

Elementary School

CASE STUDY



PROJECT OVERVIEW

This case study explores the implementation of Building Information Modeling (BIM) in a complex construction project of a school. The project aimed to leverage BIM to enhance collaboration, reduce errors, optimize construction workflows, and improve overall project delivery. The case study highlights the successful integration of BIM into different stages, from design and planning to construction.

Client: Department of Central Services

Location: Manitoba, Canada

Description: Institutional

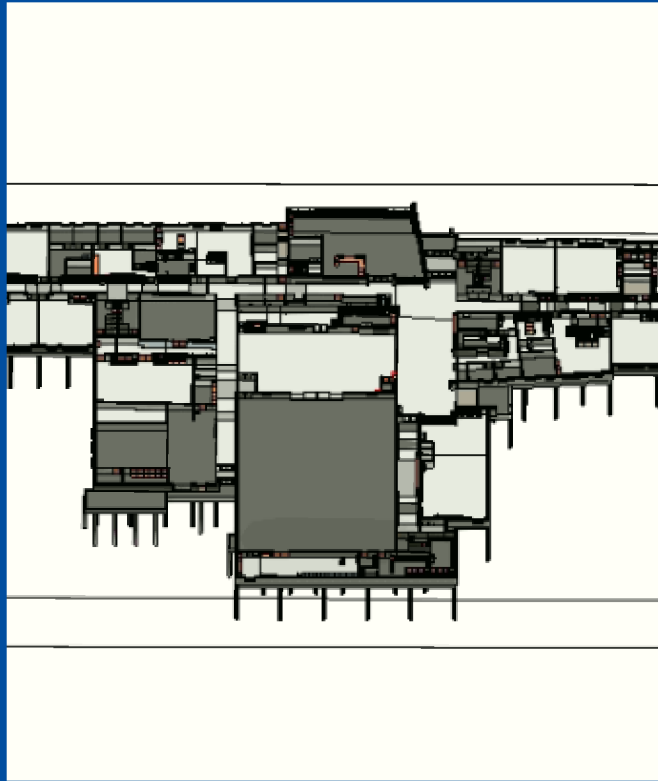
Area: 60,000 sq.ft.

Disciplines: ASI and MEP

SCOPE & DELIVERABLES

- Development of LOD 300 BIM Model.
- Creation of Permit drawing sets.
- Creation of Construction Document Sets.
- Weekly Coordination Meetings
- MEP Services Coordination.



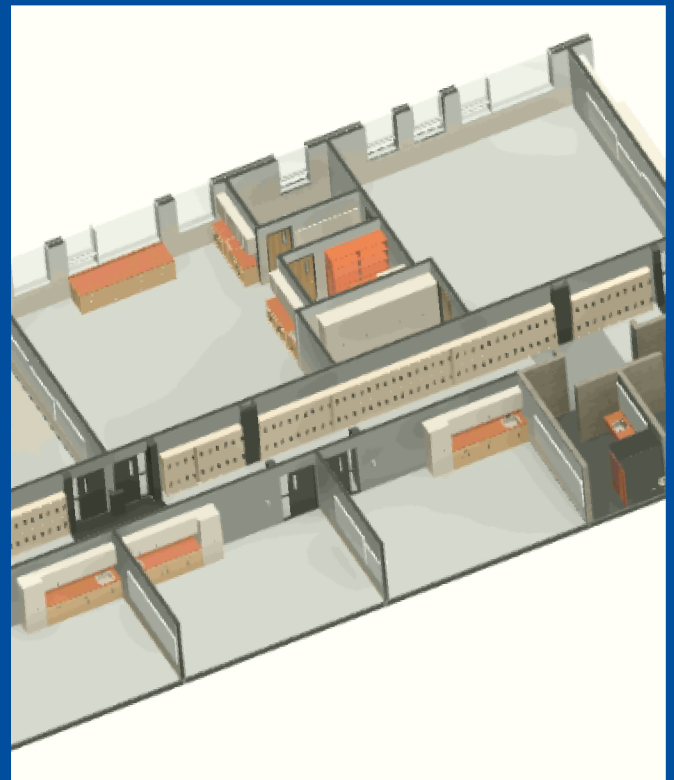


BENEFITS

- Improved collaboration among stakeholders
- Reduced design conflicts and construction errors
- Enhanced project visualization and planning
- Streamlined management processes
- Optimized resource utilization and management

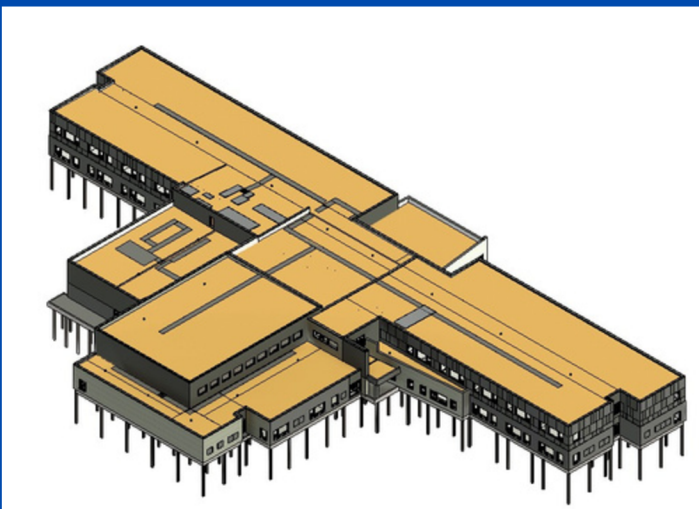
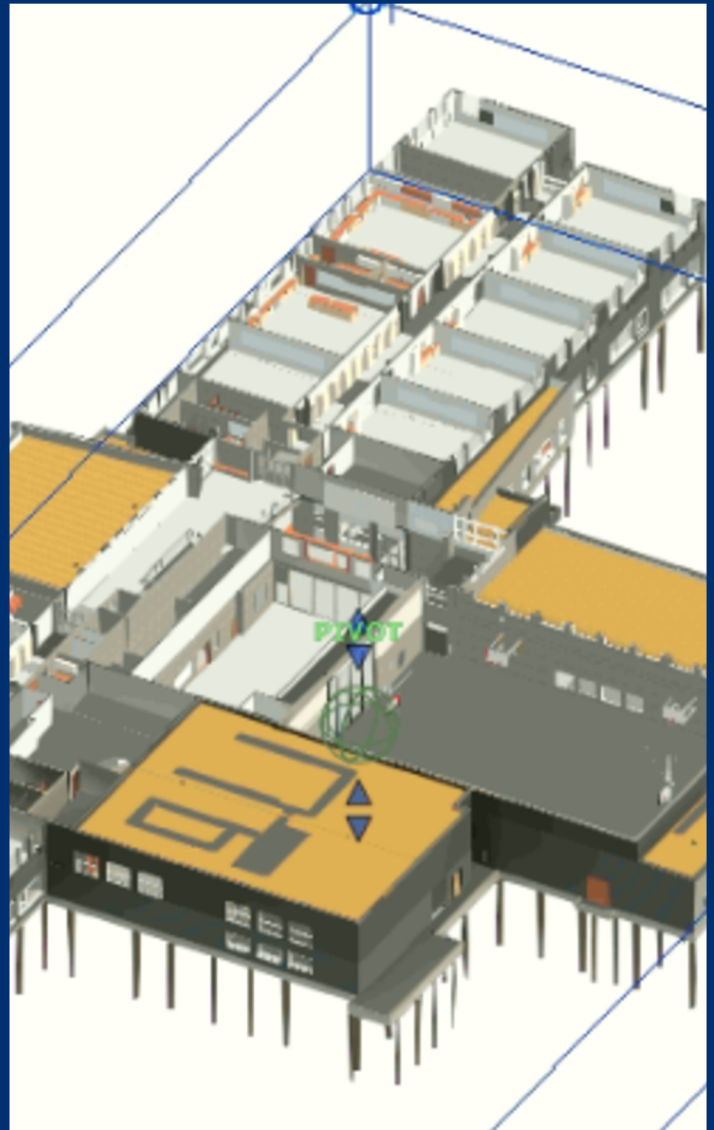
CHALLENGES

- Managing a constant stream of design changes and revisions efficiently.
- Handling numerous revision requests while keeping models coordinated.
- Ensuring precise documentation for permit and construction sets.
- Ensuring quality and efficiency within tight deadlines.



OUR APPROACH

- Weekly coordination meetings, highlighting and resolving RFIs, critical issues during meetings, and seamless documentation process.
- Collaborating closely with the client to incorporate requested design changes and ensure alignment with project goals.
- Employing industry best practices and adhering to region-specific standards to ensure accuracy, consistency, and compatibility of the models with project requirements.
- Implementing Milestone-Specific Checklists for High-Quality Models and Sheets



CONCLUSION

This case study highlights the transformative potential of BIM in the construction industry. By integrating BIM into the project, the project team achieved enhanced efficiency, reduced risks, and improved project outcomes.

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