

M. ALI NAVIDBAKHSH

B.Arch, M.Arch, OAA, CPHT, GSC, RELi AP, LEED Green Associate



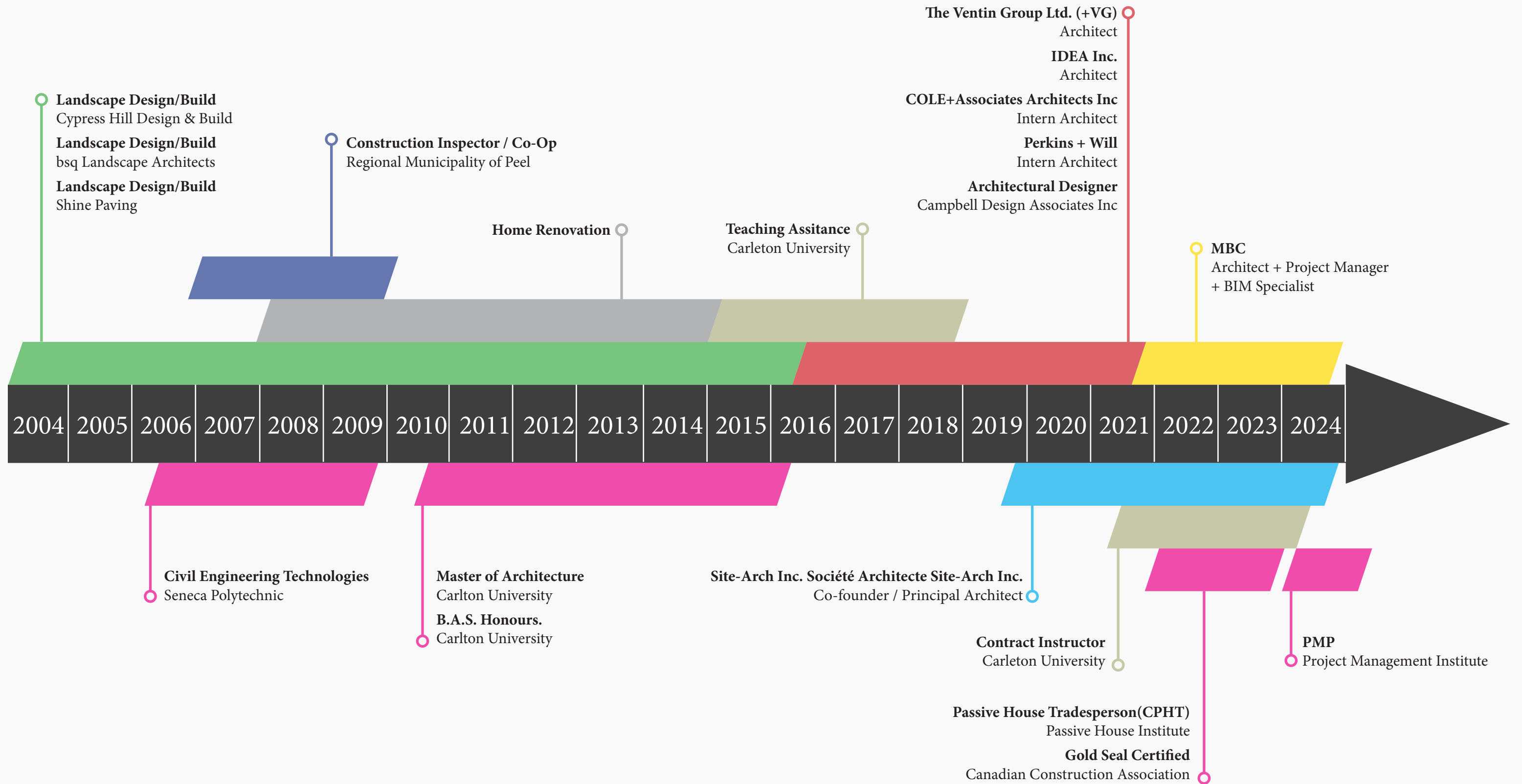
Gold Seal Certification	2023
Passive House Builder	2023
Contract Instructor, Studio 3	2023
Construction Project Manager	2022
Site-Arch Inc.	2020
OAA License	2019
Master of Architecture	2016
Teaching Assistant	2015
Bachelor of Architectural Studies	2014
Civil Engineering Technology	2009
Landscape Design Builder	2004



▲ ● ■ Azrieli School of
Architecture & Urbanism



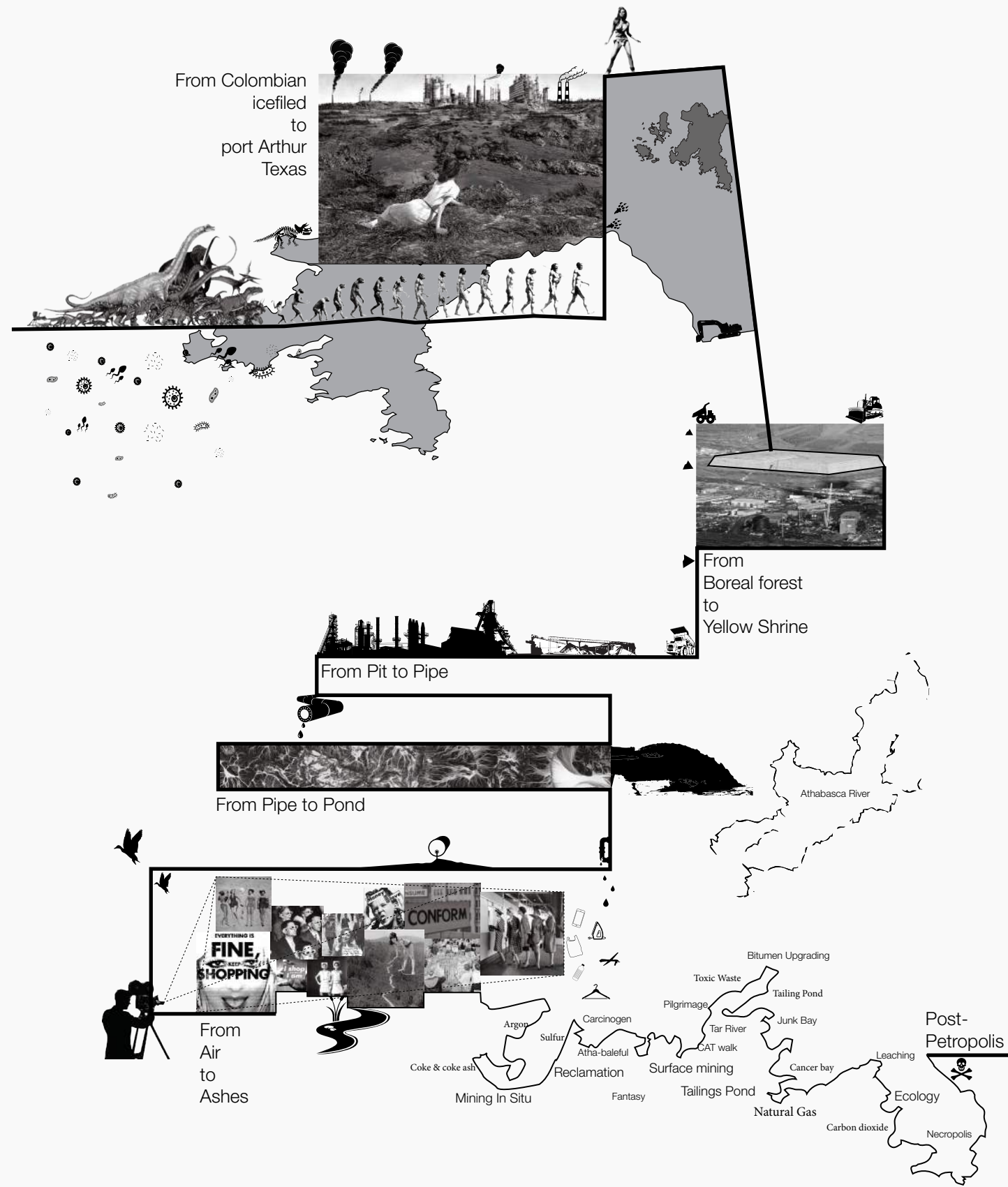
Ali Navidbakhsh
Illustrated CV



M.Arch Thesis
Post-Petropolis
Alberta After The Oil Boom
2014-2016

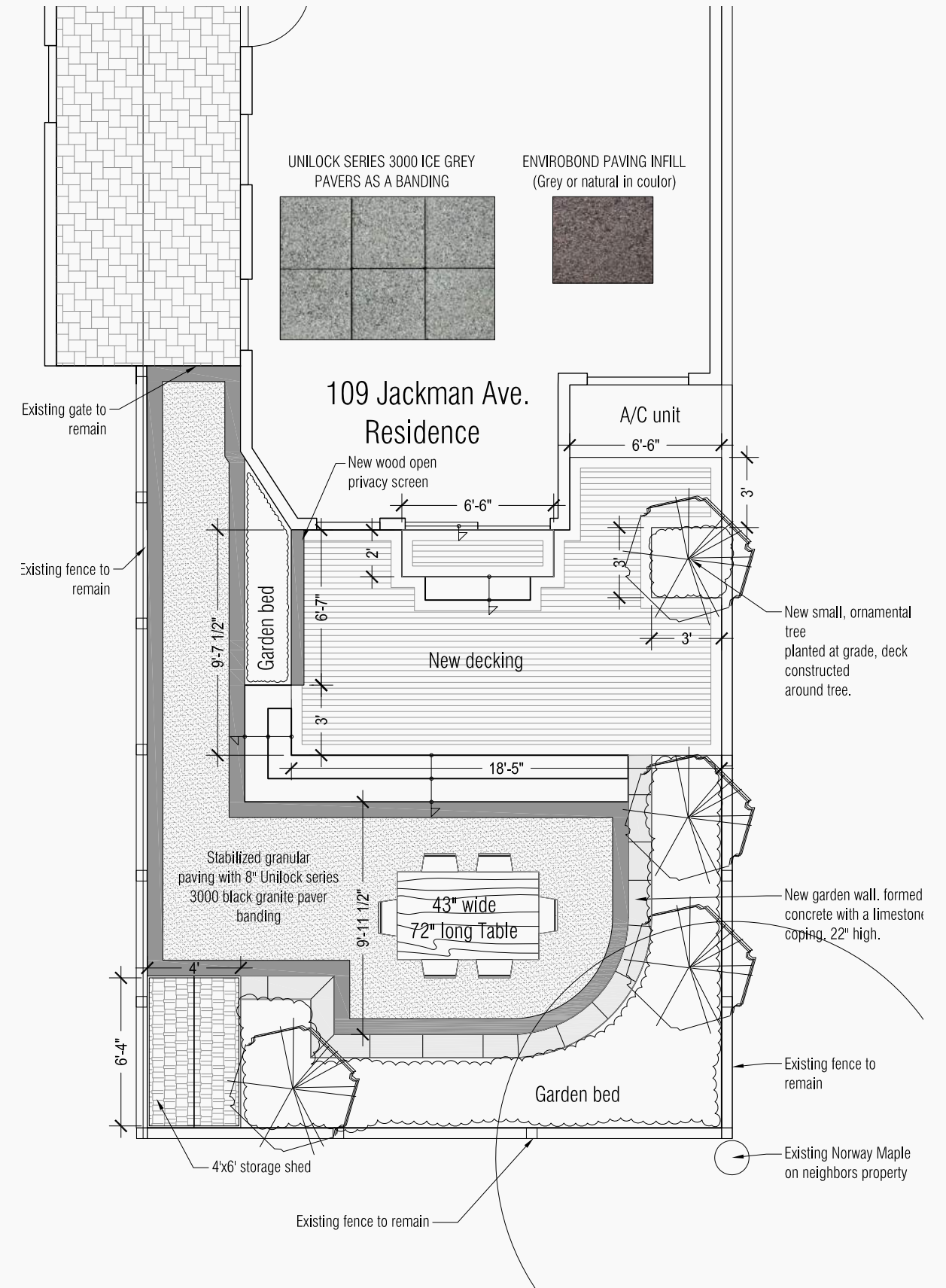
Post-Petropolis is the story of conflicting natural and artificial landscapes; a speculative and theoretical proposal that explores today's immense rate of consumption, our precipitous abuse of the landscape, and the planet's scarce resources. The context is Alberta after the Oil Boom. What will we be doing, imagining and designing after this orgy of production and immorality? What should be done with all the industrial carcasses and disfigured land left behind once the industries have exhausted the land? Post-Petropolis questions whether it is possible to heal the colossal land scars caused by Oil Sand production with an architectural strategy that envisions the post-oil future of Alberta.

Final Defense Presentation





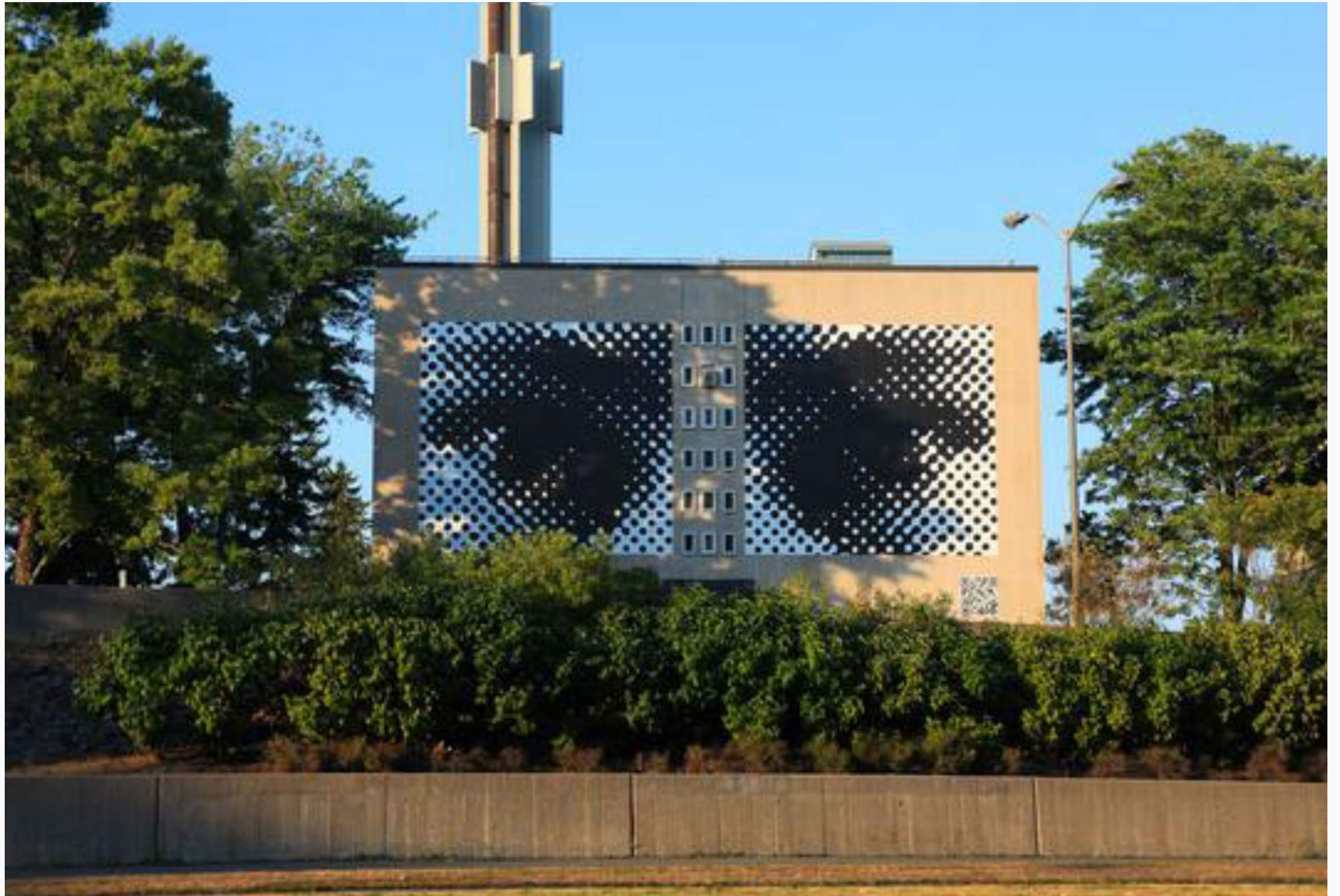
Landscape Design & Build



Perkins&Will

STEM Complex

A new approach to campus development that optimizes real estate with dense urban design and a robust public realm. This significant building, co-locating the Faculties of Science and Engineering, establishes a critical mass of people, learning, and research that adjoins a new public plaza, creating a vibrant sense of place and a destination for campus and community. Collaboration is a fundamental premise for the new STEM building. It brings together Civil and Mechanical Engineering, Physics, Mathematics, Earth Sciences and Chemistry in one location as a single community. The design of the building engenders collaboration by organizing programs both vertically and horizontally to support visibility of learning and research, supported by a wide range of collaborative spaces.



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Publications

The Homogeneous Territory

In conjunction with the 2017 celebration of Canada's sesquicentennial anniversary, the editors of the Site Magazine launched a competition inviting submissions that, through design, would take a position on the future history of Canada's national project. Entrants were challenged to develop proposals that considered the nation's history and current context, and simultaneously offered new perspectives on the role of legacy as a driving force in the creation of the nation.

With over 150 years to reflect upon, and truly many more years, Canada's anniversary compels us to cast a critical eye on the legacies of the past century and half, and simultaneously to project ideas for what the next 10, 50, 100, or 150 will bring.

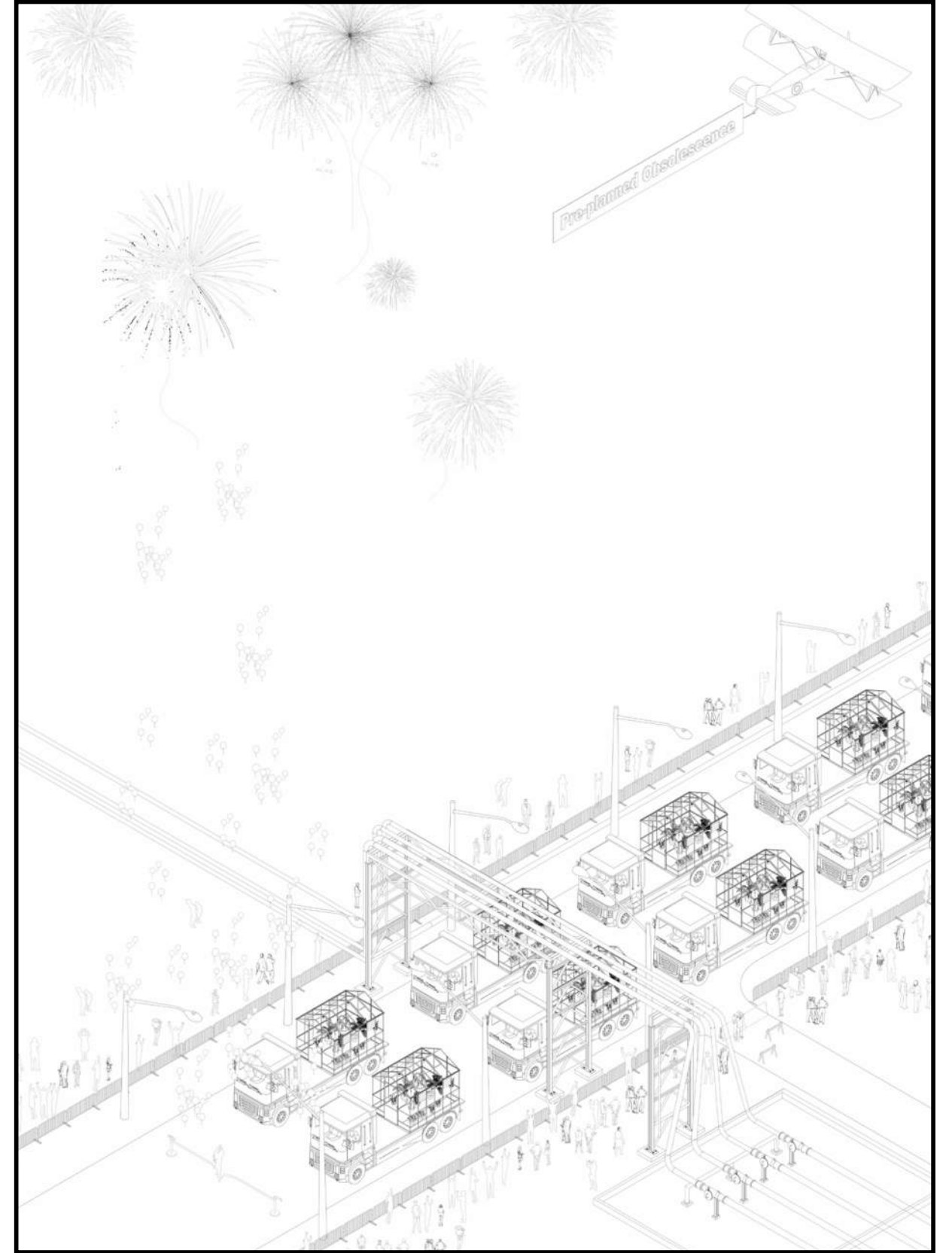
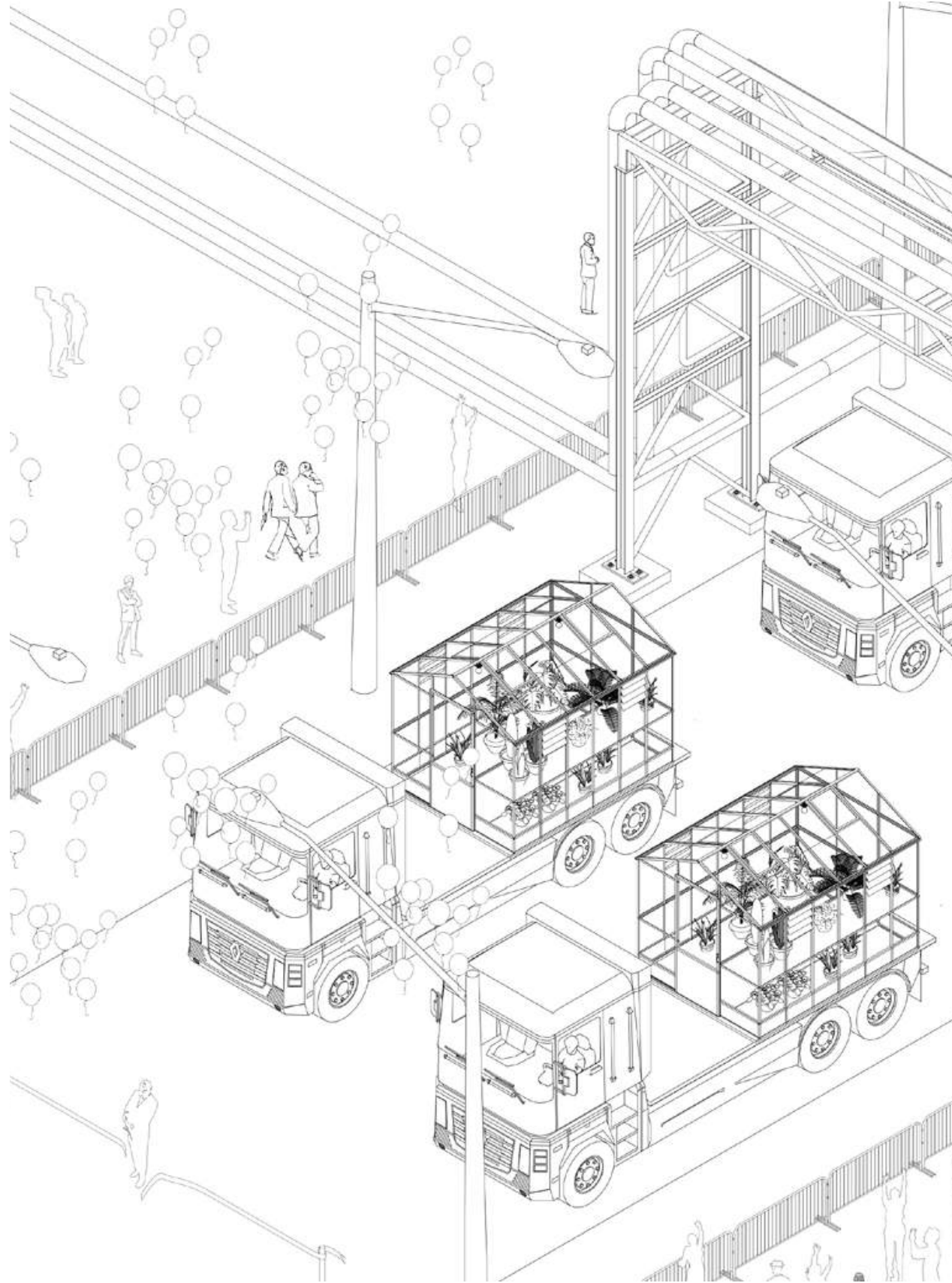


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Perkins&Will

ONE YONGE

A new community centre located within the base of a mixed use high rise development. One Yonge Street will include 5 towers (22-95 stories), the former Toronto Star building upgrade, 2860 residential units, office and retail space, and approximately 51,000 sq.ft community centre.

A future park is also proposed adjacent to the development. The community recreation centre will be implemented in the first phase of the proposed development.

The preliminary program includes a gymnasium, swimming pool with change rooms, and spaces for educational activities, fitness, multipurpose use and social gatherings.



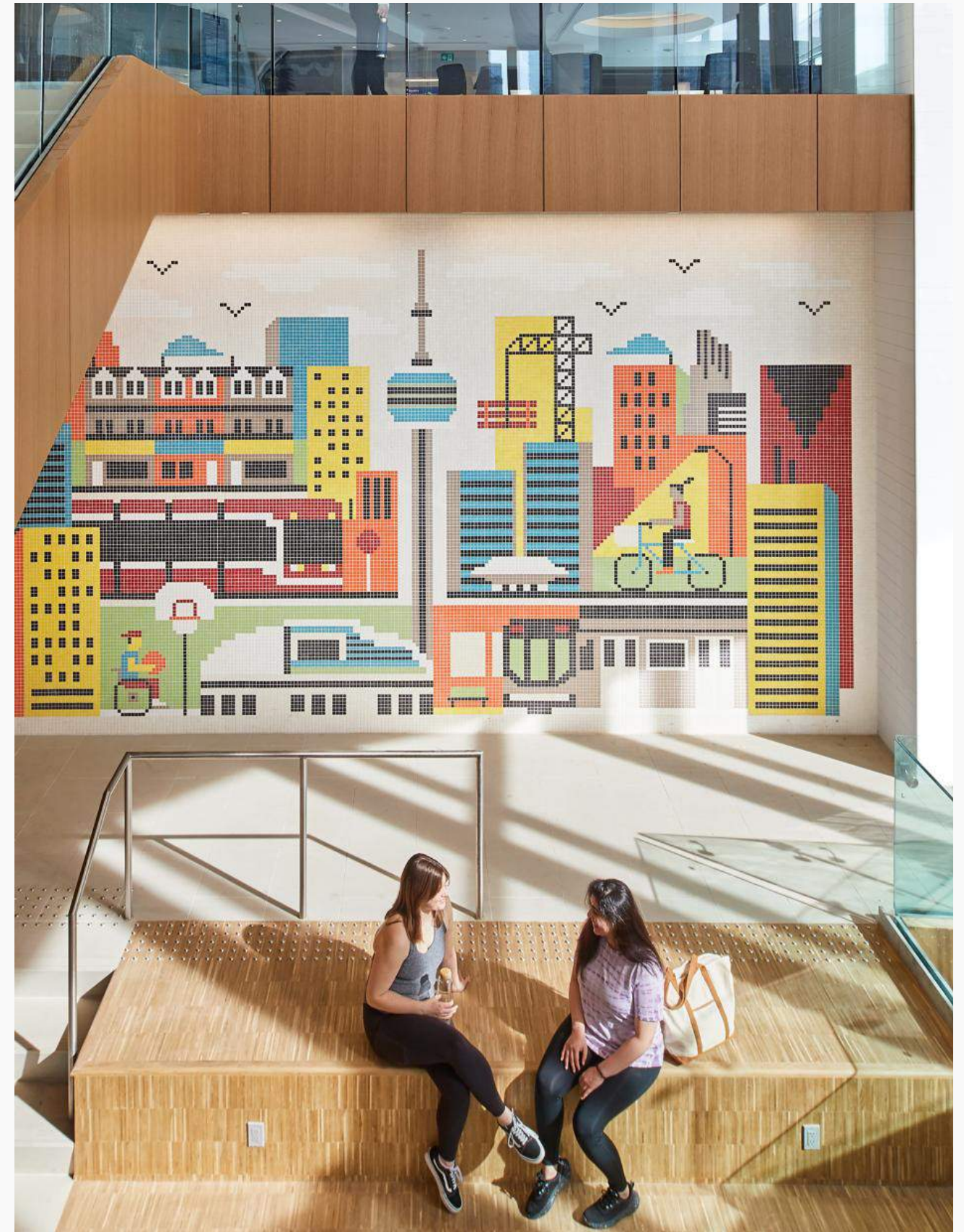
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IDEA Inc.

Nation Municipality
A Sports Complex and Community Hall located in the community of Limoges. The Construction is completed now and it provides a double soccer field (2/3 FIFE-size), perimeter walking tracks, a playing field surface for multiple sports and activities, sitting area, locker / change rooms, washrooms, support spaces and a 150-person community hall with an integrated cloakroom, bar, and kitchen. The Complex is designed to accommodate the potential for future expansion (to a full FIFE-sized field, Hall expansion and / or more capital developments. This project will provide the rapidly growing village of Limoges, within the Municipality of La Nation, and their broader stakeholders in Eastern-Ontario, with appropriate facilities by which to support residents' needs as well as potential future growth.



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The Ventin Group Ltd.

Net Zero School - Savant Lake School for a Small Indigenous Community 4.5 Hr North West of Thunder Bay ON. Construction cost and scarce labor market drove the design to a Modular-Prefabricated Paneling system.

This small educational hub will serve the community with a dedicated play ground, early childhood education, elementary and secondary school. It will also function as a community center after hours for summer and winter games for youths and elders.

Main Entrance



The Ventin Group Ltd.

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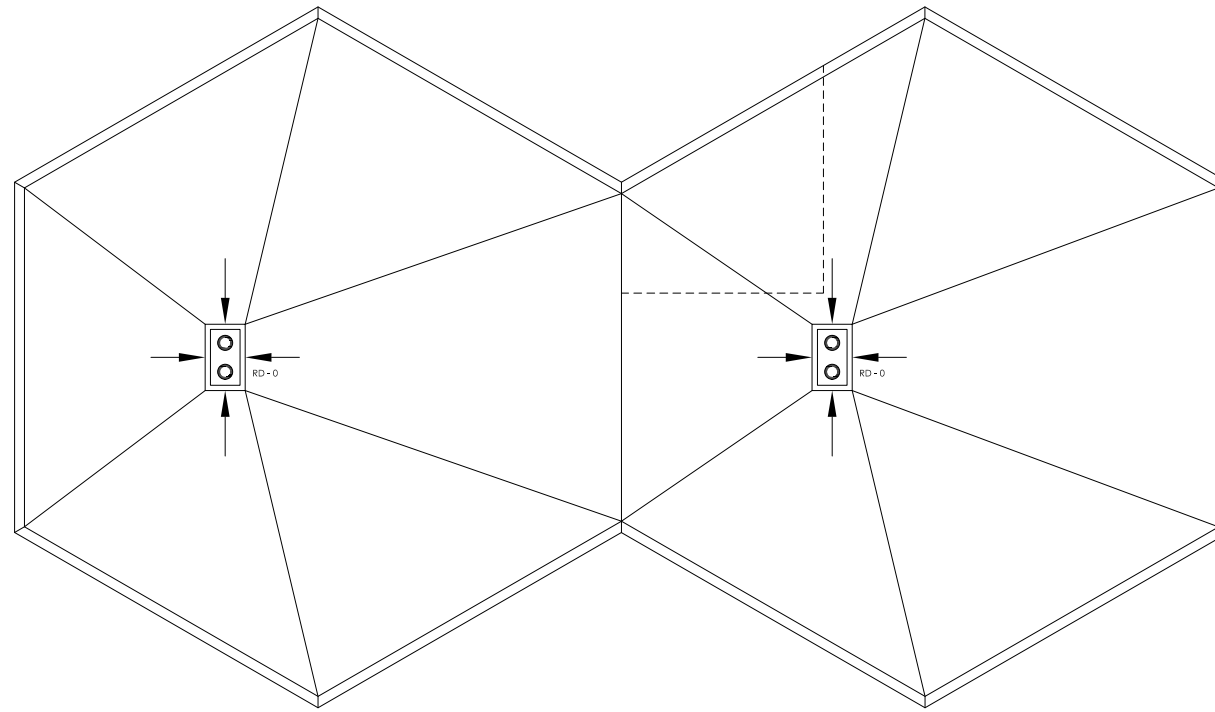
Corridor



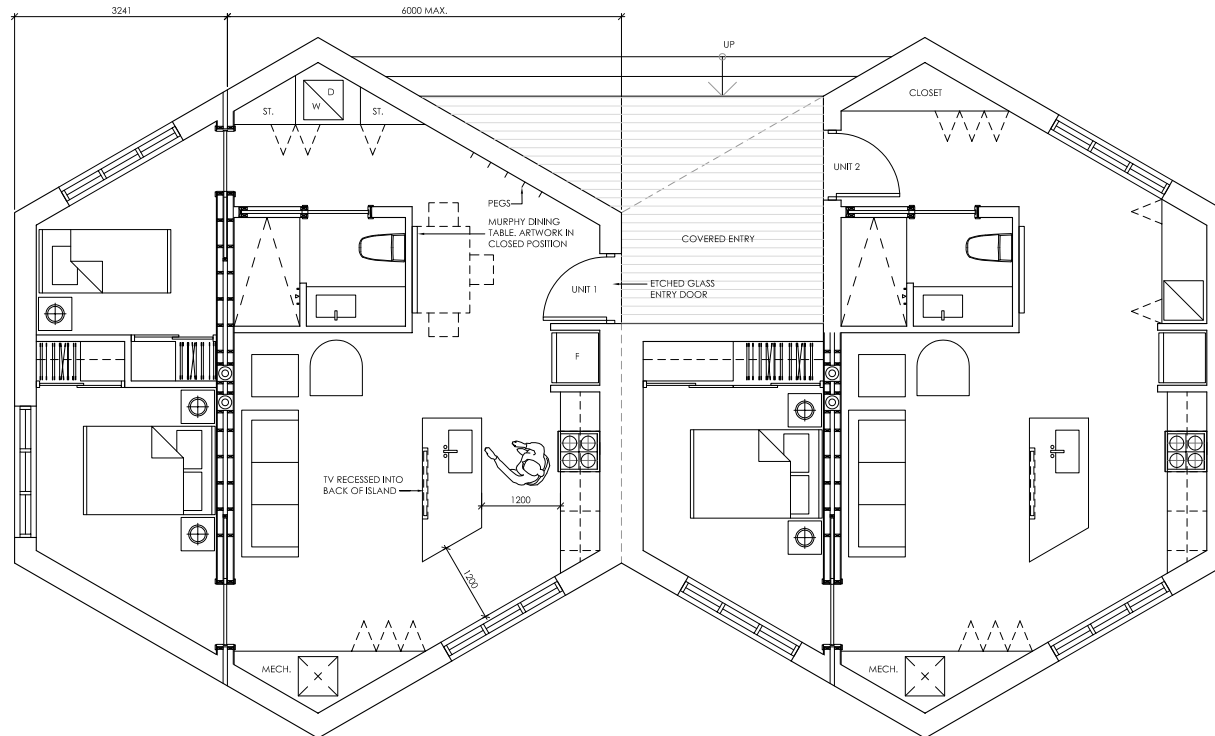
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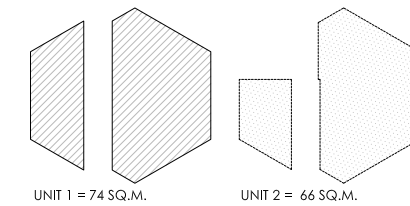
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2 ROOF PLAN
A2.1 SCALE: 1:50



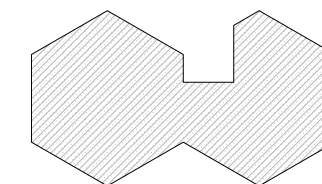
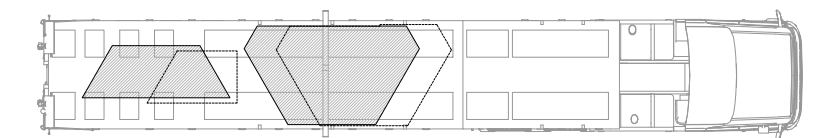
1 FLOOR PLAN
A2.1 SCALE: 1:50



UNIT 1 = 74 SQ.M. UNIT 2 = 66 SQ.M.

MAXIMUM TRANSPORTABLE DIMENSIONS:

WIDTH 6.0m
HEIGHT 3.650m



TOTAL 140 SQ.M.

2 KEY PLANS / AREAS
A2.1

Teacherage Pods

The Ventin Group Ltd.

Portland Hub

A new mixed-use building for the Town Hall/Administration Building for The Township of Rideau Lakes. Project is aimed to Enhancement Portland Community Area. With a new library and flex space rooms.

Hall has a divider for multiple functions and emergency exits directly to the east end of the property. Design contains the administrative office component, and includes one staff washroom, a general “consultation desk”. Office layout incorporates administrative staff with and 4 workstations.

Main Entrance



The Ventin Group Ltd.

Portland Hub

A new mixed-use building for The Township of Rideau Lakes. Project is aimed to Enhance Portland Community Area. With a new library and flex space office spaces.

Hall has a divider to play a multiply functional role. Design contains the administrative office component on the second floor, and includes one staff washroom, a general “consultation desk”.

The office layout incorporates administrative staff with and 4 open workstations.



Community Hall & Outdoor Space



The Ventin Group Ltd.

Browns Bay Canteen

The oldest of all of the Parks of the St. Lawrence, Brown's Bay was the only provincial park between Gananoque and the Quebec border before the St. Lawrence Seaway came into existence.

The large beautiful beach makes this location perfect for swimming, relaxing and having relaxing picnics in the shade with friends and family.

This new Structure, provides support service amenities to the Beach, swimmers, picnicking and playground.

Main Entrance



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Beach View

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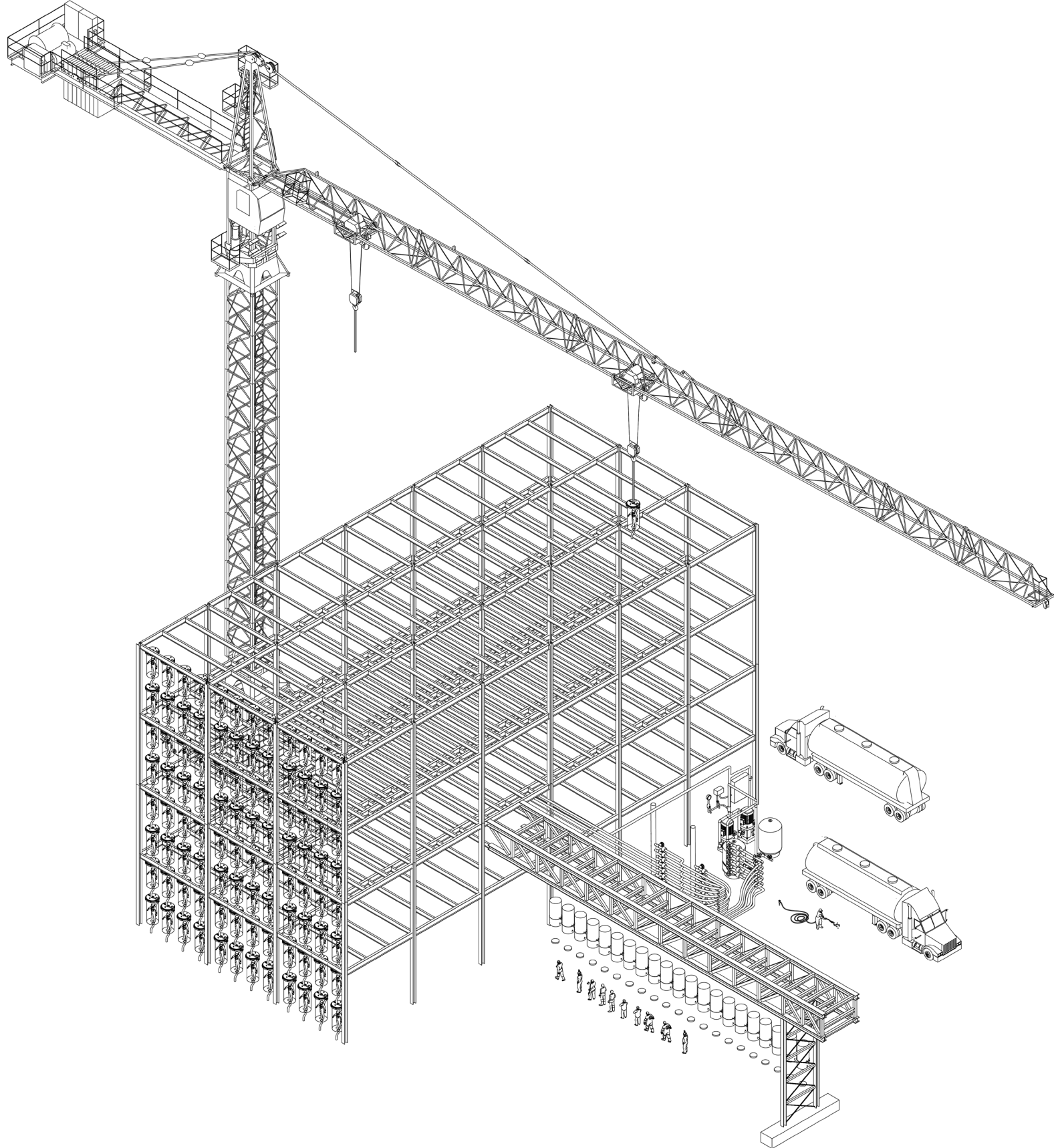
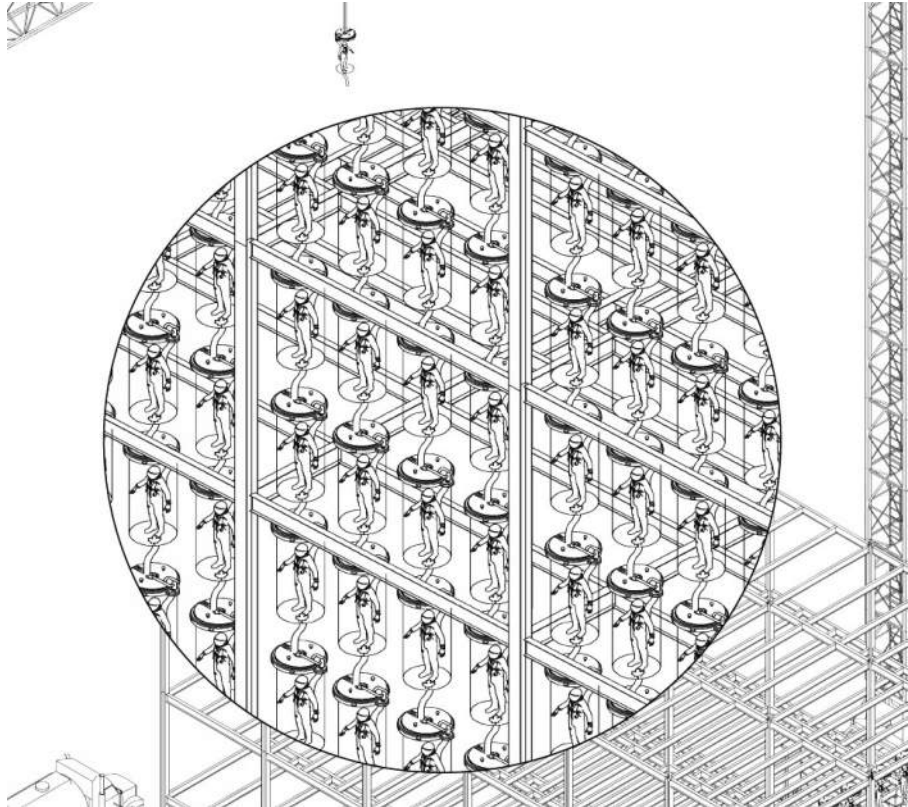
Main Entrance



From Micro Apartment to Macro Consciousness

Fantastical expectations of smaller dwellings!

Beyond superficial symptomological discourse, a sincere consideration of subservient legal constraints reveals the cultural and economic issues that are seen as a housing crisis. This manifesto proposes to correct the misdiagnosis of a housing crisis. How small, how clever must housing be to resolve the need for profit? What is the true cost of distilling a human right to housing? Can we imagine sustainable actions to stem the massive economic hemorrhage imposed on Canadians, imposed on each other?



Submission Drawing

McDonald Brothers Construction Inc.

Forward Ave.

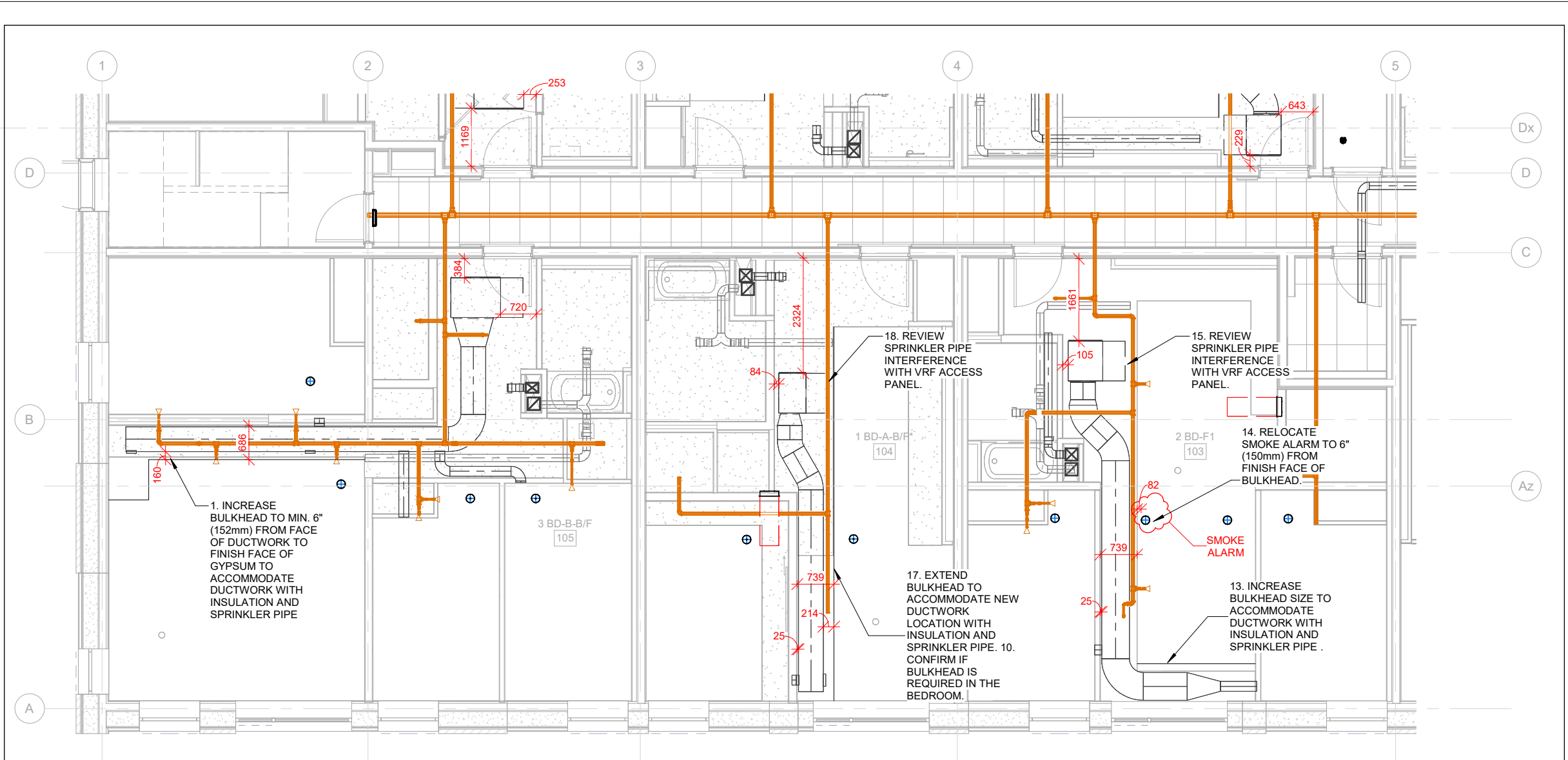
Clash detection in BIM involves identifying and resolving conflicts between building elements.



McDonald Brothers
Construction Inc.

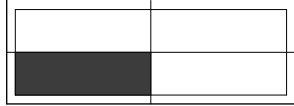
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INTERFERENCES NOTES

1. THERE ARE 100+ NOTES ON DRAWINGS PRODUCED BY MBC'S FROM FEEDBACK FROM CLIMATEWORKS, ESCAPEFIRE, MAXI POWER AND SITE VERIFICATION, ALL INTERFERENCES NOTED MUST BE VERIFIED BY CLIMATEWORKS, ESCAPEFIRE, AND MAXI POWER. ALL DUCTWORK, ELECTRICAL FIXTURES AND SPRINKLERS MUST BE COORDINATED AND VERIFIED FOR EACH INSTANCE, THERE MAYBE MORE SPECIFIC LOCATIONS THAT REQUIRES ALL TRADES TO COORDINATE THEIR WORK THAT MAY HAVE NOT BEEN CAPTURED IN THIS DRAWING PACKAGE.
2. ON ALL LEVELS BULKHEAD CEILINGS ARE NOT LARGE ENOUGH TO CAPTURE DUCTWORK WITH INSULATION AND SPRINKLERS.
3. NO SPRINKLER HEAD CAN BE MOUNTED UNDER DUCTWORK ON LEVEL 2 AND 3.
4. REVIEW PROVIDED DIMENSIONS FOR VRF UNITS AND VERIFY ON SITE FOR INTERFERENCE WITH OTHER TRADES.
5. ALL DUCTWORK TO BE 1" FROM THE WALL AND 1" FROM THE FINISH CEILING ON ALL LEVELS.
6. ALL LEVEL 3 NOTES APPLY TO LEVEL 4 AS WELL.

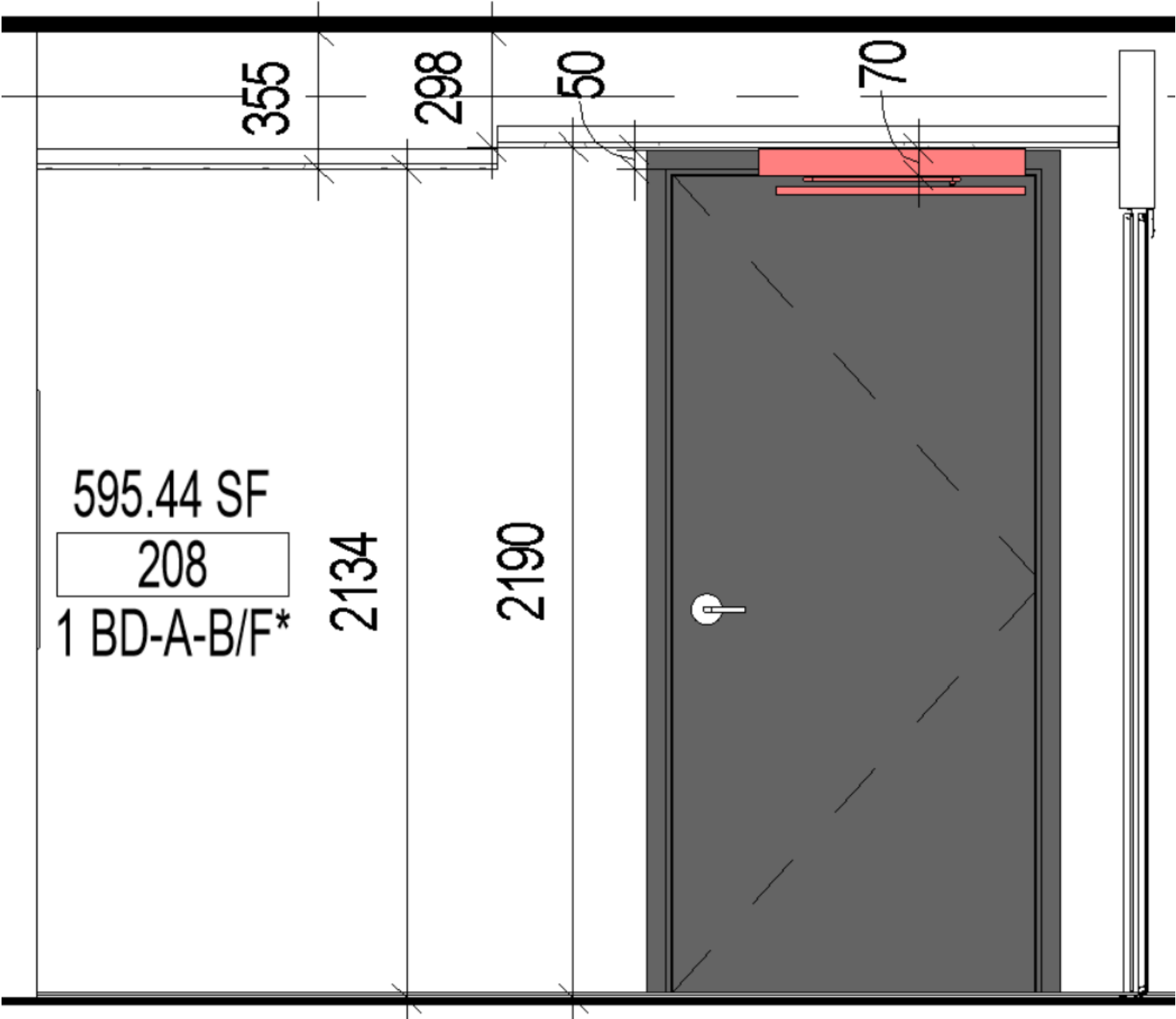


L1- HVAC		M-401.1
Project number		
Date	Issue Date	

McDonald Brothers
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Forward Ave.

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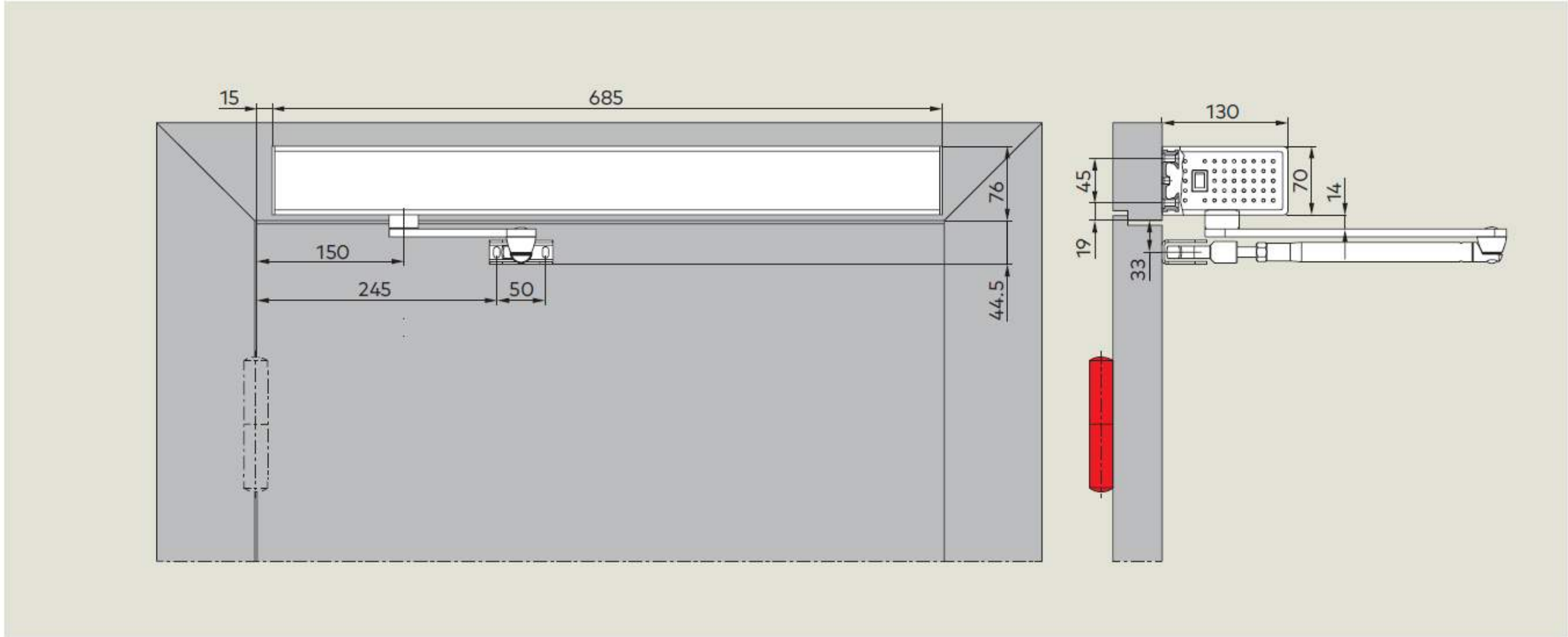


**McDonald Brothers
Construction Inc.**

Forward Ave.

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View: BASIC cover, push-version, standard axle extension



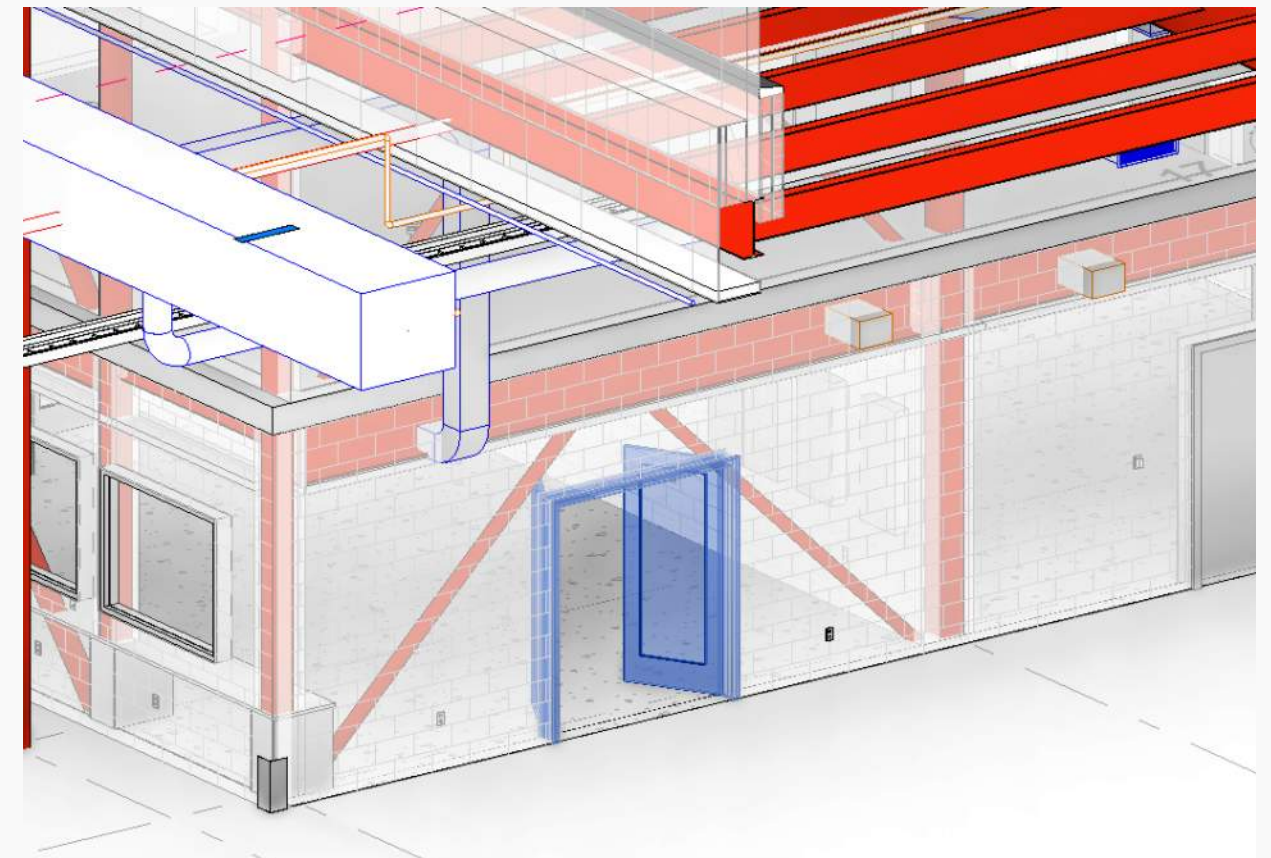
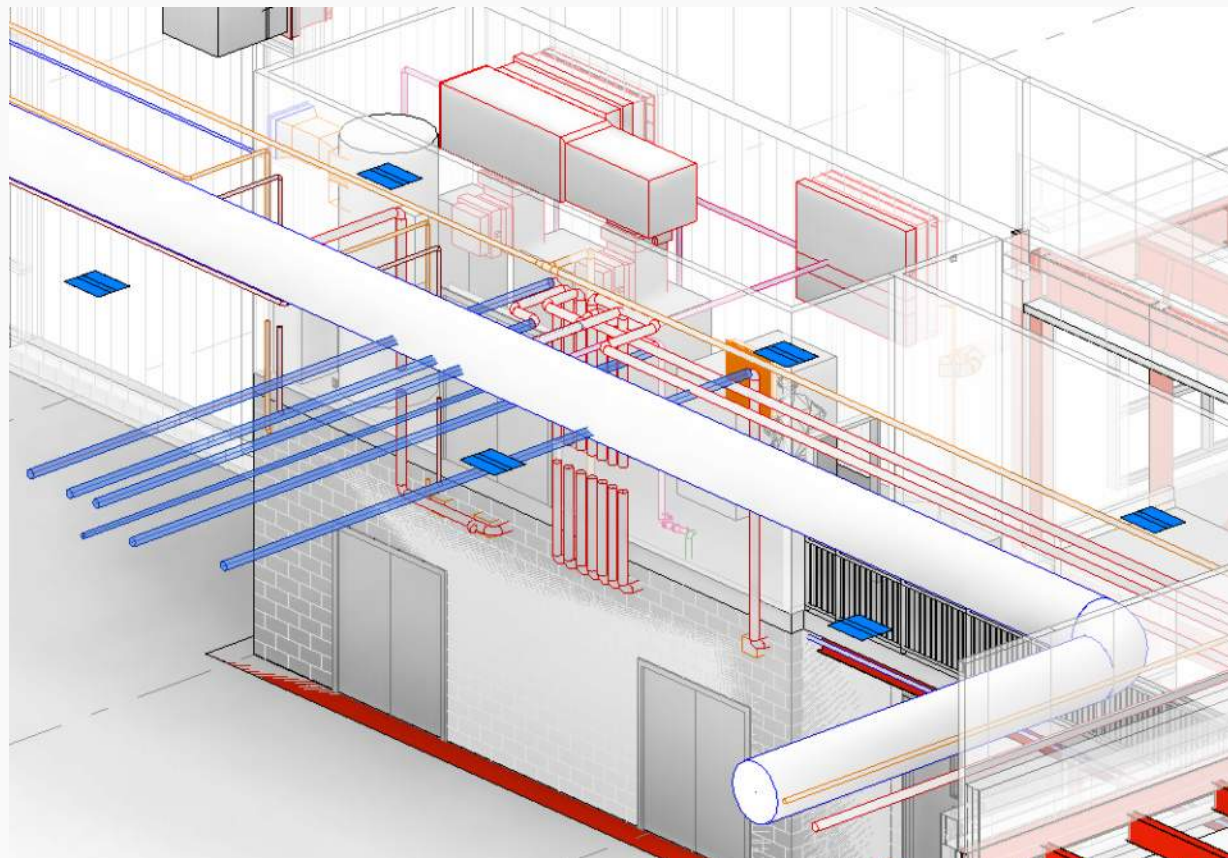
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Laurysen Kitchen

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As a BIM manager, I employ advanced clash detection software to analyze the model and detect potential clashes, such as spatial overlaps, interferences, or clashes with building regulations. I then collaborate closely with the project team to address these clashes. By proactively managing clash detection, we ensure a streamlined construction process, minimize rework, and deliver high-quality projects that meet both functional and aesthetic requirements.

BIM Workflow



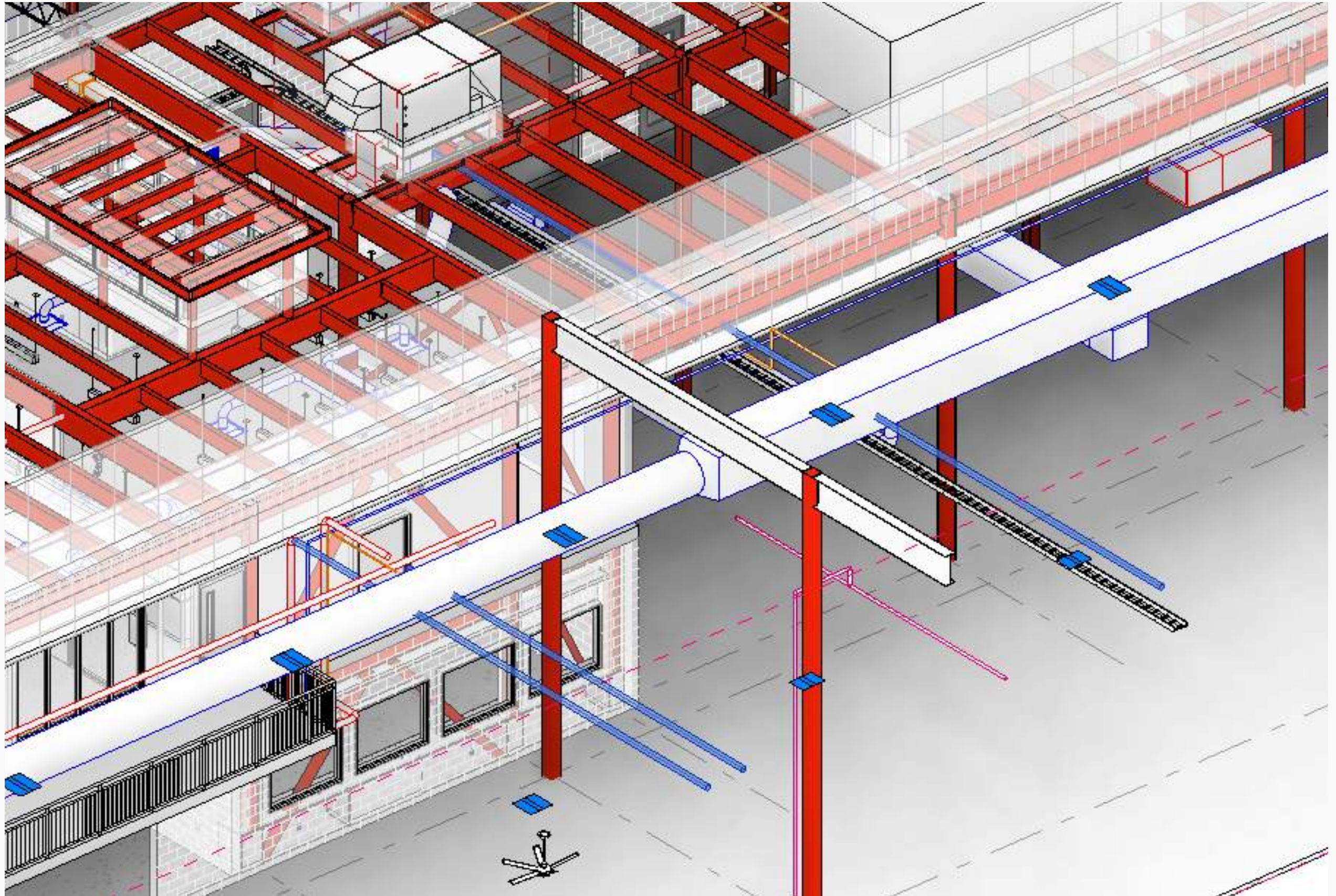
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BIM Workflow



McDonald Brothers Construction Inc.

St Mary's Church

Letter to Neighbours Regarding Building Work

Stakeholder Management

11 Parkmount Crescent,
Nepean, ON K2H 5T3

Dear 11 Parkmount Cres. Residents

We hope this email finds you well. As a resident living adjacent to our upcoming church expansion project at 1 Canfield Rd., we would like to extend an invitation to an informative session designed specifically for you and your fellow neighbors. This session aims to provide essential information regarding the construction activities and address any concerns or questions you may have.

Date: Thursday July 20, 2023

Time: 5:30 pm

Location: MBC's Site Trailer located in the parking lot at 1 Canfield Rd.,

During this session, our construction manager, along with representatives from the project team, will be present to provide a comprehensive update on the upcoming construction project. You will have the opportunity to learn about the planned activities, the expected timeline, and any potential impacts on the neighborhood.

Additionally, this session will serve as a platform for an interactive question and answer session. Our team will be more than happy to address them and provide the necessary information to ensure your peace of mind throughout the project.

Furthermore, we would like to inform you that Paterson Group Engineering will be reaching out to the residents directly adjacent to the construction site for a preconstruction photographic survey. This survey will assist us in documenting the current state of the properties and ensure accurate information for the project planning and implementation.

We understand the value of your time and will confirm the exact time and date of the information session in a subsequent email, closer to the event. We believe your presence at this session will be highly beneficial in fostering an open and transparent communication channel between the construction team and the residents.

In the coming weeks, we will also be providing periodic updates on the progress of the project and any significant developments via email. If you have any immediate questions or concerns, please feel free to reach out to us directly at info@mbc.ca. We are here to assist you and ensure that you have all the necessary information.

Thank you for your attention, and we look forward to meeting you at the information session. Together, we can work towards a successful construction project that minimizes any potential inconvenience for the neighborhood.

MBC's Best regards,

Project Management Team

McDonald Brothers Construction / St. Mary Coptic Orthodox Church

info@mbc.ca

project@stmary-ottawa.org

11 Parkmount Crescent,

Nepean, ON K2H 5T3

Dear Mr. Shawn Doherty,

We hope this email finds you well. As a resident living adjacent to our upcoming church expansion project at 1 Canfield Rd., we would like to extend an invitation to an informative session designed specifically for you and your fellow neighbors. This session aims to provide essential information regarding the construction activities and address any concerns or questions you may have.

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We understand the value of your time and will confirm the exact time and date of the information session in a subsequent notice, closer to the event. We believe your presence at this session will be highly beneficial in fostering an open and transparent communication channel between the construction team and the residents. If you wish to receive further updates send us your contact information to info@mbc.ca.

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project@stmary-ottawa.org

613.831.6223

262 chemin Westbrook Road

Ottawa, ON K0A 1L0

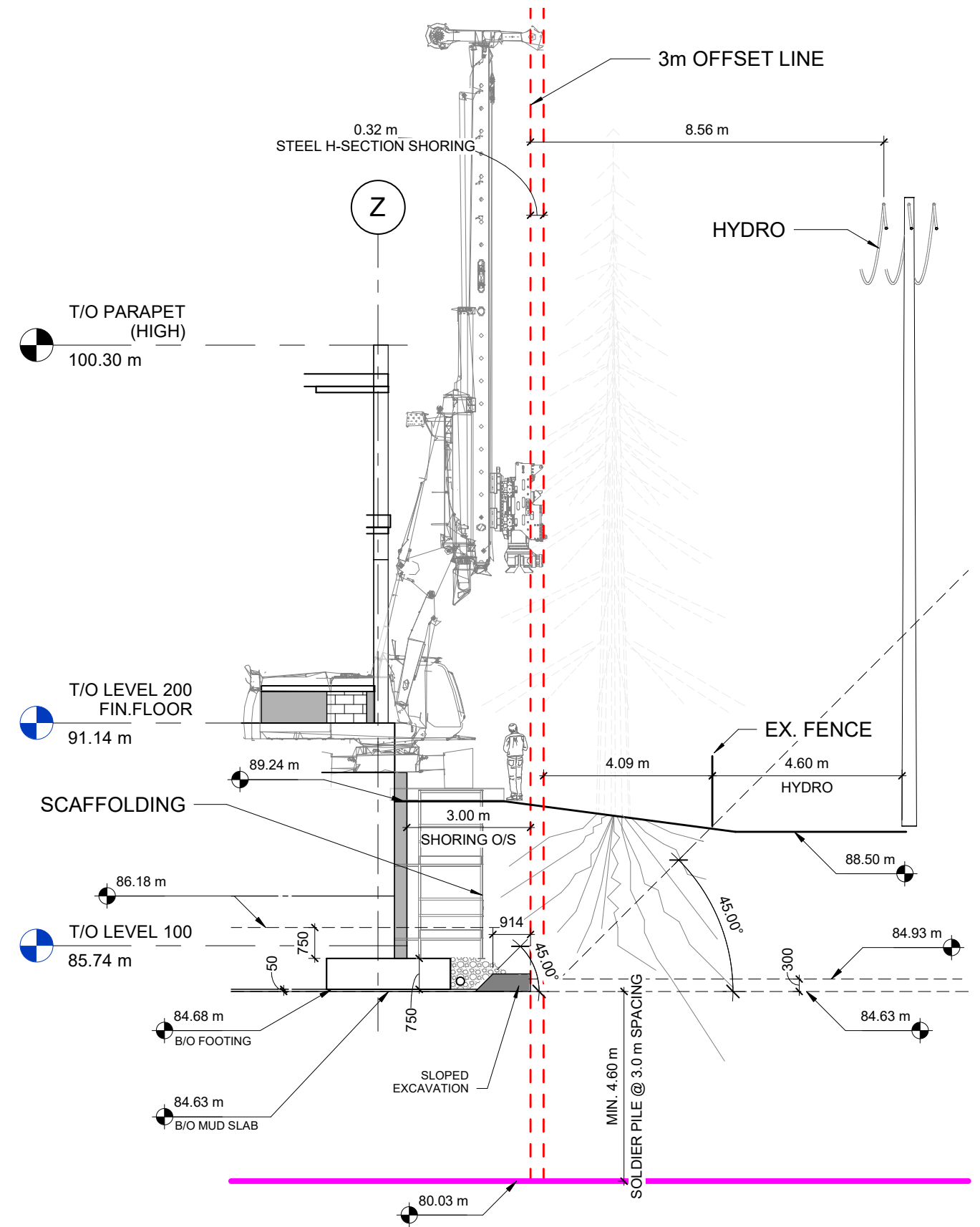
McDonald Brothers Construction Inc.

St Mary's Church

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BIM Workflow



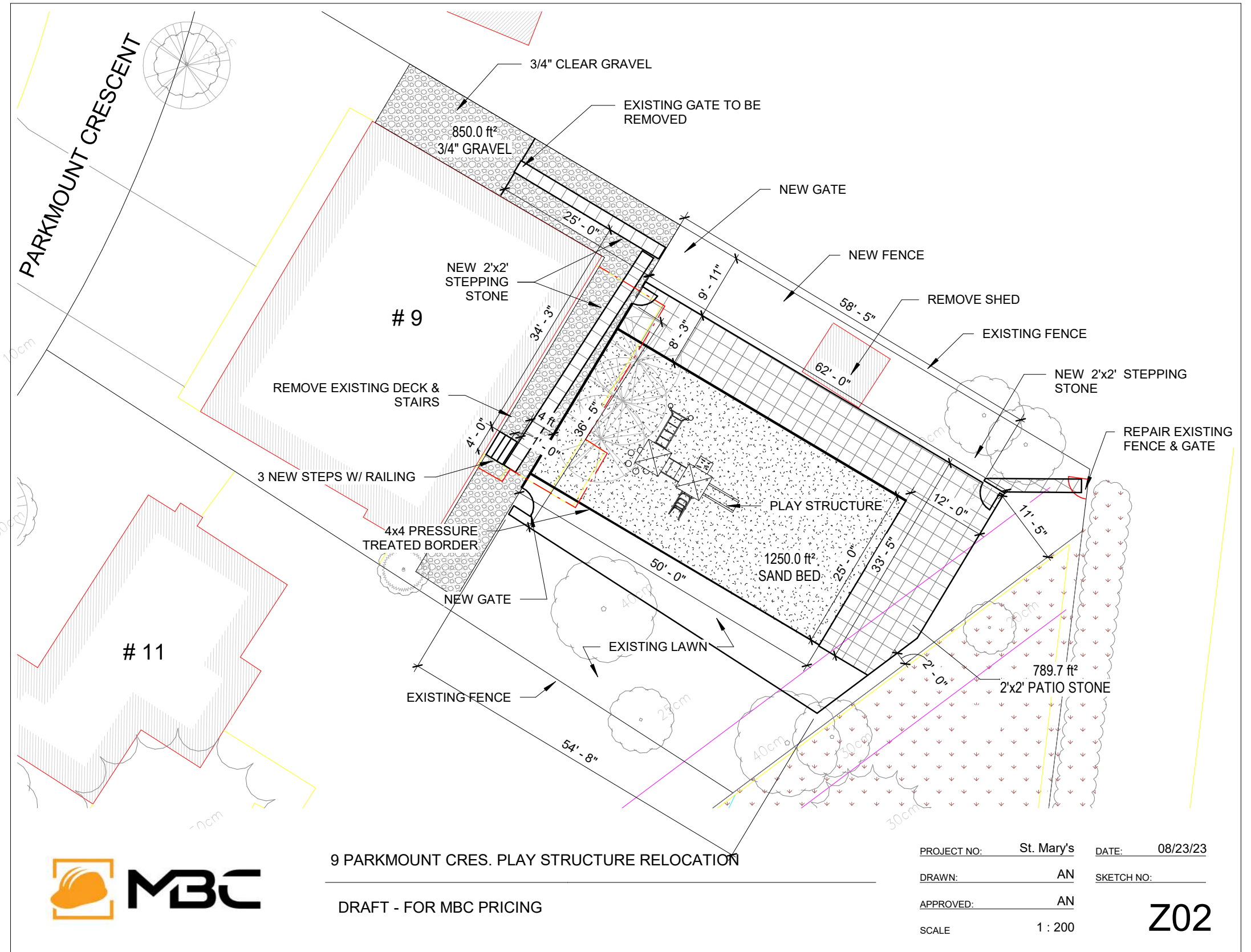
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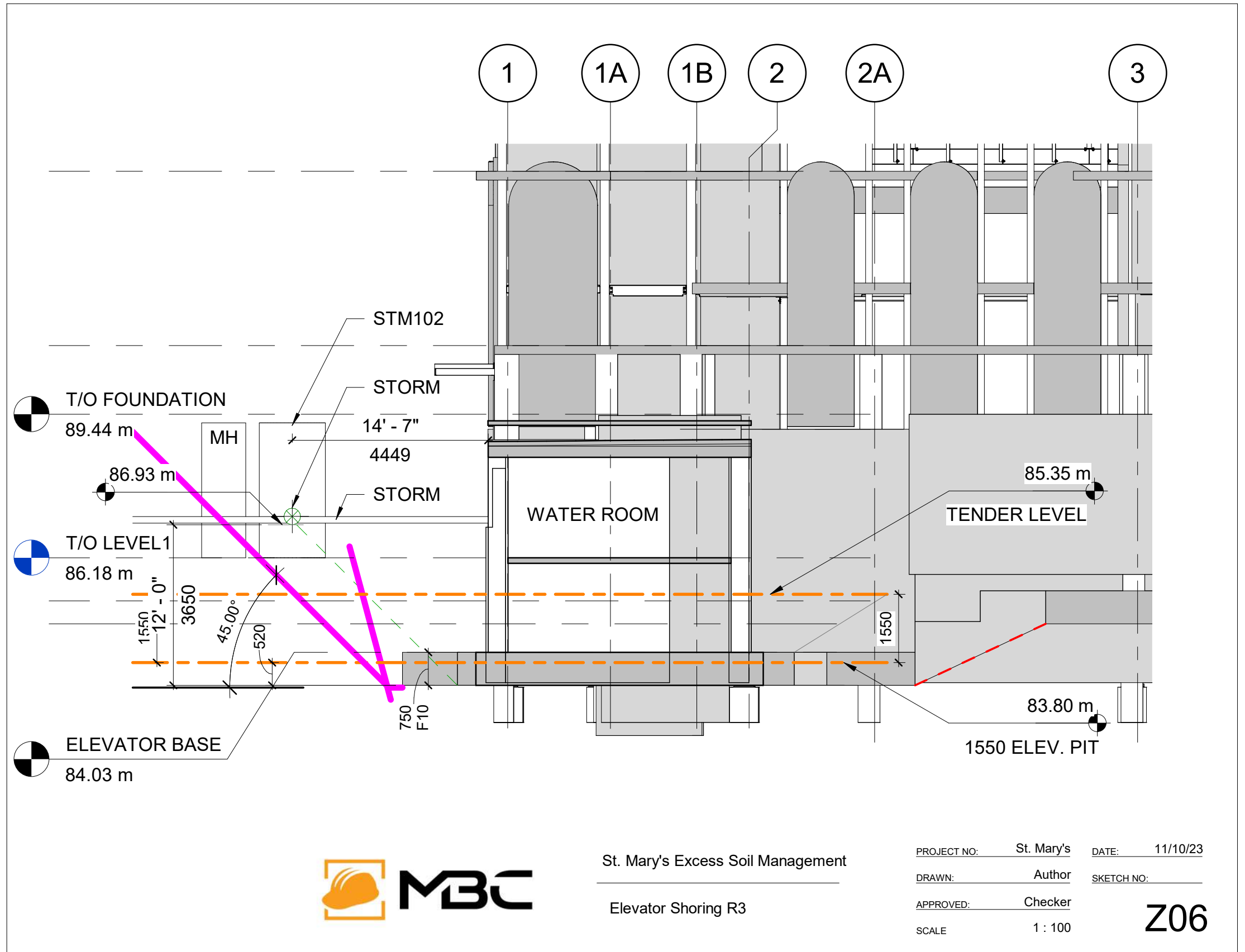
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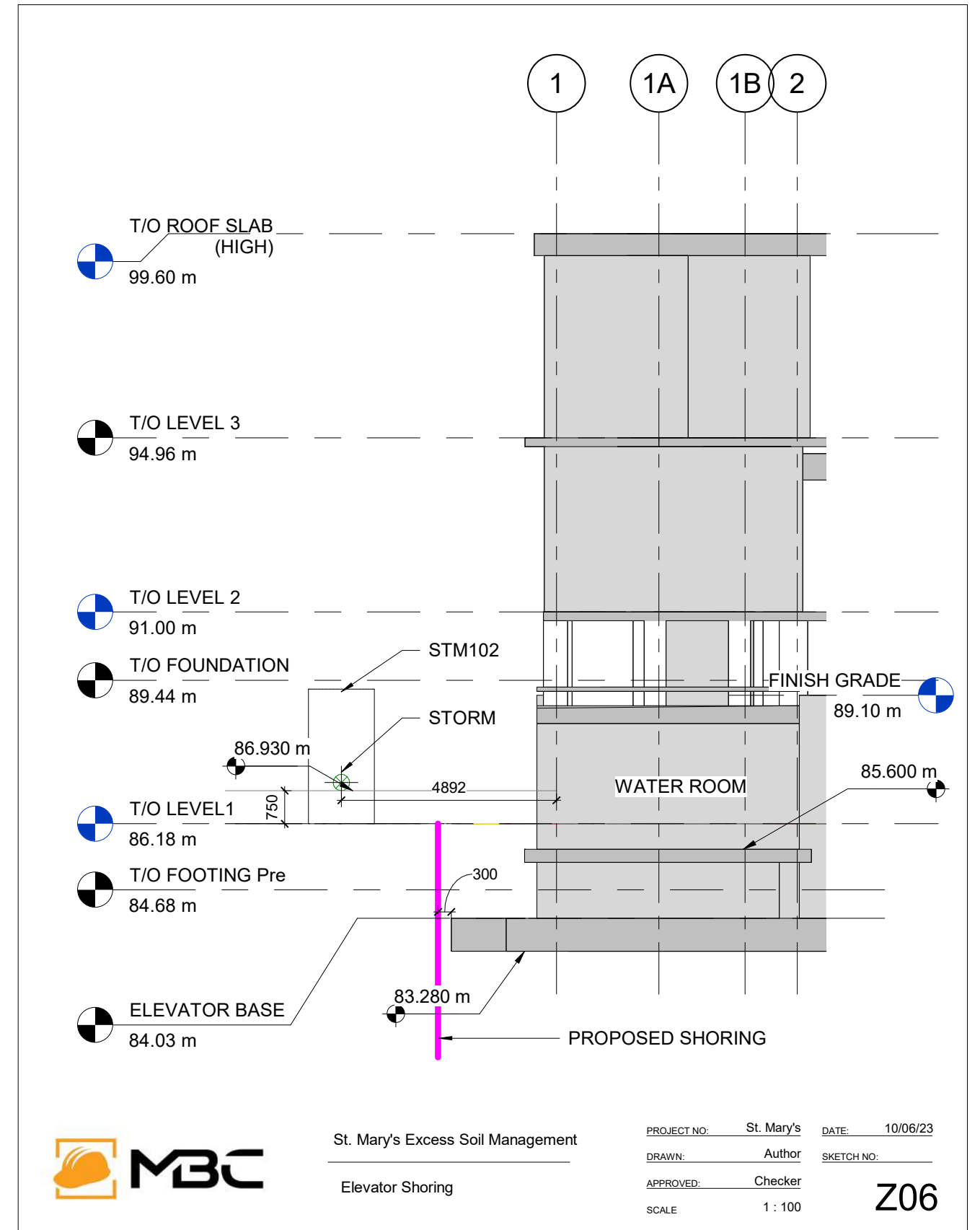
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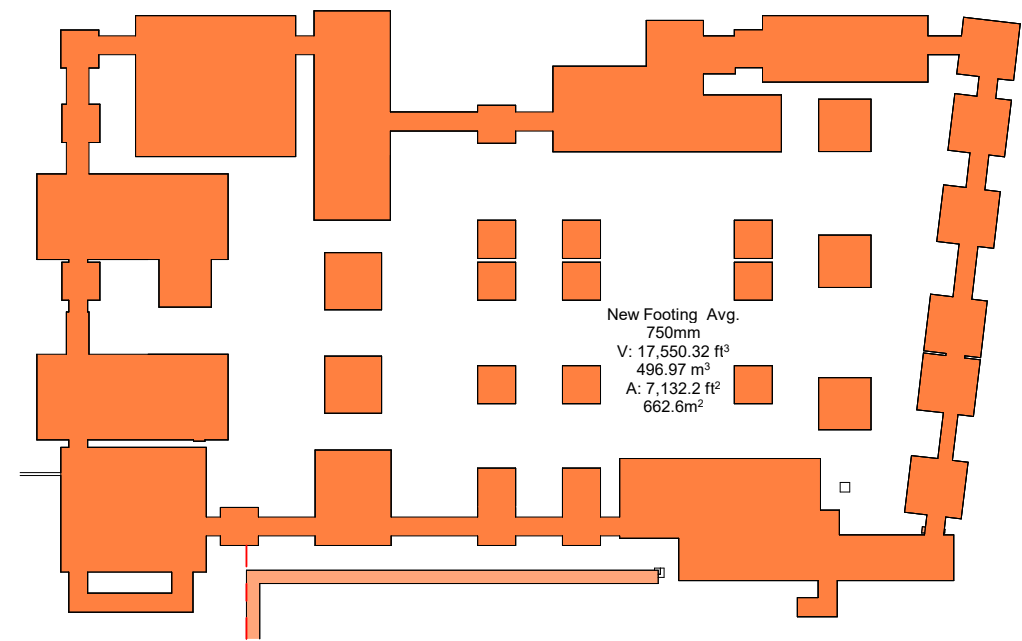
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BIM Workflow



T/O FOOTING Pre - Existing
1 : 300



T/O FOOTING Pre - New
1 : 300

Extra Fill & Compact
 $496.97m^3 - 185.8m^3 = 311.17m^3$



St. Mary's Excess Soil Management

Additional Excavation /Fill

PROJECT NO: St. Mary's DATE: 10/06/23
DRAWN: Author SKETCH NO:
APPROVED: Checker
SCALE: 1 : 300 **Z09**

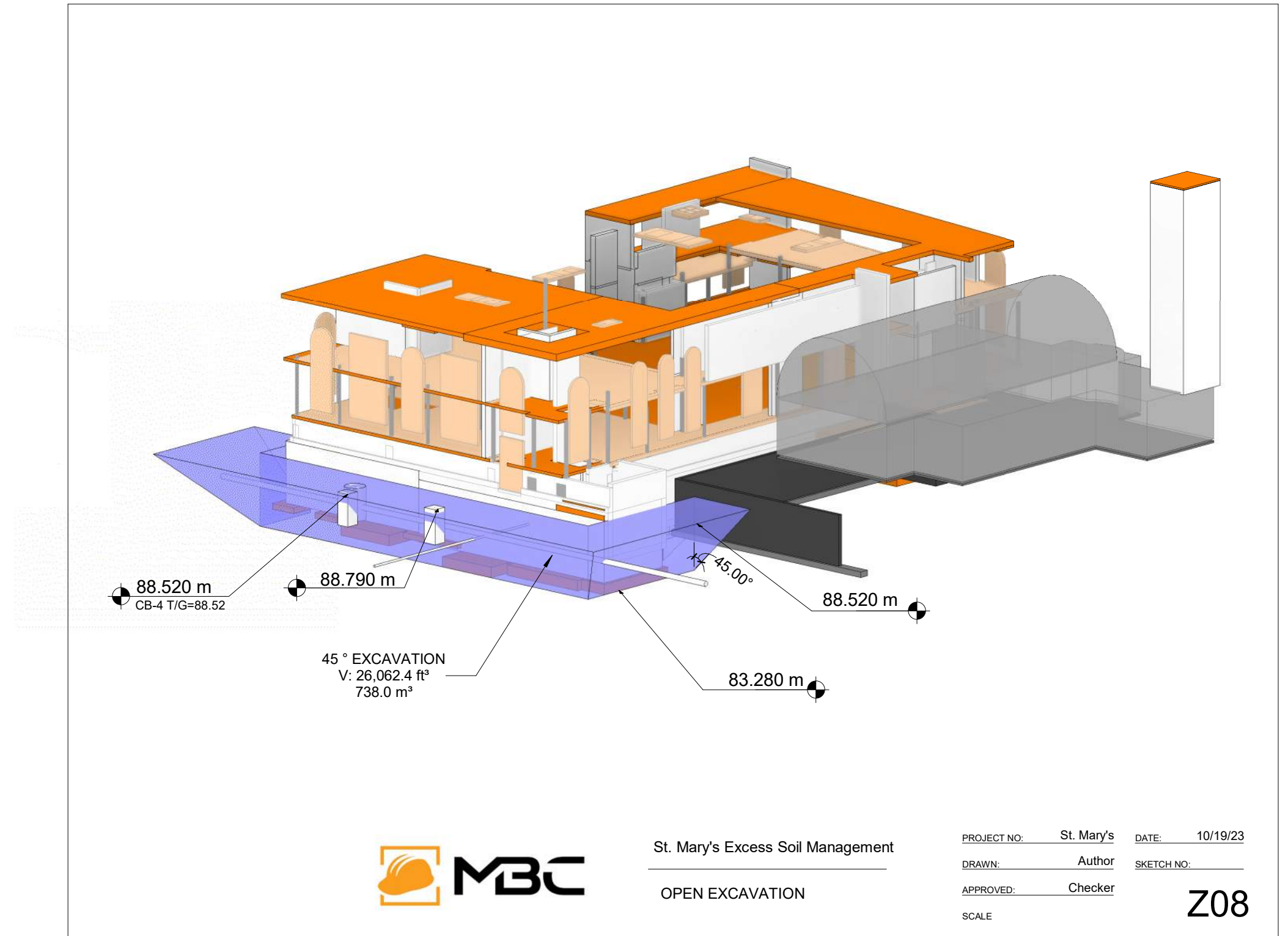
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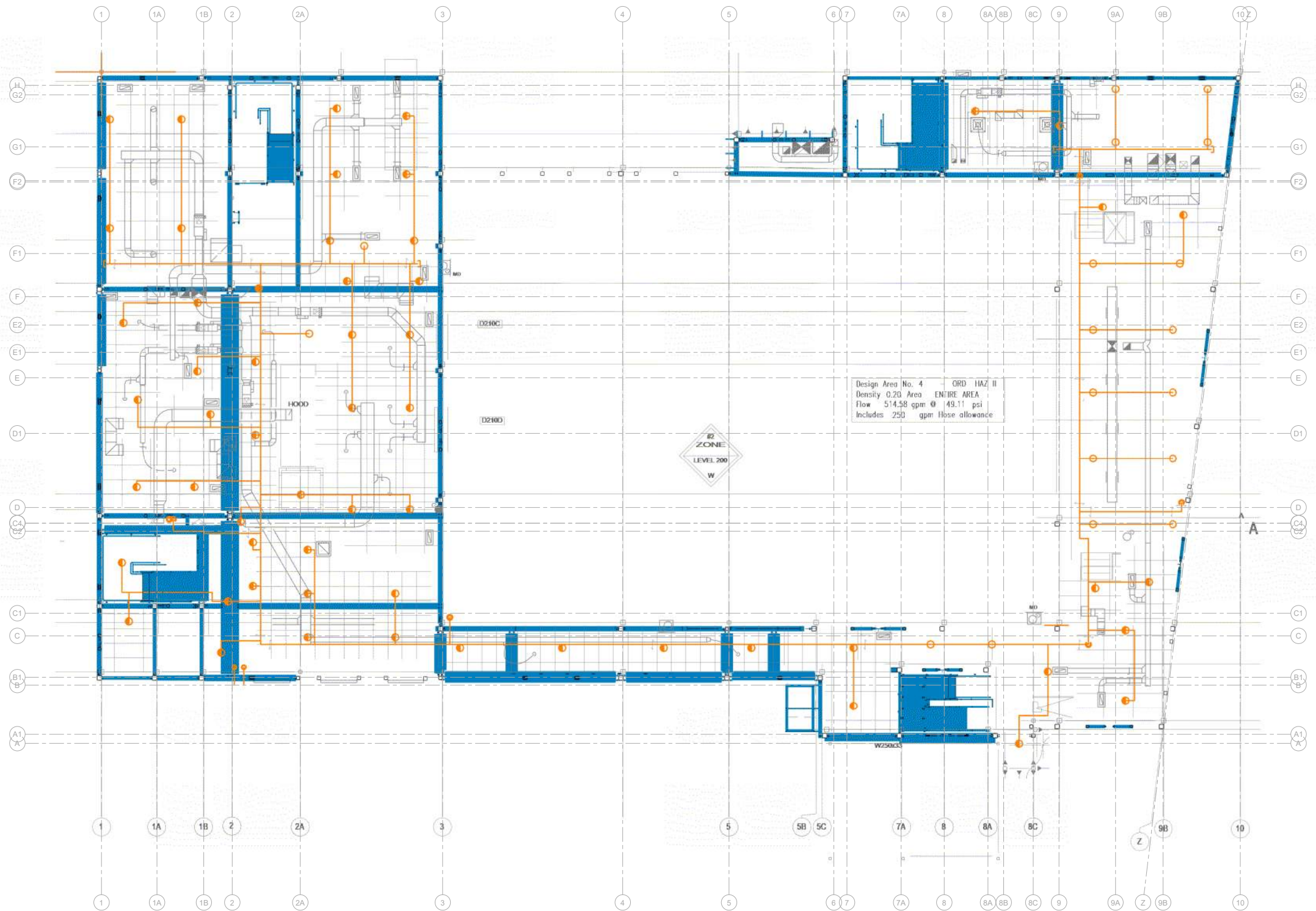
**McDonald Brothers
Construction Inc.**

St Mary's Church

Clash detection in BIM involves identifying and resolving conflicts between building elements.

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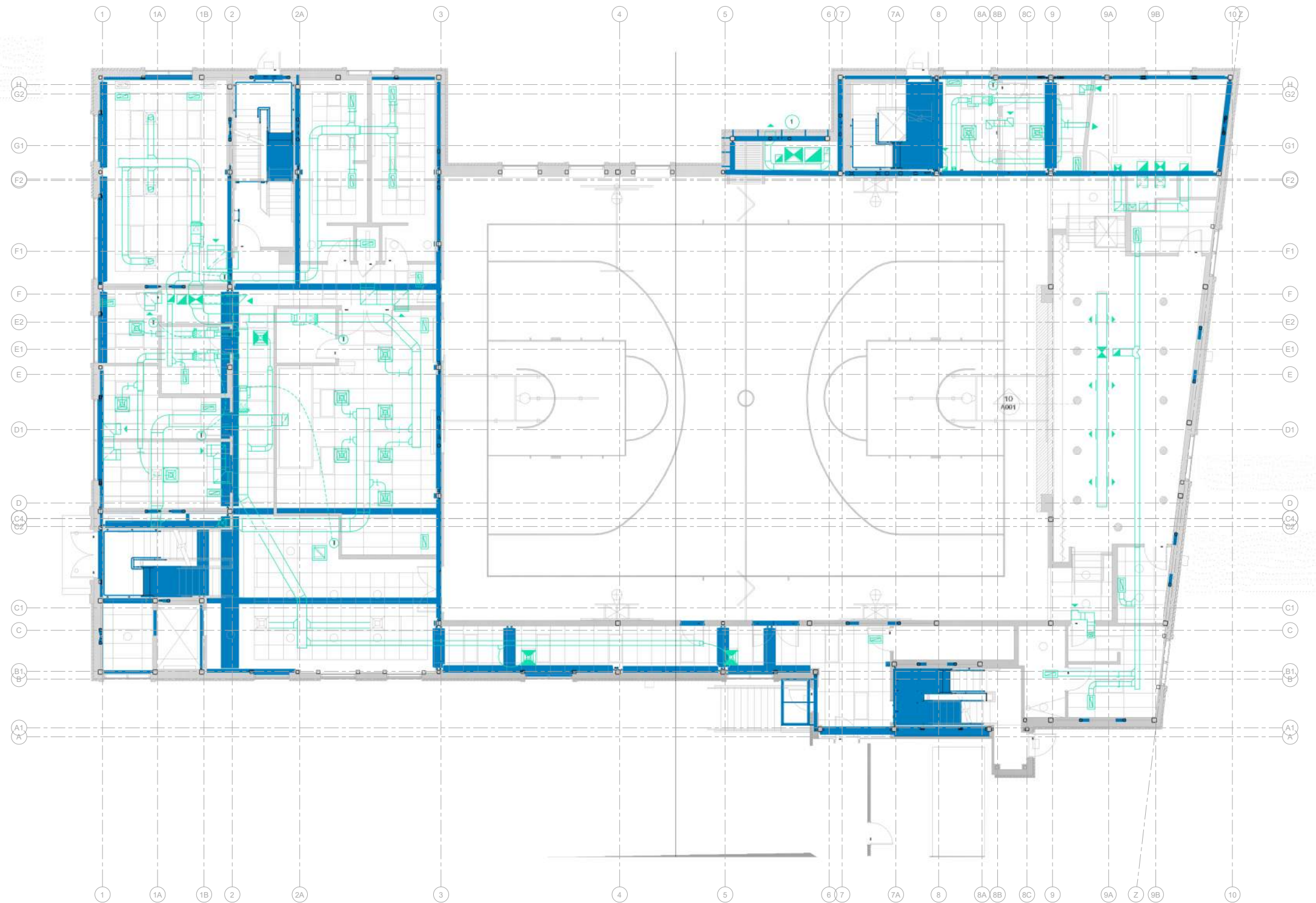
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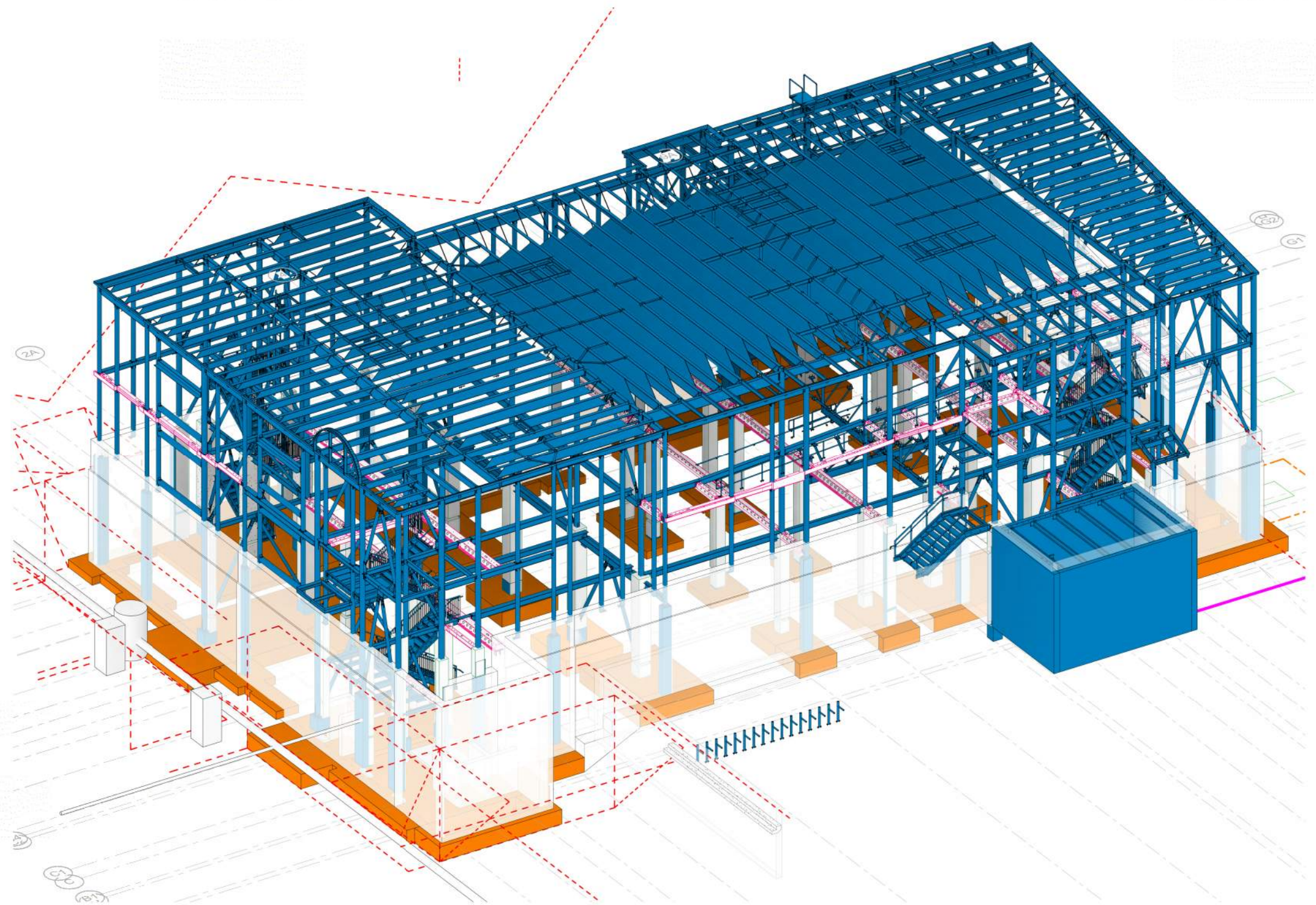
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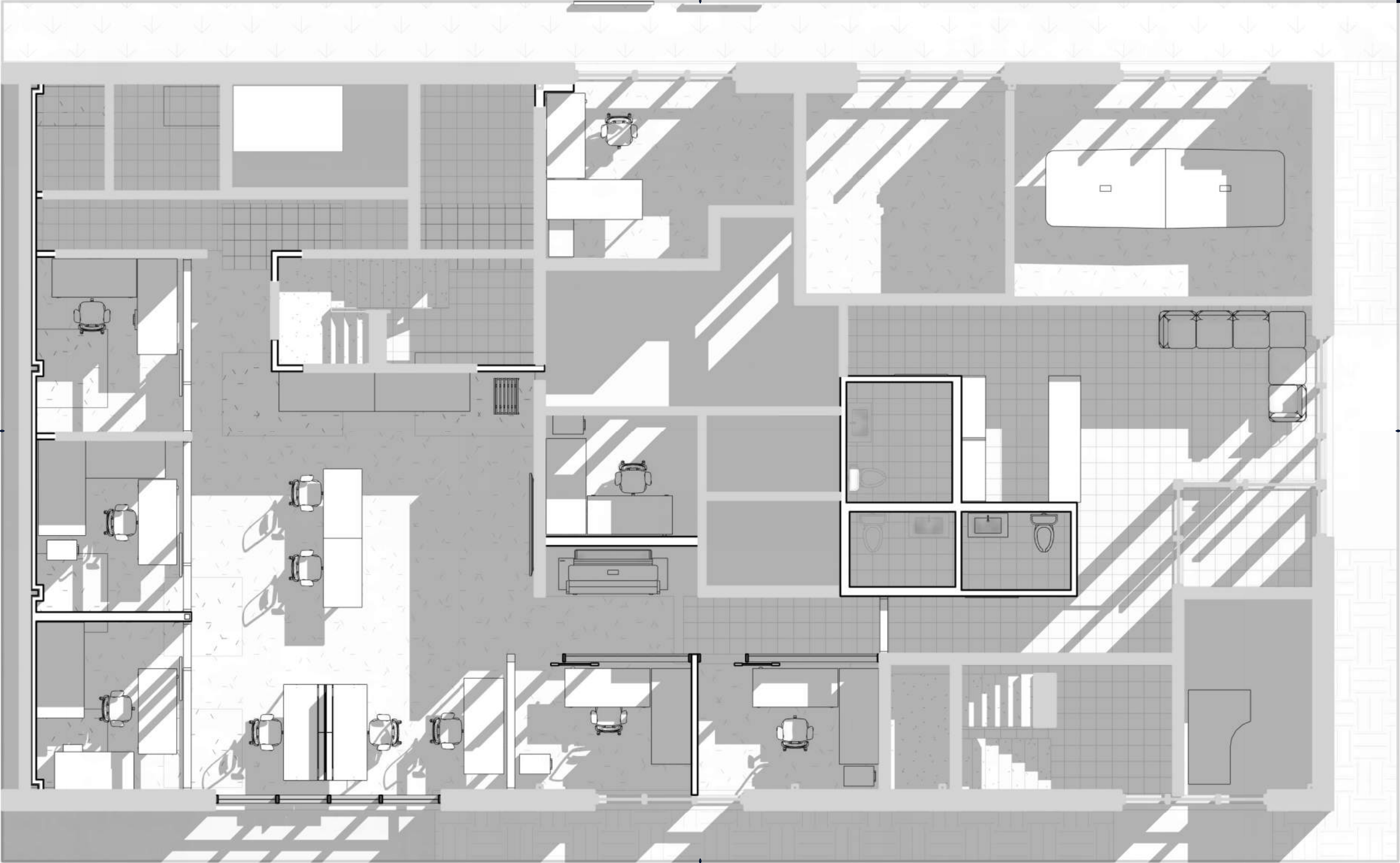
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MBC Renovation

3D modeling plays a crucial role in architecture and interior renovation, offering a range of advantages that contribute to the design, visualization, and overall success of a project. Here are some of the key advantages:

- 1. Visualization and Communication
- 2. Design Exploration and Iteration
- 3. Realistic Rendering
- 4. Client Approval and Marketing:
- 5. Cost and Time Savings
- 6. Collaboration
- 7. Furniture Selection
- 8. Price Procurement for Interior Finishes

BIM Workflow

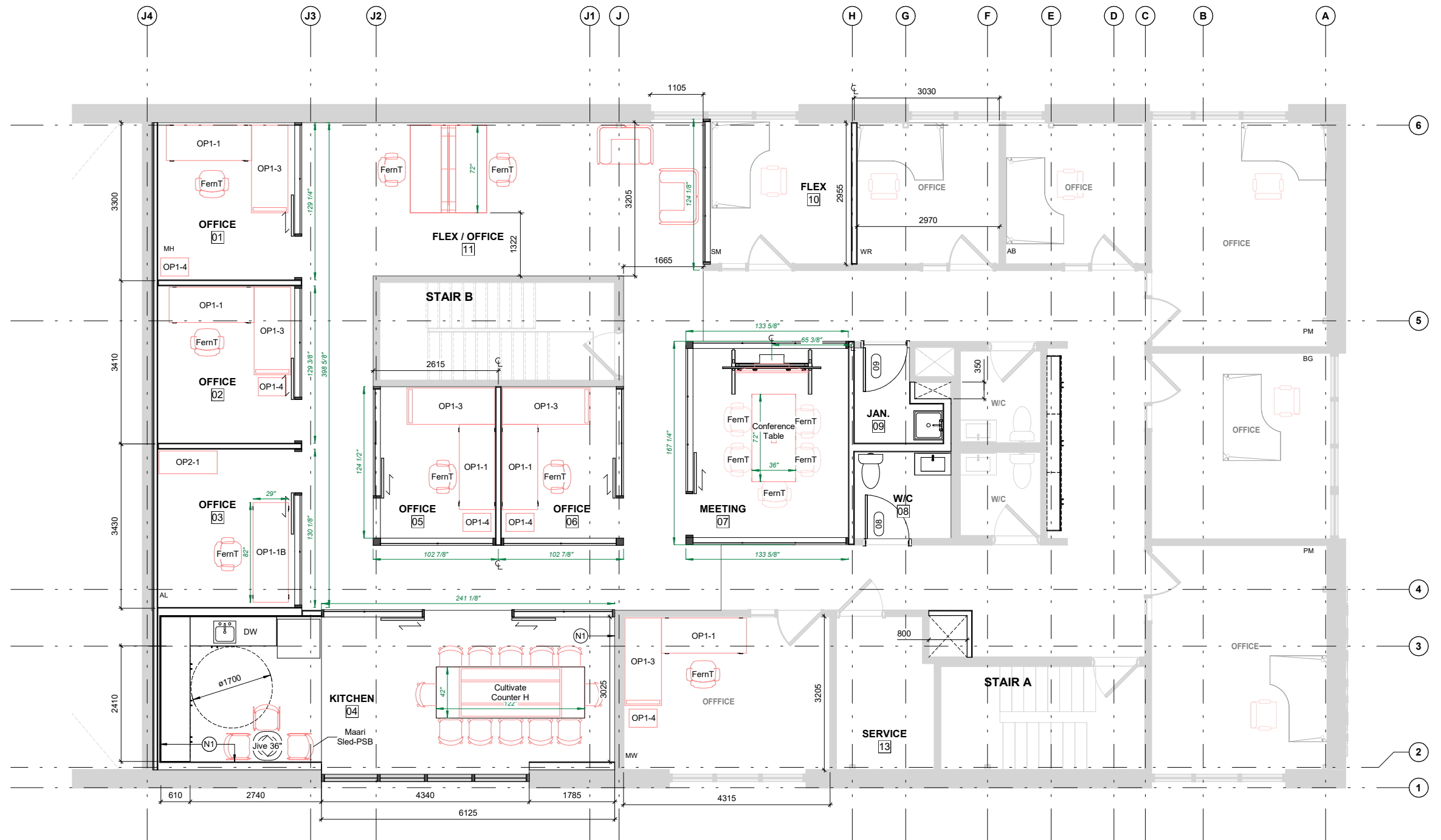


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1 LEVEL 02 - PROPOSED ENLARGE
A202B 1 : 50

BIM Workflow

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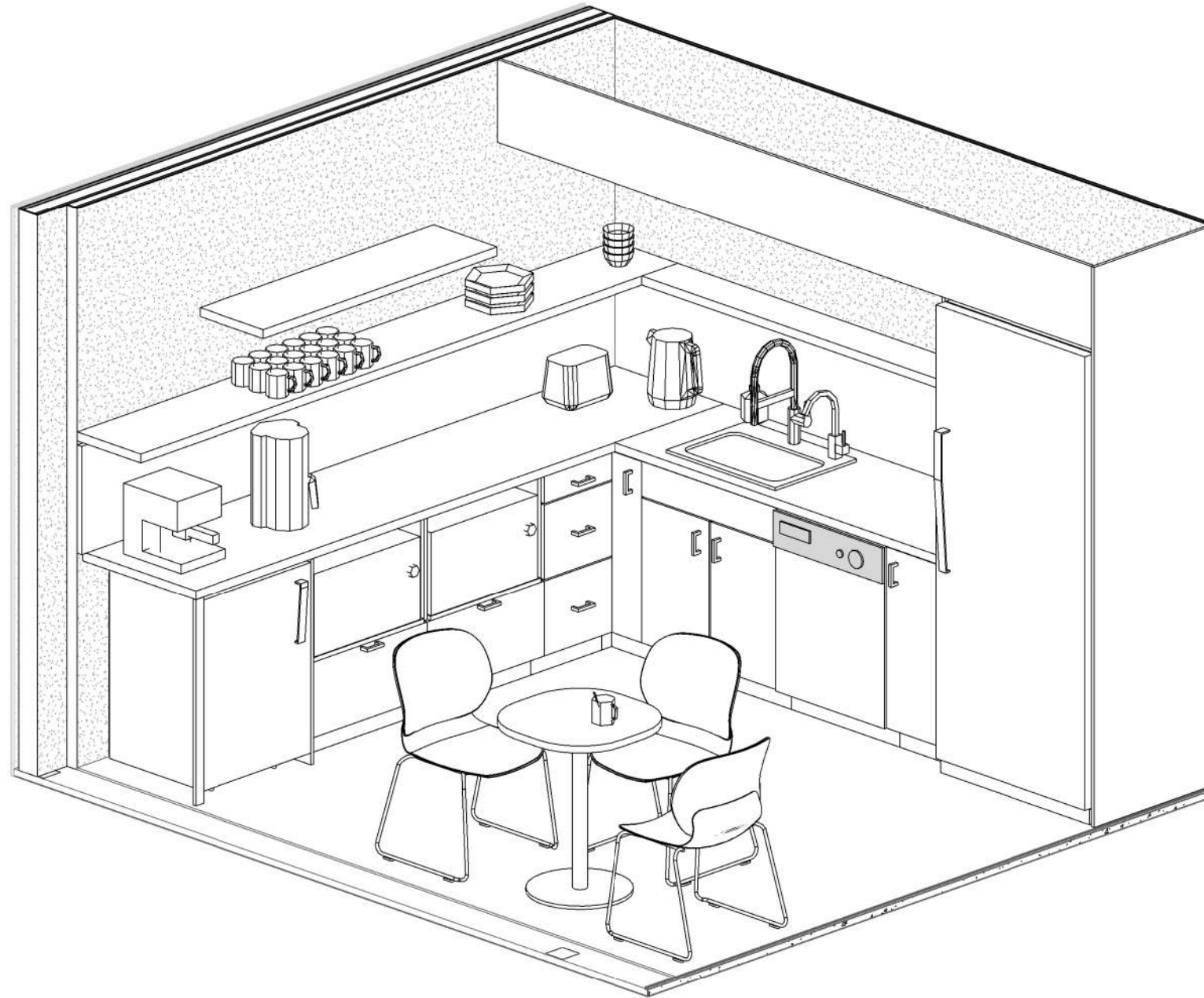
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BIM Workflow

