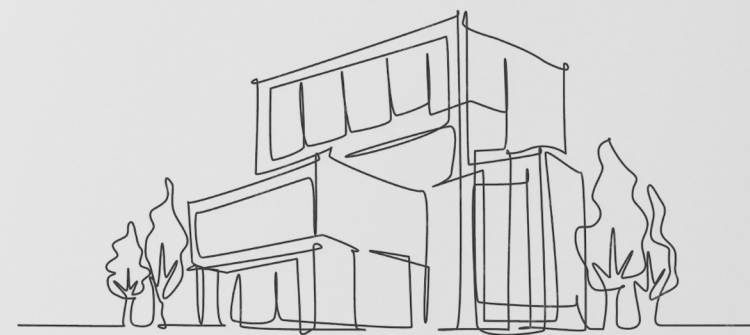


THANKS

# PORTFOLIO



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2022  
□  
2024

TANISH BANSAL



## TANISH BANSAL



"Hello, I'm Tanish Bansal.  
I recently completed my Architectural Technician program at  
Sheridan College of Architecture in Mississauga, Ontario, Canada,  
graduating in April 2024.

I am thrilled to introduce myself as a newly minted architect,  
ready to embark on an exciting journey in the world of design  
and construction. With a fresh perspective and a deep  
passion for creating meaningful spaces, I am eager to bring  
innovative and sustainable solutions to life.

## WELCOME

Welcome to my Architecture Portfolio

Thank you for visiting my portfolio. Here, you will find a curated selection of my work,  
showcasing my passion for creating spaces that are both beautiful and functional. My  
approach to architecture is rooted in a deep appreciation for design, sustainability, and  
innovation.

Each project featured in this portfolio reflects my dedication to delivering thoughtful and  
inspiring solutions that meet the unique needs of my clients. From initial concept to final  
execution, my work spans a variety of styles and functions, all designed to enhance the  
way we live, work, and interact with our environment.

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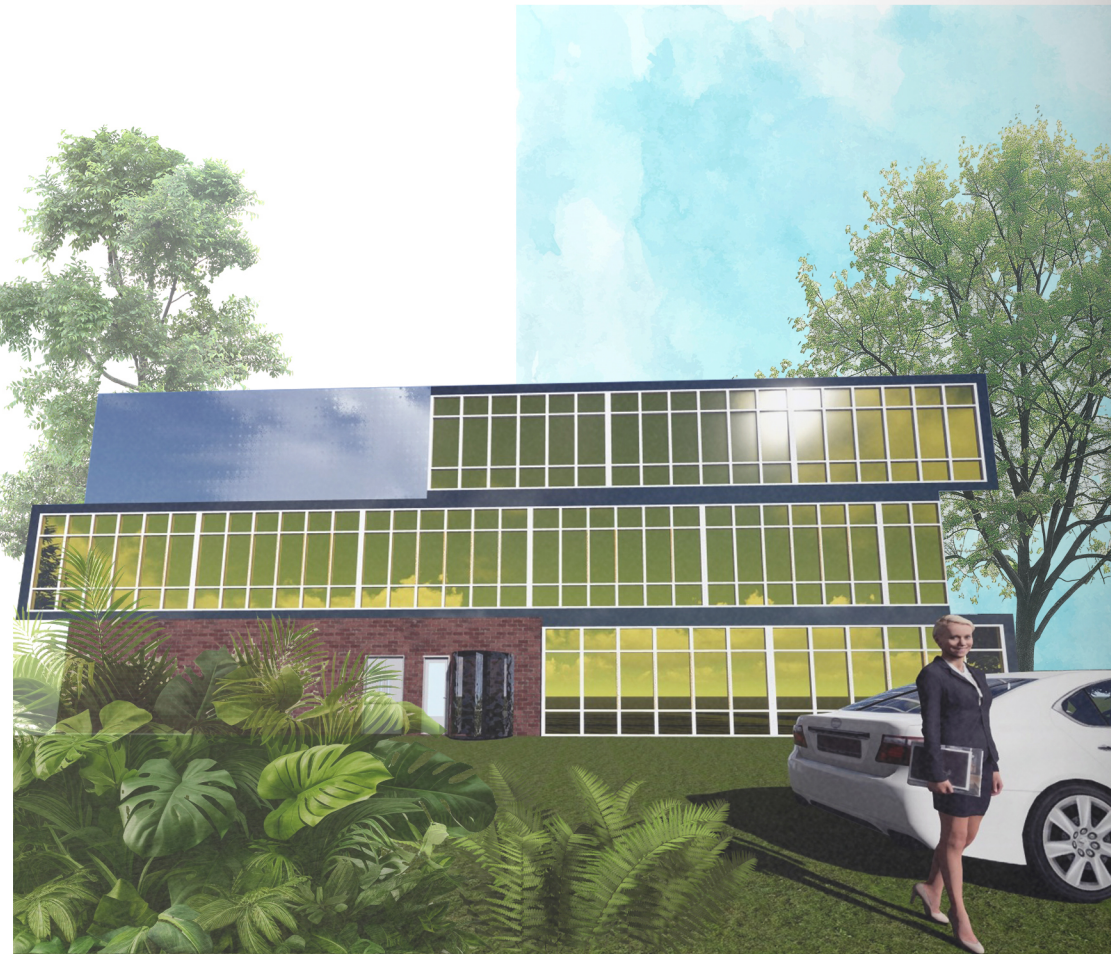
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Two-Storey Single Family House in Mississauga

26-29



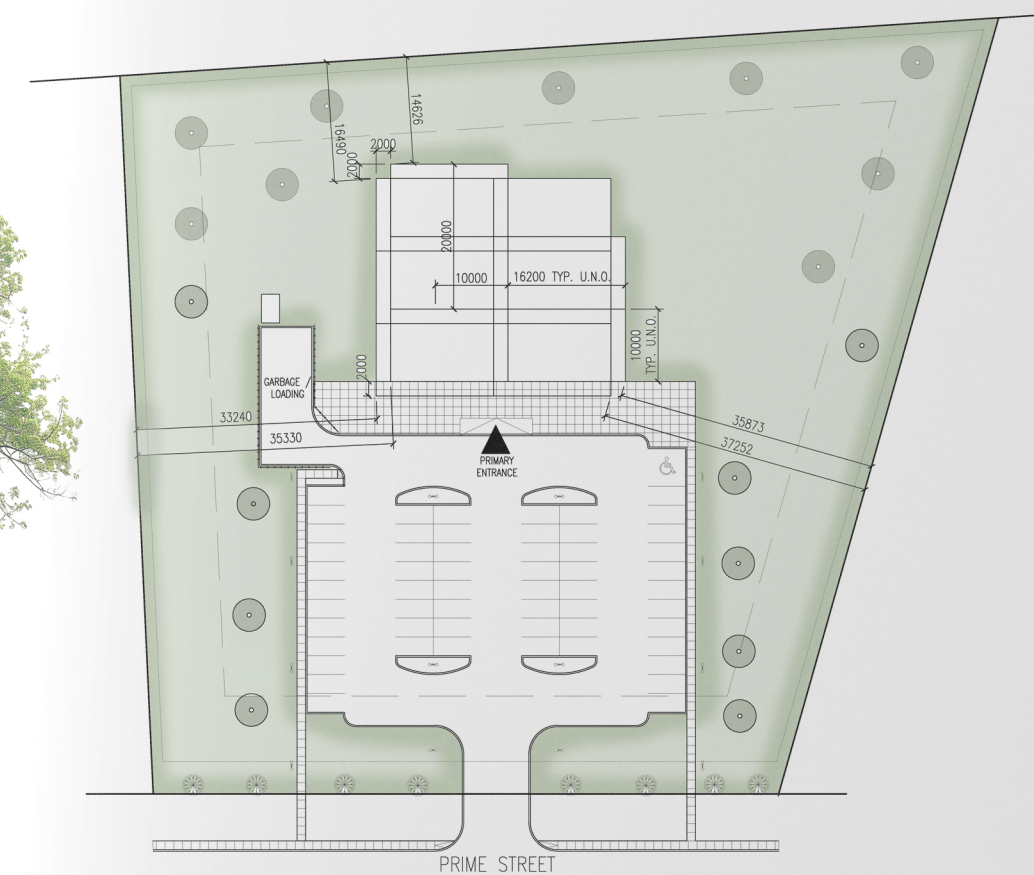
## 01. C CAPITAL



This project entails the design of a three-story commercial building for Burlington Builders, adhering to both Ontario Building Codes and municipal zoning bylaws. The building consists of a mercantile space on the first level and office spaces on the second and third floors.

**Design Emphasis:** The design emphasizes contemporary aesthetics and maximizes natural lighting throughout the structure. This is achieved through the utilization of curtain walls on all four sides, along with aluminum siding and brick cladding on the front façade.

02



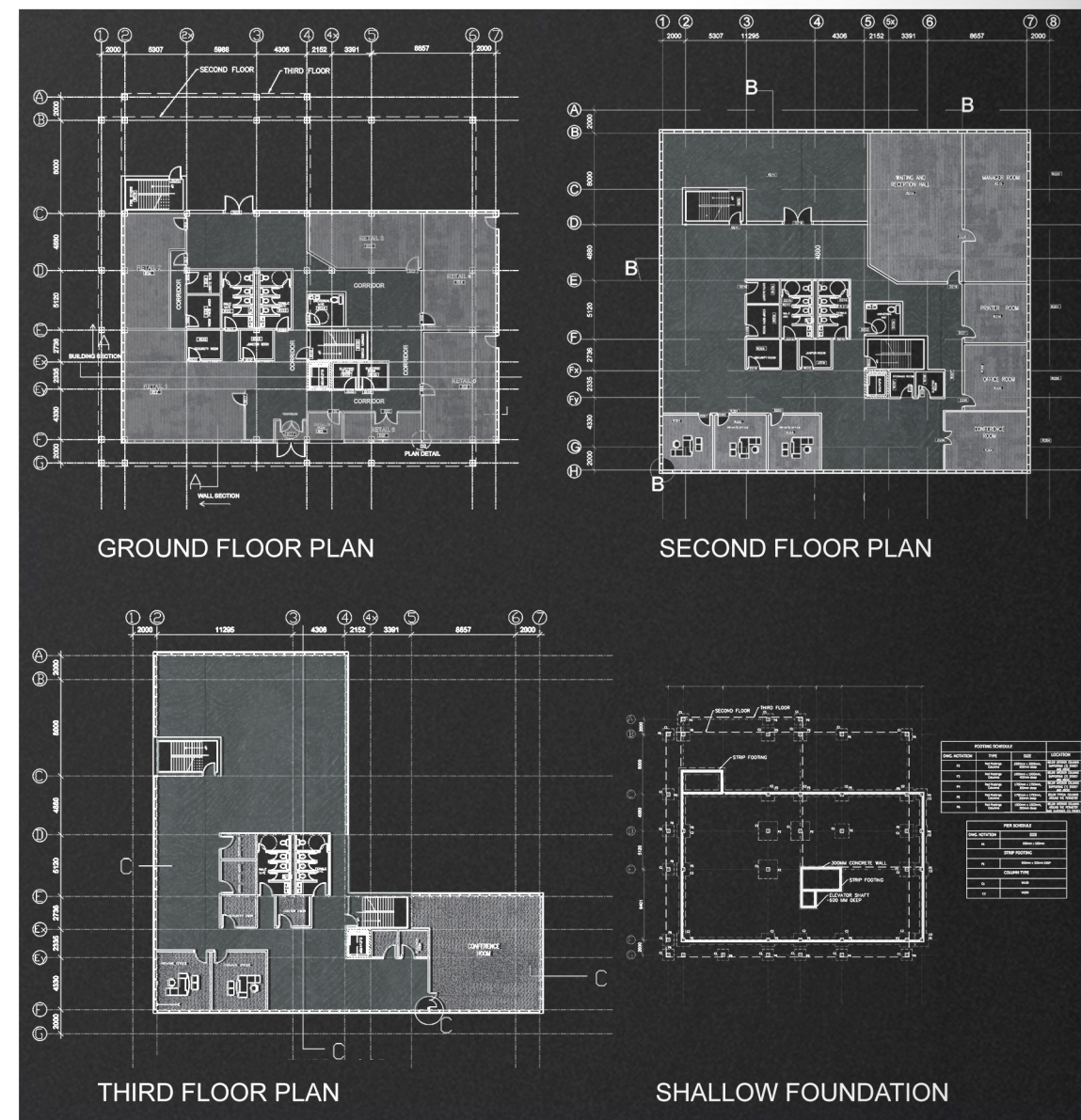
SITE PLAN

### KEY FEATURES

- **Curtain Walls:** Used extensively to allow ample natural light into the building, promoting energy efficiency and a bright interior environment.
- **Aluminum Siding and Brick Cladding:** Employed on the front façade to provide a visually striking and durable exterior, blending modern design elements with traditional materials.
- **Functional Zoning:** The building's layout is carefully planned to accommodate mercantile space on the ground floor for retail purposes, while office spaces occupy the upper floors for a balanced and efficient use of space.

03

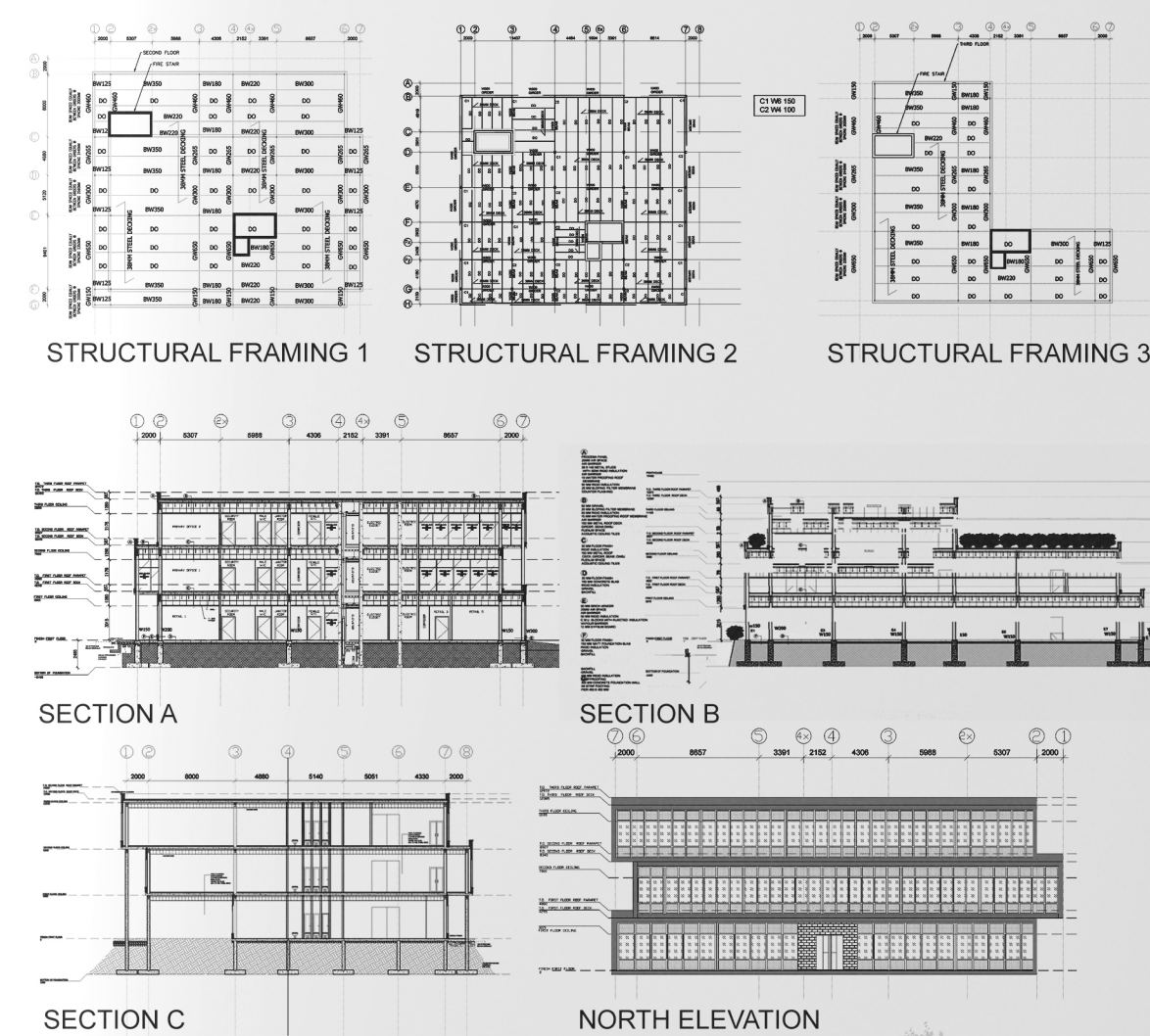




#### Objectives Achieved:

- **Contemporary Design:** The incorporation of curtain walls and modern cladding materials gives the building a sleek and contemporary appearance, meeting the aesthetic preferences of modern commercial spaces.
- **Natural Lighting:** Prioritizing natural light not only enhances the interior ambiance but also reduces energy consumption, aligning with sustainable design principles.
- **Code Compliance:** Adhering to Ontario Building Codes and municipal zoning bylaws ensures that the building is safe, functional, and legally compliant.

**Conclusion:** The Burlington Builders Commercial Building offers a modern, functional, and aesthetically pleasing space for commercial activities while prioritizing sustainability, compliance, and contemporary design principles.

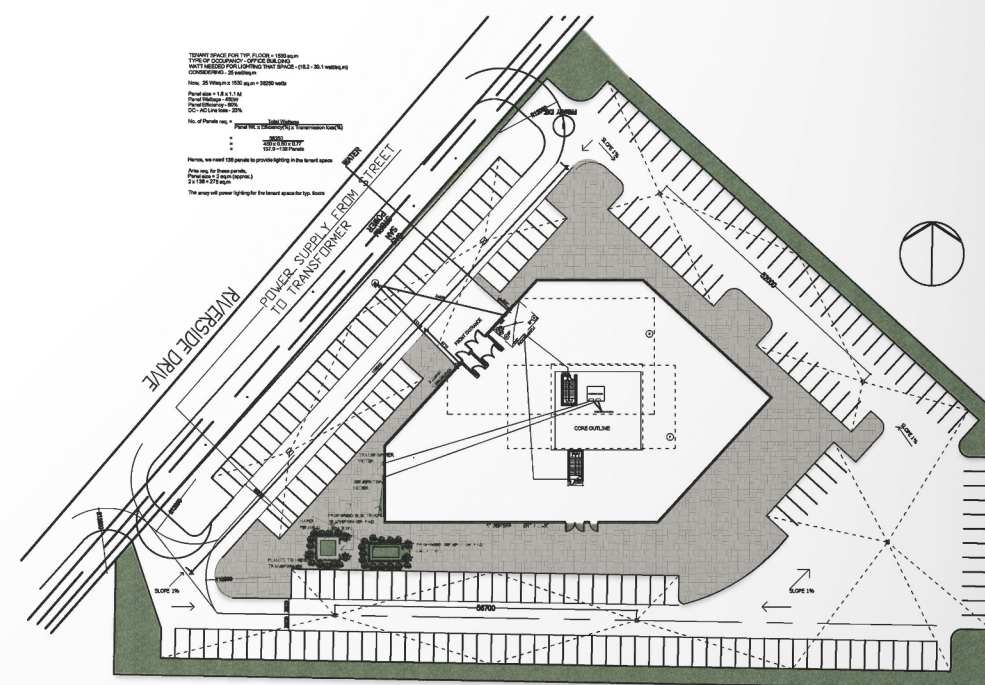
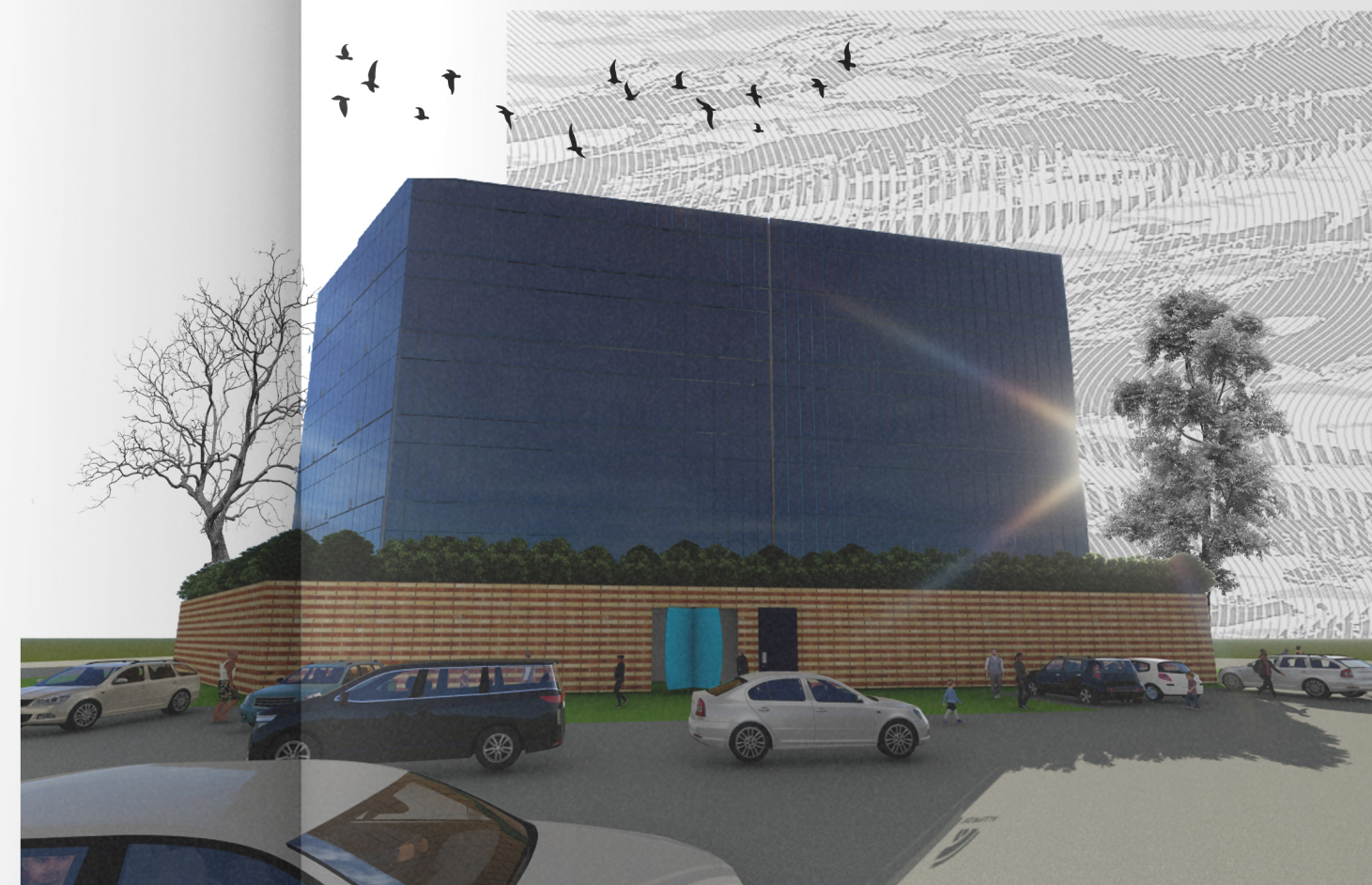




## 02. D ZOHNS

A 6-storey commercial building is being proposed, that includes retail space, office space, and lounge/seating area. Due to these spaces, the proposed building will fall under Division D & E. The ground floor is 2380 sqm, and every floor above contains an area of 2130 sqm.

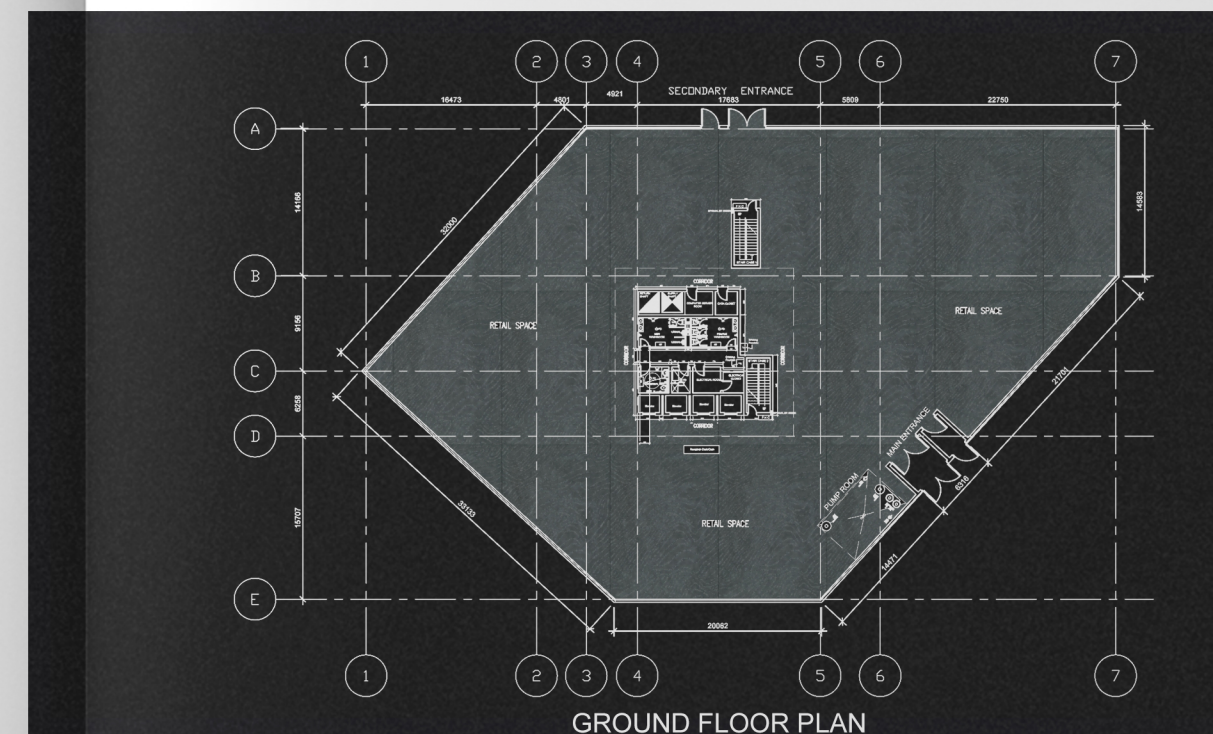
The total occupancy load for this building is mainly based on design, leading to a total occupancy of 1401. The cladding being used for the exterior walls will be a metal façade as it offers a sleek, modern look. A glazed curtain wall is also used for aesthetic purposes and to allow natural sunlight into the building. Exit stairwells are found on either side of the building, one passes through the corridor and the other leads straight outside.



SITE PLAN

NO.	DESCRIPTION	AREA (SQM)
1	Building Footprint	12,500
2	Parking Area	1,500
3	Landscaping Area	500
4	Access Road	200
5	Driveway	100
6	Storage Area	100
7	Other	100
<b>Total</b>	<b>Grand Total</b>	<b>15,900</b>

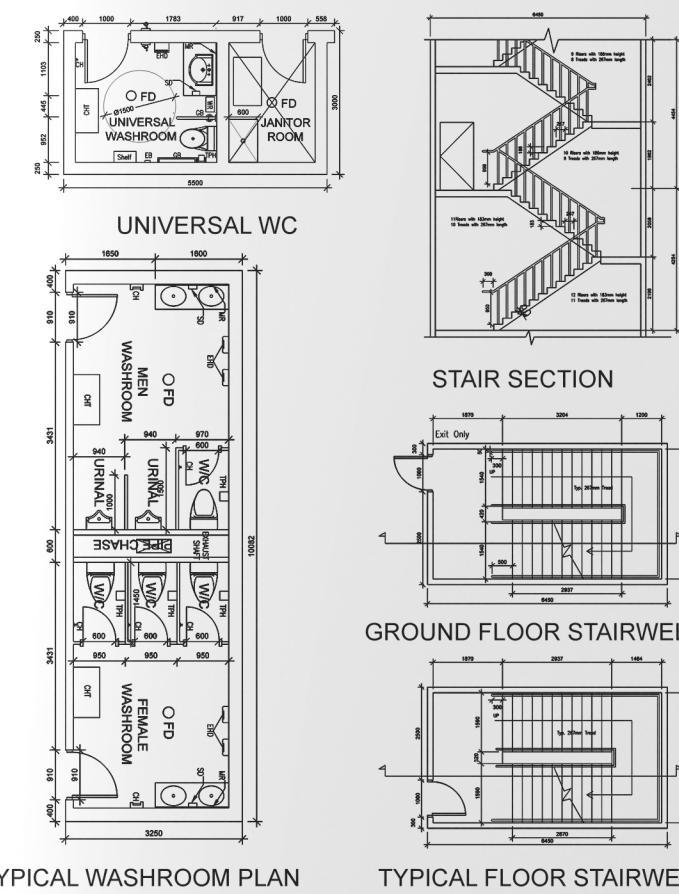
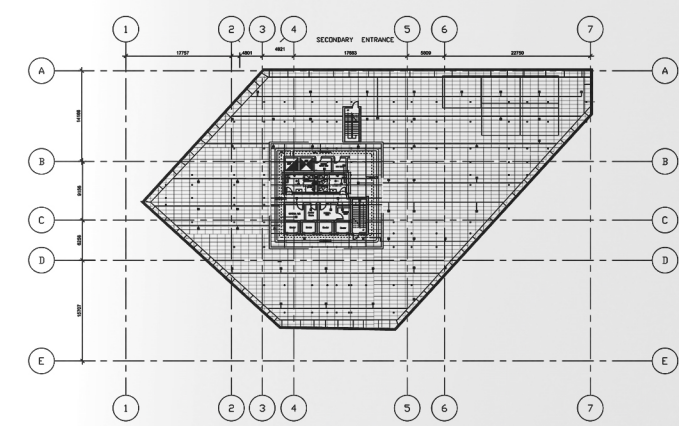
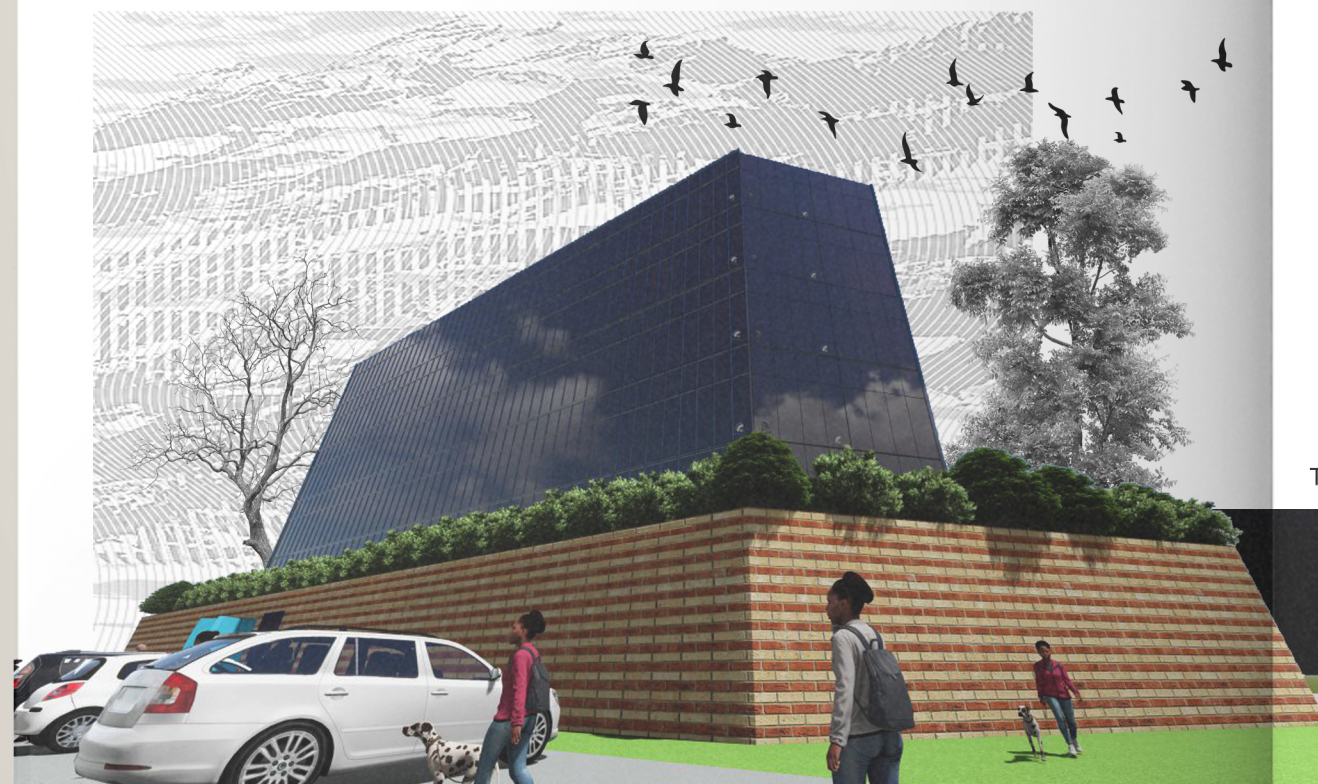
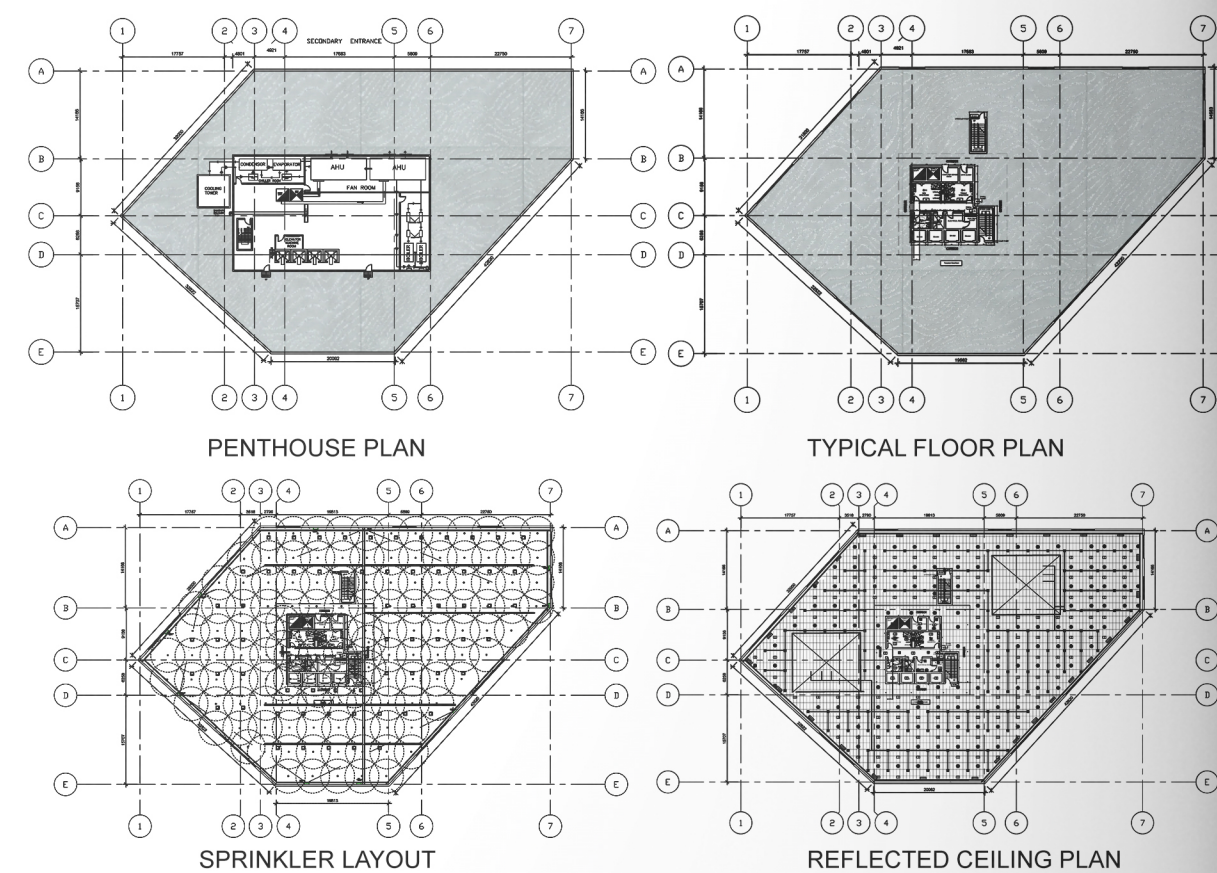
06



GROUND FLOOR PLAN

07

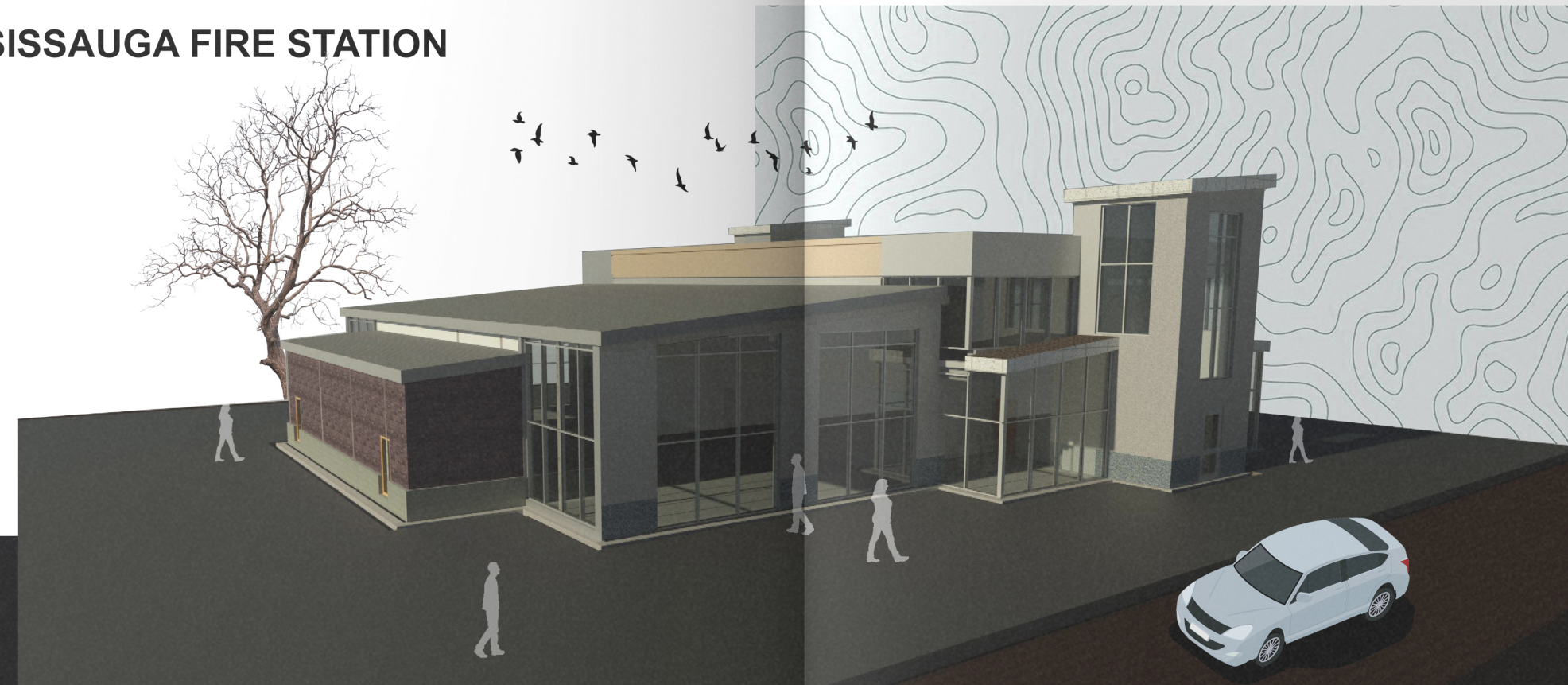




The total occupancy load for this building is mainly based on design, leading to a total occupancy of 1401. The cladding being used for the exterior walls will be a metal façade as it offers a sleek, modern look. A glazed curtain wall is also used for aesthetic purposes and to allow natural sunlight into the building. Exit stairwells are found on either side of the building, one passes through the corridor and the other leads straight outside.



### 03. MISSISSAUGA FIRE STATION



#### Project Title: Two-Storey Fire Station, Mississauga

As an architecture student, I designed a modern two-storey fire station in Mississauga, focusing on integrating essential fire safety features with contemporary amenities and training facilities.

##### Key Features:

1. Fire Safety Integration: The design prioritizes fire safety with materials and features such as aluminum metal cladding for exterior walls, and fire-resistant acoustic ceiling tiles for interior spaces.

##### 2. Functional Spaces:

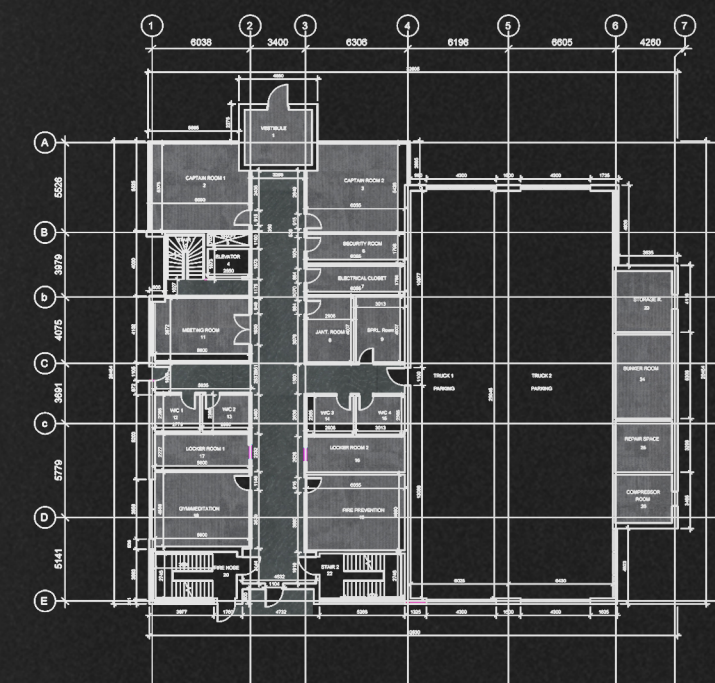
- Crew Cabin: Accommodates 8 staff members and 2 captains, providing comfortable and functional living quarters.

- Yoga and Gym Rooms: Ensures the physical well-being of the fire station staff.

- Library: Offers a quiet space for relaxation and personal development.

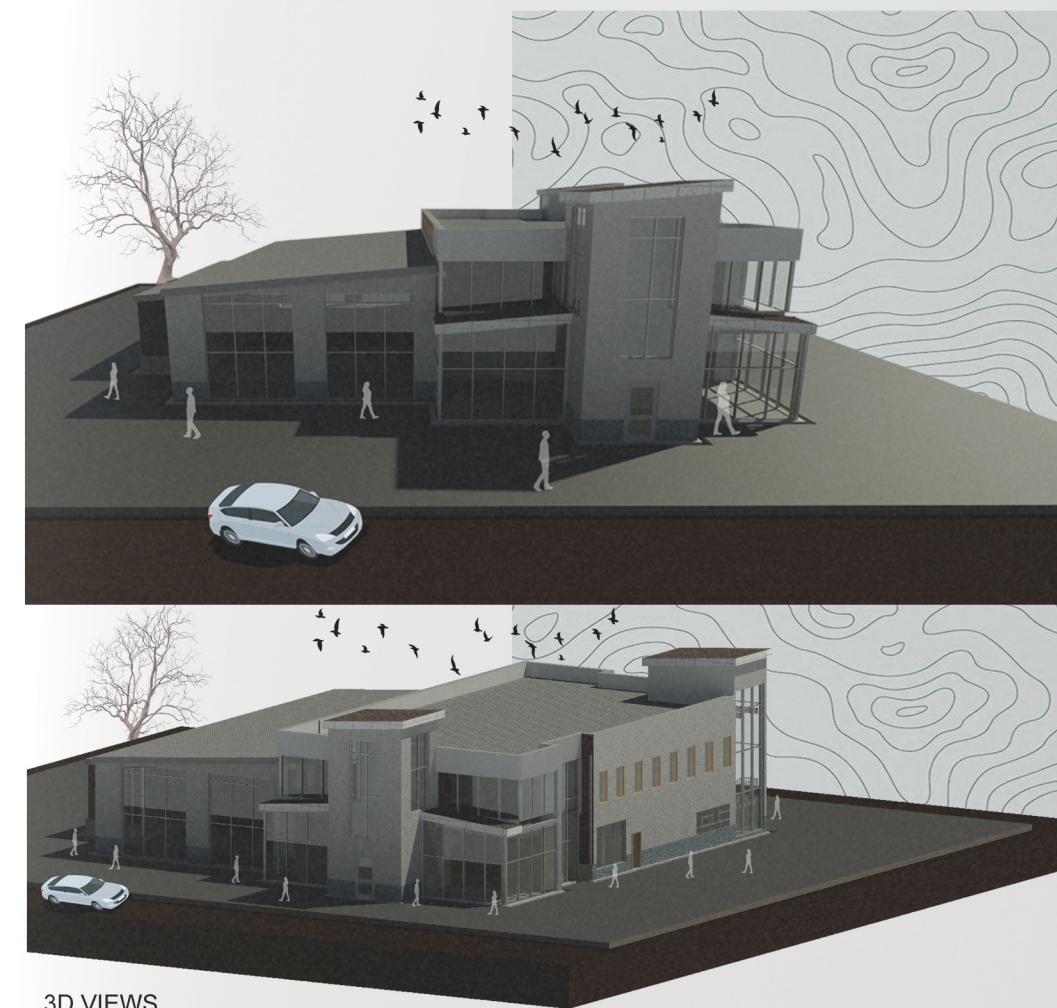
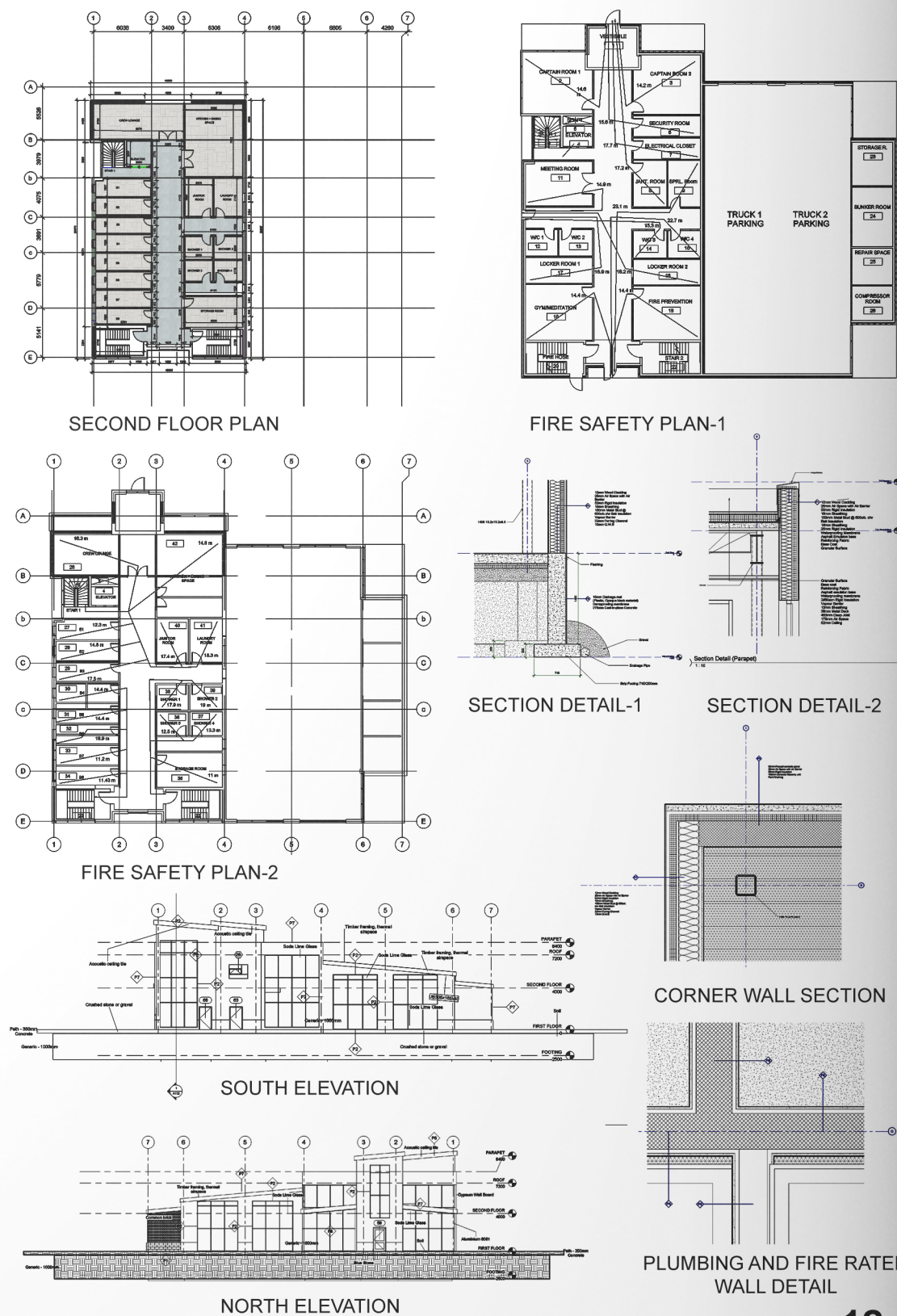
- Training Room: Equipped to train future city emergency service personnel, encouraging community involvement and preparedness.

3. Community Engagement: By including facilities like the training room, the fire station becomes a community hub, encouraging participation from the younger generation interested in emergency services.



GROUND FLOOR PLAN





#### Design Approach:

- **Modern Aesthetics:** The architecture features clean lines and contemporary design elements to blend functionality with visual appeal.
- **Sustainability:** Emphasis on environmentally friendly practices, with a focus on energy efficiency and resource conservation.

**Conclusion:** This project showcases a holistic approach to fire station design, balancing the practical needs of emergency services with the well-being of the personnel and community. By integrating modern amenities and training facilities, the fire station becomes a dynamic center for both emergency response and community engagement.



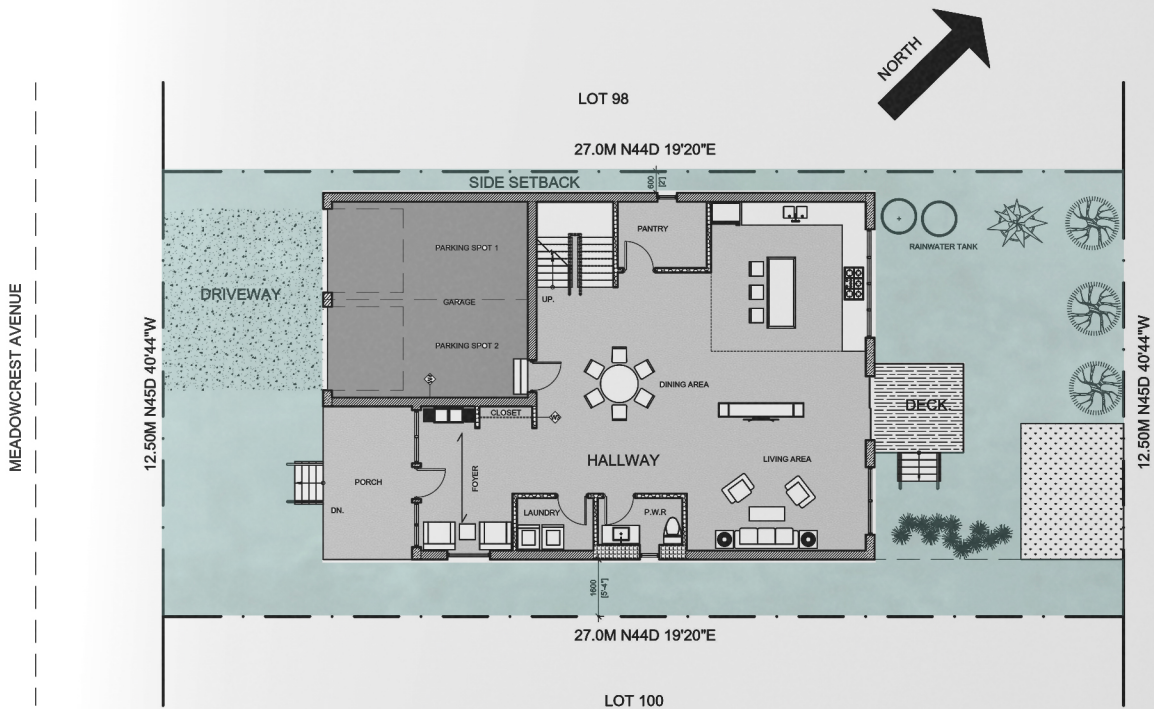
04. OAKVILLE RESIDENCE

Overview:

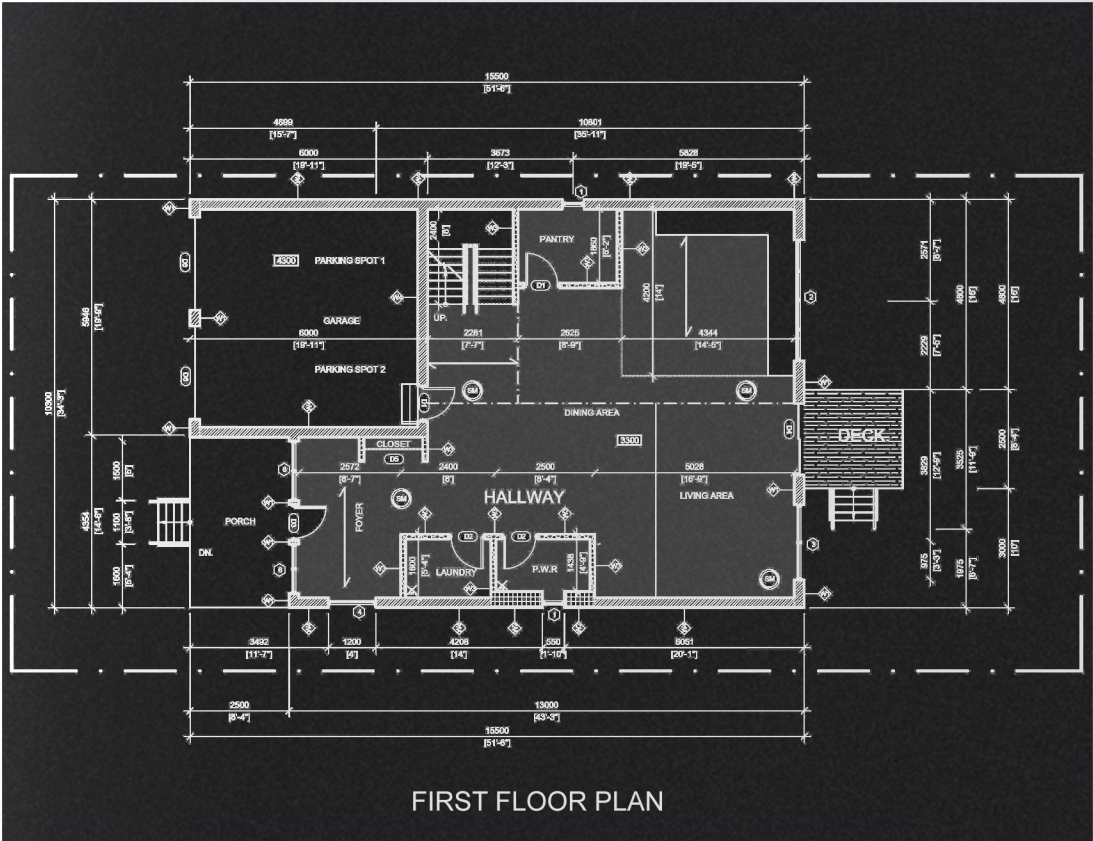
- Design of a two-storey single-family house located in OAKVILLE.
- Emphasis on modern material usage in cladding for structural appeal and sustainability.
- Compliance with Ontario Building Codes and adherence to all city zoning laws and regulations.

Key Features:

- **Structure:** Two-storey house with a spacious layout.
- **Bedrooms:** Two bedrooms on the ground floor, with a master bedroom on the second floor.
- **Living Space:** Open family room, kitchen, dining, and living area on the ground floor.
- **Airy and Spacious:** Ample natural light and open space designed into both levels of the house.

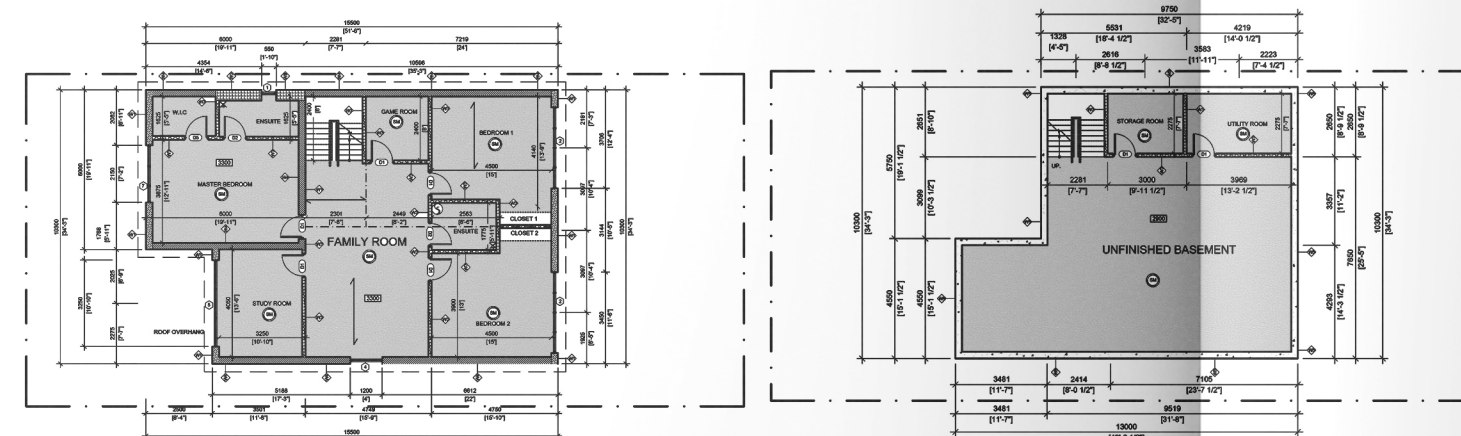


SITE PLAN



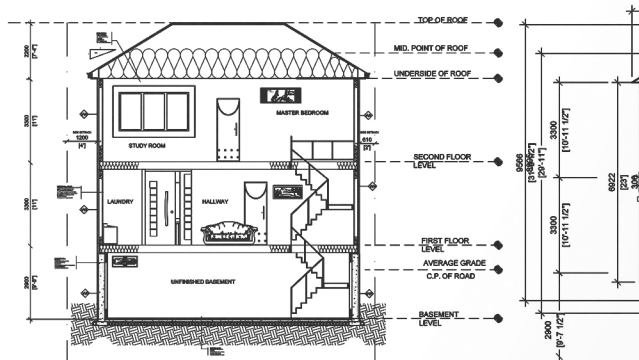
FIRST FLOOR PLAN





SECOND FLOOR PLAN

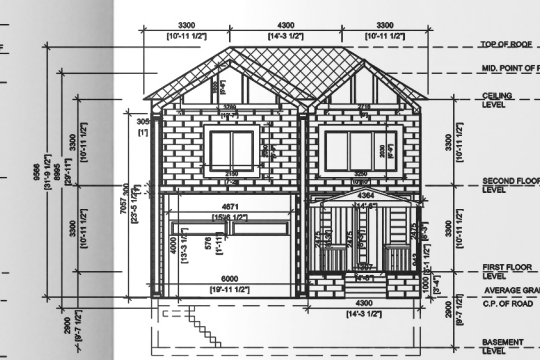
UNFINISHED BASEMENT PLAN



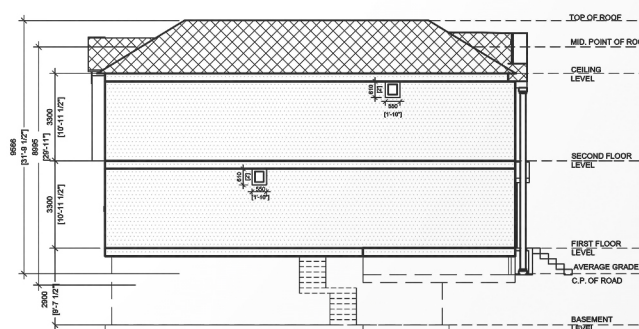
SECTION PLAN



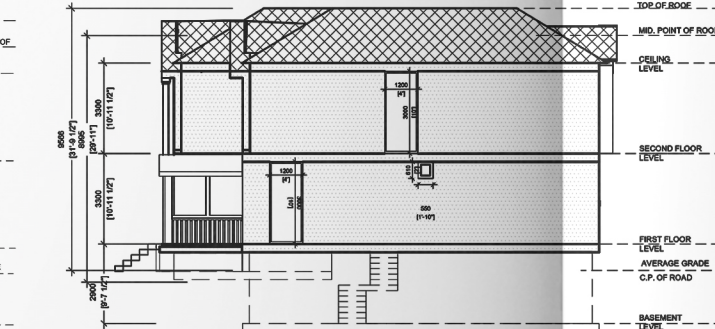
NORTH ELEVATION



SOUTH ELEVATION

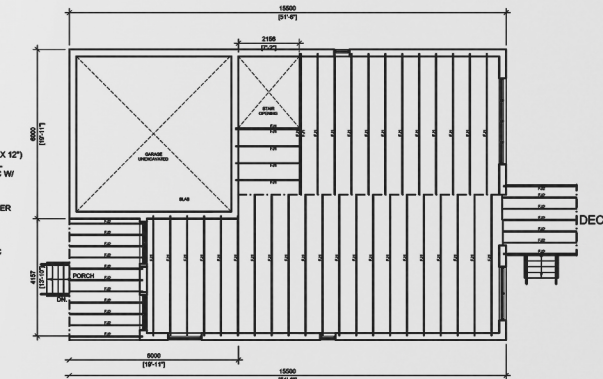


WEST ELEVATION

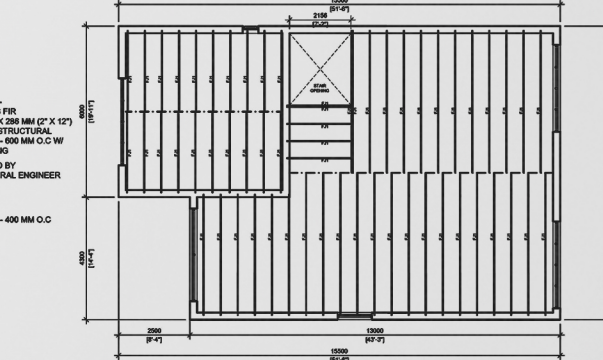


EAST ELEVATION

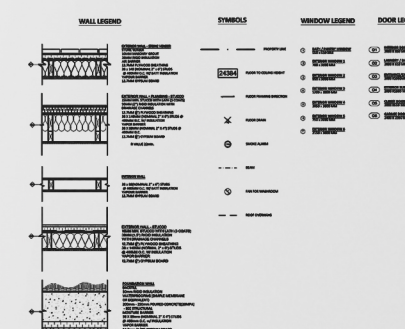
- LEGEND:
- DOUGLAS FIR
  - 2x4 @ 900 MM (3' x 12')
  - SPACING: 400 MM O.C.
  - STRAPPING
  - BEAM TIED BY STRUCTURAL ENGINEER
  - OPENING
  - SPACING: 400 MM O.C.



FIRST FLOOR FRAMING



SECOND FLOOR FRAMING



SYMBOLS & LEGEND

#### Design Goals:

- Utilize modern cladding materials for aesthetic appeal and structural integrity.
- Prioritize sustainability in design and construction.
- Comply with Ontario Building Codes and local zoning regulations.
- Create a functional and comfortable living space for a single-family household.

#### Benefits:

- Aesthetically pleasing design with modern materials.
- Environmentally friendly and sustainable features.
- Compliance with building codes ensures safety and legality.
- Spacious and airy living areas for comfortable living.

#### Conclusion:

The project aims to design a modern, sustainable single-family house in OAKVILLE, incorporating innovative cladding materials and complying with all relevant building codes and zoning laws. The result is a structurally appealing, environmentally conscious, and comfortable living space for a modern family.



5. RUTH RESIDENCE

Project Overview: Designed for a single-family residence, this two-story residential space is crafted to harmonize modern living with functional design. The highlight of the project is the attached garage seamlessly integrated into the first floor, providing both convenience and aesthetic appeal.

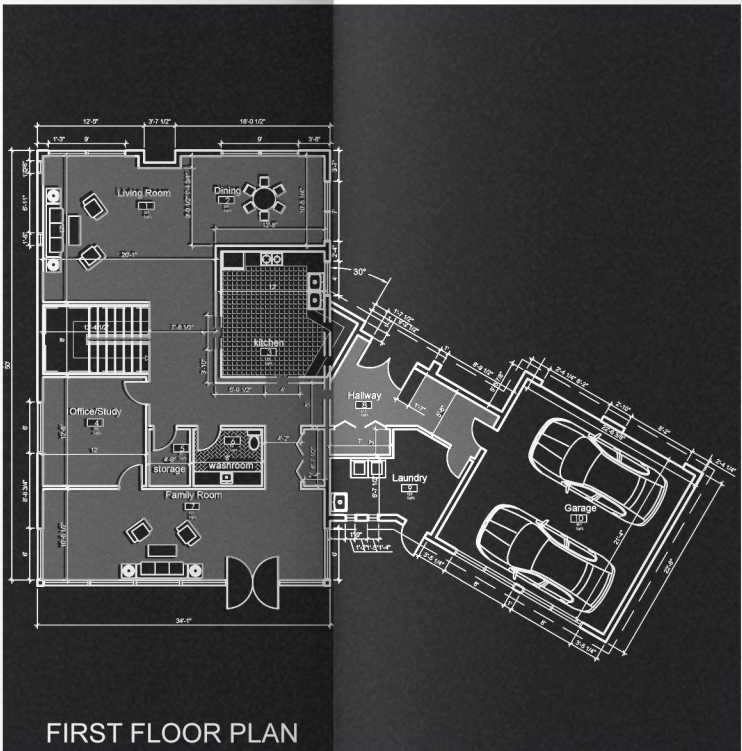
Design Concept: The design concept revolves around maximizing space efficiency without compromising on aesthetics. Each element of the design is meticulously planned to create a comfortable living environment while maintaining a contemporary architectural style.

Key Features:

- Two-Storey Layout: The residence features two stories to accommodate various living needs while optimizing space usage.
- Attached Garage: The first floor includes a conveniently attached garage, providing direct access to the residence and ensuring easy parking.
- Open Floor Plan: An open floor plan enhances the sense of spaciousness and promotes seamless movement between different areas of the house.
- Natural Light: Large windows and strategic placement of openings maximize natural light, creating a bright and inviting atmosphere throughout the residence.
- Modern Aesthetic: Clean lines, minimalist design elements, and carefully selected materials contribute to a modern and elegant aesthetic.
- Functional Spaces: Thoughtfully designed spaces, including bedrooms, bathrooms, kitchen, and living areas, prioritize functionality and comfort.

Design Considerations:

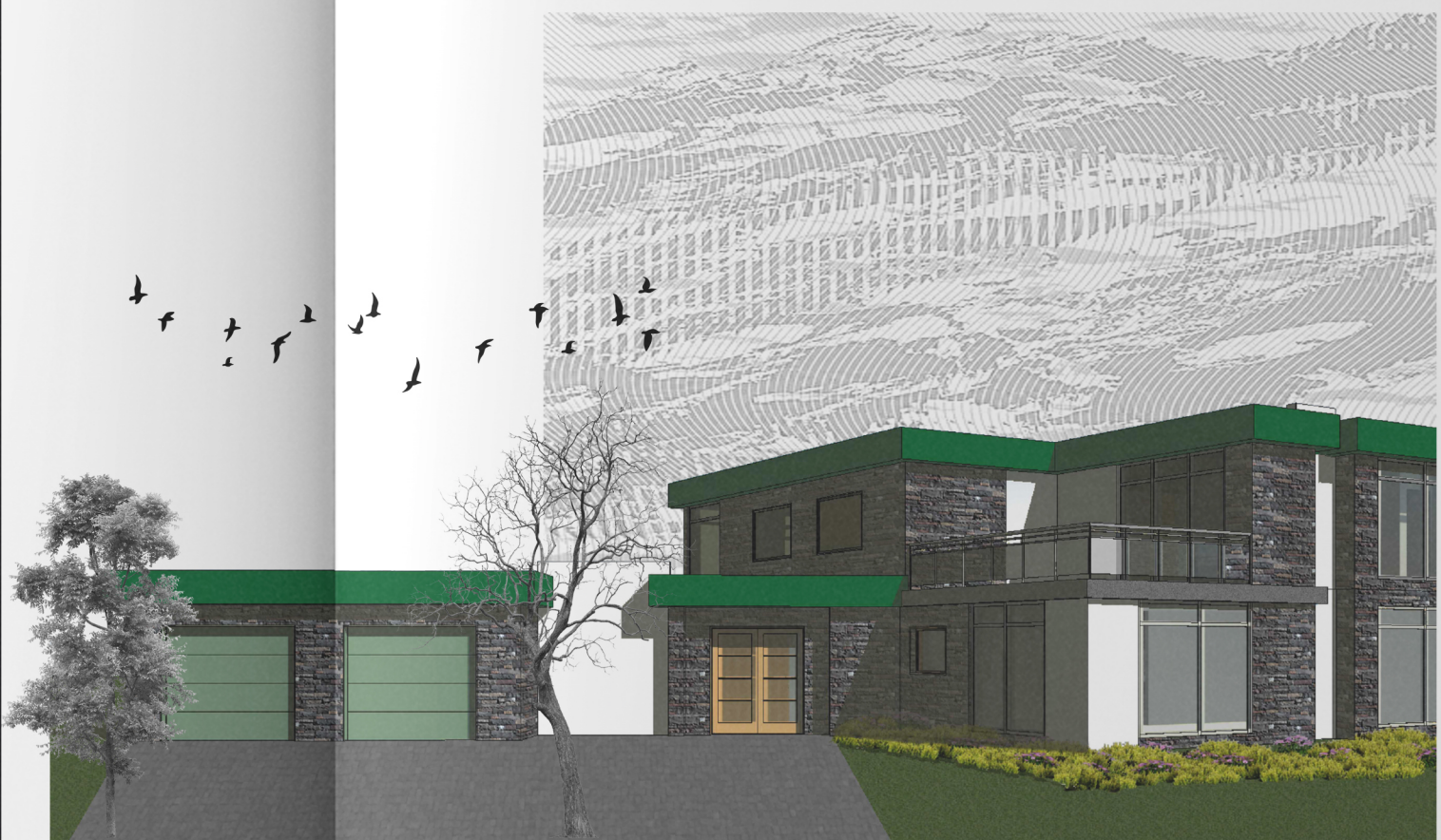
- Family Needs: The design is tailored to meet the needs of a modern family, providing ample space for relaxation, entertainment, and everyday living.
  - Site Integration: Consideration of the site's characteristics and surroundings influenced the design to ensure harmony with the environment.
  - Sustainability: Sustainable design principles are incorporated to enhance energy efficiency and minimize environmental impact.
- Conclusion: This residential space with an attached garage exemplifies a balance between functionality, aesthetics, and sustainability. Its design reflects a contemporary lifestyle while catering to the practical needs of a single-family household.



FIRST FLOOR PLAN



SECOND FLOOR PLAN







SOUTH ELEVATION

TYPICAL FLOOR PLAN

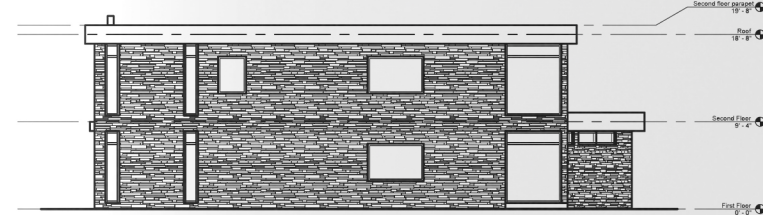


NORTH-EAST ELEVATION

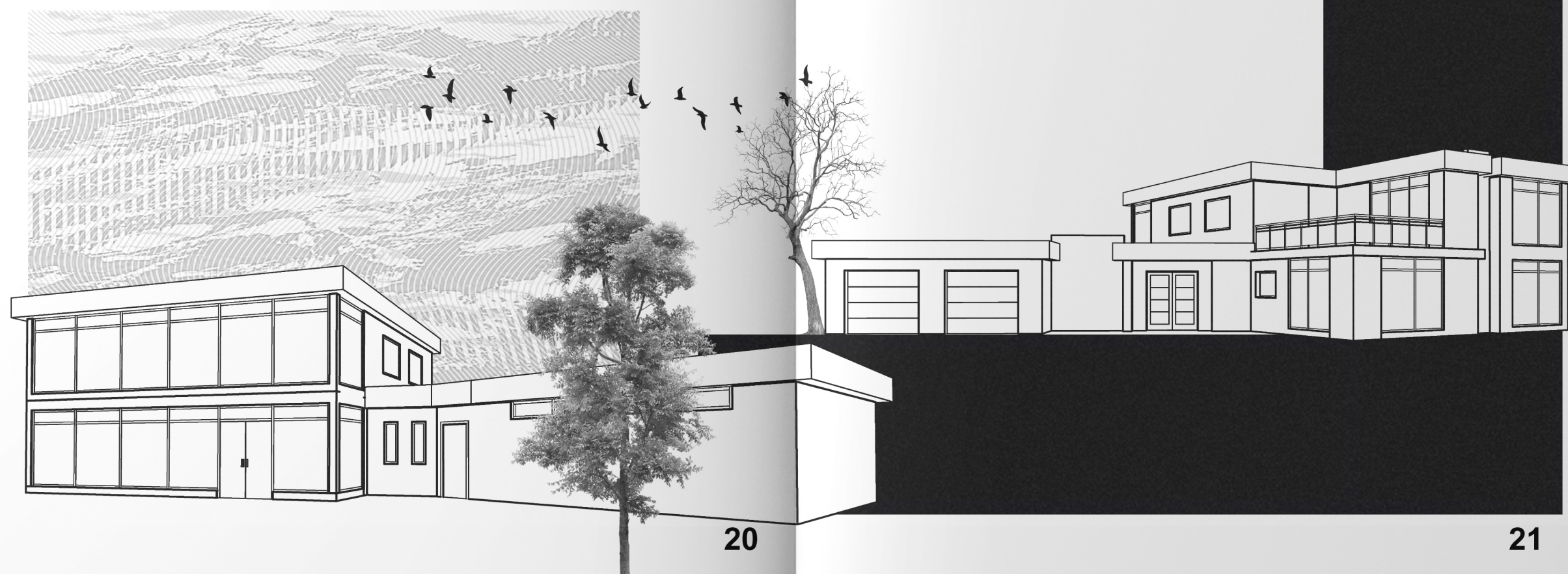


EAST ELEVATION

DUCT LAYOUT



WEST ELEVATION





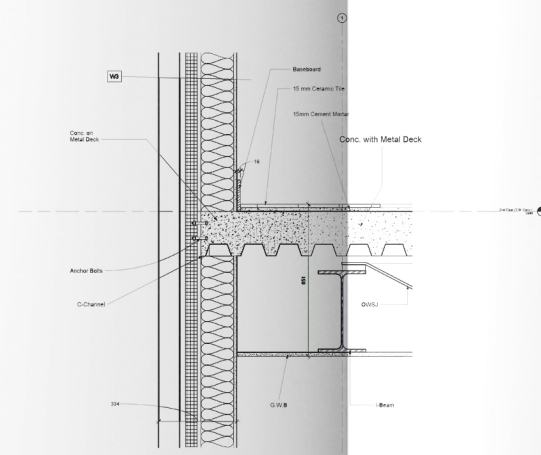
## 6. SHERIDAN COMMERCIAL

**Project Title: Sleek Commercial Space - Office with Attached Warehouse, Mississauga**

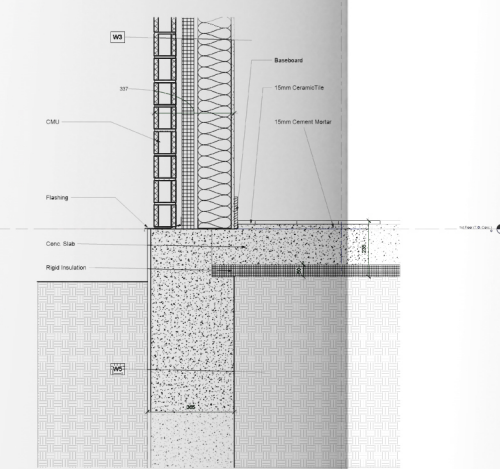
**Summary:** My design for this commercial space in Mississauga presents a sleek and minimalist solution for an office with an attached warehouse. The project embodies a contemporary aesthetic while prioritizing functionality, sustainability, and user experience.

### Key Features:

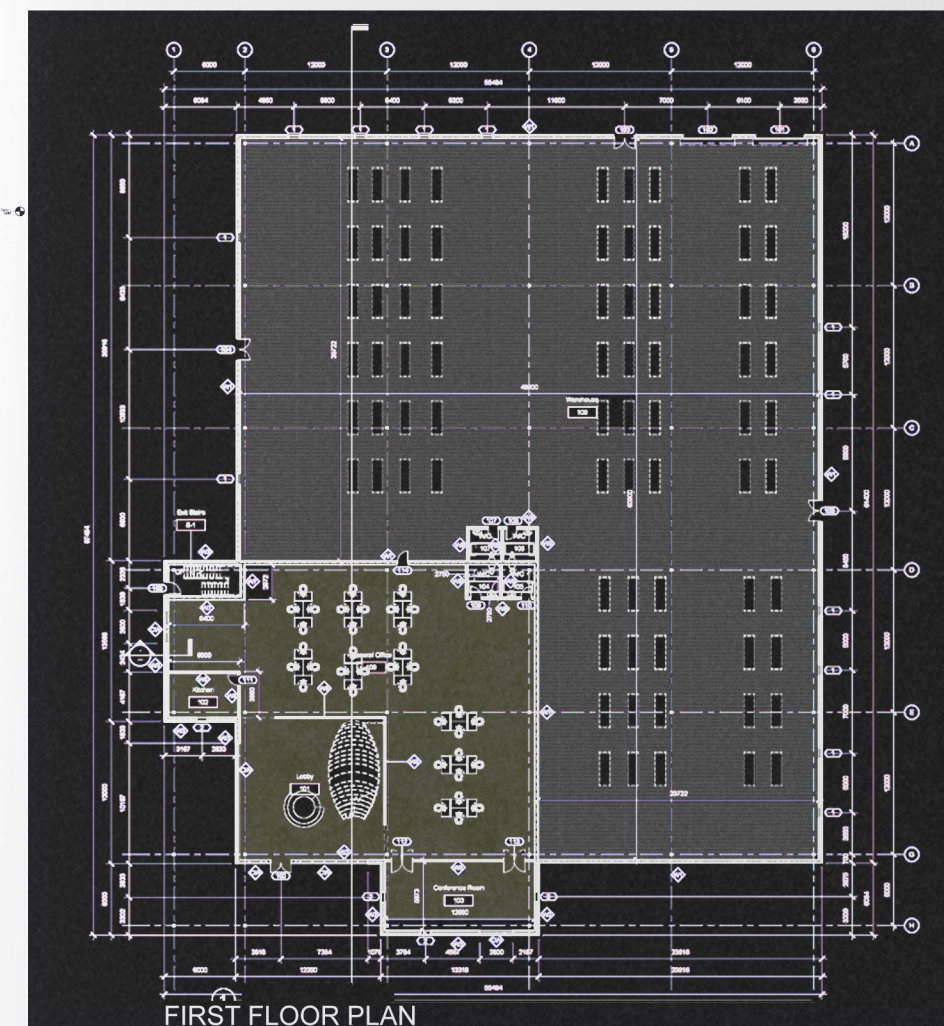
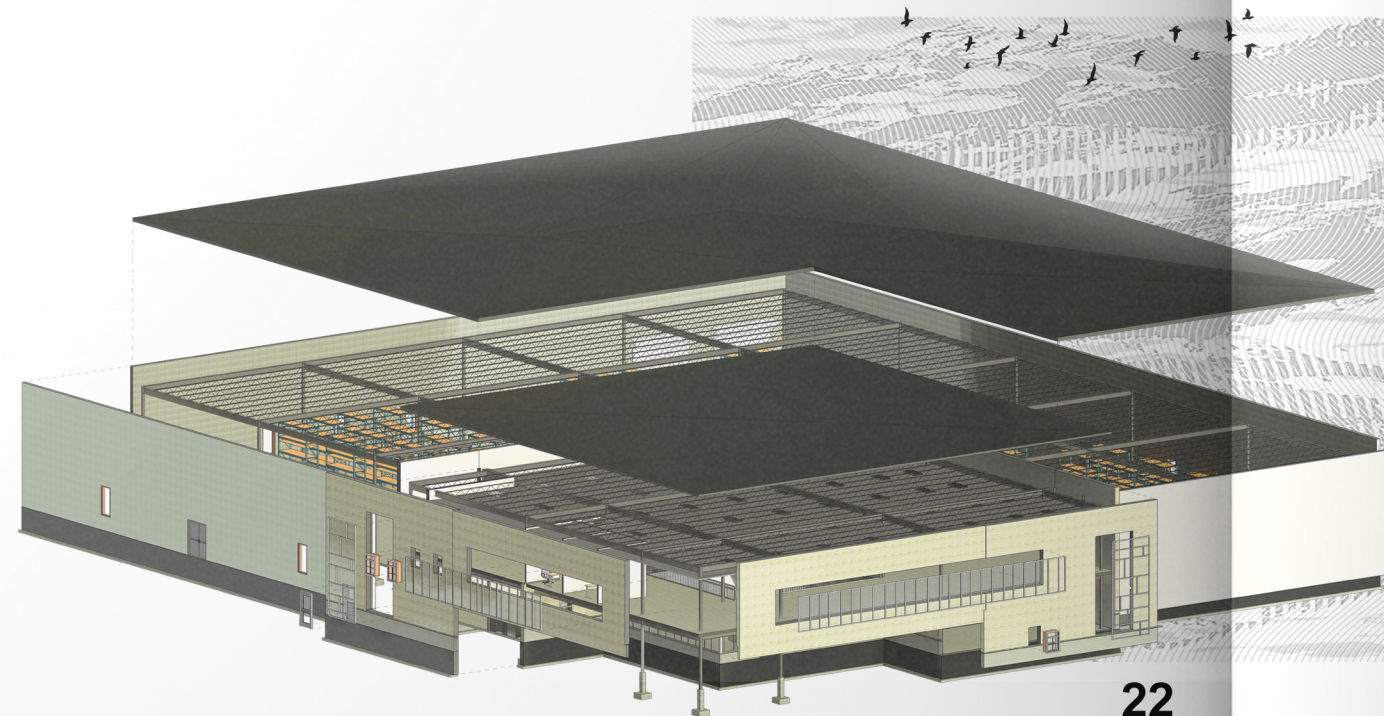
- **Functional Layout:** The layout maximizes productivity and efficiency by providing well-organized workspaces and circulation paths.
- **Minimalist Design:** Clean lines, neutral colors, and simple forms create a timeless and elegant aesthetic.
- **Natural Light Integration:** Ample natural light floods the interior through large windows and skylights, enhancing the workspace's atmosphere and reducing energy consumption.
- **Flexible Spaces:** The design includes adaptable areas to accommodate various activities and future changes in requirements.
- **Sustainable Elements:** Sustainable materials and features promote environmental responsibility and contribute to a healthier indoor environment.
- **Urban Context:** Consideration of the urban context ensures the space aligns with the city's dynamics and accessibility.



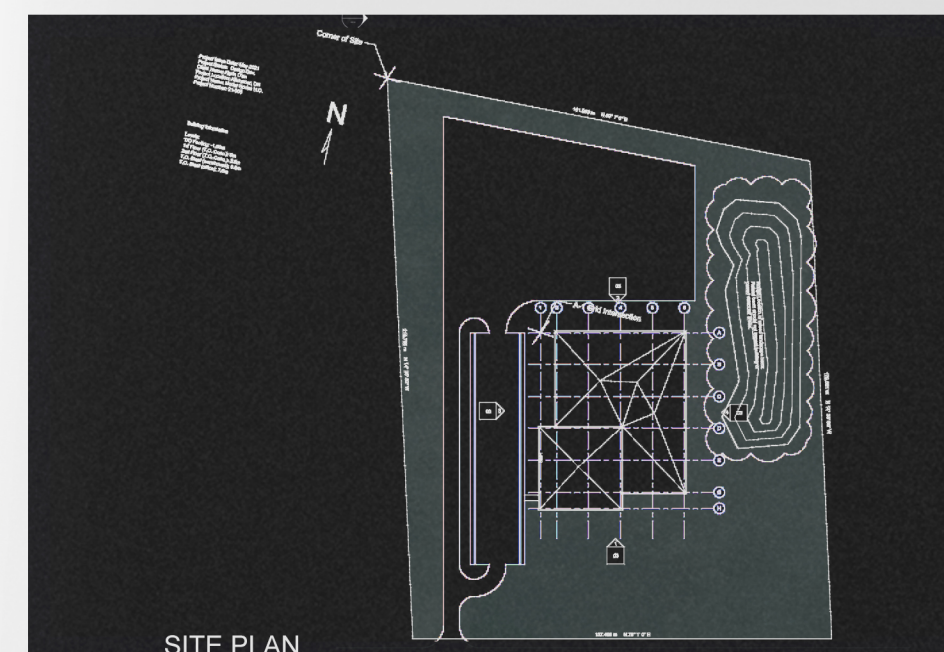
## EXT. WALL & FLOOR ASSEMBLY



FOUNDATION WALL &amp; EXT. WALL

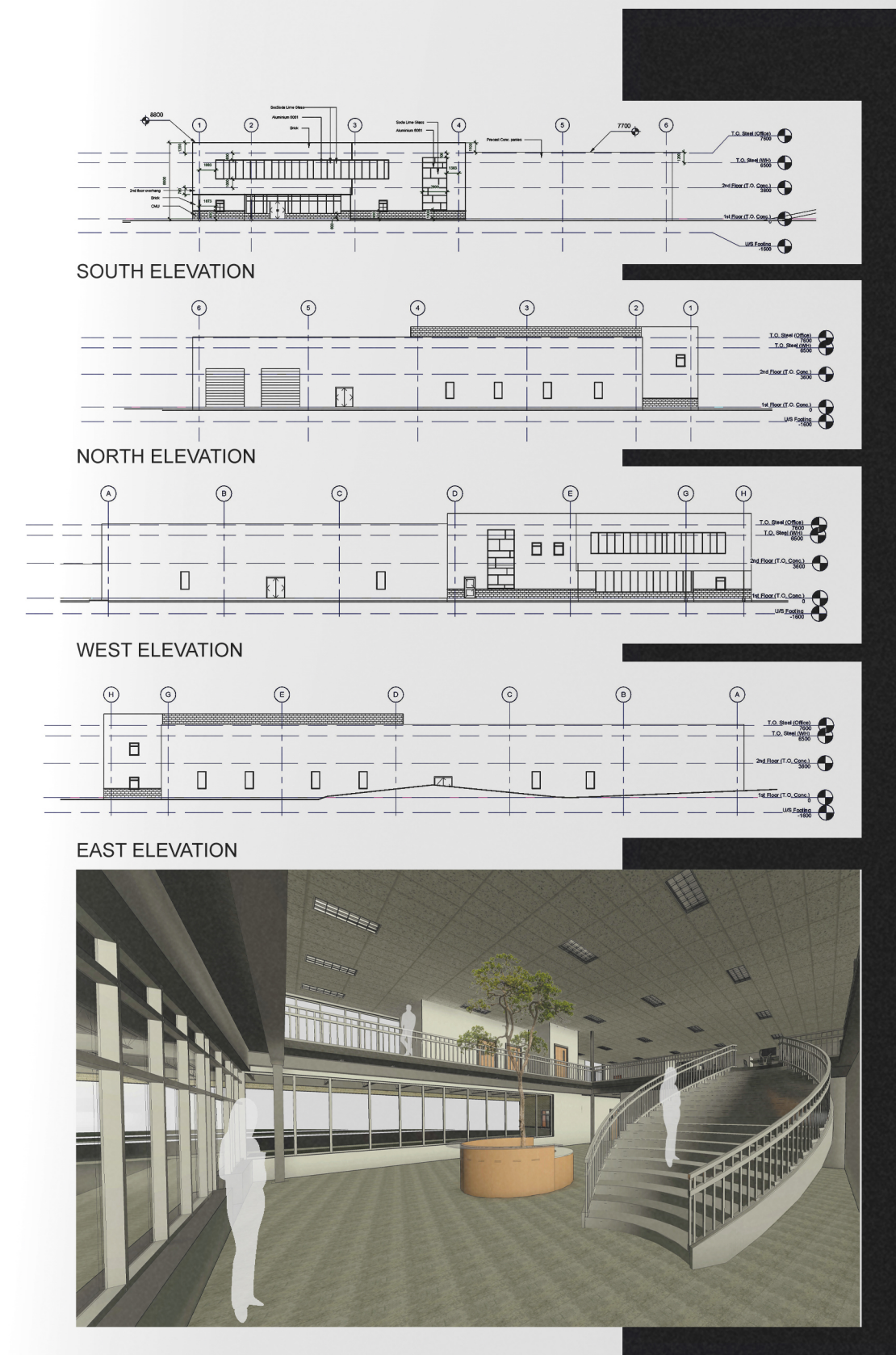
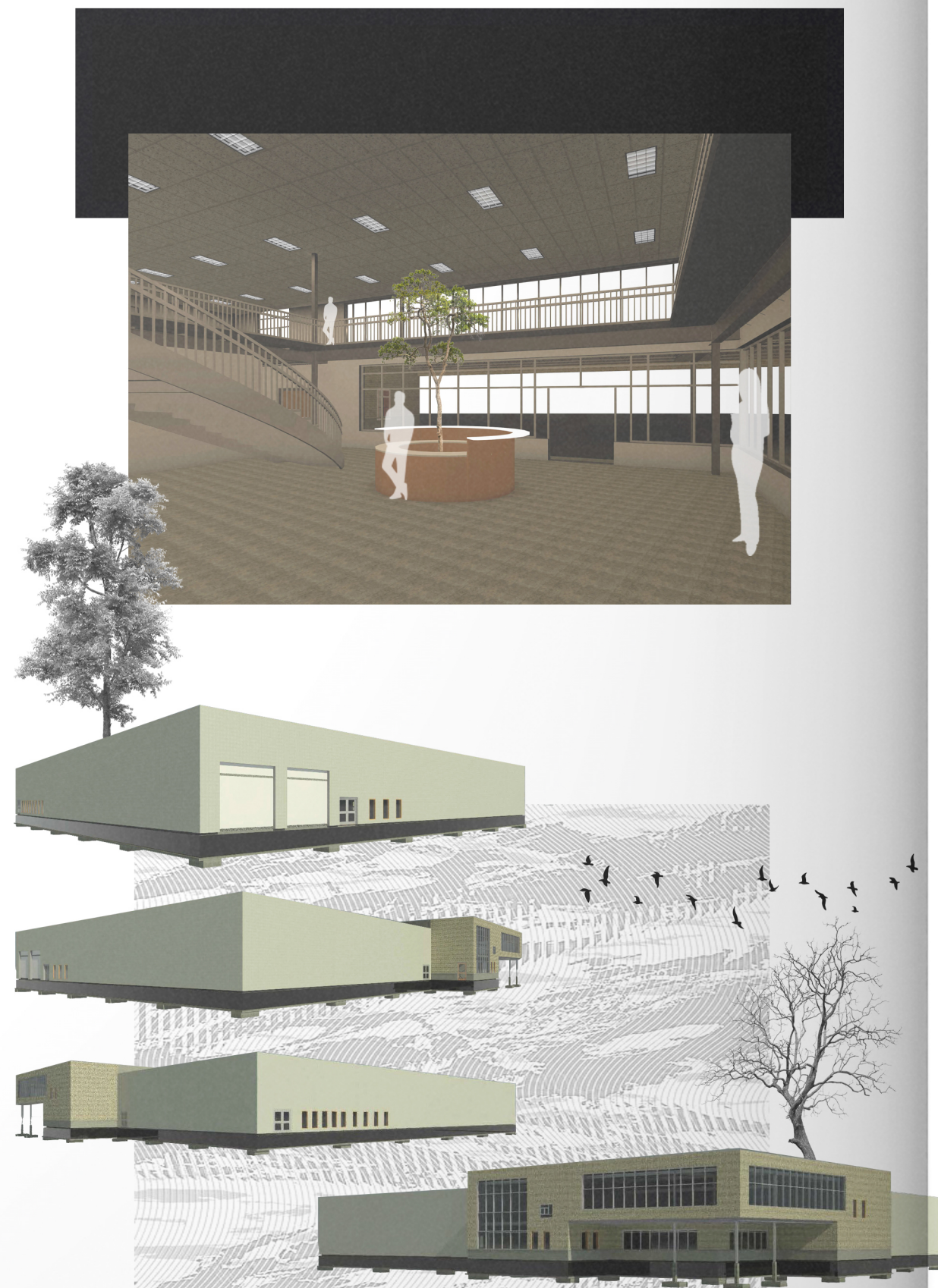


FIRST FLOOR PLAN

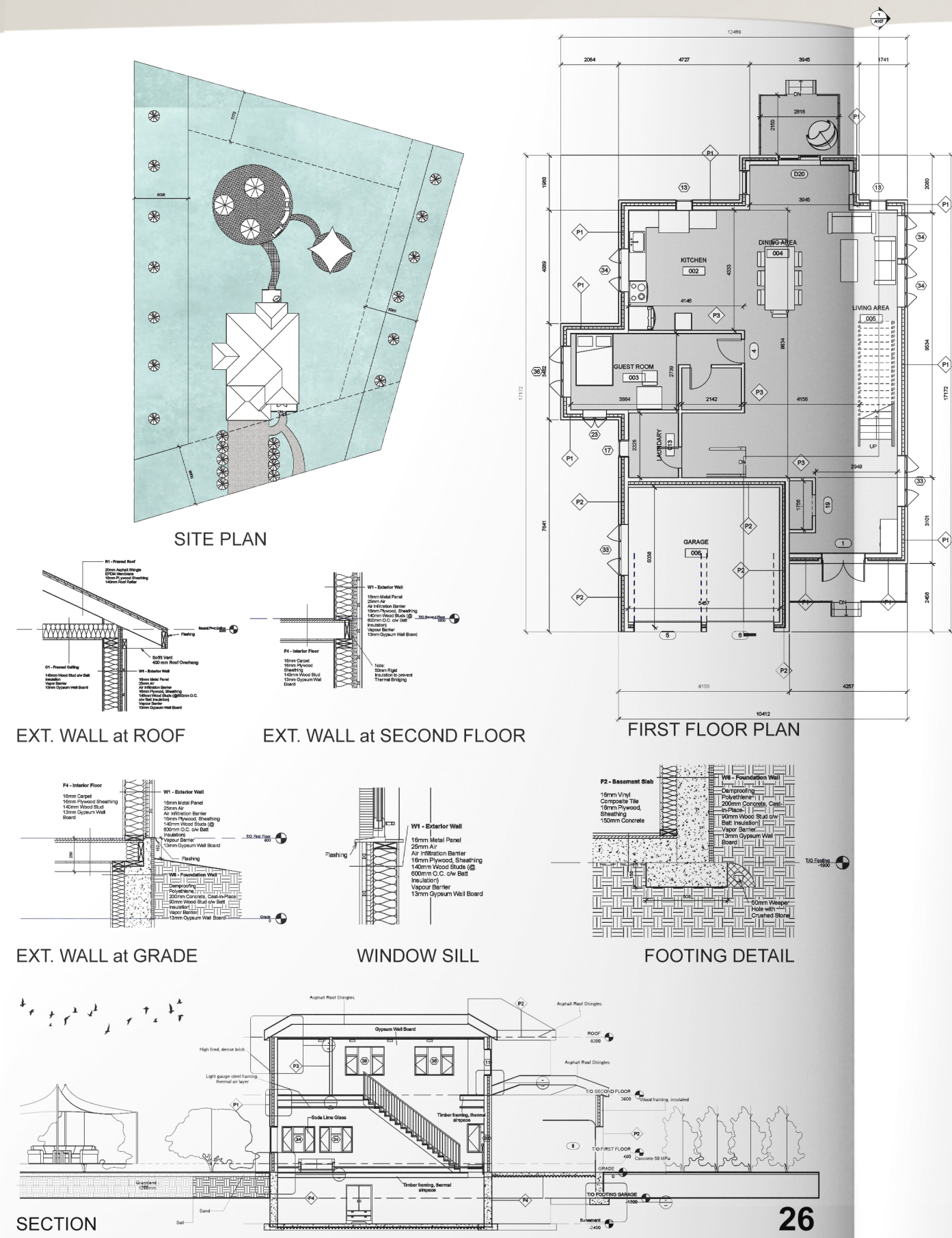


## SITE PLAN





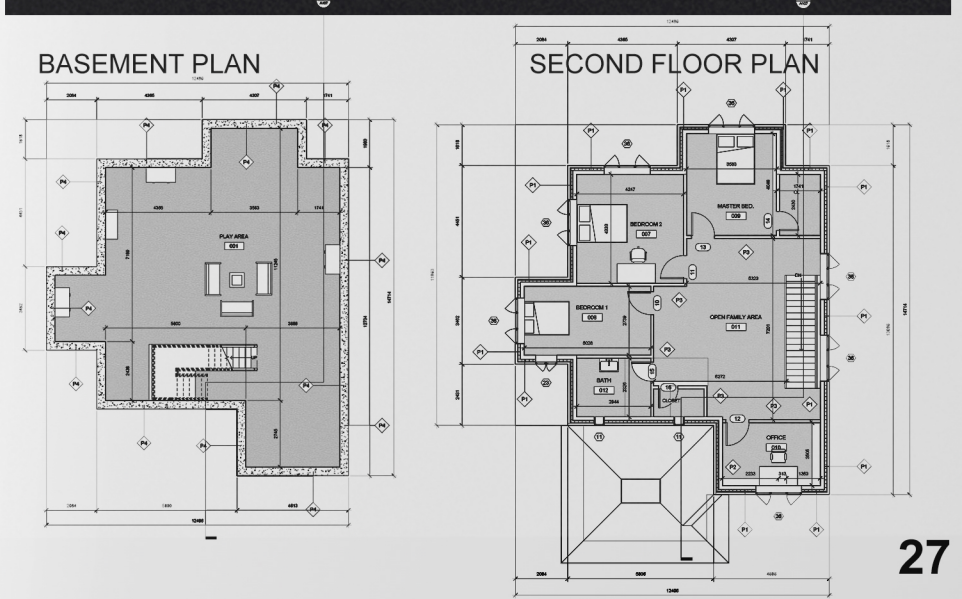




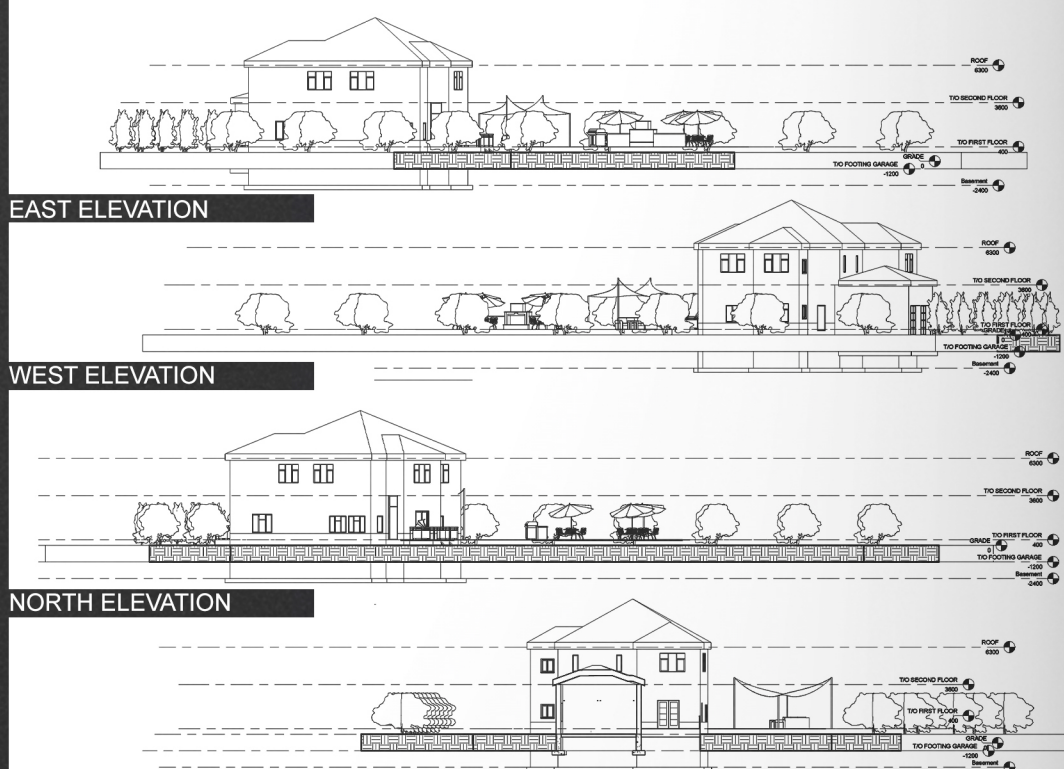
## 7. THE B HOUSE

**Project Summary:**  
Two-Storey Single Family House in Mississauga  
This project aims to design a modern and functional two-storey single-family house located in Mississauga, Ontario. The design prioritizes the needs of the residents while integrating sustainable and contemporary architectural elements.

- Key Features:**
- 1. Contemporary Design Aesthetic:** The house features a sleek and contemporary design aesthetic with clean lines and minimalist elements, creating a visually appealing structure that complements the surrounding environment.
  - 2. Spacious Interior:** The interior layout is designed to maximize space utilization and provide ample natural light throughout the house. Open floor plans create fluidity between spaces while maintaining distinct functional areas.
  - 3. Functional Zones:** Each floor is divided into functional zones, including living, dining, kitchen, and private areas such as bedrooms and bathrooms. Special attention is given to the flow between these zones to enhance usability and comfort.
  - 4. Outdoor Living Spaces:** The design incorporates outdoor living spaces such as a patio or deck, providing opportunities for relaxation, entertainment, and connection with nature.
  - 5. Sustainable Features:** The house integrates sustainable features such as energyefficient appliances, solar panels, and passive design strategies to reduce energy consumption and environmental impact.
  - 6. Integration with Surroundings:** The design takes into account the surrounding landscape and neighborhood context to ensure harmony with the environment. The house is positioned to maximize views and privacy while respecting the natural features of the site.



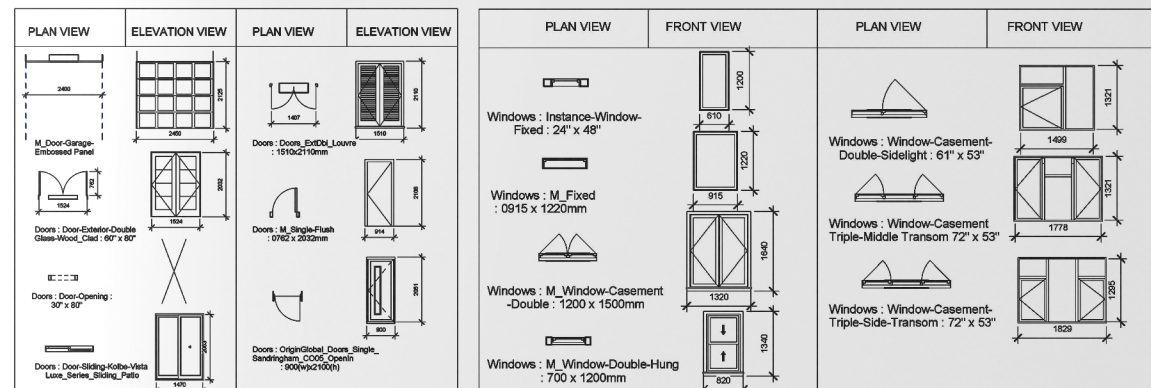
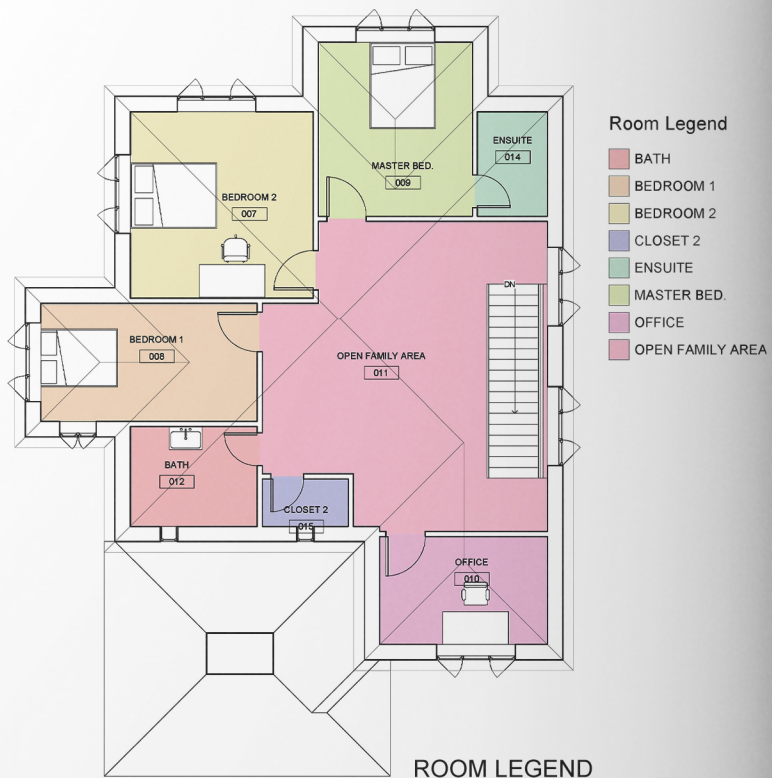




SOUTH ELEVATION



INTERIOR RENDERS



DOOR LEGEND

Item	Type	Size	Material	Finish	Notes
1	DOOR	10'0" x 8'0"	WOOD	PAINTED	PAINTED
2	DOOR	8'0" x 6'0"	WOOD	PAINTED	PAINTED
3	DOOR	6'0" x 6'0"	WOOD	PAINTED	PAINTED
4	DOOR	6'0" x 6'0"	WOOD	PAINTED	PAINTED
5	DOOR	6'0" x 6'0"	WOOD	PAINTED	PAINTED
6	DOOR	6'0" x 6'0"	WOOD	PAINTED	PAINTED
7	DOOR	6'0" x 6'0"	WOOD	PAINTED	PAINTED
8	DOOR	6'0" x 6'0"	WOOD	PAINTED	PAINTED
9	DOOR	6'0" x 6'0"	WOOD	PAINTED	PAINTED
10	DOOR	6'0" x 6'0"	WOOD	PAINTED	PAINTED
11	DOOR	6'0" x 6'0"	WOOD	PAINTED	PAINTED
12	DOOR	6'0" x 6'0"	WOOD	PAINTED	PAINTED
13	DOOR	6'0" x 6'0"	WOOD	PAINTED	PAINTED
14	DOOR	6'0" x 6'0"	WOOD	PAINTED	PAINTED
15	DOOR	6'0" x 6'0"	WOOD	PAINTED	PAINTED
16	DOOR	6'0" x 6'0"	WOOD	PAINTED	PAINTED
17	DOOR	6'0" x 6'0"	WOOD	PAINTED	PAINTED
18	DOOR	6'0" x 6'0"	WOOD	PAINTED	PAINTED
19	DOOR	6'0" x 6'0"	WOOD	PAINTED	PAINTED
20	DOOR	6'0" x 6'0"	WOOD	PAINTED	PAINTED

WINDOW LEGEND

Item	Type	Size	Material	Finish	Notes
1	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
2	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
3	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
4	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
5	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
6	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
7	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
8	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
9	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
10	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
11	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
12	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
13	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
14	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
15	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
16	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
17	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
18	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
19	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
20	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED

Item	Type	Size	Material	Finish	Notes
1	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
2	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
3	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
4	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
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6	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
7	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
8	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
9	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
10	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
11	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
12	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
13	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
14	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
15	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
16	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
17	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
18	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
19	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED
20	WINDOW	12'0" x 12'0"	WOOD	PAINTED	PAINTED

DOOR SCHEDULE

WINDOW SCHEDULE

