

917 Merivale Road Urban Design Review Panel May 3, 2024



#### Site Context







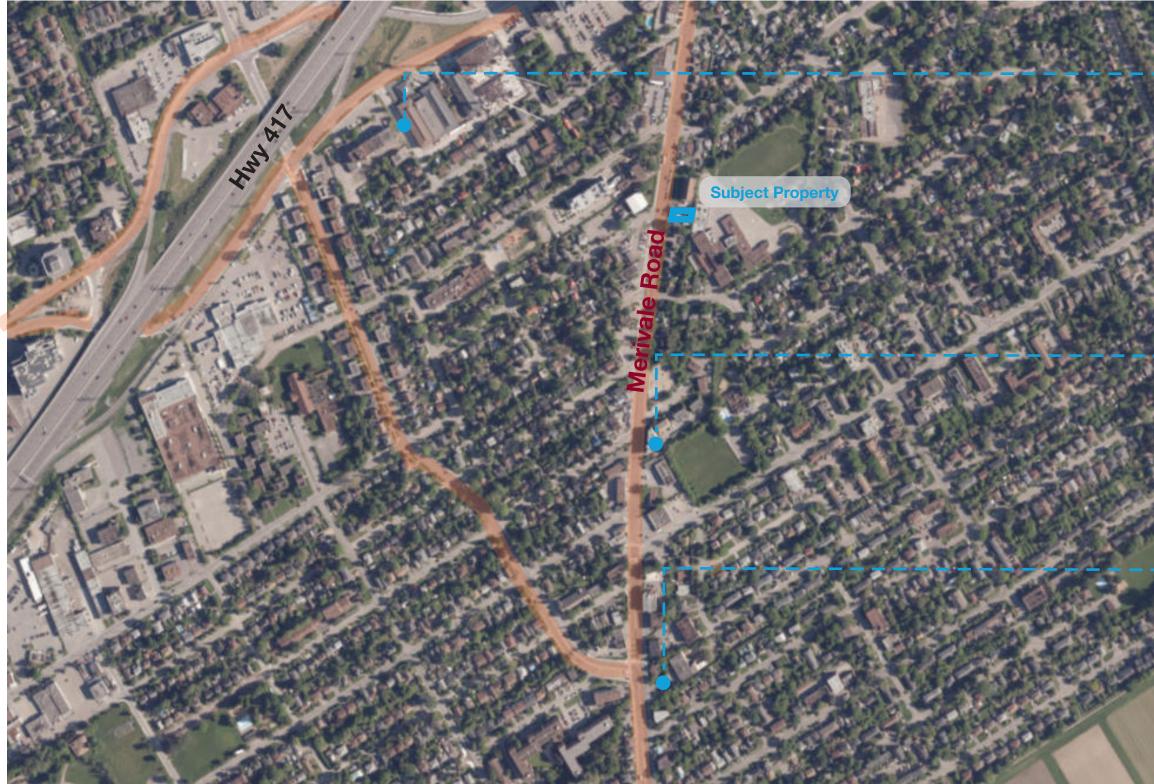
Mainstreet Corridor

#### St. Tekle Haimanot Ethiopian <sup>–</sup> Orthodox Church

- St. Elisabeth Catholic Church

- - WE Gowling Public School

#### **Development Context**







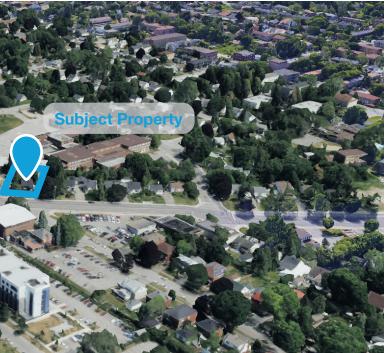
#### **999 Merivale Road** Recent infill development (low-rise apartment building)

**1095 Merivale Road** Proposed 70 unit sixstorey residential care facility

#### Site Context









#### Site Context



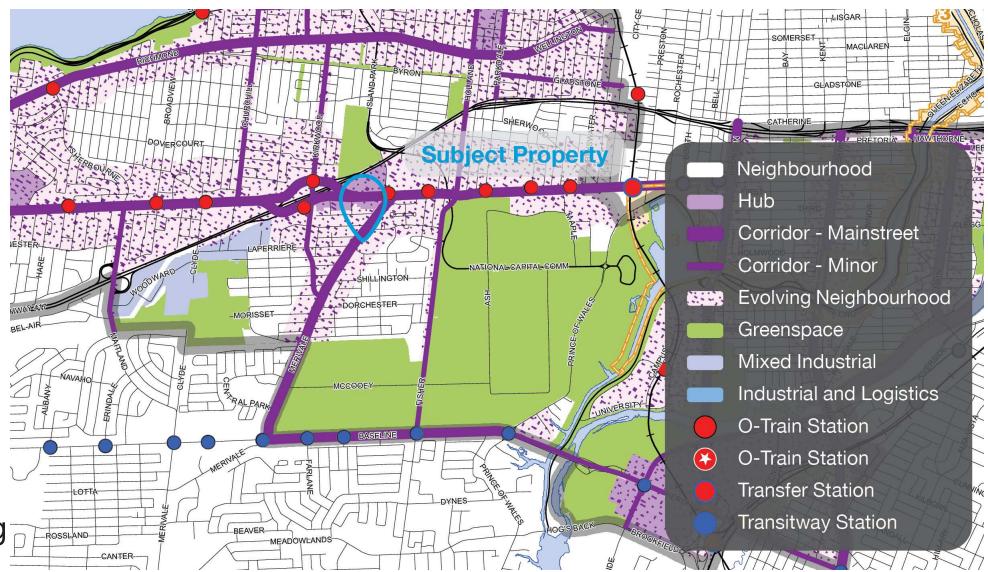


# City of Ottawa Official Plan (2022)

The subject property is located in the Outer Urban Transect and is designated Mainstreet Corridor in the City of Ottawa's Official Plan.

The goal of the **Inner Urban Transect** is to enhance or establish an urban pattern of built form, site design and mix of uses.

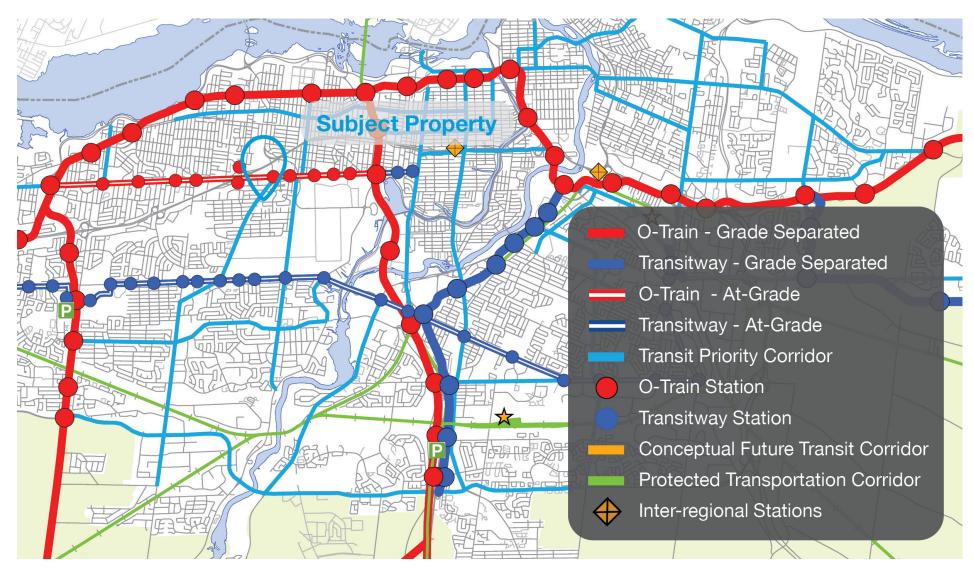
Mainstreet Corridors permits higher densities and a mix of land uses. The intent is to establish buildings that locate the maximum permitted building heights and highest densities close to the Corridor.





# City of Ottawa Official Plan (2022)

Merivale Road is identified as a Transit Prioirty Corridor on Schedule C2 - Transit Network (Ultimate). Transit Prioirty Corridors are identified as providing frequent bus service and improved citywide transit access to major employment, commercial and institutional land uses.





#### Schedule C2 - Transit Network (Ultimate)

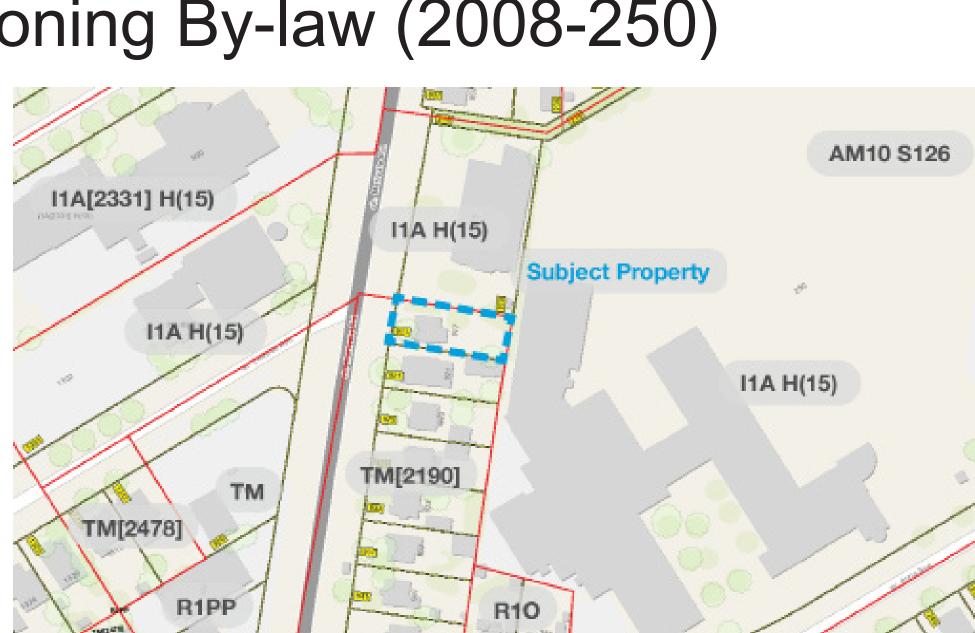
## Comprehensive Zoning By-law (2008-250)

#### The subject property is zoned Traditional Mainstreet, Urban Exception 2190 - TM[2190].

EXISTING ZOINING:	TM[2196] Tra	aditional Main St	reet Zone
PROPOSED ZOINING:	TM[2196] Traditional Main Street Zone		
PARKING	REQUIRED	PROVIDED	COMPLIES Y/N
OFF-STREET PARKING	4	4	Y
VISITOR PARKING	1	1	Y
BARRIER FREE PARKING	0	0	Y
BICYCLE PARKING	10	20	Y
SETBACKS	I	I	1
FRONT YARD	MAX 2M	0.76M	Y
FRONT YARD ABOVE 15M	MIN 2M	2.6M	Y
REAR YARD	7.5M	8.3M	Y
SIDE YARD (NORTH)	1.2M	1.22M	Y
SIDE YARD (SOUTH)	1.2M	1.2M	Y
MAX HEIGHT TO ROOF MIDPOINT	20M	20M	Y
MINIMUM LOT WIDTH	0	13.73M	Y
BUILDING COVERAGE/AREA	N/A	50.5%	Y
TOTAL GFA	N/A	1,341 SM	Y
AMENITY SPACE AREA	6 SM PER UNIT = 120SM MIN 50% COMMON	BALCONY = 171 SM COMMON GF = 97 SM	Y
TOTAL NUMBER OF UNITS	N/A	20	Y
MIN LANDSCAPE BUFFER	0 - NOT ABUTTING A STREET	N/A	Y

SITE DATA		
ITEM	AREA	% TOTAL
LOT AREA	481.5 SM (5,183 SFT)	100%
BUILDING AREA	283 SM (3,054 SFT)	58.9%
GROSS FLOOR AREA	1,368 SM (14,725 SFT)	
ASPHALT/CONC. AREA	168.5 SM (1,813 SFT)	28.7%
LANDSCAPED AREA	REAR LOT AREA 60 SM (645 SFT)	12.4%





PARKING COUNT					
USAGE	COUNT	PARKING RATIO	PARKING REQUIRED	PARKING PROVIDED	COMPLIES (Y/N)
STUDIOS*	10	0-10 UNITS = 0	0	0	Y
1 BED*	9	10-12 UNITS = 0 13-19 UNITS = 0.5	3	3	Y
2 BED	1	19-20 UNITS = 0.5	1	1	Y
BF SPOTS			0	0	Y
VISITOR		0-12 UNITS = 0 13-20 UNITS = 0.1	1	1	Y
TOTAL	20		5	5	Y

### **Project Description**

The proposed development is a six-story, 20 meter high residential apartment building located on a narrow rectangular lot along Merivale road. The entry point to the site includes a drive aisle for vehicular access and a main entrance vestibule at ground level. Five parking spaces are available at the rear of the building, surrounded by landscaping, with a planter box enhancing the entry doors.

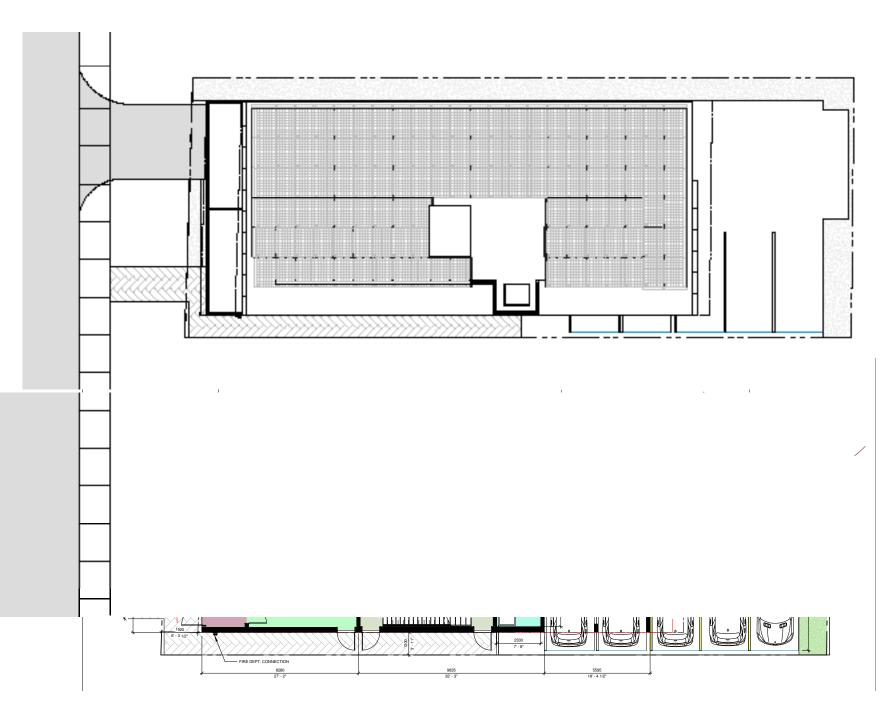
A spacious common amenity lounge, featuring a striking accent wall, guides residents towards the rear elevator and stairs scissor staircase ensures occupants have two means of e A dog wash station and garbage room are situated at the of the building, along with a privately accessed bicycle st room.

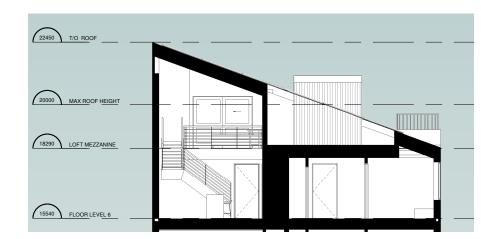
The basement hosts a utility service room and 12 ove storage lockers for residents.

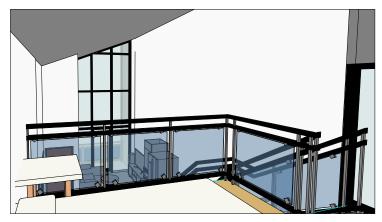
Levels 2 to 5 comprise of two bachelor and two one-bedroom units per floor, each with private balconies. Units on the West side of level 5 enjoy access to an expansive terrace, large enough for a small garden, thanks to a 2-meter setback requirement in the zoning bylaw.

The top floor, level 6, capitalizes on the sloped roof with soaring ceilings and an upper loft space, facilitating the inclusion of a one and two-bedroom unit.









917 Merivale Road

6

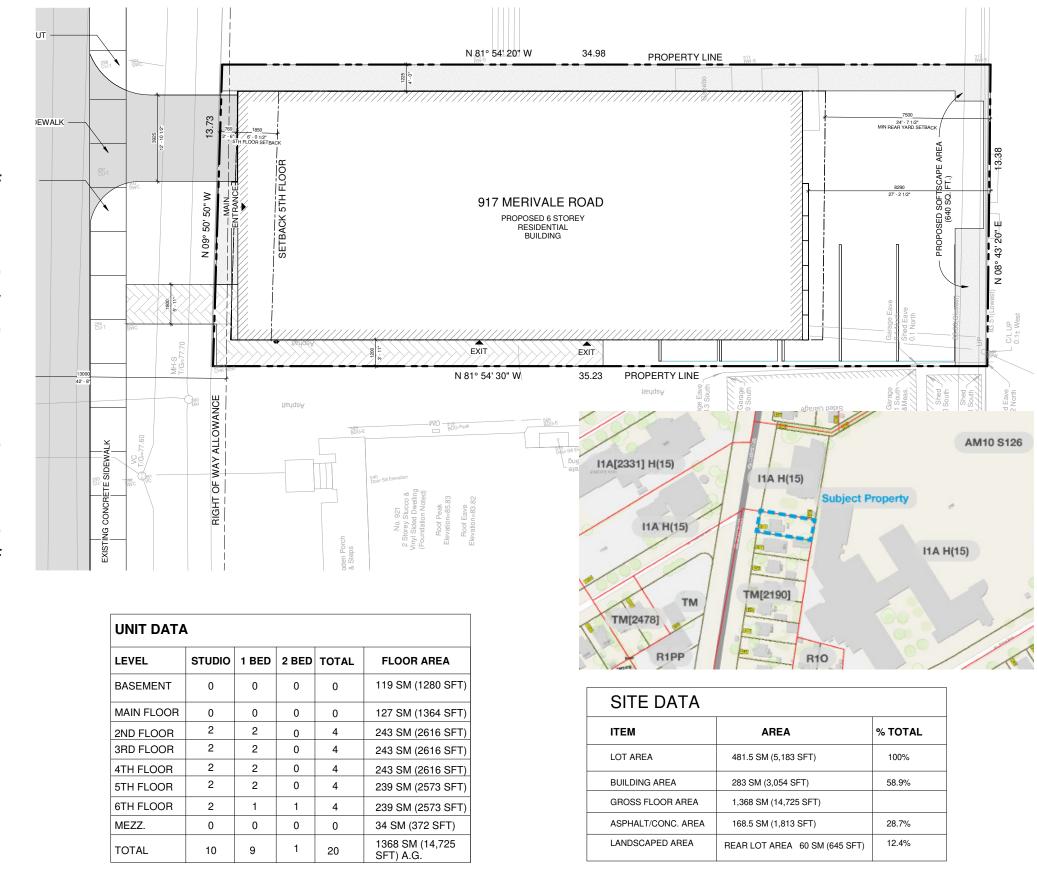
### **Project Statistics**

The property is a narrow rectangular lot 481.5 sm in area, 35M deep by 13.7M wide. The access drive is single drive aisle with a clearance of 3.8M, due to the constraints of the site.

The topography of the site is flat with little mature growth. Existing trees grow along the property lines, the largest of which is the Emerald White Cedar on the church side, whose roots and canopy extend into the subject property.

The proposed building occupies 58.9% of the site and has a gross floor area of 1,398SM.

Five surface parking spaces plus the drive aisle and two pedestrial walks occupy 28.7% of the site area, with the remaining 12.4% being dedicated to landscaping.





DATA			
	AREA	% TOTAL	
A	481.5 SM (5,183 SFT)	100%	
G AREA	283 SM (3,054 SFT)	58.9%	
LOOR AREA	1,368 SM (14,725 SFT)		
T/CONC. AREA	168.5 SM (1,813 SFT)	28.7%	
APED AREA	REAR LOT AREA 60 SM (645 SFT)	12.4%	

### **Concept Evolution**

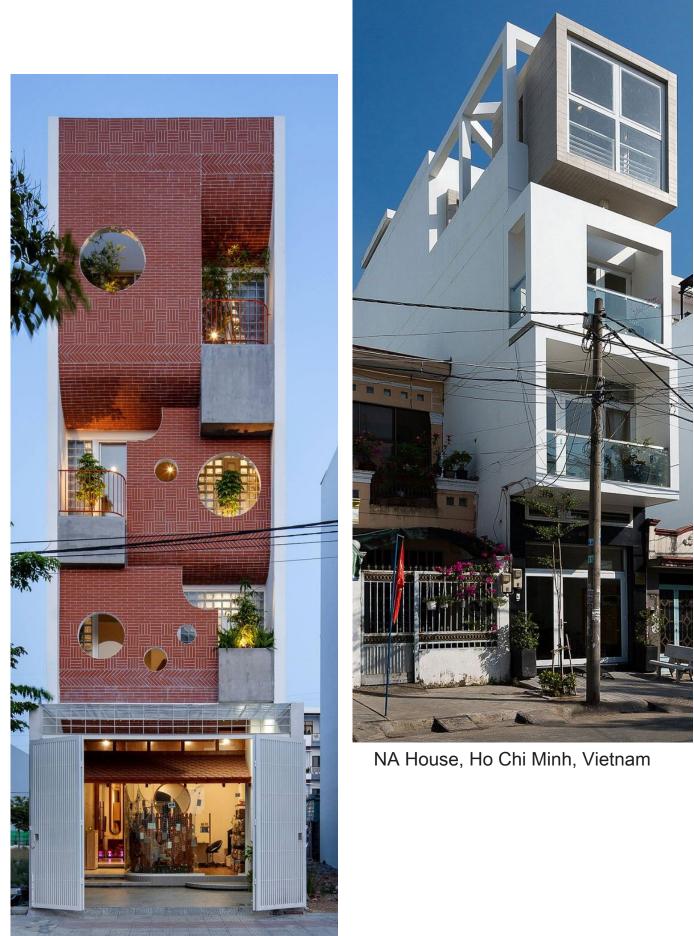
This six-story wood frame apartment building has been designed to establish a new standard and architectural style along Merivale Road. The project maximizes the buildable area on a narrow site, accommodating circulation at ground level and five levels of residential apartments above.

The design aims to create a modern and upscale structure with efficient units that offer abundant natural light. The incorporation of solar panels led to the development of a sloped roof to maximize Southern exposure. This shed-style roof also allows for a loft space on the sixth level, providing a luxurious two-bedroom apartment.

The building's form draws inspiration from similarly narrow mid-rise designs found in countries such as India, Thailand, and Vietnam. In these densely populated cities, tall and slender buildings are commonplace, reflecting the need to optimize space. By merging the slender house with a more traditional North American style vernacular and monosloped roof, the design brings a fresh take on modern living to the Carlington neighborhood.



Slender House, Hanoi, Vietnam



Da Nang House, Hoa Xuan, Vietnam



8

#### **Concept Evolution**

The genesis of the project emerged from Ottawa's pressing need for housing. Initial concepts focused on optimizing the site's efficiency and functionality for future tenants, drawing inspiration from the concept of the slender housing and evolving it into a denser residential structure.

The massing study began by taking the existing context, a wartime bungalow with a pitched roof, and extending this concept to a height of 20 meters. Changing the roof to a monoslope maximized the solar exposure making it ideal for solar panel integration, while the form took shape according to setbacks, balconies, and sightlines. This approach resulted in the various articulations and protrusions that define the building's design character.

The aesthetic of the building aims to modernize the area rather than replicate its current style. As the City plans for Merivale to evolve into a main street equivalent to Bank Street or Richmond Road, this pioneering design sets a precedent for a shifting typology in the neighborhood.

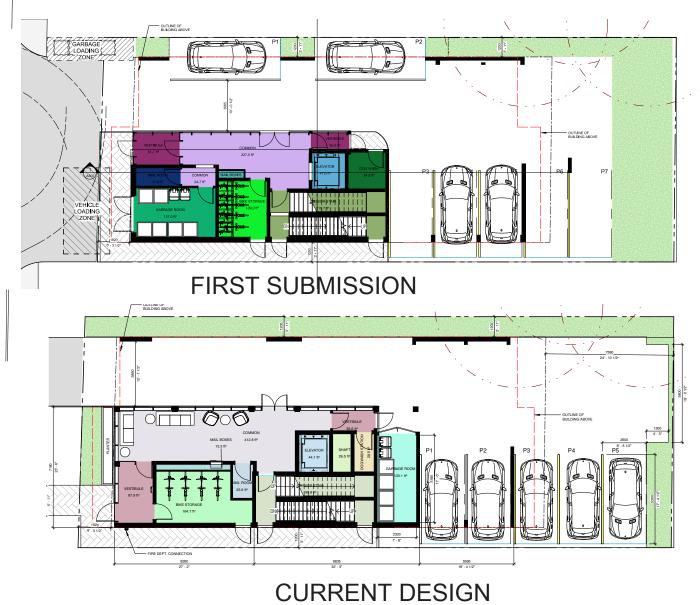




## **Concept Evolution**

**Response to City Pre-Consultation Comments:** 

- 1. Alternative ground floor layout provided based on City feedback.
- 2. Amenity area provided as a common area lounge next to the vestibule.
- 3. Garbage room was relocated to the rear of the building per city request, maximizing the frontage for public realm enhancement.
- 4. Vehicle lay-by removed and replaced with front yard landscaping.
- 5. Parallel parking spaces removed, drive aisle width revised to 3.6m.
- 6. North and South walls have been designed to provide greater visual appeal.









#### **CURRENT DESIGN**

### **Design Brief**

Context: the project's site was previously occupied by a single-family house converted into a coffee shop. The property is situated along Merivale road, which has been designated a Mainstreet Corridor in the City of Ottawa's Official Plan. The City's future plans to evolve Merivale into a "mainstreet" have not been reflected in the local context to this point as the neighborhood predominantly comprises single-family homes to the South, a Church to the North, and an Auto Repair & Sales Shop across the street. To the rear (East) of the property is a School.

The proposed design was crafted to seamlessly integrate into the surrounding low-rise neighborhood. By stepping back 2 meters from the street on the 5th and 6th levels, the building maintains harmony with the existing streetscape, preventing any overwhelming presence or overshadowing of neighboring structures. The addition of the sloped roof adds a touch of residential charm, softening the building's profile and further blending it into the fabric of the community. Moreover, landscaping features have been incorporated, and the frontage of the apartment's entrance along Merivale has been maximized, fostering a more welcoming and walkable public realm.

Parking has been deliberately limited on-site to encourage the use of public transit, and the relocation of the waste room to the rear promotes a more active entry experience. The North and South walls are clad with fiber cement panels arranged in an irregular checkered pattern, enhancing the visual appeal of the building, while articulations around the balconies and parapets lend it a distinctive form.









## **Design Brief**

Arterial Main Street Design:

The proposal creates a pleasant pedestrian environments with streetscape defined by an inviting entrance and landscpaing. Other additional features to be included:

- 2m wide sidewalk w/ plantings & landscaped area
- a bench, bicycle parking and decorative paving
- a potential mural along the interior lobby feature wall, visible from the street
- Cladding colours and textures designed to improve the visual appearance of the side walls
- Clear windows and doors along the pedestrian level façade of walls, facing the street, to accentuate the active lobby and common area along the street at grade.

Transit Oriented Design:

This project is a transit oriented design, through the reduced parking and efficient floor plate, but also:

- The step back of floors 5 and 6 in order to maintain a more human scale along the sidewalk and to reduce shadow and wind impacts on the public street.

- Provided architectural variety on the lower storeys with the building's balcony arrangement, trimwork and articulation

Lowrise & Infill Design:

This infill project is a contemporary design within a changing local context. Infill development should be a desirable addition to an existing neighbourhood, and this project creates a highly visible landmark through its distinctive design features. Additionally the design: - Ensures that the new frontage faces and animates the public street.

- Reflects the desirable planned neighbourhood pattern of development in terms of building height, elevation and the location of primary entrances, the elevation of the first floor and yard encroachments as defined by the Official Plan and Zoning Bylaws.



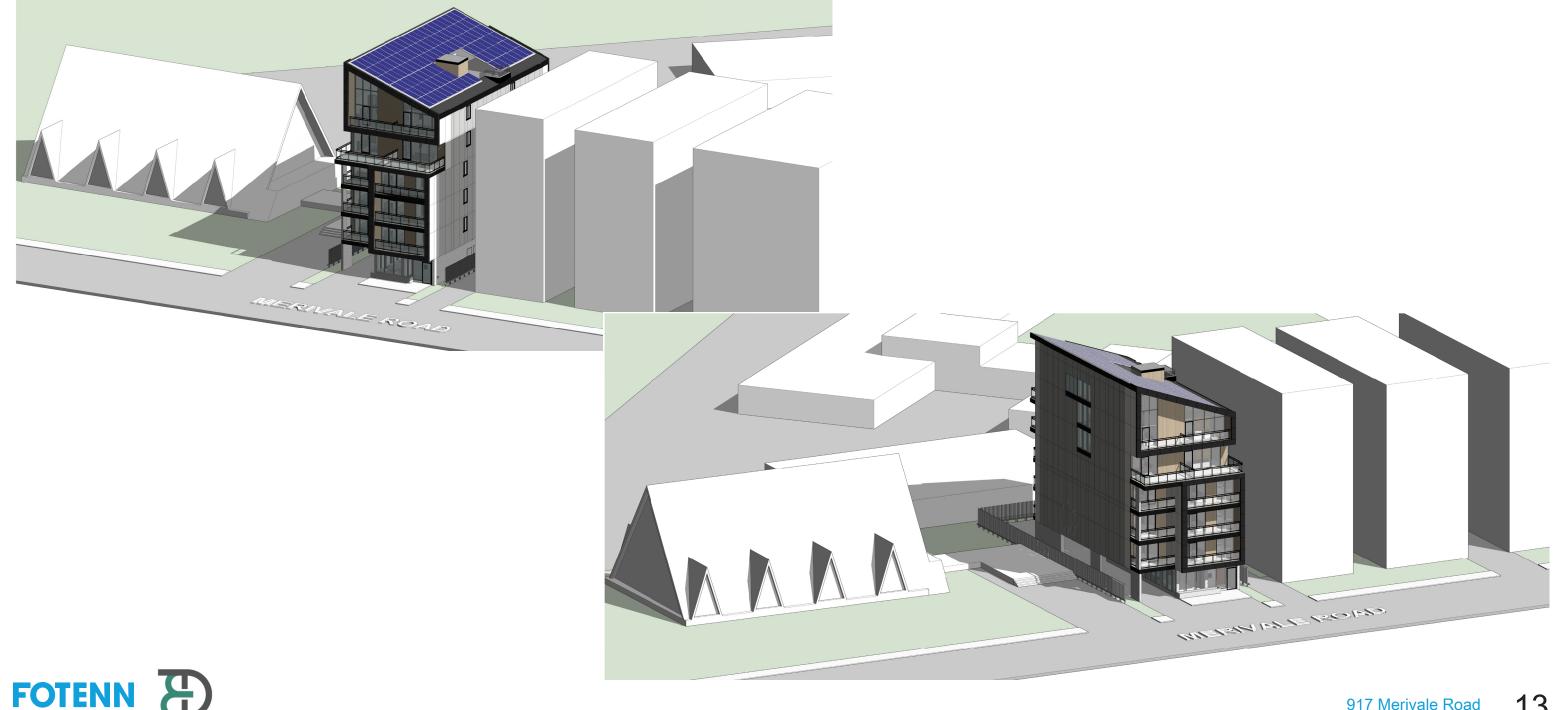




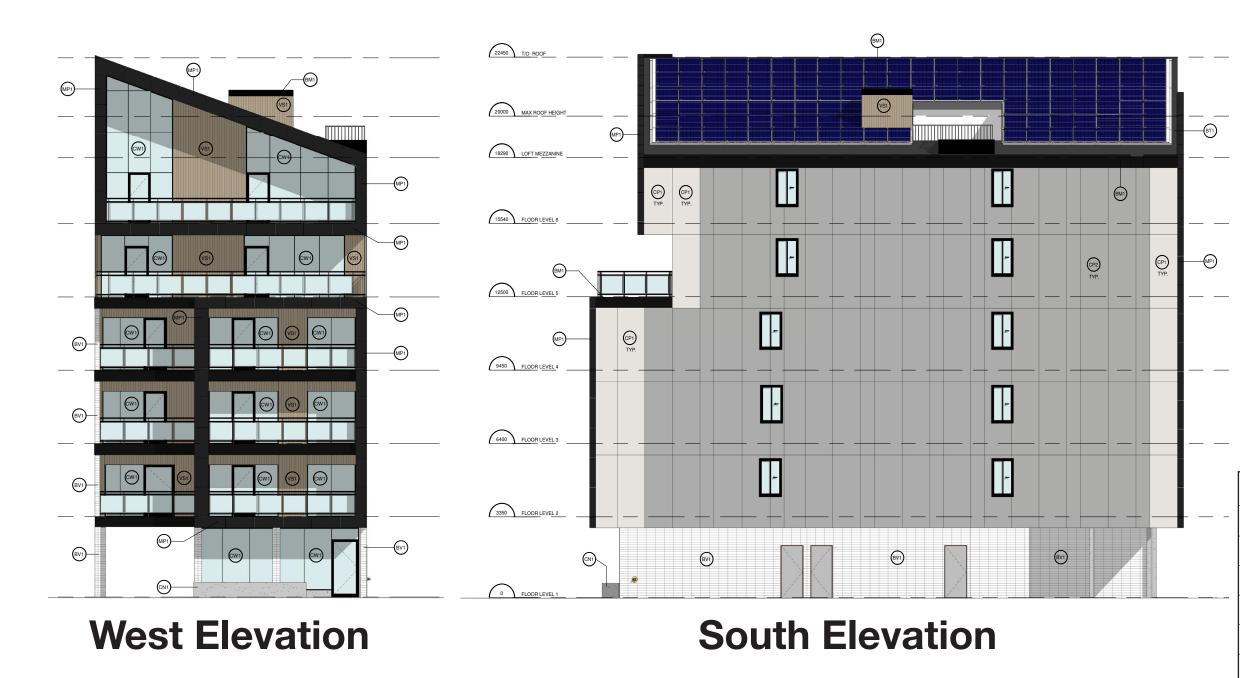
## **Design Brief**

**Evolving Main Street - Context Illustration** 

It is important to consider the design within the context of an evolving streetscape. The City's Official Plan and the intended direction for the future development of Merivale will see similarly sized, 6 storey buildings begin to replace the existing single story wartime bungalows that line the street. This proposed development will be the first of it's kind in the area, but not the last.



## **Building Elevations**





MATERIAL SCHEDULE		
DESCRIPTION		
BENT METAL - POWDER COATED BLACK		
BITUMEN ROOF MEMBRANE		
BRICK VENEER - STACK BOND - WHITE		
COMPOSITE PANELING - BONE WHITE		
COMPOSITE PANELING - LIGHT GREY		
CAST IN PLACE CONCRETE		
CURTAIN WALL GLAZING		
METAL PANEL - POWDER COATED BLACK		
VERTICAL SIDING - ANTIQUE OAK		

## **Building Elevations**



**East Elevation** 

**North Elevation** 

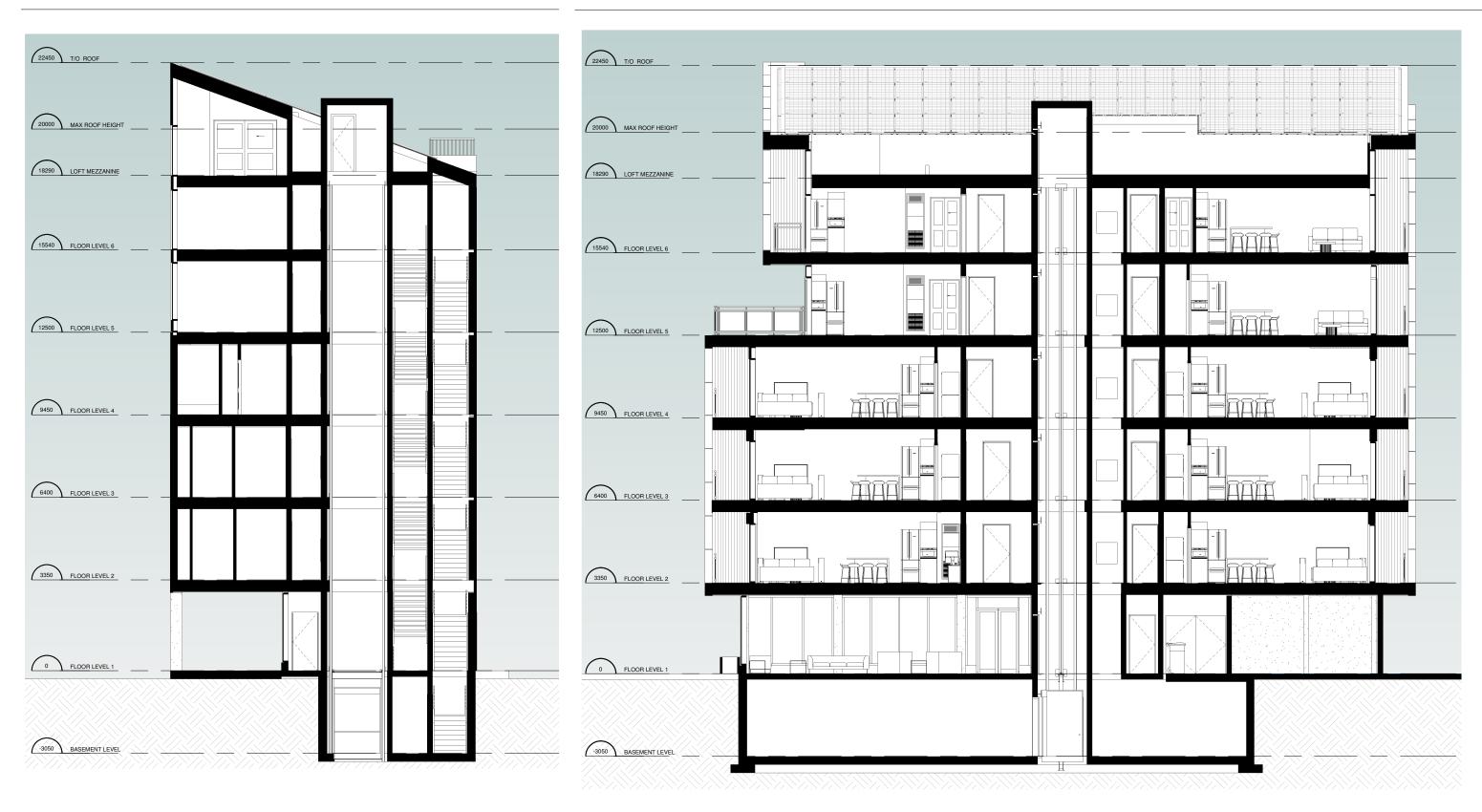


MATERIAL SCHEDULE		
MARK	DESCRIPTION	
(BM1)	BENT METAL - POWDER COATED BLACK	
BT1	BITUMEN ROOF MEMBRANE	
BV1	BRICK VENEER - STACK BOND - WHITE	
CP1	COMPOSITE PANELING - BONE WHITE	
CP2	COMPOSITE PANELING - LIGHT GREY	
CN1	CAST IN PLACE CONCRETE	
CW1	CURTAIN WALL GLAZING	
(MP1)	METAL PANEL - POWDER COATED BLACK	
(VS1)	VERTICAL SIDING - ANTIQUE OAK	

-BM1

-(MP1)

#### **Building Sections**





#### **Building Sections**



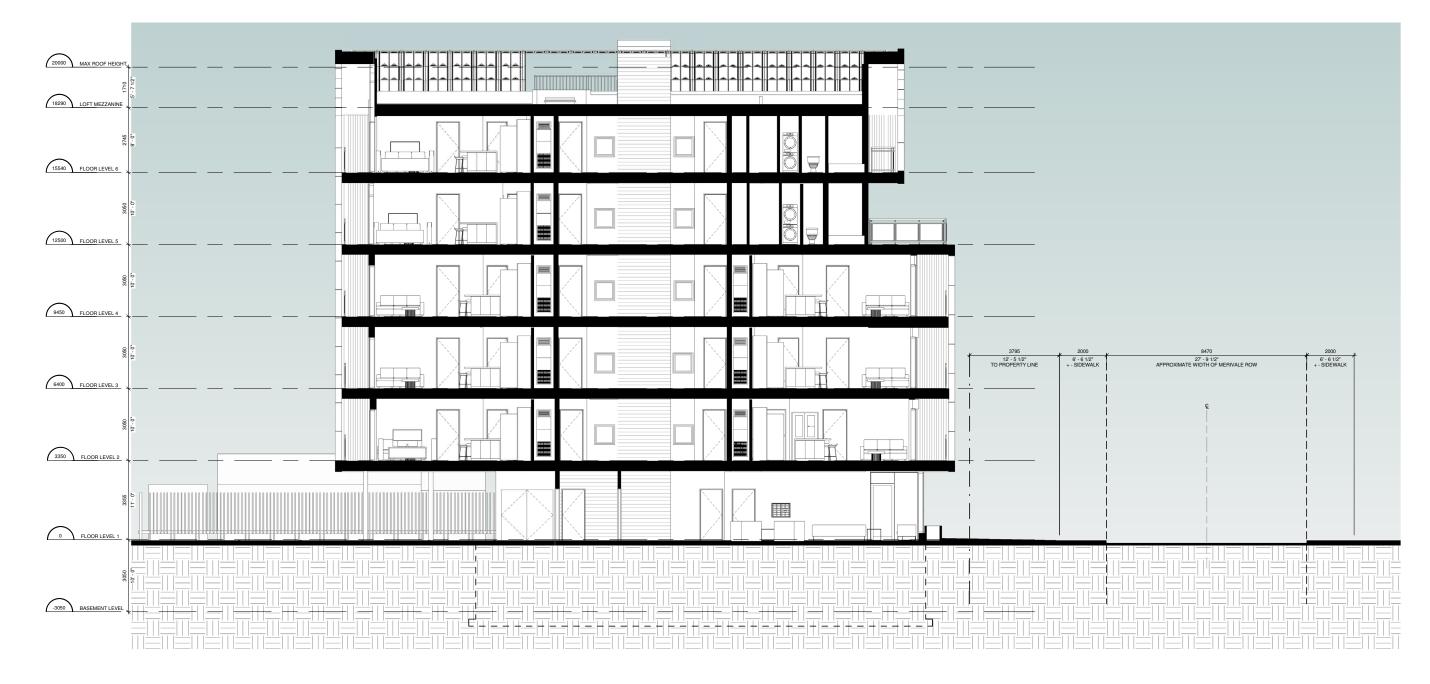


#### **Project Renderings**





#### **Street Cross Section**





## Sustainability Statement

The design and construction of the project will pursue principals of energy efficiency to acheive a minimum of 40% improvements above the National Building Code. This will be achieved by increasing the continuous insulation along the exterior of the building and ensuring a properly installed air/vapor barrier inside of the walls. This will limit the amount of air leakage, and the continuous insulation will provide sufficient thermal breakage to maintain the building's optimal heating & cooling performance.

Energy efficient heat pumps will be installed in each of the residential suites, along with LED lighting, energy star appliances and state of the art temperature monitoring & building system automations. This will dramatically reduce electricity and gas consumption, while operable windows will permit natural ventilation to living and sleeping areas. Within the corridors, dedicated supply air connected to a heat recovery ventilator on the roof will feed fresh, conditioned air into the building. To offset any more electrical loads, it is planned to install solar panels on the sloped roof, conveniently oriented to the South to maximize solar exposure.

Water consumption is also being addressed, through storm water management practices. Excess runnoff will be collected within an underground cistern. The water will be filtered and treated with UV prior to being released into the City sewers. The option to introduce a rainwater harvesting system that could feed collected runnoff, treat it and re-circulate the water into the greywater systems is also being explored.

Construction will further favor locally sourced, durable materials with recycled contents. Contractors will be required to follow best wastemanagement principles. Interior finishes will be selected for durability and low-emissivity.

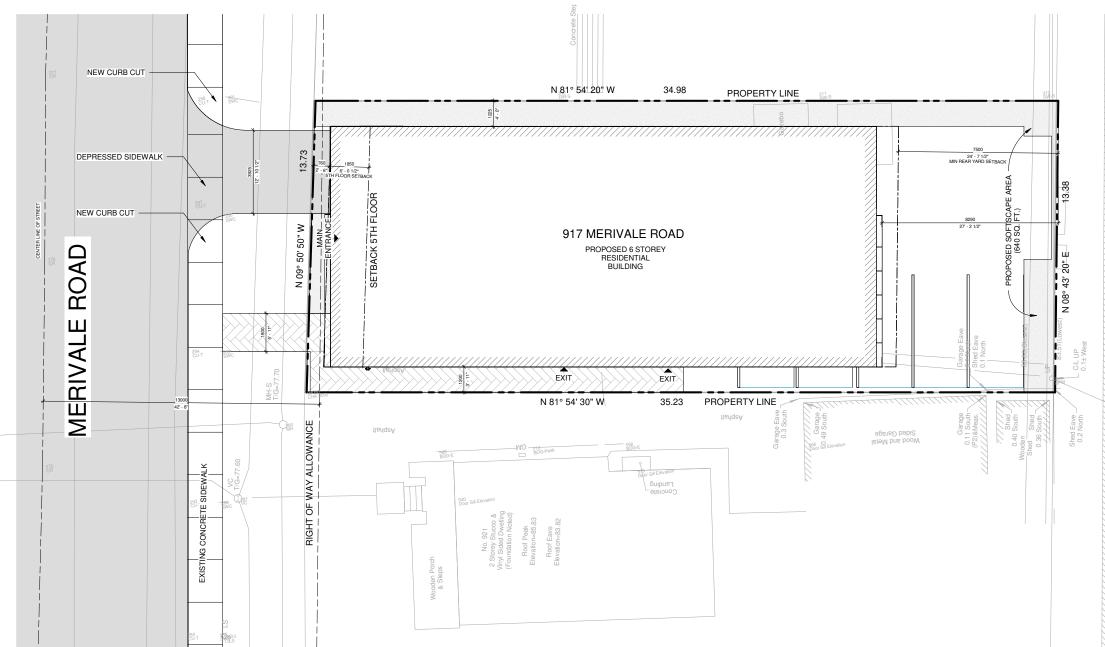
Bird-Safe Design measures have been planned to limit the danger to birds caused by expansive glazed surfaces. The proposed design has larger glazed walls on the East and West facades. Bird-friendly glass will be used on all ground floor windows and doors, and on curtain walls and balconies from level 2 through 6.



#### Site Plan

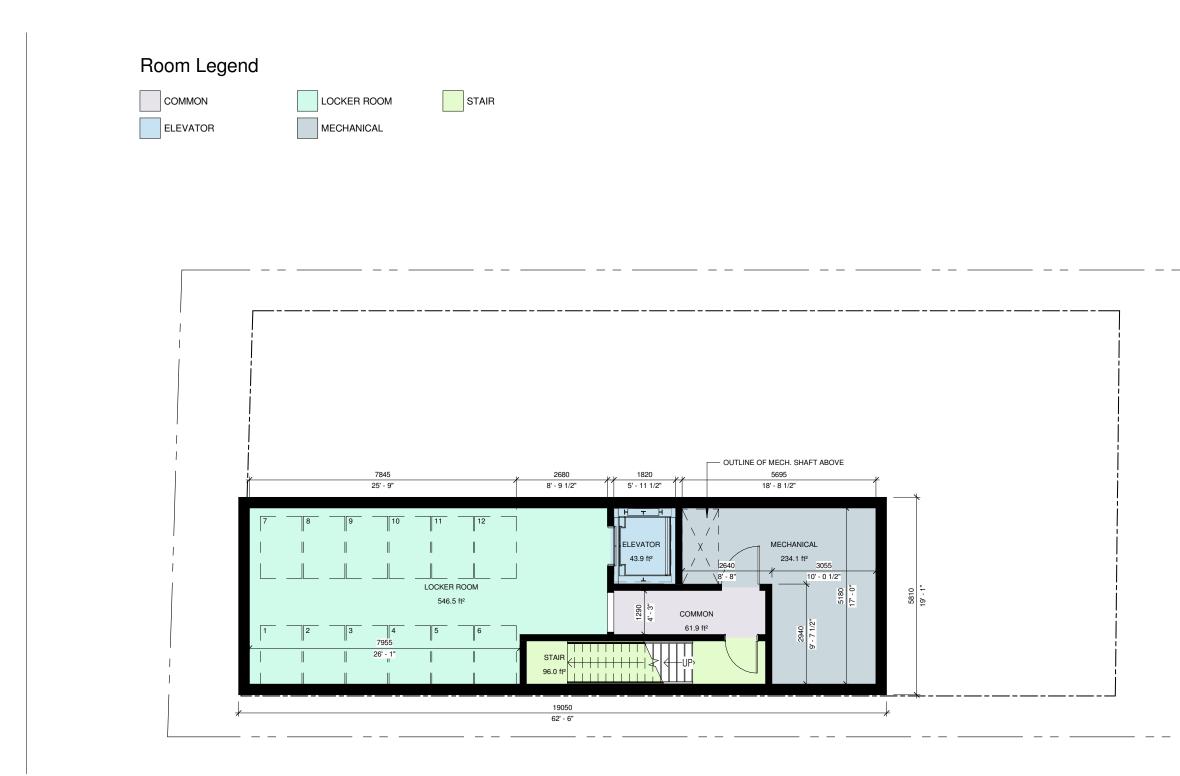
EXISTING ZOINING:	TM[2196] Traditional Main Street Zone			
PROPOSED ZOINING:	TM[2196] Traditional Main Street Zone			
PARKING	REQUIRED	PROVIDED	COMPLIES Y/N	
OFF-STREET PARKING	4	4	Y	
VISITOR PARKING	1	1	Y	
BARRIER FREE PARKING	0	0	Y	
BICYCLE PARKING	10	20	Y	
SETBACKS	I	I		
FRONT YARD	MAX 2M	0.76M	Y	
FRONT YARD ABOVE 15M	MIN 2M	2.6M	Y	
REAR YARD	7.5M	8.3M	Y	
SIDE YARD (NORTH)	1.2M	1.22M	Y	
SIDE YARD (SOUTH)	1.2M	1.2M	Y	
MAX HEIGHT TO ROOF MIDPOINT	20M	20M	Y	
MINIMUM LOT WIDTH	0	13.73M	Y	
BUILDING COVERAGE/AREA	N/A	50.5%	Y	
TOTAL GFA	N/A	1,341 SM	Y	
AMENITY SPACE AREA	6 SM PER UNIT = 120SM MIN 50% COMMON	BALCONY = 171 SM COMMON GF = 97 SM	Y	
TOTAL NUMBER OF UNITS	N/A	20	Y	
MIN LANDSCAPE BUFFER	0 - NOT ABUTTING A STREET	N/A	Y	

SITE DATA		
ITEM	AREA	% TOTAL
LOT AREA	481.5 SM (5,183 SFT)	100%
BUILDING AREA	283 SM (3,054 SFT)	58.9%
GROSS FLOOR AREA	1,368 SM (14,725 SFT)	
ASPHALT/CONC. AREA	168.5 SM (1,813 SFT)	28.7%
LANDSCAPED AREA	REAR LOT AREA 60 SM (645 SFT)	12.4%





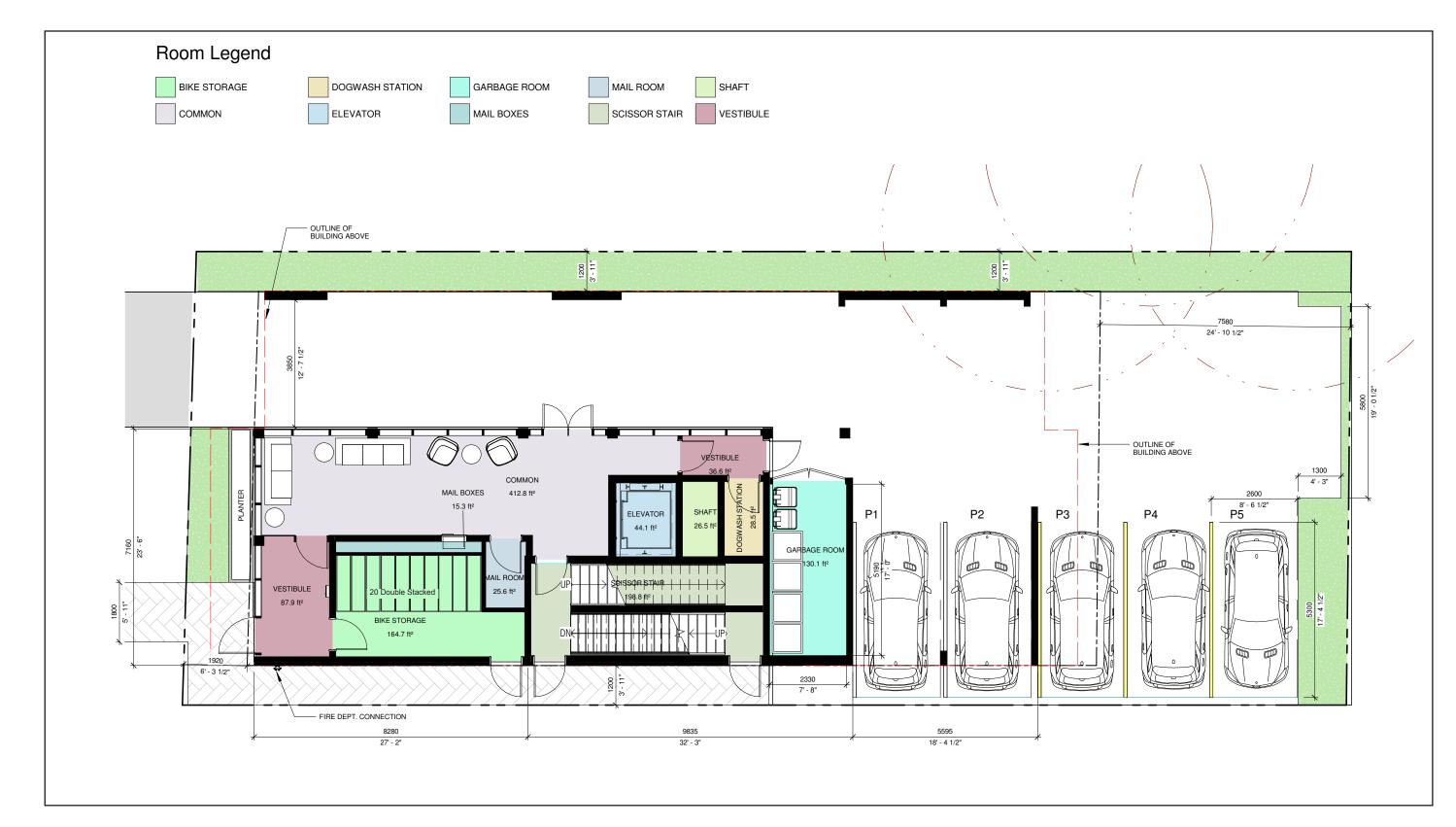
#### Floor Plans | Basement







#### Floor Plans | Level 1









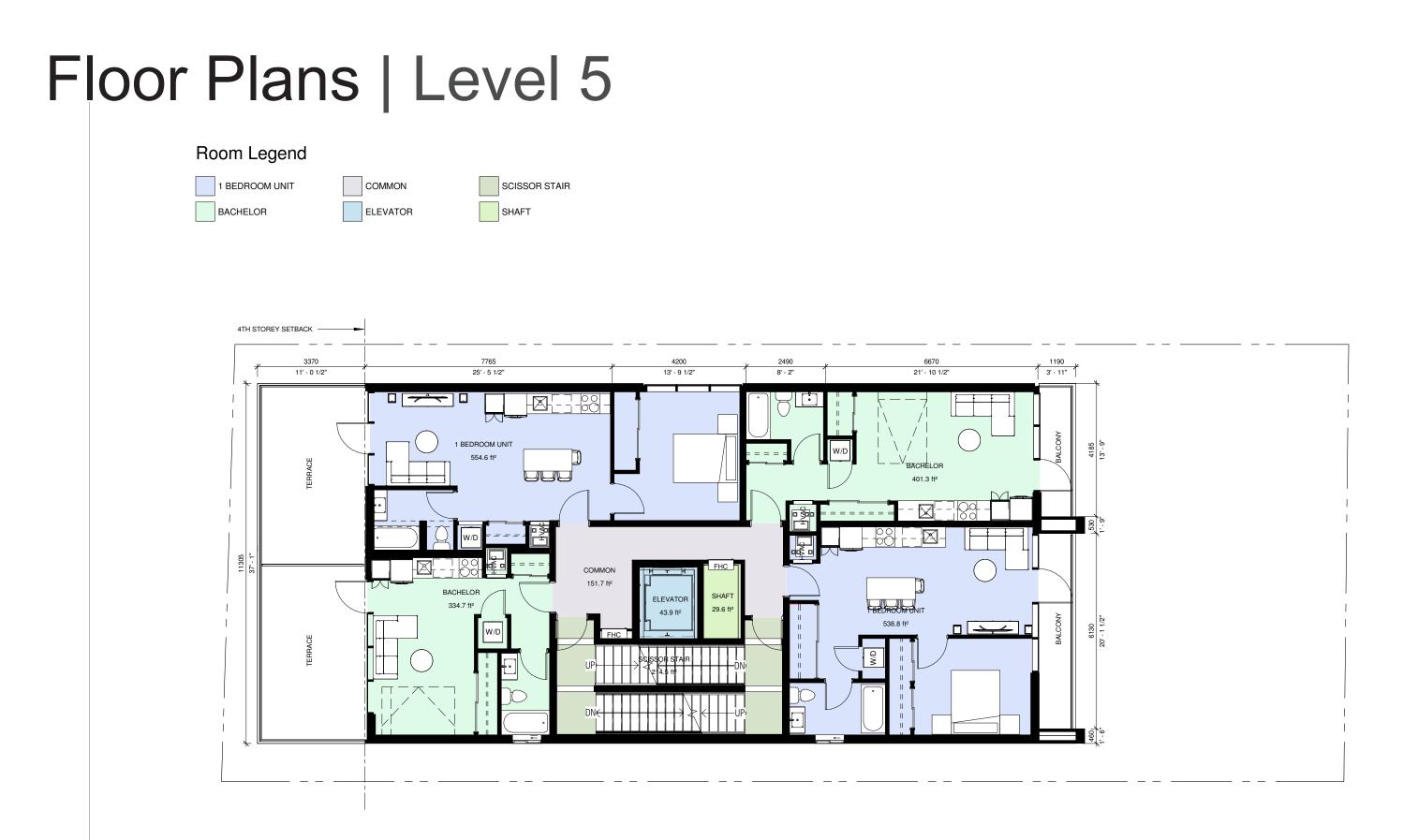
#### Floor Plans | Level 3













#### Floor Plans | Level 6







