

April 8<sup>th</sup>, 2016

City of Ottawa  
Planning and Growth Management Branch  
110 Laurier Ave. W., 4<sup>th</sup> Floor  
Ottawa, ON K1P 1J1

**Attention: Mr. Wally Dubyk. C.E.T.**  
**Project Manager, Infrastructure Approvals**

Dear Sir:

**Reference: 261-277 King Edward Avenue & 260 Murray Street**  
**Transportation Overview – Site Plan Control Application**  
**Our File No. 112078**

---

## **1.0 INTRODUCTION**

The following Transportation Overview has been prepared in support of a Site Plan Control application for a residential mixed-use development located at 261-277 King Edward Avenue and 260 Murray Street. This Transportation Overview will identify any transportation impacts associated with the proposed development.

This Transportation Overview provides a description of the proposed development, summarizes the existing conditions in the vicinity of the subject site, and calculates the projected number of trips to be generated during the weekday AM and PM peak hours. The on-site design, vehicular circulation and provisions for non-auto modes of transportation (including possible TDM strategies) have also been analyzed as part of this Transportation Overview.

## **2.0 PROPOSED DEVELOPMENT**

The subject site is located on the east side of King Edward Drive between Murray Street and Clarence Street. The site has an area of approximately 1,262m<sup>2</sup>, and is currently vacant. The subject site is zoned Traditional Mainstreet (TM) under the City of Ottawa *Zoning By-law* (ZBL), which permits the proposed uses.

The proposed development consists of a six storey mixed use building containing a total of 31 rental apartment units and 4,520 square feet of ground floor retail. The proposed development is to be serviced through two underground parking garages with accesses on Clarence Street and Murray Street. The Clarence Street parking garage will consist of 10 parking spaces and will be used for commercial parking as well as for visitor parking for the residents. The Murray Street parking garage will consist of 20 parking spaces and will be used for residents of the building.

A site plan for the proposed development is included with this Transportation Overview as **Appendix A**.

### 3.0 EXISTING CONDITIONS

Murray Street is a local roadway along the north edge of the subject site with a two lane undivided urban cross section. Murray Street runs on an east-west alignment and terminates approximately 10m west of the proposed development and just east of King Edward Avenue. Sidewalks are provided on both sides of Murray Street and on-street parking is permitted along both sides of the roadway.

Clarence Street is a local roadway along the south edge of the subject site with a two lane undivided urban cross section. Clarence Street runs on an east-west alignment between Sussex Drive and Beausoleil Drive. Sidewalks are provided on both sides of Clarence Street and on-street parking is permitted on the south side of the roadway.

Nelson Street is a local roadway east of the subject site with a two lane undivided urban cross section. Nelson Street runs on a north-south alignment and terminates in a cul-de-sac just north of Murray Street. Sidewalks are provided on both sides of Nelson Street and on-street parking is permitted on the east side of the roadway.

King Edward Avenue is an arterial roadway west of the subject site with a six lane divided urban cross section. Sidewalks are provided on both sides of King Edward Avenue and parking is permitted during off peak hours on both sides of the roadway.

The Nelson Street/Murray Street and Nelson Street/Clarence Street intersections operate under two way stop control, maintaining free flow conditions along Nelson Street. The King Edward Avenue/Clarence Street intersection is restricted to right-in right-out movements and operates under side street stop control, maintaining free flow conditions along King Edward Avenue.

### 4.0 TRIP GENERATION

Trips generated by the proposed development have been estimated using relevant peak hour trip generation rates identified in the *Institute of Transportation Engineers (ITE) Trip Generation Manual 9<sup>th</sup> Edition*.

The estimated peak hour vehicle trips generated by the proposed development during the weekday AM and PM peak hours are summarized in **Table 1** below.

**Table 1: Trip Generation**

Land Use	ITE Code	Units or GFA (s.f.)	AM Peak (vph <sup>1</sup> )			PM Peak (vph)		
			IN	OUT	TOTAL	IN	OUT	TOTAL
Apartment	220	31	3	13	16	13	7	20
Specialty Retail <sup>2</sup>	826	4,520	2	2	4	6	7	13
<b>TOTAL</b>			<b>5</b>	<b>15</b>	<b>20</b>	<b>19</b>	<b>14</b>	<b>33</b>

1. vph = vehicles per hour
2. No data for the AM peak hour of adjacent street traffic. Rate approximated using the AM to PM proportion of the Shopping Center land use (Code 820)

## 5.0 TRANSPORTATION IMPACTS

The theoretical capacity of Murray Street, Nelson Street and Clarence Street (two way local roadways) is estimated at 400 vehicles per hour per lane. The theoretical capacity of King Edward Avenue (two way arterial roadway within the CBD with frequent signals and at grade intersections) is estimated at 800 vehicles per hour per lane, yielding a northbound capacity of 2,400 vehicles per hour during peak hours. The projected trips generated by the proposed development are marginal compared to the overall capacity of the study area roadways.

A site visit was conducted on March 9<sup>th</sup>, 2016 during the AM peak to review the traffic operations at the surrounding intersections. It was observed that the Nelson Street/Murray Street, Nelson Street/Clarence Street and King Edward Avenue/Clarence Street intersections were operating at an acceptable level of service with minimal delays.

The marginal increase in traffic volumes attributable to the additional trips generated by the proposed development is not anticipated to have any significant impact on the operating conditions at the surrounding intersections.

## 6.0 PROVISIONS FOR NON-AUTO MODES

OC Transpo bus stop #2320 and #2321 are located within a walking distance of 400m of the subject site. These bus stops provide service to OC Transpo route 1, which travels between the Greenboro transit station and the Ottawa-Rockcliffe area.

Sidewalks will be depressed and continuous across the vehicular accesses. A pedestrian walkway will be provided along the east edge of the building between Murray Street and Clarence Street.

Bicycle parking will be provided in accordance with the requirements of the City of Ottawa *Zoning By-law* (ZBL). The minimum bicycle parking requirements are summarized in **Section 7.2** below.

## 7.0 ON-SITE DESIGN

### 7.1 Proposed Access

The proposed development is to be serviced through two underground parking garages with accesses on Clarence Street and Murray Street.

The Murray Street parking garage will consist of 20 parking spaces and will be used for residents of the building. The Murray Street access is located 3m from the eastern property line and 1m from the western property line. The City's *Private Approach By-law* identifies the minimum spacing between a private approach and any property line is 3m and a waiver of the private approach by-law will be required. The nearest access to the east is approximately 10m from the proposed access, and the nearest driveway to the west is approximately 2m from the proposed access. The Murray Street access has a curb-to-curb width of approximately 6m.

The Clarence Street parking garage will consist of 10 parking spaces and will be used for commercial parking as well as for visitor parking for the residents. The Clarence Street access is

located approximately 3m from the eastern property line and has a curb-to-curb width of approximately 3.6m.

The City's ZBL identifies a minimum driveway width of 3m for parking lots with less than 20 spaces and 6m for parking lots with more than 20 spaces within the TM zone. The two underground parking garage driveways conform to the minimum widths identified in the City's ZBL.

## 7.2 On-Site Parking and Loading

The subject site is located in Area B of Schedule one to the City of Ottawa ZBL. Minimum parking space rates for the proposed development are identified in the following table.

**Table 2: Parking Requirement**

Land Use	Zoning By-law Rate	Parking Requirement	Proposed Parking
<i>Vehicle Parking</i>			
Residential Parking (Occupant)	0.5 spaces per dwelling unit	16 spaces	20 spaces
Residential Parking (Visitor)	0.2 spaces per dwelling unit over 12 units	4 spaces	4 spaces
Retail Parking	2.5 spaces per 100m <sup>2</sup> of GFA over first 150m <sup>2</sup> GFA	7 spaces	6 spaces
<b>TOTAL</b>		<b>27 spaces</b>	<b>30 spaces</b>
<i>Bicycle Parking</i>			
Residential Parking	0.5 spaces per dwelling unit	16 spaces	16 spaces
Retail Parking	1 per 250m <sup>2</sup> of GFA	2 spaces	2 spaces
<b>TOTAL</b>		<b>18 spaces</b>	<b>18 spaces</b>

Based on the foregoing table, the ZBL identifies a requirement to provide 27 vehicle parking spaces and 18 bicycle parking spaces. Twenty parking spaces are provided in the parking garage accessed from Murray Street, exceeding the requirement for residents of the building. Ten parking spaces are provided for visitor/retail parking in the parking garage accessed from Clarence Street. A minor variance to the City's ZBL will be required to reduce the number of retail parking spaces required by one vehicle parking space.

Six of the bicycle parking spaces will be provided at-grade in a secured area on the east side of the building, while the remaining twelve will be provided in the parking garage accessed off Clarence Street. The proposed bicycle parking for the proposed development meets the minimum requirements identified in the City's ZBL.

The City's ZBL identifies that no loading space is required for a retail development with less than 1000m<sup>2</sup> of GFA in the TM zone. Based on the foregoing, no loading space has been provided for this development.

## 8.0 TRANSPORTATION DEMAND MANAGEMENT

The City of Ottawa has developed a comprehensive Transportation Demand Management (TDM) strategy as part of its efforts to reduce automobile dependency. TDM measures can reduce transportation infrastructure requirements by encouraging people to change their travel mode, timing or destination.

The proposed development generally conforms to the City's TDM principles by providing easy access for non-auto travel modes.

## 9.0 CONCLUSIONS AND RECOMMENDATIONS

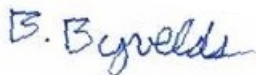
Based on the foregoing, the conclusions and recommendations of this Transportation Overview can be summarized as follows:

- The projected trips generated by the proposed development are marginal compared to the overall capacity of the study area roadways.
- The marginal increase in traffic volumes attributable to the trips generated by the proposed development is not anticipated to have any significant impact on the operating conditions at the surrounding intersections.
- The Murray Street access is located 3m from the eastern property line and 1m from the western property line. Minimum spacing for a private approach from any property line is 3m and a waiver of the private approach by-law will be required.
- The two underground parking garage driveways conform to the minimum widths identified in the City's ZBL.
- A minor variance to the City's ZBL will be required to reduce the number of retail parking spaces required by one vehicle parking space.
- The proposed bicycle parking for the proposed development meets the minimum requirements identified in the City's ZBL.
- The City's ZBL identifies that in the TM zone, no loading space is required for a retail development with less than 1000m<sup>2</sup> of GFA. Based on the foregoing, no loading space has been provided on-site.
- The proposed development generally conforms to the City's TDM principles by providing easy access for non-auto travel modes.

Yours truly,

**NOVATECH**

Prepared by:



Brad Byvelds, B. Eng.  
E.I.T.

**APPENDIX A**

**PROPOSED SITE PLAN**



**ZONING REVIEW & STATISTICS**

MUNICIPALITY: OTTAWA  
 MUNICIPAL ADDRESS: 275 KING EDWARD AVENUE  
 REGISTERED OWNER: CLAUDE LAUZON GROUP LTD.  
 LOT AREA = 1,262.3 sq.m. (3,587 sq.ft.) (0.31 acres)

ZONING ANALYSIS:  
 OTTAWA  
 ZONING BY-LAW: 2008-250  
 ZONE: TM / TM2  
 PROPOSED USE: 6-STORY MIXED-USE DEVELOPMENT

BUILDING AREAS	(SQ. M.)	(SQ. FT.)
<b>ABOVE GRADE</b>		
GROUND FLOOR	837	9,012
SECOND FLOOR	817	8,793
THIRD FLOOR	817	8,793
FOURTH FLOOR	817	8,793
FIFTH FLOOR	579	6,237
SIXTH FLOOR	568	6,102
<b>TOTAL (ABOVE GRADE)</b>	<b>4,435</b>	<b>47,737</b>
<b>PARKING (BELOW GRADE)</b>		
PARKING LEVEL 1	1,024	11,023
PARKING LEVEL 2	1,024	11,023
<b>TOTAL (BELOW GRADE)</b>	<b>2,048</b>	<b>22,046</b>
<b>TOTAL GROSS FLOOR AREA</b>	<b>6,483</b>	<b>47,737</b>

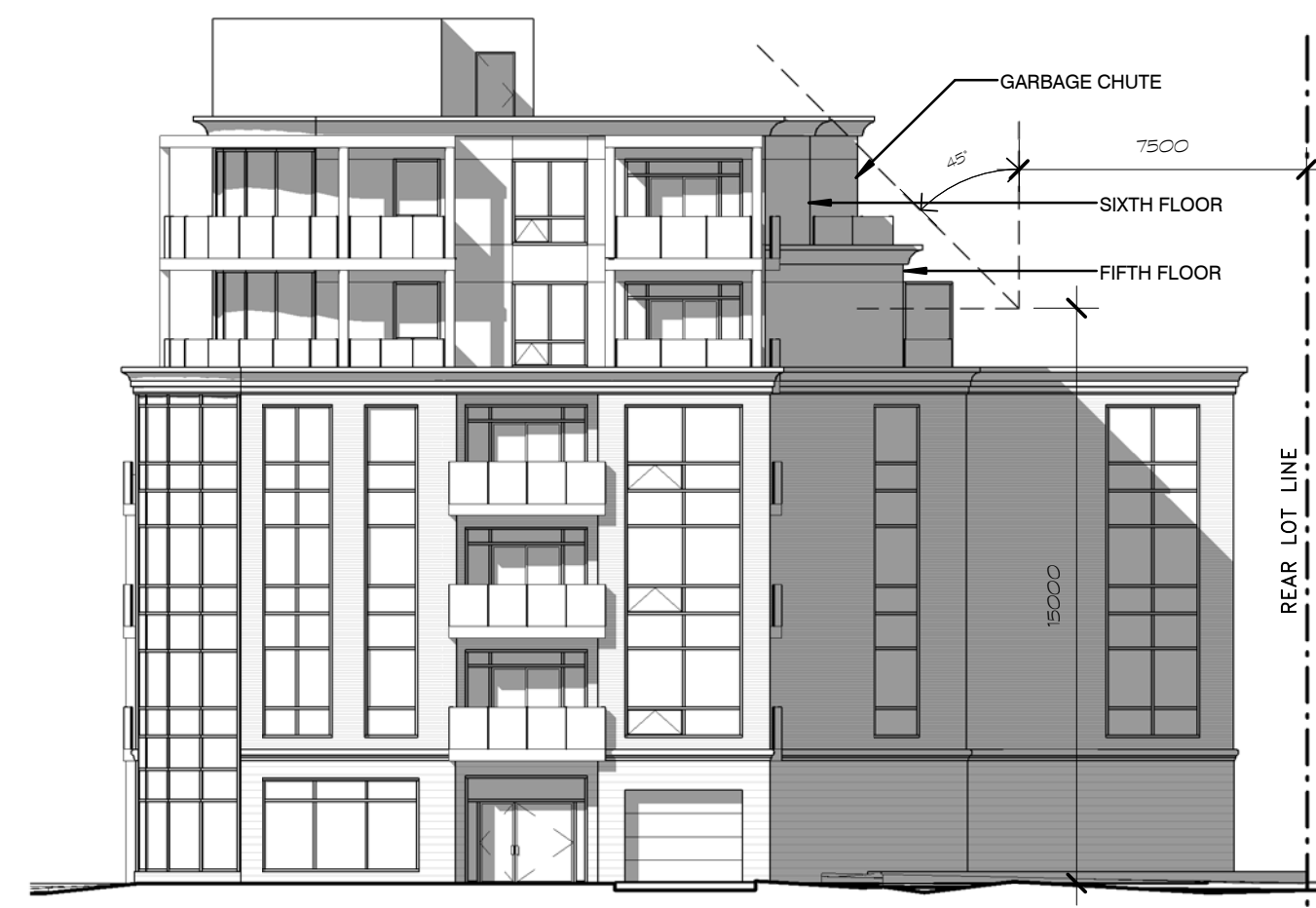
**APARTMENT UNIT STATS**

	1-BEDROOM UNITS	2-BEDROOM UNITS	TOTAL UNIT COUNTS
2nd FLOOR	3	4	7
3rd FLOOR	3	4	7
4th FLOOR	3	4	7
5th FLOOR	2	3	5
6th FLOOR	2	3	5
<b>TOTAL</b>	<b>13</b>	<b>18</b>	<b>31</b>

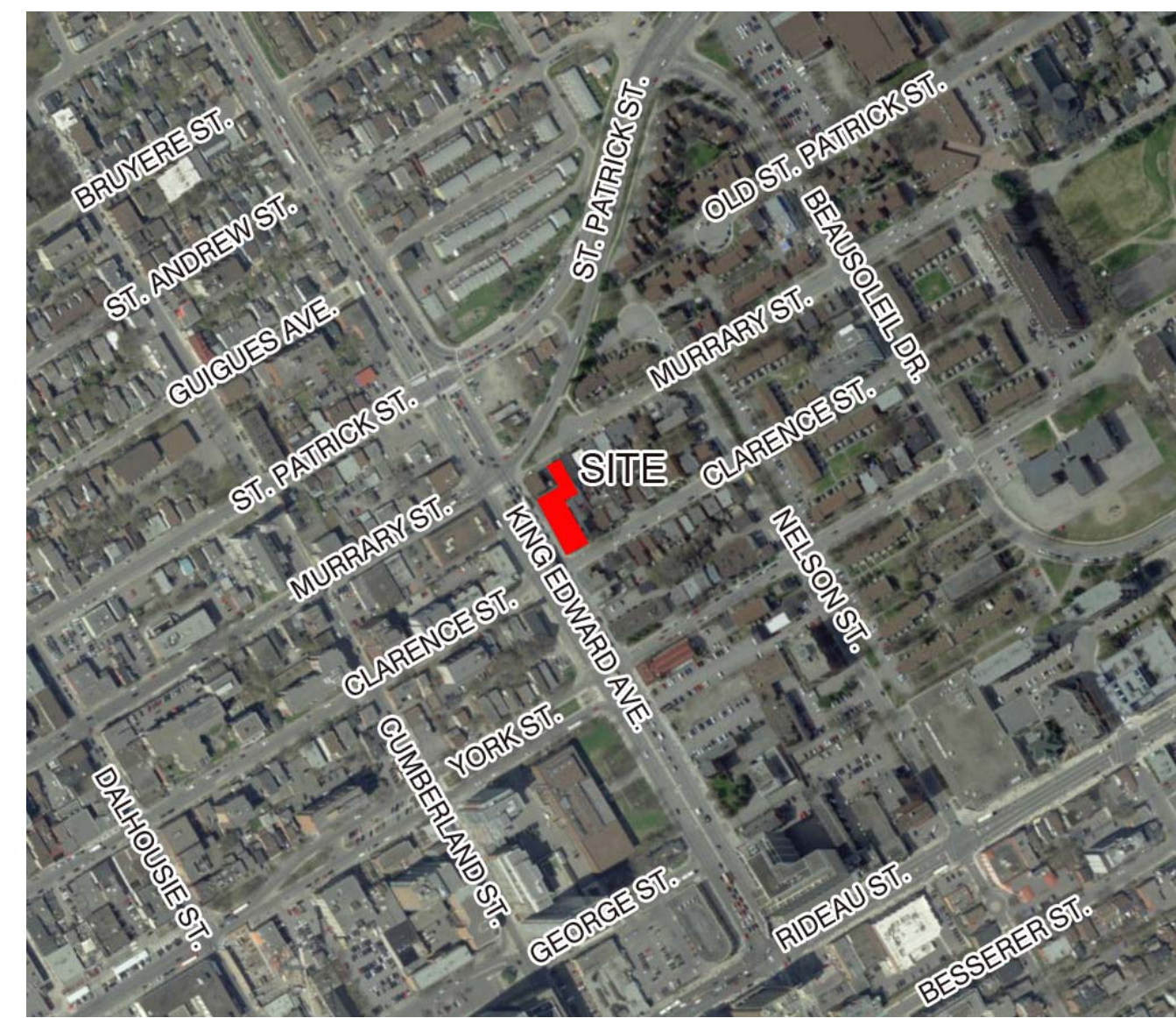
**AMENITY AREA NOTES**

**REQUIRED AREA**  
 31 UNITS @ 6 sq.m./UNIT = 186 sq.m.  
 COMMUNAL = 50% OF TOTAL = 93 sq.m.

**PROVIDED AREA**  
 COMMUNAL AREA REAR YARD  
 PRIVATE (BALCONIES)  
 TOTAL  
 2,417 SQ.FT (225 SQ.M.)  
 2,717 SQ.FT (252 SQ.M.)  
 5,134 SQ.FT (477 SQ.M.)



3 SOUTH ELEVATION  
 SCALE 1:192



1 LOCATION PLAN  
 A100 SCALE N.T.S.

**LEGAL DESCRIPTION:**

**PART OF LOTS B and 7  
 NORTH CLARENCE STREET  
 (FORMERLY PARRY STREET)  
 REGISTERED PLAN 43586**

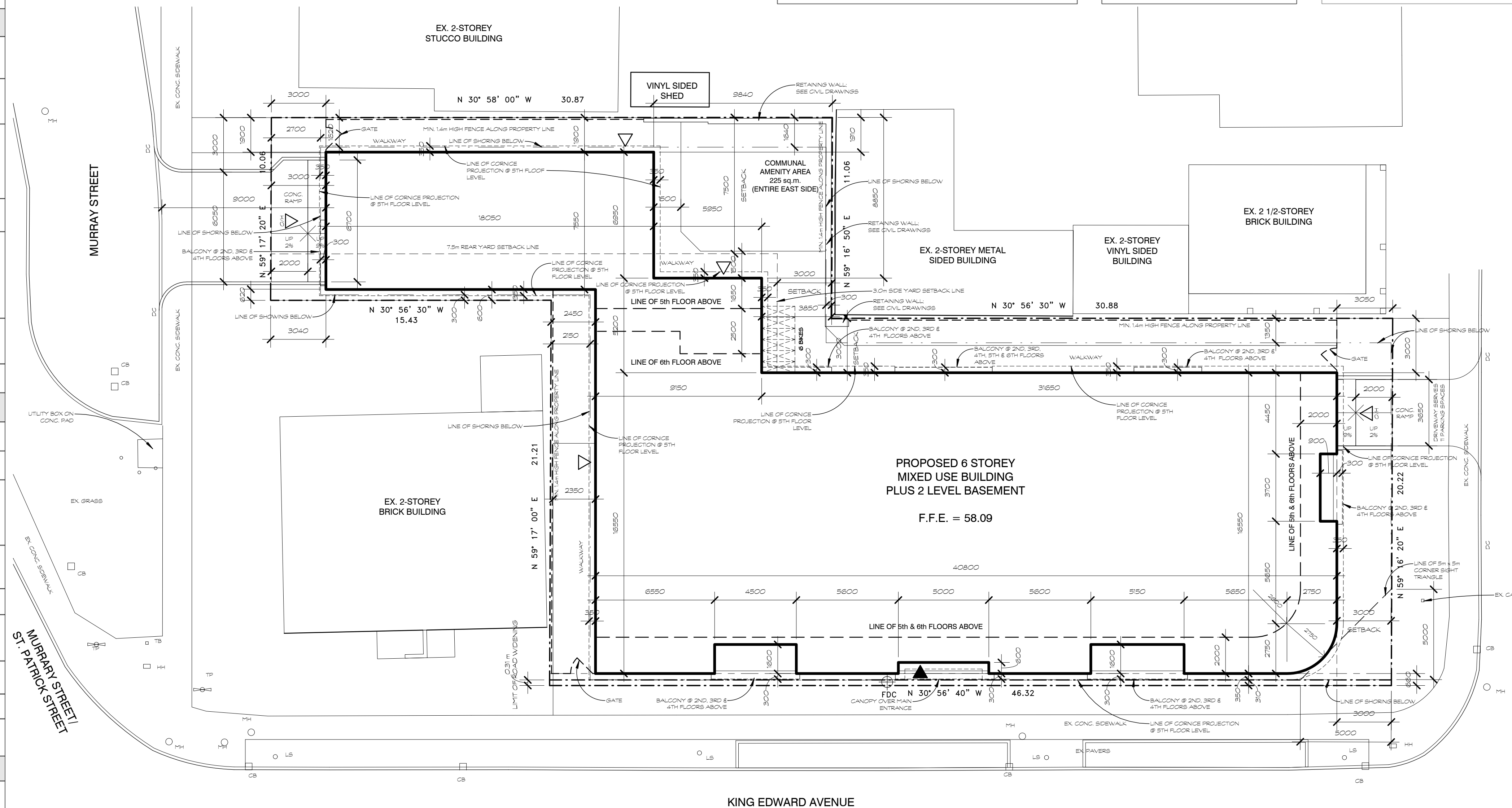
CITY OF OTTAWA

PREPARED BY  
 ANNIS, O'SULLIVAN, VOLLEBECK LTD.  
 SEPTEMBER 9, 2014

**LEGEND:**

- CB = CATCH BASIN
- DC = DEPRESSED CURB
- FH = FIRE HYDRANT
- FDC = FIRE DEPARTMENT CONNECTION
- LS = LIGHT STANDARD
- MH = MAN HOLE
- TB = TRAFFIC BOX
- TP = TRAFFIC LIGHT POST
- ▲ = PRINCIPAL ENTRANCE
- △ = EXIT DOOR
- = OVER-HEAD DOOR
- △ WITH NUMBERS = DENOTES REVISION

PERFORMANCE STANDARD	BY-LAW REQUIREMENT	PROVIDED
<b>TRADITIONAL MAINSTREET ZONE REQUIREMENTS (SECTION 197)</b>		
Front yard setback (King Edward)	• 1 <sup>st</sup> - 4 <sup>th</sup> storeys = Max. 2m • Above 4 <sup>th</sup> storey = Min. 2m more than setback of 1 <sup>st</sup> four storeys	• 1 <sup>st</sup> - 4 <sup>th</sup> storeys = 0.3 m • 5 <sup>th</sup> - 6 <sup>th</sup> storeys = 2.3 m
Interior side yard setback	• Abutting residential zone = Min. 3m • Other cases = Max. 3m	• Abutting residential zone = 3.0 m, 3.8 m • Other cases = 0.6 m, 2.4 m
Corner side yard setback (Clarence & Murray)	• 1 <sup>st</sup> - 4 <sup>th</sup> storeys = Min. 3 m • Above 4 <sup>th</sup> storey = Min. 2 m more than setback of 1 <sup>st</sup> four storeys	• 1 <sup>st</sup> - 4 <sup>th</sup> storeys: - Clarence St. = 3.0 m - Murray St. = 3.0 m • 5 <sup>th</sup> - 6 <sup>th</sup> storeys: - Clarence St. = 5.0 m - Murray St. = N/A
Rear yard setback	• Abutting residential zone = Min. 7.5 m	• 1.9 m for portion near Murray St.
Building height	• Max. 20 m, but no more than 6 storeys • No part of a building on a lot with a rear lot line abutting an R1, R2, R3 or R4 Zone may project above a 45 degree angular plane measured at a height of 15 m from a point 7.5 m from the rear lot line, projecting upwards toward the front lot line	• 6 storeys (19.5m) & 4 storey bay (13.1m) on Murray St. • Portion of cornice projects 1.2m into angular plane
Landscaped area	• Abutting a residential zone: 3m, may be reduced to 1 m where a minimum 1.4 m high opaque fence is provided	• 1.9m & 3.0m landscape area (soft + hard) with 1.4m high fence
Glazing along King Edward	• 50%	• 56%
<b>PARKING &amp; LOADING PROVISIONS (SECTIONS 100 - 113)</b>		
Residential parking	0.5 spaces/dwelling unit x 31 units = 16 spaces	20 spaces
Visitors' parking	0.2 spaces/unit (over 12 units) = 4 spaces	4 spaces
Parking for ground floor commercial in TM zone	(0 spaces/1 <sup>st</sup> 150 m <sup>2</sup> ) + (2.5 spaces/100m <sup>2</sup> over 1 <sup>st</sup> 150m <sup>2</sup> ) = [(420m <sup>2</sup> - 150m <sup>2</sup> ) x (2.5 spaces/100m <sup>2</sup> )] = 7 spaces	6 spaces
Driveway Width	• In TM zone: - Min. 3.0 m leading to less than 20 spaces - Min. 6.0 m leading to 20 or more spaces	• Clarence St. = 3.6m • Murray St. = 6.0m
Aisle Width	6.7 m (two-way traffic)	• 6.7 m
Bicycle parking	• Residential: 0.5 spaces/D.U. = 16 spaces • Retail: 1 space/250m <sup>2</sup> retail = 2 spaces • Total = 18 spaces	18 spaces
Bicycle parking space dimensions	• Vertical: Length = 1.5m; Width = 0.5m • Horizontal: Length = 1.8m; Width = 0.6m	1.8m x 0.6m (Horizontal)
Bicycle parking aisle width	• Min. 1.5m	1.5m
Loading Space	In TM Zone, no loading space required for each retail use with a GFA < 1,000 m <sup>2</sup> (0 required)	0 loading spaces
<b>AMENITY AREA (SECTION 137)</b>		
Amenity Area	• Total (6 m <sup>2</sup> / d.u.) = 186 m <sup>2</sup> • Communal (50% of total) = 93 m <sup>2</sup>	• Total = 477 m <sup>2</sup> • Communal = 225 m <sup>2</sup> • Private = 252 m <sup>2</sup>



2 SITE PLAN  
 A100 SCALE 1:150

**Registered Owner:**  
**CLAUDE LAUZON GROUP LTD**  
 274 DALHOUSIE STREET  
 OTTAWA, ONTARIO, K1N 7E6  
 Tel: (613) 241-1600 x224  
 Fax:  
 e-mail: lise@claudelauziongroup.ca

**Project Manager:**  
**CLAUDE LAUZON GROUP LTD**  
 274 DALHOUSIE STREET  
 OTTAWA, ONTARIO, K1N 7E6  
 Tel: (613) 241-1600 x224  
 Fax:  
 e-mail: mperron@claudelauziongroup.ca

**Planning Consultant:**  
**NOVATECH ENGINEERS, PLANNERS & LANDSCAPE ARCHITECTS**  
 740 MICHAEL COWPLAND DRIVE, SUITE 200  
 OTTAWA, ONTARIO K2M 1P6  
 Tel: (613) 254-9643 x 308  
 Fax: (613) 254-5867  
 e-mail: cjacques@novatech-eng.com

**Civil Engineer:**  
**STANTEC CONSULTING LTD.**  
 1131 CLYDE AVENUE, SUITE 400  
 OTTAWA, ONTARIO  
 Tel: (613) 722-4420  
 Fax:  
 e-mail:

**Geotechnical Engineer:**  
**INSPEC SOL INC.**  
 179 COLONNADE ROAD, SUITE 400  
 NEPEAN ONTARIO K2E 7J4  
 Tel: (613) 727-0895  
 Fax: (613) 727-0381  
 e-mail:

**Landscape Architect:**  
**NOVATECH ENGINEERS, PLANNERS & LANDSCAPE ARCHITECTS**  
 740 MICHAEL COWPLAND DRIVE, SUITE 200  
 OTTAWA, ONTARIO K2M 1P6  
 Tel: (613) 254-9643  
 Fax: (613) 254-5867  
 e-mail:

**Surveyor:**  
**ANNIS, O'SULLIVAN, VOLLEBECK LTD.**  
 14 CONCOURSE GATE, SUITE 500  
 OTTAWA, ONTARIO K2E 7S6  
 Tel: (613) 727-0850  
 Fax: (613) 727-1079  
 e-mail:

**NOTES:**  
 Contractor shall check and verify all dimensions on site and report any discrepancies to the Architect before proceeding.

no. revision date

north nord

**kwc**  
 383 Parkdale Avenue, Suite 201  
 Ottawa Ontario Canada K1Y 4R4  
**KWC ARCHITECTS INC.**  
 PHONE (613) 238-2117  
 FAX (613) 238-6595  
 E MAIL kwc@kwc-arch.com

detail no. 1 detail no.  
 sheet no. A1 feuille no.

project project  
 project

**MIXED-USE BUILDING**  
 275 KING EDWARD AVE.  
 OTTAWA, ON.

designed by TB/LK approved by  
 drawn by AK project no. 1611 LKA  
 date 07 APRIL 2016 scale as noted  
 drawing / dessin

**SITE PLAN**

revision sheet no. A100  
 no. de feuille no. de feuille

plot scale 1:1