Site Servicing and Stormwater Management Report 1108 Maisonneuve Street, Ottawa, ON

Client:
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Submitted for:
Site Plan Application (SPA)

Project Name:
1108 Maisonneuve Street

Project Number:
OTT-24006872-A0

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1108 Maisonneuve Street, Ottawa, ON
OTT-24006872-A0
July 22, 2025

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1108 Maisonneuve Street, Ottawa, ON

Prepared by:

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Date Submitted:
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Table of Contents

1 Introduction 1
1.1 Overview 1
2 Existing Conditions 2
2.1 Site Topography 2
3 Existing Infrastructure 2
4 Pre-Consultation / Permits / Approvals 2
4.1 Design Guidelines 3
5 Water Servicing 3
5.1 Water Servicing Design Criteria 3
5.2 Estimated Water Demands 4
5.3 Boundary Conditions 4
5.4 Fire Flow Requirements 5
5.5 Review of Hydrant Spacing 5
6 Sanitary Sewage Servicing 6
6.1 Sanitary Sewage Design Criteria 6
6.2 Proposed Sewage Conditions 7
6.3 Sanitary Servicing Review 7
7 Storm Servicing & Stormwater Management 7
7.1 Design Criteria 7
7.2 Runoff Coefficients 8
7.3 Pre-Development Conditions and Allowable Release Rate 8
7.4 Post Development Runoff 8
7.5 Flow Attenuation & Storage 9
7.6 Foundation and Under slab Drains 9
8 Conclusions and Recommendations 10
9 Legal Notification 11
Appendix A – Figures ..... A
Appendix B – Water Servicing ..... B
Appendix C – Sanitary Demand Chart C

Appendix D – SWM Design Sheets ..... D

Appendix E – Correspondence ..... E

Appendix F – Drawings ..... F

List of Figures

Figure 1-1 - Site Location 1
Figure A1 – Site Location Plan ..... A
Figure A2 – Hydrant Location Plan ..... A

List of Tables

Table 5-1: Summary of Water Supply Design Criteria 3
Table 5-2: Residential Water Demand Summary 4
Table 6-1: Summary of Wastewater Design Criteria / Parameters 6
Table 6-2: Summary of Anticipated Sewage Rates 7
Table 7-1: The total pre-development storm runoff 8
Table 7-2: Summary of Post-Development Controlled and Uncontrolled flowrates 9
Table B1: Water Demand Chart ..... B
Table B2: Fire Flow Requirements Based on Fire Underwriters Survey (FUS) ..... B
Table B3: Estimated Water Pressure at Proposed Building FFE ..... B
Table C1: Sanitary Demand Chart C
Table D1: Calculation of Average Runoff Coefficients for Pre-Development Conditions ..... D
Table D2: Calculation of Catchment Time of Concentration for Pre-Development Conditions ..... D
Table D3: Calculation of Peak Runoff for Pre-Development Conditions ..... D
Table D4: Calculation of Allowable Release Rate With C=0.5 ..... D
Table D5: Average Runoff Coefficients for Post-Development Conditions ..... D
Table D6: Summary of Post-Development Peak Flows (Uncontrolled And Controlled) ..... D
Table D7: 2-year, 5-year & 100-year Roof Drains Design Sheet - Using Flow Controlled Roof Drains ..... D
Table D8: Storage Volumes Roof Area #P01-A (2 Year, 5 Year and 100 Year Storms) (MRM) ..... D
Table D9: Storage Volumes Roof Area #P01-B (2 Year, 5 Year and 100 Year Storms) (MRM) ..... D

1 Introduction

1.1 Overview

EXP Services Inc. (EXP) was retained by PluseSocieties Limited to prepare a Site Servicing and Stormwater Management Report for the proposed development of 1108 Maisonneuve Street in support of Site Plan Application (SPA).

The site is situated on Maisonneuve Street Road, south of Highway 174 and west of Place d'Orleans Drive. The site is surrounded by Maisonneuve Street on the east, and residential dwellings to the north, south, and west as illustrated in **Figure 1-1** below. The site is within the City of Ottawa urban boundary and situated in Orléans East-Cumberland Ward (Ward 1).

Figure 1-1 - Site Location

The proposed development will consist of one (1) four (4) storey apartment building with a below grade basement. The proposed apartment building will consist of 24 units.

This report will discuss the adequacy of the adjacent municipal watermain, sanitary sewers and storm sewers to provide the required water supply, convey the sewage and stormwater flows that will result from the proposed development.

2 Existing Conditions

2.1 Site Topography

The site is currently occupied by a single-family residential unit. The site is bounded to the north, south, and west by single family residential units, and to the east by Maisonneuve Street. The topography of the site generally slopes towards Maisonneuve with minimal grades sloping away from the residential unit.

3 Existing Infrastructure

From review of the sewer and watermain mapping, as-built drawings and the City's GeoOttawa mapping, the following summarizes the onsite and adjacent offsite infrastructure:

Within property

- None

Within Maisonneuve Street Right-of-way

- 152 mm – CI watermain and fire hydrant
- 250 mm – AC sanitary sewer
- No storm sewer
- Gas main
- Overhead hydro lines and communication cables

Refer to the survey plan prepared by Annis, O'Sullivan, Vollebekk Ltd., included in **Appendix F**.

4 Pre-Consultation / Permits / Approvals

A pre-consultation meeting was held with the City prior to design commencement. This meeting, held June 10, 2024, outlined the submission requirements and provided information to assist with the development proposal. Please refer to the email correspondence included in **Appendix E**.

Generally, an Environmental Compliance Approval (ECA) would be obtained from the Ministry of Environment, Conservation and Parks (MECP), formerly the Ministry of the Environment and Climate Change (MOECC), for any onsite private Sewage Works; however, an Approval Exemption under Ontario Regulation 525/98 can be applied. Under Section 3 of O'Reg 525/98, Section 53 (1) and (3) do not apply to the alteration, extension, replacement, or a change to a stormwater management facility that 1) is designed to service one lot or parcel of land, b) discharges into a storm sewer that is not a combined sewer, c) does not service industrial land or a structure located on industrial land, and finally d) is not located on industrial land. The onsite Sewage Works would generally include the onsite stormwater works such as flow controls, associated stormwater detention, and treatment works. Proposed stormwater management infrastructure complies with all of the above noted exemption requirements. Therefore, the proposed private stormwater management infrastructure would not require an ECA.

4.1 Design Guidelines

Various design guidelines were referred to in preparing the current report including:

- Bulletin ISDTB-2012-4 (20 June 2012)
    - Technical Bulletin ISDTB-2014-01 (05 February 2014)
    - Technical Bulletin PIEDTB-2016-01 (September 6, 2016)
    - Technical Bulletin ISDTB-2018-01 (21 March 2018)
    - Technical Bulletin ISDTB-2018-04 (27 June 2018)
- Ottawa Design Guidelines – Water Distribution, July 2010 (WDG001), including:
    - Technical Bulletin ISDTB-2014-02 (May 27, 2014)
    - Technical Bulletin ISTB-2018-02 (21 March 2018)
- Stormwater Management Planning and Design Manual, Ontario Ministry of the Environment and Climate Change, March 2003 (SMPDM).
- Design Guidelines for Drinking-Water Systems, Ontario Ministry of the Environment and Climate Change, 2008 (GDWS).
- Fire Underwriters Survey, Water Supply for Public Fire Protection (FUS), 2020.
- Ontario Building Code 2012, Ministry of Municipal Affairs and Housing.

5 Water Servicing

5.1 Water Servicing Design Criteria

Table 5-1 below summarizes the Design Criteria that was used to establish the water demands and the required fire flows, based on the proposed building uses. The design parameters that apply to this project and used for calculations are identified below.

Table 5-1: Summary of Water Supply Design Criteria

Design Parameter	Value	Applies
Population Density – Single-family Home	3.4 persons/unit	
Population Density – Semi-detached/Townhomes	2.7 persons/unit	
Population Density – Terrace Flat	1.8 persons/unit	
Population Density – Bachelor Apartment	1.4 persons/unit	✓
Population Density – Bachelor + Den Apartment	1.4 persons/unit	
Population Density – One Bedroom Apartment	1.4 persons/unit	✓
Population Density – One Bedroom plus Den Apartment	1.4 persons/unit	
Population Density – Two Bedroom Apartment	2.1 persons/unit	✓
Population Density – Two Bedroom plus Den Apartment	2.1 persons/unit	
Population Density – Three Bedroom Apartment	3.1 persons/unit	
Average Day Demands – Residential	280 L/person/day	✓

Average Day Demands – Commercial / Institutional	5 L/m^2 floor area/day	
Average Day Demands – Light Industrial / Heavy Industrial	35,000 or 55,000 L/gross ha/day	
Maximum Day Demands – Residential	Max day factor (MECP GDWS Table 3-3) x Average Day Demands	9.28
Maximum Day Demands – Commercial / Institutional	1.5 x Average Day Demands	
Peak Hour Demands – Residential	Peak Hour factor (MECP GDWS Table 3-3) x Average Day Demands	13.97
Peak Hour Demands – Commercial / Institutional	2.7 x Average Day Demands	
Fire Flow Requirements Calculation	FUS	✓
Depth of Cover Required	2.4m	✓
Maximum Allowable Pressure	551.6 kPa (80 psi)	✓
Minimum Allowable Pressure	275.8 kPa (40 psi)	✓
Minimum Allowable Pressure during fire flow conditions	137.9 kPa (20 psi)	✓

5.2 Estimated Water Demands

Table 5-2 below summarizes the anticipated water demands for the proposed development based on following:

- 1 four storey apartment building with basement. Estimated total residential population of 35.7 persons.

Table 5-2: Residential Water Demand Summary

Water Demand Conditions	24 unit apartment building water demands (L/sec)
Average Day	0.116
Max Day	1.074
Peak Hour	1.617

Refer to **Table B1** in **Appendix B** for detailed calculations.

5.3 Boundary Conditions

Hydraulic Grade Line (HGL) boundary conditions were obtained from the City for design purposes. A copy of the correspondence received from the City is provided in **Appendix E**.

The following hydraulic grade line (HGL) boundary conditions were provided:

Maximum HGL = 114.2 m (70.2 psi)
Peak Hour = 109.7 m (63.8 psi)
Max Day Plus Fire Flow = 81.5 m (23.8 psi)
Ground Elevation =64.8m

Pressure losses were calculated for the proposed 12-meter long 50mm diameter water service from the water main on Maisonneuve Street to the building finished floor elevation of 64.06m. The pressure drops for the average day, max day, and peak hour conditions was 0.4 psi, 0.6 psi, and 0.8 psi respectively. The existing 152mm watermain and proposed 50mm service connection are suitable for the proposed apartment building domestic water supply.

Refer to **Table B2** in **Appendix B** for detailed calculations

5.4 Fire Flow Requirements

The following equation from the Fire Underwriters document "Water Supply for Public Fire Protection", 2020, was used for calculation of the on-site supply rates required to be supplied by the hydrants:

$F = 200 * C * \sqrt{(A)}$

where:

F	=	Required Fire flow in Litres per minute
C	=	Coefficient related to type of Construction
A	=	Total Floor Area in square metres

Fire flow calculations were completed for the apartment building based on the architectural plans and architect's input on the building construction type and sprinkler system. The building construction type was considered as Ordinary Construction (coefficient 1.0) equipped with sprinkler system. Based on these considerations, the required fire flow was estimated at 100.0 L/s (6,000 L/min).

Refer to **Table B2** in **Appendix B** for detailed calculations

As per the City of Ottawa water distribution guidelines, minimum pressure requirement during max day plus fire flow condition is 140 kPa (20 psi). The City provided a residual pressure for Max Day plus Fire flow of 23.8 psi. Therefore, the 152mm water supply on Maisonneuve Street is sufficient for the proposed development.

5.5 Review of Hydrant Spacing

A review of the hydrant spacing was completed to ensure compliance with Appendix I of Technical Bulletin ISTB-2018-02. As per Section 3 of Appendix I all hydrants within 150 meters were reviewed to assess the total possible contribution of flow from these hydrants. For each hydrant, the distance to the proposed building was determined to arrive at the contribution of fire flow. A review of the available fire hydrant within 150m distance along the fire route from the building was carried out which is summarized in the table below.

Hydrant #	Location	Color Code	City/Private	Distance from the Building (m)	Fire Flow Contribution for Class AA Hydrant (L/min)
380037H053	Maisonneuve	Blue	City	115	3,800
380037H054	Rocque	Blue	City	148	3,800
Total					7,600

Please refer to Figure A2 in Appendix A for location of the above noted hydrants. As noted in the table above, there are 2 existing hydrants available within 150m from the building contributing to 7,600 L/min of available flows which is more than the required fire flow of 6000 L/min. Therefore, the proposed development shall have sufficient hydrant coverage with the existing hydrants.

6 Sanitary Sewage Servicing

6.1 Sanitary Sewage Design Criteria

The sanitary sewer system is designed based on a population flow and an area-based infiltration allowance. The flows were calculated using City sewer design guidelines (SDG002). **Table 6-1** below summarizes the design parameters used.

Table 6-1: Summary of Wastewater Design Criteria / Parameters

Design Parameter	Value	Applies
Population Density – Single-family Home	3.4 persons/unit	
Population Density – Semi-detached Home	2.7 persons/unit	
Population Density – Duplex	2.3 persons/unit	
Population Density – Townhome (row)	2.7 persons/unit	
Population Density – Bachelor Apartment	1.4 persons/unit	✓
Population Density – Bachelor + Den Apartment	1.4 persons/unit	
Population Density – One Bedroom Apartment	1.4 persons/unit	✓
Population Density – One Bedroom plus Den Apartment	1.4 persons/unit	
Population Density – Two Bedroom Apartment	2.1 persons/unit	✓
Population Density – Two Bedroom plus Den Apartment	2.1 persons/unit	
Population Density – Three Bedroom Apartment	3.1 persons/unit	
Average Daily Residential Sewage Flow	280 L/person/day	✓
Average Daily Commercial / Intuitional Flow	28,000 L/gross ha/day	
Average Light / Heavy Industrial Daily Flow	35,000 / 55,000 L/gross ha/day	
Residential Peaking Factor – Harmon Formula (Min = 2.0, Max =4.0, with K=0.8)	$M = 1 + \frac{14}{4 + P^{0.5}} * k$	3.67
Commercial Peaking Factor	1.5	
Institutional Peaking Factor	1.5	
Industrial Peaking Factor	As per Table 4-B (SDG002)	

Unit of Peak Extraneous Flow (Total I/I)	0.33 L/s/gross ha	✓

6.2 Proposed Sewage Conditions

The estimated peak sanitary flow rate from the proposed property is **0.45 L/sec** based on City Design Guidelines. Sewage rates include a total infiltration allowance of 0.33 L/ha/sec based on the total gross site area. **Table 6-2** below summarizes the sewage anticipated peak sewage flows for the proposed site.

Table C1 in **Appendix C** summarizes the anticipated peak sewage flows from the proposed development up to the existing 250 mm diameter municipal sanitary sewer on Maisonneuve Street.

Table 6-2: Summary of Anticipated Sewage Rates

Sewage Condition	Sanitary Sewage Flow (L/sec)
Peak Residential Flow (for 35.7 persons)	0.425
Infiltration Flow (for 0.086 ha)	0.028
Peak Design Flow	0.453

6.3 Sanitary Servicing Review

Proposed building will be equipped with a sump pit and pump for sanitary servicing. Further details to be provided by a mechanical engineer. The sump pump discharge pipe will connect to the proposed 200mm dia. sanitary service at 2.0% slope, having a full flow capacity of 47.1 L/sec. Theoretical flow velocity in 200mm dia. sanitary service lateral will be 1.7 m/sec. Details on the sump pump rate and velocity will be provided by mechanical engineer to ensure that the flow velocity in the service lateral does not excess max. 3.0 m/sec.

Sanitary service lateral will connect to the existing 250mm sanitary sewer within Maisonneuve Street. A monitoring hole is proposed within the property as per the City of Ottawa sewer design guidelines. A sanitary manhole is proposed at the connection to the sanitary main on Maisonneuve Street, as per the City of Ottawa sewer design guidelines.

No capacity issue was identified during the pre-consultation meeting for the existing city sewer on Maisonneuve Street. The municipal sanitary sewer should therefore have sufficient residual capacity to convey the peak sanitary flow of 0.453 L/sec from the proposed development.

7 Storm Servicing & Stormwater Management

7.1 Design Criteria

The proposed stormwater management system is designed in conformance with the latest version of the City of Ottawa Design Guidelines (October 2012) Section 8 “Stormwater Management”. A summary of the design criteria that relates to this design report is the proceeding sections below.

- The storm sewer sizing will be based on the Rational Method and Manning’s Equation under free flow conditions for the 5-year storm using a 10-minute inlet time.
- Minimum sewer slopes to be based on minimum velocities for storm sewers of 0.80 m/sec.

- Post-development storm events shall be controlled to their respective pre-development storm event release rates. A pre-development runoff coefficient calculated based on existing land cover or a maximum equivalent 'C' of 0.5, whichever is less.
- Since the site is small, an alternative stormwater management option of overcontrolling roof area to a 2 year pre-development level with max C=0.5 while keeping the remaining site uncontrolled.
- Flows must be directed to the street.

7.2 Runoff Coefficients

Runoff coefficients used were based on actual areas taken from CAD. Runoff coefficients for impervious surfaces (roofs, asphalt, and concrete) were taken as 0.90, whereas those for pervious surfaces (grass/landscaping) were taken as 0.20. Gravel areas were considered as 0.70. The average runoff coefficients were calculated for the catchments (or drainage areas) using the area-weighting method in excel. C_{avg} for the site under pre-development conditions was 0.51 and under post-development conditions it is 0.75. The detailed calculations are included in **Table D1** and **Table D4** in **Appendix D**.

7.3 Pre-Development Conditions and Allowable Release Rate

In the pre-development conditions, the majority portion of the property drains towards the roadside ditch within the right of way of Maisonneuve Street. In the post development conditions, the stormwater runoff from the site will be controlled to pre-dev flows for up to and including 100-year storm with the average runoff coefficient of 0.5 max., as noted in the stormwater management criteria above. **Table 7-1** below summarizes the breakdown of the pre-development runoff from the site for the 2, 5, and 100-year storm respectively. **Table D3** in **Appendix D** provides detailed calculations on the total pre-development peak flows.

Therefore, the allowable release rate under post-development conditions for the site will be 9.2L/s, 12.5L/s, and 26.8L/s, for the 2, 5, and 100 year storm respectively.

Table 7-1: The total pre-development storm runoff

Area No.	Area (ha)	Storm=2 Yr		Storm=5 Yr		Storm=100 Yr	
		C_{AVG}	Q (L/sec)	C_{AVG}	Q (L/sec)	C_{AVG}	Q (L/sec)
E1(Site)	*0.0863*	*0.51*	*9.4*	*0.51*	*12.7*	*0.64*	*27.2*
E1(Site)(C=0.5)	*0.0863*	*0.5*	***9.2***	*0.5*	***12.5***	*0.63*	***26.8***

7.4 Post Development Runoff

The 2-year, 5-year and 100-year post-development uncontrolled peak flows were calculated using Rational Method. Due to increased impervious areas under post-development conditions uncontrolled flows will exceed that of pre-development conditions.

To control post-development storm events to their respective pre-development storm event release rates, attenuation and storage will be provided in post-development catchment P01, corresponding to the roof of the building. The remaining post development catchments will be uncontrolled and ultimately discharge into the roadside ditch within the right of way of Maisonneuve

Post development controlled and uncontrolled flowrates are summarized in **Table 7-2** below. Detailed calculations are provided in **Table D5** of **Appendix D**.

Table 7-2: Summary of Post-Development Controlled and Uncontrolled flowrates

Area No.	Area (ha)	Storm=2 Yr			Storm=5 Yr			Storm=100 Yr		
		C_{AVG}	Q (L/sec)	Q_{CAP} (L/sec)	C_{AVG}	Q (L/sec)	Q_{CAP} (L/sec)	C_{AVG}	Q (L/sec)	Q_{CAP} (L/sec)
P01-A (Roof)	0.0167	0.90	2.64	**(0.76)**	0.90	3.58	**(0.82)**	1.00	6.83	**(0.92)**
P01-B (Roof)	0.0202	0.90	3.67	**(0.78)**	0.90	4.98	**(0.84)**	1.00	9.49	**(0.94)**
P02	0.0534	0.65	7.45	7.45	0.65	10.10	10.10	0.82	21.65	*21.65*
Totals	***0.0863***		***13.76***	***(9.0)***		***18.67***	***(11.8)***		***37.96***	***(23.5)***

The controlled peak flowrates for the post development site are 9.0 L/s, 11.8 L/s, and 23.5 L/s for the 2, 5, and 100 years storm events respectively. Therefore, the post-development peak flow rates will be less than the respective pre-development flow rates during 2-year, 5-year and 100-year storm events with runoff coefficient of 0.5.

7.5 Flow Attenuation & Storage

As previously mentioned, flow attenuation and storage will be provided on the roof of the apartment building. The approximate roof area is 329 m2. It was assumed that 80 percent of the available roof area could accommodate maximum ponding of 0.15m and that two roof drains should be used. The two roof drain areas are denoted by P01-A and P01-B respectively. Based on an iterative approach to achieve the allowable release rates, the roof drains were chosen to be Watts Accutrol roof drains with 1 weir set to the ¼ open position. Refer to **Appendix D** for Watts Accutrol Roof Drain Product Data Sheet. The maximum required storage on the roof is 12.1 m^3 during 100-year storm event. Total of 13.1 m^3 storage volume is available on the roof.

Table D6 in **Appendix D** provides details of the controlled release rates. **Table D7, Table D8** and **Table D9** in **Appendix D** provides the storage volumes necessary to attenuate the release rates to allowable rates.

7.6 Foundation and Under slab Drains

As noted in the Geotech report prepared by EXP Services Inc., foundation and under slab drains will be required for the proposed development. The foundation and under slab drain will be collected in a sump pump within the mechanical room (refer to mechanical drawings for details) and will be pumped to the roadside ditch in front of the building via 100mm dia. PVC DR 18 storm service lateral.

8 Conclusions and Recommendations

- Peak sanitary flows from the proposed development are expected to be 0.45 L/s which represents an estimated 1.1% of the capacity of the existing 250mm municipal sanitary sewer on Maisonneuve Street.
- The 152 mm diameter municipal watermain on Maisonneuve Street has sufficient capacity and pressure to meet the domestic and fire flow demands of the proposed development.
- Stormwater runoff from the site will be restricted from the roof only of the proposed building. The remainder of the site will flow uncontrolled to the existing roadside ditch within the right on way on Maisonneuve Street. Stormwater runoff will not be treated on site.

9 Legal Notification

This report was prepared by EXP Services Inc. for the account of PulseSocieties Ltd.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. EXP Services Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this project.

Appendix A – Figures

Figure A1 – Site Location Plan

Figure A2 – Hydrant Location Plan

FIGURE A1: Site Location Plan

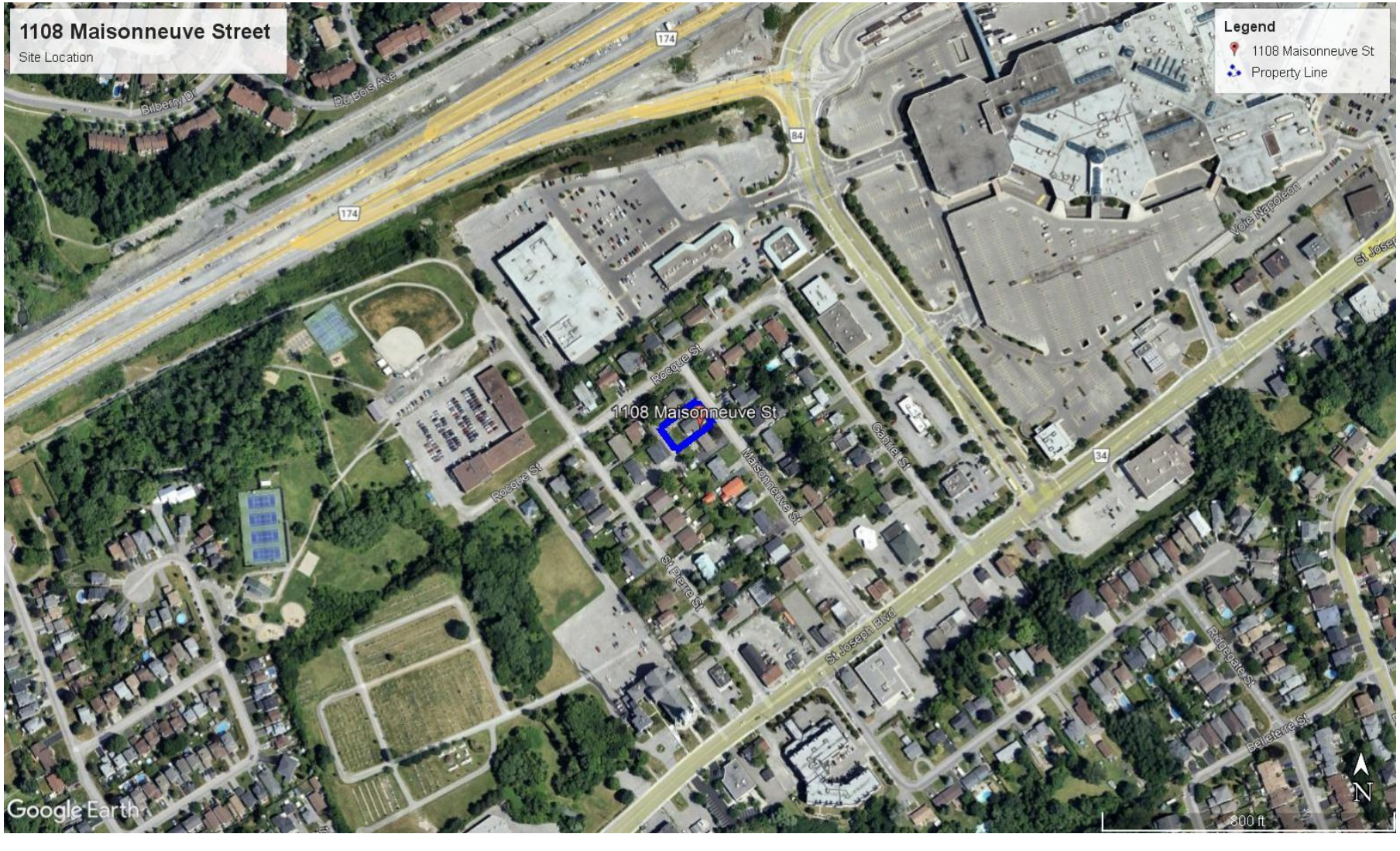


FIGURE A2: HYDRANT LOCATION PLAN

Appendix B – Water Servicing

Table B1: Water Demand Chart

Table B2: Fire Flow Requirements Based on Fire Underwriters Survey (FUS)

Table B3: Estimated Water Pressure at Proposed Building FFE

TABLE B-1: Water Demand Chart

Location: 1108 Maisonneuve Street
Project No: OTT-24006872-A0
Designed by: A. Johnson
Checked By: A. Jariwala
Date Revised: July 2024

Water Consumption
Residential = **280** L/cap/day
Commercial = 5.0 L/m^2/day

Population Densities

Single Family	3.4	person/unit
Semi-Detahced	2.7	person/unit
Duplex	2.3	person/unit
Townhome (Row)	2.7	person/unit
Bachelor Apartment	1.4	person/unit
1 Bedroom Apartment	1.4	person/unit
2 Bedroom Apartment	2.1	person/unit
3 Bedroom Apartment	3.1	person/unit
4 Bedroom Apartment	4.1	person/unit
Avg. Apartment	1.8	person/unit

Proposed Buildings	No. of Residential Units										Total Persons (pop)	Residential Demands in (L/sec)					Commercial						Total Demands (L/sec)		
	Singles/Semis/Towns				Apartments								Peaking Factors (x Avg Day)						Peaking Factors (x Avg Day)						
	Single Family	Semi-Detached	Duplex	Townhome	Studio	1 Bedroom	2 Bedroom	3 Bedroom	4 Bedroom	Avg Apt.		Avg. Day Demand (L/day)	Max Day	Peak Hour	Max Day Demand (L/day)	Peak Hour Demand (L/day)	Area (m^2)	Avg Demand (L/day)	Max Day	Peak Hour	Max Day Demand (L/day)	Peak Hour Demand (L/day)	Avg Day (L/s)	Max Day (L/s)	Max Hour (L/s)
Appartment Building					11	10	3				35.7	9,996	9.28	13.97	92,778	139,667							0.116	1.074	1.617
Total =					11	10	3				35.7	9,996			92,778	139,667							0.12	1.07	1.62

PEAKING FACTORS FROM MOECC TABLE 3-3 (Peaking Factors for Water Systems Servicing Fewer Than 500 persons)

Dwelling Units Serviced	Equiv Pop	Night Min Factor	Maximum Day Factor	Peak Hour Factor
10	30	0.10	9.50	14.30
50	150	0.10	4.90	7.40
100	300	0.20	3.60	5.40
150	450	0.30	3.00	4.50
167	500	0.40	2.90	4.30

TABLE B2: FIRE FLOW REQURIEMENTS BASED ON FIRE UNDERWRITERS SURVEY(FUS) 2020
PROJECT: OTT-24006872-A0
Building: **1108 Maisonneuve Street**

An estimate of the Fire Flow required for a given fire area may be estimated by:

F = 220 * C * SQRT(A)

where: F = required fire flow in litres per minute
A = total floor area in m^2 (including all storeys, but excluding basements at least 50% below grade)
C = coefficient related to the type of construction

Task	Options	Multiplier	Input	Value Used	Fire Flow Total (L/min)
Choose Building Frame (C)	Wood Frame	1.5	Ordinary Construction	1	
	Ordinary Construction	1			
	Non-combustible Construction	0.8			
	Fire Resistive Construction	0.6			
	Fourth Floor		330	1320.0 m²	
	Third Floor		330		
	Second Floor		330		
	First Floor		330		
	Basement (At least 50% below grade, not included)		330		
Fire Flow (F)	F = 220 * C * SQRT(A)				7,993
Fire Flow (F)	Rounded to nearest 1,000				**8,000**

Reductions/Increases Due to Factors Effecting Burning

Task	Options	Multiplier	Input	Value Used	Fire Flow Change (L/min)	Fire Flow Total (L/min)
Choose Combustibility of Building Contents	Non-combustible	-25%	Limited Combustible	-15%	-1,200	6,800
	Limited Combustible	-15%				
	Combustible	0%				
	Free Burning	15%				
	Rapid Burning	25%				
Choose Reduction Due to Sprinkler System	**Adequate** Sprinkler Conforms to NFPA13	-30%	Adequate Sprinkler Conforms to NFPA13	-30%	-2,040	4,760
	No Sprinkler	0%				
	Standard Water Supply for Fire Department Hose Line and for Sprinkler System	-10%	Standard Water Supply for Fire Department Hose Line and for Sprinkler System	-10%	-680	4,080
	Not Standard Water Supply or Unavailable	0%				
	Fully Supervised Sprinkler System	-10%	Fully Supervised Sprinkler System	-10%	-680	3,400
	Not Fully Supervised or N/A	0%				

Choose Structure Exposure Distance	Exposures	Separation Dist (m)	Cond	Separation Conditon	Exposed Wall type	Exposed Wall Length: Length (m)	No of Storeys	Length-Height Factor	Sub-Conditon	Charge (%)	Total Charge (%)	Total Exposure Charge (L/min)	
	West	9.16	2	3.1 to 10	Type V	14.25	1	14.25	2A	15%	40%	2,720	6,120
	East	4.78	2	3.1 to 10	Type V	8.54	1	8.54	2A	15%			
	South	16.92	3	10.1 to 20	Type V	15.91	1	15.91	3A	10%			
	North	32.97	5	30.1 to 45	Type V	32.97	1	32.97	6	0%			

Obtain Required Fire Flow		
	Total Required Fire Flow, Rounded to the Nearest 1,000 L/min =	**6,000**
	Total Required Fire Flow, L/s =	**100.0**

Exposure Charges for Exposing Walls of Wood Frame Construciton (from Table G5)

Type V	Wood Frame
Type IV-III (U)	Mass Timber or Ordinary with Unprotected Openings
Type IV-III (P)	Mass Timber or Ordinary with Protected Openings
Type II-I (U)	Noncombustible or Fire Resistive with Unprotected Openings
Type II-I (P)	Noncombustible or Fire Resistive with Protected Openings

Conditons for Separation

Separation Dist	Condition
0m to 3m	1
3.1m to 10m	2
10.1m to 20m	3
20.1m to 30m	4
> 30.1m	5

TABLE B3

ESTIMATED WATER PRESSURE AT PROPOSED BUILDING FFE

Description	From	To	Demand (L/sec)	Pipe Length (m)	Pipe Dia (mm)	Dia (m)	Q (m3/sec)	Area (m2)	C	Vel (m/s)	Slope of HGL (m/m)	Head Loss (m)	Elev From (m)	Elev To (m)	*Elev Diff (m)	Pressure From kPa	(psi)	Pressure To kPa	(psi)	Pressure Drop (psi)
Avg Day Conditons																				
Single 50mm water service	Main	Building	0.12	12 m	50	0.050	0.0001	0.001963	110	0.0589	0.0002	0.0024	63.80	64.06	-0.3	494.4	(71.7)	491.9	(71.3)	0.4
Max Day Conditons																				
Single 50mm watermain	Main	Building	1.07	12 m	50	0.050	0.0011	0.001963	110	0.5469	0.01215	0.1458	63.80	64.06	-0.3	450.3	(65.3)	446.3	(64.7)	0.6
Peak Hour Conditons																				
Single 50mm watermain	Main	Building	1.62	12 m	50	0.050	0.0016	0.001963	110	0.8233	0.02592	0.3111	63.80	64.06	-0.3	450.3	(65.3)	444.7	(64.5)	0.8

Water Demand Info

Average Demand =	0.12	L/sec
Max Day Demand =	1.07	L/sec
Peak Hr Deamand =	1.62	L/sec
Fireflow Requriement =	116.7	L/sec
Max Day Plus FF Demand =	117.7	L/sec

Pipe Lengths

From watermain to building =	12 m
Hazen Williams C Factor for Friction Loss in Pipe, C=	110

Boundary Conditon

	Min HGL	Max HGL	Max Day + Fireflow
HGL (m)	109.7	114.2	81.5
Approx Ground Elev (m) =	63.80	63.80	63.80
Approx Bldg FF Elev (m) =	64.06	64.06	64.06
Pressure (m) =	45.9	50.4	17.7
Pressure (Pa) =	450,279	494,424	173,637
Pressure (psi) =	65.3	71.7	25.2

(From City of Ottawa)

Appendix C – Sanitary Demand Chart

Table C1: Sanitary Demand Chart

TABLE C1 : SANITARY DEMAND CHART

LOCATION				RESEDENTIAL AREAS AND POPULAITONS											COMMERCIAL			INDUSTRIAL			INSTITUTIONAL			INFILTRATION				SEWER DATA						
					NUMBER OF UNITS							POPULATION				AREA (ha)			AREA (ha)						AREA (ha)										
Street	U/S MH	D/S MH	Desc	Area (ha)	Singles	Semis	Towns	1-Bed Apt.	2-Bed Apt.	3-Bed Apt.	4-Bed Apt.	INDIV	ACCU	Peak Factor	Peak Flow (L/sec)	INDIV	ACCU	Peak Flow (L/sec)	INDIV	ACCU	Peak Factor (per	AREA (Ha)	ACCU AREA (Ha)	Peak Flow (L/sec)	INDIV	ACCU	INFILT FLOW (L/s)	TOTAL FLOW (L/s)	Nom Dia (mm)	Actual Dia (mm)	Slope (%)	Length (m)	Capacity (L/sec)	Q/Q_{CAP} (%)	Full Velocity (m/s)
Maisonneuve	BLDG	SANMH 201		0.086				21	3			35.7	35.7	3.67	0.425										0.086	0.086	0.028	***0.453***	200	201.16	1.50	13.16	40.8	1.1%	1.5
				0.086				**21**				**36**													**0.086**									

Residential Avg. Daily Flow, q (L/p/day) =	280	Peak Population Flow, (L/sec) =	P*q*M/86.4	Unti Type	Persons/Unit
Residential Correction Factor, K =	0.80	Peak Extraneous Flow, (L/sec) =	I*Ac	Singles	3.0
Manning N =	0.013	Residential Peaking Factor, M =	1 + (14/(4+P^0.5)) * K	Semi-Detached	2.7
Peak extraneous flow, I (L/s/ha) =	0.33	A_c = Cumulative Area (hectares)		Townhomes	2.7
		P = Population (thousands)		Single Apt. Unit	1.4
				2-bed Apt. Unit	2.1
		Sewer Capacity, Qcap (L/sec) =	$1/N \; S^{1/2} \; R^{2/3} \; A_c$	3-bed Apt. Unit	3.1
		(Manning's Equation)		4-bed Apt. Unit	3.8

Designed:	Project:
A. Johnson B.Eng, EIT	OTT-24006872-A0
Checked:	Location:
A. Jariwala M.Eng, P.Eng	1108 Maisonneuve Street, Ottawa, Ontario
File Reference:	Page No:
OTT-24006872-A0 - MAISONNEUVE - SAN Design Sheet.xlsx	**1 of 1**

Appendix D – SWM Design Sheets

Table D1: Calculation of Average Runoff Coefficients for Pre-Development Conditions

Table D2: Calculation of Catchment Time of Concentration for Pre-Development Conditions

Table D3: Calculation of Peak Runoff for Pre-Development Conditions

Table D4: Calculation of Allowable Release Rate With C=0.5

Table D5: Average Runoff Coefficients for Post-Development Conditions

Table D6: Summary of Post-Development Peak Flows (Uncontrolled And Controlled)

Table D7: 2-year, 5-year & 100-year Roof Drains Design Sheet - Using Flow Controlled Roof Drains

Table D8: Storage Volumes Roof Area #S01-1 (2 Year, 5 Year and 100 Year Storms) (MRM)

Table D9: Storage Volumes Roof Area #S02-2 (2 Year, 5 Year and 100 Year Storms) (MRM)

Watts Accutrol Roof Drain Product Data Sheet

TABLE D1

CALCULATION OF AVERAGE RUNOFF COEFFICIENTS FOR PRE-DEVELOPMENT CONDITIONS

Area No.	Roof Areas		Asphalt Areas		Concrete / Pavers		Gravel		Grassed Areas		Sum AC	Total Area (m^2)	C_{AVG}
	C=0.90		C=0.90		C=0.90		C=0.70		C=0.20				
	Area (m^2)	A * C	Area (m^2)	A * C	Area (m^2)	A * C	Area (m^2)	A * C	Area (m^2)	A * C			
E1 (SITE)	150.36	135.3	184.17	165.8	13.18	11.9	45.26	31.7	469.80	94.0	438.6	862.76	0.51

TABLE D2

CALCULATION OF CATCHMENT TIME OF CONCENTRATION FOR PRE-DEVELOPMENT CONDITIONS

Catchment No.	Area (ha)	High Elev (m)	Low Elev (m)	Flow Path Length (m)	Indiv Slope	Avg. C	Time of Conc. Tc (mins)	Description
E1 (SITE)	0.0863	64.33	63.36	40.0	2.4	0.51	2.44	10 minutes

Notes

1) For Catchments with Runoff Coefficient less than C=0.40, Time of Concentration Based on Federal Aviation Formula (Airport Method), from MTO Drainage Manual Equation 8.16, where: $T_C = 3.26*(1.1-C)*L^{0.5}/S_W^{0.33}$

2) For Catchments with Runoff Coefficient greater than C=0.40, Time of Concentration Based on Bransby Williams Equation, from MTO Drainage Manual Equation 8.15, where: $T_C = 0.057*L/(S_W^{0.2}*A^{0.1})$

3) The standard minimium Time of Concentraion of 10 minutes was used, rather then the calaculted time, since calcualted time was less than 10 minutes.

TABLE D3

CALCULATION OF PEAK RUNOFF FOR PRE-DEVELOPMENT CONDITIONS

Area No	Outlet Location	Area (ha)	Time of Conc, Tc (min)	Storm = 2 yr			Storm = 5 yr			Storm = 100 yr		
				I_2 (mm/hr)	Cavg	Q_2 (L/sec)	I_5 (mm/hr)	Cavg	Q_5 (L/sec)	I_{100} (mm/hr)	Cavg	Q_{100} (L/sec)
E1 (SITE)	OFFSITE	0.0863	10	76.81	0.51	**9.4**	104.19	0.51	**12.7**	178.56	0.64	27.2

Notes

1) Intensity, $I = 732.951/(Tc+6.199)^{0.810}$ (2-year)

2) Intensity, $I = 998.071/(Tc+6.053)^{0.814}$ (5-year)

3) Intensity, $I = 1735.688/(Tc+6.014)^{0.820}$ (100-year)

4) Cavg for 100-year is increased by 25% to a maximum of 1.0

5) The standard minimium Time of Concentraion of 10 minutes was used, rather then the calaculted time, since calcualted time was less than 10 minutes.

TABLE D4

CALCULATION OF ALLOWABLE RELEASE RATE WITH C=0.5

Area No	Outlet Location	Area (ha)	Time of Conc, Tc (min)	Storm = 2 yr			Storm = 5 yr			Storm = 100 yr		
				I_2 (mm/hr)	Cavg	Q_2 (L/sec)	I_5 (mm/hr)	Cavg	Q_5 (L/sec)	I_{100} (mm/hr)	Cavg	Q_{100} (L/sec)
E1 (SITE)	OFFSITE	0.0863	10	76.81	0.50	**9.2**	104.19	0.50	**12.5**	178.56	0.63	**26.8**

Notes

1) Intensity, $I = 732.951/(Tc+6.199)^{0.810}$ (2-year)

2) Intensity, $I = 998.071/(Tc+6.053)^{0.814}$ (5-year)

3) Intensity, $I = 1735.688/(Tc+6.014)^{0.820}$ (100-year)

4) Cavg for 100-year is increased by 25% to a maximum of 1.0

5) The standard minimium Time of Concentraion of 10 minutes was used, rather then the calaculted time, since calcualted time was less than 10 minutes.

TABLE D5

AVERAGE RUNOFF COEFFICIENTS FOR POST-DEVELOPMENT CONDITIONS

$C_{ASPH/CONC}$ = 0.90				C_{ROOF} = 0.90			C_{GRASS} = 0.20			
Area No.	Asphalt & Conc Areas (m^2)	A * C_{ASPH}	Roof Areas (m^2)	A * C_{ROOF}	Grassed Areas (m^2)	A * C_{GRASS}	Sum AC	Total Area (m^2)	C_{AVG} (see note)	Comment
P01-A (Roof)			138	123.8			123.8	138	0.90	Roof - Front
P01-B (Roof)			191	172.0			172.0	191	0.90	Roof - Rear
P02	346	311.2			188	37.7	348.9	534	0.65	Areas outside the building
Totals							645	862.78	0.75	
Notes										

TABLE D6

SUMMARY OF POST-DEVELOPMENT PEAK FLOWS (Uncontrolled and controlled)

Area No	Area (ha)	Time of Conc, Tc (min)	Storm = 2 yr				Storm = 5 yr				Storm = 100 yr				ICD
			C_{AVG}	I_2 (mm/hr)	Q (L/sec)	Q_{CAP} (L/sec)	C_{AVG}	I_5 (mm/hr)	Q (L/sec)	Q_{CAP} (L/sec)	C_{AVG}	I_{100} (mm/hr)	Q (L/sec)	Q_{CAP} (L/sec)	
P01-A (Roof)	0.0138	10	0.90	76.81	2.64	**(0.76)**	0.90	104.19	3.58	**(0.82)**	1.00	178.56	6.83	**(0.92)**	**WATTS ACCUTROL 1 WEIR - 1/4 OPEN**
P01-B (Roof)	0.0191	10	0.90	76.81	3.67	**(0.78)**	0.90	104.19	4.98	**(0.84)**	1.00	178.56	9.49	**(0.94)**	**WATTS ACCUTROL 1 WEIR - 1/4 OPEN**
P02	0.0534	10	0.65	76.81	7.45	7.45	0.65	104.19	10.10	10.10	0.82	178.56	21.65	21.65	
Post-Dev Site	**0.0863**				13.76	**(9.0)**			18.67	**(11.8)**			37.96	**(23.5)**	
Pre-Dev Site (C=0.5)						9.2				12.5				26.8	

Notes

1) Intensity, I = 732.951/(Tc+6.199) $^{0.810}$ (2-year)

2) Intensity, I = 998.071/(Tc+6.053) $^{0.814}$ (5-year)

3) Intensity, I = 1735.688/(Tc+6.014) $^{0.820}$ (100-year)

4) Cavg for 100-year is increased by 25% to a maximum of 1.0

5) Time of Concentration, Tc = ***10 mins***

5) Controlled release rate (Q_{CAP}) is denoted by **(1.03)**

Table D7: 2-year, 5-year & 100-year Roof Drains Design Sheet - Using Flow Controlled Roof Drains

Project: OTT-24006872-A0

Location: Maisonneuve Street. Ottawa, On.

Date: July 2024

Area #	Roof Drain Type	No Drains per Area	No of Weirs per Drain	Weir Position	Runoff Coeff (Cavg)		Drainage Area		2-year Event						5-year Event						100-year Event						Storage Required *(MRM)*			Maximium Storage Provided at Spill Elevation					
					2-year & 5-year	100-year	m^2	ha	Runoff Rate (L/sec)	2yr Ponding Depth (mm)	Roof Drain Capacity Per Weir (gpm)	Roof Drain Capacity Per Drain per weir (gpm)	Roof Drain Capacity Per Drain (L/sec)	Total Flow From Roof Drains (L/sec)	Runoff Rate (L/sec)	5yr Ponding Depth (mm)	Roof Drain Capacity Per Weir (gpm)	Roof Drain Capacity Per Drain per weir (gpm)	Roof Drain Capacity Per Drain (L/sec)	Total Flow From Roof Drains (L/sec)	Runoff Rate (L/sec)	100yr Ponding Depth (mm)	Roof Drain Capacity Per Weir (gpm)	Roof Drain Capacity Per Drain per weir (gpm)	Roof Drain Capacity Per Drain (L/sec)	Total Flow From Roof Drains (L/sec)	2-year (m^3)	5-year (m^3)	100-year (m^3)	Area Available for Storage (m^2)	Max Prism Depth (mm)	Max Prism Volume (m^3)	% Volume Used for Ponding		
																																	2-year	5-year	100-year
P01-A	RD1	1	1	3-1/4 open	0.90	1.00	137.50	0.0138	2.642	91	12.1	12.1	0.760	0.760	3.585	111	13.1	13.1	0.823	0.823	6.825	142	14.6	14.6	0.921	0.921	1.24	2.26	4.69	110.0	150	5.5	22%	41%	85%
P01-B	RD1	1	1	3-1/4 open	0.90	1.00	191.08	0.0191	3.672	97	12.4	12.4	0.779	0.779	4.981	117	13.4	13.4	0.842	0.842	9.485	148	14.9	14.9	0.940	0.940	2.07	3.64	7.37	152.9	150	7.6	27%	48%	96%
Totals					0.9	0.9	**328.6**	**0.0329**	**6.31**		**24.40**		**1.54**	**1.54**	**8.57**		**26.40**		**1.67**	**1.67**	**16.31**		**29.50**		**1.86**	**1.86**	**3.31**	**5.90**	**12.07**	**263**		**13.1**			
Min										**91**						**111**						**142**													
Max										**97**						**117**						**148**													

Runoff Based on the Following:

Storm Frequency (years) =	2	5	100
Time of Conc (mins) =	10	10	10
Storm Intensity (mm/hr) =	76.8	104.2	178.6

Roof Drains have Following Flow Rates per weir: WATTS Flow Controlled Drain

Weir Position	Flow (gpm) per depth							Max Flow Rate per Weir @150mm (L/s)
	0	25	50	75	100	125	150	
	0	0.025	0.05	0.075	0.1	0.125	0.15	
1-None	0	0	0	0	0	0	0	0.000
2-Closed	0	5	5	5	5	5	5	0.315
3-1/4 open	0	5	10	11	13	14	15	0.946
4-1/2 open	0	5	10	12	15	18	20	1.262
5-3/4 open	0	5	10	14	18	21	25	1.577
6-Full	0	5	10	15	20	25	30	1.890

Roof Drain Types

Drain Type =	RD1	RD2	RD3
Max Overflow Depth (mm)	150 mm	150 mm	150 mm
Flow Controlled (Yes/No)	Yes	Yes	Yes
Ponding	Yes	Yes	Yes
Weir Desc	Accutrol	Accutrol	Accutrol
No. Weirs	1	2	3

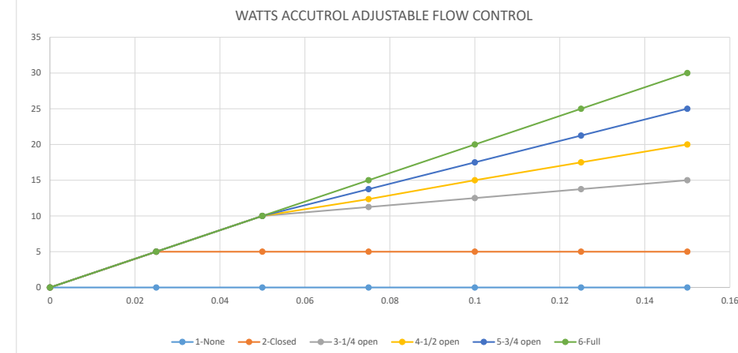


Table D8 Storage Volumes Roof Area #P01-A (2 Year, 5 Year and 100 Year Storms) (MRM)

C_{AVG} = 0.90 (dimmensionless)
C_{100} = 1.00
Time Interval = 5 (mins)
Drainage Area = 0.01375 (hectares)

	Release Rate = 0.760 (L/sec)					Release Rate = 0.8233 (L/sec)					Release Rate = 0.9211 (L/sec)				
	Return Period = 2 (years)					Return Period = 5 (years)					Return Period = 100 (years)				
	IDF Parameters, A = 732.951			, B =	0.810	IDF Parameters, A = 998.071			, B =	0.814	IDF Parameters, A = 1735.69			, B =	0.820
	(I = A/(T_c+C)			, C =	6.199	(I = A/(T_c+C)			, C =	6.053	(I = A/(T_c+C)			, C =	6.014
Duration (min)	Rainfall Intensity, I (mm/hr)	Peak Flow (L/sec)	Release Rate (L/sec)	Storage Rate (L/sec)	Storage (m^3)	Rainfall Intensity, I (mm/hr)	Peak Flow (L/sec)	Release Rate (L/sec)	Storage Rate (L/sec)	Storage (m^3)	Rainfall Intensity, I (mm/hr)	Peak Flow (L/sec)	Release Rate (L/sec)	Storage Rate (L/sec)	Storage (m^3)
0	167.2	5.8	0.76	5.0	0.00	230.5	8.8	0.823	8.0	0.00	398.6	15.2	0.9	14.3	0.00
5	103.6	3.6	0.76	2.8	0.84	141.2	5.4	0.823	4.6	1.37	242.7	9.3	0.9	8.4	2.51
10	76.8	2.6	0.76	1.9	1.13	104.2	4.0	0.823	3.2	1.90	178.6	6.8	0.9	5.9	3.54
15	61.8	2.1	0.76	1.4	1.23	83.6	3.2	0.823	2.4	2.13	142.9	5.5	0.9	4.5	4.09
20	52.0	1.8	0.76	1.0	1.24	70.3	2.7	0.823	1.9	2.23	120.0	4.6	0.9	3.7	4.40
25	45.2	1.6	0.76	0.8	1.19	60.9	2.3	0.823	1.5	2.26	103.8	4.0	0.9	3.0	4.57
30	40.0	1.4	0.76	0.6	1.11	53.9	2.1	0.823	1.2	2.23	91.9	3.5	0.9	2.6	4.66
35	36.1	1.2	0.76	0.5	1.01	48.5	1.9	0.823	1.0	2.17	82.6	3.2	0.9	2.2	4.69
40	32.9	1.1	0.76	0.4	0.89	44.2	1.7	0.823	0.9	2.08	75.1	2.9	0.9	2.0	4.68
45	30.2	1.0	0.76	0.3	0.76	40.6	1.6	0.823	0.7	1.97	69.1	2.6	0.9	1.7	4.64
50	28.0	1.0	0.76	0.2	0.61	37.7	1.4	0.823	0.6	1.85	64.0	2.4	0.9	1.5	4.57
55	26.2	0.9	0.76	0.1	0.46	35.1	1.3	0.823	0.5	1.71	59.6	2.3	0.9	1.4	4.48
60	24.6	0.8	0.76	0.1	0.30	32.9	1.3	0.823	0.4	1.57	55.9	2.1	0.9	1.2	4.38
65	23.2	0.8	0.76	0.0	0.14	31.0	1.2	0.823	0.4	1.42	52.6	2.0	0.9	1.1	4.26
70	21.9	0.8	0.76	0.0	-0.03	29.4	1.1	0.823	0.3	1.26	49.8	1.9	0.9	1.0	4.12
75	20.8	0.7	0.76	0.0	-0.20	27.9	1.1	0.823	0.2	1.09	47.3	1.8	0.9	0.9	3.98
80	19.8	0.7	0.76	-0.1	-0.37	26.6	1.0	0.823	0.2	0.92	45.0	1.7	0.9	0.8	3.83
85	18.9	0.7	0.76	-0.1	-0.55	25.4	1.0	0.823	0.1	0.75	43.0	1.6	0.9	0.7	3.68
90	18.1	0.6	0.76	-0.1	-0.73	24.3	0.9	0.823	0.1	0.57	41.1	1.6	0.9	0.7	3.51
95	17.4	0.6	0.76	-0.2	-0.92	23.3	0.9	0.823	0.1	0.38	39.4	1.5	0.9	0.6	3.34
100	16.7	0.6	0.76	-0.2	-1.10	22.4	0.9	0.823	0.0	0.20	37.9	1.4	0.9	0.5	3.17
105	16.1	0.6	0.76	-0.2	-1.29	21.6	0.8	0.823	0.0	0.01	36.5	1.4	0.9	0.5	2.99
110	15.6	0.5	0.76	-0.2	-1.48	20.8	0.8	0.823	0.0	-0.18	35.2	1.3	0.9	0.4	2.80
115	15.0	0.5	0.76	-0.2	-1.67	20.1	0.8	0.823	-0.1	-0.37	34.0	1.3	0.9	0.4	2.61
120	14.6	0.5	0.76	-0.3	-1.87	19.5	0.7	0.823	-0.1	-0.57	32.9	1.3	0.9	0.3	2.42
Max =					**1.24**					**2.26**					**4.69**

Notes

1) Peak flow is equal to the product of 2.78 x C x I x A
2) Rainfall Intensity, I = A/(Tc+C)^B
3) Release Rate = Min (Release Rate, Peak Flow)
4) Storage Rate = Peak Flow - Release Rate
5) Storage = Duration x Storage Rate
6) Maximium Storage = Max Storage Over Duration

Table D9 Storage Volumes Roof Area #P01-B (2 Year, 5 Year and 100 Year Storms) (MRM)

C_{AVG} = 0.90 (dimmensionless)
C_{100} = 1.00
Time Interval = 5 (mins)
Drainage Area = 0.01911 (hectares)

	Release Rate = 0.779 (L/sec)					Release Rate = 0.8423 (L/sec)					Release Rate = 0.9400 (L/sec)				
	Return Period = 2 (years)					Return Period = 5 (years)					Return Period = 100 (years)				
	IDF Parameters, A = 732.951			, B =	0.810	IDF Parameters, A = 998.071			, B =	0.814	IDF Parameters, A = 1735.69			, B =	0.820
	(I = A/(T_c+C)			, C =	6.199	(I = A/(T_c+C)			, C =	6.053	(I = A/(T_c+C)			, C =	6.014
Duration (min)	Rainfall Intensity, I (mm/hr)	Peak Flow (L/sec)	Release Rate (L/sec)	Storage Rate (L/sec)	Storage (m^3)	Rainfall Intensity, I (mm/hr)	Peak Flow (L/sec)	Release Rate (L/sec)	Storage Rate (L/sec)	Storage (m^3)	Rainfall Intensity, I (mm/hr)	Peak Flow (L/sec)	Release Rate (L/sec)	Storage Rate (L/sec)	Storage (m^3)
0	167.2	8.0	0.78	7.2	0.00	230.5	12.2	0.842	11.4	0.00	398.6	21.2	0.9	20.2	0.00
5	103.6	5.0	0.78	4.2	1.25	141.2	7.5	0.842	6.7	2.00	242.7	12.9	0.9	12.0	3.59
10	76.8	3.7	0.78	2.9	1.74	104.2	5.5	0.842	4.7	2.82	178.6	9.5	0.9	8.5	5.13
15	61.8	3.0	0.78	2.2	1.96	83.6	4.4	0.842	3.6	3.24	142.9	7.6	0.9	6.7	5.99
20	52.0	2.5	0.78	1.7	2.05	70.3	3.7	0.842	2.9	3.47	120.0	6.4	0.9	5.4	6.52
25	45.2	2.2	0.78	1.4	2.07	60.9	3.2	0.842	2.4	3.59	103.8	5.5	0.9	4.6	6.86
30	40.0	1.9	0.78	1.1	2.04	53.9	2.9	0.842	2.0	3.64	91.9	4.9	0.9	3.9	7.09
35	36.1	1.7	0.78	0.9	1.98	48.5	2.6	0.842	1.7	3.64	82.6	4.4	0.9	3.4	7.24
40	32.9	1.6	0.78	0.8	1.90	44.2	2.3	0.842	1.5	3.61	75.1	4.0	0.9	3.1	7.32
45	30.2	1.4	0.78	0.7	1.80	40.6	2.2	0.842	1.3	3.55	69.1	3.7	0.9	2.7	7.37
50	28.0	1.3	0.78	0.6	1.68	37.7	2.0	0.842	1.2	3.47	64.0	3.4	0.9	2.5	7.37
55	26.2	1.3	0.78	0.5	1.56	35.1	1.9	0.842	1.0	3.38	59.6	3.2	0.9	2.2	7.35
60	24.6	1.2	0.78	0.4	1.42	32.9	1.7	0.842	0.9	3.27	55.9	3.0	0.9	2.0	7.30
65	23.2	1.1	0.78	0.3	1.28	31.0	1.6	0.842	0.8	3.15	52.6	2.8	0.9	1.9	7.24
70	21.9	1.0	0.78	0.3	1.13	29.4	1.6	0.842	0.7	3.02	49.8	2.6	0.9	1.7	7.16
75	20.8	1.0	0.78	0.2	0.97	27.9	1.5	0.842	0.6	2.88	47.3	2.5	0.9	1.6	7.07
80	19.8	0.9	0.78	0.2	0.81	26.6	1.4	0.842	0.6	2.73	45.0	2.4	0.9	1.4	6.96
85	18.9	0.9	0.78	0.1	0.65	25.4	1.3	0.842	0.5	2.58	43.0	2.3	0.9	1.3	6.84
90	18.1	0.9	0.78	0.1	0.48	24.3	1.3	0.842	0.4	2.42	41.1	2.2	0.9	1.2	6.72
95	17.4	0.8	0.78	0.1	0.30	23.3	1.2	0.842	0.4	2.26	39.4	2.1	0.9	1.2	6.58
100	16.7	0.8	0.78	0.0	0.13	22.4	1.2	0.842	0.3	2.09	37.9	2.0	0.9	1.1	6.44
105	16.1	0.8	0.78	0.0	-0.05	21.6	1.1	0.842	0.3	1.92	36.5	1.9	0.9	1.0	6.29
110	15.6	0.7	0.78	0.0	-0.23	20.8	1.1	0.842	0.3	1.74	35.2	1.9	0.9	0.9	6.14
115	15.0	0.7	0.78	-0.1	-0.41	20.1	1.1	0.842	0.2	1.56	34.0	1.8	0.9	0.9	5.98
120	14.6	0.7	0.78	-0.1	-0.60	19.5	1.0	0.842	0.2	1.38	32.9	1.7	0.9	0.8	5.81
Max =					**2.07**					**3.64**					**7.37**

Notes

1) Peak flow is equal to the product of 2.78 x C x I x A
2) Rainfall Intensity, I = A/(Tc+C)^B
3) Release Rate = Min (Release Rate, Peak Flow)
4) Storage Rate = Peak Flow - Release Rate
5) Storage = Duration x Storage Rate
6) Maximium Storage = Max Storage Over Duration

WATTS®	Adjustable Accutrol Weir Tag: _____	Adjustable Flow Control for Roof Drains

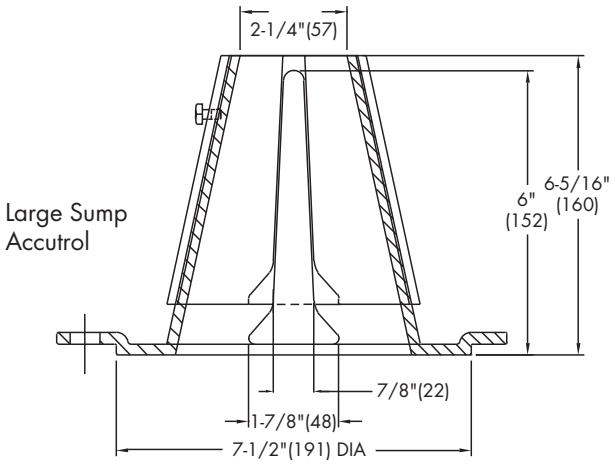
ADJUSTABLE ACCUTROL (for Large Sump Roof Drains only)

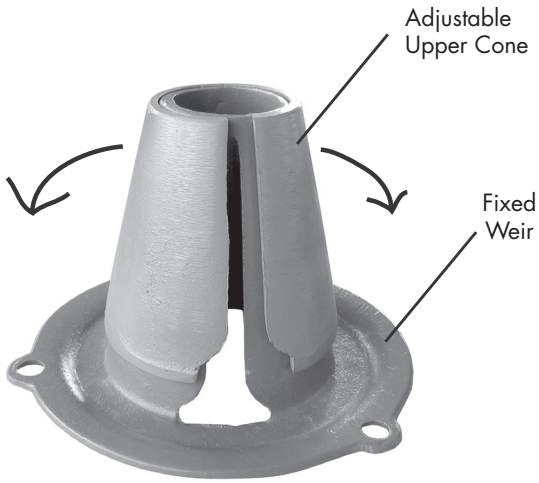
For more flexibility in controlling flow with heads deeper than 2", Watts Drainage offers the Adjustable Accutrol. The Adjustable Accutrol Weir is designed with a single parabolic opening that can be covered to restrict flow above 2" of head to less than 5 gpm per inch, up to 6" of head. To adjust the flow rate for depths over 2" of head, set the slot in the adjustable upper cone according to the flow rate required. Refer to Table 1 below.
Note: Flow rates are directly proportional to the amount of weir opening that is exposed.

EXAMPLE:

For example, if the adjustable upper cone is set to cover 1/2 of the weir opening, flow rates above 2"of head will be restricted to 2-1/2 gpm per inch of head.

Therefore, at 3"of head, the flow rate through the Accutrol Weir that has 1/2 the slot exposed will be:
[5 gpm (per inch of head) x 2 inches of head] + 2-1/2 gpm (for the third inch of head) = 12-1/2 gpm.





1/2 Weir Opening Exposed Shown Above

TABLE 1. Adjustable Accutrol Flow Rate Settings

Weir Opening Exposed	1"	2"	3"	4"	5"	6"
	Flow Rate (gallons per minute)					
Fully Exposed	5	10	15	20	25	30
3/4	5	10	13.75	17.5	21.25	25
1/2	5	10	12.5	15	17.5	20
1/4	5	10	11.25	12.5	13.75	15
Closed	5	5	5	5	5	5

Job Name _____ Contractor _____

Job Location _____ Contractor's P.O. No. _____

Engineer _____ Representative _____

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Appendix E – Correspondence

Email Correspondence from City of Ottawa on Water System Boundary Condition.

Pre-Application Consultation Meeting Minutes

Alexander Johnson

From: Charie, Kelsey <kelsey.charie@ottawa.ca>
Sent: Monday, July 29, 2024 1:22 PM
To: Aaditya Jariwala; Unrau, Derek
Cc: Luciana Traldi
Subject: RE: Gabriel, Maisonneuve, St Pierre Water Capacity
Attachments: 1136Gabriel_Boundary Condition(29july2024).docx; 1108Maisonneuve_Boundary Condition(29july2024).docx; 1132_Boundary Condition(26July2024).docx

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Aaditya,

Please see the results of the updated Boundary Condition requests. Please let me know if you have any questions.

Regards,
Kelsey

From: Aaditya Jariwala <Aaditya.Jariwala@exp.com>
Sent: July 25, 2024 2:11 PM
To: Unrau, Derek <derek.unrau@ottawa.ca>
Cc: Luciana Traldi <luciana@nemoringroup.ca>; Charie, Kelsey <kelsey.charie@ottawa.ca>
Subject: RE: Gabriel, Maisonneuve, St Pierre Water Capacity
Importance: High

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ATTENTION : Ce courriel provient d'un expéditeur externe. Ne cliquez sur aucun lien et n'ouvrez pas de pièce jointe, excepté si vous connaissez l'expéditeur.

Hi Derek,

Please see attached revised FUS calculation sheets for 1108 Maisonneuve, 1132 St. Pierre and 1136 Gabriel Street. We have decided to go with a non-combustible construction type. With this, the RFF for all three buildings will be less than 9000 L/min.

Domestic demands remain unchanged.

Can you please provide the revised boundary conditions ASAP?

Thanks,

Aaditya Jariwala, M.Eng, P.Eng.
EXP | Project Manager
t : +1.613.688.1899, 63240 | m : +1.613.816.5961 | e : aaditya.jariwala@exp.com

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From: Unrau, Derek <derek.unrau@ottawa.ca>
Sent: Thursday, July 11, 2024 12:52 PM
To: Aaditya Jariwala <Aaditya.Jariwala@exp.com>
Cc: Luciana Traldi <luciana@nemoringgroup.ca>; Charie, Kelsey <kelsey.charie@ottawa.ca>
Subject: RE: Gabriel, Maisonneuve, St Pierre Water Capacity

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Hi Aaditya,

Yes, once you have redesigned to be less than 9000L/min we would have to send the boundary request back to Asset Management.

Regards,

Derek Unrau, C.E.T.
Project Manager
Planning, Development and Building Services Department (PDBS)
Development Review - East Branch
City of Ottawa | Ville d'Ottawa
110 Laurier Avenue West Ottawa, ON | 110, avenue. Laurier Ouest. Ottawa (Ontario) K1P 1J1
613.580.2424 ext./poste 27670, Derek.Unrau@ottawa.ca

From: Aaditya Jariwala <Aaditya.Jariwala@exp.com>
Sent: July 11, 2024 11:46 AM
To: Unrau, Derek <derek.unrau@ottawa.ca>
Cc: Luciana Traldi <luciana@nemoringgroup.ca>; Charie, Kelsey <kelsey.charie@ottawa.ca>
Subject: RE: Gabriel, Maisonneuve, St Pierre Water Capacity

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Thanks Derek,

We will evaluate the options on our end to bring the RFF below 9000 L/min. Do we have to resubmit the boundary condition request or we can use the same conditions provided for each site in separate emails?

Thanks,

Aaditya Jariwala, M.Eng, P.Eng.
EXP | Project Manager
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From: Unrau, Derek <derek.unrau@ottawa.ca>
Sent: Thursday, July 11, 2024 11:29 AM
To: Aaditya Jariwala <Aaditya.Jariwala@exp.com>
Cc: Luciana Traldi <luciana@nemoringgroup.ca>; Charie, Kelsey <kelsey.charie@ottawa.ca>
Subject: Gabriel, Maisonneuve, St Pierre Water Capacity
Importance: High

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Good morning,

In addition to the boundary condition results provided for each site, the following constraints/conditions also apply.

Unfortunately, the existing 152 mm cast iron watermains built in the 1960s have limited capacity and can only support required fire flows of around 9,000 l/min.
Current watermains cannot accommodate fire flows exceeding 9,000 l/min before sending the request to Infrastructure Planning. Applicants may need to revise their boundary conditions to ensure required fire flows are below approximately 9,000 l/min by incorporating measures such as sprinklers, firewalls, increasing exposure distances to adjacent structures, etc. Alternatively, they may consider upsizing the existing watermains if fire flows greater than 9,000 l/min are necessary.

Please let me know if you have any questions.

Regards,

Derek Unrau, C.E.T.
Project Manager
Planning, Development and Building Services Department (PDBS)
Development Review - East Branch
City of Ottawa | Ville d'Ottawa
110 Laurier Avenue West Ottawa, ON | 110, avenue. Laurier Ouest. Ottawa (Ontario) K1P 1J1
613.580.2424 ext./poste 27670, Derek.Unrau@ottawa.ca

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'

Boundary Conditions
1108 Maisonneuve

Provided Information

Scenario	Demand	
	L/min	L/s
Average Daily Demand	7	0.12
Maximum Daily Demand	64	1.07
Peak Hour	97	1.62
Fire Flow Demand #1	7,002	116.7

Location

Results

Connection 1 – Mainsonneuve

Demand Scenario	Head (m)	Pressure[1] (psi)
Maximum HGL	114.2	70.2
Peak Hour	109.7	63.8
Max Day plus Fire Flow	81.5	23.8

[1] Ground Elevation = 64.8 m

Disclaimer

The boundary condition information is based on current operation of the city water distribution system. The computer model simulation is based on the best information available at the time. The operation of the water distribution system can change on a regular basis, resulting in a variation in boundary conditions. The physical properties of watermains deteriorate over time, as such must be assumed in the absence of actual field test data. The variation in physical watermain properties can therefore alter the results of the computer model simulation. Fire Flow analysis is a reflection of available flow in the watermain; there may be additional restrictions that occur between the watermain and the hydrant that the model cannot take into account.

From: Louise Lalande <llalande@lplusd.com>
Sent: Thursday, June 5, 2025 1:19 PM
To: Aaditya Jariwala
Cc: Luciana Traldi
Subject: RE: 1108 Maisonneuve, 1132 St. Pierre, 1136 Gabriel
Attachments: 24.002-A A003-OBC Matrix-Assemblies_PRR.pdf

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello,

Yes, they do – please refer to the attached drawings showing the assemblies.

Regards,

Louise C. Lalande, OAA, MRAIC, CAHP LEED AP

LaLande + Doyle Architects Inc. |Architecture, Interiors **|**
159 Holland Ave, Ottawa, ON K1Y 0Y2
C: 613-862-2906
T. (613)233-2900 ext. 224
f. (613) 233-1008
www.lplusd.com

From: Aaditya Jariwala <Aaditya.Jariwala@exp.com>
Sent: Thursday, June 5, 2025 1:14 PM
To: Louise Lalande <llalande@lplusd.com>
Cc: Luciana Traldi <luciana@nemoringgroup.ca>
Subject: RE: 1108 Maisonneuve, 1132 St. Pierre, 1136 Gabriel

Thanks Louise,

One simple questions:

Does the exterior walls for all 3 buildings have min. 1-hour fire rating?

Aaditya Jariwala, M.Eng, P.Eng.
EXP | Project Manager
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From: Louise Lalande <llalande@lplusd.com>
Sent: Thursday, June 5, 2025 1:11 PM
To: Aaditya Jariwala <Aaditya.Jariwala@exp.com>
Cc: Luciana Traldi <luciana@nemoringgroup.ca>
Subject: RE: 1108 Maisonneuve, 1132 St. Pierre, 1136 Gabriel

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello,

The building is wood construction, combustible.

The building's perimeter walls are to be constructed with a fire-rating; therefore, the cladding is specified to be non-combustible. We have three types of cladding: brick, aluminum and cement.

My Code review established that the building is classified as this:

1.2.2 ***OBCC 3.2.2.45. Group C, up to 4 Storeys, Sprinklered***

(1) A building classified as Group C is permitted to conform to Sentence (2) provided,
(a) except as permitted by Sentence 3.2.2.7.(1), the building is sprinklered,
(b) it is not more than 4 storeys in building height, and
(c) it has a building area not more than 1 800 m2 if 4 storeys in building height.

(2) The building referred to in Sentence (1) is ***permitted to be of combustible construction or noncombustible construction used singly or in combination****, and,*
(a) except as permitted by Sentences (3) and (4), floor assemblies shall be fire separations with a fire-resistance rating not less than 1 h,
(b) loadbearing walls, columns and arches shall have a fire-resistance rating not less than that required for the supported assembly.

1.2.3 3.3.1.1. Separation of Suites

(1) Except as permitted by Sentences (2) and (3), each suite in other than business and personal services occupancies shall be separated from adjoining suites by a fire separation having a fire-resistance rating not less than 1 h.

Regards,

Louise C. Lalande, OAA, MRAIC, CAHP LEED AP

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f. (613) 233-1008
www.lplusd.com

From: Aaditya Jariwala <Aaditya.Jariwala@exp.com>
Sent: Thursday, June 5, 2025 11:44 AM
To: Louise Lalande <llalande@lplusd.com>
Cc: Luciana Traldi <luciana@nemoringgroup.ca>
Subject: 1108 Maisonneuve, 1132 St. Pierre, 1136 Gabriel
Importance: High

Good Morning Louise,

Based on the final building permit set for the above noted three projects, can you please provide answer to the following questions for fire flow calculations:

1. What is the building construction type?
   Wood frame Construction
   Ordinary Construction
   Non-combustible Construction
   Fire Resistive Construction

   Below is a brief explanation for each of these types. If the building consists of more than one construction type then please estimate the % for each type.

Wood Frame Construction (Type V)
A building is considered to be of Wood Frame construction (Type V) when structural elements, walls, arches, floors, and roofs are constructed entirely or partially of wood or other material.

Note: Includes buildings with exterior wall assemblies that are constructed with any materials that do not have a fire resistance rating that meets the acceptance criteria of CAN/ULC-S114. May include exterior surface brick, stone, or other masonry materials where they do not meet the acceptance criteria.

Ordinary Construction (Type III also known as joisted masonry)
A building is considered to be of Ordinary construction (Type III) when exterior walls are of masonry construction (or other approved material) with a minimum 1-hour fire resistance rating, but where other elements such as interior walls, arches, floors and/or roof do not have a minimum 1 hour fire resistance rating.

Noncombustible Construction (Type II)
A building is considered to be of Noncombustible construction (Type II) when all structural elements, walls, arches, floors, and roofs are constructed with a minimum 1-hour fire resistance rating and are constructed with noncombustible materials.

Fire-Resistive Construction (Type I)
A building is considered to be of Fire-resistive construction (Type I) when all structural elements, walls, arches, floors, and roofs are constructed with a minimum 2-hour fire resistance rating, and all materials used in the construction of the structural elements, walls, arches, floors, and roofs are constructed with noncombustible materials.

Items of Note Regarding Construction Coefficients

i. Unprotected noncombustible construction (example unprotected steel) should be considered within ordinary construction or noncombustible construction based on the minimum fire resistance rating of the structural elements, exterior walls, and interior bearing walls;
   - If minimum fire resistance rating of exterior walls is 1 hr, apply Ordinary Construction Coefficient (1.0)
   - If minimum fire resistance rating of all structural elements, walls, arches, floors, and roofs is 1 hr, apply Noncombustible Construction Coefficient (0.8).

ii. If a building cannot be defined within a single Construction Coefficient, the Construction Coefficient is determined by the predominate Construction Coefficient that makes up more than 66% or over of the Total Floor Area.

If you could please provide the answer before EOD today.

Thanks,

Aaditya Jariwala, M.Eng, P.Eng.
EXP | Project Manager
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CANADA

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File No.: PC2024-0214

June 14, 2024

Peter Hume and Alison Clarke
HPUrban Inc.
Via email: peter.hume@hpurban.ca

Subject: Pre-Consultation: Meeting Feedback
Proposed Site Plan Control Application – 1108 Maisonneuve St

Please find below information regarding next steps as well as consolidated comments from the above-noted pre-consultation meeting held on June 10, 2024.

Pre-Consultation Preliminary Assessment

1 ☐	**2** ☐	**3** ☐	**4** ☒	**5** ☐

One (1) indicates that considerable major revisions are required while five (5) suggests that the proposal appears to meet the City's key land use policies and guidelines. This assessment is purely advisory and does not consider technical aspects of the proposal or in any way guarantee application approval.

Next Steps

1. A review of the proposal and materials submitted for the above-noted pre-consultation has been undertaken. As of June 6, 2024, planning pre-consultations are no longer mandatory as per the Province of Ontario's Bill 185. Considering the applicant has three sites under consideration in this neighbourhood, a Phase 3 pre-consultation is still recommended by staff.

   If the applicant chooses to proceed with further pre-consultation, please complete a Phase 3 Pre-consultation Application Form and submit it together with the necessary studies and/or plans to planningcirculations@ottawa.ca.

2. In your subsequent pre-consultation submission, please ensure that all comments or issues detailed herein are addressed. A detailed cover letter stating how each issue has been addressed must be included with the submission materials. Please coordinate the numbering of your responses within the cover letter with the comment number(s) herein.

3. Please note, if your development proposal changes significantly in scope, design, or density before the Phase 3 pre-consultation, it is recommended that you complete the Phase 2 pre-consultation process.

Submission Requirements and Fees

1. If the applicant would like to proceed to a formal Site Plan Control application submission, fees for a Complex Site Plan will be required in addition to the required application materials.
    a. Additional information regarding fees related to planning applications can be found here.
    b. The applicant should be aware that additional planning applications and fees may apply if the proposal requires any deviation from the existing Official Plan and Zoning By-law.
2. The attached **Study and Plan Identification List** outlines the information and material that has been identified as either required (R) or advised (A) as part of a future complete application submission.
    a. The required plans and studies must meet the City's Terms of Reference (ToR) and/or Guidelines, as available on Ottawa.ca. These ToR and Guidelines outline the specific requirements that must be met for each plan or study to be deemed adequate.
3. All of the above comments or issues should be addressed to ensure the effectiveness of the application submission review.

Consultation with Technical Agencies

1. You are encouraged to consult with technical agencies early in the development process and throughout the development of your project concept. A list of technical agencies and their contact information is enclosed.

Planning

Comments:

1. The site is within the Suburban Transect of the City of Ottawa's Official Plan (2022) and is designated Neighbourhood with an Evolving Neighbourhood Overlay. Further, the site is designated Station Periphery in the Orléans Corridor Secondary Plan (OCSP) (attached). The site is zoned R5A[2179]H(40).

2. A Planning Rationale is required that demonstrates how the new development will be consistent with the vision, goals, and objectives of both the Official Plan and Secondary Plan. This report is triggered by Section 4.1.1 of the Secondary Plan.

3. Planning staff appreciate the developer's intent to make 30% of the residential units affordable. The City of Ottawa's 10-Year Housing and Homelessness Plan aims to create 5,700 to 8,500 affordable housing options throughout Ottawa through partnerships with not-for-profit and private housing providers. There may be opportunities for developing affordable units for low- and medium-income households that the developer should consider exploring.

4. The applicant should consider the provision of larger household units (3+ bedrooms).

5. The current location of the garbage storage area outside in the rear is undesirable due to being visible from the street (OCSP section 4.11.9). Staff recommend that the waste management be brought within the ground floor of the building, or otherwise covered and relocated to a different location within the rear yard.

6. The current concept plan has some concerns regarding the parking lot shown:

    a. The only required parking space for the number of units shown is 1 visitor parking space. While the concept plan only shows one space, there appears to be an error on the Parking Statistics notes on the plan, which identifies six total parking spaces. Please correct.

    b. While the parking lot's location at the rear of the property is in line with the Secondary Plan policy (section 4.11.3), there is a large amount of space lost on the lot to asphalt for one parking space. The applicant should consider the possibility of the parking space and walkway being located in the interior side yard beside the building. This change would enable more soft landscaping, communal amenity area, and larger canopy trees to be located in the rear yard.

7. The Secondary Plan recommends a minimum target of 1 bicycle parking space per residential unit (section 4.12). There should be an attempt to meet the Secondary Plan recommendation for 24 spaces. Currently the concept plan only shows 10 bicycle parking spaces: the Zoning By-law requires 12 spaces (0.5 per dwelling unit).

    a. Long-term bike parking facilities should be provided in a secure interior parking area within the building with convenient access to the street.

    b. Short term bike parking facilities should be provided in convenient, well-lit location on the lot. It would be ideal if the location in the rear yard was sheltered, and the applicant could also consider spaces in the front yard for visitors.

8. Please demonstrate how the proposal will meet the amenity area requirements required in Section 137 of the Zoning By-law. Based on 24 units, 144 m^2 of amenity area is required in total for the site. Fifty percent of this total (72 m^2) must be provided as communal amenity space.

9. Planning staff appreciate the accessible units.

10. The applicant should be aware of the City's Transit-Oriented Development Guidelines, Bird-Safe Design Guidelines and Urban Design Guidelines for Low-rise Infill Housing.

Please contact Jerrica Gilbert, Planner II, for follow-up questions related to planning policy and the application process.

Urban Design

Comments:

11. An Urban Design Brief is required. Please see attached Terms of Reference to guide the preparation of the submission.

    a. The Urban Design Brief should be structured by generally following the headings highlighted under Section 3 – Contents of these Terms of Reference.

12. Please follow the Terms of Reference to prepare these drawings and studies. These include Urban Design Review Panel drawings:

    a. Landscape Plan

    b. Elevations

13. The following elements of the preliminary design are appreciated:

    a. Main entrance at grade,

    b. Proportional distribution of material/colour.

14. The following elements of the preliminary design are of concern:

    a. Unprotected bicycle parking,

    b. Large area of asphalt for only one vehicle,

    c. Unprotected garbage bins visible from the street.

15. Providing parking is recommended at a ratio of 1:1 (parking to unit) for protected bike parking interior to the building or in the rear yard.

16. Please consider the recommendation of relocating the protected garbage enclosure to ensure it is not visible from the public right-of-way.

17. Please consider the recommendation to reduce the amount of asphalt in the rear yard to allow for more soft landscaping and opportunities for trees.

Please contact Christopher Moise, Planner II, for follow-up questions, related to Urban Design.

Engineering

Comments:

18. Watermain looping is required for developments above 50 m^3/day (0.58 l/s) to avoid creating a vulnerable service area.
19. District Metering Area (DMA) Chamber(s) are required for private developments serviced by a connection 150 mm or larger or when there are two or more private connections to the public watermain.
20. The following note regarding the water boundary condition request should be completed as soon as possible. This area has low water supply and may not be able to facilitate the proposed development.
21. Please be advised that a water boundary condition request must be submitted to the City Project Manager, Development Review by the civil design engineer or consultant prior to submission and include the following information:
    a. The location of the service and the expected water demand of the proposed development shown on a plan, figure, or map;
    b. Type of development;
    c. Average daily demand: ___ l/s;
    d. Maximum daily demand: ___l/s;
    e. Maximum hourly daily demand: ___ l/s;
    f. Required fire flow: ___ l/s;
    g. Supporting calculations for all demands listed above
22. Demonstrate adequate hydrant coverage for fire protection. Please review Technical Bulletin ISTB-2018-02, Appendix I Table 1 – maximum flow to be considered from a given hydrant.
23. Show proposed emergency route if required (to be satisfactory to Fire Services).
24. A monitoring maintenance hole shall be required just inside the property line for all non-residential and multi residential buildings connections from a private sewer to a public sewer. See the sewer use by-law for details.
25. Provide pre and post CCTV of any City sewers if there are new connections required to the City sewers as per City Standard CCTV spec S.P. F-4090.
26. A maintenance hole is required to be installed over the public sewer where private sewer connection to the public sewer exceeds 50% of the public sewer

diameter. If a maintenance hole is proposed to be installed over existing City infrastructure, clearly indicate on the design drawings the applicable Standard City Drawing.

27. Sewer connections to be made above the springline of the sewermain as per:
    a. Std Dwg S11.1 for flexible main sewers – connections made using approved tee or wye fittings.
    b. Std Dwg S11 (For rigid main sewers) – lateral must be less that 50% the diameter of the sewermain,
    c. Std Dwg S11.2 (for rigid main sewers using bell end insert method) – for larger diameter laterals where manufactured inserts are not available; lateral must be less that 50% the diameter of the sewermain,
    d. Connections to manholes permitted when the connection is to rigid main sewers where the lateral exceeds 50% the diameter of the sewermain. – Connect obvert to obvert with the outlet pipe unless pipes are a similar size.
    e. No submerged outlet connections
28. Provide an analysis to demonstrate that there is adequate residual capacity in the receiving and downstream wastewater system to accommodate the proposed development.
29. The Stormwater Management Criteria, for the subject site, is to be based on the following:
    a. Quantity control criteria:
        i. All post development flows shall be directed towards the street. Absolutely no drainage to neighbouring properties will be accepted.
        ii. Post development storm events shall be controlled to their respective pre-development storm event release rates.
        iii. The pre-development runoff coefficient shall be the lesser of:
            1. the existing coefficient
            2. a maximum equivalent ‘C’ of 0.5
        iv. A calculated time of concentration (cannot be less than 10 minutes)
        v. Application of the IDF information derived from the Meteorological Services of Canada rainfall data, taken from the MacDonald Cartier Airport, collected 1966 to 1997.

vi. Since the site is small, an alternative stormwater management option will be acceptable: overcontrol the roof area to a 2-year pre-development level with max C=0.5 while keeping the remaining site uncontrolled. Flows must be directed to the street.

b. Quality control criteria:

i. Characterize the water quality to be protected and Stormwater Contaminants (e.g., suspended solids, nutrients, bacteria, water temperature) for potential impact on the Natural Environment, and control as necessary.

ii. Provide Enhanced level of protection (80%) for suspended solids removal.

iii. If an Oil/Grit Separator will be required the OGS unit sizing shall be as per ISO 14034 Environmental Technology Verification

30. Permissible ponding of 350mm for 100-year. No spilling to adjacent sites. At 100-year ponding elevation, you must spill to the ROW. 100-year Spill elevation must be 300mm lower than any building opening or ramp.

31. Consider Pedestrian Accessibilities at max 5%.

32. Reduce the reliance on retaining walls as much as possible by incorporating grading transitions between adjacent properties.

33. Sensitive Marine Clay (SMC) is widely found across Ottawa- geotechnical reports should include Atterberg Limits, consolidation testing, sensitivity values, and vane shear test. Refer to City of Ottawa Geotechnical and Slope Stability Guidelines.

34. No road moratorium that would impact the application has been identified.

35. Any easement required should be shown on all plans.

36. For any proposed exterior light fixtures, please provide certification from a licensed professional engineer confirming lighting has been designed only using fixtures that meet the criteria for full cut-off classification as recognized by the Illuminating Engineering Society of North America and result in minimal light spillage onto adjacent properties (maximum allowable spillage is 0.5 fc). Additionally, include in the submission the location of the fixtures, fixture type, make, model, part number and mounting height.

37. Minimum Drawing and File Requirements:

a. Plans are to be submitted on standard A1 size (594mm x 841mm) sheets, utilizing an appropriate Metric scale (1:200, 1:250, 1:300, 1:400, or 1:500).

b. With all submitted hard copies provide individual PDF of the DWGs and for reports please provide one PDF file of the reports. All PDF documents are to be unlocked and flattened.

38. Record drawings and utility plans are also available for purchase from the City (Contact the City's Information Centre by email at InformationCentre@ottawa.ca or by phone at (613) 580-2424 x.44455.

Please contact Kelsey Charie, Project Manager, for follow-up questions.

Noise

Comments:

39. Noise study not required.

Please contact Rochelle Fortier, Transportation Project Manager, for follow-up questions.

Transportation

Comments:

40. A TIA is not required.

41. Ensure that the development proposal complies with the Right-of-Way (ROW) protection requirements as per Schedule C16 of the Official Plan.

    a. Right-Of-Way (ROW) must be unincumbered and conveyed at no cost to the City. Note that conveyance of the ROW will be required prior to registration of the SP agreement. Additional information on the conveyance process can be provided upon request.

    b. Any requests for exceptions to ROW protection requirements must be discussed with Transportation Planning and concurrence provided by Transportation Planning management.

42. Please note that the Transportation Master Plan includes:

    a. Phase 2 LRT east extension (under construction)

    b. Feasibility study of cycling facilities on St. Joseph Boulevard between Forest Valley Drive and Tenth Line Road, as part of the Orléans Corridor Secondary Plan Study.

43. As the site proposed is residential, AODA legislation applies for all areas accessible to the public (i.e. outdoor pathways, parking, etc.).Please consider using the City's Accessibility Design Standards, which provide a summary of AODA requirements.

44. Covered bicycle parking is recommended.

45. Please see the following considerations on the site plan:

    a. Ensure site accesses meet the City's Private Approach Bylaw and all driveways/aisles meet the requirements outlined in Section 107 of the Zoning By-law.

    b. Show all details of the roads abutting the site; include such items as pavement markings, accesses and/or sidewalks.

    c. Turning movement diagrams required for all accesses showing the largest vehicle to access/egress the site.

    d. Turning movement diagrams required for internal movements (loading areas, garbage).
    e. Show dimensions for site elements (i.e. lane/aisle widths, access width and throat length, parking stalls, sidewalks, pedestrian pathways, etc.)

    f. Parking stalls at the end of dead-end parking aisles require adequate turning around space.

    g. Grey out any area that will not be impacted by this application.

Please contact Rochelle Fortier, Transportation Project Manager, for follow-up questions.

Environment

Comments:

46. There are no natural heritage features, surface water features, or species at risk habitat on or near the site that would trigger the need for an Environmental Impact Statement (EIS). An EIS is not required for this application.

47. A Tree Conservation Report must be submitted with this application. The primary concern for this report is the possibility of this development having a negative impact on the trees on neighbouring properties. As such, an analysis of the Critical Root Zone (CRZ) of the neighbouring trees must be included. Any development must be kept out of this CRZ unless permission from the neighbouring landowners is given. The TCR may be incorporated into the Landscape Plan, so long as the necessary information is provided.

48. At four storeys, this development is not required to adhere to the Bird Safe Design Guidelines. However, it is still recommended that the applicant consider adapting some of the mitigation features of the Guidelines where applicable.

49. The City has strong provisions for tree planting to help meet the Urban Forest Canopy goals as well as to reduce the impacts of climate change and the urban heat island effect. Please consider adding additional tree plantings where possible and note that the City prefers that tree plantings be of native and non-invasive species.

Please contact Mark Elliott, Environmental Planner, for follow-up questions.

Forestry

Comments:

50. A Landscape Plan (LP) and Tree Conservation Report (TCR) are submission requirements for a Site Plan Control application. The TCR can only be waived if there are no trees 10 cm in diameter or greater on the subject site, no City trees of any size in the right of way, and no adjacently owned trees with their critical root zones extending into the development site. Proof can be provided in a combination of photos and plans confirming these conditions do not exist.

51. The secondary plan notes most of the area is underlain with Sensitive Marine Clay (SMC) soils. Complete geotechnical investigations as early as possible to ensure adequate space and soil volume is provided for tree planting, as required by the Official Plan. Prepare the LP in conjunction with the Geotechnical Report.

52. Reduce hardscaping/paving in the rear yard. Please consider the suggestion to relocate the vehicle parking space to the side yard and bicycle parking to ensure there is no conflict with suitable areas for tree planting.

53. If the site may be designed without the drainage ditches, it will offer more opportunity for tree planting in the front yards.

54. Planning Forestry would not support a change to the zoning for the site that impacts tree planting opportunities.

55. The following Tree Conservation Report (TCR) requirements have been adapted from the Schedule E of the Urban Tree Protection Guidelines:

    a. A Tree Conservation Report (TCR) must be supplied for review along with the suite of other plans/reports required by the City.

    b. Any tree 10 cm in diameter or greater and City-owned trees of any diameter requires a tree permit issued under the Tree Protection Bylaw (Bylaw 2020 – 340); the permit will be based on an approved TCR and made available at or near plan approval.

c. The TCR must contain 2 separate plans/maps:

   i. Plan/Map 1 – illustrate existing conditions with tree cover information.

   ii. Plan/Map 2 – illustrate proposed development with tree cover information.

d. The TCR must list all trees on site, as well as off-site trees if the CRZ (critical root zone) extends into the developed area, by species, diameter, and health condition. Please note that averages can be used if there are forested areas.

e. Please identify trees by ownership – private onsite, private on adjoining site, city owned and co-owned trees on a property line.

f. If trees are to be removed, the TCR must clearly show where they are, and document the reason they cannot be retained.

g. The removal of trees on a property line will require the permission of both property owners.

h. All retained trees must be shown, and all retained trees within the area impacted by the development process must be protected as per City guidelines available at Tree Protection Specification or by searching Ottawa.ca.

i. The city encourages the retention of healthy trees. If possible, please seek opportunities for retention of trees that will contribute to the design/function of the site.

j. Removal of a City tree is not permitted unless justified. If justified, monetary compensation for the value of the tree must be paid before a tree removal permit is issued.

56. Landscape Plan Terms of Reference must be adhered to for all tree planting.

57. Additional Elements for Tree Planting in the Right of Way:

a. Please ensure any retained trees are shown on the LP.

b. Sensitive Marine Clay - Please follow the City's 2017 Tree Planting in Sensitive Marine Clay guidelines.

c. Soil Volume - Please demonstrate as per the Landscape Plan Terms of Reference that the available soil volumes for new plantings will meet or exceed the minimum soil volumes requested.

d. The City requests that consideration be given to planting native species wherever there is a high probability of survival to maturity.

e. Efforts shall be made to provide as much future canopy cover as possible at a site level, through tree planting and tree retention. The Landscape Plan shall show/document that the proposed tree planting and retention will contribute to the City's overall canopy cover over time. Please provide a projection of the future canopy cover for the site to 40 years.

58. Please see the following minimum setback requirements:

a. Maintain 1.5m from sidewalk or MUP/cycle track or water service laterals.

b. Maintain 2.5m from curb

c. Coniferous species require a minimum 4.5m setback from curb, sidewalk, or MUP/cycle track/pathway.

d. Maintain 7.5m between large growing trees, and 4m between small growing trees. Park or open space planting should consider 10m spacing, except where otherwise approved in naturalization / afforestation areas.

e. Adhere to Ottawa Hydro's planting guidelines (species and setbacks) when planting around overhead primary conductors.

59. Please see the following tree specifications:

a. Minimum stock size: 50mm tree caliper for deciduous, 200cm height for coniferous.

b. Maximize the use of large deciduous species wherever possible to maximize future canopy coverage.

c. Tree planting on city property shall be in accordance with the City of Ottawa's Tree Planting Specification; and if possible, include watering and warranty as described in the specification.

d. No root barriers, dead-man anchor systems, or planters are permitted.

e. No tree stakes unless necessary (and only 1 on the prevailing winds side of the tree).

60. Please see the following hard surface planting specifications:

a. If there are hard surface plantings, a planting detail must be provided.

b. Curb style planters are highly recommended.

c. No grates are to be used and if guards are required, City of Ottawa standard (which can be provided) shall be used.

d. Trees are to be planted at grade.

Please contact Hayley Murray, Planning Forester, for follow-up questions related to trees.

Parkland

Comments:

61. Cash-in-lieu of Parkland (CILP) will apply to this application, at the rate specified in the Parkland Dedication By-law No.2022-280 (as amended):

    a. This proposal is for a residential development of greater than 18 units per net hectare.

    b. Where the property is less than or equal to five hectares, the rate for residential uses > 18 units/net ha = the land value of the area determined by the following calculation:

        i. The lesser of:

            1. 1 hectare per 1,000 net residential units; or

            2. 10% of the gross land area.

    c. Based on the land area identified for this site, preliminary parkland area calculation is 86.28 m^2.

    d. Cash in lieu of parkland amount will then be calculated using the appraised value of the land per square metre.

62. CILP payment will be due prior to the issuance of a building permit.

63. Please note that the parkland dedication calculation provided is preliminary and is subject to change upon receipt of the development application and supporting documentation. The parkland dedication requirement will also be re-evaluated should any of the details of the proposal be modified.

Please contact Marika Atfield, Parks Planner, for follow-up questions related to parkland.

Community issues

Comments:

64. The Ottawa Neighbourhood Equity Index identifies the Convent Glen-Place d'Orleans community as having a possible equity concern. Development proponents in this area should consider how their proposal may contribute to improving inequities for both existing and future residents, especially in the

domain of social and human development, health, community belonging and the physical environment.

Other

65. The High Performance Development Standard (HPDS) is a collection of voluntary and required standards that raise the performance of new building projects to achieve sustainable and resilient design. The HPDS was passed by Council on April 13, 2022.

    a. At this time, the HPDS is not in effect and Council has referred the 2023 HPDS Update Report back to staff with direction to bring forward an updated report to Committee with recommendations for revised phasing timelines, resource requirements and associated amendments to the Site Plan Control By-law.

    b. Please refer to the HPDS information attached and ottawa.ca/HPDS for more information.

Should there be any questions, please do not hesitate to contact myself or the contact identified for the above areas / disciplines.

Yours Truly,
Jerrica Gilbert, Planner II

Encl. Urban Design Brief – Terms of Reference
Orléans Corridor Secondary Pla

c.c. Kelley Livingstone, Senior PL (Development Review)
Zoha Rashid, PL (Development Review)
Rochelle Fortier, PM (Transportation)
Kelsey Charie, IPM (Infrastructure Approvals)
Derek Unrau, Senior IPM (Infrastructure Approvals)
Christopher Moise, PL (Urban Design)
Marika Atfield, PL (Parks and Recreation)
Hayley Murray, PL (Forestry)
Mark Elliott, PL (Environmental)

Peter Hume (HP Urban Inc.)
Alison Stirling (HP Urban Inc.)
Sael Nemorin (Nemorin Group Limited)
Leah Arsenault (Nemorin Group Limited)
Luciana Traldi (Nemorin Group Limited)

SUPPLEMENTARY DEVELOPMENT INFORMATION

The following details have been compiled to provide additional information on matters for consideration throughout the application approval and development process. Please note, this document is updated from time to time and should be reviewed for each project proposed to be undertaken.

General

- Refer to Planning application submission information and materials and fees for further information on preparing for application submission. Be aware that other fees and permits may be required, outside of the development review process.
- Additional information is available related to building permits, development charges, and the Accessibility Design Standards.
- You may obtain background drawings by contacting geoinformation@ottawa.ca.
- Plans are to be standard A1 size (594 mm x 841 mm) or Arch D size (609.6 mm x 914.4 mm) sheets, dimensioned in metric and utilizing an appropriate Metric scale (1:200, 1:250, 1:300, 1:400 or 1:500).
- All PDF submitted documents are to be unlocked, flattened and not saved as a portfolio file.
- Where private roads are proposed:
    - Submit a Private Roadway Street Naming application to Building Code Services Branch for any internal private road network.
    - Applications are available at all Client Service Centres and the private roadway approval process takes three months.

Servicing and Site Works

Servicing and site works shall be in accordance with the following documents:

- Ottawa Sewer Design Guidelines (October 2012)
- Ottawa Design Guidelines – Water Distribution (2010)
- Geotechnical Investigation and Reporting Guidelines for Development Applications in the City of Ottawa (2007)
- City of Ottawa Slope Stability Guidelines for Development Applications (revised 2012)
- City of Ottawa Environmental Noise Control Guidelines (January, 2016)
- City of Ottawa Park and Pathway Development Manual (2012)
- City of Ottawa Accessibility Design Standards (2012)
- Ottawa Standard Tender Documents (latest version)

- Ontario Provincial Standards for Roads & Public Works (2013)

Exterior Site Lighting

Where proposed, requires certification by an acceptable professional engineer, licensed in the Province of Ontario, which states that the exterior site lighting has been designed to meet the following criteria:

- It uses only fixtures that meet the criteria for Full Cut-Off (Sharp cut-off) classification, as recognized by the Illuminating Engineering Society of North America (IESNA or IES), and
- It results in minimal light spillage onto adjacent properties. As a guideline, 0.5 foot-candle is normally the maximum allowable spillage.

The location of the fixtures, fixture type (make, model, part number and the mounting height) must be shown on one of the approved plans.

City Surveyor Direction

- The determination of property boundaries, minimum setbacks and other regulatory constraints are a critical component of development. An Ontario Land Surveyor (O.L.S.) needs to be consulted at the outset of a project to ensure properties are properly defined and can be used as the geospatial framework for the development.
- Topographic details may also be required for a project and should be either carried out by the O.L.S. that has provided the Legal Survey or done in consultation with the O.L.S. to ensure that the project is integrated to the appropriate control network.

  Questions regarding the above requirements can be directed to the City's Surveyor, Andre Roy, at Andre.Roy1@ottawa.ca.

Waste Management

- New multi-unit residential development, defined as containing six (6) or more units, intending to receive City waste collection services will be required, as of June 1, 2022, to participate in the City's Green Bin program in accordance with Council's approval of the multi-residential waste diversion strategy. The development must include adequate facilities for the proper storage of allocated garbage, recycling, and green bin containers and such facilities built in accordance with the approved site design. Questions regarding this change and requirements can be directed to Andre.Laplante@ottawa.ca.

- For sites containing:
  - One or more buildings with a total GFA greater than 2000 square metres;

- Retail shopping complexes with a total GFA greater than 10,000 square metres;
- Sites containing office buildings with total GFA greater than 10,000 square metres;
- Hotels and motels with more than 75 units;
- Hospitals (human);
- Educational institutions with more than 350 students; or
- Manufacturing establishments working more than 16,000 person-hours in a month

A Waste Reduction Workplan Summary is required for the construction project as required by O.Reg. 102/94, being "Waste Audits and Waste Reduction Work Plans" made under the Environmental Protection Act, RSO 1990, c E.19, as amended.

Fire Routes

- Fire routes are required to be designated by By-law for Fire Services to establish them as a legal fire route. Where a development proposes to establish a fire route, an Application for Fire Route Designation is to be made. Questions regarding the designation of fire routes and required process can be directed to fireroutes@ottawa.ca.

Dewatering Activities

- Project contractors and/or your engineers are required to contact the Sewer Use Program to arrange for the proper agreements or approvals to allow for the discharge of water from construction dewatering activities to the City's sanitary or storm sewer system. Please contact the Sewer Use Duty Officer at 613-580-2424 ext. 23326 and/or suppue@ottawa.ca.

Backflow Prevention Devices for Premise Isolation

- Buildings or facilities installing a backflow preventer for premise isolation of the drinking water system must register with the City's Backflow Prevention Program where a moderate or severe hazard may be caused in accordance with CSA B64.10 "Selection and Installation of Backflow Preventers". Please contact the Backflow Prevention Program at 613-580-2424 ext. 22299 or backflow@ottawa.ca to submit a Premise Isolation Survey.

Energy Considerations

- Are you considering harvesting thermal energy from the wastewater infrastructure or harvesting geothermal energy?

- Additional information can be found on the City website or by contacting Melissa Jort-Conway.

Flood Plain Mapping and Climate Change

- An interactive map, for informational purposes only, showing the results of on-going flood plain mapping work completed by the Conservation Authorities in partnership with the City is now available. This mapping may be used to identify known riverine flood hazards for a property or area. The map and additional related information can be found on Ottawa.ca.

Blasting

- Where blasting may take place:
  - Blasting activities will be required to conform to the City's Standard S.P. No. F-1201 entitled Use of Explosives, as amended.
  - To avoid future delays in process, including the Municipal Consent process for shoring, ensure communication with necessary entities, including utilities, is undertaken early.
- Blasting and pile driving activities in the vicinity of Enbridge Gas Distribution and Storage (GDS) facilities require prior approval by GDS. The Blasting and Pile Driving Form, referenced in Enbridge's Third Party Requirements in the Vicinity of Natural Gas Facilities Standard, must be provided to mark-ups@enbridge.com by the Owner of the proposed work for all blasting and pile driving operations. In addition, a licensed blasting consultant's stamped validation report must be submitted to GDS for review if blasting is to occur within thirty (30) metres of GDS facilities. The request must be submitted a minimum of four weeks prior to the beginning of work to allow sufficient time for review.

Archaeological

- Archaeological Resources
  - Should potential archaeological resources be encountered during excavation activities, all Work in the area must stop immediately and the Owner shall contact a provincially licensed archaeologist.
  - If during the process of development deeply buried/undetected archaeological remains are uncovered, the Owner shall immediately notify the Archaeology Section of the Ontario Ministry of Tourism, Culture and Sport.
  - In the event that human remains are encountered during construction, the Owner shall immediately contact the police, the Ministry of Tourism, Culture and Sport and the Registrar of Cemeteries, Cemeteries Regulation Unit, Ministry of Consumer and Business Services, Consumer Protection Branch.

Trees

- The City's Tree Protection Bylaw, being By-Law No. 2020-340, as amended, requires that any trees to be removed shall be removed in accordance with an approved Tree Permit and Tree Conservation Report and that all retained trees will be protected in accordance with an approved Tree Conservation Report.

Limiting Distance and Parks

- A Limiting Distance Agreement may be required by Building Code Services before building permit(s) can be issued with respect to the proximity of the building to a park block. The City will consider entering into a Limiting Distance Agreement with the Owner with such Agreement to be confirmed through the City's Corporate Real Estate Office. A Limiting Distance Agreement is at the expense of the Owner.

Development Constructability

How a development is constructed, its constructability, is being looked at earlier in the development review process to raise awareness of potential impacts to the City's right of way and facilitate earlier issue resolution with stakeholders. Where a construction management plan is required as part of the site plan or subdivision application approval, conditions will be included that set out the specific parameters to be addressed for the specific project. However, please note the following construction and traffic management requirements and considerations in the development of your project.

- **Open Lane (includes all vehicular lanes, transit lanes and cycling lanes) Requirements**
    - Unless specified in the site-specific conditions to be provided by City of Ottawa Traffic Management at the time of approval, the following requirements must be adhered to and accommodated as part of any proposed encroachments and construction management plan. The standard requirements outlined in this section shall further apply to cycling facilities and Transit.
        - All lanes are to function uninterrupted at all times.
        - No interruption or blockage of traffic is permitted.
        - No loading or unloading from an open lane is permitted.
        - All vehicular travel lanes are to be a minimum of 3.5 metres in width.
        - All cycling lanes are to be a minimum of 1.5 metres.
- **Pedestrian Requirements**
    - Unless specified in the site-specific conditions provided by City of Ottawa Traffic Management at the time of approval, the contractor is required to maintain a minimum width of 1.5 metres for a pedestrian facility on one side

of the corridor at all times; even in instances where a pedestrian facility was not present prior to construction.

- The facility shall include a free and unobstructed hard surface acceptable for the use of all pedestrians including those with accessibility challenges and shall maintain access to all buildings and street crossings.
- The facility must always be maintained in a clean condition and in a good state of repair to the satisfaction of the City.
- Any change of level which is over 13 millimetres in height is to be provided with a smooth non-tripping transition.
- Any temporary barriers or fencing shall include a cane detectable boundary protection with edge or barrier at least 75 millimetres high above the ground surface.
- If works overhead are required, a 2.1 metre minimum clear headroom must be provided.
- If overhead protection is required above the pedestrian facility, it is to be offset a minimum of 600 millimetres from any travel lane.

- **Transit Requirements**
  - Travel lanes accommodating OC Transpo must be a minimum of 3.5 metres in width and have a minimum 4.5 metre vertical clearance at all times.
  - Should access to a bus stop be impacted, the developer will be required to email TOPConstructionandDetours@ottawa.ca a minimum of 20 working days prior to work commencing to coordinate any site-specific conditions as part of the work. This includes temporary relocation of transit stops, removal of bus shelters or stops and transit detour routes.
  - The contractor may be required to relocate and provide a suitable alternative to OC Transpo's bus stop to the satisfaction of OC Transpo
  - The Contractor shall provide OC Transpo with a minimum of ten (10) working days' notice to coordinate temporary relocation of bus stops. When a bus stop and/or shelter must be temporarily relocated, the contractor may be required to provide stop infrastructure (i.e. bench, bus and/or shelter pads), to the satisfaction of OC Transpo.
  - All temporary stop locations including infrastructure are to be fully accessible in accordance with City of Ottawa Accessibility Design Standards and to the satisfaction of the OC Transpo.
  - Temporary bus stops are to be constructed and ready for use prior to the start of any works that would impact the regular bus stop location(s).
- **Public Consultation**
  - May include, but not be limited to, proponent lead public meeting(s), letter notification(s) and information dissemination via print, electronic means or

social media, to impacted properties above and beyond the notification requirements specified in the Road Activity By-law.

- **General Considerations for all Applications**
  - A comprehensive construction management plan should include and consider the following:
    - The proposed stages of construction and the anticipated durations of each stage and any impact to existing travel lanes, pedestrian facilities, cycling facilities and/or transit facilities. Any proposed encroachment should be identified and dimensioned on the site plan for review of feasibility.
    - The proposed constructability methods being used as part of the proposed development (ie: fly forming, Peri forming etc.) and any additional traffic impacts/interruptions anticipated with proposed methods. If a crane is being placed on site, the location should be identified, and show the overhead impacts of the crane.
    - Consideration that any tie-backs and/or shoring within the City of Ottawa Right of Way are subject to Municipal Consent in advance of commencement of the project. Approval for encroachments is not guaranteed if impacts to transportation facilities cannot be addressed to the City's satisfaction.
    - Identify any truck hauling routes to and from the proposed development site and any proposed accesses. Designated heavy truck routes are to be followed at all times, however, if a deviation is required from the existing heavy truck route network, then a structural review may be required as part of an Over-dimensional Vehicle Project Permit.
    - Identify the location of any site trailers and the location. Note, if placing a site trailer above any walk-through scaffolding or on the second floor (or above), an engineering drawing must be submitted to building code services for review. More information can be found on the Building Permit Approval process.
    - Identify equipment and/or materials storage locations as required. Storage is not permitted on the road or the roadway shoulders or boulevards, unless the storage areas are identified in the traffic control plan and appropriate traffic control devices protect the equipment or materials.
  - Any work as part of the development that requires a road cut, road closure or encroachment will be subject to the Road Activity By-law and potential site-specific conditions identified at site plan or subdivision approval which will be noted on the subsequent Permit(s). Information about construction in the right-of-way including applying for permits and associated fees can be found on the City's website.

List of Technical Agencies to Consult

Proposed Site Plan Control Application – 1108 Maisonneuve St – PC2024-0214

☒	Zayo	Utility.Circulations@Zayo.com
☒	Bell Canada	circulations@wsp.com
☒	Telus Communications	Engineering.Requests@telus.com / jovica.stojanovski@telus.com
☒	Rogers Communications	OPE.Ottawa@rci.rogers.com
☒	Enbridge Gas Distribution	municipalplanning@enbridge.com
☒	Hydro Ottawa (Local Distribution)	ExternalCirculations@HydroOttawa.com

Urban Design Brief

Terms of Reference

1. Description

An Urban Design Brief is intended to illustrate how a development proposal represents high-quality and context sensitive design that implements policies of the Official Plan, relevant secondary plans, and Council approved plans and guidelines. The Urban Design Brief should not replace or replicate the Planning Rationale, it is intended to be a highly graphic document that is complimentary to the Planning Rationale. The purpose of this Terms of Reference is to assist the applicant to organize and substantiate the design approach and considerations in support of the proposed development and to assist in the review of the proposal.

2. Authority To Request / When Required

An Urban Design Brief will be required for the following development applications:

Official Plan Amendments:

Per *Planning Act*, Section 22 (4) and (5) for information or materials required by the City to review an Official Plan Amendment Application if the official plan contains provisions relating to requirements under this subsection, which propose increases in height or density.

Zoning By-law Amendments:

Per *Planning Act*, Section 34 (10.2) for information or materials required by the City to review a Zoning By-law Amendment Application to permit the extension or enlargement of any land, building or structure used for any purpose prohibited by the by-law, which propose increases in height or density.

Site Plan Control Applications:

Per *Planning Act*, Section 41 (3.4) for information or materials required by the City to review a Site Plan Control Application and Section 41 (4) and 41 (4.1.1) for elements, facilities and works where the appearance impacts matters of health, safety, accessibility, sustainable design or the protection of adjoining lands.

An Urban Design Brief is a requirement for all Site Plan Control Application thresholds in accordance with the City of Ottawa Site Plan Control By-law as amended; with the exception of a “Rural Small” Site Plan Control application.

For residential buildings with 25 or more residential units, the City has authority under Section 41 (4) paragraph 2 to require. For residential buildings with less than 25 residential units, the City has authority to require for such buildings based on 11.1 (3) of the Official Plan and 41 (5) of the *Planning Act* if the units are within the Urban area or the High-performance Development Standard threshold in the rural area, as per the Site Plan Control By-law.

For all other uses (non-residential and mixed-use) the City has authority under Section 41 (4) paragraph 2 to require.

Plan of Subdivision

Per *Planning Act*, Section 51 (18) for information or materials required by the City to review Plan of Subdivision applications, which include multiple blocks of development planned for medium and/or high-rise development and a mix of land uses.

3. Content

The content for an Urban Design Brief is itemized in the following checklist. Each required item must be discussed and/or illustrated to the appropriate level of detail, commensurate with the complexity of the proposal. Required item(s) are determined by the lead City Urban Designer at the pre-consultation meeting and will be selected from the checklist below:

PROJECT DESCRIPTION

- ☐ Brief description of the design intent behind the development proposal. This description should be more design detailed, and not replicate the description within the Planning Rationale.
- ☑ Project statistics, including gross floor area, the breakdown of floor area for different uses, total number and detailed breakdown of units, total number and detailed breakdown of vehicle and bike parking, building heights, lot coverage, etc. Project statistics should be illustrated in a table.
- ☑ Rendering of the proposal.

DESIGN DIRECTIVE(S)

- ☐ A concise summary and response to the applicable City's design policies, including from the Official Plan, and City urban design guidelines. A more

detailed response shall be provided for any applicable urban design criteria that are not being met by the proposal.

- ☑ A response to urban design directions provided at the various pre-consultation meetings with City staff.

SITE, CONTEXT, AND ANALYSIS

Photographs, maps, diagrams, and images may be utilized along with brief explanatory text to document and analyze condition and context of the site. The requested information should cover area within a 100 metre radius of a development site. A larger radius may be requested for larger / more complex projects.

- ☐ Photographs of existing site conditions and surrounding area, including a numbered map pinpointing where each photo is taken. Correspond these numbers with the site photos and include arrows illustrating the direction of the photograph.
- ☐ Perspective images to and / or from the site.
- ☐ Protected view corridors or views of interest that may be impacted by the proposed development.
- ☐ Built and natural heritage assets on site and adjacent area.
- ☐ Microclimate conditions of the site.
- ☐ Key uses, destinations, and spatial elements in the surrounding area such as focal points/nodes, gateways, parks/open spaces, and public arts.
- ☐ Urban pattern (streets, blocks).
- ☐ Characteristics of adjacent streets and public realm.
- ☐ Mobility networks, such as transit stations, street networks, cycling facilities, pedestrian routes and connections, and parking.
- ☐ Future and current development proposals on adjacent properties.
- ☐ The planned functions of the adjacent properties, such as the permitted building envelope under current zoning.

DESIGN RESEARCH

Diagrams, 3D images and other tools may be utilized to explain and illustrate design aspirations, alternatives and proposed outcomes.

- ☐ Parti diagrams, sketches, and precedent images.
- ☐ Alternative site plan options.
- ☐ Alternative massing options.
- ☐ Design evolution.
- ☐ Massing of the proposed development in the existing context.
- ☐ Massing of the proposed development in the planned context. The planned context may be represented by the current zoning permissions OR policy criteria if zoning is not in keeping with Official Plan direction.
- ☐ Block Plan illustrating potential future development in the area in which the proposed site is situated.
- ☐ Built form transition between the proposed development and the surrounding area.
- ☐ Response to abutting public realm conditions beyond the boundaries of the site.
- ☐ Street cross sections that show the building wall to building wall conditions of the adjacent streets.
- ☐ Approach to sustainable design as it relates to the City's High-performance Development Standards or any other accredited system such as LEED.
- ☐ Approach to bird-safe design as it relates to the City's Bird-Safe Design Guidelines

ADDITIONAL MATERIALS – APPENDIX

The following appendix of additional materials is only required when an application is subject to review by the City's Urban Design Review Panel as the Urban Design Brief will be used as the Urban Design Review Panel Presentation. The requirement for the submission of the following drawing(s) and studies are made separately at the pre-consultation by the Lead Planner and are the subject of other Terms of Reference. The lead City Urban Designer will indicate the required item(s) from the checklist below to be provided as an appendix to the Urban Design Brief.

- ☐ Site Plan
- ☐ Landscape Plan

- ☐ Plan of Subdivision
- ☐ Grading and Drainage Plan
- ☐ Site Servicing Plan
- ☐ Building elevation(s) of the proposed building(s). Conceptual drawings may suffice in support of a Zoning By-law and/or Official Plan Amendment.
- ☐ Floor Plan(s) of the proposed building(s). Conceptual drawings may suffice in support of a Zoning By-law and/or Official Plan Amendment
- ☐ Wind Analysis
- ☐ Shadow Analysis
- ☐ High-performance Development Standards Checklist
- ☐ Heritage Impact Statement

4. Roles and Responsibilities / Qualifications

The Urban Design Brief is required to be signed by a member holding a professional membership with the OAA, OALA, OPPI, and/or CIP, or equivalent professional organization; and should include materials prepared by urban designer(s), licensed architect(s), licensed landscape architect(s), and registered planner(s).

5. Submission Requirements

- 8.5x11 or 11x17 package (landscape orientation preferred)
- Electronic copies of all required studies and plans must be supplied in Adobe .PDF format and are to be unlocked and flattened.
- Supporting Georeferenced Digital CAD/BIM/GIS files for 3D Building Massing Model (in accordance with the City's 3D Massing Submission Requirements) is required for all development applications associated with a mid-rise and/or high-rise building where a design brief is a requirement of a complete application.

1. Accessible Parking Spaces

The terms Type A and Type B Parking Spaces have the same meaning as within O. Reg 191/11

This section applies to:

1) *Parking garages and related structures*
2) *Surface parking*
3) *On-street parking*

Standard Ref.	Requirements	Compliance	Comments
3.1.1.	**Provision:** 1 Type A accessible parking space must be provided where there are 12 or fewer spaces (see Table 3 for a complete list)	Y N N/A	
3.1.2	**Provision:** 4% of the total number of parking spaces should be accessible	Y N N/A	
3.1.2	**Provision:** if the total number of spaces is greater than 1001, provide 11 accessible parking spaces plus an addition 1% of the total number of spaces	Y N N/A	
3.1.3	**Access Aisle:** minimum of 1.5 m (see Figure 25)	Y N N/A	
3.1.3	**Location:** a maximum of 30 m from nearest accessible entrance	Y N N/A	
3.1.3	**Surface:** firm, stable and slip resistant	Y N N/A	
3.1.3	**Running slope:** maximum of 1:50 (2%)	Y N N/A	
3.1.3	**Cross slope:** maximum of 1:50 (2%)	Y N N/A	
3.1.3	**Type A spaces:** Length 5.2 m Width 3.4 m Type B spaces Length: 5.2 m Width: 2.4 m	Y N N/A	
3.1.3	**Overhead clearance:** minimum of 2.1 m	Y N N/A	
3.1.3	**Access Aisle:** minimum of 1.5 m. Must be clearly marked and adjacent to accessible parking space	Y N N/A	
3.1.4.1	**Vertical Signage:** **Width:** 0.3 m **Height:** 0.6 m (minimums)	Y N N/A	

Note – this Checklist must be read in conjunction with the City of Ottawa's Accessible Design Standards Document, 2015. All figures referenced in this document can be found in the City's Accessible Design Standards document.

	Mounted: 1.5 m to 2.0 m high at centre • Marked with International Symbol of Accessibility (see Figure 25)		
3.1.4.2	**Pavement Markings** • Marked with the International Symbol of Accessibility • 15.25 m wide by 15.25 m deep • Locate near the back of the space for 90 degree or angled parking spaces • Locate in the centre for parallel parking spaces (see Figure 27)	Y N N/A	

2. Passenger Loading Zone

Standard Ref.	Requirements	Compliance	Comments
3.2.1	**Location:** maximum of 30 m from nearest accessible entrance	Y N N/A	
3.2.1	**Side Access Aisle** **Length:** 7.4 m **Width:** 2.4 m (minimums) (see Figure 28)	Y N N/A	
3.2.1	**Vertical Clearance:** 3.6 m	Y N N/A	
3.2.1	**Path of Travel:** minimum of 1.8 m wide to nearest accessible entrance	Y N N/A	
3.2.1.1	**Vertical Signage** **Width**: 0.3 m by 0.6 m **Mount:** 1.5 m to 2.0 m high at centre (see Figure 29)	Y N N/A	

Note – this Checklist must be read in conjunction with the City of Ottawa's Accessible Design Standards Document, 2015. All figures referenced in this document can be found in the City's Accessible Design Standards document.

3. Exterior Paths of Travel

Where stairs are located on an accessible Exterior route or walkway, an alternative Accessible route is to be provided immediately adjacent to the stairs

This section applies to:

1) *Pedestrian routes that serve facility entrances*
2) *Pedestrian routes that serve as a connection between a site boundary and entrance into the site*
3) *Public Rights-of-Way*
4) *Ramps and Curb Ramps*

Standard Ref.	Requirements	Compliance	Comments
3.3.1	**Surface:** firm, stable and slip resistant	Y N N/A	
3.3.1	**Lighting:** Provide in accordance with Section 5.7 (Lighting)	Y N N/A	
3.3.2	**Path of travel:** minimum 1.8 m wide	Y N N/A	
3.3.3.1	**Running Slope:** 1:20 (5%) (maximum)	Y N N/A	
3.3.3.2	**Cross Slope:** 1:20 (2%) (maximum) where surface is concrete or asphalt. 1:10 (10%) in all other cases.	Y N N/A	
3.3.1	**Rest Area:** If width is less than 1.8 m, provided every 30 m along path of travel. Rest area to be 1.8 m by 1.8 m (minimums)	Y N N/A	
3.3.4	**Guards:** Provide when change in level is more than 0.6 m	Y N N/A	
2.1.4	**Gratings or Openings:** 13 mm (maximum) wide in direction of travel. Longest side, if rectangular, must be perpendicular with the direction of travel	Y N N/A	

Note – this Checklist must be read in conjunction with the City of Ottawa's Accessible Design Standards Document, 2015. All figures referenced in this document can be found in the City's Accessible Design Standards document.

4. Curb Ramps

A curb ramp provides a transition where there is a change in level between exterior path of travel and adjacent vehicular route

This section applies to:
1) *Pedestrian crossings at intersections*
2) *Parking spaces, passenger loading zones and related access aisles*
3) *Any other exterior route where there is a grade change.*

Standard Ref.	Requirements	Compliance	Comments
3.4.1	**Surface:** firm, stable and slip resistant	Y N N/A	
3.4.2	**Clear width:** 1.5 m (minimum), exclusive of flares	Y N N/A	
3.4.3	**Running Slope**: 1:12 (8.33%) (maximum)	Y N N/A	
3.4.3	**Cross Slope:** 1:50 (2%) (maximum) (see Figure 33b)	Y N N/A	
3.4.6	**Tactile Surface Walking Indicators (TWSI):** minimum depth of 610mm, at 150 mm to 200 mm from edge of curb (see 33b)	Y N N/A	
3.4.2.2	**Flared Side:** 1m wide; slope 1:15 to 1:10.	Y N N/A	

Note – this Checklist must be read in conjunction with the City of Ottawa's Accessible Design Standards Document, 2015. All figures referenced in this document can be found in the City's Accessible Design Standards document.

5. Ramps

Ramps are provided when the slope of a path of travel exceeds a gradient of 1:20 (5%)

Refer to the Ontario Building Code for all applied requirements for ramps.

For all ramp standards, see Figure 3

Standard Ref.	Requirements	Compliance	Comments
2.2.1.1	**Running Slope:** 1:15 (6.67%)	Y N N/A	
2.2.1.2	**Cross-Slope:** 1:50 (2%)	Y N N/A	
2.2.1	**Surface:** firm, stable and slip-resistant	Y N N/A	
2.2.1	**Clear Width:** 1.1 m (minimum)	Y N N/A	
2.2.1.4	**Colour Contrasting Strip:** to be provided at slope changes. 50 mm wide colour-contrasted and slip resistant strip equal to the width of the ramp	Y N N/A	
2.2.1	**Lighting:** provide in accordance with Section 5.7 (Lighting)	Y N N/A	
2.2.2	**Length:** 9 m, or less, or provide landing	Y N N/A	
2.2.2	**Landing:** to be provided at top, bottom or intermediate level, or where there is directional change. (see Figure 5)	Y N N/A	
2.2.3.1	**Handrail:** 865 to 965 mm high on both sides. **Clear width**: 1.1 m between handrails (see Figure 8)	Y N N/A	

Note – this Checklist must be read in conjunction with the City of Ottawa's Accessible Design Standards Document, 2015. All figures referenced in this document can be found in the City's Accessible Design Standards document.

6. Stairs

This section applies to stairs provided for exterior or interior environments

Refer to the Ontario Building Code for all applied requirements for stairs.

For all stair standards, see Figure 10

Standard Ref.	Requirements	Compliance	Comments
2.3	**Stairs:** where provided, an alternative accessible route is to be provided immediately adjacent, and may include a ramp or other accessible means of negotiating grade change	Y N N/A	Note which alternative to stairs is provided.
2.3.1	**Surface:** firm, stable and slip-resistant	Y N N/A	
2.3.1.1	**Tread:** 280 mm to 355 mm deep	Y N N/A	
2.3.1.1	**Riser:** 125 mm to 180 mm high	Y N N/A	
2.3.1	**Open Riser:** not permitted	Y N N/A	
2.3.1.2	**Nosing Projection:** 38 mm (maximum) (see Figure 10)	Y N N/A	
2.3.1.2	**Nosing Strip**: 50 mm deep, colour contrasted, at leading edge of tread and extending the full length of the tread	Y N N/A	
2.3.1.3	**Tactile Surface Walking Indicators (TWSI):** minimum of 610 mm deep, one tread back (see Figure 11)	Y N N/A	
2.3.1	**Lighting:** to be provided in accordance with Section 5.7	Y N N/A	
2.3.2.2	**Handrail:** 865 mm to 965 mm high on both sides. (see Figure 12)	Y N N/A	

Note – this Checklist must be read in conjunction with the City of Ottawa's Accessible Design Standards Document, 2015. All figures referenced in this document can be found in the City's Accessible Design Standards document.

7. Building Entrance

This section does not apply ☐

Standard Ref	Requirements	Compliance	Comments
4.1.1	**Provision:** at least one (1) accessible entrance 50% of the total number of building entrances (see Figure 36)	Y N N/A	
4.1.1	**Provision:** 50% of the total number of building entrances must be accessible (see Figure 36)	Y N N/A	
4.1.1	**Provision:** 30 m or less from nearest accessible parking space, or passenger loading or drop off zones	Y N N/A	

8. Benches and Seats

This section applies to
1) Rest areas and accessible routes
2) Outdoor public use eating areas
3) Waiting areas

Standard Ref	Requirements	Compliance	Comments
2.10.1	Seat height between 450 mm and 500 mm above finished floor (see Figure 23)	Y N N/A	
2.10.1	Seat depth between 330 mm and 510 mm	Y N N/A	
2.10.1	Back support extending 320 mm (minimum) above seat surface	Y N N/A	
2.10.1	Provide at least one (1) armrest at a height between 220 mm and 300 mm from the seat for additional support	Y N N/A	

Note – this Checklist must be read in conjunction with the City of Ottawa's Accessible Design Standards Document, 2015. All figures referenced in this document can be found in the City's Accessible Design Standards document.

High Performance Development Standard
Tier 1 Site Plan Checklist
Example

DRAFT

General Project Description

Project Name	
Contact	
Site Plan Control Application Subtype	
Proposed Total Gross Floor Area (m2)	
Total number residential units	
Building Use	
Total number residential units	

This document is for illustrative purposes only to provide projects context of the information that will be required to be submitted on the HPDS Checklist

1.1 **Energy Use**

Is the project a Complex Site Plan? (if no energy requirements are not required)	

	EUI	TEDI	GHGI
Residential Building	147	62	19
Office Building	142	42	19
Retail Building	132	52	12
Energy Intensity Required* (area weighted average in a mixed use building)			
Energy Intensity of Proposed Building			

Energy thresholds become mandatory June 1, 2023.

OR

	Required	Proposed
Proposed Building Energy Use		
Reference Building Energy Use		
Percent Improvement	25%	0

OR

Commitment to pursue certification program	
Reference to Drawing, Plans, or Report	

1.2 **Site Plan Accessibility**

Are the main entrances equally accessible to all users?	
Brief Description of how accessibility is achieve on the site	
Reference to Drawing, Plans, or Report	

Accessible Grate Design

	Maximum grate		Number of grates
Grates located on path of travel	13mm diameter		
Grates located away from path of travel	20x20mm or 10x40		
Has the requirement been met and identified on the plan?			
Reference to Drawing, Plans, or Report			

Alternately grates may be screened

High Performance Development Standard
Tier 1 Site Plan Checklist
Example

DRAFT

1.3 **Fresh Air Intake**

Is the project located within:

150 metres of a road with an average of 50,000 vehicles or more per day	
100 metres of road with an average of 15,000 vehicles or more per day	
100 metres of idling areas (this includes onsite idling areas)	
If answered yes to any of the above provide a brief description of how the site will protect outdoor amenity and fresh air intakes from these sources of air pollution.	
Reference to Drawing, Plans, or Report	

1.4 **Tree Planting**

	Required	Proposed
Total site area (m^2)		
Total Soil Volume (m3)	0	
Total number of planting areas (minimum of $30m^3$ soil)		
Total number of trees planted		

Requirement to come in effect with the release of tree planting guidelines.

Reference to Drawing, Plans, or Report

1.5

Plant Species	**Required (m^2)**	**Proposed (m^2)**	**Proposed %**
Total landscaped site area			
Landscaped site area planted with drought-tolerant plants (minimum 50%)	0		
Total number of plants			
Total number of native plants and % of total plants planted (minimum 50%)	0		

Reference to Drawing, Plans, or Report	

1.6 **Exterior Lighting**

All exterior lighting fixtures Dark Sky compliant	
Reference to Drawing, Plans, or Report	

1.7 **Bird Safe Design**

	Required (m^2)	**Proposed (m^2)**	**Proposed %**
Total area of glazing of all elevations within 12m above grade (including glass balcony railings)			
Total area of treated glazing (minimum 85% of total area of glazing within 12m above grade)	0		
Percentage of glazing within 12m above grade treated with:			
a) Low reflectance opaque materials			
b) Visual markers			
c) Shading			

Reference to Drawing, Plans, or Report	

High Performance Development Standard
Tier 1 Site Plan Checklist
Example

1.8 **Sustainable Roofing**

Does the project have a flat roof over 500 m2? If no project is not subject to cool roof requirement	Y/N

	Required (m^2)	Proposed (m^2)	Proposed %
Available Roof Space			
Available Roof Space provided as Green Roof			
Available Roof Space provided as Reflective Roof			
Available Roof Space designated Solar Ready If reflective roof path is chosen and roof area is over 2,500m2, Minimum 1,000m2 of solar ready area must be provided	1000		
Available Roof Space provided as Solar Panels			
Available Roof Space provided as Accessible Green Roof This is counted at 120% of area provided			
Available Roof Space provided as Food growing space This includes entire garden area included pathways and adjacent terraces			
Metric requirement met? (50% green, 90% white, or a combination of strategies amounting to 75%)	yes/no		
Reference to Drawing, Plans, or Report			

1.9 **Cool Landscape and Paving**

Industrial work yards or similar areas that limit the available options for shading or reflective surfaces may be excluded from the hard surface area calculation.

Projects must meet one of the following

	Required by Zoning (m2)	Proposed (m^2)	Proposed exceeding minimum %
Total non roof soft landscape area (minimum 20%)			

OR

	Required (m^2)	Proposed (m^2)	Proposed %
Total non-roof hardscape area			
Total non-roof hardscape area treated for Urban Heat Island (minimum 50%)			
Area of non-roof hardscape treated with:			
a) high-albedo surface material			
b) open-grid pavement			
c) shade from tree canopy			
d) shade from high-albedo structures			
e) shade from energy generation structures			
f) At grade parking lot area with more than 1 tree per 5 parking spaces			

Reference to Drawing, Plans, or Report	

High Performance Development Standard
Tier 1 Site Plan Checklist
Example

DRAFT

1.10. **Common Area Waste Storage**

	Required	Proposed
Total Waste Storage Area		
Garbage		
Recycling Paper		
Recycling Plastic Metal Glass		
Compost		
Reference to Drawing, Plans, or Report		

Construction Waste Management Plan Provided	
Reference to Drawing, Plans, or Report	

1.11 **Electric Vehicle Parking**

	None Required	Proposed
Number of Resident Parking Spaces		
Number of Visitor Parking Spaces		
Number of Commercial Parking Spaces		

Number of EV Ready Parking Spaces	

Reference to Drawing, Plans, or Report	

1.12 **Bike Access and Storage**

	Required by Zoning	Proposed
Number of Resident Bike Parking Spaces		
Number of Visitor Bike Parking Spaces		
Number of Commercial Bike Parking Spaces		

Does the bike parking plan meet accessibility, safety and proximity requirements?	
Reference to Drawing, Plans, or Report	

What is the High Performance Development Standard?

The High Performance Development Standard (HPDS) is a collection of mandatory and voluntary standards or "metrics" that raise the performance of new building projects to achieve "sustainable and resilient design" objectives. The HPDS consists of three tiers of performance. The standards, also known as 'metrics' in Tier 1 are mandatory. Tiers 2 and 3 contain higher level voluntary standards.

"Sustainable and resilient design is defined as "*Principles in site and building design to protect against the depletion of critical resources like energy, water, land, and raw materials, reduce greenhouse gas emissions, prevent environmental degradation throughout its life cycle, and create built environments that are liveable and comfortable while being safe and resilient to the impacts of a changing climate" (see new Official Plan, Section 13).*

What is the purpose of the HPDS?

Buildings are a major source of greenhouse gas emissions in Ottawa. Designing new buildings to be energy efficient from the outset will help reduce greenhouse gas emissions and save on costly retrofits in the future. The HPDS will also help build resiliency to our changing climate through tree canopy, ecology and urban heat island mitigation strategies.

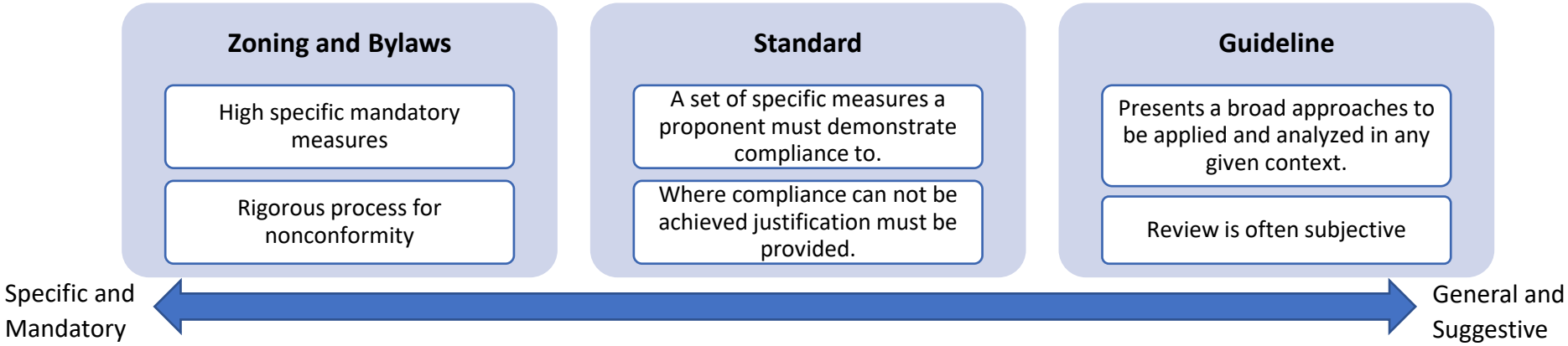
Collectively, the metrics aim to advance the climate change mitigation and adaption priorities of the Climate Change Master Plan, Energy Evolution and the Climate Resiliency Strategy as well as the City's objectives related to public health, ecology and accessibility.

Tier 1 Metrics

Category	Energy	Health	Ecology	Resiliency	Waste	Transportation
Site Plan Tier 1	• Energy Efficiency	• Accessibility • Fresh Air Intake Location	• Tree Planting • Plant Species • Exterior Lighting • Bird Safe Design	• Sustainable Roofing • Cool Landscape and Paving	• Common Area Waste Storage	• Electric Vehicle Charging • Bike Parking
Plan of Subdivision Tier 1	• Community Energy Plan	N/A	• Tree Planting • Plant Species	• Community Energy Plan	N/A	N/A

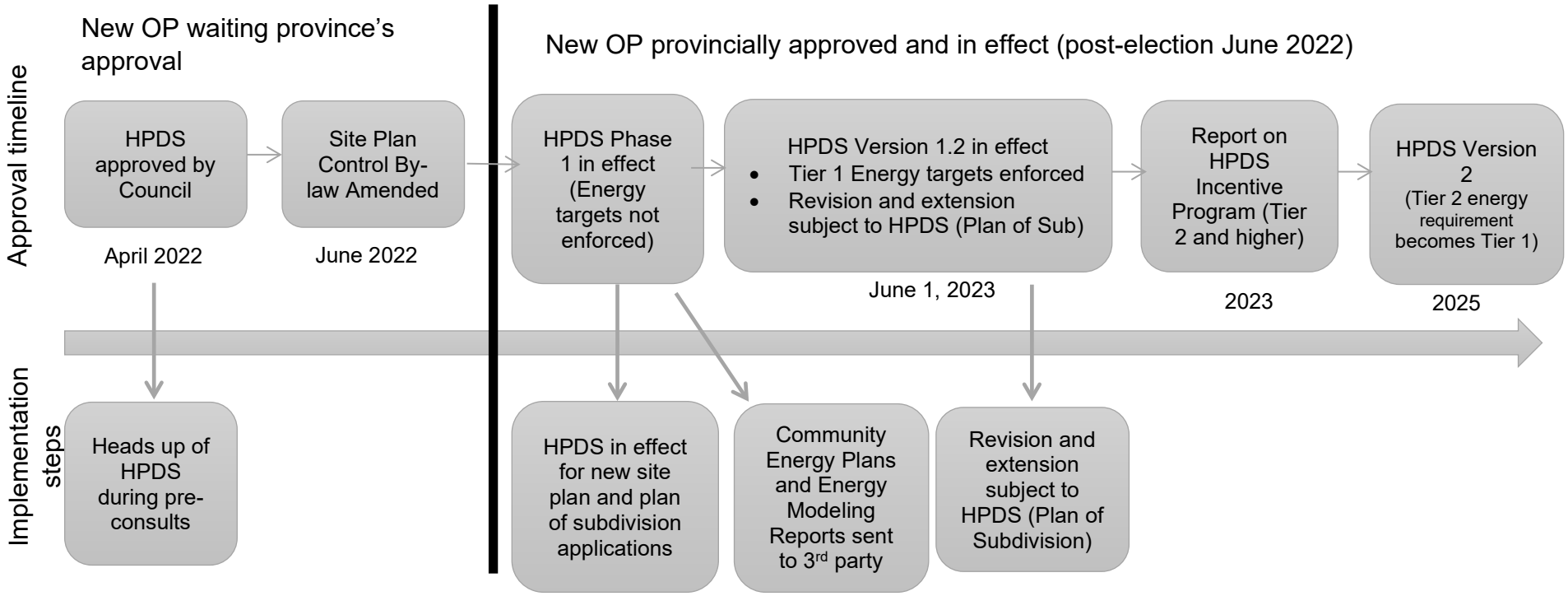
What is the difference between a standard and other planning tools?

- A standard is a set of specific measures to which a proponent must implement to the fullest extent.
- Whereas a guideline is suggestive and general in nature, a standard is prescriptive and mandatory.
- Whereas the Zoning By-law sets out a separate process to review nonconformity through the Committee of Adjustment, relief from a standard is subject to the review and approval by the Department based on justification provided by the applicant through the development approval process.



Some design elements may have criteria that are covered in all these tools where there are associated guidelines or bylaws the HPDS will reference these

Timing of requirements coming into effect



Frequently Asked Questions

1. When will the HPDS be fully implemented?

The HPDS is being rolled out in a phased approach as follows:

- Tier 1 (mandatory) building energy efficiency metrics will not apply until June 1, 2023 (i.e. Energy Modeling Reports will be "Report-Only" – see FAQ below)
- Tier 1 metrics will apply to applications for extension and revision of plan of subdivision effective June 1, 2023

- Tier 1 requirements for bike and electric vehicle parking will be proposed as part of the new Zoning By-law (post Official Plan adoption)
- The mandatory metrics are expected to be updated in 2025 and will come into effect in 2026.

2. What about ongoing applications?

We encourage projects, including those that have already been through pre-consultation or submitted an application, to comply with the HPDS. The HPDS will not apply to projects that have been through pre-consultation where the HPDS was not introduced OR are submitting an application prior to the new Official Plan receiving provincial approval. The HPDS will apply to applications for an extension or revision of draft plan approval (Plan of Subdivision) that are submitted on or after June 1, 2023.

3. How will the HPDS impact the Development Review process?

The HPDS will impact the development review process steps as follows:

	Site Plan applications	**Plan of Subdivision applications**
Pre-application Consultation	The HPDS will be flagged during the pre-application consultation for awareness. For Complex Site Plan applications, it is recommended that applicants engage an energy consultant at the same time as the building architectural drawings are being developed.	The HPDS will be flagged during the pre-application consultation for awareness. A new requirement is that a completed Community Energy Plan be submitted as a condition of draft approval. As indicated in the Terms of Reference, a letter is required at application submission which outlines the energy commitments and proposed energy strategy as well as confirmation of an established working group (as applicable).
Application Submission:	A completed HPDS Checklist is required at submission.	A completed HPDS Checklist is required at submission. Where a complete Community Energy Plan Report or Brief is not complete at time of application submission, projects are permitted to provide a letter which identifies the following project elements: • project partners, joint working group and key stakeholders • qualified professional completing the Community Energy Plan • proposed Community Energy Plan compliance pathway, prescriptive or a complete plan;

		• intended target level of performance for the community
Issue Resolution:	The File Lead will identify issues of non-conformity to the HPDS as part of the circulation comments. Following circulation, all resubmission packages shall include an updated HPDS Checklist. For Complex Site Plan applications, the resubmission package shall also include a draft Energy Modeling Report (EMR), which is to be sent for review by a third-party consultant.	The File Lead will identify issues of non-conformity to the HPDS as part of the circulation comments. Following circulation, all resubmission packages shall include an updated HPDS Checklist.
Approval / Post-approval:	The final EMR is submitted once the Delegated Authority Report (DAR) is prepared. The DAR will include conditions pertaining to the HPDS.	A completed Community Energy Plan is to be submitted as a condition of draft approval. The Delegated Authority Report (DAR) will include conditions pertaining to the HPDS.

4. What is the timing on incentives for Tier 2 projects?

There are currently no financial or process related incentives available to be implemented. Staff have been directed to investigate incentive options and report back to Council in 2023.

5. What does "Report Only" mean for Energy Modeling Reports submitted before June 1, 2023?

The term "Report Only" describes an interim period until June 1, 2023 when Tier 1 energy targets must be met. The "Report Only" period will help staff and industry become more familiar with energy modeling reports and how energy efficiency is to be reviewed during the approval process. It is also for industry to gain a better understanding of the types measures projects can apply to achieve energy targets.

6. Are deviations from the mandatory metrics permitted?

The expectation is for projects to demonstrate full compliance with the HPDS metrics. Where full compliance cannot be achieved, documentation will be required that provides sufficient justification why a deviation from the HPDS is necessary. Permission to deviate from the HPDS shall be subject to the review and approval of the GM, Planning, Real Estate and Economic Development Department. Example: A project has several separate roof spaces and is treating most of podium roof area which nearly meets the sustainable roofing requirement of the HPDS but to become in full compliance would have to treat the entire other roof area, resulting in significant cost.

7. Will the City provide training to the community on the HPDS?

Yes. More details are to be provided on training in Q3 2022. Until that time, specific questions should be directed to: hpds@ottawa.ca

Appendix F – Drawings

Existing Site Survey Plan by Annis O'Sullivan Vollebekk (1 Page)

Architectural Site Plan and Drawings (22 Pages)

Civil Drawings:

C000 – Existing Conditions and Removals Plan (Included Separately)

C001 – Notes and Details (Included Separately)

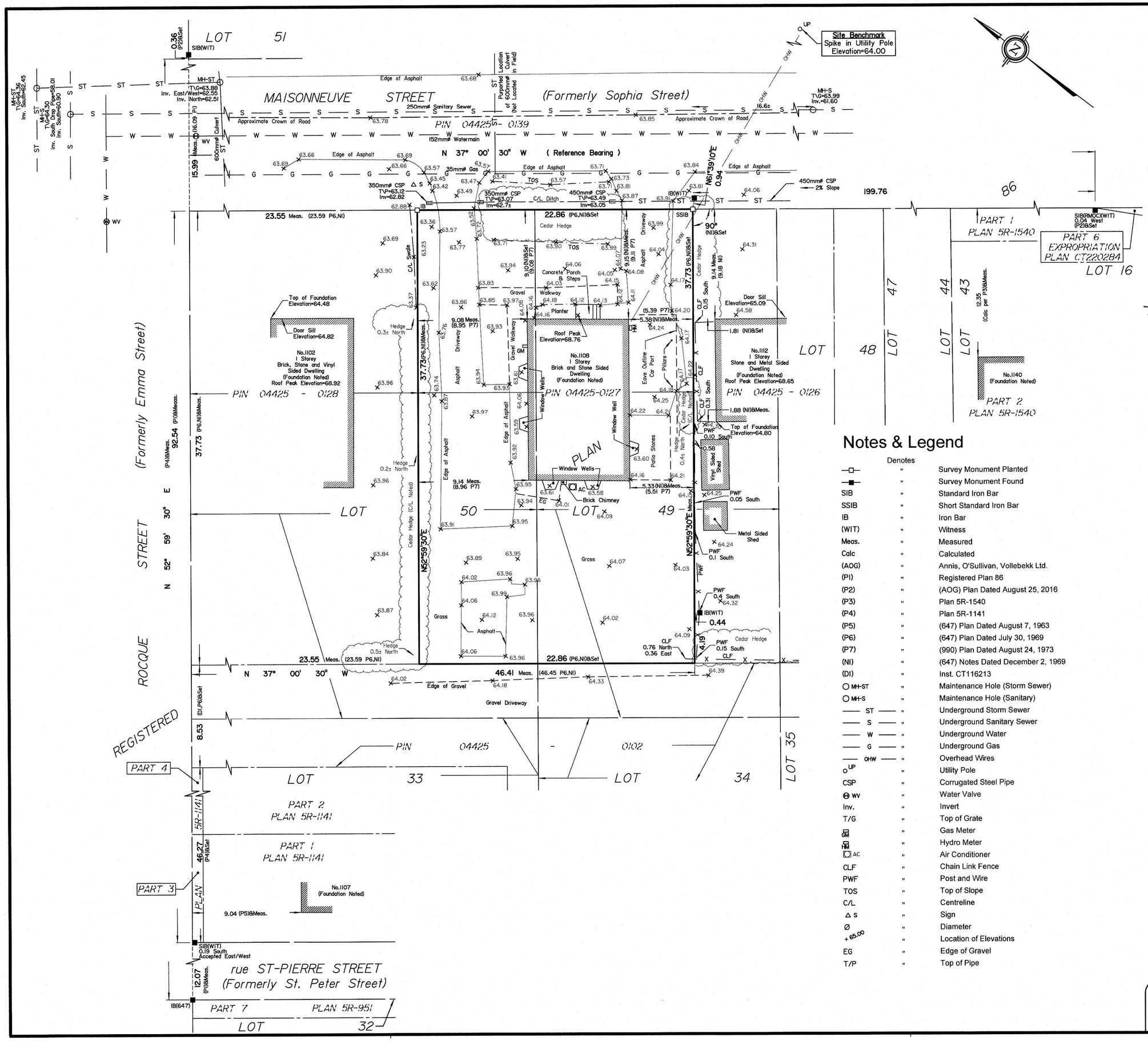
C100 – Site Servicing Plan (Included Separately)

C200 – Site Grading Plan (Included Separately)

C300 – Erosion and Sediment Control Plan (Included Separately)

C400 – Pre-Development Catchments (Included Separately)

C500 – Post-Development Catchments (Included Separately)



SURVEYOR'S REAL PROPERTY REPORT

PART 1 Plan of

PART OF LOTS 49 AND 50 REGISTERED PLAN 86 CITY OF OTTAWA

Surveyed by Annis, O'Sullivan, Vollebekk Ltd.

Scale 1 : 200

8.0 6.0 4.0 2.0 0 4 8 Metres

Metric

DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

Surveyor's Certificate

I CERTIFY THAT :

1. This survey and plan are correct and in accordance with the Surveys Act and the Surveyors Act and the regulations made under them.
2. The survey was completed on the 13th day of July, 2023.

July 27, 2023
Date

E. H. Herweyer
Ontario Land Surveyor

PART 2
THIS PLAN MUST BE READ IN CONJUNCTION WITH SURVEY REPORT DATED: July 27, 2023

ANNIS, O'SULLIVAN, VOLLEBEKK LTD. grants to 2701292 Ontario Ltd. ("The Client"), their solicitors, mortgagees, and other related parties, permission to use original, signed, sealed copies of the Surveyor's Real Property Report in transactions involving The Client.

Notes & Legend

	Denotes	
—□—	"	Survey Monument Planted
—■—	"	Survey Monument Found
SIB	"	Standard Iron Bar
SSIB	"	Short Standard Iron Bar
IB	"	Iron Bar
(WIT)	"	Witness
Meas.	"	Measured
Calc	"	Calculated
(AOG)	"	Annis, O'Sullivan, Vollebekk Ltd.
(P1)	"	Registered Plan 86
(P2)	"	(AOG) Plan Dated August 25, 2016
(P3)	"	Plan 5R-1540
(P4)	"	Plan 5R-1141
(P5)	"	(647) Plan Dated August 7, 1963
(P6)	"	(647) Plan Dated July 30, 1969
(P7)	"	(990) Plan Dated August 24, 1973
(NI)	"	(647) Notes Dated December 2, 1969
(DI)	"	Inst. CT116213
○ MH-ST	"	Maintenance Hole (Storm Sewer)
○ MH-S	"	Maintenance Hole (Sanitary)
—— ST ——	"	Underground Storm Sewer
—— S ——	"	Underground Sanitary Sewer
—— W ——	"	Underground Water
—— G ——	"	Underground Gas
—— OHW ——	"	Overhead Wires
○ UP	"	Utility Pole
CSP	"	Corrugated Steel Pipe
⊗ WV	"	Water Valve
Inv.	"	Invert
T/G	"	Top of Grate
GM	"	Gas Meter
HM	"	Hydro Meter
⊡ AC	"	Air Conditioner
CLF	"	Chain Link Fence
PWF	"	Post and Wire
TOS	"	Top of Slope
C/L	"	Centreline
△ S	"	Sign
Ø	"	Diameter
+ 65.00	"	Location of Elevations
EG	"	Edge of Gravel
T/P	"	Top of Pipe

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-53841

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR In accordance with Regulation 1026, Section 29 (3).

SITE AREA = 862.6 m²

Bearings are grid, derived from Can-Net 2016 Real Time Network GPS observations, and are referenced to specified control points 01919680184 and 019198434761, MTM Zone 9 (76°30' West Longitude) NAD-83 (original).

For bearing comparison, a rotation of 0°01'10" clockwise was applied to bearings on P3 and a rotation of 0°01'25" clockwise was applied to bearings on P4.

UTILITY NOTES

1. This drawing cannot be accepted as acknowledging all of the utilities and it will be the responsibility of the user to contact the respective utility authorities for confirmation.
2. Only visible surface utilities were located.
3. A field location of underground plant by the pertinent utility authority is mandatory before any work involving breaking ground, probing, excavating etc.
4. Underground Utility information compiled from City of Ottawa Utility sheet reference: C-31-24,C-31-18, Drawing No. 70-1677-01-12 and Drawing No. 98082-P2.

ELEVATION NOTES

1. Elevations shown are derived from City of Ottawa monument No. 2016-0027 having an elevation of 61.165 metres referred to the CGVD28 geodetic datum.
2. It is the responsibility of the user of this information to verify that the job benchmark has not been altered or disturbed and that it's relative elevation and description agrees with the information shown on this drawing.

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Ontario Land Surveyors

Job No. E-3508-23 OntarioInc. PIL149.50 PIB6 D-E F | FL

DRAWING LIST

ARCHITECTURAL

A-000 COVER PAGE
A-001 ABBREVIATED SPECIFICATIONS
A-002 ABBREVIATED SPECIFICATIONS
A-003 OBC MATRIX, GENERAL NOTES, ASSEMBLIES
A-004 DOOR, FRAME, WINDOW & UNIT SCHEDULES

A-050 SITE PLAN - DEMOLITION
A-100 SITE PLAN - CONSTRUCTION

A-200 BASEMENT FLOOR PLAN
A-201 1ST FLOOR PLAN
A-202 2ND FLOOR PLAN
A-203 3RD FLOOR PLAN
A-204 4TH FLOOR PLAN
A-250 ROOF PLAN

A-400 ELEVATIONS
A-450 BUILDING SECTIONS AND DETAILS
A-460 TYPICAL - WALL & STAIRS SECTIONS
A-461 TYPICAL - WALL & DETAILS

A-500 TYPICAL - STAIRS PLAN & SECTION DETAILS

A-600 WASHROOM ENLARGED PLANS & ELEVATIONS
A-610 TYPICAL - SECTION DETAILS
A-611 TYPICAL - SECTION DETAILS

A-800 MILLWORK ELEVATIONS & SECTIONS

ARCHITECTURAL

(L+D)

LALANDE + DOYLE ARCHITECTS INC.,
www.lplusd.com

Tel 613.233.2900
Fax 613.233.1008

159 Holland Ave.
Ottawa, Ontario K1Y 0Y2

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2025-07-17

PULSE SOCIETIES LTD.
ORLEANS DEVELOPMENT

1108 Maisonneuve Street, Orleans (Ottawa), ON

1. GENERAL

1.1. THE PRESENT ABRIDGED SPECIFICATIONS AS WELL AS THE NOTES ON THE PLANS SET OUT THE GUIDELINES FOR THE EXECUTION OF THE WORK AND LIST IN A GENERAL WAY THE REQUIRED MATERIAL. THE WORK MUST BE PERFORMED PROFESSIONALLY TO UPHOLD THE HIGHEST STANDARDS OF THE INDUSTRY.

1.2. UNLESS OTHERWISE INSTRUCTED, SUPPLY THE LABOUR, MATERIALS AND TOOLS REQUIRED TO PERFORM DEMOLITION AND CONSTRUCTION WORK. CARRY OUT WORK NOT LISTED BUT IMPLICITLY NECESSARY FOR THE COMPLETE REALIZATION OF THE PROJECT.

1.3. THE TERM CONTRACTOR MEANS GENERAL CONTRACTOR.

1.4. UNLESS OTHERWISE DIRECTED, ALL INSTRUCTIONS OF THE PRESENT ABRIDGED SPECIFICATIONS ARE INTENDED FOR THE GENERAL CONTRACTOR. CHECK THE CONDITION OF THE PREMISES, THE NATURE OF THE WORK TO BE PERFORMED, THE REQUIREMENTS REGARDING THE CONTRACT AND ITS EXECUTION. CLOSELY EXAMINE THE PLANS TO LOOK INTO ALL LOCAL CONDITIONS THAT MAY AFFECT THE PERFORMANCE OF THE CONTRACT, AS SET OUT IN THE TENDER DOCUMENTS BEFORE THE BIDDING. NO ADDITIONAL AMOUNT SHALL BE GRANTED FOR EXISTING CONDITIONS WHICH MAY BE ACKNOWLEDGED DURING THE BIDDING PROCESS.

1.5. NO ADDITIONAL AMOUNT SHALL BE GRANTED FOR WORK PERFORMED WHICH IS NOT REQUIRED BY THESE DOCUMENTS WITHOUT THE OWNER'S PRIOR AUTHORIZATION.

1.6. ASSUME ALL OBLIGATIONS AND RESPONSIBILITIES ASSIGNED TO THE "PRINCIPAL CONTRACTOR" UNDER THE ACT RESPECTING OCCUPATIONAL HEALTH AND SAFETY.

1.7. OBTAIN ALL PERMITS, INCLUDING THE BUILDING PERMIT, THE LICENSES, PATENTS AND CERTIFICATES NECESSARY TO PERFORM THE WORK. THE CONTRACTOR MUST COMPLY WITH AND ENFORCE PROVINCIAL, FEDERAL AND MUNICIPAL LAWS, BY-LAWS, REGULATIONS, ORDERS, DECREES, CODES AND COLLECTIVE AGREEMENTS AFFECTING THE CONSTRUCTION AND THE LABOUR FORCE. PERFORM WORK IN COMPLIANCE WITH THE ONTARIO BUILDING CODE.

1.8. UNLESS OTHERWISE INSTRUCTED, ALL ELEMENTS ARE GUARANTEED ONE (1) YEAR FROM PROVISIONAL ACCEPTANCE OF WORK.

2. REGULATORY REQUIREMENTS:
2.1. DOORS & WINDOWS: TO CONFORM TO OBC 9.6 AND 9.7)
2.1.1. ALL WINDOWS NEED CONFORM WITH OBC 3.3.4.8 AND BE EQUIPPED WITH A CONTROL SASH TO RESTRICT OPENING TO A MAXIMUM OF 4".
2.1.2. ENSURE THAT PROVISIONS FOR RESISTANCE TO FORCED ENTRY ARE PROVIDED IN CONFORMANCE WITH OBC 9.6.8 AND 9.7.6.
2.1.3. WINDOWS AND SLIDING GLASS DOORS MUST CONFORM TO CAN/CSA A440-2 AND OBC 12.3.1.3.
2.1.4. THERMAL RESISTANCE OF DOORS TO CONFORM TO OBC 12.3.2.7.

3. COORDINATION AND USE OF THE SITE
3.1. COORDINATE THE START-UP OF THE WORK WITH THE OWNER. INFORM THE OWNER AT LEAST 48 HOURS BEFORE UNDERTAKING THE WORK.
3.2. CHECK ALL DIMENSIONS ON THE SITE BEFORE STARTING THE WORK. ASSUME RESPONSIBILITY FOR THE DIMENSIONS MEASURED FROM THE PLANS. IMMEDIATELY INFORM THE ARCHITECT OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE SITE.
3.3. BEFORE UNDERTAKING THE WORK, REMOVE ALL SIGNS AND NAME PLATES AND DELIVER THEM TO THE OWNER.
3.4. ARCHITECTURAL PLANS PREVAIL OVER MECHANICAL AND ELECTRICAL PLANS REGARDING THE LOCATION OF MECHANICAL AND ELECTRICAL EQUIPMENT. MECHANICAL AND ELECTRICAL PLANS PREVAIL IN TERMS OF EQUIPMENT QUANTITY AND SPECIFICATIONS.
3.5. WHERE SEVERAL CONTROLS MUST BE INSTALLED IN THE SAME ROOM (THERMOSTATS, SWITCHES, ETC), ALIGN AND REGROUP THE LATTER ON THE SAME WALL.
3.6. COORDINATE THE WORK WITH THAT OF OTHER CONTRACTORS AND ENSURE CONTINUITY WITH THE WORK OF OTHER CONTRACTORS.
3.7. LIMIT ACTIVITIES TO WORKING AREAS. STORE TOOLS AT THE END OF EACH WORKING DAY. TAKE ALL NECESSARY MEASURES TO PROTECT ADJACENT AREAS, INCLUDING CORRIDORS AND STAIRCASES, FROM ANY DUST AND DEBRIS.
3.8. FROM TIME TO TIME DURING THE WORK AND UPON COMPLETION OF WORK, CLEAN WORKING AREAS OF ANY DEBRIS. PROVIDE FOR WASTE CONTAINERS FOR THE DISPOSAL OF THE DEBRIS. SUPPLY THE TOOLS AND PERSONNEL NECESSARY FOR CLEANING THE SITE.

4. PRODUCTS
4.1. PROVIDE NEW MATERIAL, IN GOOD CONDITION AND OF MAXIMUM AVAILABLE DIMENSIONS, UNLESS OTHERWISE INSTRUCTED.
4.2. KEEP NEW ELEMENTS AS WELL AS EXISTING ELEMENTS TO BE PRESERVED IN GOOD CONDITION UNTIL ACCEPTANCE OF THE WORK BY THE OWNER. INSTALL NAMELY, BUT WITHOUT LIMITATION, A PROTECTION ON FLOOR FINISHES AND ON NEW AND EXISTING MILLWORK ELEMENTS. REPLACE ANY ELEMENT DAMAGED DURING THE WORK WITHOUT COST TO THE OWNER.
4.3. BRAND SPECIFICATION IS FOR INFORMATION PURPOSES ONLY. NEVERTHELESS, THE CONTRACTOR IS TO SUBMIT A WRITTEN REQUEST FOR EQUIVALENCY AT LEAST TEN (10) DAYS BEFORE BID CLOSING. REQUESTS FOR EQUIVALENCY SUBMITTED AFTER BID OPENINGS AND ANALYSES WILL BE REJECTED.
4.4. PROVIDE SHOP DRAWINGS AND TECHNICAL DATA SHEETS FOR ALL MANUFACTURED OR CUSTOM-MANUFACTURED PRODUCTS, INCLUDING, BUT WITHOUT LIMITATION: FABRICATED METALS, MILLWORK, DOORS, FRAMES, HARDWARE, FLOOR COVERINGS, POWER EQUIPMENT AND ELECTRIC APPARATUS. COORDINATE THE SUBMISSION OF DOCUMENTS OR SAMPLES REQUIRED IN ACCORDANCE WITH WORK AND CONTRACTUAL DOCUMENT REQUIREMENTS. IDENTIFY ADEQUATELY ALL DOCUMENTS SUBMITTED.
4.5. THE ARCHITECT WILL REVIEW THE SHOP DRAWINGS ONLY TO ENSURE THEIR COMPLIANCE WITH THE GENERAL CONCEPT. THE REVIEW DOES NOT RESULT IN THE AUTOMATIC APPROVAL BY THE ARCHITECT OF THE DETAILED CONCEPTION RELATED TO THE SHOP DRAWINGS. THE CONTRACTOR WHO SUBMITS THE SHOP DRAWINGS REMAINS THE SOLE PERSON RESPONSIBLE. SUCH REVIEW DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PREVENT ANY ERROR OR OMISSION ON THE SHOP DRAWINGS OR TO COMPLY WITH CONSTRUCTION AND CONTRACTUAL DOCUMENT REQUIREMENTS. WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, THE CONTRACTOR IS RESPONSIBLE FOR THE DIMENSIONS TO BE CONFIRMED AND CORRELATED ON THE SITE, THE MANUFACTURING PROCEDURES OR THE CONSTRUCTION AND INSTALLATION TECHNIQUES AS WELL AS THE COORDINATION OF THE WORK WITH ALL SUB-CONTRACTORS.

5. CUTTING, DRILLING AND PATCHING

5.1. NO DRILLING IS TO BE PERFORMED WITHOUT THE OWNER'S AUTHORIZATION.
5.2. CUT RIGID MATERIALS WITH A MASONRY SAW OR A CORE DRILL. IT IS FORBIDDEN TO USE PNEUMATIC OR HAMMER TOOLS ON MASONRY OR CEMENT STRUCTURES WITHOUT PRIOR AUTHORIZATION.
5.3. REPAIR ALL WORK WITH NEW PRODUCTS, PURSUANT TO CONTRACTUAL DOCUMENT REQUIREMENTS.
5.4. ADJUST THE CONSTRUCTION TIGHTLY AROUND CONDUITS, COUPLERS, AIR AND ELECTRICAL DUCTS AS WELL AS OTHER ELEMENTS TRAVERSING WALL, CEILING OR FIRE RATED FLOORS OPENINGS. SEAL COMPLETELY THE SPACES AROUND OPENINGS WITH FIRE STOPPING OR ACOUSTIC MATERIALS, DEPENDING ON THEIR LOCATION, THROUGH THE TOTAL THICKNESS OF THE PIERCED ELEMENT.
5.5. FINISH SURFACES TO ENSURE UNIFORMITY WITH ADJACENT FINISH COATINGS. FINISH CONTINUOUS SURFACES UP TO THE CLOSEST INTERSECTION BETWEEN TWO ELEMENTS AND REFINISH COMPLETELY WHEN THERE IS A GROUPING OF ELEMENTS.
5.6. SEAL THE OPENINGS, INCLUDING CONCEALED SPACE OPENINGS, AND PATCH SURFACES AS PER EXISTING AFTER THE ENTIRETY OF THE WORK, INCLUDING, BUT WITHOUT LIMITATION, DEMOLITION, ELECTRICAL AND MECHANICAL WORK.

6. ROOFING - MODIFIED BITUMINOUS
6.1. BASE SHEET: ROOFING MEMBRANE COMPOSED OF SBS MODIFIED BITUMEN AND A NON-WOVEN POLYESTER REINFORCEMENT. BOTH SIDES ARE COVERED WITH A THERMOFUSIBLE PLASTIC FILM. THE SURFACE MUST BE MARKED WITH THREE (3) CHALK LINES TO ENSURE PROPER ROLL ALIGNMENT.
6.1.1. ACCEPTABLE PRODUCT: HENRY G100 - MODIFIEDPLUS G100 SERIES BASE SHEETS, OR APPROVED EQUIVALENT.
6.2. FLASHINGS: MEMBRANE COMPOSED OF SBS MODIFIED BITUMEN AND COMPOSITE HEAVY DUTY NON-WOVEN POLYESTER GLASS MAT REINFORCEMENT. BOTH SIDES ARE COVERED WITH A THERMOFUSIBLE PLASTIC FILM. THE SURFACE SHALL BE MARKED WITH THREE (3) CHALK LINES TO ENSURE PROPER ROLL ALIGNMENT.
6.2.1. ACCEPTABLE PRODUCT: HENRY, OR APPROVED EQUIVALENT
6.3. CAP SHEET: ROOFING MEMBRANE COMPOSED OF SBS MODIFIED BITUMEN WITH A NON-WOVEN POLYESTER REINFORCEMENT AND ELASTOMERIC BITUMEN WITH FLAME-RETARDING AGENT. THE SURFACE IS PROTECTED BY COLOURED GRANULES. THE UNDERFACE IS COVERED WITH A THERMOFUSIBLE PLASTIC FILM.
6.3.1. ACCEPTABLE PRODUCT: HENRY MODIFIEDPLUS NP250 POLY CAP SHEETS, OR APPROVED EQUIVALENT

7. MASONRY
7.1. REFERENCE STANDARDS: EXCEPT IF OTHERWISE INDICATED, EXECUTE MASONRY WORK IN COMPLIANCE WITH CAN3-A370 AND CAN3-A371 STANDARDS. EXCEPT IF OTHERWISE INDICATED, PREPARE MASONRY MORTAR AND GROUT IN COMPLIANCE WITH CSA A179 STANDARD.
7.2. CONCRETE INTERIOR STONE WALL MORTAR: CLASS N MORTAR AND GROUT, ACCORDING TO SPECIFICATIONS OF CSA A179 STANDARD; REFERENCE PRODUCT: BLOC MIX BY DAUBOIS INC.
7.3. HOLLOW TYPE CONCRETE BLOCKS:
7.3.1. AUTOCLAVE OR ATMOSPHERIC PRESSURE CURED, IN COMPLIANCE WITH CAN3-A165.1 STANDARD, CLASSIFICATION: H/15A/M, MODULAR DIMENSION OR AS IS. SPECIAL DESIGN BLOCKS, SPECIAL BLOCKS FOR LINTELS AND BEAMS. UNLESS OTHERWISE SPECIFICALLY INSTRUCTED, BUILD PARTITIONS UP TO SUPERIOR SLAB BY LEAVING A SPACE OF 1/2" FOR THE DEFLECTION OF THE SLAB AND SEAL THE JOINT.

7.4. FACE BRICK:
7.4.1. BURNED CLAY BRICK: TO CAN / CSA A82.1
7.4.2. TYPE: FBS, FBX OR FBA.
7.4.3. GRADE: SW
7.4.4. SIZE: METRIC MODULAR (190MM X 57MM HIGH X 90MM DEEP)
7.4.5. COLOUR AND TEXTURE: TO BE SELECTED BY CONSULTANT.

7.5. LINTELS FOR CONCRETE MASONRY:
7.5.1. INSTALL LINTEL BLOCKS, WITH CONCRETE AND REINFORCEMENT, ABOVE OPENINGS IN BLOCK WALLS, WHEN THE OPENING WIDTH IS EQUAL TO OR NARROWER THAN 54"; END SUPPORT: 8" MINIMUM.
7.5.2. INSTALL LINTELS MADE OF 2 STEEL ANGLES WELDED BACK-TO-BACK, WHEN THE OPENING WIDTH IS LARGER THAN 54".

7.6. REINFORCEMENT AND ANCHORAGE:
7.6.1. VERTICAL REINFORCEMENT: EXCEPT IF INDICATED, CALCULATE VERTICAL REINFORCEMENT IN COMPLIANCE WITH OBC REQUIREMENTS AND CSA S302.1-94 STANDARD.
7.6.2. CONCRETE BLOCK HORIZONTAL REINFORCEMENT: IN COMPLIANCE WITH CAN3-A371 STANDARD, LACED, PART PREFABRICATED FOR "T" AND "L" INTERSECTIONS, DIAMETER OF THE RODS 1/8"; REFERENCE PRODUCT: D/A310 BY DUR-O-WAL OR APPROVED EQUIVALENT.
7.6.3. POSITION REINFORCEMENT HORIZONTALLY AT 16" C/C VERTICALLY, THROUGHOUT BLOCK MASONRY AND AT REQUIRED LOCATIONS;
7.6.4. ANCHORS TO STRUCTURAL COLUMNS FOR CONCRETE BLOCK MASONRY: ALLOWING FOR CONTROLLED MOVEMENTS; REFERENCE PRODUCT, D/A 2200 BY DUR-O-WAL OR APPROVED EQUIVALENT. EXCEPT IF INDICATED IN STRUCTURE DRAWINGS, ANCHOR BLOCK WALLS TO COLUMNS WITH ANCHORS SCREWED TO THE LATTER EVERY 16".

REINFORCEMENT AND ANCHORAGE MATERIALS: HOT-DIP GALVANIZED STEEL (460 G/M2), EXCEPTED FOR REINFORCEMENT BARS.

7.7. HUMIDITY BARRIERS: PVC MEMBRANE OF 0,5 MM TO BE INSTALLED BEFORE PERFORMING ANY MASONRY WORK IN CONTACT WITH A SLAB ON GROUND, CROSS JOINTS OF 2"; REFERENCE PRODUCT: SEALTIGHT FLEX-GUARD BY W.R. MEADOWS OF CANADA LTD. OR APPROVED EQUIVALENT.

7.8. CONTRACTION JOINTS: INSTALL CONTINUOUS JOINT BASES FOR CONTRACTION JOINTS AT INDICATED LOCATIONS OR AT 7,24" C/C MAXIMUM. RESILIENT BOARD CONSTITUTED OF ELASTOMER AND MANUFACTURED FOR SUCH PURPOSE, IN REQUIRED DIMENSIONS AND FORMS, SUCH AS CERAMAR BY W.R. MEADOWS OF CANADA LTD. OR APPROVED EQUIVALENT.

8. PREFINISHED ALUMINUM CLADDING:
8.1. REFERENCE PRODUCT: MAIBEC INC., 4000 JEAN-MARCHAND STREET, UNIT 108, QUEBEC CITY, QUEBEC CANADA G2C 1Y6. WWW.MAIBEC.COM .
8.2. EXTRUDED ALUMINUM: 6063-T5 ALLOY IN ACCORDANCE WITH ASTM B221.
8.3. "F" PROFILE: FLAT
8.3.1. 8-F; EXPOSED FACE: 8 INCHES (7.6 INCHES ACTUAL)
8.3.2. MINIMUM METAL THICKNESS: 0.090 INCH
8.3.3. PLANK LENGTH: 16 FEET
8.4. ALL EXTRUDED ALUMINUM PLANKS' PROFILES ARE COMPLETE WITH A SET OF 1.5" X 0.187" FACTORY PUNCHED OBLONG SCREW HOLES, REPEATED EVERY 8", AND COMPLETE WITH AN EXTRUDED "T" SHAPE REINFORCEMENT ON THE BACK.
8.5. ACCESSORIES:
8.5.1. EXTRUDED ALUMINUM ACCESSORIES: ONE PIECE TRIM, 12 FEET LENGTH
8.5.2. STARTER STRIP
8.5.3. EXTRUDED ALUMINUM ACCESSORIES: TWO (2) PIECES TRIM, 12 FEET LENGTH
8.5.4. J-TRIM - 1 INCH AND J-TRIM - 1-3/4 INCH FOR OUTSIDE CORNERS.
8.5.5. H-TRIM FOR INSIDE CORNERS
8.6. FLASHING: PROVIDE ALUMINUM FLASHING COMPLYING WITH SECTION 07 62 00 "SHEET METAL FLASHING AND TRIM" AT SILL, WINDOW AND DOOR HEADS AND WHERE INDICATED.
8.7. FASTENERS: 1-1/2 INCHES LENGTH, #8 STAINLESS STEEL SCREW OR OTHER TYPES WITH CORROSION RESISTANCE SUITABLE FOR THE SUBSTRATE APPLICATION AND TO CONDITIONS AND ENVIRONMENTAL EXPOSITION, SUPPLIED BY OTHER MANUFACTURERS. CLIP FASTENERS ARE NOT ACCEPTABLE.

8.8. DIGITALLY PRINTED FINISH:
8.8.1. PRIMER COAT: HIGH QUALITY WHITE UV COATING APPLIED TO ALUMINUM.
8.8.2. DIGITAL PRINTED INKJET COATING.
8.8.3. UV BARRIER: PROTECTIVE CLEAR COAT FOR UV PROTECTION AGAINST FADING.
8.8.4. STYLE AND COLOUR TO MATCH MAIBEC ARCHITECTURAL ALUMINUM - STYLE AND COLOUR TO BE SELECTED BY OWNER.

9. HIGH DENSITY CEMENTITIOUS WALL PANELS

9.1. REFERENCE PRODUCT: SWISS PEARL BY CLADDING CORP: WWW.CLADDINGCORP.COM ; (888)826-8453.

9.2. SWISSPEARL FIBRE CEMENT PANEL
9.2.1. PANEL THICKNESS: 5/16"
9.2.2. COLOUR: AS SELECTED BY OWNER
9.2.3. PANEL SIZE: AS SHOWN ON ARCHITECTURAL DRAWINGS MAXIMUM PANELS SIZE OF 4' X 10' (1250MM X 3050MM).
9.3. PANELS MADE WITH:
9.3.1. PORTLAND CEMENT (GREATER THAN 70% OF COMPOSITION)
9.3.2. POLYVINYL ALCOHOL FIBRES (PVA)
9.3.3. HIGH PERFORMANCE FINISH ON ALL SIX SIDES (FACE, REAR, AND ALL EDGES)
9.3.4. ASTM C1186 AT TYPE A GRADE IV FIBRE-CEMENT BOARDS, PANELS MUST BE AIR CURED FOR A MINIMUM OF 4 WEEKS
9.3.1. THE FOLLOWING CHARACTERISTICS ARE NOT ACCEPTABLE: AUTOCLAVED PRODUCTS
9.3.2. PRODUCTS REINFORCED WITH ONLY WOOD/CELLULOSE FIBRES
9.3.3. EFFLORESCENCE
9.3.4. COMBUSTIBLE PRODUCTS WITHOUT ASTM E 136 APPROVAL
9.3.5. COLOUR CHANGE GREATER THAN E 2.0 PER ASTM G155

9.4. PANEL FASTENING: EXPOSED: FASTENERS - RIVETS COLOUR MATCH TO PANEL. PROVIDE PANELS AND PANEL FASTENERS FROM A SINGLE SOURCE.

9.5. VENTILATION REQUIREMENTS
9.5.1. PANELS SHALL BE REAR VENTILATED WITH A CONTINUOUS VENTILATION CAVITY.
9.5.2. CLADDING HEIGHTS LESS THAN 20FT REQUIRE MINIMUM ¾" CONTINUOUS VENT CAVITY.
9.5.3. CLADDING HEIGHTS MORE THAN 20FT, BUT LESS THAN 100FT, REQUIRE MINIMUM 1-1/4" CONTINUOUS VENT CAVITY.
9.5.4. CLADDING HEIGHTS 100FT OR GREAT REQUIRE MINIMUM 1-3/4" CONTINUOUS VENT CAVITY.
9.5.5. ALL BASE, TOP, SILL, AND HEAD CONDITIONS MUST HAVE MINIMUM ¾" CLEARANCE FROM PANEL EDGE AND PANEL FACE TO ENSURE PROPER VENTILATION.
9.5.6. VENTILATION CAVITY WITH PERFORATED HORIZONTAL PROFILES
9.5.7. MINIMUM VENTILATION GAP TO BE 1.5". HORIZONTAL PROFILES SHOULD ALLOW MINIMUM 75% AIRFLOW. CONTINUOUS, NON-PERFORATED, HORIZONTAL PROFILES AT NOT ALLOWED

10. ROUGH CARPENTRY

10.1. PROVIDE AND INSTALL NAILERS INSIDE NEW PARTITIONS TO SUPPORT MILLWORK ACCESSORIES AND UNITS. USE 1/2" PLYWOOD. CANADIAN SOFTWOOD PLYWOOD: IN COMPLIANCE WITH CSA 0151 STANDARD, STANDARD CONSTRUCTION GRADE, FOR INDOOR USE ONLY.

10.2. PROVIDE AND INSTALL SUBFRAMES AND TRIMS AROUND DOOR AND WINDOW OPENINGS TO ENSURE FRAME SUPPORT, AS INDICATED.

11. STAIRS:
11.1. IN CONFORMANCE WITH OBC SECTION 9.8
11.2. STAIR WIDTH AS PER OBC 9.8.2.1
11.3. STAIRS, RISERS AND TREADS DIMENSIONS: AS DETAILED
11.4. MINIMUM HEADROOM 6'-9" AS PER OBC 9.8.2.2
11.5. PROVIDE HANDRAILS AT STAIRS IN ACCORDANCE WITH OBC 9.8.7 AND AS DETAILED.

12. GUARDRAILS:
12.1. MANUFACATURED WOOD OR METAL GUARDS, RAILINGS AND STAIRS SHALL BE IN CONFORMANCE WITH OBC 4.1.19.1 AND 3.4.6.4(9), AND MUST BE CERTIFIED BY THE MAUNFACTURER'S PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.

13. MILLWORK

13.1. REFERENCE STANDARDS: EXCEPT IF INDICATED, MILLWORK IN COMPLIANCE WITH APPLICABLE STANDARDS OF THE ARCHITECTURAL WOODWORK MANUFACTURERS ASSOCIATION OF CANADA (AWMAC).

13.2. SHOP DRAWINGS AND SAMPLES: SHOP DRAWINGS TO INDICATE CONSTRUCTION AND ASSEMBLY DETAILS, PROFILES, FASTENERS AND OTHER RELATED DETAILS; ALSO, SHOP DRAWINGS TO INDICATE MATERIALS, FINISHES, HARDWARE, OPENINGS REQUIRED FOR EMBEDMENT OR CONNECTION OF MECHANICAL AND ELECTRICAL EQUIPMENT AND NETWORKS, ANCHORS AND EXPOSED FASTENERS.

13.3. SAMPLES: SUBMIT A 8" X 8" PANEL FOR EACH FINISH, SUBMIT DUPLICATE OF EACH HARDWARE ITEM.

13.4. HARDWOOD: MOISTURE CONTENT AS SET OUT IN FINISH LEGEND, WITHOUT JOINTED ELEMENTS, NOT EXCEEDING 9% IN COMPLIANCE WITH STANDARDS OF THE NATIONAL HARDWOOD LUMBER ASSOCIATION (NHLA).

13.5. CANADIAN SOFTWOOD PLYWOOD: IN COMPLIANCE WITH CAN/CSA-0151 STANDARD, STANDARD CONSTRUCTION GRADE.

13.6. MEDIUM DENSITY FIBREBOARDS: IN COMPLIANCE WITH ANSI A208.2 STANDARD, FOR INDOOR USE ONLY, MD CLASSIFICATION.

13.7. MELAMINE COMPONENT BOARDS: PRESSURIZED PARTICLE BOARDS FOR INDOOR USE ONLY: IN COMPLIANCE WITH CAN3-0188.1 STANDARD, MELAMINE FINISH ON BOTH FACES, COLOUR AND FINISH AS SELECTED BY ARCHITECT, FINISH PANEL EDGES WITH LAMINATED PLASTIC STRIPS MATCHING THE PANELS.

13.8. PARTICLE BOARDS: PRESSURE MADE PANEL FOR INDOOR USE ONLY: IN COMPLIANCE WITH CAN3-0188.1 STANDARD.

13.9. LAMINATED PLASTIC: IN COMPLIANCE WITH CAN3-A172 STANDARD, GRADE: GENERAL USE, 1.15 MM THICK.

13.10. HARDWARE:
13.10.1. HANDLES (ON EVERY DOOR AND DRAWER): RICHELIEU, 39965, COLOUR 195.
13.10.2. HINGES: BLUM, CLIP 170, 170□ OPENING;
13.10.3. DRAWER SLIDES: RICHELIEU/ACCURIDE, SERIES 3832;
13.10.4. LOCKS: RICHELIEU/DOM, 313-15*-140, 21-05-57 ANGULAR STRIKE PLATES, ALL LOCKS OF ONE ROOM ON SAME KEY, DIFFERENT KEY FOR EACH ROOM, 3 DUPLICATES OF EACH KEY.
13.10.5. SILENCER BUMPERS: SELF-ADHESIVE, TRANSPARENT NYLON, RICHELIEU, MP590, 420-11.

13.11. NAILS AND CLIPS: IN COMPLIANCE WITH CSA B111 STANDARD.

13.12. WOOD SCREW: IN COMPLIANCE WITH CSA B33.4 STANDARD.

13.13. ADHESIVES: AS PER MANUFACTURER'S RECOMMENDATIONS.

13.14. CABINETS: AWMAC CUSTOM.

13.15. DRAWERS: AWAMC CUSTOM.

13.16. SHELVES: AWMAC CUSTOM.

13.17. COUNTERTOPS: EXCEPT IF INDICATED: SOFTWOOD PLYWOOD OF 19 MM, PLASTIC LAMINATE, 1.15 MM, WITH SOLID WOOD EDGES, AS INDICATED.

13.18. FINISH ALL EXPOSED WOOD SURFACES WITH A PLASTIC LAMINATE FINISH.

13.19. APPLY PLASTIC LAMINATE BALANCING SHEET ON ALL UNEXPOSED SURFACES OF PANELS WHICH OPPOSITE SIDE IS FINISHED WITH PLASTIC LAMINATE.
13.20.
13.21. POSITION ITEMS OF PREFINISHED CARPENTRY WORK ACCURATELY, LEVEL, PLUMB AND FASTEN OR
13.22.
13.23. ANCHOR SECURELY AS INDICATED IN DRAWINGS. SUPPLY AND INSTALL HEAVY-DUTY FASTENERS TO HOLD WALL-MOUNTED CABINETS. USE DRAW BOLTS FOR COUNTERTOP JOINTS.
13.24.
13.25. APPLY A THREAD OF SEALANT IN JOINTS SEPARATING LAMINATED SPLASHBOARD AND ADJACENT WALL FINISH.

CLIENT

PROJECT NORTH

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LALANDE + DOYLE ARCHITECTS INC.
www.ldarch.com
Tel 613.233.2900
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MECHANICAL + ELECTRICAL

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DATE	DESCRIPTION	ISSUE	REV.
17/07/2025	REISSUED FOR PERMIT	2	
09/07/2025	ISSUED FOR CONSTRUCTION	2	
12/03/2025	ISSUED FOR PERMIT	2	
27/02/2025	ISSUED FOR REVIEW	1	

PROJECT NAME

PULSE SOCIETIES LTD.

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve Street, Ottawa, ON K1C 1L1

DRAWING TITLE

ABBREVIATED SPECIFICATIONS

DATE 09.08.2024

PROJECT NO. 24-002C

SCALE AS NOTED

DRAWN BY BR

DRAWING NO. A-001

REVIEWED BY LCL

1. FIRE RETARDANT SEALANTS

1.1. USE FIRE STOPPING AND SMOKE BLOCKING SYSTEMS AT THE FOLLOWING LOCATIONS AND AT ANY OTHER LISTED OR REQUIRED LOCATION:
1.2. PENETRATIONS THROUGH FIRE-RESISTANCE RATED MASONRY, CONCRETE AND GYPSUM BOARD PARTITIONS AND WALLS;
1.3. TOP OF FIRE-RESISTANCE RATED MASONRY AND GYPSUM BOARD PARTITIONS;
1.4. INTERSECTION OF FIRE-RESISTANCE RATED MASONRY AND GYPSUM BOARD PARTITIONS;
1.5. CONTROL AND SWAY JOINTS IN FIRE-RESISTANCE RATED MASONRY AND GYPSUM BOARD PARTITIONS AND WALLS;
1.6. PENETRATIONS THROUGH FIRE-RESISTANCE RATED FLOOR AND CEILING SLABS;
1.7. OPENINGS AND SLEEVES INSTALLED FOR FUTURE USE THROUGH FIRE SEPARATIONS;
1.8. AROUND MECHANICAL AND ELECTRICAL ASSEMBLIES PENETRATING FIRE SEPARATIONS.
1.9. INSTALL FIRE RETARDANT AND SMOKE BLOCKING MATERIAL AND COMPONENTS IN COMPLIANCE WITH ULC CERTIFICATION AND MANUFACTURER'S INSTRUCTIONS.
1.10. FIRE RETARDANT AND SMOKE BLOCKING SYSTEMS: IN COMPLIANCE WITH CAN4-S115 STANDARD AND THE FOLLOWING PRESCRIPTIONS:
1.11. ASBESTOS-FREE MATERIALS AND SYSTEMS CAPABLE OF MAINTAINING AN EFFECTIVE BARRIER AGAINST FLAME, SMOKE, AND GASES IN COMPLIANCE WITH REQUIREMENTS OF CAN4-S115 STANDARD AND NOT TO EXCEED OPENING SIZES FOR WHICH THEY ARE INTENDED;
1.12. FIRE RESISTANCE RATING OF INSTALLED FIRE-RETARDANT ASSEMBLY: NOT INFERIOR TO THAT OF PENETRATED ELEMENT.
1.13. ELEMENT OF COMPOSITE MATERIALS BY TECHNICAL CONDUITS TO BE TRAVERSED: ULC CERTIFIED IN COMPLIANCE WITH CAN4-S115 STANDARD AND LISTED IN ULC GUIDE NO. 40 U19.15 AND 40 U19 UNDER THE LABEL SERVICE OF ULC.
1.14. FIRE RETARDANT AND SMOKE SEALS AT OPENINGS INTENDED FOR EASE OF RE-ENTRY: ELASTOMERIC SEAL. NEITHER USE CEMENTING MATERIAL JOINTS NOR RIGID JOINTS AT SUCH LOCATIONS.
1.15. FIRE RETARDANT AND SMOKE SEALS AT OPENINGS AROUND PENETRATIONS FOR PIPES, DUCTWORK AND OTHER MECHANICAL ITEMS REQUIRING SOUND AND VIBRATION CONTROL: ELASTOMERIC SEAL. NEITHER USE CEMENTING MATERIAL JOINTS NOR RIGID JOINTS AT SUCH LOCATIONS.
1.16. FIRE RETARDANT AND SMOKE SEALS FOR JOINTS BETWEEN TOP OF GYPSUM OR CONCRETE PARTITIONS AND DECKING OR SUPERIOR SLAB: ULC CERTIFIED SYSTEMS PURSUANT TO HW21, HW22, HW23 OR HW24 TRIALS AND MADE OF THE FOLLOWING ELEMENTS:
1.17. MINERAL WOOL, 128 KG/M3 DENSITY;
1.18. LIQUID VAPORIZING FIRE RESISTANT LEVELLING COAT, WATER-BASED, SUCH AS FIREDAM SPRAY BY 3M OR APPROVED EQUIVALENT.
1.19. PRIMERS: SPECIFIC TO MANUFACTURER'S RECOMMENDATIONS.

2. SEALANTS

2.1. SEALANTS FOR WALLS, OTHER THAN GYPSUM BOARD WALLS, WITHOUT FIRE OR SMOKE RESISTANCE OR ACOUSTIC PROPERTIES: SINGLE-COMPONENT, ELASTOMERIC, CHEMICAL POLYMERIZATION, IN COMPLIANCE WITH CAN/CGSB-19.13 STANDARD. REFERENCE PRODUCT: DYMONIC BY TREMCO OR APPROVED EQUIVALENT.
2.2. SEALANTS FOR GYPSUM BOARD SURFACES, WITHOUT FIRE OR SMOKE RESISTANCE OR ACOUSTIC PROPERTIES: SINGLE-COMPONENT, LATEX EMULSION-BASED WITH ACRYLIC RESINS, IN COMPLIANCE WITH CAN/CGSB-19.17 STANDARD. REFERENCE PRODUCT: LATEX 10 YEARS BY MULCO INC. OR APPROVED EQUIVALENT.
2.3. SEALANTS FOR BUILT-IN FURNITURE AND WALL JUNCTIONS: SINGLE-COMPONENT, SILICON-BASED, IN COMPLIANCE WITH CAN/CGSB-19.22 STANDARD. REFERENCE PRODUCT: SILICONE 25 YEARS BY MULCO INC. OR APPROVED EQUIVALENT.

3. STEEL DOOR AND FRAMES
3.1. MANUFACTURED BASED ON DETAILS PROVIDED AND IN COMPLIANCE WITH THE CANADIAN MANUFACTURING SPECIFICATIONS FOR METAL DOORS AND FRAMES, DOCUMENT PUBLISHED BY THE CANADIAN STEEL DOOR AND FRAME MANUFACTURERS ASSOCIATION (CSDFMA).
3.2. CUT, REINFORCE, PUNCH OUT AND TAP FRAMES WHERE REQUIRED TO ACCOMMODATE FOR MORTISE-MOUNTED HARDWARE ITEMS, REINFORCE FRAMES TO ACCOMMODATE FOR SURFACE-MOUNTED HARDWARE ITEMS. MINIMUM STAY PLATE THICKNESS: 1/8".
3.3. FRAMES WITH JOINTS WELDED AT THE PLANT AND DELIVERED IN ONE PIECE. CONTINUOUS WELDING, NO WELDING ON SITE.
3.4. FRAMES, GALVANIZED STEEL SHEET, IN COMPLIANCE WITH ASTM A527 STANDARD, ZINC COATING Z001, 16 CALIBRE.
3.5. EXTERIOR STEEL FRAMES TO BE THERMALLY BROKEN AND EQUIPPED WITH WEATHERSTRIPPING.

4. DOOR CORE MATERIALS:
4.1. HONEYCOMB CONSTRUCTION:
4.2. STRUCTURAL SMALL CELL, 24.5 MM MAXIMUM KRAFT PAPER 'HONEYCOMB', WEIGHT: 36.3 KG PER REAM MINIMUM, DENSITY: 16.5 KG/M3 MINIMUM SANDED TO REQUIRED THICKNESS.
4.3. STIFFENED: FACE SHEETS LAMINATED WELDED, HONEYCOMB UNINSULATED INSULATED CORE.
4.4. FIBREGLASS: TO CAN/ULC S702, SEMI RIGID TYPE, DENSITY 24 KG/M3.
4.5. EXPANDED POLYSTYRENE: CAN/ULC S701, DENSITY 16 TO 32 KG/M3; SELF-EXTINGUISHING, NON-TOXIC.
4.6. POLYURETHANE: TO CAN/ULC S704 RIGID, MODIFIED POLY-ISOCYANURATE, CLOSED CELL BOARD; DENSITY 32 KG/M3.
4.7. TEMPERATURE RISE RATED (TRR): CORE COMPOSITION TO LIMIT TEMPERATURE RISE ON UNEXPOSED SIDE OF DOOR TO 250OC AT 30 60 MINUTES. CORE TO BE TESTED AS PART OF A COMPLETE DOOR ASSEMBLY, IN ACCORDANCE WITH CAN4 S104, ASTM E152 OR NFPA 252, COVERING STANDARD METHOD OF TESTS OF DOOR ASSEMBLIES AND LISTED BY NATIONALLY RECOGNIZED TESTING AGENCY HAVING FACTORY INSPECTION SERVICE.

5. INTERIOR WOOD DOORS
5.1. 5-PLY STAVE LUMBER CORE WDMA EXTRA HEAVY DUTY SLC-5:
5.2. FACE PANELS: WDMA "PAINT" GRADE, FOR PAINT FINISH.
5.3. CORE: STAVE LUMBER WITH STAGGERED JOINTS.
5.4. CROSSBAND: COMPOSITE COMPLIANT WITH WDMA STANDARDS FOR IMPROVED PERFORMANCE.
5.5. VERTICAL EDGES: MATCHING. TWO-PIECE LAMINATED.
5.6. HORIZONTAL EDGES: WOOD -- CONFORMING TO WDMA STANDARDS.
5.7. 5 PLY CONSTRUCTION.
5.8. ADHESIVE: TYPE I STANDARD
5.9. FINISHES: WDMA-TR-6, TRANSPARENT

6. ADHESIVES
6.1. HONEYCOMB CORES AND STEEL COMPONENTS: HEAT RESISTANT, SPRAY GRADE, RESIN REINFORCED NEOPRENE/RUBBER (POLYCHLOROPRENE) BASED, LOW VISCOSITY, CONTACT CEMENT.
6.2. POLYSTYRENE AND POLYURETHANE CORES: HEAT RESISTANT, EPOXY RESIN BASED, LOW VISCOSITY, CONTACT CEMENT.
6.3. LOCK SEAM DOORS: FIRE RESISTANT, RESIN REINFORCED POLYCHLOROPRENE, HIGH VISCOSITY, SEALANT/ADHESIVE.
6.4. PRIMER: TOUCH UP PRIME CAN/CGSB 1.181.

7. PAINT
7.1. FIELD PAINT STEEL DOORS AND FRAMES IN ACCORDANCE WITH SECTIONS 09 91 23 INTERIOR PAINTING, 09 91 13 EXTERIOR PAINTING. PROTECT WEATHERSTRIPS FROM PAINT. PROVIDE FINAL FINISH SHALL BE FREE OF SCRATCHES OR OTHER BLEMISHES.

8. ACCESSORIES
8.1. DOOR SILENCERS: SINGLE STUD RUBBER/NEOPRENE TYPE.
8.2. EXTERIOR AND INTERIOR TOP AND BOTTOM CAPS: STEEL.
8.3. FABRICATE GLAZING STOPS AS FORMED CHANNEL, MINIMUM 16 MM HEIGHT, ACCURATELY FITTED, BUTTED AT CORNERS AND FASTENED TO FRAME SECTIONS WITH COUNTER SUNK OVAL HEAD SHEET METAL SCREWS.
8.4. DOOR HARDWARE: REFER TO DOOR SCHEDULE.
8.5. METALLIC PASTE FILLER: TO MANUFACTURER'S STANDARD.
8.6. FIRE LABELS: METAL RIVETED.
8.7. SEALANT: AS PER SPECIFICATIONS
8.8. GLAZING: AS PER SPECIFICATIONS.
8.9. MAKE PROVISIONS FOR GLAZING AS INDICATED AND PROVIDE NECESSARY GLAZING STOPS.
8.10. DESIGN EXTERIOR GLAZING STOPS TO BE TAMPERPROOF.

9. HARDWARE
9.1. REFERENCE STANDARDS: STANDARD POSITION OF HARDWARE MUST MEET REQUIREMENTS OF THE CANADIAN METRIC GUIDE FOR STEEL DOORS AND FRAMES (MODULAR CONSTRUCTION) PREPARED BY THE CANADIAN STEEL DOOR AND FRAME MANUFACTURERS ASSOCIATION.
9.2. TECHNICAL DATA SHEETS: SUBMIT FOR APPROVAL HARDWARE LIST, INCLUDING BRAND, MODEL, MATERIAL, FUNCTION, FINISH AND ANY OTHER RELEVANT INFORMATION.
9.3. WARRANTY: PROVIDE A CERTIFICATE, SIGNED AND IN THE NAME OF THE OWNER, GUARANTEEING THAT THE WORK OF THIS SECTION IS TO REMAIN FREE OF ANY DEFECT FOR A PERIOD OF TWO (2) YEARS, EXCEPT IF INDICATED, FOUR (4) YEARS FOR LOCKS AND FIVE (5) YEARS FOR DOOR CLOSERS.
9.4. THE HARDWARE LIST IS PROVIDED TO HELP ESTABLISH THE TYPE, FUNCTION, QUALITY AND MINIMAL WEIGHT OF THE ITEMS REQUIRED, BUT IS NOT TO BE INTERPRETED AS A LIST FOR QUANTITY. THE CONTRACTOR MUST VERIFY THE LIST AND THE PLANS AND PROVIDE ANY ADDITIONAL HARDWARE ITEM THAT IS NOT IN THE LIST BUT THAT IS REQUIRED TO COMPLETE DOOR INSTALLATION.
9.5. USE HARDWARE CERTIFIED AND LABELLED BY THE ULC FOR DOORS WITH FIRE RESISTANCE RATING AND EMERGENCY EXITS.
9.6. FASTENERS: PROVIDE FASTENERS REQUIRED FOR THE SMOOTH FUNCTIONING OF HARDWARE ITEMS. EXPOSED FASTENERS TO MATCH HARDWARE ITEM FINISH. USE FASTENERS MADE OF A MATERIAL COMPATIBLE WITH THE ONE THEY PENETRATE.
9.7. KEYS: ALL LOCKS TO BE SUBJECT TO A MASTER AND SECONDARY KEY SYSTEM ESTABLISHED WITH THE OWNER. PROVIDE SIX (6) DUPLICATES OF MASTER KEY, SIX (6) DUPLICATES OF SECONDARY KEY AND TWO (2) KEYS BY LOCK. STAMP CODE NUMBERS ON KEYS AND BARRELS.

10. GLASS
10.1. FLOAT GLASS: TO CAN/CGSB-12.3, SILVERING MIRROR GLAZING (SELECTED) GLAZING QUALITY, 1/4" THICK.
10.2. SHEET GLASS: TO CAN/CGSB-12.2, AA-SPECIAL SELECTED, 1/4" THICK.
10.3. SAFETY GLASS: TO CAN/CGSB-12.1, TRANSPARENT, 1/4", 1/2" AND 3/4" THICK.
10.3.1. TYPE 1-LAMINATED
10.3.2. TYPE 2-TEMPERED.
10.3.3. CLASS B-FLOAT
10.3.4. CATEGORY 1.
10.3.5. EDGE TREATMENT
10.4. SILVERED MIRROR GLASS: TO CAN/CGSB-12.5, 1/4" MM THICK.
10.4.1. TYPE 3B-LAMINATED.
10.5. SPANDREL GLASS: TO CAN/CGSB-12.9, COLOUR: COLOURED FILM TO CONSULTANT'S LATER SELECTION FROM MANUFACTURERS' FULL RANGE ON 1/4" THICK CLEAR GLASS WITH WHITE OPACIFIER.
10.5.1. TYPE 1-TEMPERED.
10.5.2. CLASS A-FLOAT.
10.5.3. STYLE 3-ORGANIC COATED.
10.5.4. FORM I-INSULATING GLASS UNIT.
10.5.5. LOW EMISSIVITY (LOW E) GLASS, 1/4" THICK

10.6. GLAZING TAPE: PREFORMED BUTYL TAPE, 10-15 HARDNESS, PAPER RELEASE, GREY COLOUR.
10.7. SETTING BLOCKS: NEOPRENE, SHORE "A" DUROMETER HARDNESS 80-90, DIMENSIONS TO SUIT INSTALLATION.

11. GYPSUM PARTITIONS
11.1. REFERENCE STANDARDS: GYPSUM PARTITIONS IN COMPLIANCE WITH CAN/CSA-A82.27 STANDARD, CGC MANUAL AND PLAN DETAILS.
11.2. SUBMIT FOR APPROVAL THE TRACED LAYOUT OF ALL PARTITIONS ON SITE BEFORE ERECTING PARTITIONS.
11.3. STANDARD BOARDS: IN COMPLIANCE WITH CAN/CSA-A82.27 STANDARD, TYPE X, THICKNESS INDICATED, 48" WIDE AND MAXIMUM PRACTICAL LENGTH. USE WATERPROOF GYPSUM BOARD ON ALL BATHROOM AND JANITOR CLOSET WALLS.
11.4. WATERPROOF BOARDS: TYPE X, IN COMPLIANCE WITH CAN/CSA-A82.27 STANDARD, THICKNESS INDICATED, 48" WIDE AND MAXIMUM PRACTICAL LENGTH. USE WATERPROOF GYPSUM BOARD ON ALL BATHROOM AND JANITOR CLOSET WALLS.
11.5. LIGHTWEIGHT CONCRETE BOARDS: SMOOTH, THICKNESS INDICATED, 36" WIDE PER MAXIMUM PRACTICAL LENGTH, ENDS SQUARE CUT, EDGES BEVELLED, ASBESTOS-FREE AND GYPSUM-FREE, MADE OF POLYMETISED-EMULSION-MODIFIED CEMENT AND POLYSTYRENE PELLETS, REINFORCED ON BOTH FACES WITH A GLASS FIBRE MAT COATED WITH VINYL, AND WITH THE FOLLOWING PHYSICAL PROPERTIES. LIGHTWEIGHT CONCRETE PANEL ON ALL WALLS TO HAVE CERAMIC TILING.
11.6. JOINTING PRODUCTS FOR GYPSUM BOARDS: IN COMPLIANCE WITH CAN/CSA-A82.31M STANDARD AND AS PER MANUFACTURER'S RECOMMENDATIONS.

12. WOOD FRAMING:
12.1. STRUCTURAL LIGHT FRAMING: SELECT STRUCTURAL NO. 2
12.2. STRUCTURAL JOISTS AND PLANKS: SELECT STRUCTURAL NO. 2
12.3. LIGHT FRAMING: STANDARD
12.4. STUDS: ECONOMY
12.5. ENGINEERED JOIST: AS PER STRUCTURAL DESIGN.
12.6. STIFFENERS AND BRIDGINGS: AS PER STRUCTURAL.
12.7. FURRING CHANNELS: THICKNESS, EXCEPT OTHERWISE INDICATED, 1/32".
12.8. ACOUSTIC INSULATION: ACOUSTICAL MINERAL WOOL MANUFACTURED EXPRESSLY FOR THIS PURPOSE, IN COMPLIANCE WITH CAN/ULC S702 STANDARD, THICKNESS INDICATED, FRICTION-FIT TYPE TO FIT STUD SPACINGS, 44 KG/M3 NORMAL DENSITY, REFERENCE PRODUCT: MARF BY ROXUL OR APPROVED EQUIVALENT.
12.9. ACOUSTIC SEALANTS: REFERENCE PRODUCTS: ACOUSTIQUE BY TREMCO OR ACOUSTISEAL BY MULCO. APPLY ACOUSTIC SEALANT AROUND PERIMETER OF ALL SPACINGS AND ON INTERFACE BETWEEN WALL AND FLOOR OR CEILING WHEN FIREPROOF SEALANT IS NOT REQUIRED.
12.10. PROVIDE TWO STUDS EXTENDING FROM FLOOR TO CEILING AT EACH SIDE OF OPENINGS WIDER THAN STUD CENTRES SPECIFIED. SECURE STUDS TOGETHER, 2" APART USING APPROVED MEANS OF FASTENING PLACED ALONGSIDE FRAME ANCHOR CLIPS.
12.11. INSTALL YIELDING TRACK UNDER POSTS AND SLABS SO THAT ROOF STRUCTURE IS NOT SUPPORTED BY POSTS AND ALL FIRE-RESISTANT PARTITIONS.

13. FLOOR PREPARATION
13.1. SMOOTH UNEVENNESS OF SUB-FLOOR; FILL DENTS, CRACKS, JOINTS, HOLES AND OTHER DEFECTS WITH FILL MATERIAL USING A TROWEL OR FLOAT FOR A SINGLE LEVEL, HARD AND EVEN SURFACE; RESTRICT ACCESS UNTIL FILL MATERIAL HAS HARDENED AND DRIED.

14. RESILIENT FLOORING
14.1. SAMPLES: SAMPLE OF 8" X 8" FOR EACH TYPE OF RESILIENT FLOORING.
14.2. WARRANTY: PROVIDE A CERTIFICATE, SIGNED AND ISSUED IN THE NAME OF THE OWNER, GUARANTEEING THAT RESILIENT FLOORING IS TO REMAIN FREE OF ANY DEFECT, EXCEPT DUE TO NORMAL USAGE OR A DEFICIENCY IN CONCRETE SUPPORT, FOR A PERIOD OF TWO (2) YEARS.
14.3. MAINTENANCE SURPLUS: SUPPLY AN ADDITIONAL QUANTITY EQUIVALENT TO 5% OF INSTALLED QUANTITY, FOR EACH TYPE OF FLOOR COVERING.
14.4. LUXURY VINYL TILES: AS SELECTED BY OWNER.
14.5. VINYL BASEBOARD: AS SELECTED BY OWNER.
14.6. PRIMERS AND ADHESIVES: WATERPROOF, AS RECOMMENDED BY FLOORING MANUFACTURER, MATERIAL COMPATIBLE WITH SUPPORT LOCATED UNDER AND ABOVE GROUND LEVEL.

15. SUB-FLOOR PREPARATION:
15.1. CLEAN FLOOR TO BE COVERED WITH WATER AND RINSE CONSIDERABLY; DRYING PERIOD OF AT LEAST EIGHT (8) HOURS;
15.2. PRIME FLOOR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR RESILIENT FLOORING;
15.3. CHECK WITH HYGROMETER, MOISTURE CONTENT NOT TO EXCEED 2.5%.
15.4. LAY METAL STRIPS WHERE FLOOR COVERING EDGES ARE EXPOSED OR UNPROTECTED.
15.5. AT THE END OF WORK, PERFORM INITIAL MAINTENANCE TREATMENT AS RECOMMENDED BY MANUFACTURER.

16. CERAMIC
16.1. REFERENCE STANDARDS: EXCEPT IF INDICATED, TILING IN COMPLIANCE WITH "INSTALLATION MANUAL, CERAMIC TILE", PUBLISHED BY THE TERRAZZO, TILE AND MARBLE ASSOCIATION OF CANADA (TTMAC).
16.2. SAMPLES: SUBMIT SAMPLES FOR EACH TYPE, COLOUR, TEXTURE, FORMAT, PATTERN AND TILING PROFILE.
16.3. MAINTENANCE SURPLUS: SUPPLY AN ADDITIONAL QUANTITY EQUIVALENT TO AT LEAST 5% OF THE INSTALLED QUANTITY FOR EACH TYPE AND COLOUR OF TILES AND STORE THEM AT THE SPECIFIED LOCATION. SPARE TILES SHOULD BE OF SAME MANUFACTURING RUN AS THOSE INSTALLED.
16.4. TILES: AS SELECTED BY OWNER.

17. MORTAR:
17.1. FLOOR SUPPORT, FOR CERAMIC AND STONE TILES: KERABOND BY MAPEI, WITH KERALASTIC;
17.2. WALLS, FOR ANY SUPPORT OTHER THAN METAL, FOR CERAMIC, STONE AND GLASS PASTE TILES: KERABOND (WHITE REGARDING GLASS PASTE TILES) BY MAPEI, WITH KERALASTIC:
17.3. CHECK WITH MANUFACTURER REGARDING ANY SPECIAL CONDITION FOR LAYING TILES NAMELY LIGHT-COLOURED STONES OR SUPPORTS WHICH FORM MAY BE ALTERED.

18. GROUT:
18.1. FLOORS AND WALLS (JOINTS OF 1/8" AND MORE): KER-200 WITH SAND BY MAPEI, COLOURS CHOSEN BY ARCHITECT;
18.2. WALLS (JOINTS OF LESS THAN 1/8"): KER-800 BY MAPEI, COLOURS CHOSEN BY ARCHITECT.
18.3. PERIMETER MOULDINGS: CLEAR ANODIZED ALUMINIUM, SUCH AS SCHLUTER SYSTEM OR APPROVED EQUIVALENT.
18.4. INSTALL TILES ON CLEAR AND CLEAN SURFACES, AS PER ADHESIVE MANUFACTURER'S RECOMMENDATIONS.
18.5. PREPARATION: MAKE SURE THAT SURFACES ARE EVEN, MAXIMUM TOLERANCE BEING 1/8" IN 118". CHECK WITH HYGROMETER, MOISTURE CONTENT NOT TO EXCEED 2.5%.
18.6. EXCEPT INDICATED OTHERWISE, PLACE TILES SO THAT THEY ARE CENTERED IN ROOM AND THAT TILES ALONG WALLS MEASURE AT LEAST HALF THEIR FULL SIZE.
18.7. MATCH DIFFERENT PRODUCTION RUNS IN A UNIFORM AND CONTINUOUS MANNER; MAKE SURE THAT TILE SHEETS ARE NOT VISIBLE AFTER INSTALLATION.
18.8. SOUND TILES AFTER SETTING AND REPLACE HOLLOW-SOUNDING UNITS TO OBTAIN FULL BOND.
18.9. ALLOW ADHESIVE TO DRY AS PER MANUFACTURER'S RECOMMENDATIONS BEFORE GROUTING TILES.

19. PAINT
19.1. REFERENCE STANDARDS: EXCEPT IF INDICATED, USE ONLY PAINT MATERIALS LISTED ON THE CGSB QUALIFIED PRODUCTS LIST, CURRENT EDITION. PAINT MATERIALS FOR EACH COATING FORMULA TO BE PRODUCTS OF A SINGLE MANUFACTURER.
19.2. SAMPLES: SUBMIT FOR APPROVAL 24" X 24" SAMPLE FOR EACH COLOUR.
19.3. SURFACE PREPARATION:
19.3.1. PREPARE WOOD SURFACES IN COMPLIANCE WITH CGSB 850GP-1M STANDARD, APPLY VINYL SEALER IN COMPLIANCE WITH CAN/CSGB-1.126M STANDARD OVER KNOTS AND RESINOUS AREAS. APPLY WOOD FILLER TO NAIL HOLES AND CRACKS;
19.3.2. PREPARE SHOP PRIMED STEEL SURFACES WITH A PRODUCT IN COMPLIANCE WITH CAN/CGSB-1.40M AND CGSB 85-GP-14M STANDARDS.
19.3.3. PREPARE GALVANIZED STEEL AND ZINC COATED STEEL SURFACES IN COMPLIANCE WITH CGSB 85-GP-16M STANDARD. WASH WITH TRISODIUM PHOSPHATE SOLUTION AND RINSE THOROUGHLY;
19.3.4. PREPARE MASONRY, STUCCO AND CONCRETE SURFACES IN COMPLIANCE WITH CGSB 85-GP-31M STANDARD;
19.3.5. PREPARE GYPSUM BOARD SURFACES IN COMPLIANCE WITH CGSB 85-GP-33M STANDARD. FILL SMALL CRACKS WITH PATCHING COMPOUND.
19.4. CLEAN SURFACES TO BE PAINTED, NAMELY TOP OF DUCTWORK AND CONDUITS.
19.5. SAND AND DUST BETWEEN EACH COAT TO REMOVE DEFECTS VISIBLE FROM A DISTANCE OF 1.5 M.
19.6. FINISH TOP, BOTTOM, EDGES AND CUT-OUTS OF DOORS AFTER FITTING AS SPECIFIED FOR DOOR SURFACES. DO NOT PAINT OVER ULC LABELS. PAINT STEEL DOORS WITH AIRLESS SPRAYER.
19.7. PAINT EXPOSED CONDUITS, PIPING, HANGERS, DUCTWORK AND OTHER MECHANICAL AND ELECTRICAL EQUIPMENT. EXPOSED MECHANICAL AND ELECTRICAL DUCTWORK TO MATCH COLOUR OF ADJACENT WALLS AND CEILINGS. DO NOT PAINT OVER PREPAINTED ELEMENTS, NAMEPLATES AND LABELS.
19.8. USE PRODUCTS WITH SAME COLOUR AND SAME SHEEN AS EXISTING FINISH TO PATCH EXISTING SURFACES AFFECTED BY WORK. PAINT UP TO NEXT VERTICAL JOINT. USE PRODUCTS COMPATIBLE WITH EXISTING PRODUCTS.
19.9. PAINT WALLS CONCEALED BY BUILT-IN FURNITURE SAME COLOUR AS OF ADJACENT WALL. APPLY ONE FINISHING COAT ONLY.

20. PAINT FORMULAE:
20.1. FORMULA NO. 1 FOR INTERIOR WALLS OF CONCRETE BLOCK AND CAST-IN-PLACE CONCRETE:
20.1.1. ONE COAT PRIMER-EMULSION IN COMPLIANCE WITH CAN/CGSB-1.188 STANDARD. REFERENCE PRODUCT: 675-115 BY SICO.
20.1.2. TWO COATS LATEX INTERIOR PAINT, PLATINUM FINISH. REFERENCE PRODUCT: 874 BY SICO.

20.2. FORMULA NO. 2 FOR INTERIOR WALLS, GYPSUM BOARD:
20.2.1. ONE COAT LATEX PRIMER-SEALER. REFERENCE PRODUCT: 870-130 BY SICO.
20.2.2. TWO COATS LATEX INTERIOR PAINT, PLATINUM FINISH. REFERENCE PRODUCT: 874 BY SICO.

20.3. FORMULA NO. 3 FOR INTERIOR CEILINGS, GYPSUM BOARD:
20.3.1. ONE COAT LATEX PRIMER-SEALER. REFERENCE PRODUCT: 870-130 BY SICO.
20.3.2. TWO COATS LATEX INTERIOR PAINT, MATT FINISH. REFERENCE PRODUCT: 871-112 BY SICO.

20.4. FORMULA NO. 4 FOR INTERIOR SHOP PRIMED FERROUS METAL SURFACES
20.5. TOUCH UP WITH ANTICORROSIVE PRIMER. REFERENCE PRODUCT: 926-260 BY SICO.
20.6. PRIME COAT. REFERENCE PRODUCT: 926-260 BY SICO
20.7. TWO COATS ALKYD PAINT, PEARL FINISH. REFERENCE PRODUCT: 886 BY SICO.

21. SPECIALTIES:
21.1. ROOF ACCESS HATCH: BILCO THERMALLY BROKEN R20+, SINGLE LEAF HATCH FROM SHIP'S LADDER.
21.2. ROOF HATCH RAILINGS: BILCO BIL-GUARD® 2.0 ROOF HATCH SAFETY RAILING SYSTEM.

CLIENT

PROJECT NORTH

TRUE NORTH

SEAL

ARCHITECTURAL

LALANDE + DOYLE ARCHITECTS INC.
www.ldarch.com
Tel 613.233.2900
Fax 613.233.1008
159 Holland Ave
Ottawa, Ontario K1Y 0Y2

MECHANICAL + ELECTRICAL

STRUCTURAL

CIVIL

DATE	DESCRIPTION	ISSUE	REV.
17/07/2025	REISSUED FOR PERMIT	2	
09/07/2025	ISSUED FOR CONSTRUCTION	2	
12/03/2025	ISSUED FOR PERMIT	2	
27/02/2025	ISSUED FOR REVIEW	1	

PROJECT NAME

PULSE SOCIETIES LTD.

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve Street, Ottawa, ON K1C 1L1

DRAWING TITLE

ABBREVIATED SPECIFICATIONS

DATE 09.08.2024

PROJECT NO. 24-002C

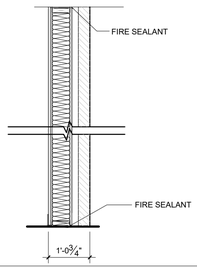
SCALE AS NOTED

DRAWN BY BR

REVIEWED BY LCL

DRAWING NO. A-002

PARTITION ASSEMBLY
FIRE-RATED DEMISING WALLS



DESCRIPTION

- 3 1/2" BRICK ANCHORED TO STRUCTURE
- FEROFAST THERMAL BRACKETS
- 5/8" SHEETROCK FIRECODE C CORE GYPSUM PANELS
- 2X6" WOOD STUDS @ 16" O.C.
- 3" SOUND ATTENUATION FIRE WOOL
- 5/8" SHEETROCK FIRECODE C CORE GYPSUM PANELS
- RESILIENT CHANNEL ONE SIDE
- JOINTS FINISHED

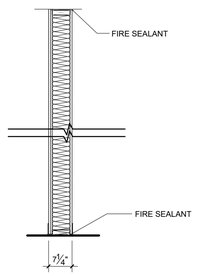
NOTE:

1 HOUR UL DES U327 A-24

STC 50 BBN-760903

TYPE P1A

PARTITION ASSEMBLY
FIRE-RATED DEMISING WALLS



DESCRIPTION

- 5/8" SHEETROCK FIRECODE C CORE GYPSUM
- 2X6" WOOD STUDS @ 16" O.C.
- 3" SOUND ATTENUATION FIRE WOOL
- RESILIENT CHANNEL
- 5/8" SHEETROCK FIRECODE C CORE GYPSUM
ALL JOINTS FINISHED

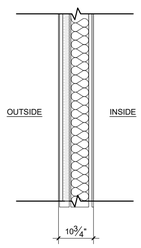
NOTE:

1 HOUR UL DES U327 A-24

STC 50 BBN-760903

TYPE P1

ENVELOPE ASSEMBLY
EXTERIOR WALL - SIDING (CEMENT)



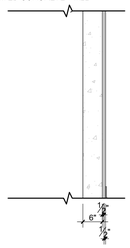
DESCRIPTION

- 5/16" PREFINISHED CEMENT SIDING
- 1 5/8" METAL STRUTS @ 16" O.C.
- 2" SEMI-RIGID MINERAL INSULATION
- AIR BARRIER
- 5/8" FIBREROCK AQUA-TOUGH EXTERIOR SHEATHING
- R24 MINERAL WOOL SAFB INSULATION (MINIMUM 6")
- 2" X 6" FRAMING (STUDS, HEADERS , LVL'S AND PARALLAMS AS NECESSARY) STUDS EFFECTIVELY FIRESTOPPED
- 15/32" PLYWOOD SHEET
- 6 MIL VAPOUR BARRIER
- 1"X3 FURRING
- 5/8" TYPE X GYPSUM BOARD

NOTE: 1 HOUR UL DES V340
R VALUE: 45.8

TYPE W1

PARTITION ASSEMBLY
FIRE-RATED CONCRETE WALL



DESCRIPTION

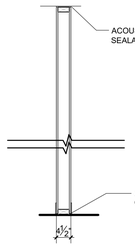
- 6" REINFORCED CONCRETE BLOCK
- 1/2" RESILIENT CHANNEL
- 1/2" GYPSUM BOARD

NOTE:

1 HOUR FRR REQUIRED

TYPE P3

PARTITION ASSEMBLY
BASIC INTERIOR PARTITION



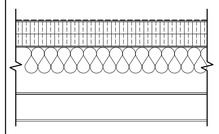
DESCRIPTION

- 1/2" GYPSUM BOARD
- 2X4" STUDS @ 16" O.C.
- 1/2" GYPSUM BOARD

NOTE:

TYPE P2

ROOF ASSEMBLY



DESCRIPTION

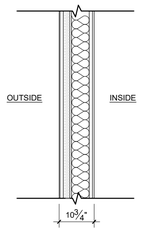
- MOD BIT MEMBRANE ROOFING
- PROTECTION BOARD
- TAPERED RIGID INSULATION MINIMUM 7 1/2" THICK (R32.25)
- IMPERMEABLE SELF-ADHERED MEMBRANE
- 3/4" ROOF SHEATHING
- 14" ENGINEERED WOOD JOISTS
- VAPOUR BARRIER
- 5" THICK MINERAL WOOL INSULATION (R17.75)
- 5/8" GYPSUM BOARD
- SUSPENDED GYPSUM BOARD CEILING

NOTE:

R VALUE: 53.32

TYPE R1

ENVELOPE ASSEMBLY
EXTERIOR WALL - SIDING (METAL/WOOD)



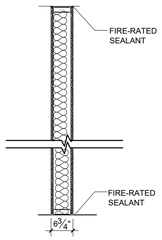
DESCRIPTION

- 1/2" PREFINISHED METAL SIDING
- 1 5/8" METAL STRUTS @ 16" O.C.
- SILL GASKETS
- 2" SEMI-RIGID MINERAL INSULATION
- AIR BARRIER
- 5/8" FIBREROCK AQUA-TOUGH EXTERIOR SHEATHING
- R24 MINERAL WOOL SAFB INSULATION (MINIMUM 6")
- 2" X 6" FRAMING (STUDS, HEADERS , LVL'S AND PARALLAMS AS NECESSARY) EFFECTIVELY FIRESTOPPED
- 15/32" PLYWOOD SHEET
- 6 MIL VAPOUR BARRIER
- 1"X3 FURRING
- 5/8" TYPE X GYPSUM BOARD

NOTE: 1 HOUR UL DES V340
R VALUE: 46.86

TYPE W2

PARTITION ASSEMBLY
ELEVATOR SHAFT PARTITION



DESCRIPTION

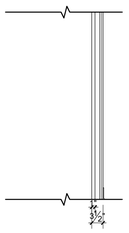
- 5/8" TYPE X GYPSUM BOARD
- 2X6" STUDS @ 16" O.C.
- 3 1/2" MINERAL WOOL INSULATION
- RESILIENT CHANNEL AT 16" O.C.
- 5/8" TYPE X GYPSUM BOARD

NOTE:

ULC DESIGN NO. U309 : I-HOUR FRR
STC 55

TYPE P5

PARTITION ASSEMBLY
FIRE-RATED SHAFT WALL



DESCRIPTION

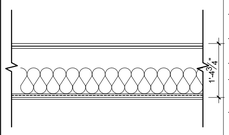
- 2 LAYERS 1/2" SHEETROCK FIRECODE C CORE GYPSUM PANELS, FACE LAYER JOINTS FINISHED
- 2 1/2" C-H STUDS (25 GA, 16" OC)
- 1" GYPSUM LINER PANELS

NOTE:

ULC DES W452 (2 HOUR FRR)

TYPE P4

FLOOR ASSEMBLY



DESCRIPTION

- FLOOR FINISH - REFER TO SPECS
- 3/4" THICK LEVELROCK® BRAND 2500 SERIES FLOOR UNDERLAYMENT
- SOUND MAT: 1 LAYER 1/8" THICK LEVELROCK® BRAND SAMA-1/2™ SOUND ATTENUATION MAT
- SUBFLOORING: 1 LAYER 9/32" PLYWOOD SUBFLOOR END JOINTS STAGGERED
- STRUCTURAL WOOD MEMBERS: 1 LAYER 1-2" ENGINEERED WOOD I-JOISTS. SPACED MAX. 24" O.C.
- INSULATION: 1 LAYER 3-1/2" UNFACED MINERAL WOOL
- RESILIENT CHANNEL: 1 LAYER 25 GA, RESILIENT CHANNELS SPACED 16" O.C. (SOUND TESTED WITH RC DELUXE®)
- GYPSUM PANEL: 2 LAYER 5/8" TYPE X

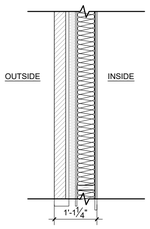
NOTE:

1 HOUR UL DES L570 SYSTEM 2

ASTC 57 TO 59
AIIC: 54 TO 56

TYPE F1

ENVELOPE ASSEMBLY
EXTERIOR WALL- BRICK



DESCRIPTION

- 3 1/2" BRICK VENEER
- FEROFAST THERMAL BRACKETS
- 1" ENGINEERED DRAINAGE & VENTILATION MAT
- 2" SEMI-RIGID MINERAL INSULATION
- AIR BARRIER
- 5/8" FIBREROCK AQUA-TOUGH EXTERIOR SHEATHING
- R24 MINERAL WOOL SAFB INSULATION (MINIMUM 6")
- 2" X 6" FRAMING (STUDS, HEADERS , LVL'S AND PARALLAMS AS NECESSARY) EFFECTIVELY FIRESTOPPED
- 15/32" PLYWOOD SHEET
- 6 MIL VAPOUR BARRIER
- 5/8" TYPE X GYPSUM BOARD

NOTE:

1 HOUR UL DES V340
R VALUE: 48.6

TYPE W3

FLOOR ASSEMBLY

DESCRIPTION

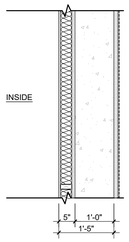
- FINISHED FLOORING AS PER OWNER SPEC.
- 5/8" T&G PLYWOOD SUB FLOOR
- PRE-ENG WD. JOISTS @ 16"
- SAFB BETWEEN JOISTS
- RESILIENT METAL CHANNELS @ 16" C/C
- 2 LAYERS OF 5/8" TYPE X GB

NOTE:

11HR. FRR AS PER OBC SB-2
& STC 52 AS PER OBC SB-3 F9D

TYPE F2

ENVELOPE ASSEMBLY
FOUNDATION WALL- UNDERGROUND



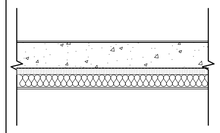
DESCRIPTION

- TWO LAYERS OF WATER RESISTIVE BARRIER
- 1 2" GMX THERMAL DRAIN BOARD
- NEW CONCRETE FOUNDATION WALL
- VAPOUR BARRIER
- 1" COMFORTBATT (R4) NAILED TO WALL
- 2X4 WOOD STUDS FILLED WITH 3.5" HEATLOK SOYA SPRAYED INSULATION/VAPOUR BARRIER
- 2" GYPSUM BOARD

NOTE:

TYPE W4

FLOOR ASSEMBLY



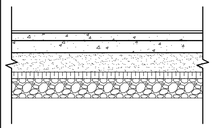
DESCRIPTION

- FLOOR FINISH - REFER TO SPECS
- WATERPROOFING MEMBRANE
- REINFORCED CONCRETE SLAB (REFER TO STRUCTURAL)
- AIR BARRIER MEMBRANE
- 2" THICK RIGID INSULATION
- 4" MINERAL WOOL INSULATION HELD BY CLIPS
- 1/2" GYPSUM BOARD

NOTE: 1 HOUR UL DES K913

TYPE F4

FLOOR ASSEMBLY



DESCRIPTION

- FLOOR FINISH - REFER TO SPECS
- 3/4" THICK DRYCORE ENGINEERED SUBFLOOR
- STRUCTURAL CONCRETE SLAB (REFER TO STRUCTURAL)
- 6" COMPACTED SAND
- 2" THICK RIGID INSULATION
- MINIMUM 6" COMPACTED GRAVEL
- UNDISTURBED SOIL

NOTE:

TYPE F3

ONTARIO BUILDING CODE - MATRIX

FIRM NAME: LALANDE + DOYLE ARCHITECTS INC.

CERTIFICATE OF PRACTICE NUMBER: 4302
159 HOLLAND AVE.
OTTAWA, ON K1P 6E5
T: 613.233.2900 F:613.233.1008

NAME OF PROJECT: ORLEANS DEVELOPMENT - NEW 4-STOREY MULTI-RESIDENTIAL BUIDLING

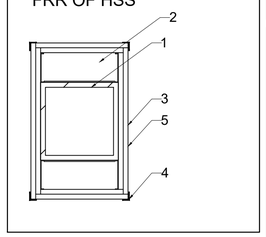
LOCATION: 1108 MAISONNEUVE STREET, ORLEANS (OTTAWA), ON

ITEM	ONTARIO'S 2012 BUILDING CODE DATA MATRIX 3	OBC REFERENCE (REFERENCES ARE TO DIVISION B UNLESS NOTED (B) FOR DIVISION A OR (C) FOR DIVISION C)
1	PROJECT DESCRIPTION: ☒ NEW ☐ ADDITION ☐ ALTERATION ☐ CHANGE OF USE ☐	☒ PART 3 ☐ 1.1.2.2.1 [a]
2	MAJOR OCCUPANCY(S): C - RESIDENTIAL	3.1.2.1.(1)
3	BUILDING AREA (m²): EXISTING: 0 m² NEW: 329.01 m² TOTAL: 329.01 m²	1.4.1.2. [A]
4	GROSS AREA (m²): EXISTING: 0 m² NEW: 1 316.04 m² TOTAL: 1 316.04 m²	1.4.1.2. [A]
5	NUMBER OF STOREYS: ABOVE GRADE: 4 BELOW GRADE: 1	1.4.1.2. [A] & 3.2.1.1.
6	NUMBER OF STREETS/ FIRE FIGHTER ACCESS: 1	3.2.2.10. & 3.2.5.
7	BUILDING CLASSIFICATION: 3.2.2.45, Group C, up to 4 Storeys, Sprinklered	3.2.2.45.
8	SPRINKLER SYSTEM PROPOSED: ☒ ENTIRE BUILDING ☐ SELECTED COMPARTMENTS, EXISTING ☐ SELECTED FLOOR AREAS, EXISTING ☐ BASEMENT ☐ IN LIEU OF ROOF RATING ☐ NOT REQUIRED	3.2.2.45.
9	STANDPIPE REQUIRED: ☐ EXISTING ☒ YES ☐ NO	3.2.9.
10	FIRE ALARM REQUIRED: ☒ YES ☐ NO	3.2.4.
11	WATER SERVICE/ SUPPLY IS ADEQUATE: ☒ YES ☐ NO	3.2.5.7.
12	HIGH BUILDING: ☐ YES ☒ NO	3.2.6.
13	CONSTRUCTION RESTRICTIONS: ☒ COMBUSTIBLE PERMITTED ☐ NON-COMB. REQUIRED ☒ BOTH ACTUAL CONSTRUCTION: ☐ COMBUSTIBLE ☐ NON-COMB. ☒ BOTH	3.2.2.24.
14	MEZZANINE(S) AREA (m²):	3.2.1.1.(3) - (8).
15	OCCUPANT LOAD BASED ON: ☐ m²/PERSON ☒ DESIGN OF BUILDING BASEMENT FLOOR: 5 BEDROOMS - 10 PERSONS FIRST FLOOR: 5 BEDROOMS - 10 PERSONS SECOND FLOOR: 6 BEDROOMS - 12 PERSONS THIRD FLOOR: 6 BEDROOMS - 12 PERSONS FOURTH FLOOR: 6 BEDROOMS - 12 PERSONS TOTAL: 56 PERSONS	
16	BARRIER-FREE DESIGN: ☒ YES (UNITS 1, 5, 6, 10 & 22)	3.8. & CSA B651-04
17	HAZARDOUS SUBSTANCES: ☐ YES ☒ NO	3.3.1.2. & 3.3.1.19.
18	REQUIRED FIRE RESISTANCE RATING (FRR) EXISTING BUILDING — HORIZONTAL ASSEMBLIES FRR (HOURS) / LISTED DESIGN NO. OR DESCRIPTION (SG-2) FLOORS: ROOF: MEZZANINE: NEW BUILDING — FLOORS: 1H — UL DES L530 ROOF: 0 H — NOT REQUIRED - SPRINKLERS MEZZANINE: — NOT APPLICABLE REQUIRED FRR — BETWEEN SUITES: ELEVATOR HOISTWAY MECHANICAL/ELECTRICAL ROOMS: VERTICAL SERVICE SPACES	3.2.2.45. & 3.2.1.4.
19	STC RATINGS — MINIMUM STC RATINGS 1. BETWEEN UNITS: 50 BBN-760903 2. ELEVATOR HOISTWAY: 55	
20	SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALLS	TABLE 3.2.3.1 D

WALL	AREA OF EBF (m²)	L.D. (m)	L/H OR H/L	PERMITTED MAX % OF OPENINGS	PROPOSED % OF OPENINGS	FRR (HRS)	LISTED DESIGN OR DESCRIPTION	COMBUSTIBLE CONST.	COMB. CONST. NON-COMB. CLADDING	NON-COMB. CONST.
NORTH	216 m²	--	--------	100 %	N/A		N/A		X	
SOUTH	216 m²	--	--------	100 %	N/A		N/A		X	
EAST	328 m²	3.7 m	--------	26%	7.5 %		N/A		X	
WEST	328 m²	3 m	--------	22 %	8.9 %		N/A		X	

21	WASHROOMS: OBC 3.7.4.5: ONE WASHROOM PER UNIT - 20 UNITS = 20 WASHROOMS

FRR OF HSS



1. STRUCTURAL MEMBER
2. STUDS SHALL BE FABRICATED OF GALVANIZED STEEL NOT LESS THAN 0.53 THICK AND NOT LESS THAN 41.3 WIDE, WITH LEG NOT LESS THAN 33.3MM LONG AND SHALL BE 12.7MM LESS THAN THE ASSEMBLY HEIGHT.
3. THE TYPE X GYPSUM BOARD SHALL BE APPLIED VERTICALLY WITHOUT HORIZONTAL JOINTS.
4. CORNER BEADS SHALL BE FABRICATED OF GALVANIZED STEEL THAT IS NOT LESS THAN 0.41MM THICK & HAVE LEGS NOT LESS THAN 31MM LONG.
5. STEEL TIE WIRES SPACED AT THE MAXIMUM OF THE 610MM O.C.TO SECURE THE SECOND LAST LAYER OF WALLBOARD IN 3 AND 4 LAYER SYSTEMS.

GENERAL NOTES:

1. FOR ALL TECHNICAL ISSUE OR QUESTIONS, CONTACT THE ARCHITECT BEFORE CONTINUING THE WORK
2. THE CONTRACTOR IS RESPONSIBLE TO CONFIRM ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK SITE AND WILL BE SOLELY RESPONSIBLE FOR THE ACCURACY OF MEASUREMENTS AND OBSERVATIONS .
3. CONTRACTOR WILL REPORT ANY ERRORS, OMISSIONS OR DEFECTS TO THE ARCHITECT BEFORE THE COMMENCEMENT OF WORK .VERIFY EXISTING CONDITIONS ON SITE AND ADJUST AS NECESSARY
4. ALL WORK SHALL BE PERFORMED:
   - ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF QUEBEC BUILDING CODE AND ALL OTHER APPLICABLE REGULATIONS.
   - IN ACCORDANCE WITH MANUFACTURERS' LITERATURE FOR INSTALLATION AND MAINTENANCE.
5. DO NOT SCALE DRAWINGS . IF NO DIMENSIONS IS GIVEN REFER TO THE AUTHOR OF THE DRAWINGS.
6. REFER TO STRUCTURAL DRAWINGS FOR ALL DETAILS REGARDING FOOTINGS, FOUNDATIONS, WOOD FRAME STRUCTURE AND ALL OTHER STRUCTURAL COMPONENTS OF THE BUILDING.
7. REFER TO CONSULTING ENGINEERING CONSULTANTS FOR ANY ISSUES AFFECTING STRUCTURAL AND/OR GEOTECHNICAL (SOILS).
8. IT IS FORBIDDEN TO REPRODUCE IN WHOLE OR IN PART THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF THE AUTHOR .L+D ARCHITECTS OWN EXCLUSIVE COPYRIGHTS ON THIS DOCUMENT.
9. NO COPY OF THIS PLAN WITHOUT THE WRITTEN CONSENT IS PERMITTED .ANY OFFENDER IS SUBJECT TO PROSECUTION. IF ADDITIONAL COPIES ARE REQUIRED, PLACE A REQUEST WITH THE ARCHITECTS. PRINTING COST WILL APPLY .
10. FOUNDATION WALLS SHOULD NOT BE BACKFILLED UNTIL CONCRETE HAS REACHED ITS SPECIFIED 28 DAYS CURING STRENGTH AND STRUCTURAL FLOOR FRAMING INCLUDING PLYWOOD SUBFLOOR IS REQUIRED TO STABILIZE THE WALL PRIOR TO BACKFILL.
11. REFER TO STRUCTURAL DRAWINGS FOR ALL FOUNDATION, FOOTINGS, COLUMNS, BEAMS, ETC.
12. PROVIDE FLOOR DRAINS BENEATH LAUNDRY MACHINES . REFER TO MECHANICAL.

CLIENT

PROJECT NORTH

TRUE NORTH

SEAL

ONTARIO ASSOCIATION OF ARCHITECTS
LOUISE CATHERINE LALANDE
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MECHANICAL + ELECTRICAL

STRUCTURAL

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DATE	DESCRIPTION	ISSUE.	REV.
17/07/2025	REISSUED FOR PERMIT	5	
09/07/2025	REISSUED FOR CONSTRUCTION	4	
16/05/2025	REISSUED FOR PERMIT	4	
10/04/2025	REISSUED FOR PERMIT	3	
12/03/2025	ISSUED FOR PERMIT	2	
27/02/2025	ISSUED FOR REVIEW	1	

PROJECT NAME

PULSE SOCIETIES LTD.

ORLEANS DEVELOPMENT - PRR

1108 Maisonneuve Street, Orleans (Ottawa), ON

DRAWING TITLE

OBC MATRIX, GENERAL NOTES, ASSEMBLIES

DATE 09.07.2024

PROJECT NO. 24-002C

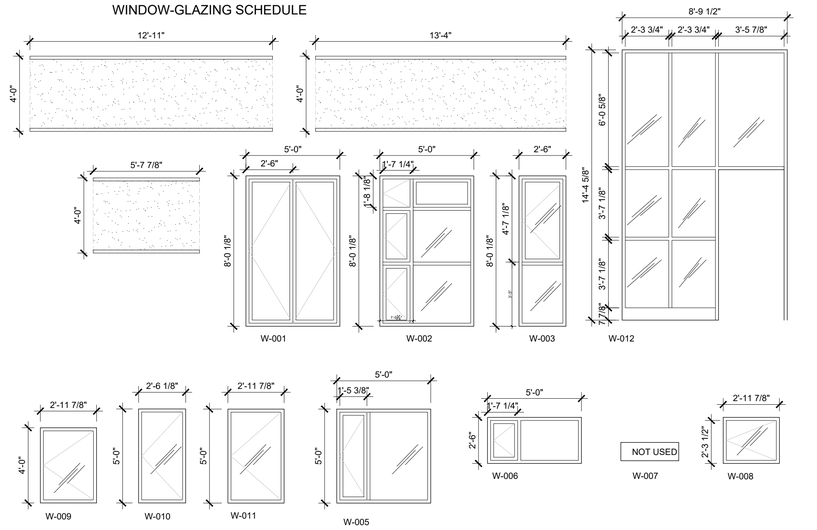
SCALE AS NOTED

DRAWN BY BR

DRAWING NO. A-003

REVIEWED BY LCL

WINDOW-GLAZING SCHEDULE

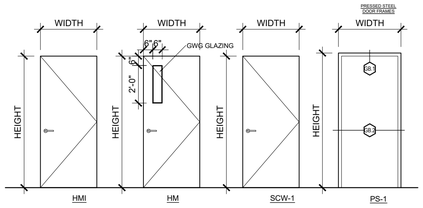


DOOR SCHEDULE

No.	QTT.	LOCATION	TYPE	DIMENSIONS	FRAME	FRR	HARDWARE	NOTES
D01	1	EXTERIOR ENTRANCE DOOR	ALUMINUM-CLAD WOOD	3'-4" X 8'-0"	ALUMINUM		LOCKSET W/ CLOSER, WEATHERSTRIPPING, POWER OPENER	GLAZED SIDELIGHT & TRANSOM (SEE ELEVATION)
D02	1	INTERIOR ENTRANCE DOOR	ALUMINUM-CLAD WOOD	3'-4" X 8'-0"	ALUMINUM		CLOSER, WEATHERSTRIPPING, POWER OPENER	GLAZED SIDELIGHT & TRANSOM (SEE ELEVATION)
D03	1	EXIT DOOR	HOLLOW METAL INSULATED	3'-0" X 8'-0"	STEEL		LOCKSET & DEADBOLT	
D04	11	STAIRWELL DOOR	HOLLOW METAL	3'-0" X 8'-0"	STEEL	45 MIN.	CLOSER, PASSAGE SET	
D05	17	APART. ENTRANCE DOOR	SOLID CORE WOOD	3'-2" X 8'-0"	WOOD	45 MIN.	LOCKSET & DEADBOLT W/ CLOSER, DOOR VIEWER	
D06	6	ACCESSIBLE APART. ENTRANCE DOOR	SOLID CORE WOOD	3'-4" X 8'-0"	WOOD	45 MIN.	LOCKSET & DEADBOLT W/ CLOSER, DOOR VIEWER	
D07	15	BEDROOM DOOR	HOLLOW CORE WOOD	2'-8" X 8'-0"	WOOD		PRIVACY SET	
D08	5	ACCESSIBLE BEDROOM DOOR	HOLLOW CORE WOOD	3'-4" X 8'-0"	WOOD		PRIVACY SET	
D09	13	WASHROOM DOOR	HOLLOW CORE WOOD	2'-8" X 8'-0"	WOOD		PRIVACY SET	
D10	6	ACCESSIBLE WASHROOM DOOR	HOLLOW CORE WOOD	3'-4" X 8'-0"	WOOD		PRIVACY SET	
D11	48	CLOSET	HOLLOW CORE WOOD	VARIES X 8'-0"	WOOD		SLIDING	
D12	19	W/D CLOSET DOOR	HOLLOW CORE WOOD	VARIES X 8'-0"	WOOD			
D13	9	W/D CLOSET DOOR	HOLLOW CORE WOOD	VARIES X 8'-0"	WOOD		180 HINGE	
D14	1	ELEVATOR MECH. ROOM	HOLLOW METAL	3'-0" X 8'-0"	STEEL		LOCKSET & DEADBOLT W/ CLOSER	

UNIT SCHEDULE

	UNIT No.	AREA (ft²)	No. of BEDROOMS	REMARKS
BASEMENT	UNIT 1	598 SQ FT	STUDIO	ACESSIBLE
	UNIT 2	453 SQ FT	STUDIO	
	UNIT 3	590 SQ FT	1 BEDROOM	
	UNIT 4	451 SQ FT	STUDIO	
	UNIT 5	578 SQ FT)	1 BEDROOM	
1ST FLOOR	UNIT 6	600 SQ FT	STUDIO	ACESSIBLE
	UNIT 7	454 SQ FT	STUDIO	
	UNIT 8	588 SQ FT	1 BEDROOM	
	UNIT 9	455 SQ FT	STUDIO	
	UNIT 10	575 SQ FT	1 BEDROOM	
2ND FLOOR	UNIT 11	578 SQ FT	STUDIO	ACCESSIBLE
	UNIT 12	452 SQ FT	STUDIO	
	UNIT 13	548 SQ FT	1 BEDROOM	
	UNIT 14	455 SQ FT	STUDIO	
	UNIT 15	859 SQ FT	2 BEDROOMS	
3RD FLOOR	UNIT 16	578 SQ FT	1 BEDROOM	
	UNIT 17	452 SQ FT	STUDIO	
	UNIT 18	455 SQ FT	1 BEDROOM	
	UNIT 19	455SQ FT	STUDIO	
	UNIT 20	859 SQ FT	2 BEDROOMS	
4TH FLOOR	UNIT 21	578 SQ FT	1 BEDROOM	
	UNIT 22	727 SQ FT	1 BEDROOM	ACCESSIBLE
	UNIT 23	749 SQ FT	1 BEDROOM	ACCESSIBLE
	UNIT 24	859 SQ FT	2 BEDROOMS	



DOOR TYPES

AS PER OBC 9.7.2.3, MINIMUM PERCENTAGE OF GLAZING REQUIRED:

FOR LIVING ROOMS: 10% OF THE FLOOR AREA
FOR BEDROOMS: 5% OF THE FLOOR AREA

LIVING ROOMS VARY AS THERE ARE ALSO STUDIO APARTMENTS;

BASEMENT:

1. UNIT 1: LIVING ROOM: 120 SQ FT REQUIRES 12 SQ FT OF GLAZING
   THERE IS ONE W006 (12.25 SQ FT)
   BEDROOM: 108 SQ FT REQUIRES 5.4 SQ FT OF GLAZING
   THERE IS ONE W006 (12.25 SQ FT) AND ONE W008 (7.4 SQ FT) FOR A TOTAL OF 19.65 SQ FT OF GLAZING
2. UNIT 2 STUDIO: 245 SQ FT REQUIRES 24.5 SQ FT OF GLAZING
   THERE ARE TWO W006 (12.25 SQ FT) FOR A TOTAL 24.5 SQ FT OF GLAZING
3. UNIT 3 STUDIO: 243 SQ FT REQUIRES 24.3 SQ FT OF GLAZING
   THERE ARE TWO W006 (12.25 SQ FT) FOR A TOTAL 24.5 SQ FT OF GLAZING
4. UNIT 4 : LIVING ROOM: 264 SQ FT REQUIRES 26.4 SQ FT OF GLAZING
   THERE ARE TWO W006 (12.25 SQ FT) AND ONE W008 (7.4 SQ FT) FOR A TOTAL OF 32 SQ FT OF GLAZING
   BEDROOM: 77 SQ FT REQUIRES 3.8 SQ FT OF GLAZING
   THERE IS ONE W0006 (7.4 SQ FT)
5. UNIT 5: ACCESSIBLE: LIVING ROOM: 104 SQ FT REQUIRES 10.4 SQ FT OF GLAZING
   THERE IS ONE W006 (12.25 SQ FT)
   BEDROOM: 104 SQ FT REQUIRES 5.15 SQ FT OF GLAZING
   THERE ARE ONE W006 (12.25 SQ FT) AND ONE W008 (7.4 SQ FT) FOR A TOTAL OF 19.65 SQ FT OF GLAZING

FIRST FLOOR:

6. UNIT 6 LIVING ROOM: 196 SQ FT REQUIRES 19.6 SQ FT OF GLAZING
   THERE IS ONE W002 (40 SQ FT)
   BEDROOM: 112 SQ FT REQUIRES 5.6 SQ FT OF GLAZING
   THERE ARE ONE W002 (40 SQ FT) AND ONE W011 (15 SQ FT) FOR A TOTAL OF 55 SQ FT OF GLAZING
7. UNIT 7: STUDIO: 254 SQ FT REQUIRES 25.4 SQ FT OF GLAZING
   THERE ARE ONE W001 (40 SQ FT) AND ONE W005 (25 SQ FT) FOR A TOTAL OF 65 SQ FT OF GLAZING
8. UNIT 8: STUDIO: 294 SQ FT REQUIRES 29.4 SQ FT OF GLAZING
   THERE ARE ONE W001 (40 SQ FT) AND ONE W005 (25 SQ FT) FOR A TOTAL OF 65 SQ FT OF GLAZING
9. UNIT 9 LIVING ROOM: 277 SQ FT REQUIRES 27.7 SQ FT OF GLAZING
   THERE IS ONE W001 (40 SQ FT), ONE (W005 (25 SQ FT) AND ONE W 011 (15 SQ FT) FOR A TOTAL 80 SQ FT OF GLAZING
   BEDROOM: 80 SQ FT REQUIRES 4 SQ FT OF GLAZING
   THERE IS ONE W005 (25 SQ FT)
10. UNIT 10: LIVING ROOM: 290 SQ FT REQUIRES 29 SQ FT OF GLAZING
    THERE IS ONE W002 (40 SQ FT)
    BEDROOM: 105 SQ FT REQUIRES 5.25 SQ FT OF GLAZING
    THERE IS ONE W002 (40 SQ FT) AND ON W011 (15 SQ FT) FOR A TOTAL OF 55 SQ FT OF GLAZING

SECOND FLOOR:

11. UNIT 11: LIVING ROOM: 297 SQ FT REQUIRED 29.7 SQ FT OF GLAZING
    THERE IS ONE W001 (40 SQ FT)
    THE LARGE BEDROOM IS 106.8 SQ FT AND REQUIRES 5.34 SQ FT OF GLAZING - THERE IS A W005 (25 SQ FT)
    THE OTHER TWO SMALLER BEDROOMS ARE 80 SQ FT AND REQUIRE 4.0 SQ FT OF GLAZING EACH
    THERE IS ONE W005 (25 SQ FT) IN EACH BEDROOM
12. UNIT 12: STUDIO: 254 SQ FT REQUIRES 25.4 SQ FT OF GLAZING
    THERE ARE ONE W001 (40 SQ FT) AND ONE W005 (25 SQ FT) FOR A TOTAL OF 65 SQ FT OF GLAZING
13. UNIT 13: STUDIO: 294 SQ FT REQUIRES 29.4 SQ FT OF GLAZING
    THERE ARE ONE W001 (40 SQ FT) AND ONE W005 (25 SQ FT) FOR A TOTAL OF 65 SQ FT OF GLAZING
14. UNIT 14: LIVING ROOM: 277 SQ FT REQUIRES 27.7 SQ FT OF GLAZING
    THERE IS ONE W001 (40 SQ FT), ONE (W005 (25 SQ FT) AND ONE W 011 (15 SQ FT) FOR A TOTAL 80 SQ FT OF GLAZING
    BEDROOM: 80 SQ FT REQUIRES 4 SQ FT OF GLAZING
    THERE IS ONE W005 (25 SQ FT):
15. UNIT 15: LIVING ROOM: 275 SQ FT REQUIRES 27.5 SQ FT OF GLAZING
    THERE ARE ONE W001 (40 SQ FT) AND ONE W011 (15 SQ FT) FOR A TOTAL OF 55 SQ FT OF GLAZING
    BEDROOM: 88 SQ FT REQUIRES 4.4 SQ FT OF GLAZING
    THERE IS ONE W005 (25 SQ FT)

THIRD FLOOR:

16. UNIT 16: LIVING ROOM: 297 SQ FT REQUIRED 29.7 SQ FT OF GLAZING
    THERE IS ONE W001 (40 SQ FT)
    THE LARGE BEDROOM IS 106.8 SQ FT AND REQUIRES 5.34 SQ FT OF GLAZING - THERE IS A W005 (25 SQ FT)
    THE OTHER TWO SMALLER BEDROOMS ARE 80 SQ FT AND REQUIRE 4.0 SQ FT OF GLAZING EACH
    THERE IS ONE W005 (25 SQ FT) IN EACH BEDROOM
17. UNIT 17: STUDIO: 254 SQ FT REQUIRES 25.4 SQ FT OF GLAZING
    THERE ARE ONE W001 (40 SQ FT) AND ONE W005 (25 SQ FT) FOR A TOTAL OF 65 SQ FT OF GLAZING
18. UNIT 18: 294 SQ FT REQUIRES 29.4 SQ FT OF GLAZING
    THERE ARE ONE W001 (40 SQ FT) AND ONE W005 (25 SQ FT) FOR A TOTAL OF 65 SQ FT OF GLAZING

UNIT 19: LIVING ROOM: 277 SQ FT REQUIRES 27.7 SQ FT OF GLAZING
THERE IS ONE W001 (40 SQ FT), ONE W005 (25 SQ FT) AND ONE W 011 (15 SQ FT) FOR A TOTAL 80 SQ FT OF GLAZING
BEDROOM: 80 SQ FT REQUIRES 4 SQ FT OF GLAZING
THERE IS ONE W005 (25 SQ FT):

20. UNIT 20: LIVING ROOM: 275 SQ FT REQUIRES 27.5 SQ FT OF GLAZING
    THERE ARE ONE W001 (40 SQ FT) AND ONE W011 (15 SQ FT) FOR A TOTAL OF 55 SQ FT OF GLAZING
    BEDROOM: 88 SQ FT REQUIRES 4.4 SQ FT OF GLAZING
    THERE IS ONE W005 (25 SQ FT)

FOURTH FLOOR:

21. UNIT 21: LIVING ROOM: 297 SQ FT REQUIRED 29.7 SQ FT OF GLAZING
    THERE IS ONE W001 (40 SQ FT)
    THE LARGE BEDROOM IS 106.8 SQ FT AND REQUIRES 5.34 SQ FT OF GLAZING - THERE IS A W005 (25 SQ FT)
    THE OTHER TWO SMALLER BEDROOMS ARE 80 SQ FT AND REQUIRE 4.0 SQ FT OF GLAZING EACH
    THERE IS ONE W005 (25 SQ FT) IN EACH BEDROOM
22. UNIT 22: 275 SQ FT REQUIRES 27.5SQ FT OF GLAZING
    THERE IS ONE W001 (40 SQ FT) AND ONE W005 (25 SQ FT) FOR A TOTAL 65 SQ FT OF GLAZING
    BEDROOMS: 90 SQ FT REQUIRES 4.5 SQ FT OF GLAZING
    THERE IS A W005 (25 SQ FT) OF GLAZING IN EACH BEDROOM
23. UNIT 23: LIVING ROOM 277 SQ FT REQUIRES 27.7 SQ FT OF GLAZING
    THERE IS ONE W001 (40 SQ FT), ONE W005 (25 SQ FT) AND ONE W 011 (15 SQ FT) FOR A TOTAL 80 SQ FT OF GLAZING
    BEDROOM: 80 SQ FT REQUIRES 4 SQ FT OF GLAZING
    THERE IS ONE W005 (25 SQ FT):
24. UNIT 24: LIVING ROOM:275 SQ FT REQUIRES 27.5 SQ FT OF GLAZING
    THERE ARE ONE W001 (40 SQ FT) AND ONE W011 (15 SQ FT) FOR A TOTAL OF 55 SQ FT OF GLAZING
    BEDROOM: 88 SQ FT REQUIRES 4.4 SQ FT OF GLAZING
    THERE IS ONE W005 (25 SQ FT)

CLIENT

PROJECT NORTH

TRUE NORTH

SEAL

ARCHITECTURAL

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DATE	DESCRIPTION	ISSUE	REV.
17/07/2025	REISSUED FOR PERMIT	3	
09/07/2025	ISSUED FOR CONSTRUCTION	3	
27/05/2025	REISSUED FOR PERMIT	3	
12/03/2025	ISSUED FOR PERMIT	2	
27/02/2025	ISSUED FOR REVIEW	1	

PROJECT NAME

PULSE SOCIETIES LTD.

ORLEANS DEVELOPMENT - PRR

1108 Maisonneuve street, Ottawa, ON

DRAWING TITLE

DOOR, FRAME, WINDOW & UNIT SCHEDULES

DATE
09.07.2024

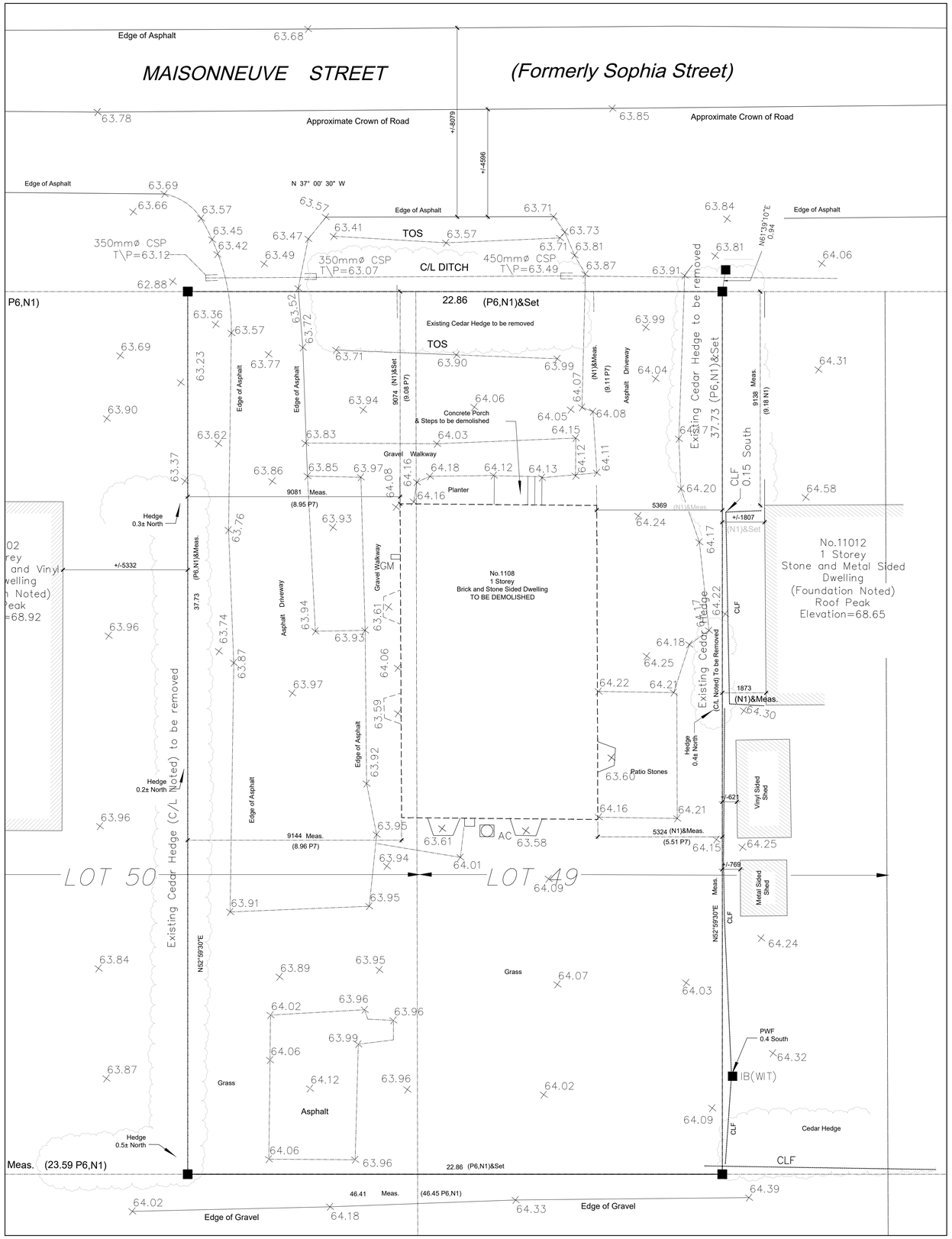
PROJECT NO.
24-002C

SCALE
AS NOTED

DRAWN BY
BR

DRAWING NO.
A-004

REVIEWED BY
LCL



1 DEMOLITION - SITE PLAN
AD100
SCALE = 1 : TBD

1. REFER TO SURVEY BY FARLEY, SMITH AND DENIS SURVEYING LTD.
1. ALL GRADES TO MATCH EXISTING UNLESS OTHERWISE INDICATED ON SITE PLAN. NEW GRADES TO TIE INTO EXISTING GRADES.
2. CURBS AND LANDSCAPING SHOWN OUTSIDE OF PROPERTY LINE AND IN EXISTING NATURAL ZONE ARE SHOWN FOR INFORMATION PURPOSES ONLY. SITE VERIFICATION OF ALL CONDITIONS REQUIRED.
3. REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR NEW LANDSCAPING AND TREE PRESERVATION.
4. REFER TO ENGINEERING DRAWINGS FOR EXTENT OF NEW ROAD DEVELOPMENT, SITE LIGHT I1ING, AND MASTER SITE PLAN.
5. ALL NOTES ARE AS PER CITY/ PROVINCIAL STANDARDS, GUIDELINES, BY-LAWS AND DETAIL DRAWINGS.

CLIENT

PROJECT NORTH

TRUE NORTH

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ARCHITECTURAL

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MECHANICAL + ELECTRICAL

STRUCTURAL

CIVIL

DATE	DESCRIPTION	ISSUE	REV.
2025/07/17	REISSUED FOR PERMIT	3	
2025/07/09	ISSUED FOR CONSTRUCTION	2	
2025/03/12	ISSUED FOR PERMIT	2	
2025/03/12	REISSUED FOR SPA	2	
2025/02/27	ISSUED FOR REVIEW	1	

PROJECT NAME

PULSE SOCIETIES LTD.

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve St, Ottawa, ON K1C 1L1

DRAWING TITLE

SITE PLAN - DEMOLITION

DATE 09.07.2024

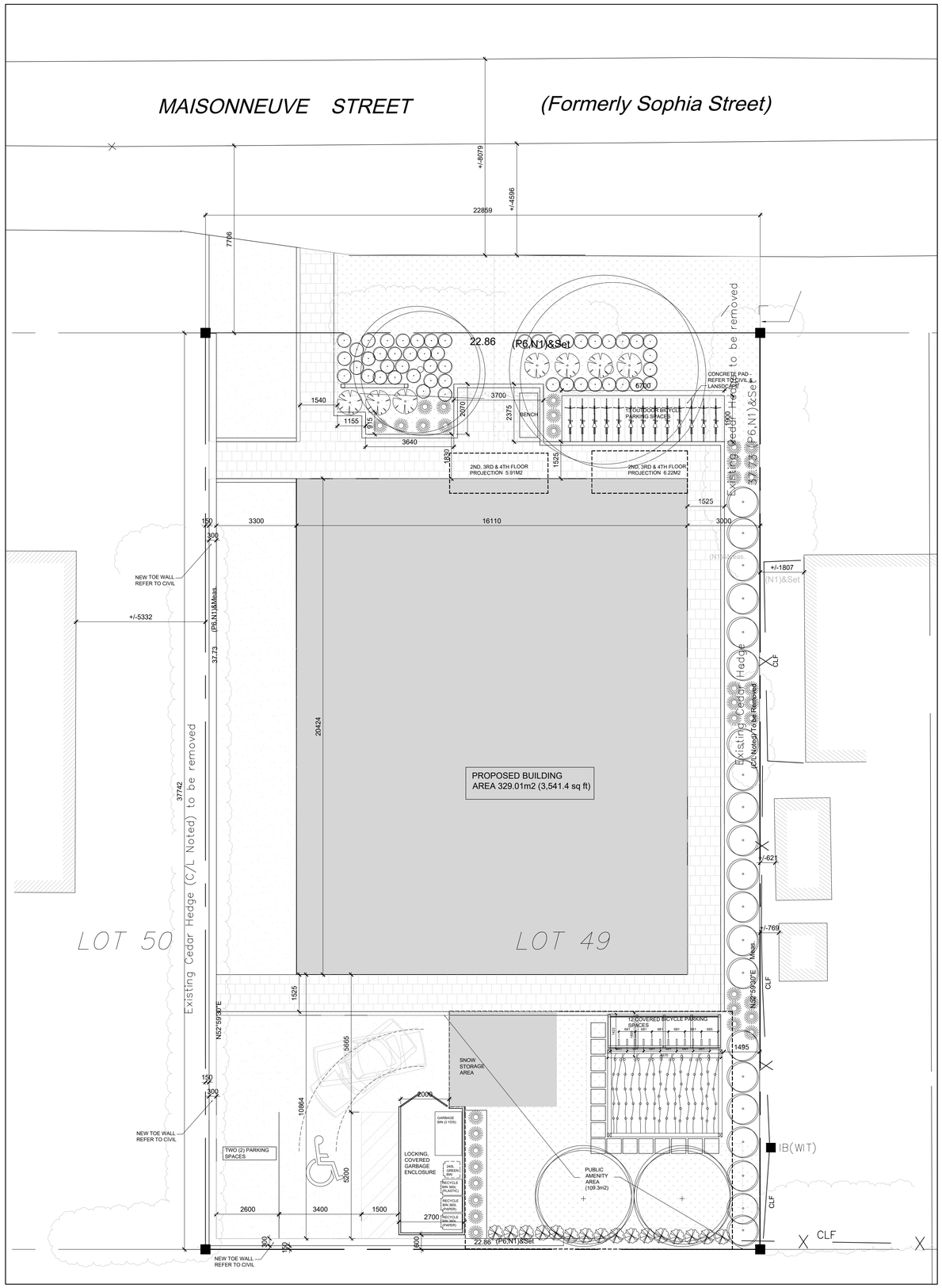
PROJECT NO. 24-002

SCALE AS NOTED

DRAWN BY BR

DRAWING NO. A-050

REVIEWED BY LCL



1 A-100 SITE PLAN
SCALE = 1 : 100

ZONE MECHANISM	ZONE PROVISION DEVELOPMENT	PROPOSED	IN COMPLIANCE (YES/NO)
MINIMUM LOT AREA (M²)	540 M²	862.76 M	YES
MINIMUM LOT WIDTH	18 M	22 859 M	YES
MINIMUM FRONT YARD SETBACK	6 M	6 M	YES
MINIMUM PERCENTAGE OF LANDSCAPED AREA FOR LOT THAT CONTAINS APARTMENT DWELLING - MID-RISE, HIGH-RISE OR LOW-RISE, STACKED DWELLING, RETIREMENT HOME, OR PLANNED UNIT DEVELOPMENT	30% (258)	OVER 30% (340)	YES
MINIMUM CORNER SIDE YARD SETBACK (NOT APPLICABLE)	4.5 M	N/A	N/A
MINIMUM REAR YARD SETBACK	6 M	10 864 M	YES
MINIMUM INTERIOR SIDE YARD SETBACK	3 M	3 M	YES
MAXIMUM BUILDING HEIGHT	15 M	14.8 M	YES
MAXIMUM FLOOR SPACE INDEX	NONE	N/A	YES
MINIMUM WIDTH OF LANDSCAPED AREA AROUND A PARKING LOT (SECTION 110)	3 M (ABUTTING A STREET) NONE (NOT ABUTTING A STREET)	NONE	YES
MINIMUM PARKING	I VISITOR PARKING SPACE	2 SPACES (1 ACCESSIBLE)	YES
MINIMUM BICYCLE PARKING (SECTION 111)	0.5 PER DWELLING UNIT (10 REQUIRED)	12 OUTDOOR - COVERED	YES

GENERAL NOTES:

1. REFER TO SURVEY BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD.
2. PROPERTY BOUNDARIES HAVE BEEN ESTABLISHED FROM SURVEY PREPARED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. JULY 27, 2023.
3. GRADES TO MATCH EXISTING UNLESS OTHERWISE INDICATED ON NEW CONSTRUCTION CIVIL PLANS. NEW GRADES TO TIE INTO EXISTING GRADES. REFER TO CIVIL DRAWINGS.
4. CURBS AND LANDSCAPING SHOWN OUTSIDE OF PROPERTY LINE AND IN EXISTING NATURAL ZONE ARE SHOWN FOR INFORMATION PURPOSES ONLY. SITE VERIFICATION OF ALL CONDITIONS REQUIRED.
5. REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR NEW LANDSCAPING AND TREE PRESERVATION.
6. REFER TO ENGINEERING DRAWINGS FOR EXTENT OF NEW ROAD DEVELOPMENT, SITE LIGHT I11ING, AND MASTER SITE PLAN.
7. ALL NOTES ARE AS PER CITY/ PROVINCIAL STANDARDS, GUIDELINES, BY-LAWS AND DETAIL DRAWINGS.

LOT DESCRIPTION:

PIN: 04425-0027 LT
PARTS OF LOTS 49 AND 50; AS IN CT176790; GLOUCESTER
REGISTERED PLAN 86
CITY OF OTTAWA

AMENITIES

	AREA	QUANTITIES	AREAS (m²)	REQUIRED (m²)	PROPOSED (m²)
AMENITIES	6.0	24	144.0	144.0	145.69
BALCONY 1	5.91	3	17.73		17.73
BALCONY 2	6.22	3	18.66		18.66
OUTDOOR	96.38	1	96.38	72.0	109.3

PROJECT INFORMATION

PROJECT: NEW LOW RISE STACKED APARTMENT DWELLING

MUNICIPAL ADDRESS: 1108 MAISONNEUVE ST, ORLEANS (OTTAWA), ON K1C 1L1

PIN:

ZONING USE: R5A - R5A[2179]H(40), RESIDENTIAL ZONE 5, APARTMENT DWELLING, LOW RISE, STACKED

PROPOSED CONSTRUCTION: NEW 4 - STOREY BUILDING

PROPOSED USE: APARTMENT DWELLING, LOW RISE, STACKED

BUILDING HEIGHT: 14 901m (48.89 FT)

GROSS FLOOR AREA: 329.01 m² (3 541 SQ FT)

SITE AREA: 890.44m² (9,584.57 SQ FT)

PARKING STATISTICS:

STANDARD PARKING:
1 SPACE OF 2.6m W x 5.2m L
(8' - 7" W x 17' - 0" L)

ACCESSIBLE PARKING:
1 SPACE OF 3.66m W X 5.2m L
(12' - 0" W x 17' - 0" L)

TOTAL PARKING SPACES: 2

BICYCLE PARKING: 12 COVERED, HORIZONTAL
13 EXTERIOR, HORIZONTAL

LANDSCAPING:
REQUIRED 15% OF PARKING AREA

TOTAL PARKING AREA: 90 m²
15% LANDSCAPING REQUIRED: 19.95 m²

TOTAL LANDSCAPED AREAS PROVIDED: 382.5 m²

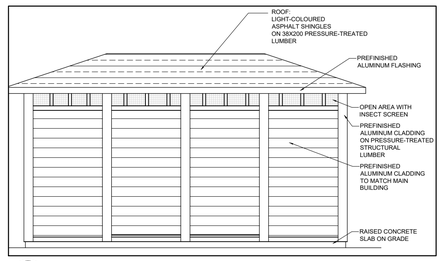
TOTAL AMENITY AREA PROVIDED: 145.69m²

LEGEND

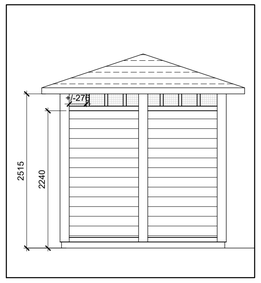
INTERLOCKING PAVERS

LAWN

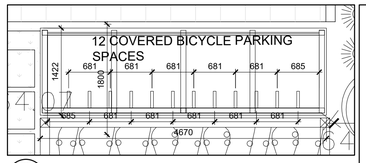
DENOTES THE EXTENT FOR THE AMENITY AREA



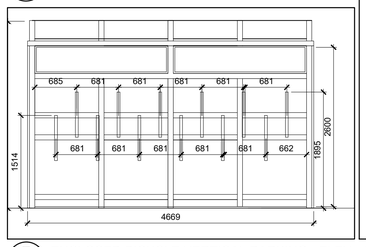
2 A-100 GARBAGE ENCLOSURE - SIDE ELEVATION
SCALE = 1 : 50



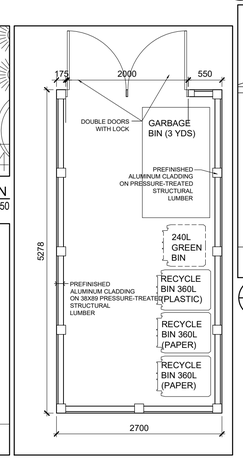
3 A-100 GARBAGE ENCLOSURE
REAR ELEVATION SCALE = 1 : 50



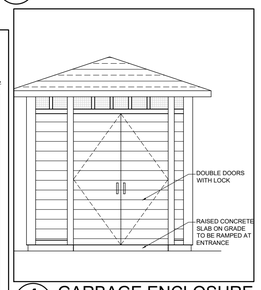
6 A-100 ENCLOSED BICYCLE VERTICAL PARKING - PLAN
SCALE = 1 : 50



7 A-100 ENCLOSED BICYCLE VERTICAL PARKING - ELEV
SCALE = 1 : 50



5 A-100 GARBAGE ENCLOSURE - PLAN
SCALE = 1 : 50



4 A-100 GARBAGE ENCLOSURE
FRONT ELEVATION SCALE = 1 : 50

CLIENT

PROJECT NORTH

TRUE NORTH

SEAL

ARCHITECTURAL

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www.lplaid.com
Tel 613.233.2900
Fax 613.233.1008
159 Holland Ave
Ottawa, Ontario K1Y 0Y2

MECHANICAL + ELECTRICAL

STRUCTURAL

CIVIL

DATE	DESCRIPTION	ISSUE	REV.
2025/07/17	REISSUED FOR PERMIT	7	
2025/07/11	REISSUED FOR SPA	6	
2025/07/09	ISSUED FOR CONSTRUCTION	5	
2025/07/04	REISSUED FOR SPA	5	
2025/05/08	REISSUED FOR SPA	4	
2025/03/25	REISSUED FOR SPA	3	
2025/03/12	ISSUED FOR PERMIT	3	
2025/02/27	ISSUED FOR REVIEW	2	
2024/10/25	REISSUED FOR SPA	1	

PROJECT NAME

PULSE SOCIETIES LTD.

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve St, Ottawa, ON K1C 1L1

DRAWING TITLE

SITE PLAN - CONSTRUCTION

DATE 09.07.2024

PROJECT NO. 24-002

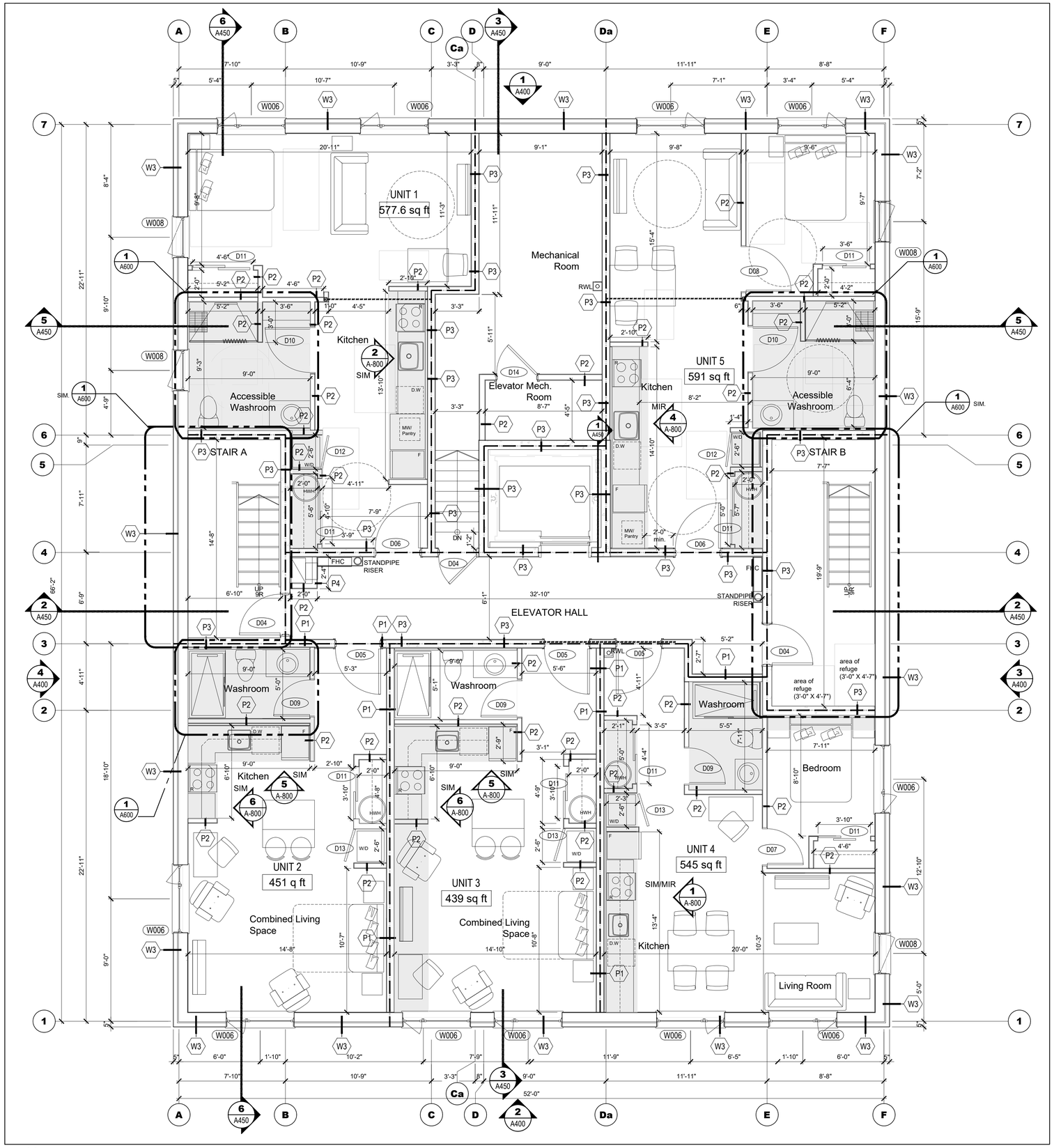
SCALE AS NOTED

DRAWN BY BR

REVIEWED BY LCL

DRAWING NO. A-100

FILE NUMBER D07-12-24-0079 AND PLAN NUMBER # 19276



1 A-200 BASEMENT FLOOR PLAN

SCALE = 1/4" = 1'-0"

GENERAL NOTES :

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UNIT 4: 545 SQ FT
UNIT 5: 591 SQ FT

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UNIT 14: 545 SQ FT
UNIT 15: 569.7 SQ FT

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UNIT 21: 858 SQ FT
UNIT 22: 861.2 SQ FT
UNIT 23: 545 SQ FT
UNIT 24: 548 SQ FT

LEGEND

- DENOTES 1-HOUR FIRE-RATED PARTITION
- DENOTES STRUCTURAL BEAM - REFER TO STRUCTURAL
- DENOTES BULKHEAD TO ACCOMMOD1TE MECHANICAL DUCTING. UNDERSIDE OF BULKHEADS TO BE AT 8'-0" ABOVE FINISHED FLOOR

CLIENT

PROJECT NORTH

TRUE NORTH

SEAL

ARCHITECTURAL

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STRUCTURAL

CIVIL

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2025/07/17	REISSUED FOR PERMIT	5	
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2025/05/27	REISSUED FOR PERMIT	4	
2025/04/28	ISSUED FOR REVIEW	4	
2025/04/10	REISSUED FOR PERMIT	3	
2025/03/12	ISSUED FOR PERMIT	2	
2025/01/27	ISSUED FOR REVIEW	1	

PROJECT NAME

PULSE SOCIETIES LTD.

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve Street, Orleans (Ottawa), ON

DRAWING TITLE

BASEMENT FLOOR PLAN

DATE 09.07.2024

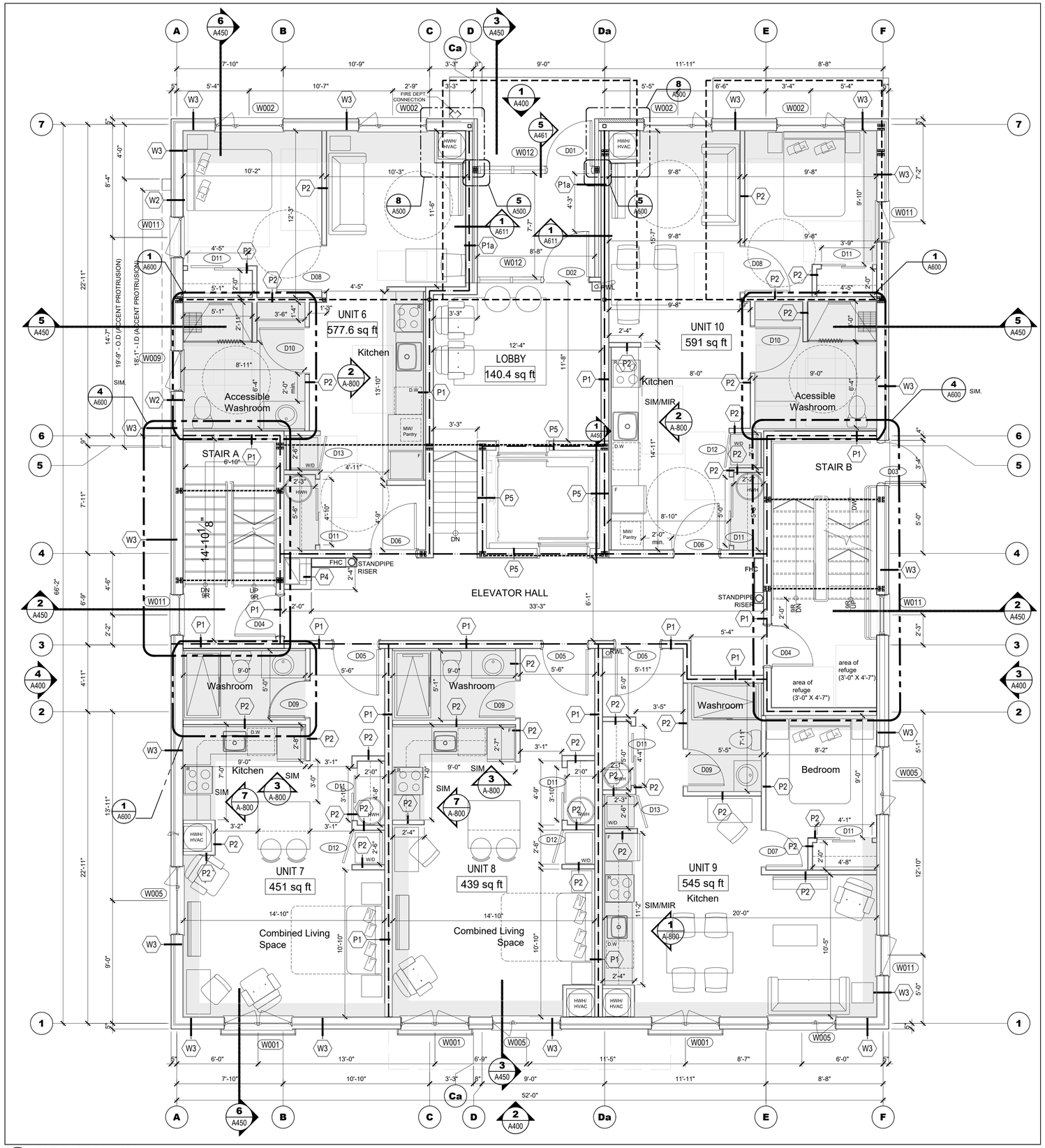
PROJECT NO. 24-002C

SCALE AS NOTED

DRAWN BY BR

DRAWING NO. A-200

REVIEWED BY LCL



1 A-201 1ST FLOOR PLAN

SCALE = 1/4" = 1'-0"

GENERAL NOTES :

1. FOR ALL TECHNICAL ISSUE OR QUESTIONS, CONTACT THE ARCHITECT BEFORE CONTINUING THE WORK
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UNIT 2: 451 SQ FT
UNIT 3: 439 SQ FT
UNIT 4: 545 SQ FT
UNIT 5: 591 SQ FT

UNIT 6: 577.6 SQ FT
UNIT 7: 451 SQ FT
UNIT 8: 439 SQ FT
UNIT 9: 545 SQ FT
UNIT 10: 591 SQ FT

UNIT 11: 858 SQ FT
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UNIT 14: 545 SQ FT
UNIT 15: 569.7 SQ FT

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UNIT 20: 569.7 SQ FT

UNIT 21: 858 SQ FT
UNIT 22: 861.2 SQ FT
UNIT 23: 545 SQ FT
UNIT 24: 548 SQ FT

LEGEND

- DENOTES 1-HOUR FIRE-RATED PARTITION
- DENOTES STRUCTURAL BEAM - REFER TO STRUCTURAL
- DENOTES BULKHEAD TO ACCOMMOD1TE MECHANICAL DUCTING. UNDERSIDE OF BULKHEADS TO BE AT 8'-0" ABOVE FINISHED FLOOR

CLIENT

PROJECT NORTH

TRUE NORTH

SEAL

ARCHITECTURAL

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www.ldsud.com
Tel 613.233.2900
Fax 613.233.1008
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MECHANICAL + ELECTRICAL

STRUCTURAL

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2025/04/28	ISSUED FOR REVIEW	4	
2025/04/10	REISSUED FOR PERMIT	3	
2025/03/12	ISSUED FOR PERMIT	2	
2025/01/27	ISSUED FOR REVIEW	1	

PROJECT NAME

PULSE SOCIETIES LTD.

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve Street, Orleans (Ottawa), ON

DRAWING TITLE

1ST FLOOR PLAN

DATE 23.08.2024

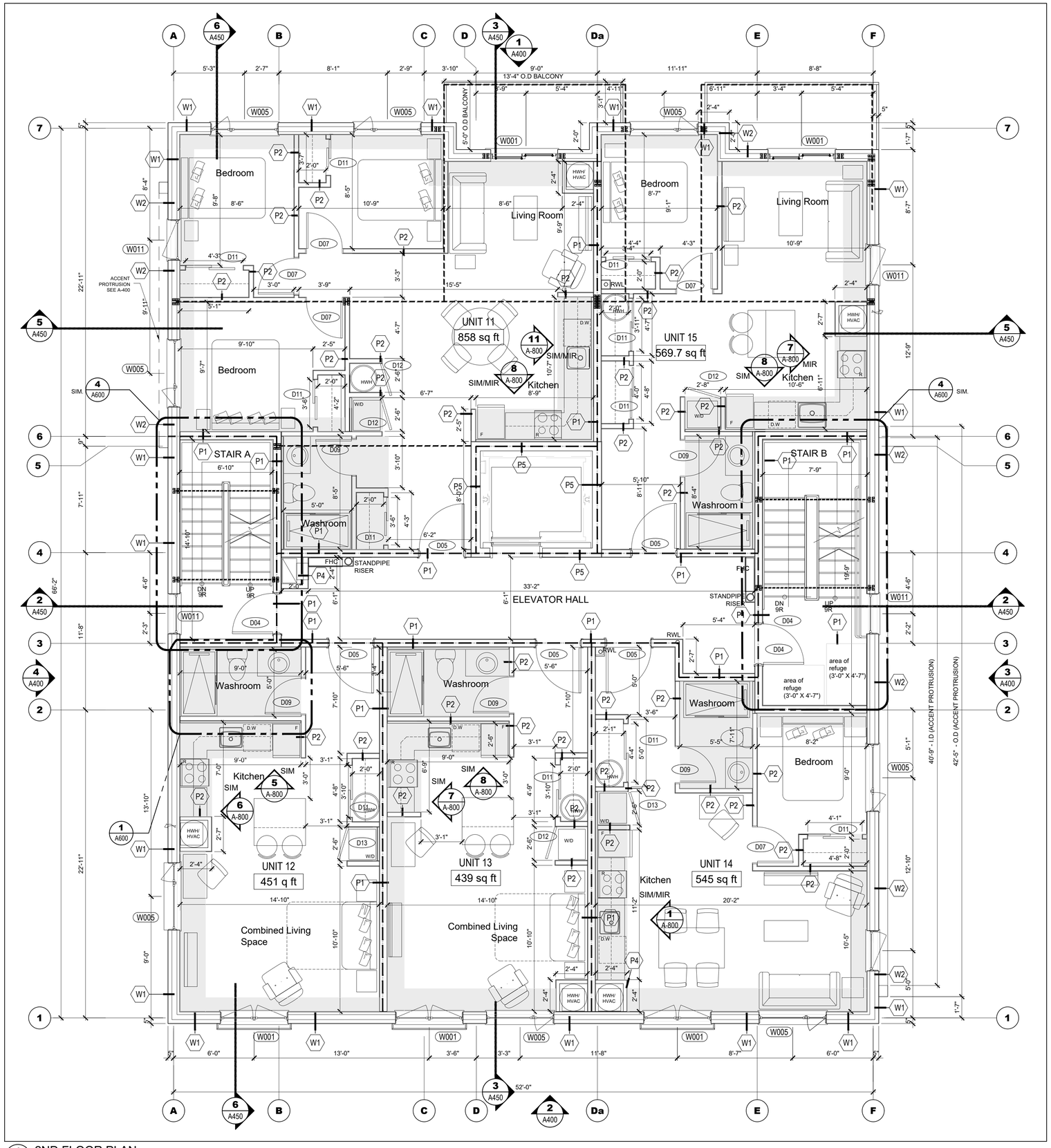
PROJECT NO. 24-002C

SCALE AS NOTED

DRAWN BY BR

DRAWING NO. A-201

REVIEWED BY LCL



1 A-201 2ND FLOOR PLAN

SCALE = 1/4" = 1'-0"

GENERAL NOTES :

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UNIT 3: 439 SQ FT
UNIT 4: 545 SQ FT
UNIT 5: 591 SQ FT

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UNIT 15: 569.7 SQ FT

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UNIT 21: 858 SQ FT
UNIT 22: 861.2 SQ FT
UNIT 23: 545 SQ FT
UNIT 24: 548 SQ FT

LEGEND

- DENOTES 1-HOUR FIRE-RATED PARTITION
- DENOTES STRUCTURAL BEAM - REFER TO STRUCTURAL
- DENOTES BULKHEAD TO ACCOMMOD1TE MECHANICAL DUCTING. UNDERSIDE OF BULKHEADS TO BE AT 8'-0" ABOVE FINISHED FLOOR

CLIENT

PROJECT NORTH

TRUE NORTH

SEAL

ARCHITECTURAL

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MECHANICAL + ELECTRICAL

STRUCTURAL

CIVIL

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2025/04/10	REISSUED FOR PERMIT	3	
2025/03/06	ISSUED FOR PERMIT	2	
2025/01/27	ISSUED FOR REVIEW	1	

PROJECT NAME

PULSE SOCIETIES LTD.

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve Street, Orleans (Ottawa), ON

DRAWING TITLE

2ND FLOOR PLAN

DATE 09.07.2024

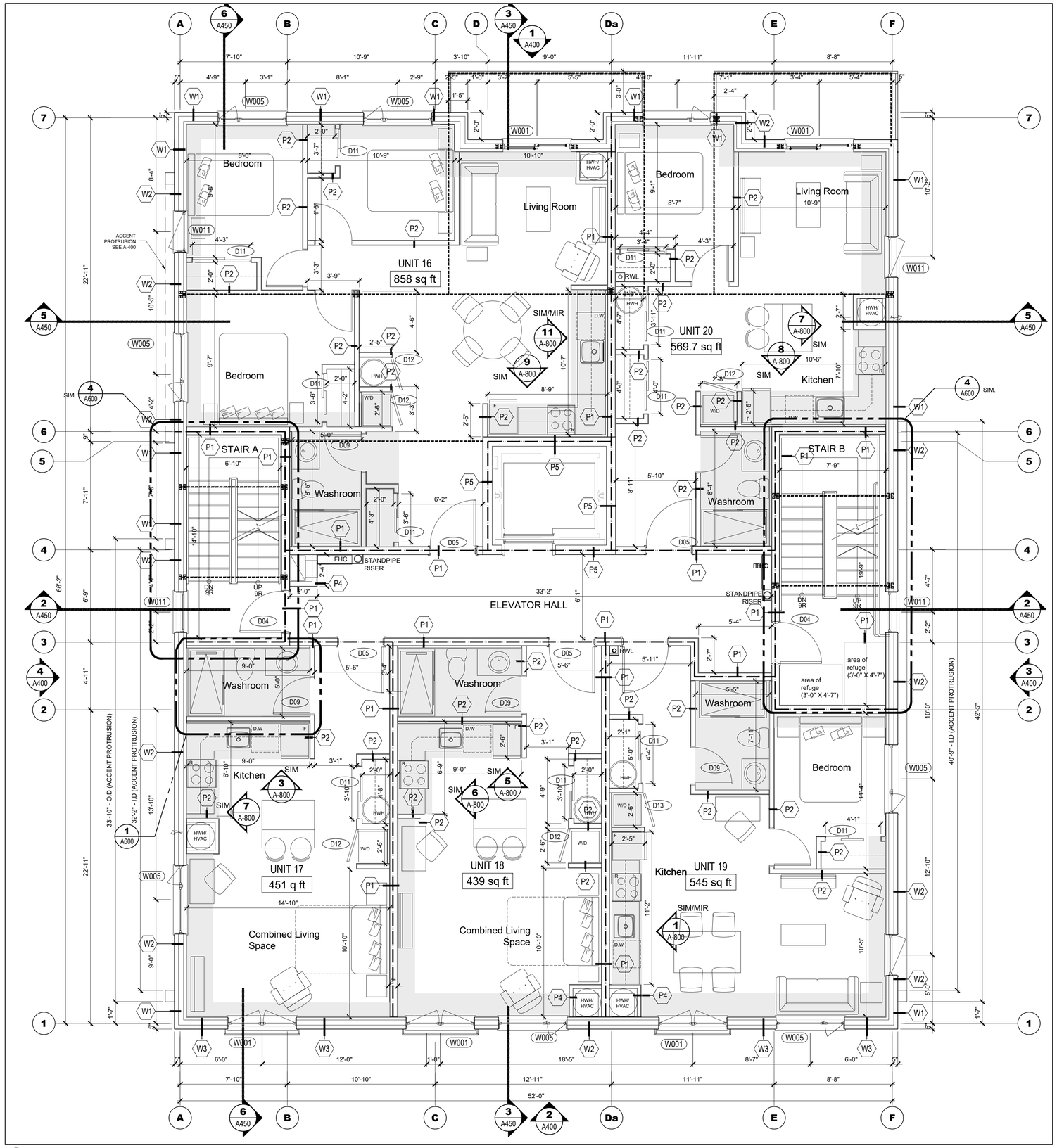
PROJECT NO. 24-002C

SCALE AS NOTED

DRAWN BY BR

DRAWING NO. A-202

REVIEWED BY LCL



1 A-201 3RD FLOOR PLAN

SCALE = 1/4" = 1'-0"

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LEGEND

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- DENOTES STRUCTURAL BEAM - REFER TO STRUCTURAL
- DENOTES BULKHEAD TO ACCOMMOD1TE MECHANICAL DUCTING. UNDERSIDE OF BULKHEADS TO BE AT 8'-0" ABOVE FINISHED FLOOR

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PROJECT NORTH

TRUE NORTH

SEAL

ARCHITECTURAL

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CIVIL

DATE	DESCRIPTION	ISSUE	REV.
2025/07/17	REISSUED FOR PERMIT	5	
2025/07/09	ISSUED FOR CONSTRUCTION	4	
2025/04/28	ISSUED FOR REVIEW	4	
2022/04/10	REISSUED FOR PERMIT	3	
2022/03/06	ISSUED FOR PERMIT	2	
2025/01/27	ISSUED FOR REVIEW	1	

PROJECT NAME

PULSE SOCIETIES LTD.

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve Street, Orleans (Ottawa), ON

DRAWING TITLE

3RD FLOOR PLAN

DATE 09.07.2024

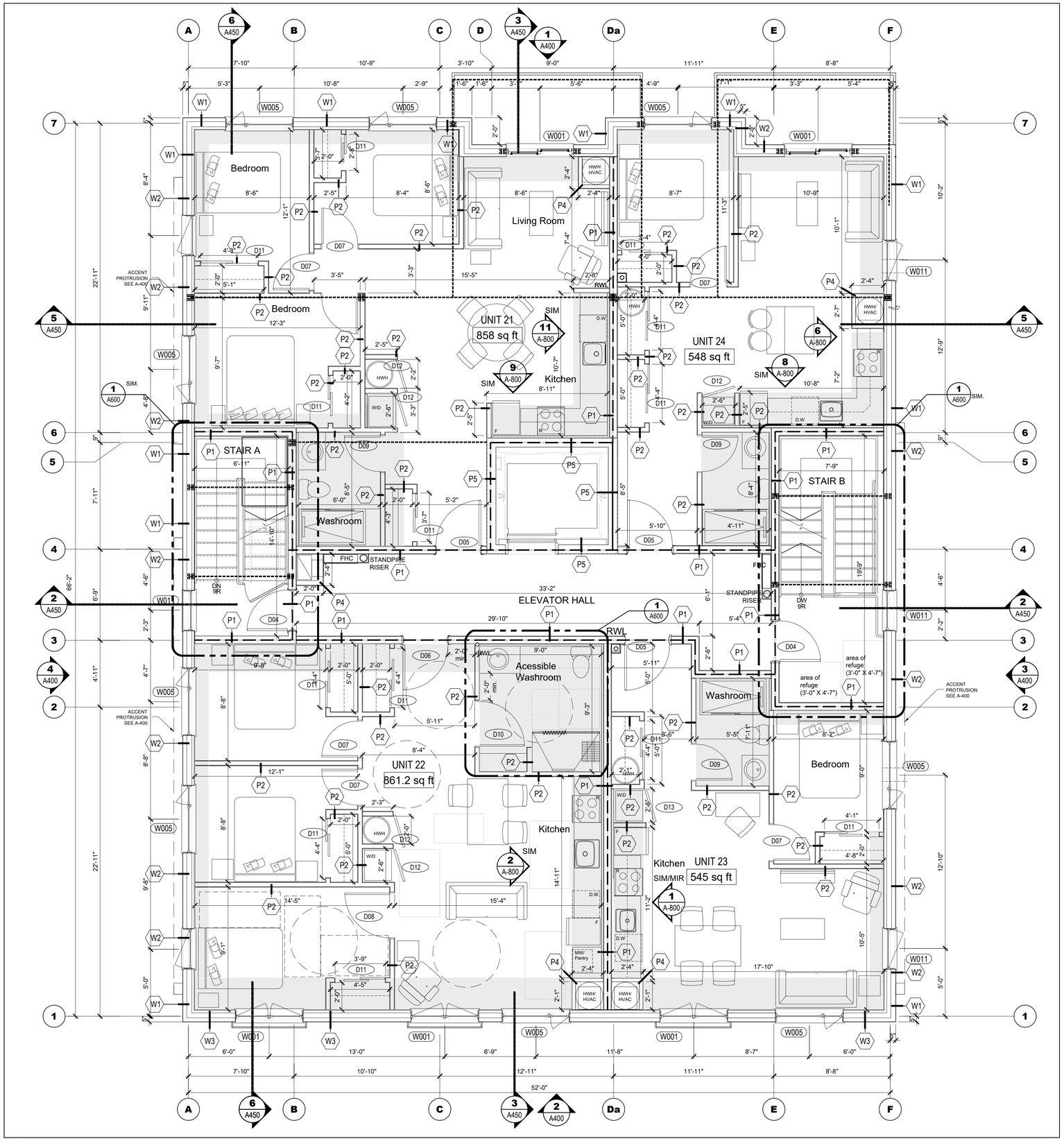
SCALE AS NOTED

DRAWN BY BR

REVIEWED BY LCL

PROJECT NO. 24-002C

DRAWING NO. A-203



1 A-201 4TH FLOOR PLAN

SCALE = 1/4" = 1'-0"

GENERAL NOTES :

1. FOR ALL TECHNICAL ISSUE OR QUESTIONS, CONTACT THE ARCHITECT BEFORE CONTINUING THE WORK
2. THE CONTRACTOR IS RESPONSIBLE TO CONFIRM ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK SITE AND WILL BE SOLELY RESPONSIBLE FOR THE ACCURACY OF MEASUREMENTS AND OBSERVATIONS.
3. CONTRACTOR WILL REPORT ANY ERRORS, OMISSIONS OR DEFECTS TO THE ARCHITECT BEFORE THE COMMENCEMENT OF WORK. VERIFY EXISTING CONDITIONS ON SITE AND ADJUST AS NECESSARY
4. ALL WORK SHALL BE PERFORMED:
   - ALL WORK IS TO BE DONE IN ACCORD1NCE WITH THE LATEST EDITION OF ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE REGULATIONS.
   - IN ACCORD1NCE WITH MANUFACTURERS' LITERATURE FOR INSTALLATION AND MAINTENANCE.
5. DO NOT SCALE DRAWINGS. IF NO DIMENSIONS IS GIVEN REFER TO THE AUTHOR OF THE DRAWINGS.
6. REFER TO STRUCTURAL DRAWINGS FOR ALL DETAILS REGARDING FOOTINGS, FOUND1TIONS, WOOD FRAME STRUCTURE AND ALL OTHER STRUCTURAL COMPONENTS OF THE BUILDING.
7. REFER TO CONSULTING ENGINEERING CONSULTANTS FOR ANY ISSUES AFFECTING STRUCTURAL AND/OR GEOTECHNICAL (SOILS).
8. IT IS FORBIDDEN TO REPRODUCE IN WHOLE OR IN PART THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF THE AUTHOR. L+D ARCHITECTS OWN EXCLUSIVE COPYRIGHTS ON THIS DOCUMENT.
9. NO COPY OF THIS PLAN WITHOUT THE WRITTEN CONSENT IS PERMITTED. ANY OFFENDER IS SUBJECT TO PROSECUTION. IF ADDITIONAL COPIES ARE REQUIRED, PLACE A REQUEST WITH THE ARCHITECTS. PRINTING COST WILL APPLY .
10. FOUND1TION WALLS SHOULD NOT BE B1CKFILLED UNTIL CONCRETE HAS REACHED ITS SPECIFIED 28 D1YS CURING STRENGTH AND STRUCTURAL FLOOR FRAMING INCLUDING PLYWOOD SUBFLOOR IS REQUIRED TO STABILIZE THE WALL PRIOR TO B1CKFILL.
11. REFER TO STRUCTURAL DRAWINGS FOR ALL FOUND1TION, FOOTINGS, COLUMNS, BEAMS, ETC.
12. REFER TO THE MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL MECHANICAL AND ELECTRICAL ELEMENTS.

UNIT 1: 577.6 SQ FT
UNIT 2: 451 SQ FT
UNIT 3: 439 SQ FT
UNIT 4: 545 SQ FT
UNIT 5: 591 SQ FT

UNIT 6: 577.6 SQ FT
UNIT 7: 451 SQ FT
UNIT 8: 439 SQ FT
UNIT 9: 545 SQ FT
UNIT 10: 591 SQ FT

UNIT 11: 858 SQ FT
UNIT 12: 451 SQ FT
UNIT 13: 439 SQ FT
UNIT 14: 545 SQ FT
UNIT 15: 569.7 SQ FT

UNIT 16: 858 SQ FT
UNIT 17: 451 SQ FT
UNIT 18: 439 SQ FT
UNIT 19: 545 SQ FT
UNIT 20: 569.7 SQ FT

UNIT 21: 858 SQ FT
UNIT 22: 861.2 SQ FT
UNIT 23: 545 SQ FT
UNIT 24: 548 SQ FT

LEGEND

- DENOTES 1-HOUR FIRE-RATED PARTITION
- DENOTES STRUCTURAL BEAM - REFER TO STRUCTURAL
- DENOTES BULKHEAD TO ACCOMMOD1TE MECHANICAL DUCTING. UNDERSIDE OF BULKHEADS TO BE AT 8'-0" ABOVE FINISHED FLOOR

CLIENT

PROJECT NORTH

TRUE NORTH

SEAL

ARCHITECTURAL

(L+D)
LALANDE + DOYLE ARCHITECTS INC.
www.lplusd.com
Tel 613.233.2900
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159 Holland Ave
Ottawa, Ontario K1Y 0Y2

MECHANICAL + ELECTRICAL

STRUCTURAL

CIVIL

DATE	DESCRIPTION	ISSUE	REV.
2025/07/17	REISSUED FOR PERMIT	5	
2025/07/09	ISSUED FOR CONSTRUCTION	4	
2025/04/28	ISSUED FOR REVIEW	4	
2025/04/10	REISSUED FOR PERMIT	3	
2025/03/06	ISSUED FOR PERMIT	2	
2025/01/27	ISSUED FOR REVIEW	1	

PROJECT NAME

PULSE SOCIETIES LTD.

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve Street, Orleans (Ottawa), ON

DRAWING TITLE

4TH FLOOR PLAN

DATE 09.07.2024

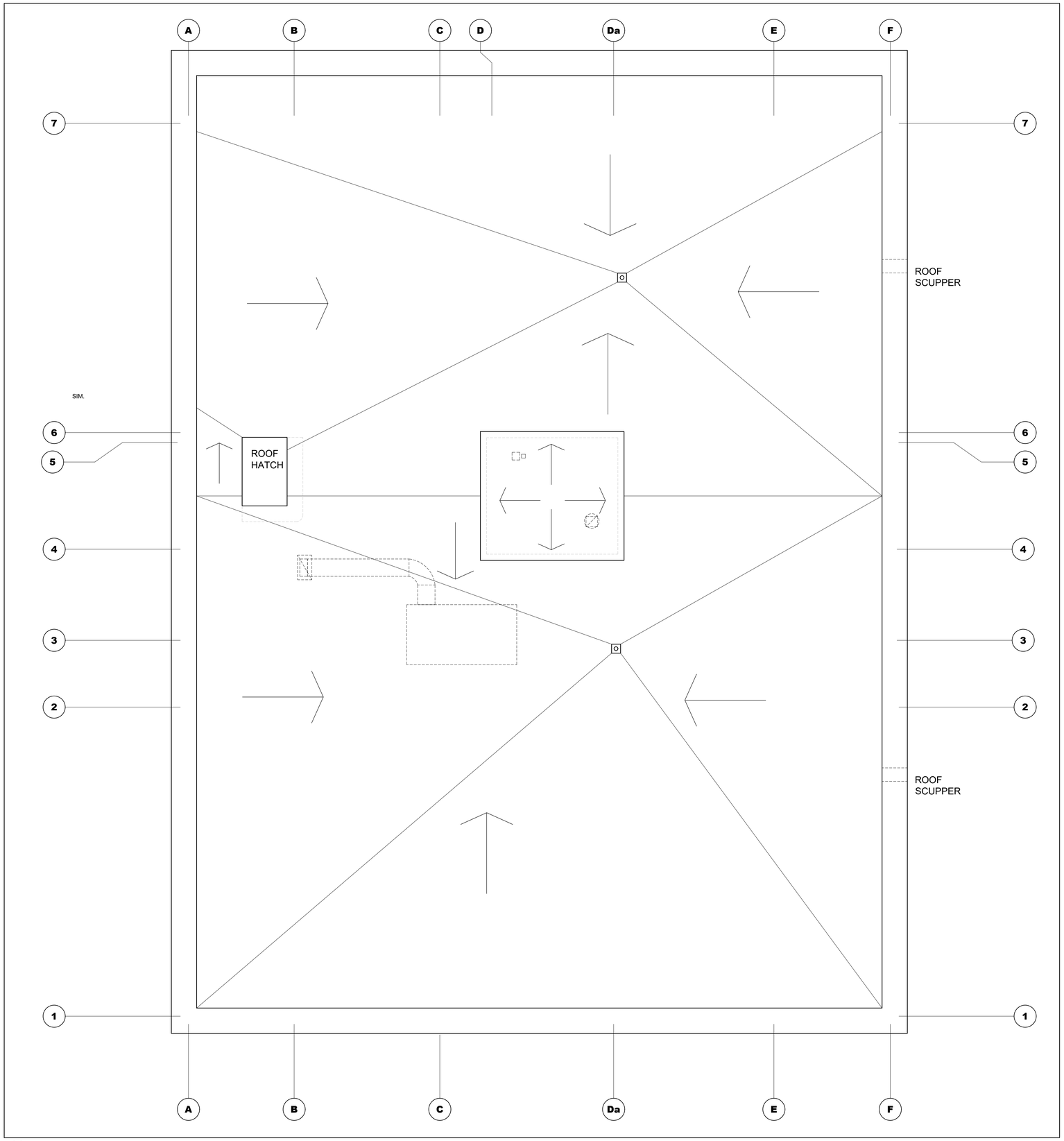
PROJECT NO. 24-002C

SCALE AS NOTED

DRAWN BY BR

REVIEWED BY LCL

DRAWING NO. A-204



1 4TH FLOOR PLAN
A-201
SCALE = 1/4" = 1'-0"

CLIENT

PROJECT NORTH

TRUE NORTH

SEAL

ARCHITECTURAL

(L+D)
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Ottawa, Ontario K1Y 0Y2

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STRUCTURAL

CIVIL

DATE	DESCRIPTION	ISSUE	REV.
2025/07/17	REISSUED FOR PERMIT	4	
2025/07/09	ISSUED FOR CONSTRUCTION	4	
2025/03/12	ISSUED FOR PERMIT	2	
2025/01/27	ISSUED FOR REVIEW	1	

PROJECT NAME

PULSE SOCIETIES LTD.

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve Street, Orleans (Ottawa), ON

DRAWING TITLE

ROOF PLAN

DATE
09.07.2024

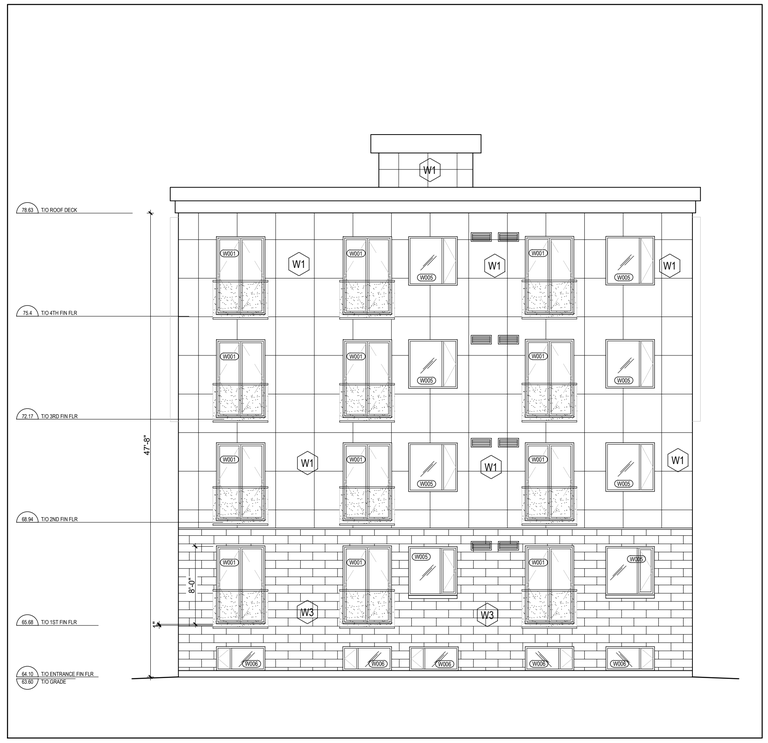
SCALE
AS NOTED

PROJECT NO.
24-002C

DRAWN BY
BR

REVIEWED BY
LCL

DRAWING NO.
A-250



2 A-400 SOUTH FACADE

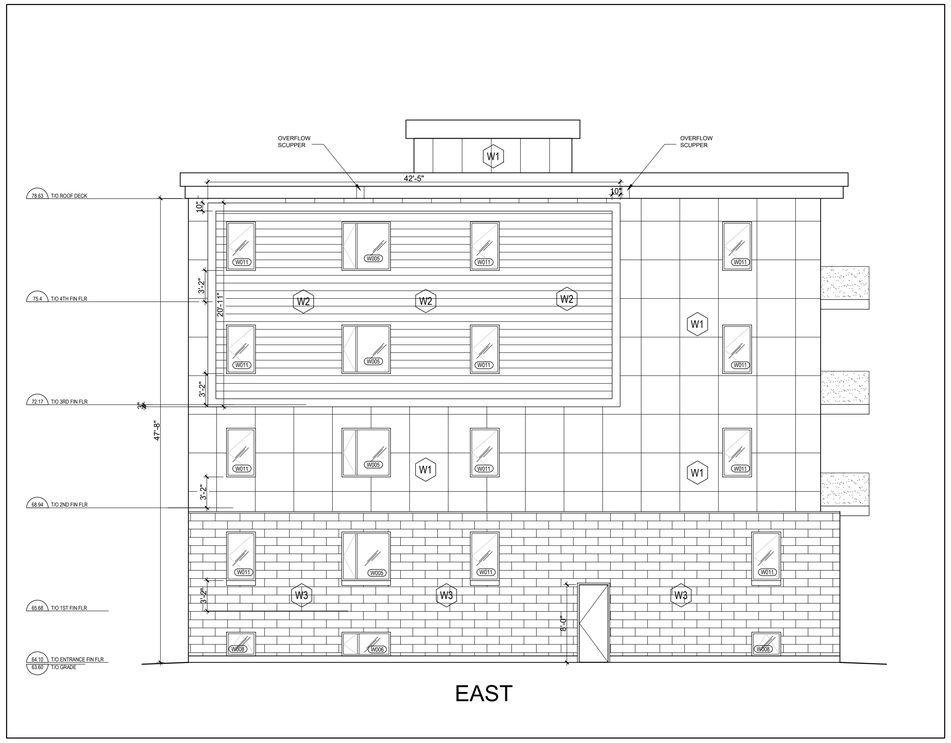
SCALE = 1/8" = 1'-0"

1 A-400 NORTH FACADE

SCALE = 1/8" = 1'-0"

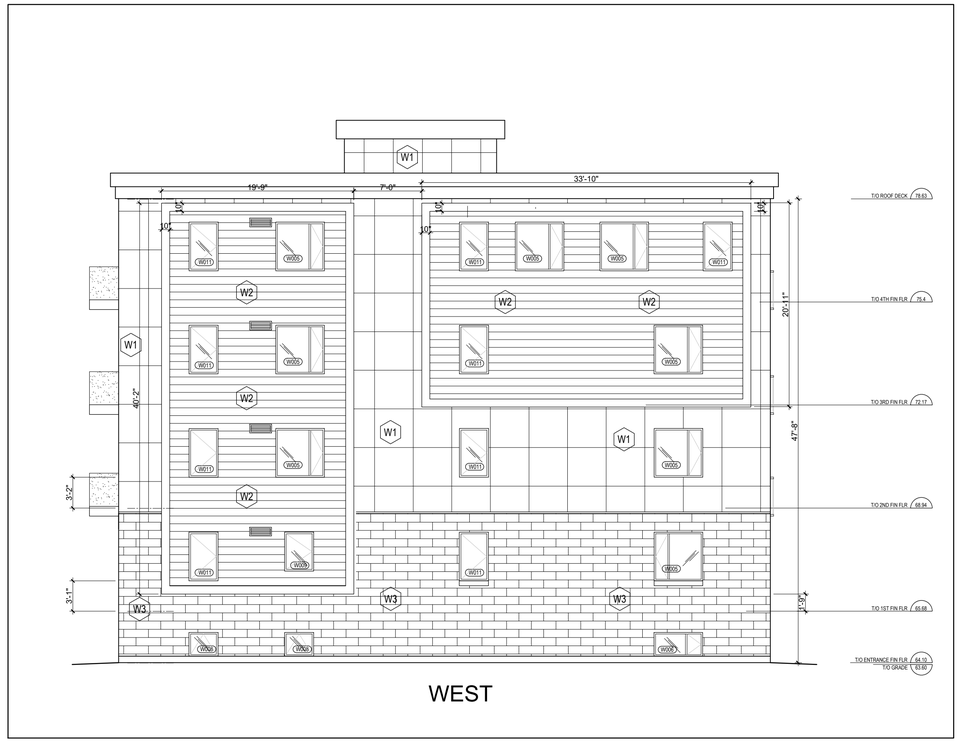
LEGEND:

- BRICK
- PREFINISHED ALUMINUM CLADDING
- PREFINISHED CEMENT CLADDING



4 A-400 EAST FACADE

SCALE = 1/8" = 1'-0"



3 A-400 WEST FACADE

SCALE = 1/8" = 1'-0"

CLIENT

PROJECT NORTH

TRUE NORTH

SEAL

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MECHANICAL + ELECTRICAL

STRUCTURAL

CIVIL

DATE	DESCRIPTION	ISSUE	REV.
2025/07/17	REISSUED FOR PERMIT	3	
2025/07/09	REISSUED FOR CONSTRUCTION	3	
2025/05/27	REISSUED FOR PERMIT	3	
2025/05/12	REISSUED FOR SPA	3	
2025/03/12	ISSUED FOR PERMIT	2	
27/02/2025	ISSUED FOR REVIEW	1	

PROJECT NAME

PULSE SOCIETES LTD.

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve Street, Orleans (Ottawa), ON

DRAWING TITLE

ELEVATIONS

DATE 10/07/2024

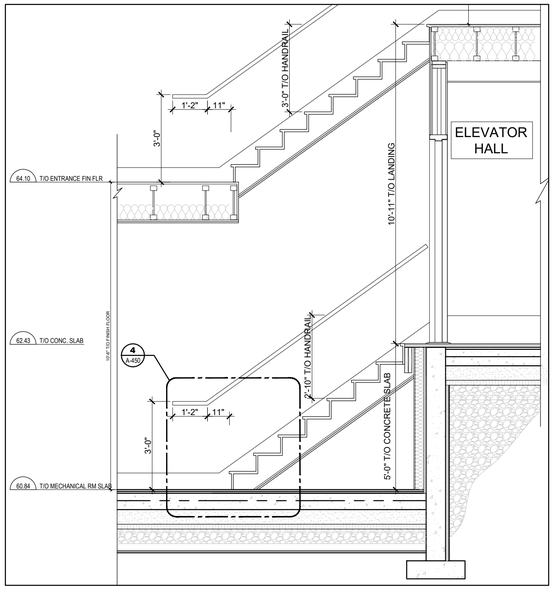
PROJECT NO. 24-002C

SCALE AS NOTED

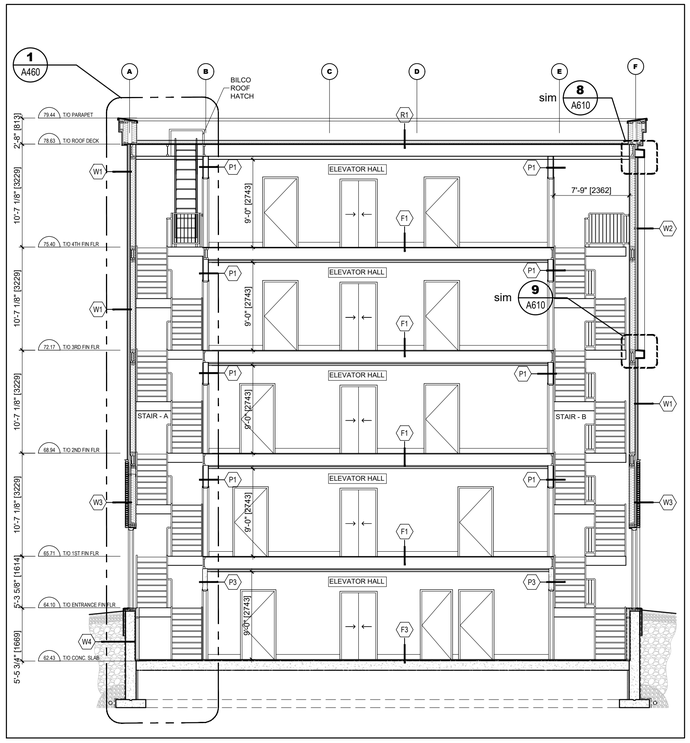
DRAWN BY BR

DRAWING NO. A-400

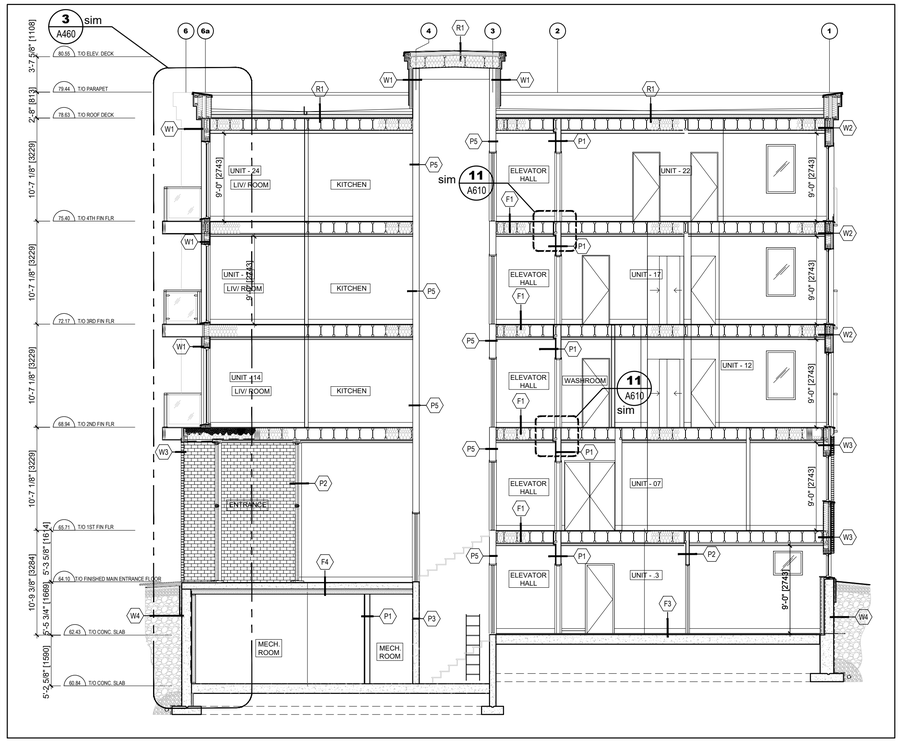
REVIEWED BY LCL



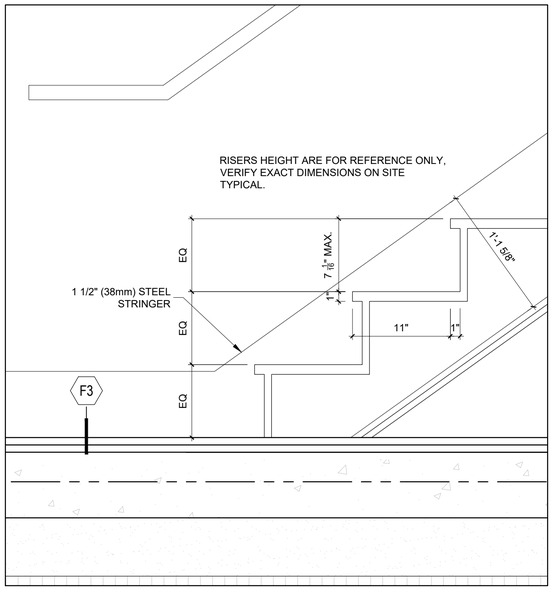
1 A-450 SECTION DETAIL
SCALE = 3/8" = 1'-0"



2 A-450 CROSS-SECTION
SCALE = 1/8" = 1'-0"



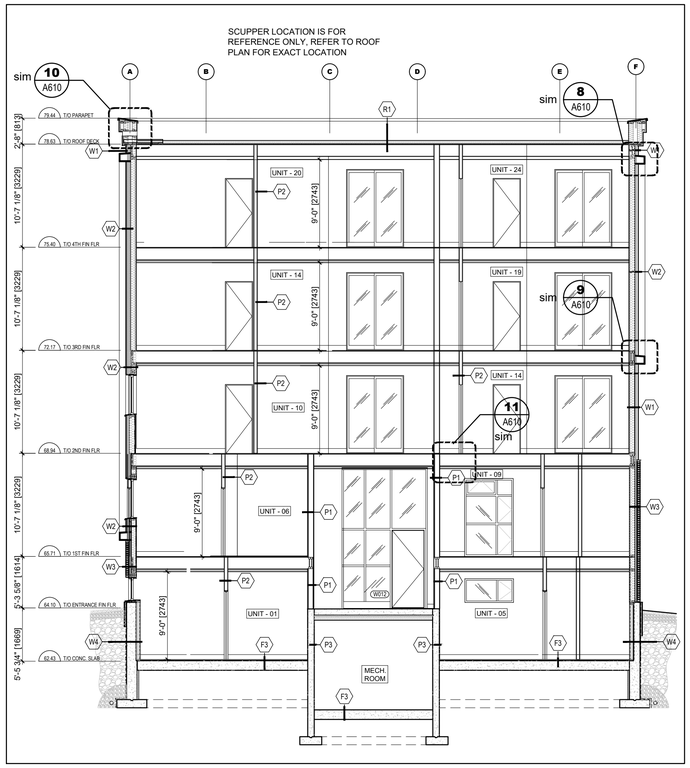
3 A-450 LONGITUDINAL SECTION
SCALE = 1/8" = 1'-0"



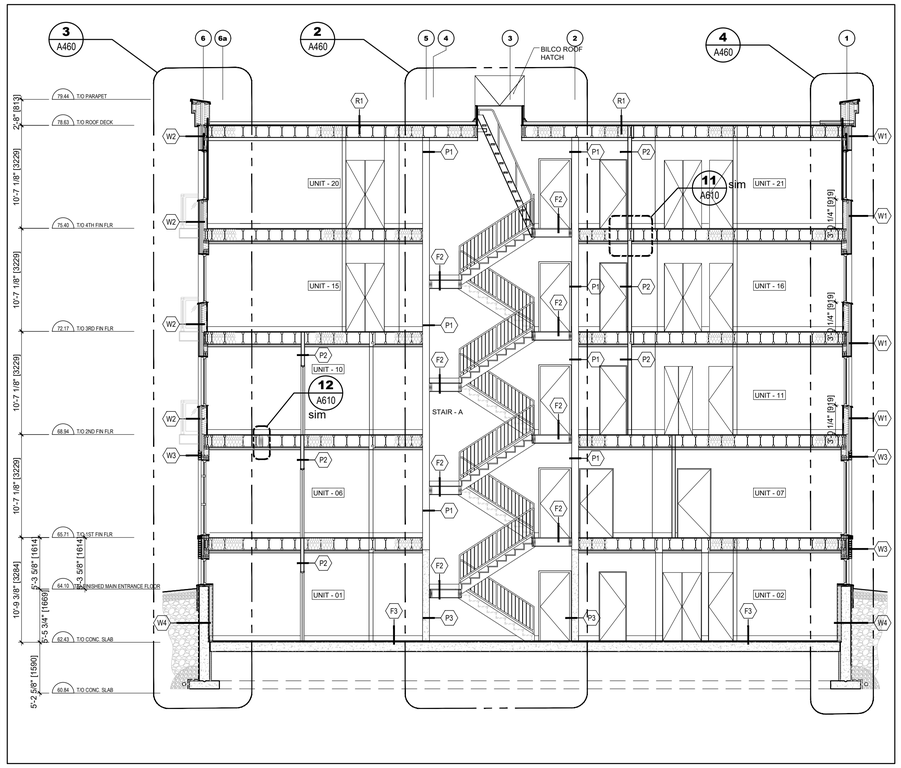
4 A-450 STAIR SECTION DETAIL TYPICAL
SCALE = 1-1/2" = 1'-0"

NOTES:

- STAIRS, HAND RAILS AND GUARDS SHALL COMPLY TO 3.3.4.7 OF THE LATEST EDITION OF THE ONTARIO BUILDING CODE (OBC)
- THREADS SHALL HAVE A RUN NOT LESS THAN 280 (11") AND NOT MORE THAN 355 (14") EXCLUDING NOSING TYPICAL
- RISERS SHALL HAVE A HEIGHT OF NOT LESS THAN 125mm (4 15/16") AND NOT MORE THAN 180mm (7 1/16") BETWEEN SUCCESSIVE TREADS
- GUARDS SHALL BE CONTINUOUS AND HAVE A HEIGHT OF NOT LESS THAN 1070mm (42 1/8")
- HANDRAIL SHALL BE CONTINUOUS AND HAVE A HEIGHT OF NOT LESS THAN 915 (36")



5 A-450 SECTION DETAIL
SCALE = 1/8" = 1'-0"



6 A-450 STAIR SECTION DETAIL TYPICAL
SCALE = 1/8" = 1'-0"

CLIENT

PROJECT NORTH

SEAL

TRUE NORTH

ARCHITECTURAL

LALANDE + DOYLE ARCHITECTS INC.
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159 Holland Ave
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MECHANICAL + ELECTRICAL

STRUCTURAL

CIVIL

DATE	DESCRIPTION	ISSUE	REV.
17/07/2025	REISSUED FOR PERMIT	4	
09/07/2025	ISSUED FOR CONSTRUCTION	4	
27/05/2025	REISSUED FOR PERMIT	4	
10/04/5012	REISSUED FOR COORDINATION	4	
10/04/2025	REISSUED FOR PERMIT	3	
12/03/2025	ISSUED FOR PERMIT	2	
27/02/2025	ISSUED FOR REVIEW	1	

PROJECT NAME

PULSE SOCIETIES LTD

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve Street, Orleans (Ottawa), ON

DRAWING TITLE

BUILDING SECTIONS AND DETAILS

DATE 22.05.2024

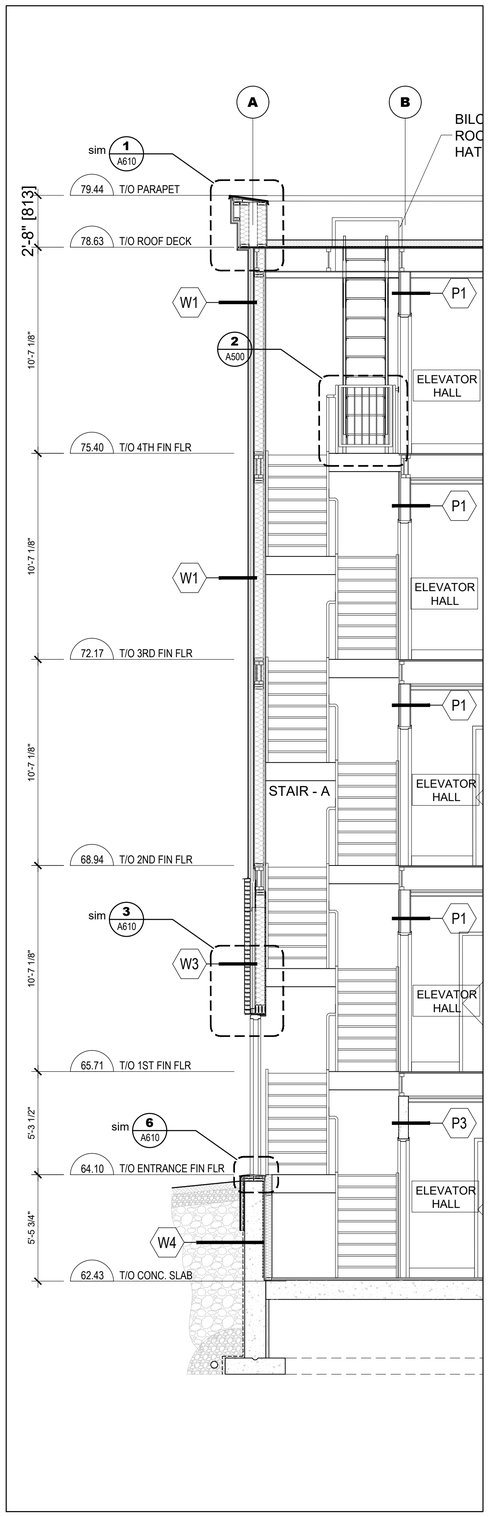
PROJECT NO. 24-002C

SCALE AS NOTED

DRAWN BY BR

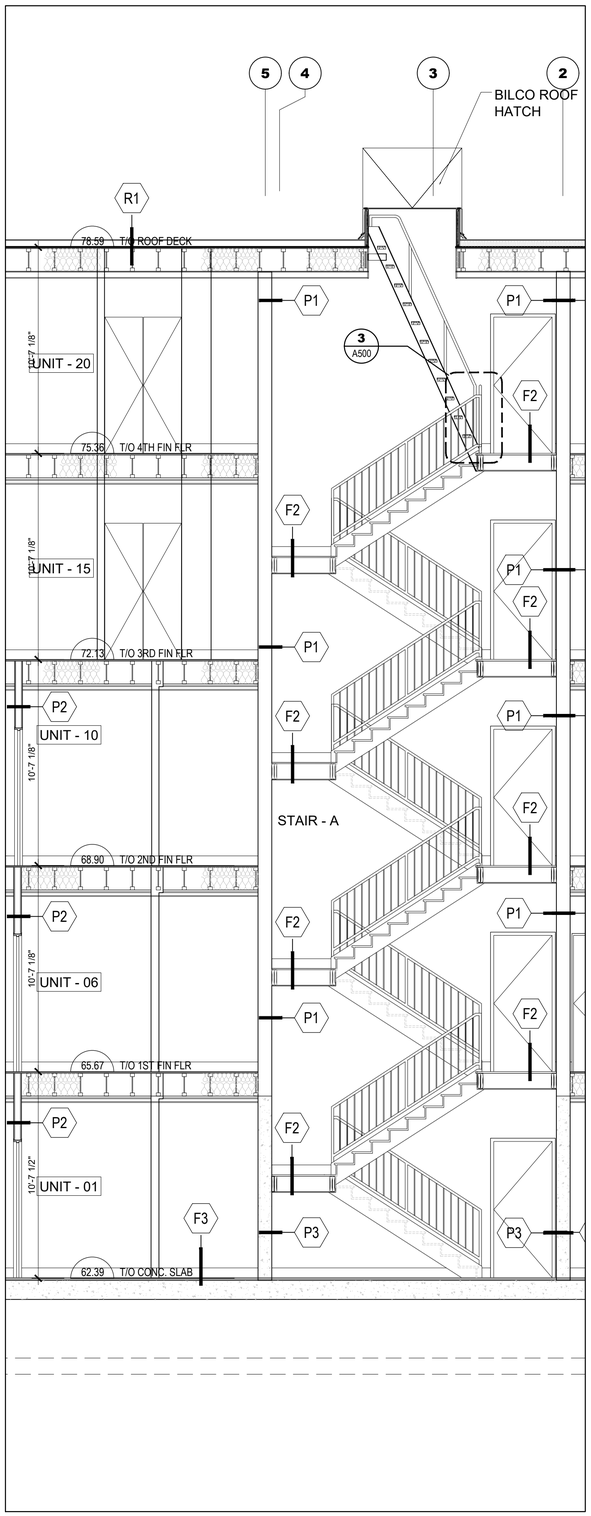
DRAWING NO. A-450

REVIEWED BY LCL



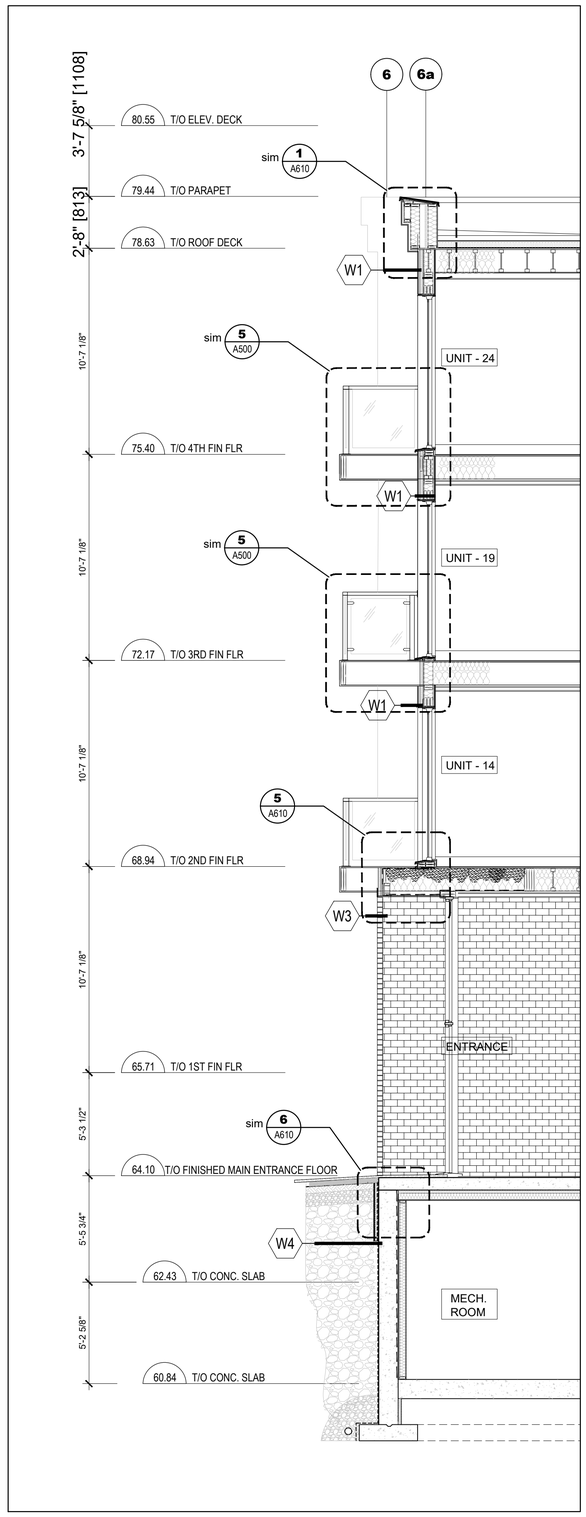
1 A-460 WALL SECTION

SCALE = 1/4" = 1'-0"



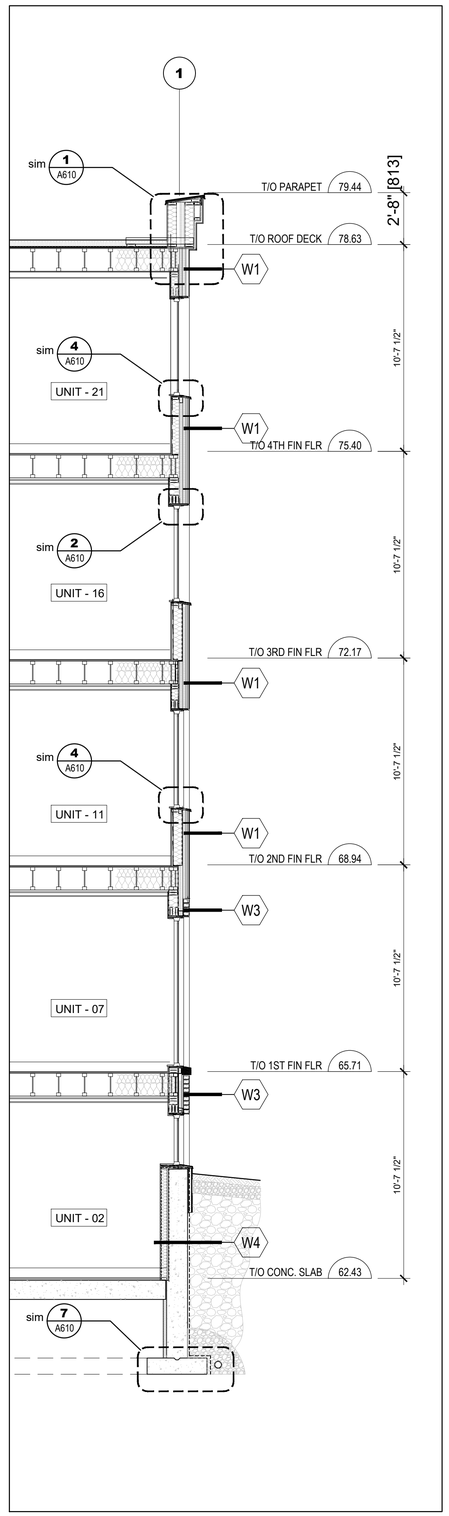
2 A-460 WALL SECTION

SCALE = 1/4" = 1'-0"



3 A-460 WALL SECTION

SCALE = 1/4" = 1'-0"



4 A-460 WALL SECTION

SCALE = 1/4" = 1'-0"

CLIENT

PROJECT NORTH

TRUE NORTH

SEAL

ARCHITECTURAL

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LALANDE + DOYLE ARCHITECTS INC.
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Ottawa, Ontario K1Y 0Y2

MECHANICAL + ELECTRICAL

STRUCTURAL

CIVIL

DATE	DESCRIPTION	ISSUE	REV.
17/07/2025	REISSUED FOR PERMIT	3	
09/07/2025	ISSUED FOR CONSTRUCTION	3	
10/04/2025	REISSUED FOR PERMIT	3	
12/03/2025	ISSUED FOR PERMIT	2	
27/02/2025	ISSUED FOR REVIEW	1	

PROJECT NAME

PULSE SOCIETIES LTD

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve Street, Orleans (Ottawa), ON

DRAWING TITLE

TYPICAL - WALL & STAIRS SECTIONS

DATE 22.05.2024

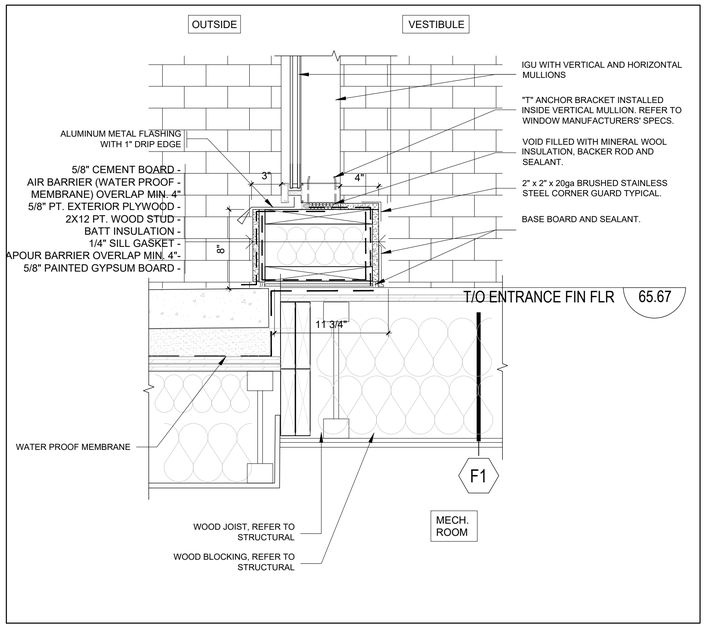
PROJECT NO. 24-002C

SCALE AS NOTED

DRAWN BY BR

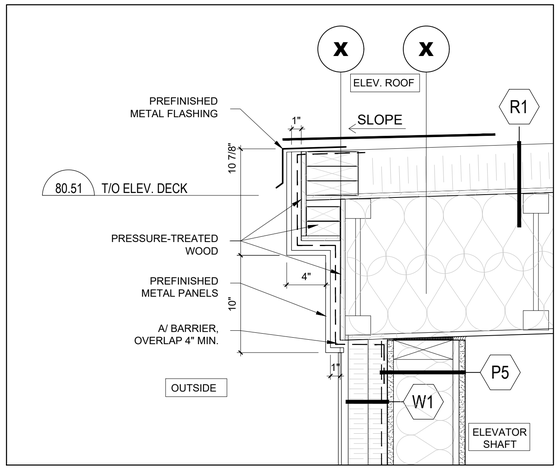
REVIEWED BY LCL

DRAWING NO. A-460



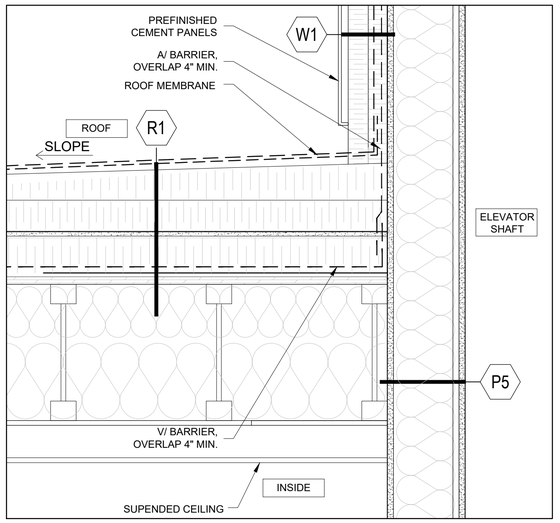
5 A-461 TYPICAL - CURVE DETAIL

SCALE = 1 1/2" = 1'-0"



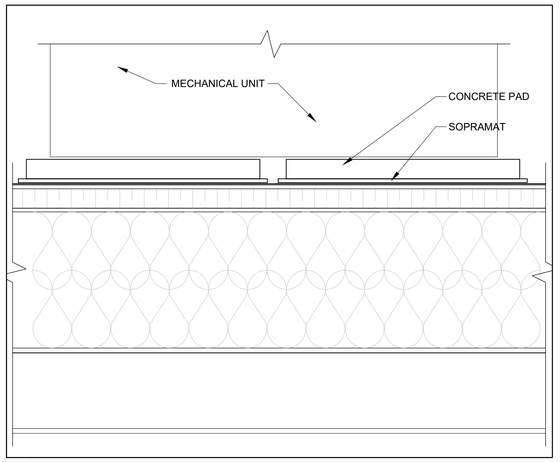
2 A-461 TYPICAL - ELEV. - PARAPET DETAIL

SCALE = 1 1/2" = 1'-0"



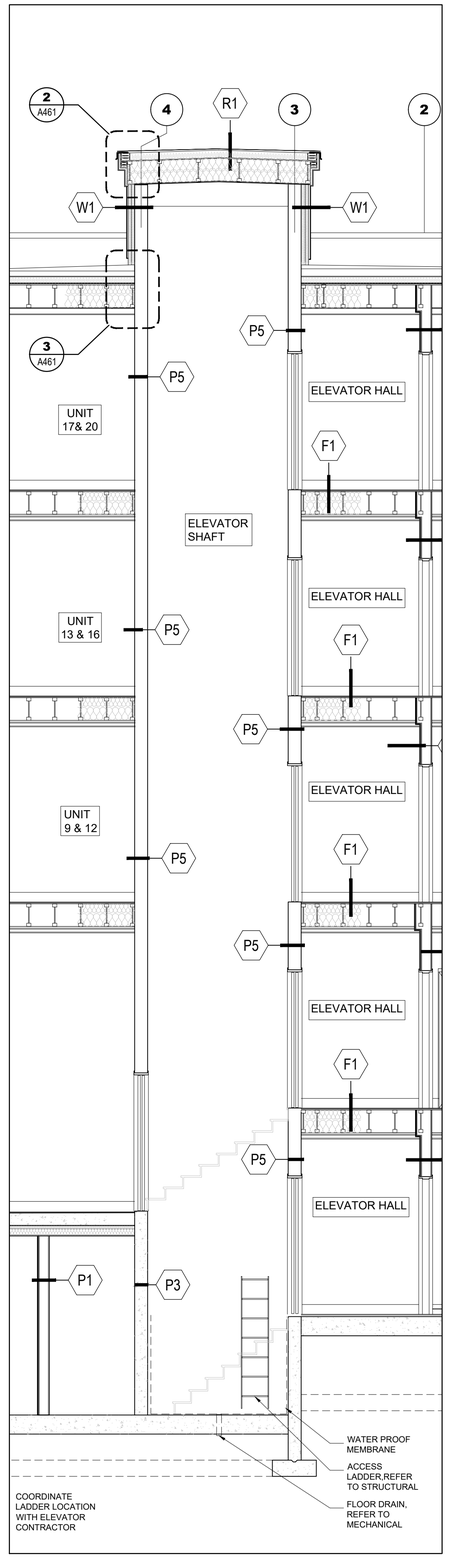
3 A-461 TYPICAL - SECTION DETAIL

SCALE = 1 1/2" = 1'-0"



4 A-461 DETAIL -ROOF TOP UNIT

SCALE = 1 1/2" = 1'-0"



1 A-461 WALL SECTION

SCALE = 1/4" = 1'-0"

CLIENT

PROJECT NORTH

SEAL

TRUE NORTH

ARCHITECTURAL

(L+D)
LALANDE + DOYLE ARCHITECTS INC.
www.lplusd.com
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Fax 613.233.1008
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Ottawa, Ontario K1Y 0Y2

MECHANICAL + ELECTRICAL

STRUCTURAL

CIVIL

DATE	DESCRIPTION	ISSUE	REV.
17/07/2025	REISSUED FOR PERMIT		4
09/07/2025	ISSUED FOR CONSTRUCTION		3
10/04/2025	REISSUED FOR PERMIT		3
12/03/2025	ISSUED FOR PERMIT		2
27/02/2025	ISSUED FOR REVIEW		1

PROJECT NAME

PULSE SOCIETIES LTD

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve Street, Orleans (Ottawa), ON

DRAWING TITLE

TYPICAL - WALL SECTION & DETAILS

DATE 22.05.2024

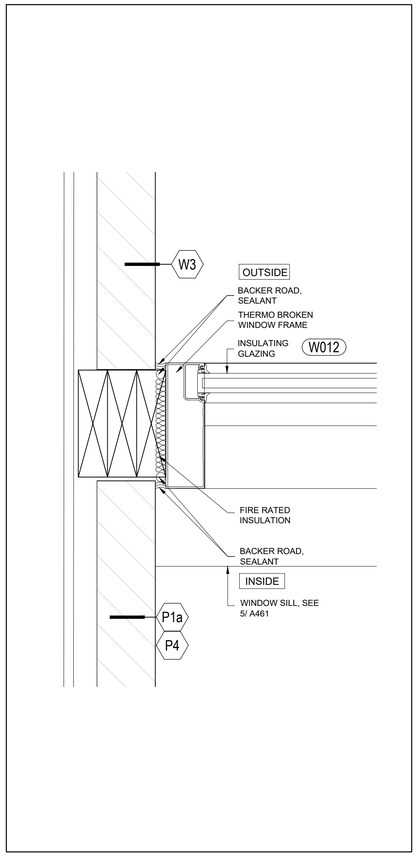
PROJECT NO. 24-002C

SCALE AS NOTED

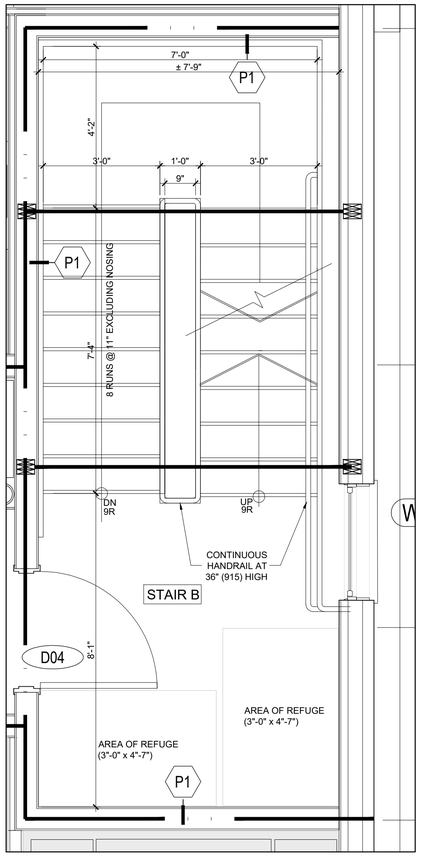
DRAWN BY BR

DRAWING NO. A-461

REVIEWED BY LCL



5 A-500 TYPICAL - FIRE RATING PLAN DETAIL
SCALE = 3" = 1'-0"



4 A-500 TYPICAL - STAIR PLAN DETAIL
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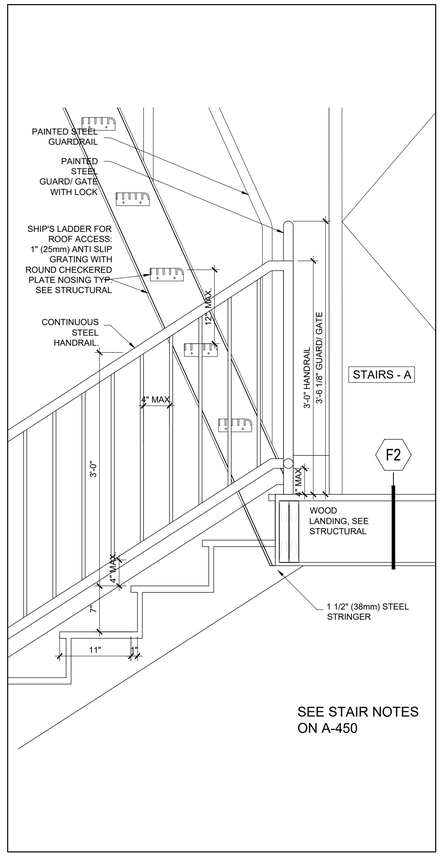
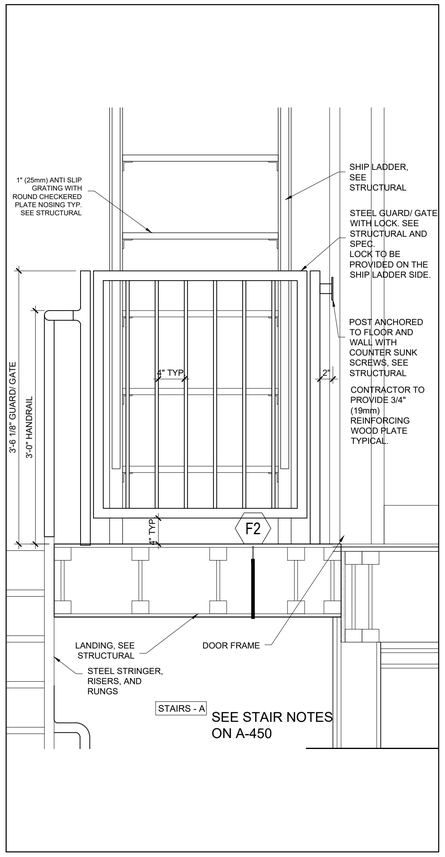
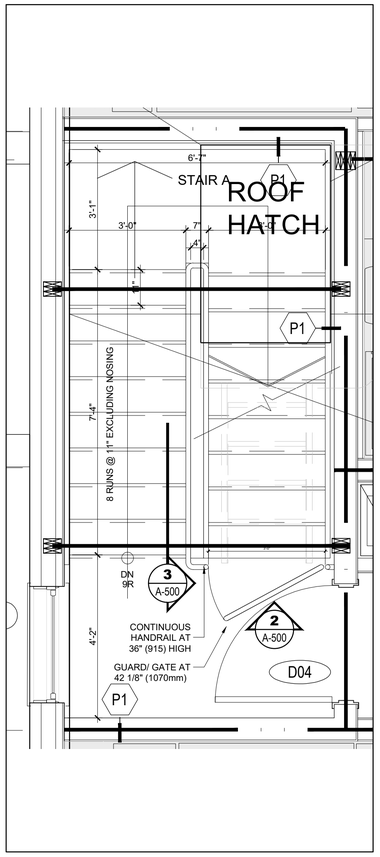


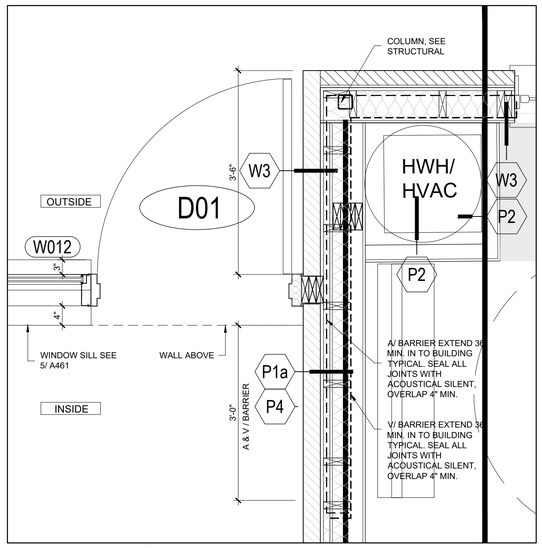
3 A-500 DETAIL @ SHIP'S LADDER
SCALE = 1" = 1'-0"



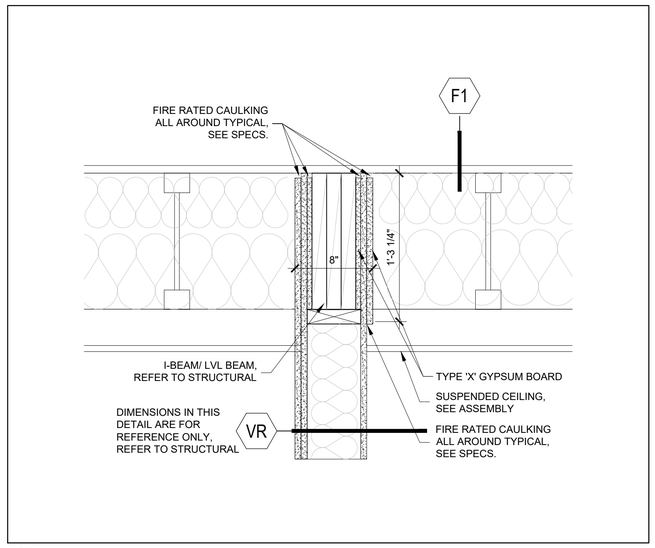
2 A-500 DETAIL @ STAIR LANDING
SCALE = 1" = 1'-0"



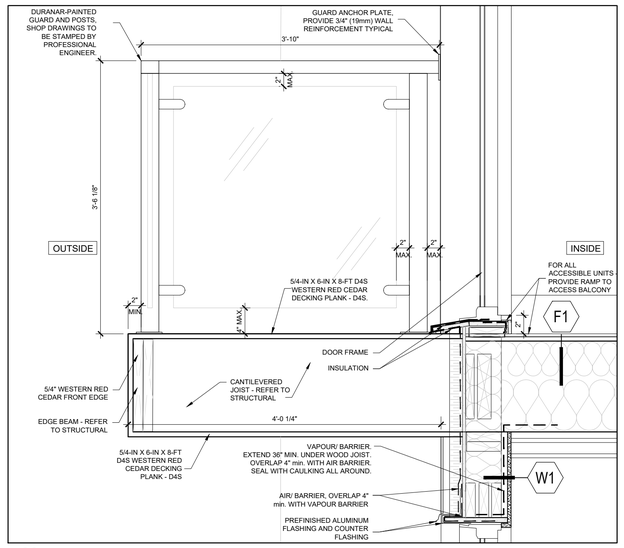
1 A-500 TYPICAL - STAIR PLAN DETAIL
SCALE = 1/2" = 1'-0"



8 A-500 TYPICAL - PLAN DETAIL
SCALE = 3/4" = 1'-0"



7 A-500 TYPICAL - FIRE RATING BEAM SECTION DETAIL
SCALE = 1 1/2" = 1'-0"



6 A-500 TYPICAL - BALCONY SECTION DETAIL
SCALE = 1" = 1'-0"

CLIENT

PROJECT NORTH

SEAL

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ARCHITECTURAL

(L+D)
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MECHANICAL + ELECTRICAL

STRUCTURAL

CIVIL

DATE	DESCRIPTION	ISSUE	REV.
2025/07/17	REISSUED FOR PERMIT		5
2025/07/09	ISSUED FOR CONSTRUCTION		4
2025/05/27	REISSUED FOR PERMIT		4
2025/04/10	REISSUED FOR PERMIT		3
2025/03/11	ISSUED FOR PERMIT		2
2025/02/17	ISSUED FOR REVIEW		1

PROJECT NAME

PULSE SOCIETIES LTD

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve Street, Orleans (Ottawa), ON

DRAWING TITLE

TYPICAL - STAIRS PLAN & SECTIONS DETAILS

DATE
22.05.2024

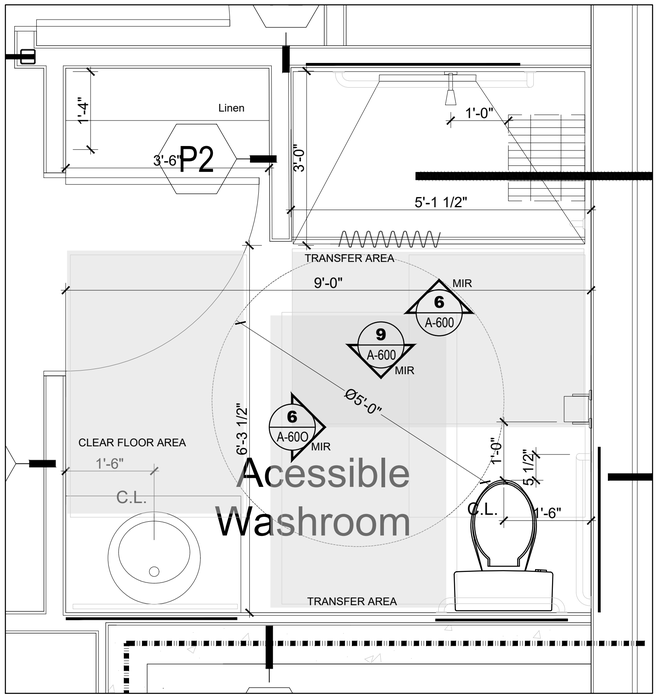
PROJECT NO.
24-002C

SCALE
AS NOTED

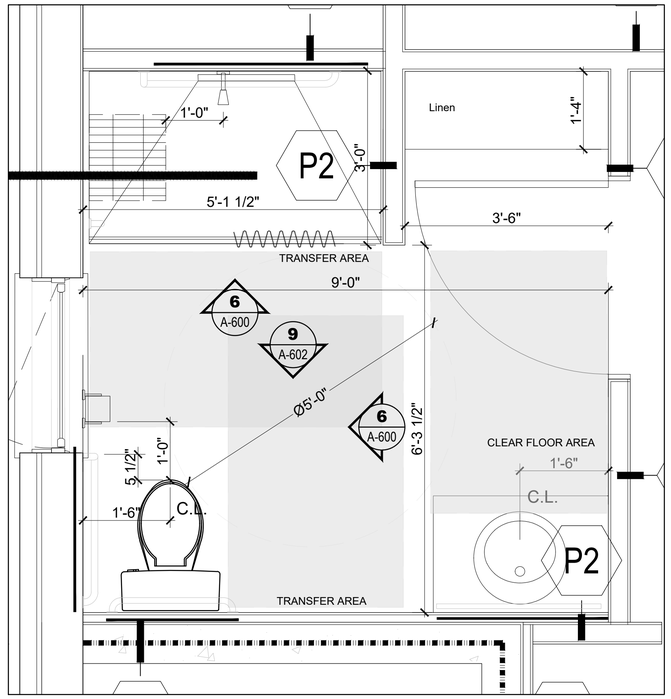
DRAWN BY
BR

DRAWING NO.
A-500

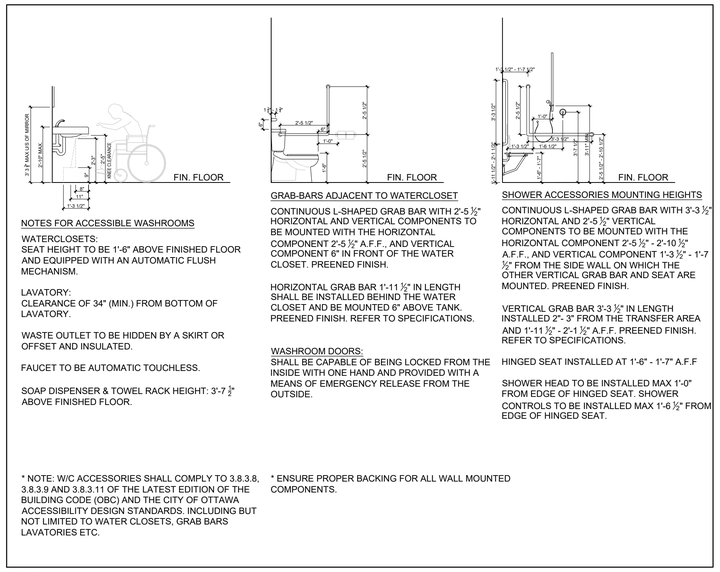
REVIEWED BY
LCL



4 A-600 UNITS 5 & 10 ACCESSIBLE WASHROOM ENLARGED PLAN
SCALE = 3/4" = 1'-0"



3 A-600 UNITS 1 & 6 ACCESSIBLE WASHROOM ENLARGED PLAN
SCALE = 3/4" = 1'-0"



NOTES FOR ACCESSIBLE WASHROOMS

WATERCLOSETS:
SEAT HEIGHT TO BE 1'-6" ABOVE FINISHED FLOOR AND EQUIPPED WITH AN AUTOMATIC FLUSH MECHANISM.

LAVATORY:
CLEARANCE OF 34" (MIN.) FROM BOTTOM OF LAVATORY.

WASTE OUTLET TO BE HIDDEN BY A SKIRT OR OFFSET AND INSULATED.

FAUCET TO BE AUTOMATIC TOUCHLESS.

SOAP DISPENSER & TOWEL RACK HEIGHT: 3'-7 ½" ABOVE FINISHED FLOOR.

GRAB-BARS ADJACENT TO WATERCLOSET

CONTINUOUS L-SHAPED GRAB BAR WITH 2'-5 ½" HORIZONTAL AND VERTICAL COMPONENTS TO BE MOUNTED WITH THE HORIZONTAL COMPONENT 2'-5 ½" A.F.F., AND VERTICAL COMPONENT 6" IN FRONT OF THE WATER CLOSET. PREENED FINISH.

HORIZONTAL GRAB BAR 1'-11 ½" IN LENGTH SHALL BE INSTALLED BEHIND THE WATER CLOSET AND BE MOUNTED 6" ABOVE TANK. PREENED FINISH. REFER TO SPECIFICATIONS.

WASHROOM DOORS:
SHALL BE CAPABLE OF BEING LOCKED FROM THE INSIDE WITH ONE HAND AND PROVIDED WITH A MEANS OF EMERGENCY RELEASE FROM THE OUTSIDE.

SHOWER ACCESSORIES MOUNTING HEIGHTS

CONTINUOUS L-SHAPED GRAB BAR WITH 3'-3 ½" HORIZONTAL AND 2'-5 ½" VERTICAL COMPONENTS TO BE MOUNTED WITH THE HORIZONTAL COMPONENT 2'-5 ½" - 2'-10 ½" A.F.F., AND VERTICAL COMPONENT 1'-3 ½" - 1'-7 ½" FROM THE SIDE WALL ON WHICH THE OTHER VERTICAL GRAB BAR AND SEAT ARE MOUNTED. PREENED FINISH.

VERTICAL GRAB BAR 3'-3 ½" IN LENGTH INSTALLED 2"- 3" FROM THE TRANSFER AREA AND 1'-11 ½" - 2'-1 ½" A.F.F. PREENED FINISH. REFER TO SPECIFICATIONS.

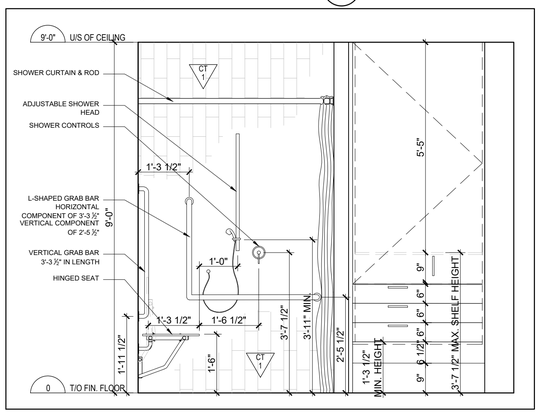
HINGED SEAT INSTALLED AT 1'-6" - 1'-7" A.F.F

SHOWER HEAD TO BE INSTALLED MAX 1'-0" FROM EDGE OF HINGED SEAT. SHOWER CONTROLS TO BE INSTALLED MAX 1'-6 ½" FROM EDGE OF HINGED SEAT.

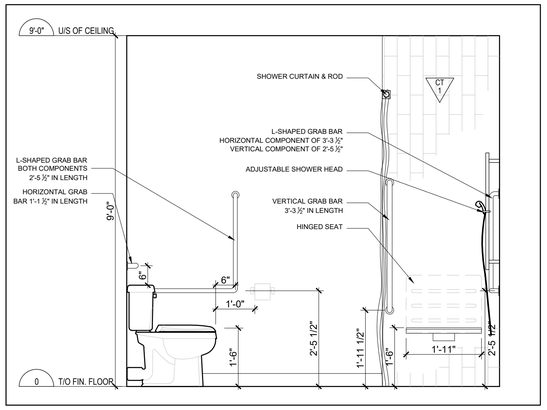
* NOTE: W/C ACCESSORIES SHALL COMPLY TO 3.8.3.8, 3.8.3.9 AND 3.8.3.11 OF THE LATEST EDITION OF THE BUILDING CODE (OBC) AND THE CITY OF OTTAWA ACCESSIBILITY DESIGN STANDARDS. INCLUDING BUT NOT LIMITED TO WATER CLOSETS, GRAB BARS LAVATORIES ETC.

* ENSURE PROPER BACKING FOR ALL WALL MOUNTED COMPONENTS.

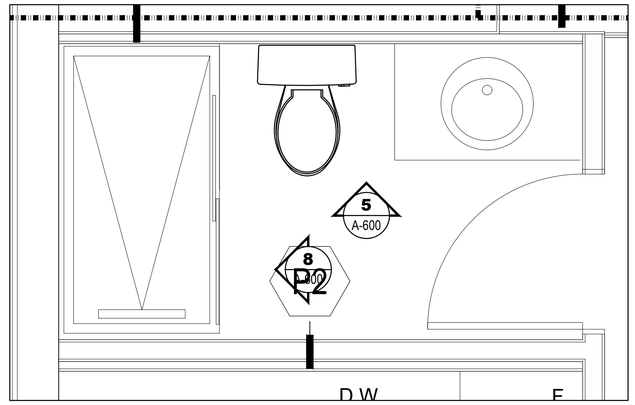
1 A-600 TYPICAL WASHROOM MOUNTING HEIGHTS
SCALE = 1/4" = 1'-0"



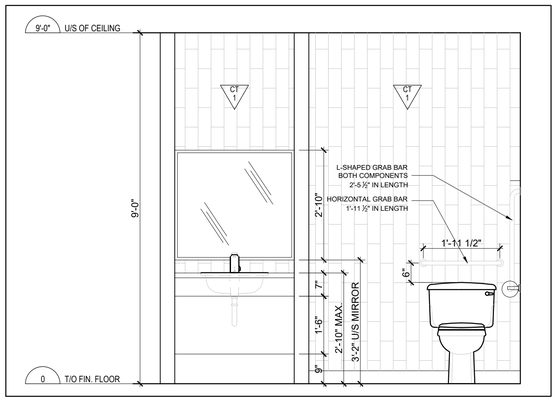
6 A-601 ACCESSIBLE WASHROOM ELEVATION
SCALE = 1/2" = 1'-0"



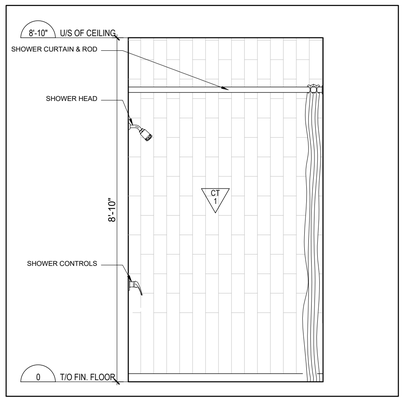
5 A-601 ACCESSIBLE WASHROOM ELEVATION
SCALE = 1/2" = 1'-0"



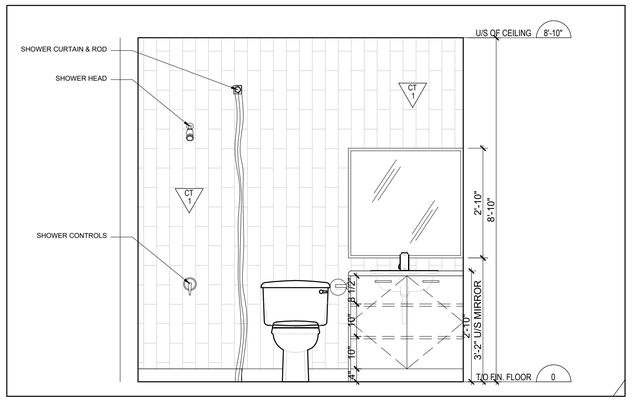
4 A-600 TYPICAL WASHROOM - ENLARGED PLAN
SCALE = 3/4" = 1'-0"



9 A-600 ACCESSIBLE WASHROOM ELEVATION
SCALE = 1/2" = 1'-0"



8 A-601 TYPICAL WASHROOM - ELEVATION
SCALE = 1/2" = 1'-0"



7 A-600 TYPICAL WASHROOM - ELEVATION
SCALE = 1/2" = 1'-0"

CLIENT

PROJECT NORTH

TRUE NORTH

SEAL

ARCHITECTURAL

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MECHANICAL + ELECTRICAL

STRUCTURAL

CIVIL

DATE	DESCRIPTION	ISSUE.	REV.
2025/07172	REISSUED FOR PERMIT		2
2025/07/09	ISSUED FOR CONSTRUCTION		2
2025/03/12	ISSUED FOR PERMIT		2
2025/02/27	ISSUED FOR REVIEW		1

PROJECT NAME

PULSE SOCIETIES LTD

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve St, Orleans (Ottawa), ON

DRAWING TITLE

WASHROOM ENLARGED PLANS

DATE 22.05.2024

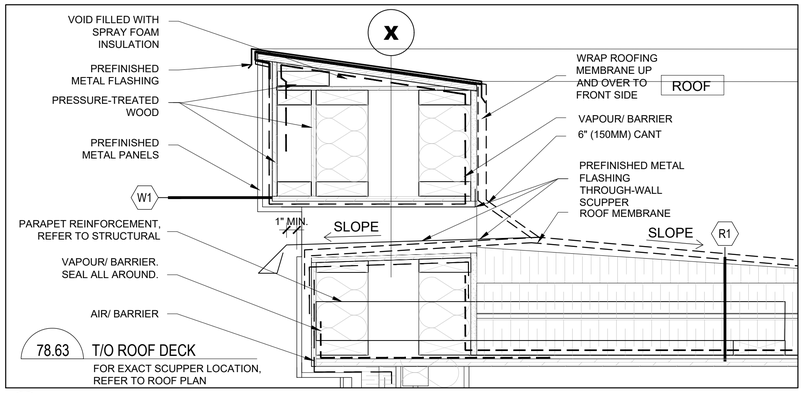
PROJECT NO. 24-002C

SCALE AS NOTED

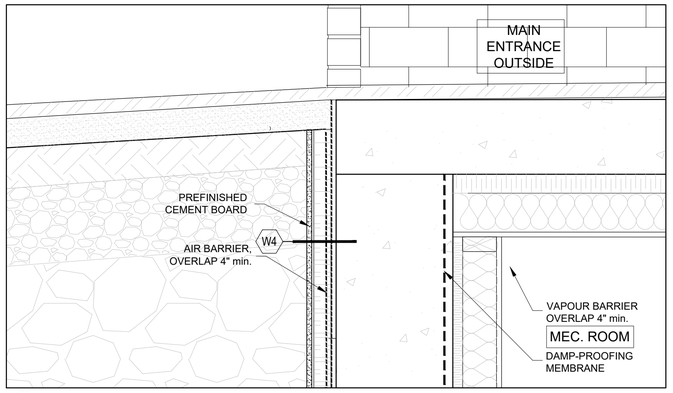
DRAWN BY MD

DRAWING NO. A-600

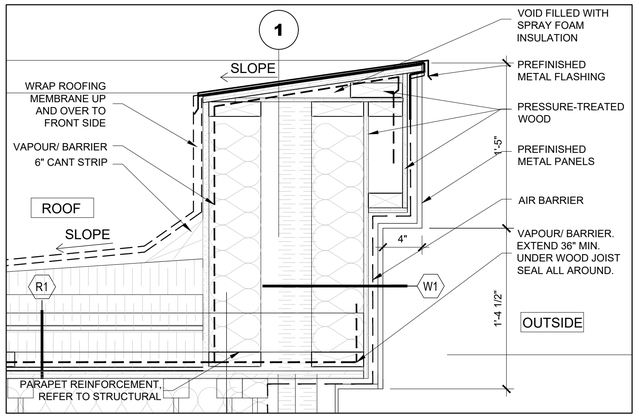
REVIEWED BY LCL



10 A-610 TYPICAL - SCUPPER DETAIL
SCALE = 1 1/2" = 1'-0"

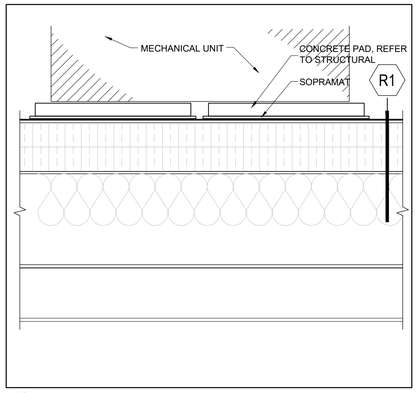


6 A-610 TYPICAL - DETAIL
SCALE = 1 1/2" = 1'-0"

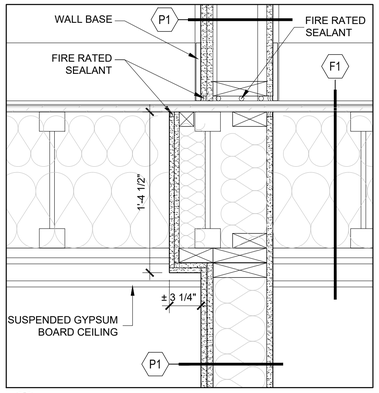


1 A-610 TYPICAL - DETAIL
SCALE = 1 1/2" = 1'-0"

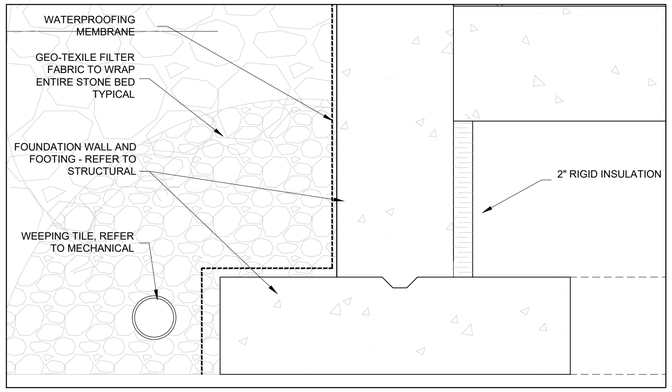
WALL CONSTRUCTION VARIES DEPENDING ON LOCATION



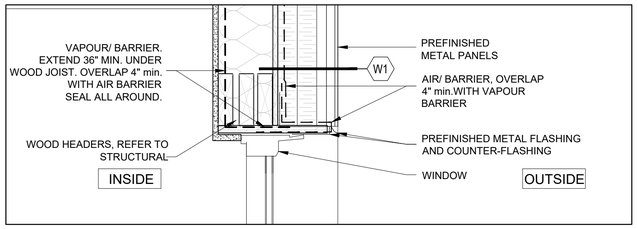
14 A-610 DETAIL -ROOF TOP UNIT
SCALE = 1" = 1'-0"



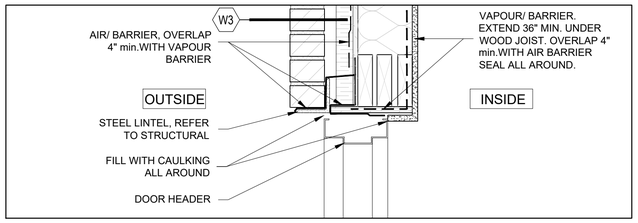
11 A-610 TYPICAL - FIRE RATING WALL DETAIL
SCALE = 1 1/2" = 1'-0"



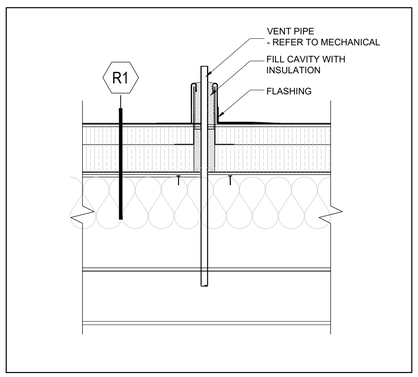
7 A-610 TYPICAL - DETAIL
SCALE = 1 1/2" = 1'-0"



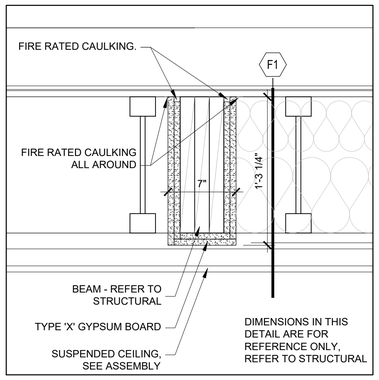
2 A-610 TYPICAL - DETAIL
SCALE = 1 1/2" = 1'-0"



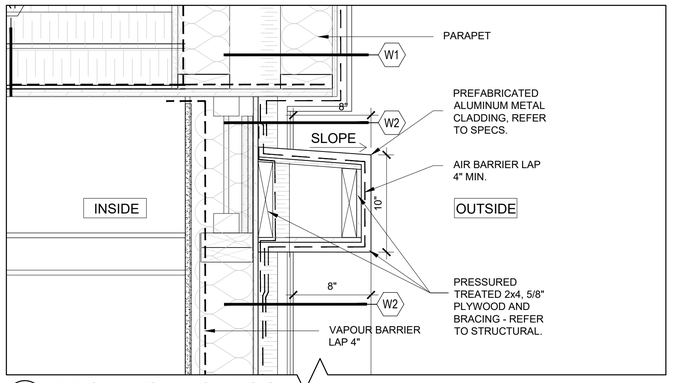
3 A-610 TYPICAL - DETAIL
SCALE = 1 1/2" = 1'-0"



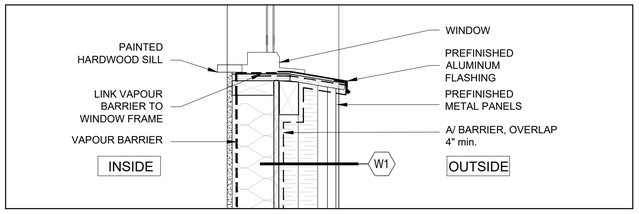
15 A-610 ROOF DETAIL - PLUMBING VENT
SCALE = 1" = 1'-0"



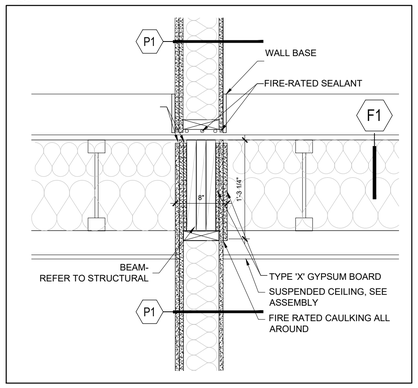
12 A-610 TYPICAL - FIRE RATED BEAM - DETAIL
SCALE = 1 1/2" = 1'-0"



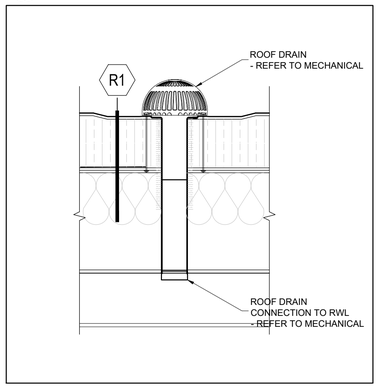
8 A-610 TYPICAL - TOP PROTRUSION DETAIL
SCALE = 1 1/2" = 1'-0"



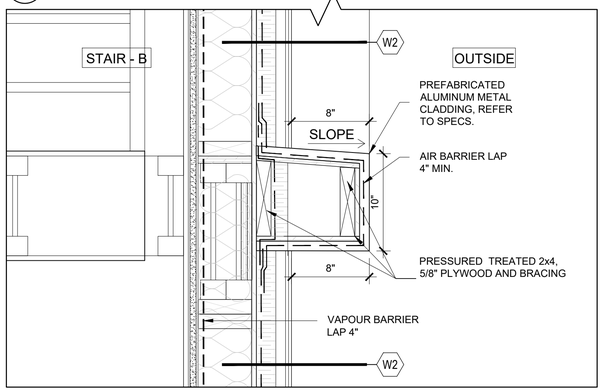
4 A-610 TYPICAL - DETAIL
SCALE = 1 1/2" = 1'-0"



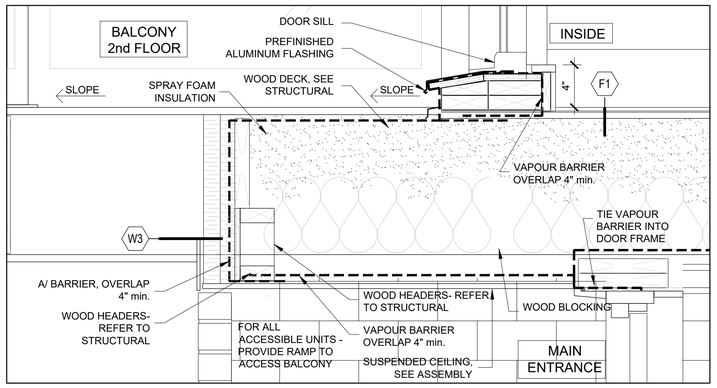
16 A-610 TYPICAL - FIRE RATEDWALL & BEAM DETAIL
SCALE = 1" = 1'-0"



13 A-610 DETAIL - ROOF DRAIN
SCALE = 1" = 1'-0"



9 A-610 TYPICAL - LOWER PROTRUSION DETAIL
SCALE = 1 1/2" = 1'-0"



5 A-610 TYPICAL - DETAIL
SCALE = 1 1/2" = 1'-0"

CLIENT

PROJECT NORTH

SEAL

TRUE NORTH

ARCHITECTURAL

LALANDE + DOYLE ARCHITECTS INC.
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MECHANICAL + ELECTRICAL

STRUCTURAL

CIVIL

DATE	DESCRIPTION	ISSUE	REV.
2025/07/17	REISSUED FOR PERMIT		3
2025/07/09	ISSUED FOR CONSTRUCTION		2
2025/03/12	ISSUED FOR PERMIT		2
2025/02/27	ISSUED FOR REVIEW		1

PROJECT NAME

PULSE SOCIETIES LTD

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve Street, Orleans (Ottawa), ON

DRAWING TITLE

TYPICAL - SECTION DETAILS

DATE 22.05.2024

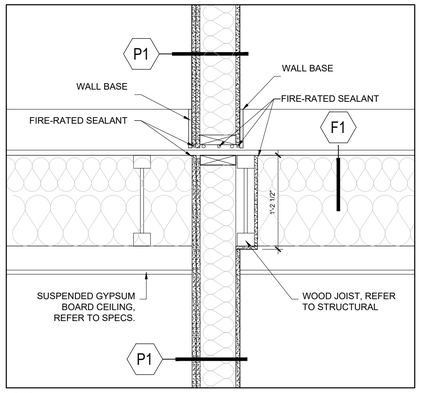
PROJECT NO. 24-002C

SCALE AS NOTED

DRAWN BY BR

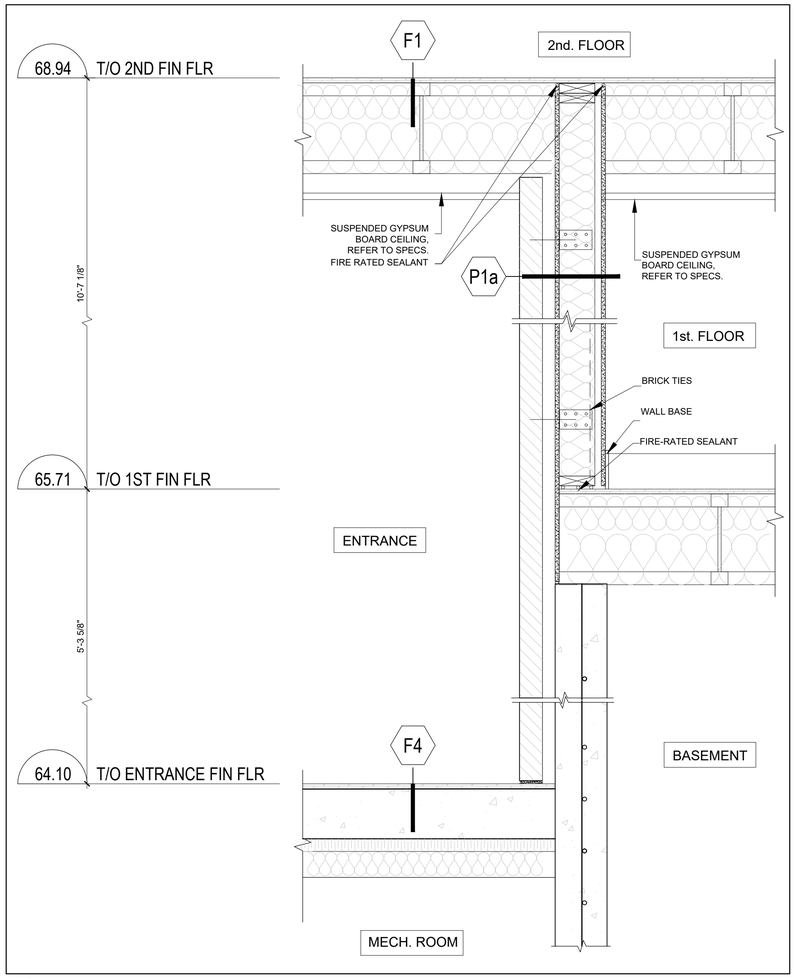
DRAWING NO. A-610

REVIEWED BY LCL



2 A-611 TYPICAL - FIRE RATING WALL DETAIL

SCALE = 1" = 1'-0"



1 A-611 TYPICAL - SECTION DETAIL

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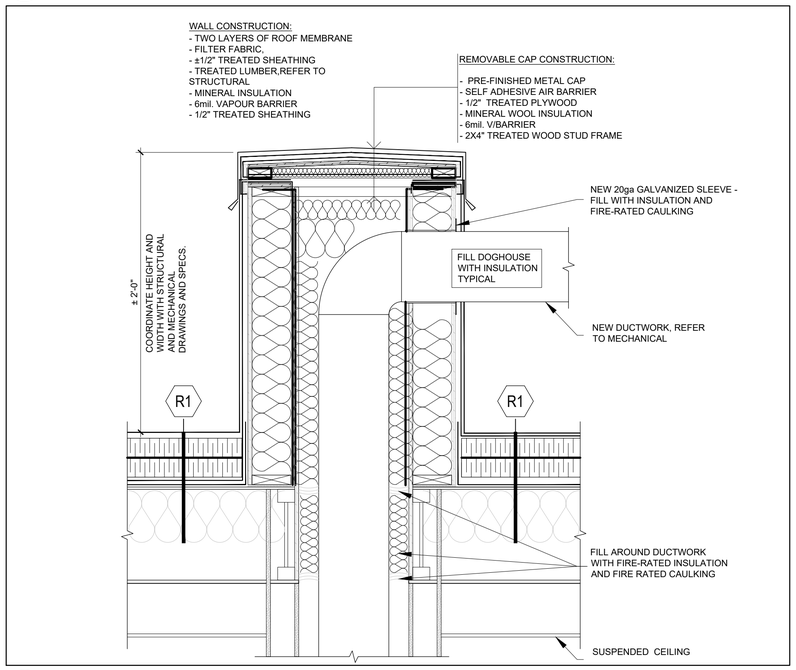

3 A-611 TYPICAL - DOG HOUSE DETAIL

SCALE = 1" = 1'-0"

CLIENT

PROJECT NORTH

TRUE NORTH

SEAL

ARCHITECTURAL

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Ottawa, Ontario K1Y 0Y2

MECHANICAL + ELECTRICAL

STRUCTURAL

CIVIL

DATE	DESCRIPTION	ISSUE	REV.
17/07/2025	REISSUED FOR PERMIT	3	
09/07/2025	ISSUED FOR CONSTRUCTION'	2	
12/03/2025	ISSUED FOR PERMIT	2	
28/08/2025	ISSUED FOR REVIEW	1	

PROJECT NAME

PULSE SOCIETIES LTD

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve Street, Orleans (Ottawa), ON

DRAWING TITLE

TYPICAL - SECTION DETAILS

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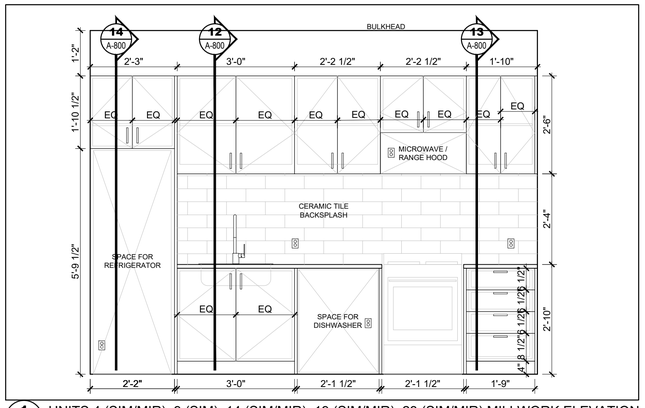
SCALE AS NOTED

DRAWN BY BR

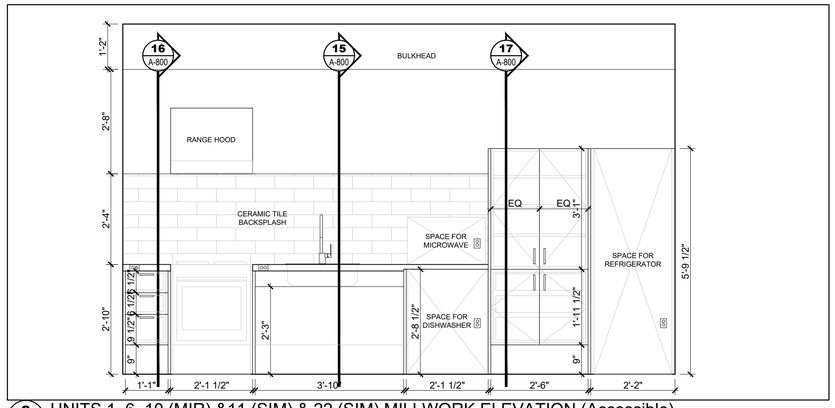
REVIEWED BY LCL

PROJECT NO. 24-002C

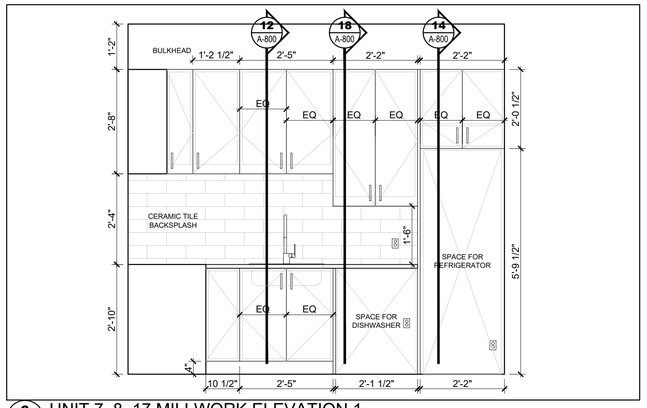
DRAWING NO. A-611



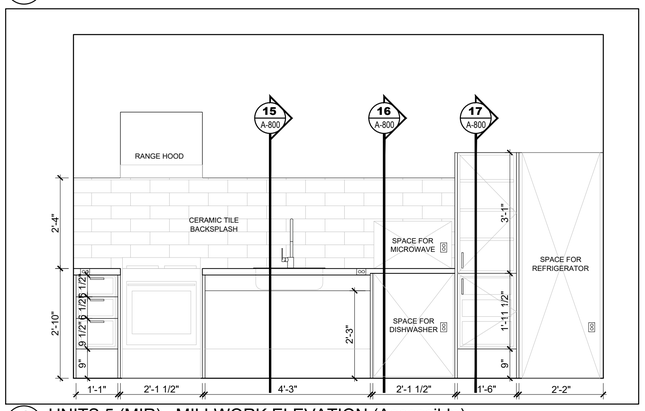
1 A-800 UNITS 4 (SIM/MIR), 9 (SIM), 14 (SIM/MIR), 19 (SIM/MIR), 23 (SIM/MIR) MILLWORK ELEVATION
SCALE = 1/2" = 1'-0"



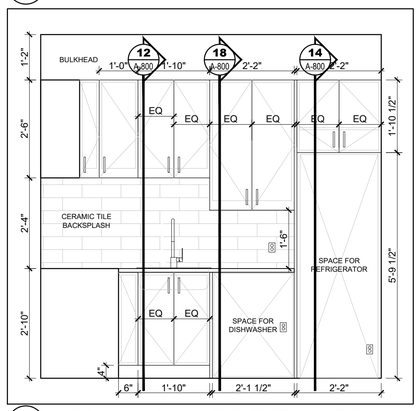
2 A-800 UNITS 1, 6, 10 (MIR) &11 (SIM) & 22 (SIM) MILLWORK ELEVATION (Accessible)
SCALE = 1/2" = 1'-0"



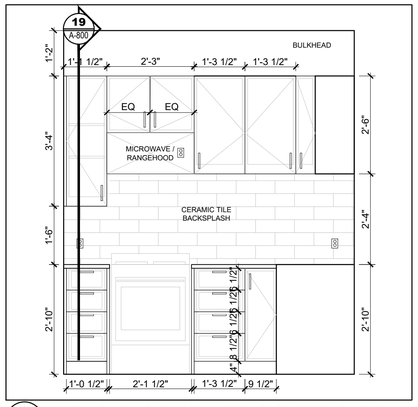
3 A-800 UNIT 7, 8, 17 MILLWORK ELEVATION 1
SCALE = 1/2" = 1'-0"



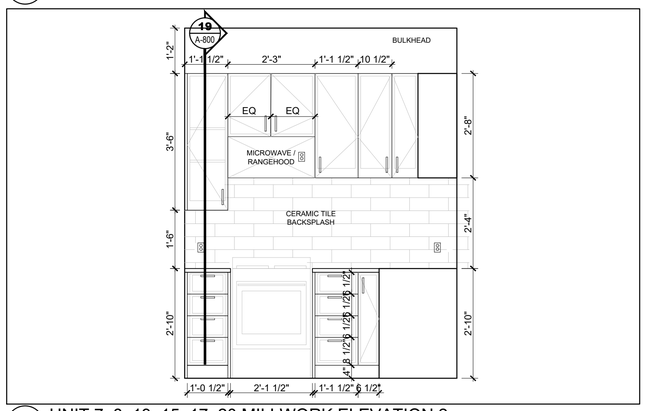
4 A-800 UNITS 5 (MIR), MILLWORK ELEVATION (Accessible)
SCALE = 1/2" = 1'-0"



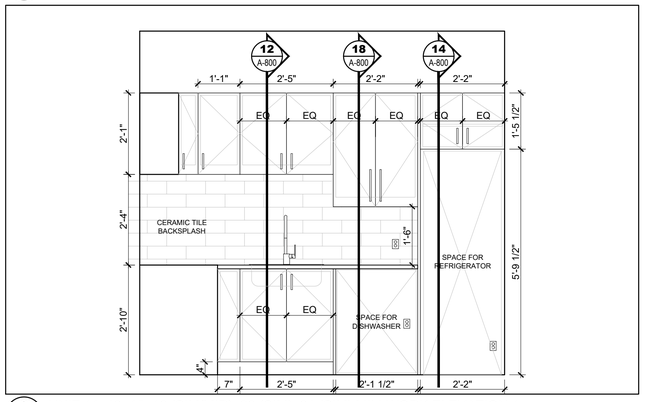
5 A-800 UNIT 2, 3, 12, 18 MILLWORK ELEVATION 1 - TYP.
SCALE = 1/2" = 1'-0"



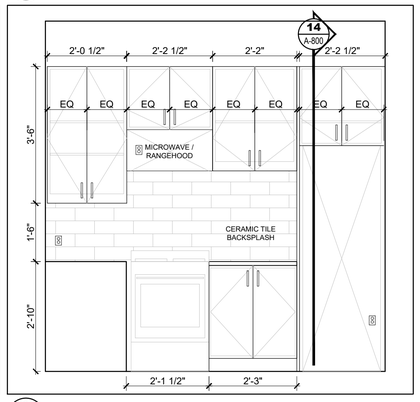
6 A-800 UNIT 2, 3, 12, 18, 24 MILLWORK ELEVATION 2 - TYP.
SCALE = 1/2" = 1'-0"



7 A-800 UNIT 7, 8, 13, 15, 17, 20 MILLWORK ELEVATION 2
SCALE = 1/2" = 1'-0"

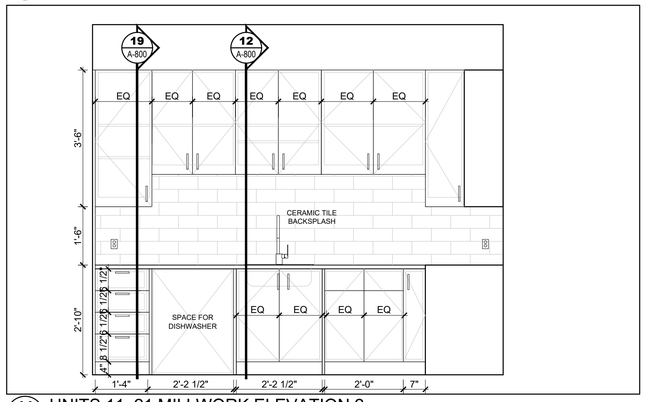


8 A-800 UNIT 11, 13, 15, 16 (SIM/MIR), 20 (SIM), 24 (SIM) MILLWORK ELEVATION 1
SCALE = 1/2" = 1'-0"

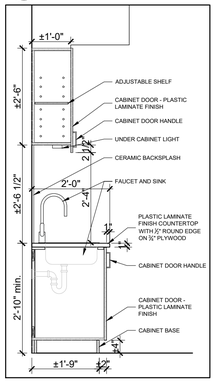


9 A-800 UNITS 16, & 21 MILLWORK ELEVATION 1
SCALE = 1/2" = 1'-0"

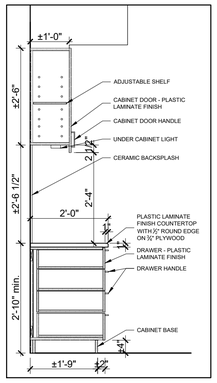
10 A-800 RESERVED
SCALE = 1/2" = 1'-0"



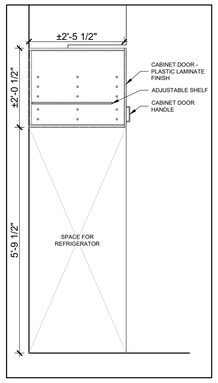
11 A-800 UNITS 11, 21 MILLWORK ELEVATION 2
SCALE = 1/2" = 1'-0"



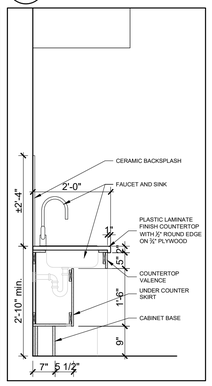
12 A-800 MILLWORK SECTION - TYP.
SCALE = 1/2" = 1'-0"



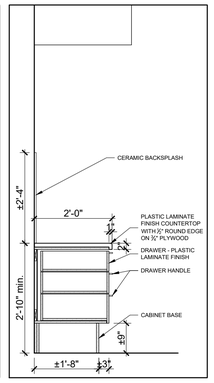
13 A-800 MILLWORK SECTION - TYP.
SCALE = 1/2" = 1'-0"



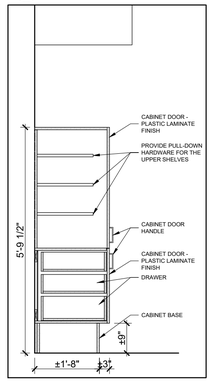
14 A-800 MILLWORK SECTION - TYP.
SCALE = 1/2" = 1'-0"



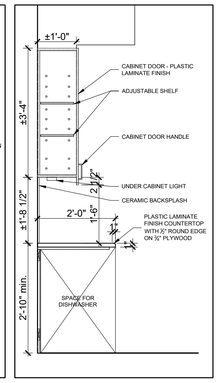
15 A-800 MILLWORK SECTION - TYP.
SCALE = 1/2" = 1'-0"



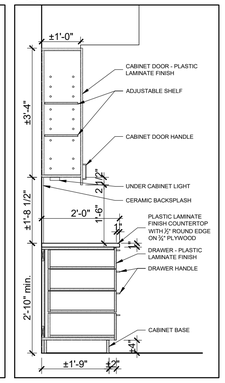
16 A-800 MILLWORK SECTION - TYP.
SCALE = 1/2" = 1'-0"



17 A-800 MILLWORK SECTION - TYP.
SCALE = 1/2" = 1'-0"



18 A-800 MILLWORK SECTION - TYP.
SCALE = 1/2" = 1'-0"



19 A-800 MILLWORK SECTION - TYP.
SCALE = 1/2" = 1'-0"

20 A-800 RESERVED
SCALE = 1/2" = 1'-0"

21 A-800 RESERVED
SCALE = 1/2" = 1'-0"

CLIENT

PROJECT NORTH

TRUE NORTH

SEAL

ARCHITECTURAL

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159 Holland Ave
Ottawa, Ontario K1Y 0Y2

MECHANICAL + ELECTRICAL

STRUCTURAL

CIVIL

DATE	DESCRIPTION	ISSUE	REV.
17/07/2025	REISSUED FOR PERMIT		4
2025/07/09	ISSUED FOR CONSTRUCTION		4
2025/04/28	ISSUED FOR REVIEW		4
24/09/2024	REISSUED FOR CONSTRUCTION		1
22/08/2024	ISSUED FOR PERMIT		1
10/08/2024	ISSUED FOR REVIEW		1

PROJECT NAME

PULSE SOCIETIES LTD

ORLEANS DEVELOPMENT - MSN

1108 Maisonneuve St., Orleans, ON

DRAWING TITLE

MILLWORK ELEVATIONS & SECTIONS

DATE 22.05.2024

PROJECT NO. 24-002A

SCALE AS NOTED

DRAWN BY MD

REVIEWED BY LCL

DRAWING NO. A-800C