail and accuracy. These drawings included all construction details and specifications necessary for installation purposes, ensuring a smooth and efficient construction process.

Throughout the project, the TAAL Tech team utilized their technical expertise and knowledge of advanced software tools to navigate complex design and construction challenges.

Results Delivered

The TAAL Tech team provided the customer with prompt support, enabling them to accelerate their construction activities. Through the application of rigorous quality control measures, the team ensured that all work adhered to the highest standards of accuracy and precision. As a result, the customer received exceptional value, with the output produced by TAAL Tech meeting all required specifications without the need for any further modifications during installation.



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.

