

# 1137 Ogilvie Road & 1111 Cummings Avenue Transportation Impact Assessment

Step 1 Screening Report

Step 2 Scoping Report

Step 3 Strategy Report (Revised for SPA)

Prepared for:

TCU Development Corporation  
150 Isabella St, Unit 1207  
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Prepared by:



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September 2025

PN: 2023-139

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## 1 Screening

This study has been prepared according to the City of Ottawa’s 2017 Transportation Impact Assessment (TIA) Guidelines, incorporating the 2023 Revision to Transportation Impact Assessment Guidelines. Accordingly, a Step 1 Screening Form has been prepared and is included as Appendix A, along with the Certification Form for the TIA Study PM. As shown in the Screening Form, a TIA is required, and this study has been prepared to support a site plan application.

## 2 Existing and Planned Conditions

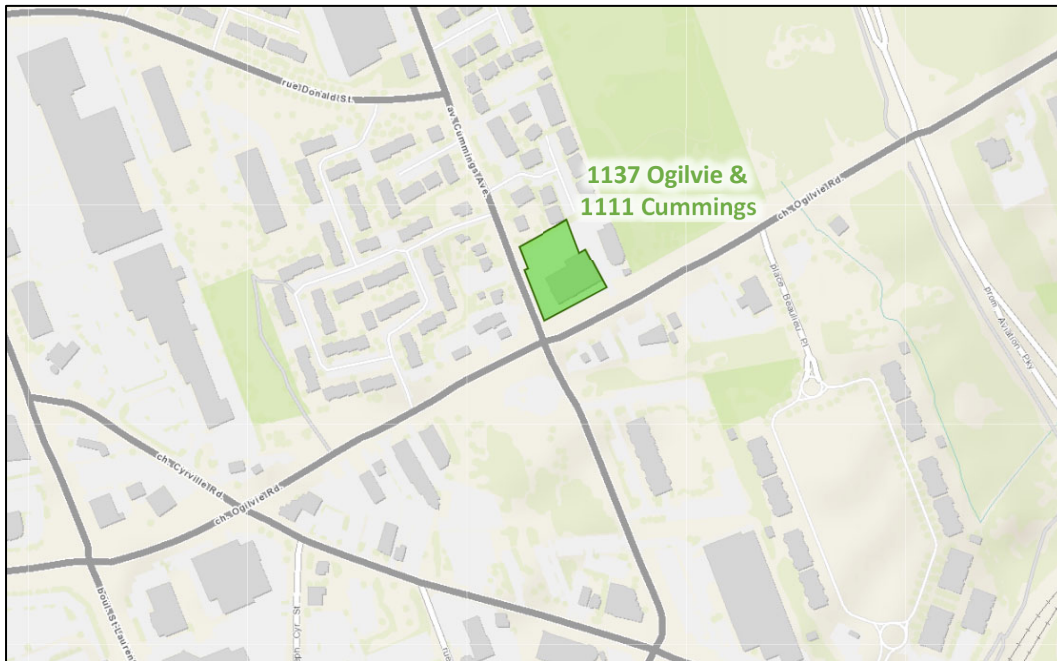
### 2.1 Proposed Development

The site is currently zoned as local commercial (LC6), although is undergoing rezoning to Transit-Oriented Development Zone (TD3) to support the proposed residential use, and is within the Cyrville TOD Plan area and design priority area. The existing site is occupied presently by a commercial building comprising a restaurant and a supermarket with surrounding surface parking lots. The boundary street of Ogilvie Road is a "Mainstreet within Design Priority Area" corridor.

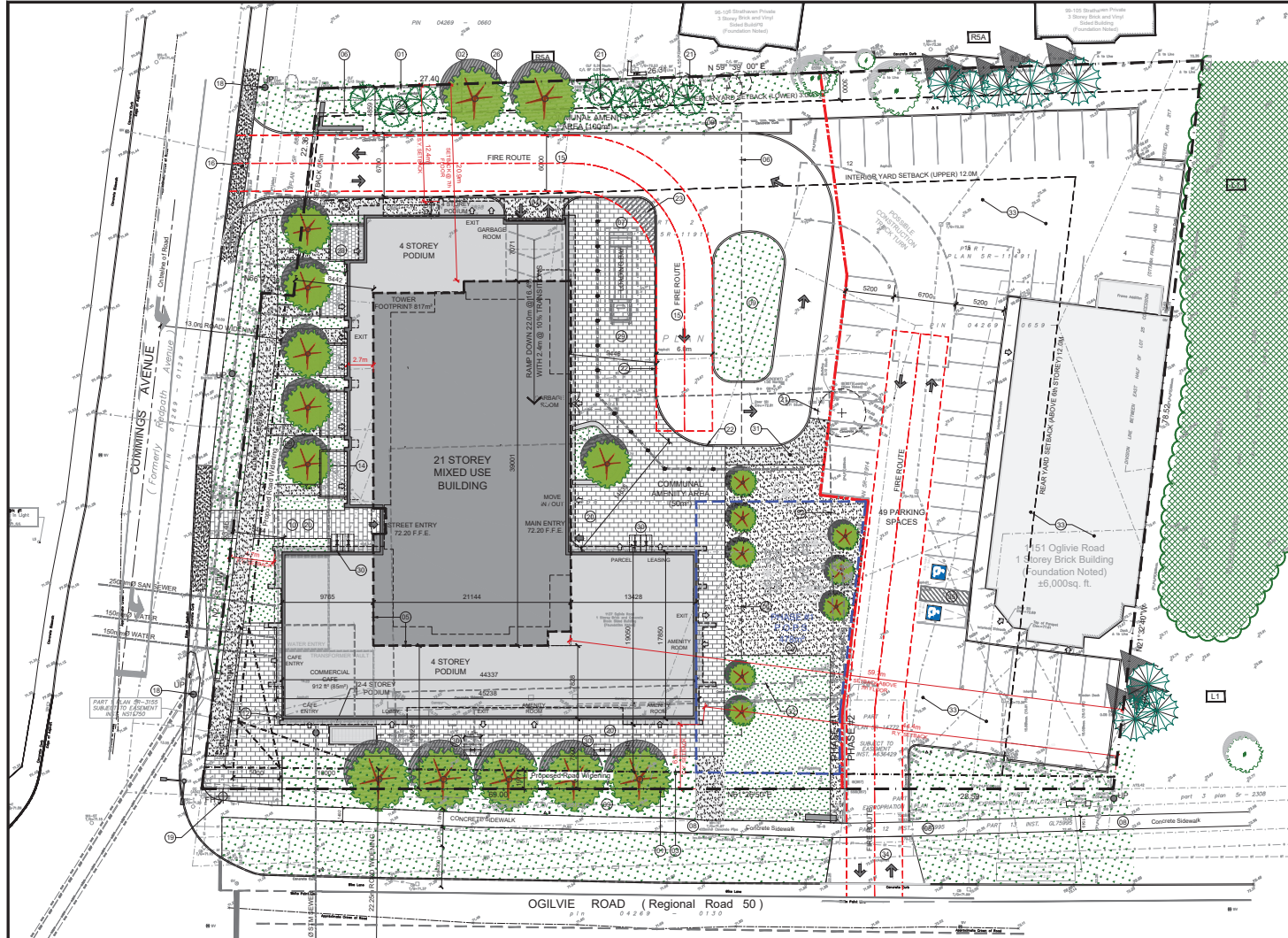
The proposed development is the first phase of the overall site that is the subject of the rezoning application, and includes one 21-storey and one 30-storey residential building with potential for a mixed-use podium. This first phase comprises the construction of the 21-storey building on the 1137 Ogilvie Road and 1111 Cummings Avenue parcels on the northeast quadrant of the intersection of Ogilvie Road at Cummings Avenue, and is proposed as including a total of 271 residential units and 912 ft<sup>2</sup> of ground-floor commercial space. Parking for 147 vehicles and 283 bicycles is proposed, to be accessed via a two-way full-movement access at the north end of the Cummings Avenue frontage. This phase of development is anticipated to be built out by 2027.

Figure 1 illustrates the study area context. Figure 2 illustrates the proposed concept plan.

Figure 1: Area Context Plan



Source: <http://maps.ottawa.ca/geoOttawa/> Accessed: October 24, 2023



### PROJECT INFORMATION

Zoning By-law 2008-250 Consolidation    LDR    SITE AREA    0.74 ha    7,384.8 sq. m. (288,241 sq. ft.)

ZONING	REQUIRED	PROVIDED
DENSITY: RESIDENTIAL USE, 300 UNITS/HECTARE MIN. PHASE 1 ONLY	30 STOREYS/150,000	21 STOREYS/141,000
ALLOWABLE PROJECTION - AMENITY LEVEL	0.0m @ 0.0m <sup>2</sup>	4.5m @ 200.0m <sup>2</sup>
FRONT YARD SETBACK - CLIMBERS	0.0m	0.0m
CORNER SIDE YARD SETBACK - OGLIVE	0.0m	0.0m
INTERIOR YARD SETBACK - 6 STOREYS & BELOW	3.0m	14.4m
INTERIOR YARD SETBACK - 7 STOREYS & ABOVE	12.0m	202.0m
REAR YARD SETBACK - 6 STOREYS & BELOW	0.0m	0.0m
REAR YARD SETBACK - 7 STOREYS & ABOVE	12.0m	59.7m
AMENITY AREA - TOTAL PER UNIT	1,800.0m <sup>2</sup>	2,205.0m <sup>2</sup>
AMENITY AREA - 50% COMMANAL PER UNIT	813.0m <sup>2</sup>	1,102.5m <sup>2</sup>
VEHICLE PARKING - RESIDENTIAL - 0.5 PER UNIT AFTER 12 UNITS PER BUILDING	130	116
VEHICLE PARKING - VISITOR - 0.5 PER UNIT, MAX. 30 PER BUILDING	26	26
VEHICLE PARKING - COMMERCIAL	0	0
BIKE PARKING - RESIDENTIAL - 0.5 PER UNIT	136	275
BIKE PARKING - COMMERCIAL	1	4
TOWER FOOTPLATE - GUIDELINE WIDTH	0.0m	0.0m
TOWER FLOOR PLATE - GUIDELINE WIDTH	750m <sup>2</sup>	817.0m <sup>2</sup>

### NOTATION SYMBOLS:

- INDICATES DRAWING NOTES LISTED ON EACH SHEET
- INDICATES ASSEMBLY TYPE REFER TO TYPICAL ASSEMBLY SCHEDULE
- INDICATES WINDOW TYPE REFER TO WINDOW ELEVATION AND DETAILS ON AREA SERIES
- INDICATES DOOR TYPE REFER TO DOOR SCHEDULE AND DETAILS ON AREA SERIES
- INDICATES DETAIL REFERENCE PAGE
- INDICATES DETAIL CROSS REFERENCE PAGE

### PROJECT DEVELOPER

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### LANDSCAPE ARCHITECT

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Fax: (613) 727-1079

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### WIND / SOUND ENGINEER

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Tel: (613) 836-9334 ext. 116  
Cell: (613) 296-5273  
E-Mail: josiah.foster@gradientwind.com

### LEGAL DESCRIPTION

**TOPOGRAPHIC PLAN OF SURVEY OF**  
PART OF LOT 18  
REGISTERED PLAN 217  
CITY OF OTTAWA  
Surveyed by Annis, O'Sullivan, Vollebek Ltd.

### BUILDING STATISTICS

GROSS BUILDINGS AREA	WEST TOWER 'A'
GROUND FLOOR	1,124.2 sq. m.
2nd & 3rd FLOOR	2,112.8 sq. m.
4th FLOOR	1,523.3 sq. m.
5th FLOOR	200.2 sq. m.
6th - 21st FLOOR - TOWER	16,411.0 sq. m.
2nd AMENITY / MECHANICAL PERIMETER	112.0 sq. m.
TOTAL AREA	18,483.5 sq. m.
TOWER FOOTPRINT AREA (EXCLUDING PROTRUSIONS)	877.0 sq. m.
COMMERCIAL CAFE AREA	80.0 sq. m.

### UNIT STATISTICS

UNIT TYPE	NO.	%
1 BEDROOM UNIT	116	33.1%
1 BEDROOM + DEN UNIT	116	33.1%
2 BEDROOM UNIT	116	33.1%
2 BEDROOM + DEN UNIT	116	33.1%
3 BEDROOM UNIT	116	33.1%
TOTAL	570	100%

### CAR PARKING

MINIMUM REQUIRED	PROVIDED
RESIDENCE - 0.5 PER UNIT AFTER 10	130
RESIDENCE - 0.1 PER UNIT AFTER 10	26
COMMERCIAL - RESTAURANT - 1 PER 100 SQ. M.	0
TOTAL	156

### PARKING SPACE SIZE

STANDARD SPACE (24.0 x 9.2)	SMALL CAR SPACE (24.0 x 4.8)	BARBER FREE SPACE TYPE A (2.0 x 4.0 x 5.20)	BARBER FREE SPACE TYPE B (2.0 x 4.0 x 5.20)
42	21	0	0
116	116	0	0
TOTAL	237	0	0

### BIKE PARKING

REQUIRED	PROVIDED
RESIDENCE - 0.5 PER UNIT (116 UNITS)	116
COMMERCIAL - 1 PER 100 SQ. M.	0
TOTAL	116

### AMENITY SPACE

REQUIREMENT	PROVIDED
EXTERIOR NORTH DECK - COMMANAL	100.0 sq. m.
EXTERIOR COURTYARD - COMMANAL	50.0 sq. m.
EXTERIOR AT GRADE TERRACE - PRIVATE	100.0 sq. m.
1st FL. INTERIOR LOBBY - COMMANAL	180.0 sq. m.
1st FL. INTERIOR FLEX AREA - COMMANAL	350.0 sq. m.
5th FLOOR INTERIOR - COMMANAL	240.0 sq. m.
5th FLOOR TERRACE - COMMANAL	500.0 sq. m.
ROOF TOP AMENITY ROOM	130.0 sq. m.
ROOF TOP AMENITY TERRACE	0.0 sq. m.
PRIVATE TERRACE	25.0 sq. m.
PRIVATE BALCONIES	330.0 sq. m.
TOTAL	2,205.0 sq. m.
TOTAL COMMANAL @ 50%	1,102.5 sq. m.
REQUIRED COMMANAL @ 50%	813.0 sq. m.

### LOT COVERAGE

TYPE	AREA (sq. m.)	%
PHASE 02 AREA	2,622.0	35.3%
PRIVD SURFACE	793.0	10.7%
BUILDING FOOTPRINT	1,441.0	19.5%
LANDSCAPE OPEN SPACE	2,048.0	27.7%
P.O.P.	453.0	6.1%
TOTAL	7,384.8	100.0%

### DRAWING NOTES

- PROPERTY LINE
- 100% LINE BUILDING SETBACK LINES
- PROPOSED 4.5m SETBACK
- ENTRY RAMP TO GARAGE WITH TRENCH DRAIN
- OUTLINE OF TOWER ABOVE
- LOADING BAY
- EX. CONCRETE SIDEWALK TO REMAIN
- SOFT LANDSCAPING, SEE LANDSCAPE PLAN
- BELOW GRADE SYSTEM IN PARKING GARAGE
- T.B.O. 1.2 x 0.8 CONCRETE PAD FOR CASE EQUIPMENT WITH BOLLARDS AS REQUIRED (GAS BLOW OFF)
- SIEMENS CONNECTION
- PROPOSED UTILITIES, SEE CIVIL
- PRIVACY FENCE / GATE
- 0.5m WIDE FIRE ROUTE
- CONCRETE SIDEWALK, CONTINUOUS & DEPRESSURED THROUGH DRIVEWAY, SEE CITY DETAIL SC 7.1
- 150mm HY CONCRETE BARRIER CURB
- EXISTING HYDRO POLE & OVERHEAD WIRES
- FIRE HYDRANT
- HARD SURFACE WALK, SEE LANDSCAPE
- EXISTING TREE TO BE REMOVED
- FLUSH CURB AROUND ENTRY AREA
- MONUMENT APRON
- PROPOSED PHASE 1 P.O.P.S.
- BALCONY ABOVE
- EXISTING CEDAR HEDGE TO BE REMOVED
- T.B.O. METAL GRATE - INTAKE / EXHAUST AIR SHUNT
- PRIVATE TERRACES AT GROUND LEVEL
- GARAGE BIN PICKUP AREA
- SURFACE MOUNTED BIKE RACK
- INTERIM CONNECTION PATHWAY
- EXISTING BUILDING / ASPHALT PARKING LOT TO BE REMOVED
- CONSTRUCTION STAGING AREA
- EXISTING BIKE RACK TO REMAIN
- EXISTING ENTRANCE TO REMAIN
- SERVICE / EXIT DOOR
- EXISTING BIKE RACK TO REMAIN
- 1.5m ACCESS AISLE AND CYCLING
- PROPOSED CITY CYCLING BOULEVARD
- SOFT LANDSCAPE PLANTING
- ENTRANCE BOULEVARD / WALKWAYS
- PRIVATE PATIOS
- PAVERS @ TERRACE LEVEL
- PROPOSED CITY BOLLARD, CONCRETE CONDUIT & ASPHALT CYCLE TRACK
- BIKE RACK (8x1.8m BIKE PARKING SPACE)
- MAIN ENTRANCE DOOR
- SERVICE / EXIT DOOR
- VEHICULAR DIRECTION
- EXISTING TREE TO BE REMOVED
- PROPOSED TREE
- SIEMENS CONNECTION
- FIRE HYDRANT

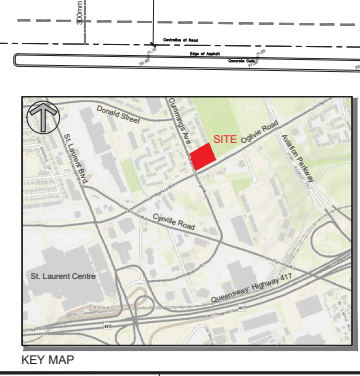
### SITE PLAN SYMBOLS:

- SOFT LANDSCAPE PLANTING
- ENTRANCE BOULEVARD / WALKWAYS
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- PROPOSED TREE
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- FIRE HYDRANT

### SITE PLAN - PHASE 1

SCALE: 1:200

KEY MAP



### DRAWING NOTES

- PROPERTY LINE
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- ENTRY RAMP TO GARAGE WITH TRENCH DRAIN
- OUTLINE OF TOWER ABOVE
- LOADING BAY
- EX. CONCRETE SIDEWALK TO REMAIN
- SOFT LANDSCAPING, SEE LANDSCAPE PLAN
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P.O.P.	453.0	6.1%
TOTAL	7,384.8	100.0%

### TCU Development Corporation

1137 OGLIVIE ROAD

OTTAWA    ONTARIO

SHEET TITLE

### rla / architecture

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t: 613.724.9322 f: 613.724.1209 rloheychitect.com

PROJECT TITLE

1137 OGLIVIE ROAD

OTTAWA    ONTARIO

SHEET TITLE

SITE PLAN  
PHASE 1 INTERIM

DATE: 2025-08-05

SCALE: 1:200

REV.    CHECKED:    K.R.

DRAWN:    SHEET NO:    SP-1

2420

## 2.2 Existing Conditions

### 2.2.1 Area Road Network

*Aviation Parkway:* Aviation Parkway is a federally owned freeway. North of Ogilvie Road, Aviation Parkway is a divided four-lane rural cross-section and has a semi-urban cross-section to the south as it transitions to Highway 417. A mixed-use path (MUP) is present along the west side of the road. The existing right-of-way is 130.0 metres or greater within the study area, and the posted speed limit is 60 km/h.

*Cummings Avenue:* Cummings Avenue is a collector road north of Donald Street, and a major collector road between Ogilvie Road and Donald Street, with a two-lane urban cross-section and sidewalks on both sides of the road. South of Ogilvie Road, Cummings Avenue is a City of Ottawa arterial road with a two-lane semi-urban cross-section, with a 1.5-metre-wide gravel shoulder on its west side and curbed with a sidewalk on its east side. The posted speed limit is 50 km/h. The City-protected right-of-way is 24.0 metres north of Donald Street, 26.0 metres between Donald Street and Ogilvie Road, and 37.5 metres south of Ogilvie Road. Cummings Avenue south of Donald Street is a truck route.

*Ogilvie Road:* Ogilvie Road is a City of Ottawa arterial road with a four-lane, divided urban cross-section with curbside bike lanes and sidewalks on both sides of the road. The posted speed limit is 60 km/h and the City-protected right-of-way is 44.5 metres within the study area. Ogilvie Road is a truck route.

*Cyrville Road:* Cyrville Road is a City of Ottawa collector road north of Cummings Avenue/Labelle Street and an arterial road south of Cummings Avenue/Labelle Street, each with a two-lane cross-section. North of Ogilvie Road, the cross-section includes a curb with a sidewalk on the east side and is uncurbed on the west side. Between Ogilvie Road and Cummings Avenue/Labelle Street, the cross-section is fully urban and includes a sidewalk and curb-side bike lane on each side of the road. South of Cummings Avenue/Labelle Street, the cross-section transitions to an uncurbed condition and includes a paved shoulder and sidewalk on the west side of the road and a MUP on the east side of the road separated by a concrete rumble strip. The posted speed limit is 60 km/h. The City-protected right-of-way is 26.0 metres north of Cummings Avenue and 37.5 metres south of Cummings Avenue/Labelle Street. Cyrville Road is a truck route.

*Donald Street:* Donald Street is a City of Ottawa major collector road with a two-lane urban cross-section, with sidewalks on both sides of the road and with curbside bike lanes on both sides of the road west of Belgate Way within the study area. On-street parking is permitted on the south side of the road between Findon Gate and Belgate Way. The posted speed limit is 50 km/h, and the existing right-of-way is 26.0 metres. Donald Street is a truck route within the study area.

*Labelle Street:* Labelle Street is a City of Ottawa major collector road with a two-lane urban cross-section with sidewalks on both sides of the road east of Michael Street N, and on the north side of the road west of Michael Street N. The unposted speed limit is assumed to be 50 km/h, and the right-of-way varies between 20.0 metres and 22.5 metres within the study area.

### 2.2.2 Existing Intersections

The existing signalized area intersections within 400 metres of the site have been summarized below:

#### *Donald Street at Cummings Avenue*

The intersection of Donald Street at Cummings Avenue is a signalized intersection. The northbound approach consists of an auxiliary left-turn lane and a through lane, and the southbound approach consists of a shared through/right-turn lane. The eastbound approach consists



of an auxiliary left-turn lane, and a right-turn lane. No turn restrictions were noted.

*Ogilvie Road at Cyrville Road*

The intersection of Ogilvie Road at Cyrville Road is a signalized intersection. The northbound approach of Cyrville Road consists of an auxiliary left-turn lane, a shared through/right-turn lane, and a bike lane and the southbound consists of an auxiliary left-turn lane and a shared through/channelized right-turn lane. The eastbound approach consists of two through lanes, a bike lane, and an auxiliary right-turn lane and the westbound approach consists of an auxiliary left-turn lane, two through lanes, a bike lane, and an auxiliary right-turn lane. Eastbound left turns are restricted at this intersection.

*Ogilvie Road at Cummings Avenue*

The intersection of Ogilvie Road at Cummings Avenue is a signalized intersection. The northbound approach consists of an auxiliary left-turn lane and a shared through/channelized right-turn lane, and the southbound approach consists of an auxiliary left-turn lane and a shared through/right-turn lane. The eastbound and westbound approaches each consist of an auxiliary left-turn lane, a through lane, a shared through/right-turn lane, and a bike lane. No turn restrictions were noted.

*Ogilvie Road at Aviation Parkway*

The intersection of Ogilvie Road at Aviation Parkway is a signalized intersection. The northbound and southbound approaches each consist of an auxiliary left-turn lane, a through lane, and a shared through/channelized right-turn lane and the eastbound and westbound approaches each consist of an auxiliary left-turn lane, two through lanes, a bike lane, and an auxiliary channelized right-turn lane. No turn restrictions were noted.

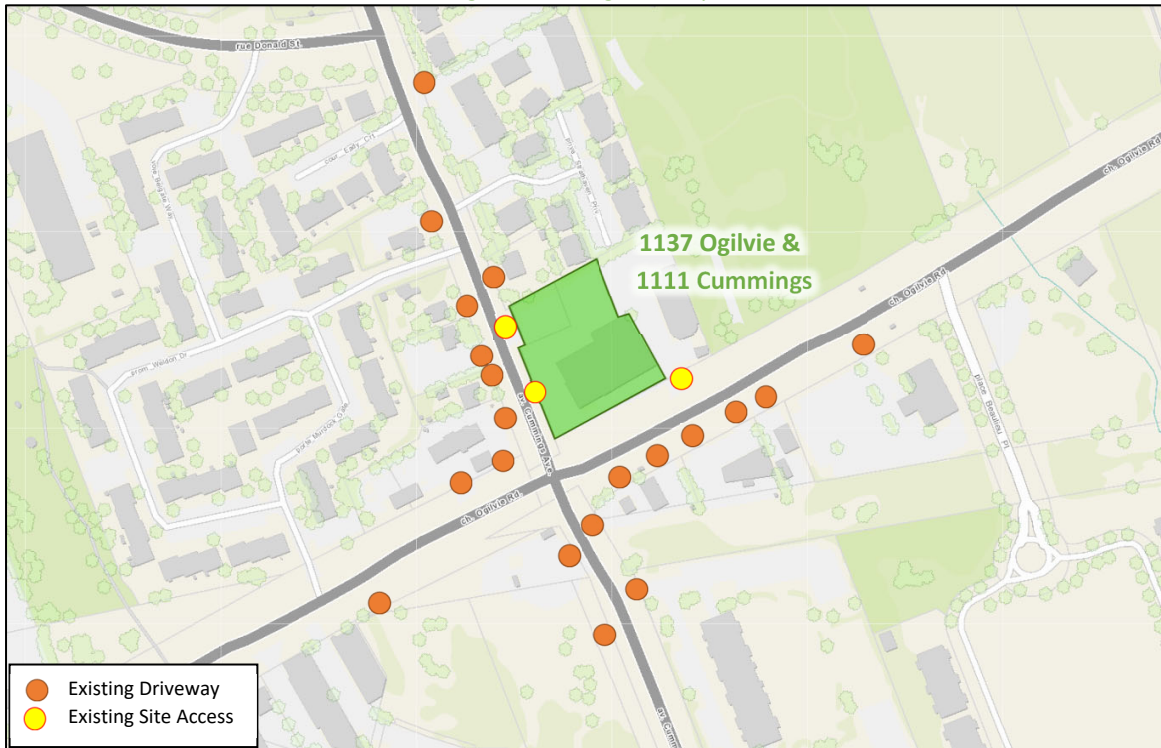
*Cyrville Road Labelle at Street / Cummings Avenue*

The intersection of Cyrville Road at Labelle Street/Cummings Avenue is a signalized intersection with the northbound and southbound approaches each consisting of an auxiliary left-turn lane and a shared through/right-turn lane, and the eastbound and westbound approaches each consisting of an auxiliary left-turn lane and a shared through/right-turn lane and a bike lane. No turn restrictions were noted.

2.2.3 Existing Driveways

Driveways to residential land uses exist on both sides of Cummings Avenue north of the proposed site access, and to gas stations, and mid-rise residential land uses and a vacant lot south of the site accesses. On Ogilvie Road, driveways to outdoor recreational, funerary and commercial services, and restaurant land uses and driveways to a gas station are present east of the site accesses, and to a vacant lot and a gas station to the west of the site accesses. Figure 3 illustrates the existing driveways.

Figure 3: Existing Driveways



Source: <http://maps.ottawa.ca/geoOttawa/> Accessed: October 24, 2023

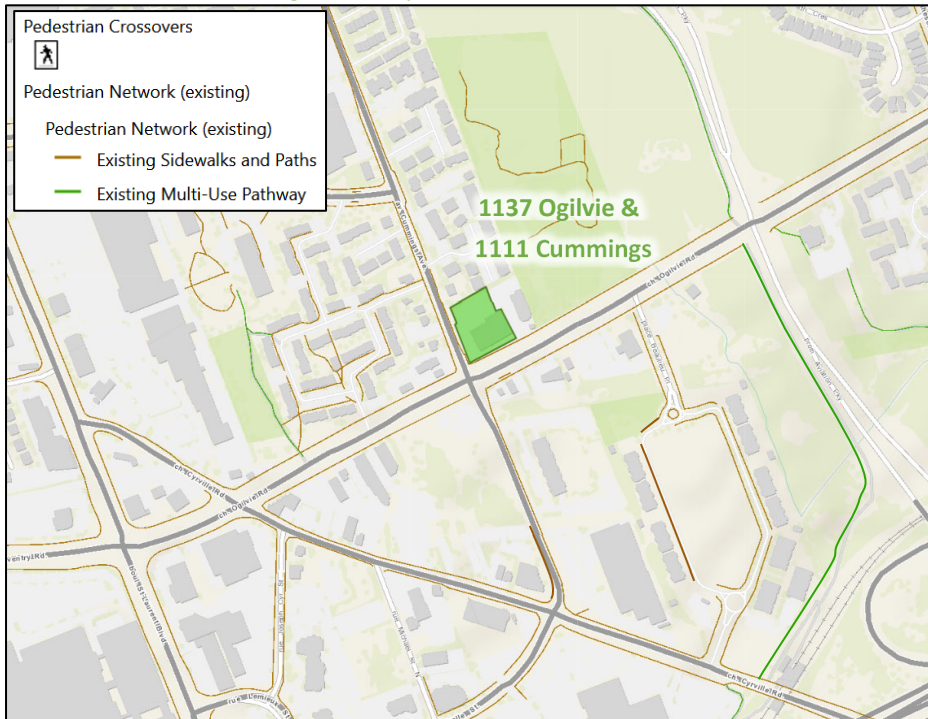
#### 2.2.4 Cycling and Pedestrian Facilities

Figure 4 illustrates the pedestrian facilities in the study area and Figure 5 illustrates the cycling facilities.

Sidewalks are provided along both sides of Cummings Avenue north of Ogilvie Road, Ogilvie Road, Cyrville Road south of Ogilvie Road, Donald Street, and Labelle Street within the study area. Sidewalks are also provided along the east side of Cyrville Road north of Ogilvie Road, of Cummings Avenue south of Ogilvie Road, and along the 1173 Cyrville Road development boundary street of Cummings Avenue.

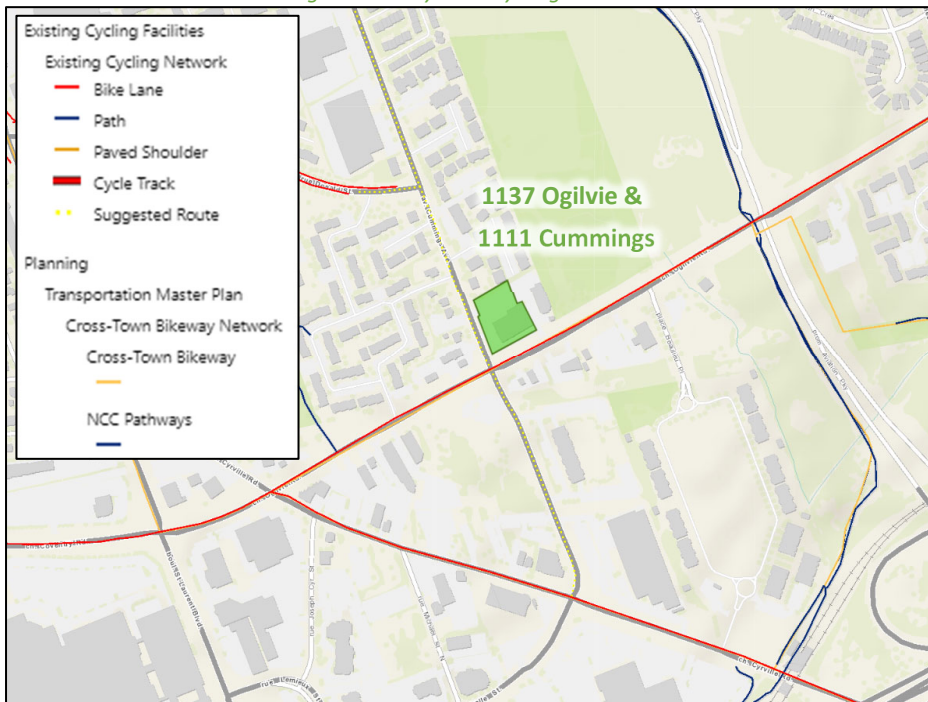
Cycling facilities include bike lanes along Ogilvie Road, Cyrville Road south of Ogilvie Road, and Donald Street. A multi-use path (MUP) is present along the west side of Aviation Parkway and on the east side of Cyrville Road separated by a concrete rumble strip. Donald Street west of St-Laurent Boulevard, St-Laurent Boulevard between Donald Street and Ogilvie Road, Ogilvie Road, Cyrville Road south of Ogilvie Road, the Aviation Pathway, and the pathway between the Aviation Parkway and Blair Station are Cross-Town Bikeways.

Figure 4: Study Area Pedestrian Facilities



Source: <http://maps.ottawa.ca/geoOttawa/> Accessed: June 21, 2024

Figure 5: Study Area Cycling Facilities



Source: <http://maps.ottawa.ca/geoOttawa/> Accessed: June 21, 2024

Pedestrian and cyclist volumes included in study area intersection counts, presented in Section 2.2.7, have been compiled and are illustrated in Figure 6 and Figure 7, respectively.

Figure 6: Existing Pedestrian Volumes

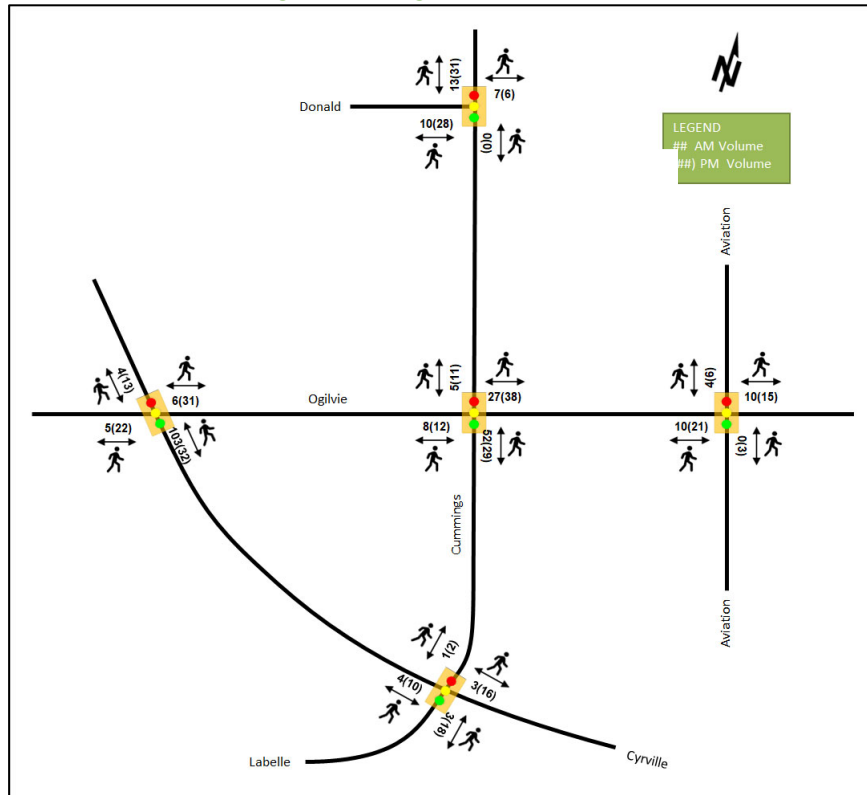
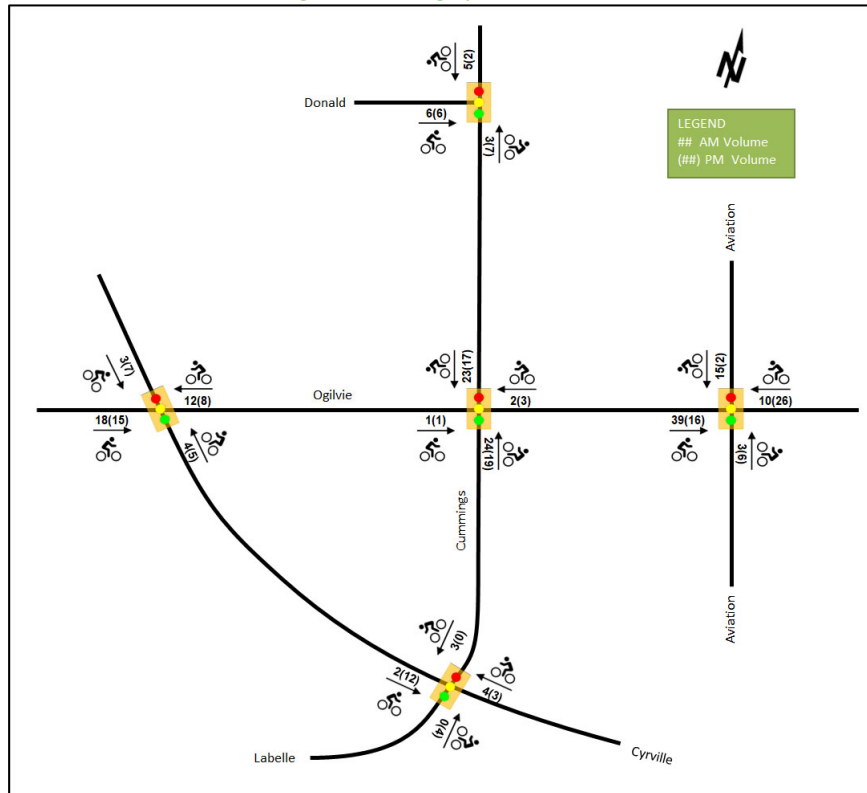


Figure 7: Existing Cyclist Volumes



2.2.5 Existing Transit

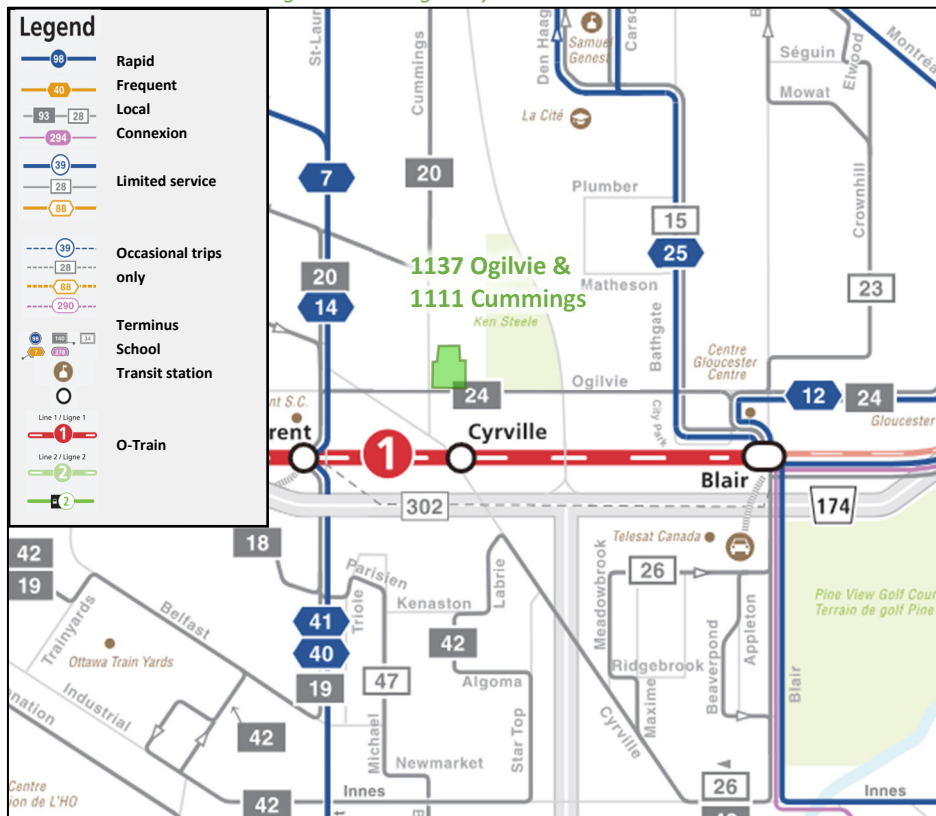
Figure 8 illustrates the transit system map in the study area and Figure 9 illustrates transit stops within 400 metres from the site and transit stations within 800 metres from the site. All transit information is from April 30, 2025 and is included for general information purposes and context to the surrounding area.

Within the study area, route #24 travel along Ogilvie Road, and route #20 travels along Donald Street and Cummings Avenue to the north. The frequency of these routes within proximity of the proposed site based on April 30, 2025 service levels are:

- Route #20 – 30-minute service all day, one hour service after 9:45 PM
- Route #24 – 15-minute service during peak hours, 30-minute service all day

Additionally, the site is approximately 700-metre walking distance of Cyrville Station and approximately 1.1-kilometres walking distance of St. Laurent LRT station, on the Confederation LRT Line. The LRT line provides 5-minute service during the peak periods, and 10–15-minute service outside of peaks.

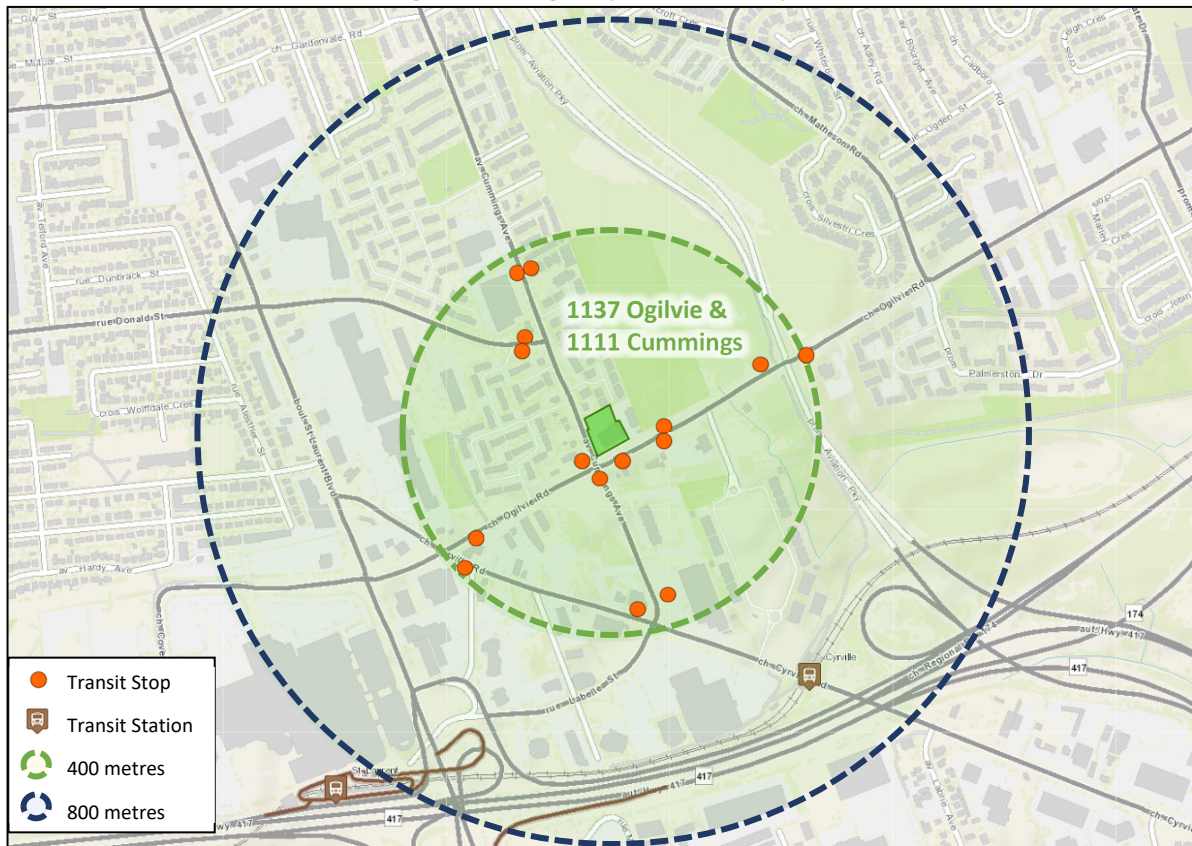
Figure 8: Existing Study Area Transit Service



Source: <http://www.octranspo.com/> Accessed: April 30, 2025



Figure 9: Existing Study Area Transit Stops



Source: <http://www.octranspo.com/> Accessed: April 30, 2025

### 2.2.6 Existing Area Traffic Management Measures

Vertical centreline treatments are present on Cummings Avenue north of Donald Street within the study area, and a centre island is present approximately 60.0 metres north of Cummings Avenue at Donald Street intersection.

### 2.2.7 Existing Peak Hour Travel Demand

Existing turning movement counts were acquired from the City of Ottawa, The Traffic Specialist, and Ontario Traffic Inc. for the existing study area intersections. Table 1 summarizes the intersection count dates.

Table 1: Intersection Count Date

Intersection	Count Date	Source
Donald Street at Cummings Avenue	Thursday, October 26, 2023	The Traffic Specialist
Ogilvie Road at Cyrville Road	Thursday, October 26, 2023	The Traffic Specialist
Ogilvie Road at Cummings Avenue	Tuesday, October 31, 2023	Ontario Traffic Inc.
Ogilvie Road at Aviation Parkway	Thursday, September 28, 2023	City of Ottawa
Cyrville Road at Cummings Avenue/Labelle Street	Thursday, October 26, 2023	The Traffic Specialist

Figure 10 illustrates the existing traffic counts and Table 2 summarizes the existing intersection operations. The level of service for signalized intersections is based on volume to capacity ratio (v/c) calculations for individual lane movements and MMLOS Guidelines weighted v/c methodology for the overall intersection, per direction from Transportation Engineering Services. Detailed turning movement count data is included in Appendix B and the Synchro worksheets are provided in Appendix C.

Figure 10: Existing Traffic Counts

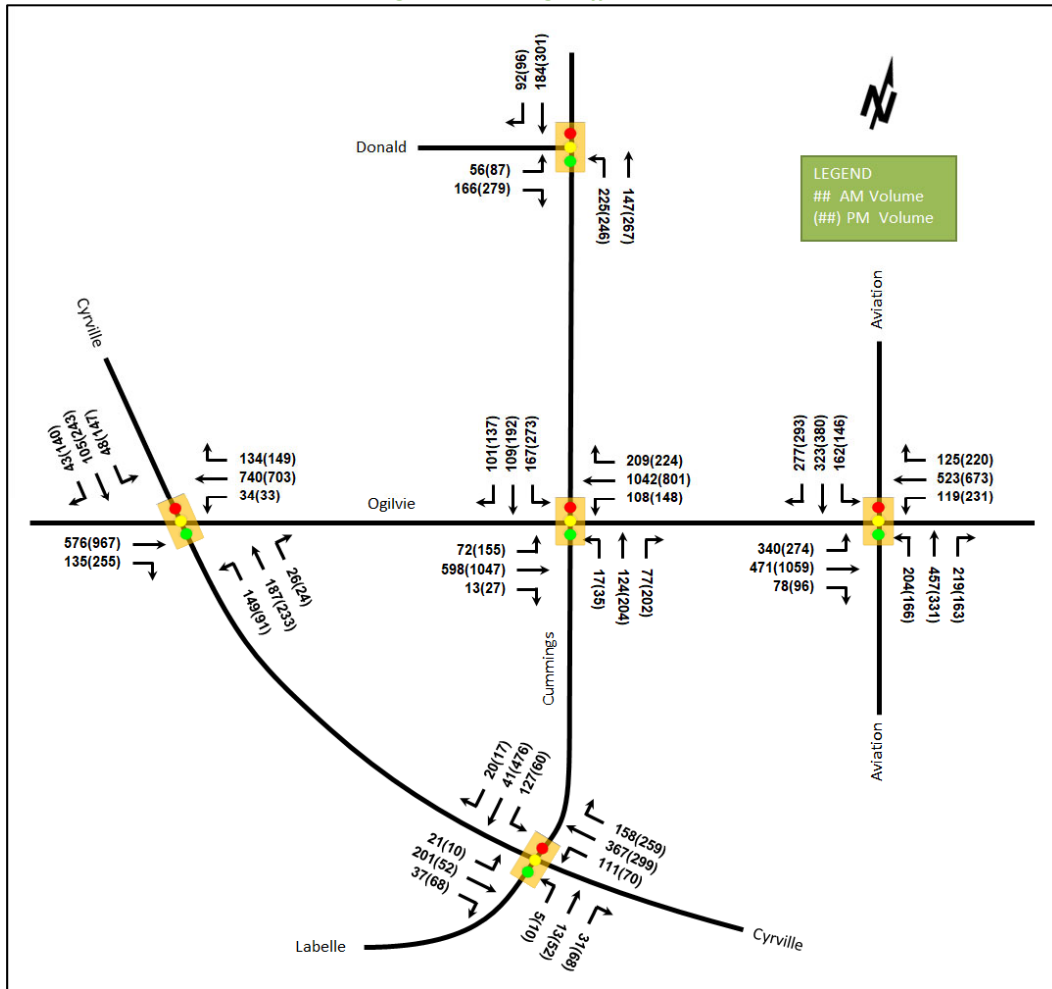


Table 2: Existing Intersection Operations

Intersection	Lane	AM Peak Hour				PM Peak Hour			
		LOS	V/C	Delay	Q (95 <sup>th</sup> )	LOS	V/C	Delay	Q (95 <sup>th</sup> )
Donald Street at Cummings Avenue <i>Signalized</i>	EBL	A	0.21	21.5	13.8	A	0.32	22.9	19.4
	EBR	A	0.44	7.7	13.2	A	0.59	8.0	16.4
	NBL	A	0.37	8.2	26.5	A	0.54	12.7	38.6
	NBT	A	0.14	5.6	13.7	A	0.29	7.2	27.9
	SBT/R	A	0.27	5.2	21.5	A	0.44	7.9	41.6
	<b>Overall</b>	<b>A</b>	<b>0.40</b>	<b>7.6</b>	-	<b>A</b>	<b>0.57</b>	<b>9.7</b>	-
Ogilvie Road at Cyrville Road <i>Signalized</i>	EBT	A	0.29	9.2	53.3	A	0.54	16.5	109.4
	EBR	A	0.15	2.0	8.5	A	0.30	2.5	12.6
	WBL	A	0.09	2.2	m1.1	A	0.17	24.3	m6.3
	WBT	A	0.36	1.9	20.3	A	0.39	23.3	m61.2
	WBR	A	0.16	0.3	m0.4	A	0.19	10.1	m10.5
	NBL	D	0.85	81.9	60.3	D	0.89	99.5	#50.2
	NBT	C	0.71	57.0	73.2	A	0.57	39.4	75.7
	SBL	A	0.37	48.6	21.7	C	0.75	59.0	56.2
	SBT/R	A	0.49	43.6	48.4	D	0.87	55.5	118.2
<b>Overall</b>	<b>A</b>	<b>0.44</b>	<b>18.5</b>	-	<b>A</b>	<b>0.57</b>	<b>28.3</b>	-	

Intersection	Lane	AM Peak Hour				PM Peak Hour			
		LOS	V/C	Delay	Q (95 <sup>th</sup> )	LOS	V/C	Delay	Q (95 <sup>th</sup> )
<b>Ogilvie Road at Cummings Avenue Signalized</b>	EBL	A	0.51	35.1	26.2	D	0.85	68.4	#64.2
	EBT	A	0.39	16.7	52.8	F	1.10	90.4	#211.9
	WBL	A	0.31	13.8	m19.8	D	0.84	61.9	m#49.2
	WBT/R	D	0.83	29.9	m209.8	F	1.09	92.5	m#168.7
	NBL	A	0.09	40.5	10.7	A	0.15	34.6	16.1
	NBT/R	B	0.67	52.2	73.9	E	0.99	80.5	#165.4
	SBL	C	0.75	55.4	#58.9	F	1.01	82.8	#108.8
	SBT/R	A	0.47	33.6	63.3	A	0.49	23.6	80.2
<b>Overall</b>	<b>C</b>	<b>0.79</b>	<b>30.0</b>	-	<b>F</b>	<b>1.04</b>	<b>80.1</b>	-	
<b>Ogilvie Road at Aviation Parkway Signalized</b>	EBL	E	0.95	71.1	#127.8	D	0.82	33.3	m43.9
	EBT	A	0.44	33.3	72.3	E	0.95	37.6	m85.2
	EBR	A	0.13	3.3	m5.0	A	0.17	4.9	m1.6
	WBL	A	0.34	21.7	31.1	E	0.95	76.0	#96.2
	WBT	A	0.56	39.7	83.8	A	0.60	32.5	94.1
	WBR	A	0.24	3.9	9.7	A	0.34	4.5	16.2
	NBL	C	0.80	72.5	81.6	F	1.03	127.3	#90.7
	NBT	D	0.82	47.8	108.2	D	0.81	50.7	#79.3
	SBL	F	1.17	175.5	#100.5	F	1.24	201.1	#89.9
	SBT	E	0.91	56.6	#111.2	F	1.11	105.7	#129.3
	<b>Overall</b>	<b>C</b>	<b>0.80</b>	<b>52.6</b>	-	<b>F</b>	<b>1.01</b>	<b>58.7</b>	-
<b>Cyrville Road at Cummings Avenue/Labelle Street Signalized</b>	EBL	A	0.07	7.9	4.3	A	0.05	10.7	3.2
	EBT	A	0.28	8.7	29.4	A	0.19	6.5	13.6
	WBL	A	0.25	14.9	25.0	A	0.16	15.8	18.1
	WBT	C	0.72	22.8	#137.1	D	0.85	32.6	#164.7
	NBL	A	0.02	25.8	3.8	A	0.07	22.7	5.5
	NBT	A	0.16	14.5	10.4	A	0.29	13.4	22.6
	SBL	D	0.84	70.5	#52.2	A	0.30	23.9	20.5
	SBT	A	0.21	20.8	16.4	D	0.82	35.8	#152.6
<b>Overall</b>	<b>C</b>	<b>0.72</b>	<b>23.7</b>	-	<b>D</b>	<b>0.83</b>	<b>28.5</b>	-	

**Notes:** Saturation flow rate of 1800 veh/h/lane  
 Queue is measured in metres  
 Peak Hour Factor = 0.90  
 Delay = average vehicle delay in seconds  
 m = metered queue  
 # = volume for the 95<sup>th</sup> %ile cycle exceeds capacity

The intersection of Ogilvie Road at Cummings Avenue and Ogilvie Road at Aviation Parkway may experience capacity issues during the PM peak hour, however, the remaining study area intersections generally operate satisfactorily.

At the intersection of Ogilvie Road at Cyrville Road, the northbound left movement may be subject to extended queues during the PM peak hour.

The Ogilvie Road at Cummings Avenue intersection may be subject to extended queues on the southbound left-turn movement during the AM peak hour, and on the eastbound left, eastbound through, westbound left, westbound through/right, northbound through/right, and southbound left movements during the PM peak hour. The overall intersection, the eastbound through, westbound through, and southbound left movements are over theoretical capacity and may be subject to high delays during the PM peak hour, and the northbound through/right movement may be subject to high delays during the PM peak hour.

At the intersection of Ogilvie Road and Aviation Parkway during the AM peak hour, the southbound left movement is over theoretical capacity and may be subject to high delays and extended queues, and the eastbound left and

southbound through movements may exhibit extended queues. During the PM peak hour, the northbound left, southbound left, and southbound through movements, are all over theoretical capacity and may exhibit high delays and extended queues, and overall intersection is over theoretical capacity. Additionally, the westbound left and northbound through movements may exhibit extended queues during the PM peak hour. A shift of three seconds from the northbound through movement to the southbound left movement during the AM peak hour would address the capacity issues during the AM peak hour and reduce the v/c of all movements to be 1.00 or below.

The Cyrville Road at Cummings Avenue/Labelle Street intersection’s westbound through and southbound left may exhibit extended queues during the AM peak hour, and the westbound through and southbound through movements may exhibit extended queues during the PM peak hour.

### 2.2.8 Collision Analysis

Collision data have been acquired from the City of Ottawa open data website (data.ottawa.ca) for five years prior to the commencement of this TIA for the surrounding study area road network (2018-2022). The latest detailed collision data on record from the City are for a 5-year period one year earlier than the open data the data range (2017-2021). Table 3 summarizes the collision types and conditions in the study area, Figure 11 illustrates the area collisions, and Table 4 summarizes the total collisions for each of the locations analyzed. Collision data are included in Appendix D.

*Table 3: Study Area Collision Summary, 2018-2022*

		Number	%
<b>Total Collisions</b>		<b>80</b>	<b>100%</b>
<b>Classification</b>	<b>Fatality</b>	0	0%
	<b>Non-Fatal Injury</b>	20	25%
	<b>Property Damage Only</b>	60	75%
<b>Initial Impact Type</b>	<b>Angle</b>	19	24%
	<b>Rear end</b>	21	26%
	<b>Sideswipe</b>	11	14%
	<b>Turning Movement</b>	23	29%
	<b>SMV Other</b>	5	6%
	<b>Other</b>	1	1%
<b>Road Surface Condition</b>	<b>Dry</b>	51	64%
	<b>Wet</b>	13	16%
	<b>Loose Snow</b>	3	4%
	<b>Slush</b>	3	4%
	<b>Packed Snow</b>	5	6%
	<b>Ice</b>	5	6%
<b>Pedestrian Involved</b>		3	4%
<b>Cyclists Involved</b>		5	6%

Figure 11: Study Area Collision Records, 2018-2022

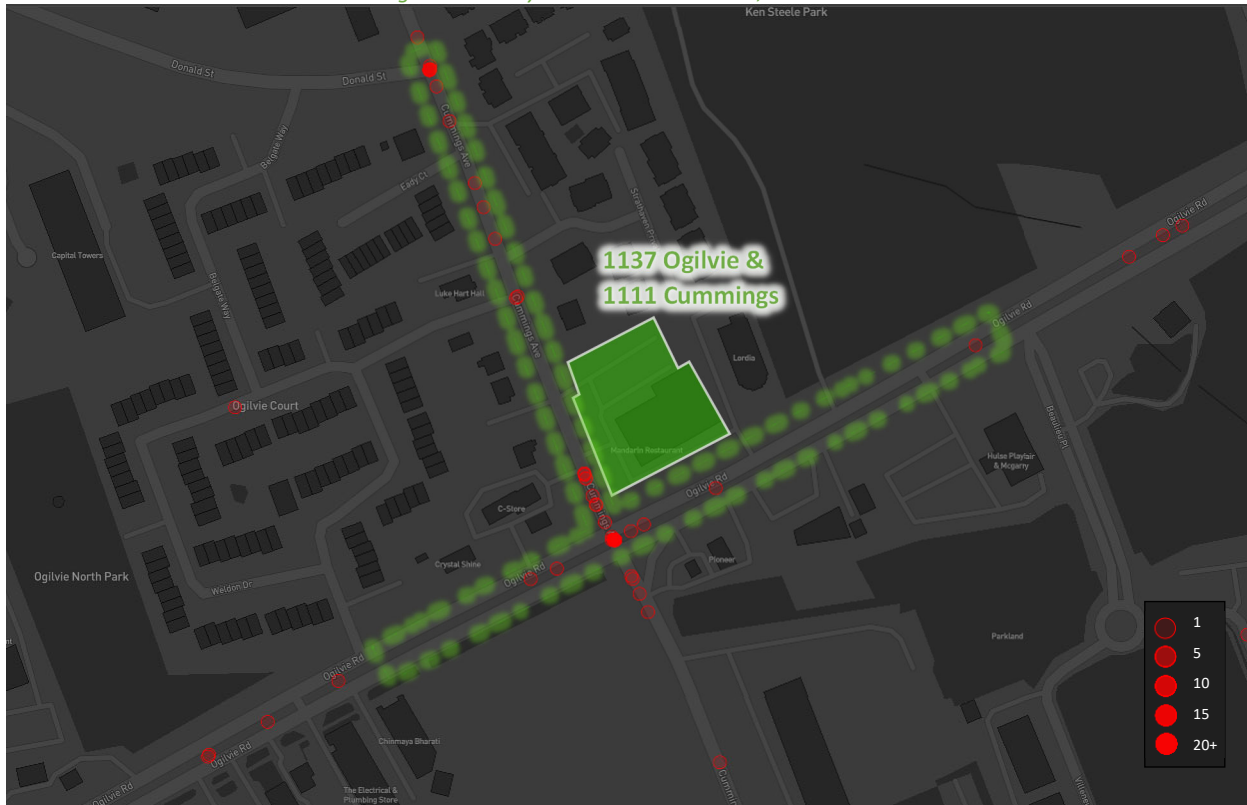


Table 4: Summary of Collision Locations, 2018-2022

Intersections / Segments	Number	%
<b>Intersections / Segments</b>	<b>80</b>	<b>100%</b>
<b>Ogilvie Rd at Cummings Ave</b>	47	59%
<b>Donald St at Cummings Ave</b>	13	16%
<b>Cummings Ave between Weldon Dr and Ogilvie Rd</b>	10	13%
<b>Ogilvie Rd between Cummings Ave and Beaulieu Pl</b>	4	5%
<b>Cummings Ave between Donald St and Eady Crt</b>	3	4%
<b>Ogilvie Rd between Murdock Gt and Cummings Ave</b>	2	3%
<b>Cummings Ave between Eady Crt and Strathaven Priv</b>	1	1%

Within the study area, three pedestrian collisions and five cyclist collisions were noted between 2018-2022. Three cyclist collisions occurred at the intersection of Ogilvie Road at Cummings Avenue, and one cyclist collision each at the segment of Cummings Avenue between Ogilvie Road and Weldon Drive and of Ogilvie Road between Beaulieu Place Cummings Avenue. Three pedestrian collisions occurred at the intersection of Donald Street at Cummings Avenue. The pedestrian and cyclist collisions at Ogilvie Road at Cummings Avenue, Donald Street at Cummings Avenue, and Cummings Avenue between Ogilvie Road and Weldon Drive will be further discussed in detailed collision reviews for each location below. The cyclist collision, which took place on Ogilvie Road between Beaulieu Place and Cummings Avenue, was an angled collision that occurred in 2018 during dark and dry conditions. No further collision review is required at this location as part of this study.

Table 5, Table 6, and Table 7 summarize the collision types and conditions for the intersections of Ogilvie Road at Cummings Avenue and Ogilvie Road at Donald Street, and the segment of Cummings Avenue between Weldon Drive and Ogilvie Road, respectively.



Table 5: Ogilvie Road at Cummings Avenue Collision Summary

		Number	%
<b>Total Collisions</b>		<b>47</b>	<b>100%</b>
<b>Classification</b>	<b>Fatality</b>	0	0%
	<b>Non-Fatal Injury</b>	10	21%
	<b>Property Damage Only</b>	37	79%
<b>Initial Impact Type</b>	<b>Angle</b>	6	13%
	<b>Rear end</b>	16	34%
	<b>Sideswipe</b>	8	17%
	<b>Turning Movement</b>	16	34%
	<b>Other</b>	1	2%
<b>Road Surface Condition</b>	<b>Dry</b>	31	66%
	<b>Wet</b>	6	13%
	<b>Loose Snow</b>	3	6%
	<b>Packed Snow</b>	4	9%
	<b>Ice</b>	3	6%
<b>Pedestrian Involved</b>		0	0%
<b>Cyclists Involved</b>		3	6%

The Ogilvie Road at Cummings Avenue intersection had a total of 47 collisions during the 2018-2022 time period, with 37 involving property damage only and the remaining ten having non-fatal injuries. The collision types are most represented by rear end and turning movement with 16 collisions each, sideswipe with eight, angle with six, and other with one. Rear end collisions and sideswipe collisions are typically associated with congestion. Weather conditions are not considered to affect collisions at this location.

From the 2017-2021 detailed data, turning movement and angle collisions were observed on all approaches at the intersection. A high proportion of the collisions involving eastbound and southbound vehicles were associated with the left-turn on these approaches or the U-turn on the eastbound approach, where eastbound left-turning vehicles were typically in conflict with westbound through vehicles, and southbound left-turning vehicles were typically in conflict with northbound through or right-turning vehicles. The frequency of left turn collisions may be indicative of drivers pushing gaps in the traffic stream in congested conditions, especially given these collisions cluster around the AM, PM, and mid-day peaks. All sideswipe collisions involved lane changes on the east and west legs. No patterns have been observed for the remaining collision types. Although the 2018-2022 collision data included three cyclist collisions, a more detailed review of the 2017-2021 data included four cyclist collisions at the intersection of Ogilvie Road at Cummings Avenue. Collisions involving cyclist from these data occurred in daylight and in clear conditions and were the exclusive result of westbound right-turning motorists in conflict with cyclists making the westbound through movement.

The City’s Cycling Safety Review of High-Volume Intersections (March 2020) completed a review of this intersection for pedestrian and cycling-related observations and movements. This report suggests improvements such as the removal of the northbound right-turn channel, the addition of a westbound right-turn lane, and signal phasing changes. Ultimately a protected intersection configuration was suggested to help address a variety of collisions noted at Ogilvie Road at Cummings Avenue intersection. These improvements are understood to be planned for implementation by 2027 as part of the Cumming Cycling (Donald to Cyrville) active transportation project. No interim mitigations on Cummings Avenue are required, and no interim changes to the arterial Ogilvie Road are identified or recommended.

Table 6: Donald Street at Cummings Avenue Collision Summary

		Number	%
<b>Total Collisions</b>		<b>13</b>	<b>100%</b>
<b>Classification</b>	<b>Fatality</b>	0	0%
	<b>Non-Fatal Injury</b>	4	31%
	<b>Property Damage Only</b>	9	69%
<b>Initial Impact Type</b>	<b>Angle</b>	2	15%
	<b>Rear end</b>	3	23%
	<b>Sideswipe</b>	1	8%
	<b>Turning Movement</b>	3	23%
	<b>SMV Other</b>	4	31%
<b>Road Surface Condition</b>	<b>Dry</b>	6	46%
	<b>Wet</b>	4	31%
	<b>Slush</b>	1	8%
	<b>Ice</b>	2	15%
<b>Pedestrian Involved</b>		3	23%
<b>Cyclists Involved</b>		0	0%

The Donald Street at Cummings Avenue intersection had a total of 13 collisions during the 2018-2022 time period, with nine involving property damage only and the remaining four having non-fatal injuries. The collision types are most represented by SMV other with four collisions, which included the three pedestrian collisions, followed by rear end and turning movement with three collisions each, two angle collisions, and one sideswipe collisions.

From the 2017-2021 detailed data, two pedestrian collisions were noted, both in dark conditions. One collision occurred in snow as a driver was making an eastbound right turn and one occurred in rain as a driver was making a northbound left turn. This intersection is included in the planned active transportation infrastructure project entitled Cummings Cycling (Donald to Cyrville) which will be implementing a forthcoming design for upgrades along the Cummings Avenue corridor, including at its intersection with Donald Street. No interim mitigations are required, and no further review of collisions at this location is required as part of this study.

Table 7: Cummings Avenue between Weldon Drive and Ogilvie Road Collision Summary

		Number	%
<b>Total Collisions</b>		<b>10</b>	<b>100%</b>
<b>Classification</b>	<b>Fatality</b>	0	0%
	<b>Non-Fatal Injury</b>	1	10%
	<b>Property Damage Only</b>	9	90%
<b>Initial Impact Type</b>	<b>Angle</b>	8	80%
	<b>Turning Movement</b>	2	20%
<b>Road Surface Condition</b>	<b>Dry</b>	7	70%
	<b>Wet</b>	2	20%
	<b>Packed Snow</b>	1	10%
<b>Pedestrian Involved</b>		0	0%
<b>Cyclists Involved</b>		1	10%

The segment of Cummings Avenue between Weldon Drive and Ogilvie Road had a total of ten collisions during the 2018-2022 time period, with nine involving property damage only and the remaining one having non-fatal injuries. The collision types are most represented by angle with eight collisions, followed by two turning movement collisions.

From the 2017-2021 detailed data, all angle collisions involved eastbound vehicles, 88% of which were turning left, in conflict with northbound and southbound through vehicles in equal proportions. Based on the collisions’

coordinates, these appear to be situated in proximity to the Ogilvie Road intersection and related to the gas station on the corner. As part of the concept plan for the intersection of Cummings Avenue at Ogilvie Road from the Cycling Safety Review of High-Volume Intersections, a median is proposed on the southbound approach of Cummings Avenue, and therefore the eastbound left-turn from the gas station will be physical restricted in the future conditions.

The collision involving a cyclist occurred during daylight hours as a cyclist made an eastbound left-turn movement while an automobile was making the northbound through movement. This collision is related to the gas station and would also be physically restricted in the future conditions. No further review of collisions at this location is required as part of this study.

## 2.3 Planned Conditions

### 2.3.1 Changes to the Area Transportation Network

#### 2.3.1.1 *Transportation Master Plan (2025)*

The recently approved Transportation Master Plan includes a Capital Infrastructure Plan identifying transportation investments to support the forecasted growth and strategic connectivity and livability targets for the City. It also identifies committed projects, and a subset of priority projects that are expected to be implemented by 2046 based on current affordability assumptions. Area projects anticipated to impact travel in the study area that are included within the Capital Infrastructure Plan are:

- Active Transportation Network
  - Pedestrian Projects with Prioritization
    - (No Study Area Projects)
  - Cycling Projects with Prioritization
    - St-Laurent Boulevard Cycling Feasibility Study – Donald Street to Montreal Road
    - Cummings Avenue Cycling – Donald Street to Cyrville Road
    - Aviation Pathway Connections – Community connections at Thibault Street and Gardenvale Road, including a feasibility review of a crossing of Aviation Parkway near La Cite Private
- Transit Network
  - Priority
    - St-Laurent Continuous Transit Lanes – South of St-Laurent Station
    - St-Laurent Transit Priority Corridor – North of St-Laurent Station
    - Ogilvie Road Transit Priority Corridor
  - Needs-Based
    - St-Laurent BRT – South of St-Laurent Station
- Road Network
  - Priority
    - (No Study Area Projects)
  - Needs-Based
    - (No Study Area Projects)

#### 2.3.1.2 *Cummings Cycling (Donald to Cyrville)*

The City's Cycling Safety Review of High-Volume Intersections (2020) included a review of Ogilvie Road at Cummings Avenue intersection for pedestrian and cycling-related observations and movements. The study



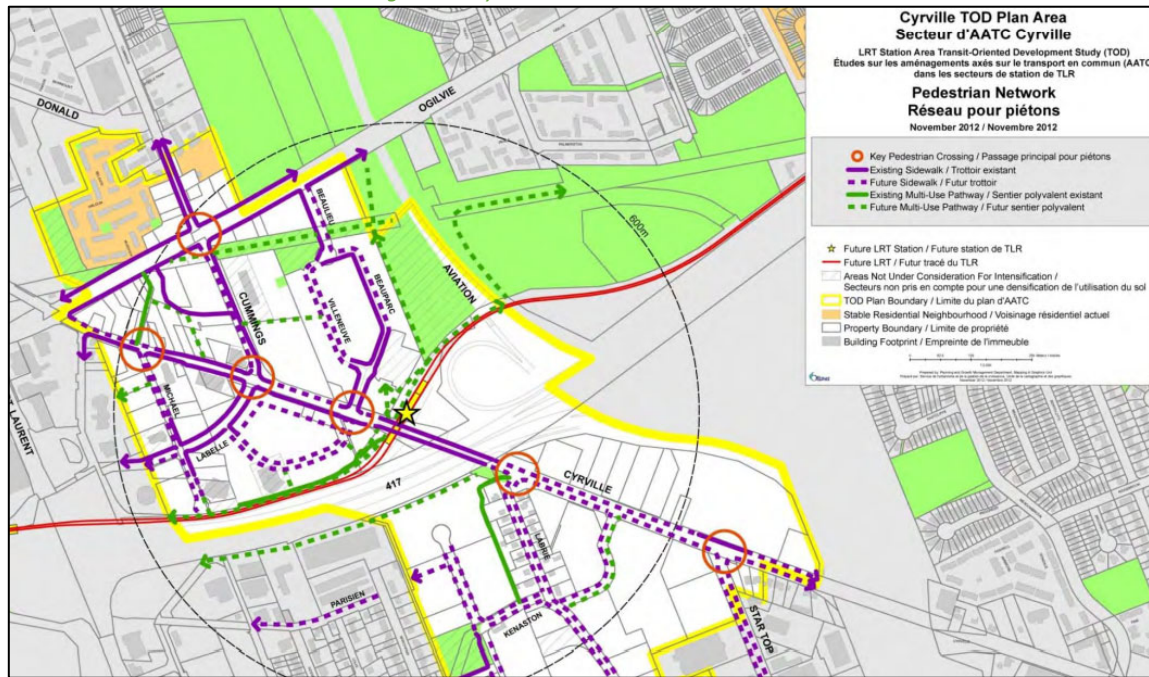
recommended a variety of improvements, such as the removal of the northbound right-turn channel, the addition of a westbound right-turn lane, signal phasing changes, and ultimately a protected intersection configuration.

This work has been included in a planned active transportation infrastructure project entitled Cummings Cycling (Donald to Cyrville). The scope of work is the evaluation of dedicated cycling facilities on Cummings Avenue, either as cycletracks or bike lanes. The scope of work at the intersection of Cummings Avenue at Ogilvie Road is a fully protected intersection, tying into existing bike lanes on Ogilvie Road east and west of the intersection. Construction of this project has been assumed to commence in 2027 and to be completed by 2029.

### 2.3.1.3 Cyrville TOD Plan

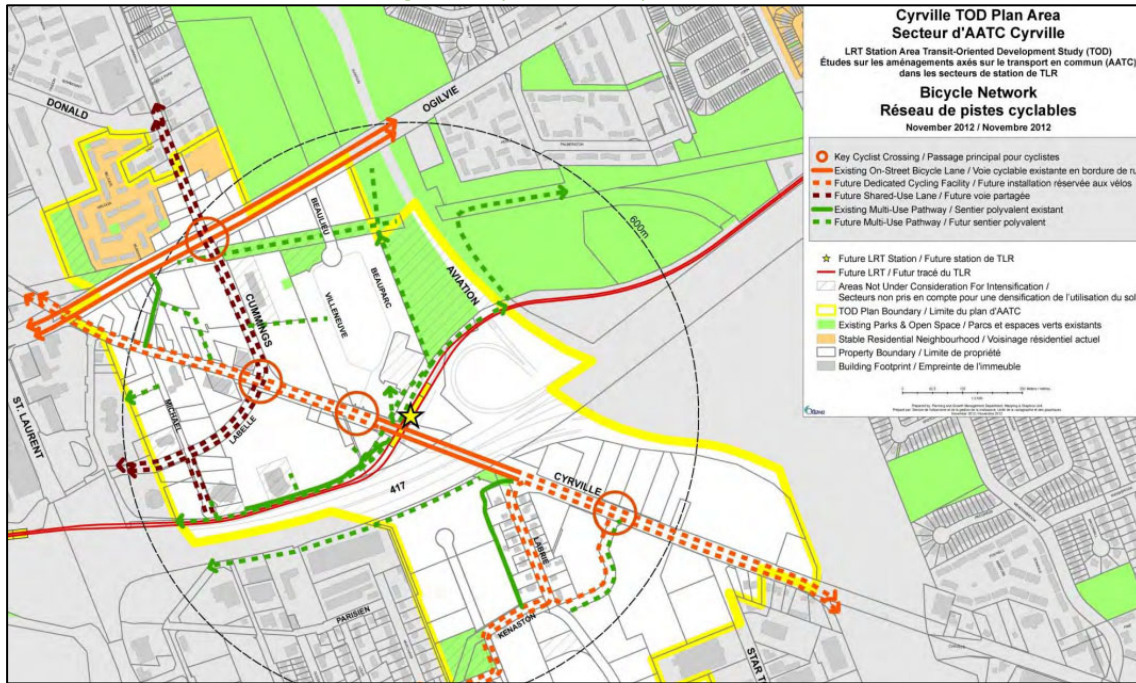
The Cyrville TOD plan outlines a future sidewalk on the west side of Cummings Avenue south of Ogilvie Road and future shared-use lanes along Cummings Avenue. It is noted that the sidewalk on the west side of Cummings Avenue south of Ogilvie Road will be implemented as part of roadway modifications for the 1098 Ogilvie Road / 1178 Cummings Avenue development. Figure 12 and Figure 13 illustrate the Cyrville pedestrian and cycling TOD plans, respectively.

Figure 12: Cyrville TOD Pedestrian Network



Source: <https://ottawa.ca/en/transit-oriented-development-tod-plans> Accessed: October 24, 2023

Figure 13: Cyrville TOD Bicycle Network



Source: <https://ottawa.ca/en/transit-oriented-development-tod-plans> Accessed: October 24, 2023

#### 2.3.1.4 Coventry Road Widening EA

The study of Coventry Road widening between St. Laurent Shopping Centre West Access and Belfast Road is planned and is understood to be commencing shortly. The EA study will offer an opportunity to improve the public realm and enhance connectivity for pedestrians and cyclists. The project timeline is unknown, and it is assumed that it will be completed beyond the study horizon years.

#### 2.3.1.5 St-Laurent Boulevard Transit Priority Corridor EA

The study of the St-Laurent Boulevard Transit Priority Corridor, between Hemlock Road and Innes Road/Industrial Avenue, is ongoing. The EA study will explore options to enhance transit service efficiency and the travel environment for all modes. Since the timing of implementation is currently unknown, it is assumed that it will occur beyond the study horizon years.

### 2.3.2 Other Study Area Developments

#### 1098 Ogilvie Road, 1178 Cummings Avenue

The proposed development application includes a site plan for a two-phase development, comprising three residential towers and one hotel for 850 residential dwelling units and 175 hotel rooms. The development is expected to generate 148 new AM peak hour two-way auto trips and 130 new PM peak hour two-way auto trips. The development is currently under construction. (Parsons, 2020)

#### 1298 Ogilvie Road

The proposed development application includes a site plan for seven townhome buildings comprising 78 residential units. The development is expected to generate 39 new AM peak hour two-way auto trips and 40 new PM peak hour two-way auto trips. The trip generation trigger was not met, and negligible impact is anticipated on road network. The build-out horizon is assumed to be 2025. (Parsons, 2018)

*1155 Joseph Cyr Street, 1082 Cyrville Road*

The proposed development application includes a zoning amendment and site plan for the construction of a six-storey mixed-use building comprising 116 residential dwelling units and 1,425 ft<sup>2</sup> of ground floor retail. The development is currently under construction. The development is expected to generate eight new AM and nine new PM two-way peak-hour auto trips. (CGH, 2020)

*1209 St Laurent Boulevard, 1200 Lemieux Street*

The proposed development includes a site plan application to construct two 30-storey residential buildings including 644 units to be built by 2026. The development is expected to generate 35 new AM peak hour two-way auto trips and 38 new PM peak hour two-way auto trips. (CGH, 2022)

*1125 - 1149 Cyrville Road*

The proposed development application includes a site plan to construct two residential buildings with a total of 354 units. The development is expected to generate 22 new AM and 21 new PM two-way peak-hour auto trips. The development is currently under construction. (Stantec, 2021)

*1184-1196 Cummings Avenue*

The proposed development application includes a zoning amendment and site plan for redeveloping existing residential units into a mid-rise apartment building totaling 188 units. The development is anticipated to be built out by 2026 and to generate 17 new AM and 17 new PM two-way auto trips. (CGH, 2023)

*1151 Ogilvie Road*

The proposed development application includes a zoning amendment for an overall site including the parcel that is the subject of this study. Phase 2 within the 1151 Ogilvie Road lands includes a 30-storey building comprising 410 units and 2481 sq ft of ground floor commercial space. The second phase of development is anticipated to be built out by 2029 and to generate 41 new AM and 47 new PM two-way auto trips. (CGH, 2025)

### 3 Study Area and Time Periods

#### 3.1 Study Area

The study area will include the intersections of:

- Cyrville Road at:
  - Ogilvie Road
  - Labelle Street/Cummings Avenue
- Ogilvie Road at:
  - Cummings Avenue
  - Aviation Parkway
- Cummings Avenue at:
  - Donald Street
  - Site Access (future conditions)

The boundary roads will be Cummings Avenue and Ogilvie Road and no screenlines are present within proximity to the site.

#### 3.2 Time Periods

As the proposed development is composed primarily of residential units the AM and PM peak hours will be examined.

### 3.3 Horizon Years

The Phase 1 build-out year is anticipated to be 2027. As a result, the build out plus five years horizon year is 2032.

## 4 Development-Generated Travel Demand

### 4.1 Mode Shares

Examining the mode shares recommended in the TRANS Trip Generation Manual (2020) for the subject district, derived from the most recent National Capital Region Origin-Destination survey (OD Survey), the existing average district mode shares by land use for Ottawa East have been summarized in Table 8.

*Table 8: TRANS Trip Generation Manual Recommended Mode Shares – Ottawa East*

Travel Mode	Multi-Unit (High-Rise)		Commercial Generator	
	AM	PM	AM	PM
<b>Auto Driver</b>	40%	40%	57%	55%
<b>Auto Passenger</b>	7%	14%	10%	18%
<b>Transit</b>	38%	28%	15%	11%
<b>Cycling</b>	2%	3%	1%	1%
<b>Walking</b>	13%	15%	17%	15%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

Being within the Cyrville TOD Plan area, which is approximately 700-metre walking distance from Cyrville Station, a higher transit mode is considered achievable at this location. A 15% shift to the transit mode from the auto mode is proposed for residential land use, and a 5% shift to the transit mode from the auto mode is proposed for commercial land use. The proposed modified mode share targets are summarized in Table 9.

*Table 9: Proposed Development Mode Shares*

Travel Mode	Multi-Unit (High-Rise)		Commercial Generator	
	AM	PM	AM	PM
<b>Auto Driver</b>	25%	25%	52%	50%
<b>Auto Passenger</b>	7%	14%	10%	18%
<b>Transit</b>	53%	43%	20%	16%
<b>Cycling</b>	2%	3%	1%	1%
<b>Walking</b>	13%	15%	17%	15%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

### 4.2 Trip Generation

This TIA has been prepared using the vehicle and person trip rates for the residential dwellings using the TRANS Trip Generation Manual (2020) and the vehicle trip rates and derived person trip rates for commercial component from the ITE Trip Generation Manual 10th Edition (2017) using the City-prescribed conversion factor of 1.28. Table 10 summarizes the person trip rates for the proposed residential land uses for each peak period and the person trip rates for the non-residential land uses by peak hour.

*Table 10: Trip Generation Person Trip Rates*

Land Use	Land Use Code	Peak Period	Vehicle Trip Rate	Person Trip Rates
<b>Multi-Unit High-Rise</b>	221 & 222 (TRANS)	AM	-	0.80
		PM	-	0.90



Land Use	Land Use Code	Peak Hour	Vehicle Trip Rate	Person Trip Rates
Strip Retail Plaza (<40k sq. ft.)	822 (ITE)	AM	2.36	3.02
		PM	6.59	8.44

Using the above person trip rates, the total person trip generation has been estimated. Table 11 summarizes the total person trip generation for the residential land use and for the non-residential land use.

Table 11: Person Trip Generation by Peak Period/Hour

Land Use	Units	AM Peak Period			PM Peak Period		
		In	Out	Total	In	Out	Total
Multi-Unit (High-Rise)	271	67	150	217	142	102	244

Land Use	GFA	AM Peak Hour			PM Peak Hour		
		In	Out	Total	In	Out	Total
Strip Retail Plaza (<40k sq. ft.)	912 sq. ft	2	1	3	4	4	8

Internal capture rates from the ITE Trip Generation Handbook 3<sup>rd</sup> Edition have been assigned to the development’s retail component for mixed-use developments. The rates summarized in Table 12 represent the percentage of trips to/from the retail use based on the residential component.

Table 12: Internal Capture Rates

Land Use	AM		PM	
	In	Out	In	Out
Residential to/from Shopping Centre	17%	14%	10%	26%

Typical pass-by reductions applied to the retail land use’s trip generation are 40%, which is derived from the recommended value presented in the ITE Trip Generation Manual 11th Edition (2021) for the most similar land use with a recommended rate, “Retail (40k – 150k sq. ft.)” The subject development is one quadrant of an intersection with an arterial as the major roadway and with a major collector/arterial as the minor roadway. Given this proximity, and that the site access is onto the lower classification roadway, the application of the pass-by percentage to Cummings Avenue would not fully capture the expected pass-by component of the site trips. Due to this context, the analysis will forgo the application of diverted trips and will apply the 40% pass-by from both Ogilvie Road at Cummings Avenue.

Using the above mode share targets for the area served by higher order transit, the internal capture and pass-by rates, and the person trip rates, the person trips by mode have been projected. Trip generation by peak hour has been forecasted using the prescribed peak period conversion factors presented in the TRANS Trip Generation Manual (2020) for the residential component. Table 13 summarizes the trip generation by mode and peak hour.

Table 13: Trip Generation by Mode

Travel Mode		AM Peak Hour				PM Peak Hour			
		Mode Share	In	Out	Total	Mode Share	In	Out	Total
Multi-Unit (High-Rise)	Auto Driver	25%	8	18	26	25%	16	11	27
	Auto Passenger	7%	2	5	7	14%	9	6	15
	Transit	53%	20	44	63	43%	29	21	49
	Cycling	2%	1	2	2	3%	2	1	3
	Walking	13%	5	12	16	15%	11	8	19
	<b>Total</b>	<b>100%</b>	<b>36</b>	<b>81</b>	<b>114</b>	<b>100%</b>	<b>67</b>	<b>47</b>	<b>113</b>

Travel Mode		AM Peak Hour				PM Peak Hour			
		Mode Share	In	Out	Total	Mode Share	In	Out	Total
Strip Retail Plaza (<40k)	Auto Driver	52%	1	1	2	50%	1	1	2
	Auto Passenger	10%	0	0	0	18%	1	1	2
	Transit	20%	0	0	0	16%	1	0	1
	Cycling	1%	0	0	0	1%	0	0	0
	Walking	17%	0	0	0	15%	1	0	1
	<b>Total</b>	<b>100%</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>100%</b>	<b>4</b>	<b>2</b>	<b>6</b>
	<i>Internal Capture</i>	<i>varies</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>varies</i>	<i>0</i>	<i>-1</i>	<i>-1</i>
	<i>Pass-by</i>	<i>40%</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>40%</i>	<i>-1</i>	<i>-1</i>	<i>-2</i>
Total	Auto Driver	-	9	19	28	-	17	12	29
	Auto Passenger	-	2	5	7	-	10	7	17
	Transit	-	20	44	63	-	30	21	50
	Cycling	-	1	2	2	-	2	1	3
	Walking	-	5	12	16	-	12	8	20
	<b>Total</b>	<b>-</b>	<b>37</b>	<b>82</b>	<b>116</b>	<b>-</b>	<b>71</b>	<b>49</b>	<b>119</b>
	<i>Internal Capture</i>	<i>varies</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>varies</i>	<i>0</i>	<i>-1</i>	<i>-1</i>
	<i>Pass-by</i>	<i>40%</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>40%</i>	<i>-1</i>	<i>-1</i>	<i>-2</i>

As shown above, a total of 28 AM and 29 PM new peak hour two-way vehicle trips are projected as a result of the proposed development.

### 4.3 Trip Distribution

To understand the travel patterns of the subject development, the OD Survey has been reviewed to determine the travel for the residential component, and these patterns were applied based on the build-out of Ottawa East. Table 14 below summarizes the distributions.

Table 14: OD Survey Distribution – Ottawa East

To/From	Residential % of Trips
North	15%
South	20%
East	15%
West	50%
<b>Total</b>	<b>100%</b>

### 4.4 Trip Assignment

Using the distribution outlined above, turning movement splits, and access to major transportation infrastructure, the trips generated by the site have been assigned to the study area road network. Table 15 summarizes the proportional assignment to the study area roadways. Figure 14 illustrates the new site generated volumes, and Figure 15 illustrates the pass-by volumes.

Table 15: Trip Assignment

To/From	Via
North	10% Donald St (N), 5% Cummings Ave (N)
South	5% Aviation Pkwy (S), 5% Cummings Ave (S), 10% Ogilvie Rd (W)
East	10% Ogilvie Rd (E), 5% Cyrville Rd (E)
West	50% Ogilvie Rd (W)
<b>Total</b>	<b>100%</b>

Figure 14: New Site Generated Auto Volumes

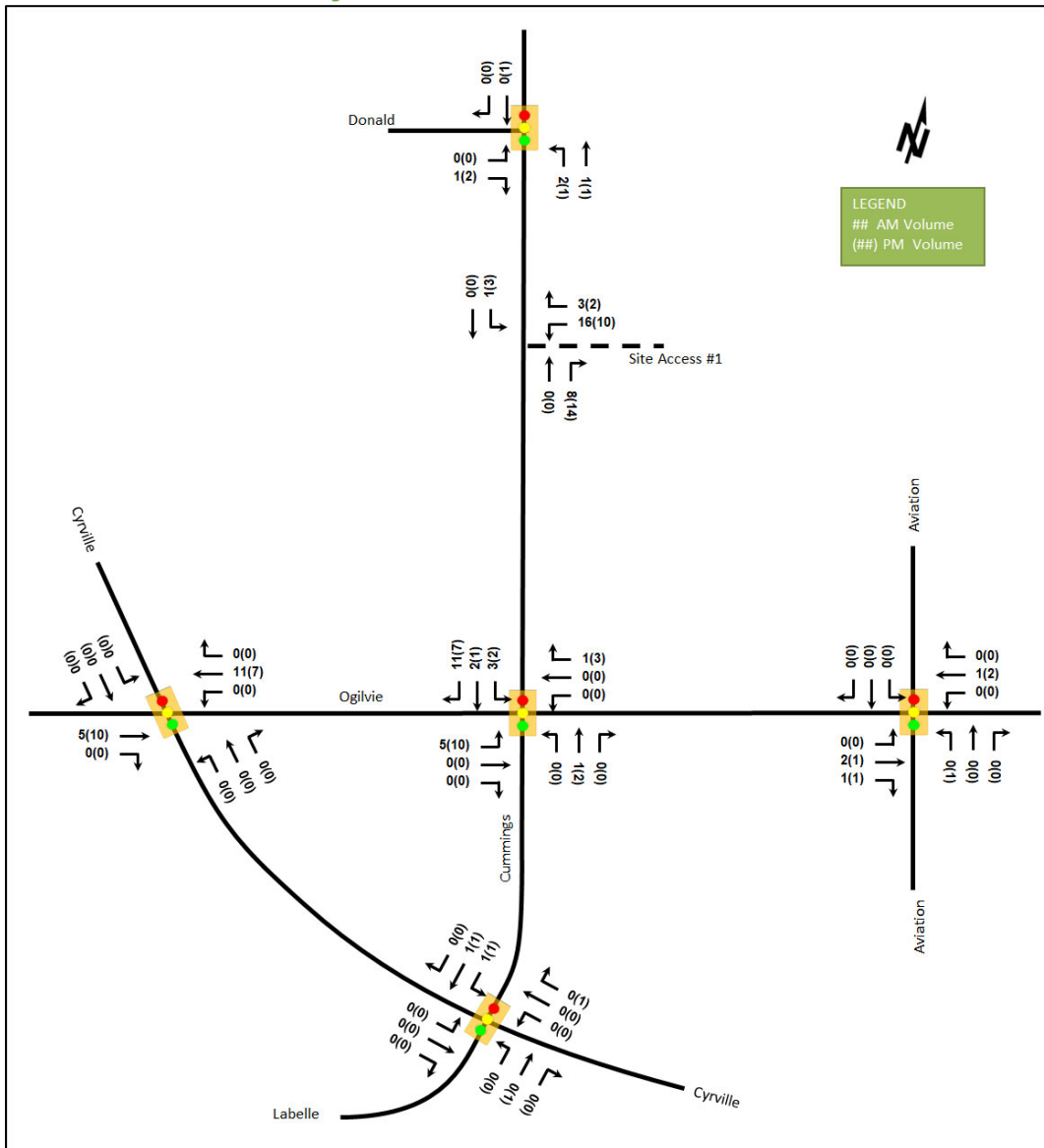
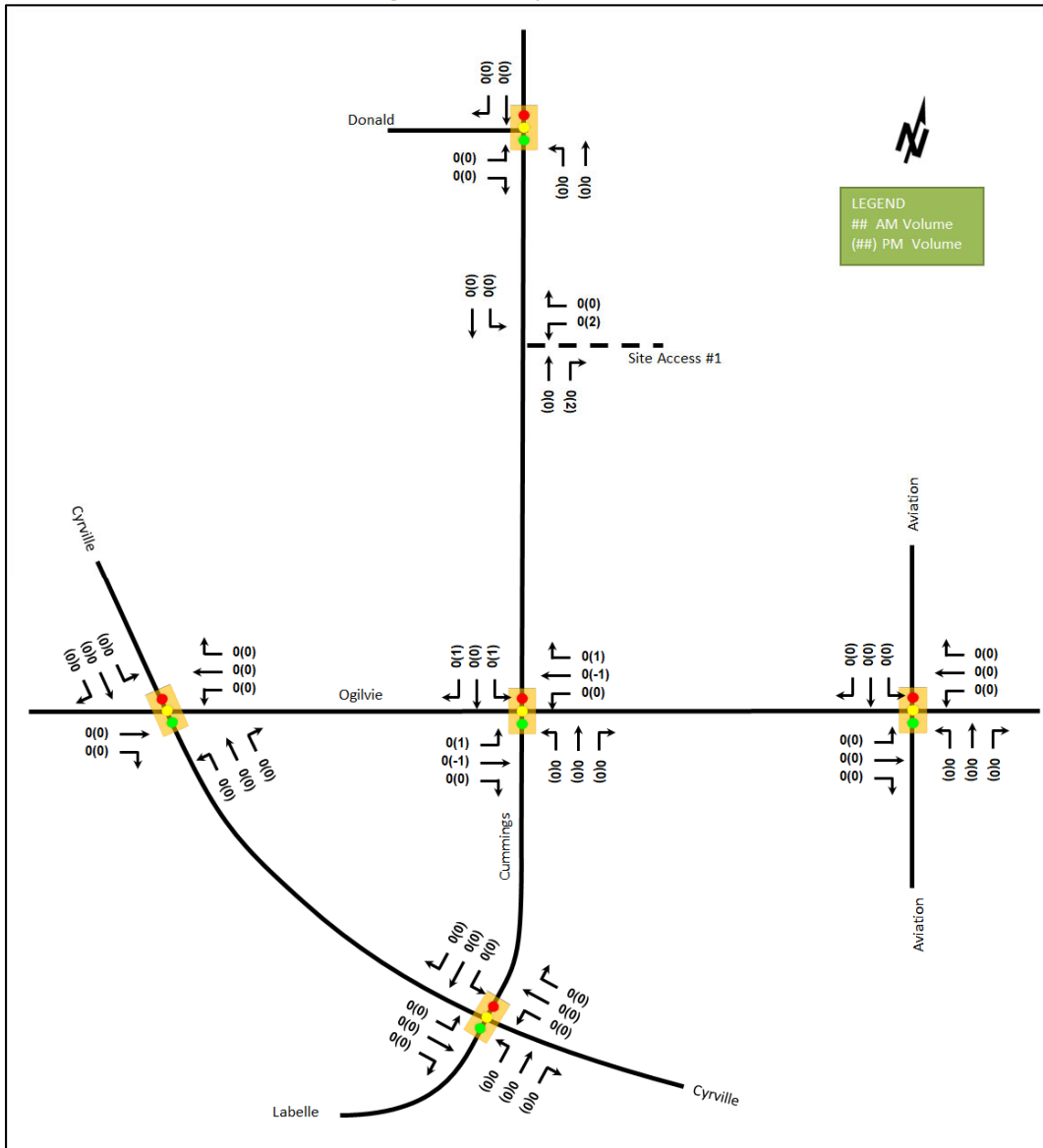


Figure 15: Pass-by Auto Volumes



### 4.5 Trip Reductions

The existing supermarket is approximately 6,390 sq. ft, and the existing restaurant is approximately 8,855 sq. ft on the 1137 Ogilvie Road parcel. Both are closed during the AM peak hour. Using the ITE trip generation rates for the land use of Supermarket (ITE 850), High-Turnover (Sit-Down) Restaurant (ITE 932), a pass-by rate of 24% for supermarket, a pass-by rate of 43% for restaurant, and commercial generator mode shares for Ottawa East, the estimated trip generation of the existing site during the PM peak hour is 63 two-way primary vehicle trips. The trip assignment of the estimated reduced volumes, based on the commercial land use and the build-out of Ottawa East, is illustrated in Figure 16. The existing property has additional accesses beyond the one proposed as part of the redevelopment. Accounting for this existing access configuration, and the estimated pass-by adjustment consistent with the proportional assignment used for the proposed development, volumes for the existing land use on the network are illustrated in Figure 17. Table 16 compares the estimated existing primary auto trips and forecasted site-generated primary auto trips.



Figure 16: Estimated Existing Trip Reductions

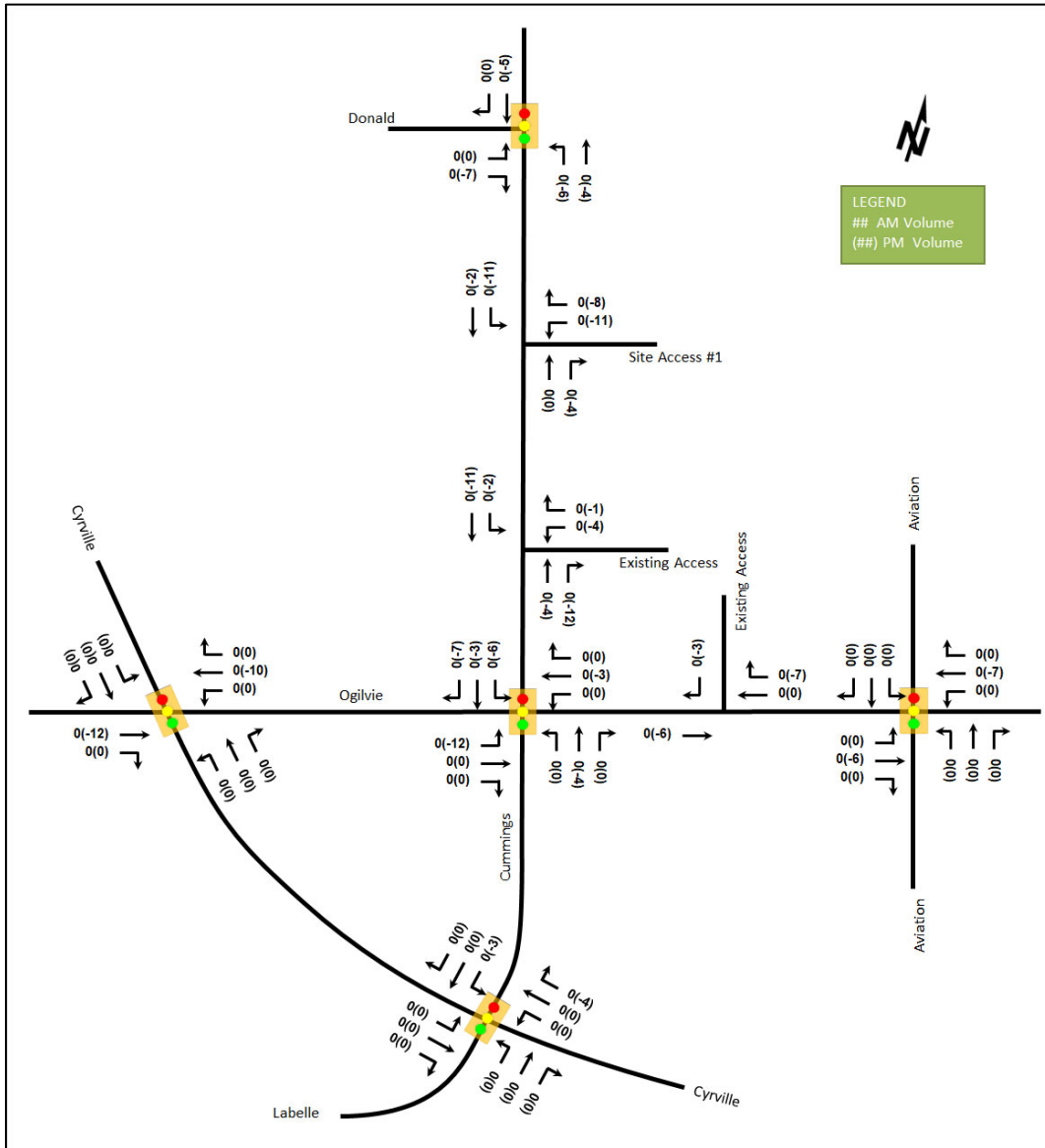


Figure 17: Estimated Existing Pass-By Network Adjustment

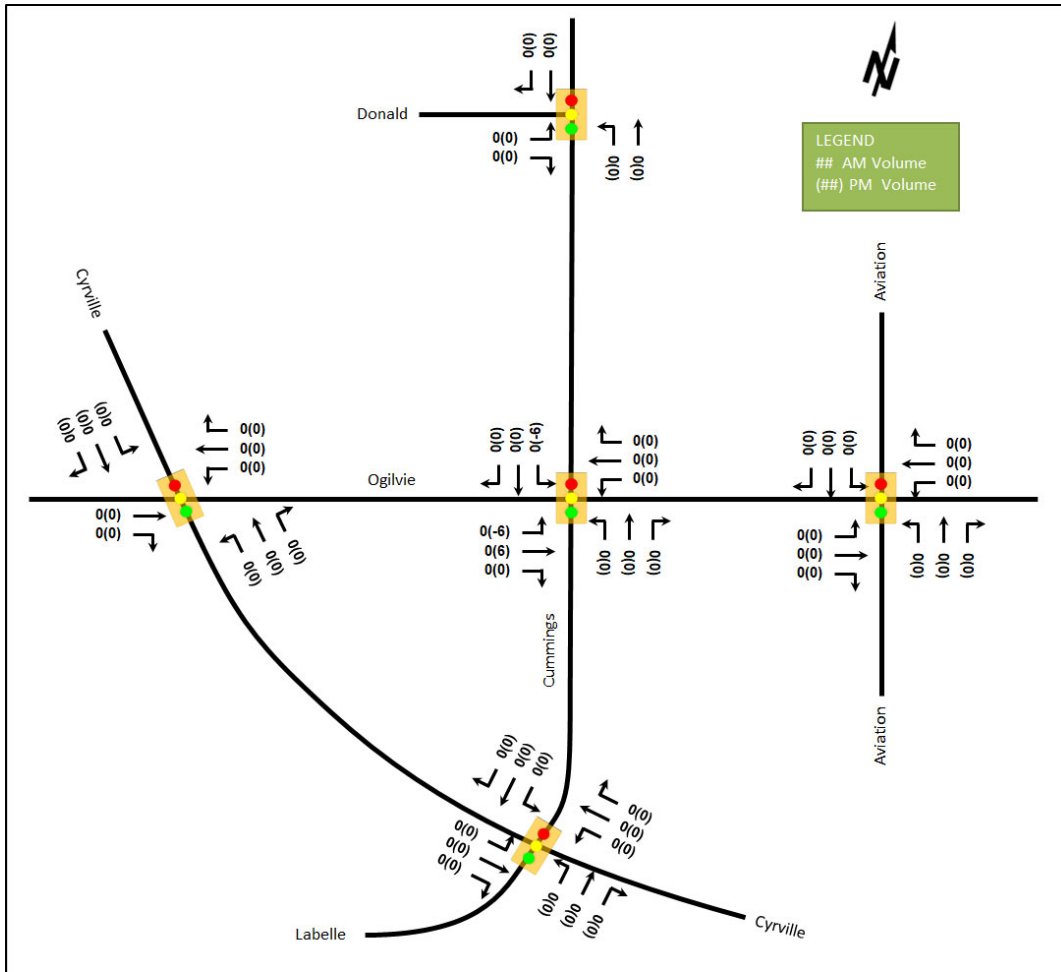
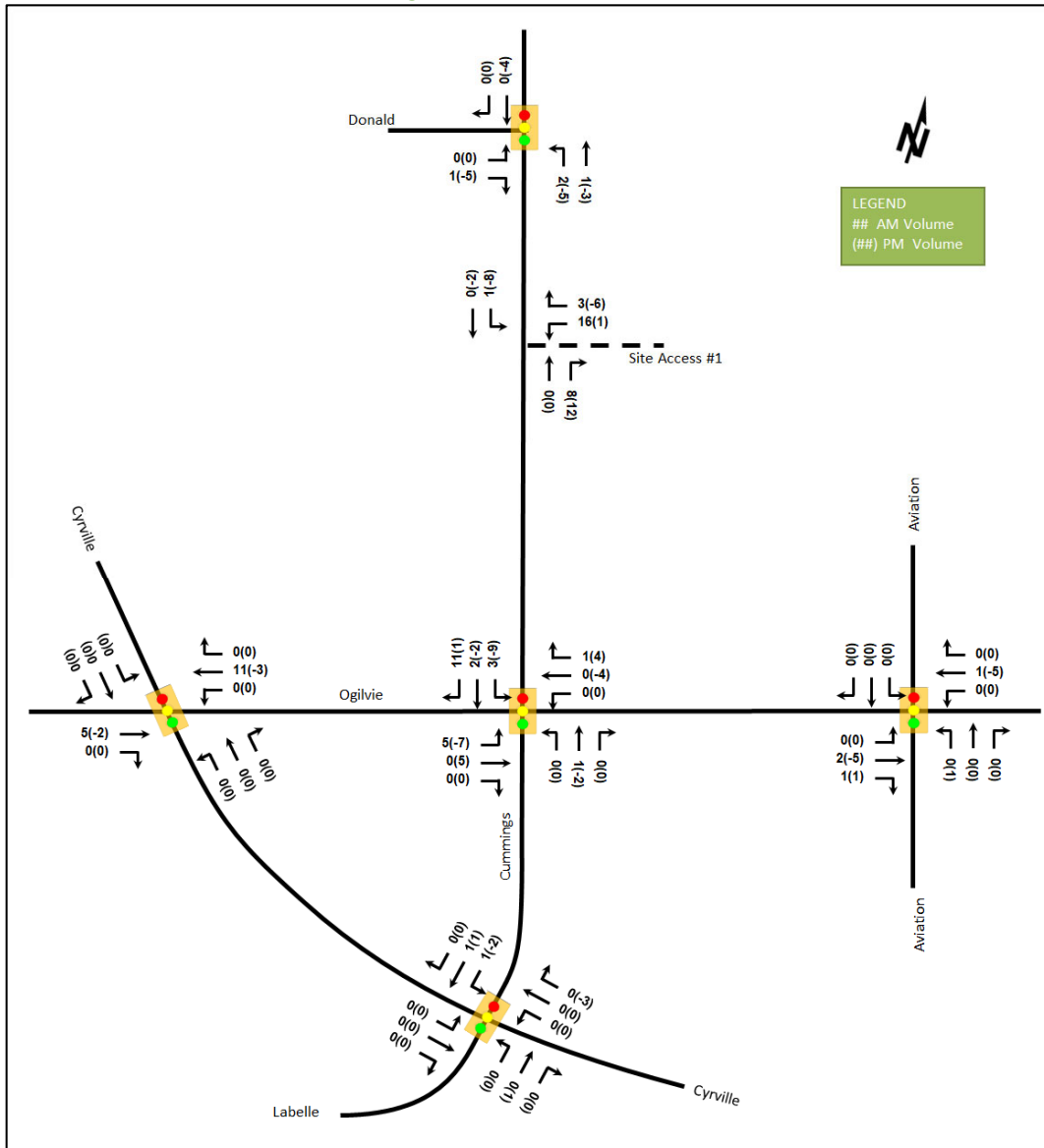


Table 16: Estimated Existing Primary Auto Trips vs Forecasted Primary Auto Trips

Scenario	AM Peak Hour				PM Peak Hour			
	Mode Share	In	Out	Total	Mode Share	In	Out	Total
Existing	57%	0	0	0	55%	35	28	63
Proposed	Varies	9	19	28	Varies	17	12	29
Difference	-	+9	+19	+28	-	-18	-16	-34

As shown above, the proposed redevelopment is anticipated to generate 28 additional two-way AM peak hour vehicles and 34 fewer two-way PM peak hour vehicles from the existing use. Figure 18 illustrates the net auto volumes.

Figure 18: Net Auto Volumes



## 5 Exemption Review

Table 17 summarizes the exemptions for this TIA.

Table 17: Exemption Review

Module	Element	Explanation	Exempt/Required
<b>Site Design and TDM</b>			
<b>Development Design</b>	4.1.2 Circulation and Access	Only required for site plan and zoning by-law applications	Required
	4.1.3 New Street Networks	Only required for plans of subdivision	Exempt
<b>Parking</b>	4.2.1 Parking Supply	Only required for site plan and zoning by-law applications	Required

Module	Element	Explanation	Exempt/Required
<b>Boundary Street Design</b>		All applications	Required
<b>Transportation Demand Management</b>	All Elements	Only required when the development generates more than 60 person-trips	Required
<b>Network Impact</b>			
<b>Background Network Travel Demand</b>	All Elements	Only required when one or more other Network Impact Modules are triggered when the development generates more than 75 auto or transit trips	Exempt
<b>Demand Rationalization</b>		Only required when one or more other Network Impact Modules when the development generates more than 75 auto trips	Exempt
<b>Neighbourhood Traffic Calming</b>	4.6.1 Adjacent Neighbourhoods	<p>If the development meets all of the following criteria along the route(s) site generated traffic is expected to utilize between an arterial road and the site's access:</p> <ol style="list-style-type: none"> <li>1. Access to Collector or Local;</li> <li>2. "Significant sensitive land use presence" exists, where there is at least two of the following adjacent to the subject street segment: <ul style="list-style-type: none"> <li>• School (within 250m walking distance);</li> <li>• Park;</li> <li>• Retirement / Older Adult Facility (i.e. long-term care and retirement homes);</li> <li>• Licenced Child Care Centre;</li> <li>• Community Centre; or</li> <li>• 50%, or greater, of adjacent property along the route(s) is occupied by residential lands and a minimum of 10 occupied residential units are present on the route.</li> </ul> </li> <li>3. Application is for Zoning By-Law Amendment or Draft Plan of Subdivision;</li> <li>4. At least 75 site-generated auto trips;</li> <li>5. Site Trip Infiltration is expected. Site traffic will increase peak hour vehicle volumes along the route by 50% or more.</li> </ol>	Exempt
<b>Transit</b>	4.7.1 Transit Route Capacity	Only required when the development generates more than 75 transit trips	Exempt

Module	Element	Explanation	Exempt/Required
	4.7.2 Transit Priority Requirements	Only required when the development generates more than 75 auto trips	Exempt
<b>Network Concept</b>		Only required when proposed development generates more than 200 person-trips during the peak hour in excess of equivalent volume permitted by established zoning	Exempt
<b>Intersection Design</b>	4.4.1-2/4.9.1 Intersection Control	Only required when the development generates more than 75 auto trips	Exempt
	4.4.3/4.9.2 Intersection Design	Only required when the development generates more than 75 auto trips	Exempt – Site Access Intersection Design Required

## 6 Development Design

### 6.1 Design for Sustainable Modes

The proposed development is a residential building with a small ground floor commercial component. A drop-off loop is located on the surface and vehicle parking located in two parking levels below grade. Bicycle parking is located within the parking levels accessed via ramp with a maximum 16.4% grade, and within surface racks. Elevators are additionally provided from the parking levels for cyclists’ ease of use.

Existing sidewalks are present along Cummings Avenue and Ogilvie Road, and hard surface connections to these facilities are proposed from the building entrances.

The infrastructure TDM checklist is provided in Appendix E.

### 6.2 Circulation and Access

Vehicle access is provided via a 6.7-metre-wide two-way full-movement access on Cummings Avenue. To facilitate access by loading, garbage, and fire services trucks, the southern curb radius between the access and Cummings Avenue is 6.0 metres and the northern curb radius is 5.0 metres. The access connects to the underground parking ramp, a drop-off loop, and the loading areas. Para Transpo vehicles can circulate the internal drive aisles, and board and alight passengers along the southern curb line onto the depressed unit-paver area. Garbage collection will occur in the depressed unit-paver loading area adjacent to the building, and emergency services can access the site drive aisles and make a three-point turn to egress. Turning templates are provided in Appendix F.

## 7 Parking

### 7.1 Parking Supply

The site is currently proposed to include a total of 147 vehicle parking spaces below grade for the overall site.

The Zoning By-Law requires a minimum parking provision is 130 vehicle parking spaces for residents and 26 vehicle parking spaces for visitors. Therefore, the required parking provision is 165 and the proposed parking provision is 18 spaces below this requirement.

The site is located within 600 metres of Cyrville Station and is located in the Cyrville Hub and Design Priority Area and on the Ogilvie Road Mainstreet Corridor. Considering other planning context for the site parking, it is noted that no minimum parking provision would be required for a lot across the street on Ogilvie Road at its intersection

with Cummings Avenue, and the draft Zoning By-Law proposes the elimination of parking minima in the City. Therefore, while not meeting the previously set by-law minima, the proposed parking provision is considered appropriate for the planning context. It is expected that site parking will be compliant with the rates set out by the pending rezoning for the overall parcel.

The Zoning By-Law requires a maximum vehicle parking provision for developments located within 600 metres of a rapid transit station. A maximum parking ratio of 1.5 spaces per dwelling unit for the residential component including visitor spaces is required, resulting in a total of 407 spaces for the site. Additionally, assuming a restaurant land use for the purposes of the parking evaluation, no maximum parking ratio for the commercial component is required. Therefore, the parking spaces proposed for the residential component of the development fall below the maximum permitted by the Zoning By-Law.

The site proposes a total of 283 bicycle parking spaces. Twelve of the bicycle parking spaces will be provided within surface racks. The minimum bicycle parking provision from the Zoning By-Law is 136 residential spaces and one commercial space, assuming a restaurant land use. The site is proposed to provide internal bicycle parking at one space per residential unit with additional exterior spaces for visitors and the commercial use, and meets the minimum bicycle parking provision from the Zoning By-Law.

## 8 Boundary Street Design

Table 18 summarizes the MMLOS analysis for the boundary streets of Cummings Avenue and Ogilvie Road. Given that the Cummings Cycling (Donald to Cyrville) project is anticipated to be completed by 2029, it will be considered in the future conditions. The boundary street analysis is based on the policy area of “Within 600m of a rapid transit station,” and the MMLOS worksheets has been provided in Appendix G.

Table 18: Boundary Street MMLOS Analysis

Segment		Pedestrian LOS		Bicycle LOS		Transit LOS		Truck LOS	
		PLOS	Target	BLOS	Target	TLOS	Target	TrLOS	Target
Ogilvie Road	Ex.	E	A	D	C	D	D	A	D
	Fut.	D	A	A	C	D	D	A	D
Cummings Avenue	Ex.	F	A	E	B	N/A	N/A	B	D
	Fut.	C	A	A	B	N/A	N/A	B	D

Ogilvie Road and Cummings Avenue will not meet the pedestrian LOS targets in the existing or future conditions. To meet the theoretical PLOS targets, the operating speeds on both roadways would need to be reduced to 30 km/h.

Ogilvie Road and Cummings Avenue do not meet the bicycle LOS target in the existing conditions, although both boundary streets will meet the bicycle LOS target in the future conditions once the Cummings Cycling (Donald to Cyrville) project is completed.

Given the roadway speeds are not changing, no changes are proposed to the boundary streets as part of this study.

## 9 Transportation Demand Management

### 9.1 Context for TDM

The mode shares used within the TIA represent a shift from auto modes to transit modes based on its proximity to Cyrville Station. Overall, the modal shares are likely to be achieved and supporting TDM measures should be provided.



The subject site is within the Cyrville TOD design priority area.

The total bedroom count within the development is subject to the final unit breakdown. No age restrictions are noted.

## 9.2 Need and Opportunity

The subject site has been assumed to rely predominantly on transit ridership with the proximity to the Cyrville Station, and those assumptions have been carried through the analysis. The redevelopment of the existing site is expected to have a modest increase in traffic beyond the existing site during the AM peak hour and a decrease during the PM peak hour, at full build out. The volumes are not anticipated to directly impact any existing or forecasted capacity concerns, which mitigate the risks of a higher auto mode than forecast. Moreover, impacts on area auto delays and capacity stemming from the fully protected left-turn phases to improve cycling safety are anticipated to further drive transit adoption, enabled by the site's proximity to Cyrville Station.

Overall, the modal shares are likely to be achieved and supporting TDM measures should be provided to encourage shifts towards sustainable modes.

## 9.3 TDM Program

The "suite of post occupancy TDM measures" has been summarized in the TDM checklists for the residential land uses. The checklist is provided in Appendix F. The key TDM measures recommended include:

- Display local area maps with walking and cycling routes, and transit route information and schedules at major entrances
- Provide a multimodal travel option information package to new residents
- Contract with providers to install carshare spaces
- Inclusion of a 1-year Presto card for first time apartment rental, with a set time frame for this offer (e.g. 6-months) from the initial opening of the site
- Unbundle parking cost from purchase/rental costs

# 10 Access Intersections Design

## 10.1 Location and Design of Access

The site access is proposed to be two-way and to permit full movements. The access is located approximately 5.0 metres from the northern property line, and approximately 61.0 metres from the protected Ogilvie Road right-of-way. It is also located approximately 73.0 metres from the existing edge of the curb along Ogilvie Road. The access meets the minimum offset of 60 metres from the Ogilvie Road right-of-way and three-metre offset from the adjacent property line from the Private Approach By-Law. The location of the access meets the Private Approach By-Law location requirements, however the northern curb return radius is noted to be approximately one metre beyond the extension of the property line at the roadway edge. This curb radius does not conflict with the existing land use or impact the ability to locate any future access on the adjacent site with the appropriate separation and the location is recommended to be approved.

The access is proposed to be 6.7-metres-wide both in its typical dimension and at the right-of-way line. Accounting for the curb returns, at the roadway edge, the access is proposed to be 17.7 metres. The maximum width of a two-way access from the Private Approach By-Law is 9.0 metres. This width is noted within the By-Law to apply to both the street (right-of-way) line as well as the roadway edge, however its application at the roadway edge is not possible to meet given the minimum driveway width of 6.0 metres from the Zoning By-Law, combined with

City Standard SC7.1 or SC 36.1. Therefore, the proposed driveway width is recommended to be approved, and a 6.0-metre curb return radius is recommended to be provided on the south side of the access.

The throat length to the first on-site conflict of the underground ramp is 24.5 metres and is 0.5 metres below the suggested minimum throat length per TAC of 25 metres for apartment developments of over 200 units accessing a collector road. It is noted that 24.5 metres and 25.0 metres provide same quantity of vehicle storage on the access, and it is recommended that the access throat be approved.

## 10.2 Access Intersection Control

The site access will have a stop-control on the minor approach.

## 10.3 Access Intersection Design Elements

Consistent with the draft functional design from the Cummings Cycling project, the access is recommended to comply with City Standard SC36.1 giving the future cycle tracks and sidewalks across the access. The proposed access configuration is recommended to be approved.

# 11 Summary of Improvements Indicated and Modifications Options

The following summarizes the analysis and results presented in this TIA report:

## Proposed Site and Screening

- The existing site is within the Cyrville TOD Plan area and design priority area
- The proposed development includes a 21-storey building comprising 271 residential units and 912 ft<sup>2</sup> of ground-floor commercial space
- The project is the first phase of an overall site concept, and is located on the 1137 Ogilvie Road and 1111 Cummings Avenue anticipated to be completed by 2027
- The proposed access configuration comprises a two-way full-movement access at the north end of the Cummings Avenue frontage
- The trip generation, location, and safety triggers were met for the TIA Screening
- This study has been prepared to support a site plan application for the first phase of development

## Existing Conditions

- Sidewalks are provided along both sides of Cummings Avenue north of Ogilvie Road, Ogilvie Road, Cyrville Road south of Ogilvie Road, Donald Street, and Labelle Street within the study area
- Sidewalks are also provided along the east side of Cyrville Road north of Ogilvie Road, of Cummings Avenue south of Ogilvie Road, and along the 1173 Cyrville Road development boundary street of Cummings Avenue
- Bike lanes are present along Ogilvie Road, Cyrville Road south of Ogilvie Road, and Donald Street
- A multi-use path (MUP) is present along the west side of Aviation Parkway and on the east side of Cyrville Road separated by a concrete rumble strip
- During both the AM and PM peak hours, the study area intersections generally operate satisfactorily, with the exception of the intersections of Ogilvie Road at Cummings Avenue and Ogilvie Road at Aviation Parkway which may experience capacity issues during the PM peak hour
- Three turning movement collisions involving cyclists were noted at the intersection of Ogilvie Road at Cummings Avenue between 2018 and 2022 and conditions are expected to be improved with the fully-protected intersection upgrades planned for implementation starting in 2027

- Three collisions involving pedestrians were noted at the intersection of Donald Street at Cummings between 2018 and 2022, and this intersection is included in the planned Cummings Cycling (Donald to Cyrville) active transportation infrastructure project

#### **Planned Conditions**

- Cycling facilities on Cummings Avenue from Donald Street to Cyrville Road, missing links on Donald Street at Elaine Drive, and signage and pavement marking for bike lanes, where feasible, on Ogilvie Road are identified in the TMP
- The construction of the Cummings Cycling project including the protected intersection of Ogilvie Road at Cummings Avenue is anticipated to be completed by 2029
- Transit improvements are planned along St-Laurent Boulevard

#### **Development Generated Travel Demand**

- The proposed development is forecasted produce 116 two-way people trips during the AM peak hour and 119 two-way people trips during the PM peak hour
- Of the forecasted people trips, 28 two-way trips vehicle trips are forecast during the AM peak hour and 29 two-way trips vehicle trips are forecast during the PM peak hour
- Of the forecasted people trips, 63 two-way transit trips during the AM peak hour and 50 two-way transit trips during the PM peak hour are forecast
- The proposed redevelopment is anticipated to generate 28 additional AM peak hour vehicles and 34 fewer PM peak hour vehicles from the existing uses
- Of the forecasted trips, 15% are anticipated to travel north and the east, 20% to the south, and 50% to the west

#### **Development Design**

- The proposed development is a residential building with a small ground floor commercial component
- Vehicle parking located in two parking levels below grade and with a drop-off loop located on the surface
- A total of 12 bicycle parking spaces are located external to the building and the remainder of bicycle parking spaces are located in the parking levels below grade
- Existing sidewalks are present along Cummings Avenue and Ogilvie Road, and hard surface connections to these facilities from the building entrances are proposed
- Vehicle access is provided via a two-way full-movement access on Cummings Avenue
- The access connects to the underground parking ramp, a drop-off loop, and the loading areas
- Garbage collection will occur in the depressed unit-paver loading area, and emergency services can access the site drive aisles

#### **Parking**

- The site proposes a total of 147 vehicle parking spaces and 283 bicycle parking spaces
- The proposed parking meets the minimum bicycle parking and maximum vehicle parking provisions from the Zoning By-Law, however is under the vehicle parking provision by 18 spaces
- Given the site is within 600 metres of Cyrville Station and is located in the Cyrville Hub and Design Priority Area and on the Ogilvie Road Mainstreet Corridor, sites across the street have no minimum parking provision, the draft zoning by-law does not require a minimum parking rate, the proposed vehicle parking rate is considered appropriate for the planning context

- It is anticipated that the site will be compliant with the rates set out by the pending rezoning for the overall parcel

### **Boundary Street Design**

- Ogilvie Road and Cummings Avenue do not meet the pedestrian LOS targets
- To meet theoretical PLOS targets, the operating speeds on both roadways would need to be reduced to 30 km/h
- Ogilvie Road and Cummings Avenue do not meet the bicycle LOS target in the existing conditions, but both boundary streets will meet the bicycle LOS target in the future conditions once the Cummings Cycling (Donald to Cyrville) project is completed
- Given the roadway speeds are not changing, no changes are proposed to the boundary streets as part of this study

### **TDM**

- Supportive TDM measures recommended to be included within the proposed development include:
  - Display local area maps with walking and cycling routes, and transit route information and schedules at major entrances
  - Provide a multimodal travel option information package to new residents
  - Contract with providers to install carshare spaces
  - Inclusion of a 1-year Presto card for first time apartment rental, with a set time frame for this offer (e.g. 6-months) from the initial opening of the site
  - Unbundle parking cost from purchase/rental costs

### **Intersection Design**

- The site access meets the Private Approach By-Law provisions, and its curb return is noted to be approximately one metre over the extension of the adjacent property line at the roadway edge, however this does not impact the existing site or constrain future development
- The throat length functionally meets the TAC suggested minimum values under the recommended configuration
- The site access will have a stop-control on the minor approach
- The site accesses are recommended to comply with City Standard SC36.1 and it is recommended that the proposed site access configuration be approved

## 12 Conclusion

It is recommended that, from a transportation perspective, the proposed development applications proceed.

Prepared By:



John Kingsley, BEng  
Transportation Engineering Intern

Reviewed By:



Andrew Harte, P.Eng.  
Senior Transportation Engineer

# Appendix A

TIA Screening Form and PM Certification Form

City of Ottawa 2023 Revisions to 2017 TIA Guidelines  
Step 1 - Screening Form

Date: 02-Sep-25  
Project Number: 2023-139  
Project Reference: 1137 Ogilvie

1.1 Description of Proposed Development	
Municipal Address	1137 Ogilvie Road, 1111 Cummings Avenue
Description of Location	Northeast quadrant of Ogilvie Rd @ Cummings Ave intersection
Land Use Classification	Local Commercial (LC6) - rezoning to Transit Oriented Development (TD3)
Development Size	271 apartment units
Accesses	One full moves onto Cummings Avenue
Phase of Development	First Phase of Two
Buildout Year	2027
TIA Requirement	Full TIA Required

1.2 Trip Generation Trigger	
Land Use Type	Multi-Family (High-Rise)
Development Size	271 Units
Trip Generation Trigger	Yes

1.3 Location Triggers	
Does the development propose a new driveway to a boundary street that is designated as part of the Transit Priority Network, Rapid Transit network or Cross-Town Bikeways?	No
Is the development in a Hub, a Protected Major Transit Station Area (PMTSA), or a Design Priority Area (DPA)?	Yes Cyrville TOD
Location Trigger	Yes

1.4. Safety Triggers	
Are posted speed limits on a boundary street 80 km/hr or greater?	No
Are there any horizontal/vertical curvatures on a boundary street limits sight lines at a proposed driveway?	No
Is the proposed driveway within the area of influence of an adjacent traffic signal or roundabout (i.e. within 300 m of intersection in rural conditions, or within 150 m of intersection in urban/ suburban conditions)?	Yes
Is the proposed driveway within auxiliary lanes of an intersection?	Yes
Does the proposed driveway make use of an existing median break that serves an existing site?	Yes
Is there is a documented history of traffic operations or safety concerns on the boundary streets within 500 m of the development?	Yes Collisions at the intersection of Ogilvie Rd at Cummings Ave
Does the development include a drive-thru facility?	No
Safety Trigger	Yes





## Certification Form for TIA Study PM

### TIA Plan Reports

On April 14, 2022, the Province's Bill 109 received Royal Assent providing legislative direction to implement the More Homes for Everyone Act, 2022 aiming to increase the supply of a range of housing options to make housing more affordable. Revisions have been made to the TIA guidelines to comply with Bill 109 and streamline the process for applicants and staff.

Individuals submitting TIA reports will be responsible for all aspects of development-related transportation assessment and reporting, and undertaking such work, in accordance and compliance with the City of Ottawa's Official Plan, the Transportation Master Plan and the Transportation Impact Assessment (2017) Guidelines.

By submitting the attached TIA report (and any associated documents) and signing this document, the individual acknowledges that they meet the four criteria listed below.

### CERTIFICATION



I have reviewed and have a sound understanding of the objectives, needs and requirements of the City of Ottawa's Official Plan, Transportation Master Plan and the Transportation Impact Assessment (2017) Guidelines; (Update effective July 2023)



I have a sound knowledge of industry standard practice with respect to the preparation of transportation impact assessment reports, including multi modal level of service review;



I have substantial experience (more than 5 years) in undertaking and delivering transportation impact studies (analysis, reporting and geometric design) with strong background knowledge in transportation planning, engineering or traffic operations; and



I am either a licensed or registered<sup>1</sup> professional in good standing, whose field of expertise



is either transportation engineering



or transportation planning.

<sup>1</sup> License of registration body that oversees the profession is required to have a code of conduct and ethics guidelines that will ensure appropriate conduct and representation for transportation planning and/or transportation engineering works.

Dated at Ottawa this 17 day of August, 20 23.  
(City)

Name : Andrew Harte

Professional title: Senior Transportation Engineer / Vice-President Ottawa



Signature of individual certifier that s/he/they meet the above criteria

<b>Office Contact Information (Please Print)</b>
Address: <u>6 Plaza Court</u>
City / Postal Code: <u>Ottawa, K2H 7W1</u>
Telephone / Extension: <u>613-697-3797</u>
Email Address: <u>andrew.harte@cghtransportation.com</u>

**Stamp**



Revision Date: June 2023

# Appendix B

Turning Movement Counts



## Project #23-352 - CGH Transportation

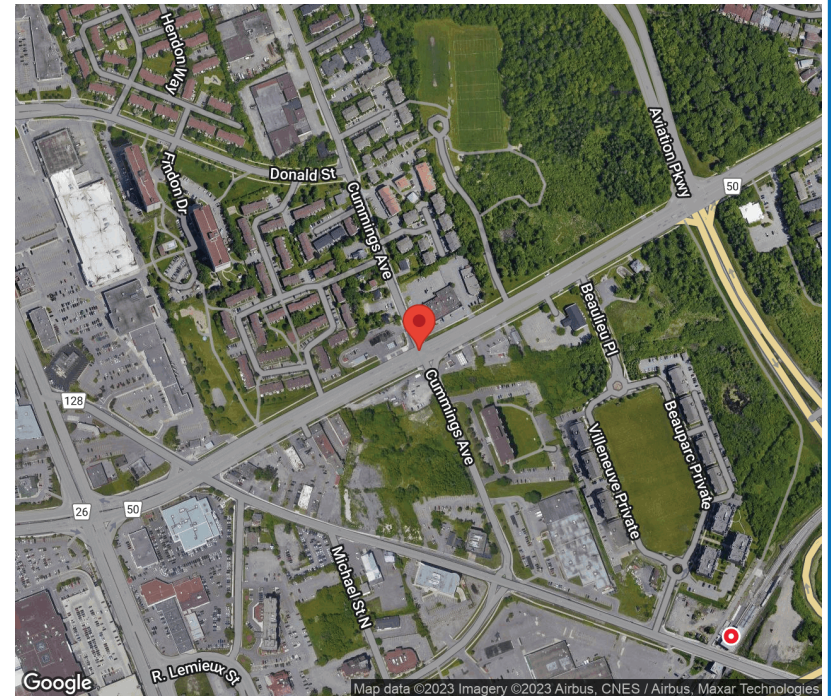
### Intersection Count Report

**Intersection:** Ogilvie Rd & Cummings Ave  
**Municipality:** Ottawa  
**Count Date:** Tuesday, Oct 31, 2023  
**Site Code:** 2335200001  
**Count Categories:** Cars, Trucks, Bicycles, Pedestrians  
**Count Period:** 07:00-10:00, 11:30-13:30, 15:00-18:00  
**Weather:** Clear  
**Comments:**



### Traffic Count Map

**Intersection:** Ogilvie Rd & Cummings Ave  
**Site Code:** 2335200001  
**Municipality:** Ottawa  
**Count Date:** Oct 31, 2023





### Traffic Count Summary

Intersection: Ogilvie Rd & Cummings Ave  
 Site Code: 2335200001  
 Municipality: Ottawa  
 Count Date: Oct 31, 2023

#### Cummings Ave - Traffic Summary

Hour	North Approach Totals						South Approach Totals						Total
	Includes Cars, Trucks, Bicycles						Includes Cars, Trucks, Bicycles						
	Left	Thru	Right	U-Turn	Total	Peds	Left	Thru	Right	U-Turn	Total	Peds	
07:00 - 08:00	129	96	105	0	330	7	17	78	51	0	146	6	476
08:00 - 09:00	167	109	101	0	377	27	17	124	77	0	218	8	595
09:00 - 10:00	191	111	120	0	422	13	30	112	84	0	226	9	648
BREAK													
11:30 - 12:00	84	76	40	0	200	5	20	79	66	0	165	3	365
12:00 - 13:00	236	145	93	0	474	13	46	149	144	0	339	20	813
13:00 - 13:30	104	56	31	0	191	5	17	53	70	0	140	4	331
BREAK													
15:00 - 16:00	278	168	119	0	565	10	54	195	173	0	422	15	987
16:00 - 17:00	273	192	137	0	602	38	35	204	202	0	441	12	1043
17:00 - 18:00	247	144	77	0	468	12	52	195	139	0	386	19	854
<b>GRAND TOTAL</b>	<b>1709</b>	<b>1097</b>	<b>823</b>	<b>0</b>	<b>3629</b>	<b>130</b>	<b>288</b>	<b>1189</b>	<b>1006</b>	<b>0</b>	<b>2483</b>	<b>96</b>	<b>6112</b>



### Traffic Count Summary

Intersection: Ogilvie Rd & Cummings Ave  
 Site Code: 2335200001  
 Municipality: Ottawa  
 Count Date: Oct 31, 2023

#### Ogilvie Rd - Traffic Summary

Hour	East Approach Totals						West Approach Totals						Total
	Includes Cars, Trucks, Bicycles						Includes Cars, Trucks, Bicycles						
	Left	Thru	Right	U-Turn	Total	Peds	Left	Thru	Right	U-Turn	Total	Peds	
07:00 - 08:00	77	575	112	3	767	29	57	512	9	0	578	1	1345
08:00 - 09:00	108	1042	209	0	1359	52	71	598	13	1	683	5	2042
09:00 - 10:00	78	617	172	0	867	25	81	517	16	4	618	8	1485
BREAK													
11:30 - 12:00	64	304	82	2	452	7	39	321	16	1	377	5	829
12:00 - 13:00	114	630	184	7	935	20	85	685	27	9	806	13	1741
13:00 - 13:30	61	277	92	0	430	7	36	321	14	6	377	3	807
BREAK													
15:00 - 16:00	99	736	249	6	1090	68	116	915	29	12	1072	17	2162
16:00 - 17:00	144	801	224	4	1173	29	144	1047	27	11	1229	11	2402
17:00 - 18:00	94	561	222	2	879	26	127	971	24	5	1127	16	2006
<b>GRAND TOTAL</b>	<b>839</b>	<b>5543</b>	<b>1546</b>	<b>24</b>	<b>7952</b>	<b>263</b>	<b>756</b>	<b>5887</b>	<b>175</b>	<b>49</b>	<b>6867</b>	<b>79</b>	<b>14819</b>



### Traffic Count Data

Intersection: Ogilvie Rd & Cummings Ave  
 Site Code: 2335200001  
 Municipality: Ottawa  
 Count Date: Oct 31, 2023

#### North Approach - Cummings Ave

Start Time	Cars				Total	Trucks				Total	Bicycles				Total	Total Peds
	←	↑	→	↻		←	↑	→	↻		←	↑	→	↻		
07:00	28	22	15	0	65	1	0	0	0	1	0	0	0	0	0	0
07:15	20	24	25	0	69	1	0	0	0	1	0	0	0	0	0	0
07:30	37	19	28	0	84	2	1	0	0	3	1	0	0	0	1	3
07:45	36	30	37	0	103	2	0	0	0	2	1	0	0	0	1	3
08:00	32	25	24	0	81	1	0	0	0	1	0	0	0	0	0	8
08:15	47	27	26	0	100	1	1	0	0	2	0	1	0	0	1	10
08:30	42	24	28	0	94	0	0	1	0	1	1	0	0	0	1	7
08:45	40	31	22	0	93	3	0	0	0	3	0	0	0	0	0	2
09:00	59	25	32	0	116	2	1	0	0	3	0	0	0	0	0	3
09:15	51	28	26	0	105	1	1	1	0	3	1	0	1	0	2	2
09:30	36	24	36	0	96	1	1	1	0	3	1	0	0	0	1	3
09:45	39	31	23	0	93	0	0	0	0	0	0	0	0	0	0	5
<b>SUBTOTAL</b>	<b>467</b>	<b>310</b>	<b>322</b>	<b>0</b>	<b>1099</b>	<b>15</b>	<b>5</b>	<b>3</b>	<b>0</b>	<b>23</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>7</b>	<b>47</b>



### Traffic Count Data

Intersection: Ogilvie Rd & Cummings Ave  
 Site Code: 2335200001  
 Municipality: Ottawa  
 Count Date: Oct 31, 2023

#### North Approach - Cummings Ave

Start Time	Cars				Total	Trucks				Total	Bicycles				Total	Total Peds
	←	↑	→	↻		←	↑	→	↻		←	↑	→	↻		
11:30	35	41	17	0	93	4	0	2	0	6	0	0	0	0	0	1
11:45	43	35	20	0	98	0	0	1	0	1	2	0	0	0	2	4
12:00	59	46	18	0	123	2	1	0	0	3	0	0	0	0	0	4
12:15	64	27	24	0	115	0	1	0	0	1	0	0	0	0	0	4
12:30	50	37	27	0	114	0	2	0	0	2	0	0	0	0	0	4
12:45	61	31	22	0	114	0	0	2	0	2	0	0	0	0	0	1
13:00	50	22	11	0	83	0	1	1	0	2	0	0	0	0	0	2
13:15	54	32	19	0	105	0	1	0	0	1	0	0	0	0	0	3
<b>SUBTOTAL</b>	<b>416</b>	<b>271</b>	<b>158</b>	<b>0</b>	<b>845</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>0</b>	<b>18</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>23</b>



### Traffic Count Data

Intersection: Ogilvie Rd & Cummings Ave  
 Site Code: 2335200001  
 Municipality: Ottawa  
 Count Date: Oct 31, 2023

#### North Approach - Cummings Ave

Start Time	Cars				Total	Trucks				Total	Bicycles				Total	Total Peds
	←	↑	→	↻		←	↑	→	↻		←	↑	→	↻		
15:00	60	41	32	0	133	1	0	2	0	3	0	0	0	0	0	3
15:15	75	35	31	0	141	0	2	2	0	4	0	0	0	0	0	2
15:30	70	36	26	0	132	2	0	0	0	2	0	0	0	0	0	0
15:45	68	54	26	0	148	2	0	0	0	2	0	0	0	0	0	5
16:00	60	48	32	0	140	3	0	0	0	3	0	0	0	0	0	4
16:15	76	48	35	0	159	1	1	1	0	3	0	1	0	0	1	20
16:30	54	46	32	0	132	1	0	0	0	1	0	0	0	0	0	7
16:45	77	48	37	0	162	1	0	0	0	1	0	0	0	0	0	7
17:00	78	40	23	0	141	1	0	0	0	1	0	0	0	0	0	4
17:15	64	33	25	0	122	1	0	0	0	1	0	0	0	0	0	6
17:30	49	42	17	0	108	0	0	1	0	1	0	0	0	0	0	0
17:45	54	29	11	0	94	0	0	0	0	0	0	0	0	0	0	2
<b>SUBTOTAL</b>	<b>785</b>	<b>500</b>	<b>327</b>	<b>0</b>	<b>1612</b>	<b>13</b>	<b>3</b>	<b>6</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>60</b>
<b>GRAND TOTAL</b>	<b>1668</b>	<b>1081</b>	<b>807</b>	<b>0</b>	<b>3556</b>	<b>34</b>	<b>14</b>	<b>15</b>	<b>0</b>	<b>63</b>	<b>7</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>10</b>	<b>130</b>



### Traffic Count Data

Intersection: Ogilvie Rd & Cummings Ave  
 Site Code: 2335200001  
 Municipality: Ottawa  
 Count Date: Oct 31, 2023

#### South Approach - Cummings Ave

Start Time	Cars				Total	Trucks				Total	Bicycles				Total	Total Peds
	←	↑	→	↻		←	↑	→	↻		←	↑	→	↻		
07:00	5	11	14	0	30	0	0	3	0	3	0	0	1	0	1	1
07:15	5	21	11	0	37	1	3	2	0	6	0	0	0	0	0	3
07:30	2	19	6	0	27	0	3	0	0	3	0	1	0	0	1	0
07:45	4	20	14	0	38	0	0	0	0	0	0	0	0	0	0	2
08:00	1	35	12	0	48	0	1	0	0	1	0	0	0	0	0	1
08:15	4	24	14	0	42	0	0	0	0	0	0	0	0	0	0	5
08:30	4	33	26	0	63	0	1	1	0	2	0	0	0	0	0	1
08:45	8	28	22	0	58	0	2	2	0	4	0	0	0	0	0	1
09:00	14	21	22	0	57	0	1	2	0	3	0	0	0	0	0	3
09:15	4	29	22	0	55	0	0	1	0	1	0	0	0	0	0	2
09:30	8	32	17	0	57	0	1	4	0	5	0	0	0	0	0	2
09:45	3	27	16	0	46	1	1	0	0	2	0	0	0	0	0	2
<b>SUBTOTAL</b>	<b>62</b>	<b>300</b>	<b>196</b>	<b>0</b>	<b>558</b>	<b>2</b>	<b>13</b>	<b>15</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>23</b>





### Traffic Count Data

Intersection: Ogilvie Rd & Cummings Ave  
 Site Code: 2335200001  
 Municipality: Ottawa  
 Count Date: Oct 31, 2023

#### South Approach - Cummings Ave

Start Time	Cars				Total	Trucks				Total	Bicycles				Total	Total Peds
	←	↑	→	↻		←	↑	→	↻		←	↑	→	↻		
11:30	8	43	34	0	85	0	3	1	0	4	0	0	0	0	0	2
11:45	12	32	31	0	75	0	0	0	0	0	0	1	0	0	1	1
12:00	14	42	37	0	93	0	3	0	0	3	0	0	0	0	0	5
12:15	9	30	40	0	79	0	0	0	0	0	0	0	0	0	0	3
12:30	16	37	37	0	90	0	1	0	0	1	0	0	0	0	0	6
12:45	7	36	30	0	73	0	0	0	0	0	0	0	0	0	0	6
13:00	6	24	26	0	56	0	0	0	0	0	1	0	0	0	1	1
13:15	10	29	40	0	79	0	0	4	0	4	0	0	0	0	0	3
<b>SUBTOTAL</b>	<b>82</b>	<b>273</b>	<b>275</b>	<b>0</b>	<b>630</b>	<b>0</b>	<b>7</b>	<b>5</b>	<b>0</b>	<b>12</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>27</b>



### Traffic Count Data

Intersection: Ogilvie Rd & Cummings Ave  
 Site Code: 2335200001  
 Municipality: Ottawa  
 Count Date: Oct 31, 2023

#### South Approach - Cummings Ave

Start Time	Cars				Total	Trucks				Total	Bicycles				Total	Total Peds
	←	↑	→	↻		←	↑	→	↻		←	↑	→	↻		
15:00	8	58	36	0	102	1	0	0	0	1	0	0	0	0	0	6
15:15	22	61	38	0	121	0	0	0	0	0	0	0	0	0	0	4
15:30	9	42	58	0	109	0	1	0	0	1	0	0	0	0	0	2
15:45	12	33	39	0	84	1	0	2	0	3	1	0	0	0	1	3
16:00	9	48	52	0	109	0	0	0	0	0	0	0	0	0	0	1
16:15	10	55	50	0	115	0	1	0	0	1	0	0	0	0	0	7
16:30	7	42	54	0	103	0	1	0	0	1	0	0	0	0	0	3
16:45	9	57	46	0	112	0	0	0	0	0	0	0	0	0	0	1
17:00	11	50	45	0	106	0	0	0	0	0	0	0	0	0	0	5
17:15	12	49	45	0	106	0	0	0	0	0	0	0	0	0	0	5
17:30	12	48	30	0	90	0	1	0	0	1	0	0	0	0	0	5
17:45	17	47	19	0	83	0	0	0	0	0	0	0	0	0	0	4
<b>SUBTOTAL</b>	<b>138</b>	<b>590</b>	<b>512</b>	<b>0</b>	<b>1240</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>8</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>46</b>
<b>GRAND TOTAL</b>	<b>282</b>	<b>1163</b>	<b>983</b>	<b>0</b>	<b>2428</b>	<b>4</b>	<b>24</b>	<b>22</b>	<b>0</b>	<b>50</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>96</b>



### Traffic Count Data

Intersection: Ogilvie Rd & Cummings Ave  
 Site Code: 2335200001  
 Municipality: Ottawa  
 Count Date: Oct 31, 2023

#### East Approach - Ogilvie Rd

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
07:00	14	71	20	1	106	0	2	0	0	2	0	1	0	0	1	7
07:15	22	136	32	0	190	0	4	0	0	4	0	1	0	0	1	3
07:30	14	144	23	1	182	1	1	2	0	4	0	3	0	0	3	13
07:45	25	203	34	1	263	1	6	1	0	8	0	3	0	0	3	6
08:00	22	255	42	0	319	0	6	3	0	9	0	0	0	0	0	16
08:15	30	240	50	0	320	0	6	1	0	7	0	2	0	0	2	12
08:30	28	256	55	0	339	1	5	0	0	6	0	2	0	0	2	16
08:45	25	261	57	0	343	2	6	1	0	9	0	3	0	0	3	8
09:00	20	141	35	0	196	0	5	1	0	6	0	0	0	0	0	9
09:15	19	171	49	0	239	0	11	1	0	12	0	0	0	0	0	7
09:30	17	143	42	0	202	0	4	1	0	5	0	1	0	0	1	7
09:45	22	139	41	0	202	0	2	2	0	4	0	0	0	0	0	2
<b>SUBTOTAL</b>	258	2160	480	3	2901	5	58	13	0	76	0	16	0	0	16	106



### Traffic Count Data

Intersection: Ogilvie Rd & Cummings Ave  
 Site Code: 2335200001  
 Municipality: Ottawa  
 Count Date: Oct 31, 2023

#### East Approach - Ogilvie Rd

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
11:30	31	152	36	0	219	0	2	1	0	3	0	0	0	0	0	4
11:45	32	147	44	2	225	1	3	1	0	5	0	0	0	0	0	3
12:00	28	169	52	1	250	2	1	1	0	4	0	0	0	0	0	8
12:15	27	166	46	1	240	2	3	1	0	6	0	0	0	0	0	2
12:30	21	144	42	2	209	3	3	0	0	6	0	2	0	0	2	6
12:45	30	139	42	3	214	1	3	0	0	4	0	0	0	0	0	4
13:00	24	133	39	0	196	0	2	0	0	2	0	0	0	0	0	2
13:15	34	141	52	0	227	3	1	1	0	5	0	0	0	0	0	5
<b>SUBTOTAL</b>	227	1191	353	9	1780	12	18	5	0	35	0	2	0	0	2	34



### Traffic Count Data

Intersection: Ogilvie Rd & Cummings Ave  
 Site Code: 2335200001  
 Municipality: Ottawa  
 Count Date: Oct 31, 2023

#### East Approach - Ogilvie Rd

Start Time	Cars				Total	Trucks				Total	Bicycles				Total	Total Peds
	←	↑	→	↻		←	↑	→	↻		←	↑	→	↻		
15:00	20	170	60	3	253	0	3	1	0	4	0	0	1	0	1	33
15:15	29	185	57	1	272	1	5	2	0	8	0	3	0	0	3	13
15:30	19	190	70	1	280	1	0	0	0	1	0	1	0	0	1	12
15:45	28	171	58	1	258	1	7	0	0	8	0	1	0	0	1	10
16:00	38	213	52	2	305	1	5	3	0	9	0	2	2	0	4	6
16:15	37	185	49	1	272	3	4	0	0	7	0	4	0	0	4	9
16:30	30	197	64	0	291	3	3	0	0	6	0	2	0	0	2	10
16:45	32	176	54	1	263	0	6	0	0	6	0	4	0	0	4	4
17:00	25	152	69	1	247	0	2	0	0	2	0	3	1	0	4	5
17:15	27	127	60	0	214	1	2	1	0	4	0	5	1	0	6	6
17:30	23	144	43	1	211	0	2	0	0	2	0	1	1	0	2	7
17:45	18	122	46	0	186	0	0	0	0	0	0	1	0	0	1	8
<b>SUBTOTAL</b>	326	2032	682	12	3052	11	39	7	0	57	0	27	6	0	33	123
<b>GRAND TOTAL</b>	811	5383	1515	24	7733	28	115	25	0	168	0	45	6	0	51	263



### Traffic Count Data

Intersection: Ogilvie Rd & Cummings Ave  
 Site Code: 2335200001  
 Municipality: Ottawa  
 Count Date: Oct 31, 2023

#### West Approach - Ogilvie Rd

Start Time	Cars				Total	Trucks				Total	Bicycles				Total	Total Peds
	←	↑	→	↻		←	↑	→	↻		←	↑	→	↻		
07:00	16	79	2	0	97	0	7	0	0	7	0	0	0	0	0	0
07:15	13	118	1	0	132	0	2	2	0	4	0	0	0	0	0	1
07:30	10	135	2	0	147	0	3	0	0	3	0	0	0	0	0	0
07:45	17	163	2	0	182	1	3	0	0	4	0	2	0	0	2	0
08:00	19	124	1	1	145	1	2	0	0	3	0	1	0	0	1	1
08:15	16	128	7	0	151	2	5	1	0	8	0	2	0	0	2	2
08:30	19	148	3	0	170	1	3	0	0	4	0	11	0	0	11	1
08:45	12	163	1	0	176	1	9	0	0	10	0	2	0	0	2	1
09:00	22	150	0	1	173	1	7	1	0	9	0	6	0	0	6	1
09:15	19	130	2	2	153	0	3	0	0	3	0	3	0	0	3	2
09:30	22	98	4	0	124	1	5	1	0	7	0	2	0	0	2	4
09:45	14	113	8	1	136	2	0	0	0	2	0	0	0	0	0	1
<b>SUBTOTAL</b>	199	1549	33	5	1786	10	49	5	0	64	0	29	0	0	29	14



### Traffic Count Data

Intersection: Ogilvie Rd & Cummings Ave  
 Site Code: 2335200001  
 Municipality: Ottawa  
 Count Date: Oct 31, 2023

#### West Approach - Ogilvie Rd

Start Time	Cars				Total	Trucks				Total	Bicycles				Total	Total Peds
	←	↑	→	↻		←	↑	→	↻		←	↑	→	↻		
11:30	17	151	5	1	174	1	4	1	0	6	0	2	0	0	2	0
11:45	20	160	9	0	189	1	4	1	0	6	0	0	0	0	0	5
12:00	30	159	7	1	197	0	1	0	0	1	0	0	0	0	0	6
12:15	19	181	5	0	205	0	1	0	0	1	0	0	0	0	0	1
12:30	14	160	7	2	183	0	4	1	0	5	0	0	0	0	0	5
12:45	21	172	7	6	206	1	6	0	0	7	0	1	0	0	1	1
13:00	17	145	6	2	170	0	3	0	0	3	0	0	0	0	0	2
13:15	19	172	8	4	203	0	1	0	0	1	0	0	0	0	0	1
<b>SUBTOTAL</b>	157	1300	54	16	1527	3	24	3	0	30	0	3	0	0	3	21



### Traffic Count Data

Intersection: Ogilvie Rd & Cummings Ave  
 Site Code: 2335200001  
 Municipality: Ottawa  
 Count Date: Oct 31, 2023

#### West Approach - Ogilvie Rd

Start Time	Cars				Total	Trucks				Total	Bicycles				Total	Total Peds
	←	↑	→	↻		←	↑	→	↻		←	↑	→	↻		
15:00	27	202	6	7	242	1	8	1	0	10	0	2	0	0	2	6
15:15	31	220	5	3	259	0	5	0	0	5	0	0	0	0	0	1
15:30	28	257	9	2	296	1	5	0	0	6	0	0	0	0	0	2
15:45	28	210	8	0	246	0	4	0	0	4	0	2	0	0	2	8
16:00	35	249	7	0	291	0	6	0	0	6	0	0	0	0	0	1
16:15	30	224	5	5	264	0	1	1	0	2	0	2	0	0	2	7
16:30	45	289	5	3	342	0	8	0	0	8	0	2	0	0	2	2
16:45	34	263	9	3	309	0	2	0	0	2	0	1	0	0	1	1
17:00	32	292	10	1	335	2	2	0	0	4	0	0	0	0	0	0
17:15	24	228	7	2	261	0	2	0	0	2	0	3	0	0	3	8
17:30	34	233	3	0	270	0	3	0	0	3	0	3	0	0	3	3
17:45	34	203	4	2	243	1	1	0	0	2	0	1	0	0	1	5
<b>SUBTOTAL</b>	382	2870	78	28	3358	5	47	2	0	54	0	16	0	0	16	44
<b>GRAND TOTAL</b>	738	5719	165	49	6671	18	120	10	0	148	0	48	0	0	48	79



## Peak Hour Diagram

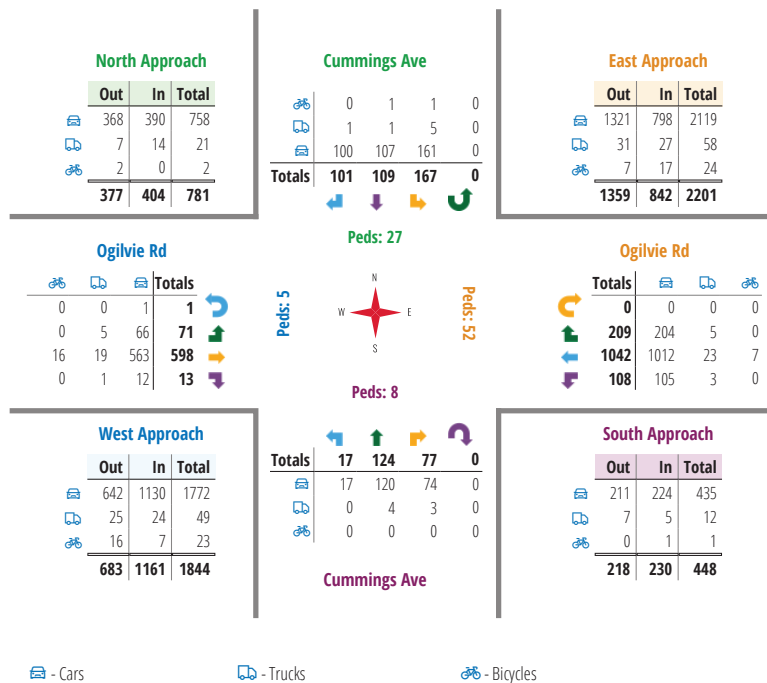
**Specified Period**      **One Hour Peak**  
 From: 07:00:00      From: 08:00:00  
 To: 10:00:00      To: 09:00:00

**Intersection:** Ogilvie Rd & Cummings Ave  
**Site Code:** 2335200001  
**Count Date:** Oct 31, 2023

**Weather conditions:** Clear

**\*\* Signalized Intersection \*\***

**Major Road:** Ogilvie Rd runs E/W



**Comments**



## Peak Hour Summary

**Intersection:** Ogilvie Rd & Cummings Ave  
**Site Code:** 2335200001  
**Count Date:** Oct 31, 2023  
**Period:** 07:00 - 10:00

### Peak Hour Data (08:00 - 09:00)

Start Time	North Approach Cummings Ave				South Approach Cummings Ave				East Approach Ogilvie Rd				West Approach Ogilvie Rd				Total Vehicles									
	Peds	Total	Peds	Total	Peds	Total	Peds	Total	Peds	Total	Peds	Total														
08:00	33	25	24	0	8	82	1	36	12	0	1	49	22	261	45	0	16	328	20	127	1	1	1	149	608	
08:15	48	29	26	0	7	96	4	34	14	0	5	42	30	248	51	0	12	329	18	135	8	0	2	161	635	
08:30	43	24	29	0	7	96	4	34	27	0	1	65	29	263	55	0	16	347	20	162	3	0	1	105	693	
08:45	43	31	22	0	2	96	8	30	24	0	1	62	27	270	58	0	8	355	13	174	1	0	1	188	701	
<b>Grand Total</b>	<b>167</b>	<b>109</b>	<b>101</b>	<b>0</b>	<b>27</b>	<b>377</b>	<b>17</b>	<b>124</b>	<b>77</b>	<b>0</b>	<b>8</b>	<b>218</b>	<b>108</b>	<b>1042</b>	<b>209</b>	<b>0</b>	<b>52</b>	<b>1359</b>	<b>71</b>	<b>598</b>	<b>13</b>	<b>1</b>	<b>5</b>	<b>683</b>	<b>2637</b>	
<b>Approach %</b>	44.3	28.9	26.8	0	-	7.8	56.9	35.3	0	-	7.9	76.7	15.4	0	-	10.4	87.6	1.9	0.1	-	-	-	-	-	-	-
<b>Totals %</b>	6.3	4.1	3.8	0	14.3	0.6	4.7	2.9	0	8.3	4.1	39.5	7.9	0	51.5	2.7	22.7	0.5	0	25.9	-	-	-	-	-	
<b>PHF</b>	<b>0.87</b>	<b>0.88</b>	<b>0.87</b>	<b>0</b>	<b>0.92</b>	<b>0.53</b>	<b>0.86</b>	<b>0.71</b>	<b>0</b>	<b>0.84</b>	<b>0.9</b>	<b>0.96</b>	<b>0.9</b>	<b>0</b>	<b>0.96</b>	<b>0.89</b>	<b>0.86</b>	<b>0.41</b>	<b>0.25</b>	<b>0.91</b>	<b>0.94</b>	-	-	-	-	
<b>Cars</b>	161	107	100	0	368	17	120	74	0	211	105	1012	204	0	1321	66	563	12	1	642	2542	-	-	-	-	
<b>% Cars</b>	96.4	98.2	99	0	97.6	100	96.8	96.1	0	96.8	97.2	97.1	97.6	0	97.2	93	94.1	92.3	100	94	96.4	-	-	-	-	
<b>Trucks</b>	5	1	1	0	7	0	4	3	0	7	3	23	5	0	31	5	19	1	0	25	70	-	-	-	-	
<b>% Trucks</b>	3	0.9	1	0	1.9	0	3.2	3.9	0	3.2	2.8	2.2	2.4	0	2.3	7	3.2	7.7	0	3.7	2.7	-	-	-	-	
<b>Bicycles</b>	1	1	0	0	2	0	0	0	0	0	7	0	0	0	7	0	16	0	0	16	25	-	-	-	-	
<b>% Bicycles</b>	0.6	0.9	0	0	0.5	0	0	0	0	0	0.7	0	0	0	0.5	0	2.7	0	0	2.3	0.9	-	-	-	-	
<b>Peds</b>					27					8					52					5						92
<b>% Peds</b>					29.3					8.7					56.5					5.4						



## Peak Hour Diagram

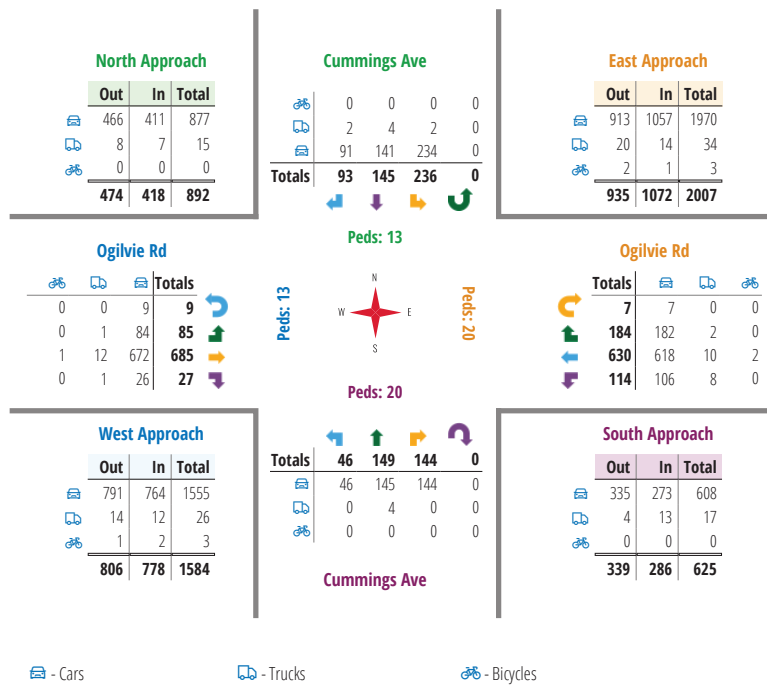
**Specified Period**      **One Hour Peak**  
 From: 11:30:00      From: 12:00:00  
 To: 13:30:00      To: 13:00:00

**Intersection:** Ogilvie Rd & Cummings Ave  
**Site Code:** 2335200001  
**Count Date:** Oct 31, 2023

**Weather conditions:** Clear

**\*\* Signalized Intersection \*\***

**Major Road:** Ogilvie Rd runs E/W



**Comments**



## Peak Hour Summary

**Intersection:** Ogilvie Rd & Cummings Ave  
**Site Code:** 2335200001  
**Count Date:** Oct 31, 2023  
**Period:** 11:30 - 13:30

### Peak Hour Data (12:00 - 13:00)

Start Time	North Approach Cummings Ave				South Approach Cummings Ave				East Approach Ogilvie Rd				West Approach Ogilvie Rd				Total Vehicles								
	Cars	Trucks	Bicycles	Peds	Cars	Trucks	Bicycles	Peds	Cars	Trucks	Bicycles	Peds	Cars	Trucks	Bicycles	Peds									
12:00	61	47	18	0	4	126	14	45	37	0	5	96	30	170	53	1	8	254	30	160	7	1	6	198	674
12:15	64	28	24	0	4	116	9	30	40	0	3	79	29	169	47	1	2	246	19	182	5	0	1	206	647
12:30	50	39	27	0	4	116	16	38	37	0	6	91	24	149	42	2	6	217	14	154	8	2	5	188	612
12:45	61	31	24	0	1	116	7	36	30	0	6	73	31	142	42	3	4	218	22	179	7	6	1	214	621
<b>Grand Total</b>	<b>236</b>	<b>145</b>	<b>93</b>	<b>0</b>	<b>13</b>	<b>474</b>	<b>46</b>	<b>149</b>	<b>144</b>	<b>0</b>	<b>20</b>	<b>339</b>	<b>114</b>	<b>630</b>	<b>184</b>	<b>7</b>	<b>20</b>	<b>935</b>	<b>85</b>	<b>685</b>	<b>27</b>	<b>9</b>	<b>13</b>	<b>806</b>	<b>2554</b>
<b>Approach %</b>	49.8	30.6	19.6	0	-	-	13.6	44	42.5	0	-	-	12.2	67.4	19.7	0.7	-	-	10.5	85	3.3	1.1	-	-	-
<b>Totals %</b>	9.2	5.7	3.6	0	18.6	1.8	5.8	5.6	0	13.3	4.5	24.7	7.2	0.3	36.6	3.3	26.8	1.1	0.4	31.6	-	-	-		
<b>PHF</b>	<b>0.92</b>	<b>0.77</b>	<b>0.86</b>	<b>0</b>	<b>0.94</b>	<b>0.72</b>	<b>0.83</b>	<b>0.9</b>	<b>0</b>	<b>0.88</b>	<b>0.92</b>	<b>0.93</b>	<b>0.87</b>	<b>0.58</b>	<b>0.92</b>	<b>0.71</b>	<b>0.94</b>	<b>0.84</b>	<b>0.38</b>	<b>0.94</b>	<b>0.95</b>	-	-	-	
<b>Cars</b>	234	141	91	0	466	46	145	144	0	335	106	618	182	7	913	84	672	26	9	791	2505	-	-	-	
<b>% Cars</b>	99.2	97.2	97.8	0	98.3	100	97.3	100	0	98.8	93	98.1	98.9	100	97.6	98.8	98.1	96.3	100	98.1	98.1	-	-	-	
<b>Trucks</b>	2	4	2	0	8	0	4	0	0	4	8	10	2	0	20	1	12	1	0	14	46	-	-	-	
<b>% Trucks</b>	0.8	2.8	2.2	0	1.7	0	2.7	0	0	1.2	7	1.6	1.1	0	2.1	1.2	1.8	3.7	0	1.7	1.8	-	-	-	
<b>Bicycles</b>	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	0	1	3	-	-	-
<b>% Bicycles</b>	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0.3	0	0	0.1	0	0	0.1	0.1	-	-	-
<b>Peds</b>	0	0	0	0	13	-	-	-	-	20	-	-	-	20	-	-	-	-	-	-	13	-	66	-	-
<b>% Peds</b>	0	0	0	0	19.7	-	-	-	-	30.3	-	-	-	30.3	-	-	-	-	-	-	19.7	-	-	-	-



## Peak Hour Diagram

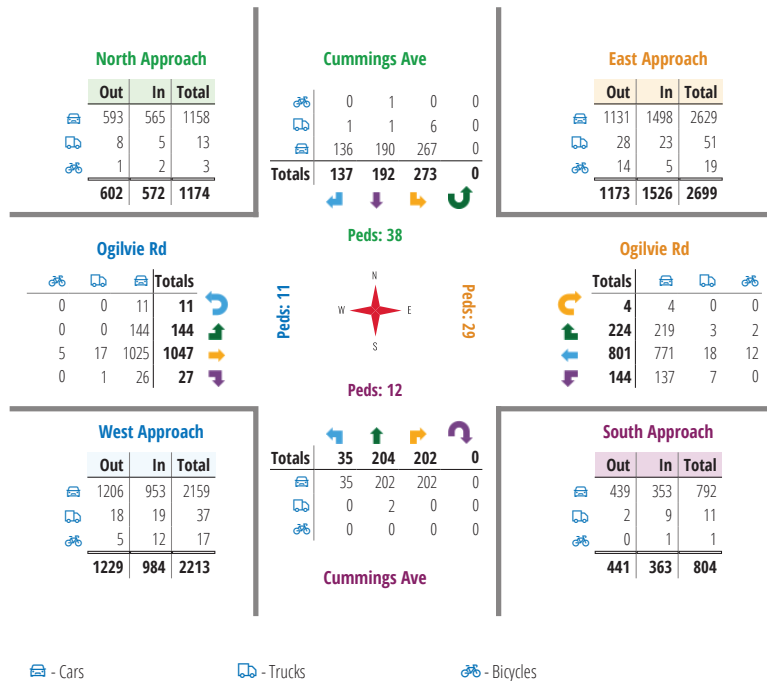
**Specified Period**      **One Hour Peak**  
 From: 15:00:00      From: 16:00:00  
 To: 18:00:00      To: 17:00:00

**Intersection:** Ogilvie Rd & Cummings Ave  
**Site Code:** 2335200001  
**Count Date:** Oct 31, 2023

**Weather conditions:** Clear

**\*\* Signalized Intersection \*\***

**Major Road:** Ogilvie Rd runs E/W



**Comments**



## Peak Hour Summary

**Intersection:** Ogilvie Rd & Cummings Ave  
**Site Code:** 2335200001  
**Count Date:** Oct 31, 2023  
**Period:** 15:00 - 18:00

### Peak Hour Data (16:00 - 17:00)

Start Time	North Approach Cummings Ave				South Approach Cummings Ave				East Approach Ogilvie Rd				West Approach Ogilvie Rd				Total Vehicles									
	Cars	Trucks	Bicycles	Peds	Total	Cars	Trucks	Bicycles	Peds	Total	Cars	Trucks	Bicycles	Peds	Total	Cars		Trucks	Bicycles	Peds	Total					
16:00	63	48	32	0	4	143	9	48	52	0	1	109	39	220	57	2	6	318	35	255	7	0	1	297	867	
16:15	77	50	36	0	20	163	10	56	50	0	7	116	40	193	49	1	9	283	30	227	6	5	7	268	830	
16:30	55	46	32	0	7	133	7	43	54	0	3	104	33	202	64	0	10	299	45	299	5	3	2	352	888	
16:45	78	48	37	0	7	163	9	57	46	0	1	112	32	186	54	1	4	273	34	266	9	3	1	312	860	
<b>Grand Total</b>	<b>273</b>	<b>192</b>	<b>137</b>	<b>0</b>	<b>38</b>	<b>602</b>	<b>35</b>	<b>204</b>	<b>202</b>	<b>0</b>	<b>12</b>	<b>441</b>	<b>144</b>	<b>801</b>	<b>224</b>	<b>4</b>	<b>29</b>	<b>1173</b>	<b>144</b>	<b>1047</b>	<b>27</b>	<b>11</b>	<b>11</b>	<b>1229</b>	<b>3445</b>	
<b>Approach %</b>	45.3	31.9	22.8	0	-	-	7.9	46.3	45.8	0	-	-	12.3	68.3	19.1	0.3	-	-	11.7	85.2	2.2	0.9	-	-	-	-
<b>Totals %</b>	7.9	5.6	4	0	17.5	1	5.9	5.9	0	12.8	4.2	23.3	6.5	0.1	34	4.2	30.4	0.8	0.3	35.7	-	-	-	-	-	
<b>PHF</b>	<b>0.88</b>	<b>0.96</b>	<b>0.93</b>	<b>0</b>	<b>0.92</b>	<b>0.88</b>	<b>0.89</b>	<b>0.94</b>	<b>0</b>	<b>0.95</b>	<b>0.9</b>	<b>0.91</b>	<b>0.88</b>	<b>0.5</b>	<b>0.92</b>	<b>0.8</b>	<b>0.88</b>	<b>0.75</b>	<b>0.55</b>	<b>0.87</b>	<b>0.97</b>	-	-	-	-	
<b>Cars</b>	267	190	136	0	593	35	202	202	0	439	137	771	219	4	1131	144	1025	26	11	1206	3369	-	-	-	-	
<b>% Cars</b>	97.8	99	99.3	0	98.5	100	99	100	0	99.5	95.1	96.3	97.8	100	96.4	100	97.9	96.3	100	98.1	97.8	-	-	-	-	
<b>Trucks</b>	6	1	1	0	8	0	2	0	0	2	7	18	3	0	28	0	17	1	0	18	56	-	-	-	-	
<b>% Trucks</b>	2.2	0.5	0.7	0	1.3	0	1	0	0	0.5	4.9	2.2	1.3	0	2.4	0	1.6	3.7	0	1.5	1.6	-	-	-	-	
<b>Bicycles</b>	0	1	0	0	1	0	0	0	0	0	0	12	2	0	14	0	5	0	0	5	20	-	-	-	-	
<b>% Bicycles</b>	0	0.5	0	0	0.2	0	0	0	0	0	0	1.5	0.9	0	1.2	0	0.5	0	0	0.4	0.6	-	-	-	-	
<b>Peds</b>	0	0	0	0	38	-	-	-	-	12	-	-	-	29	-	-	-	-	11	-	90	-	-	-	-	
<b>% Peds</b>	0	0	0	0	42.2	-	-	-	-	13.3	-	-	-	32.2	-	-	-	-	12.2	-	-	-	-	-	-	





# Transportation Services - Traffic Services

## Turning Movement Count - Study Results

### AVIATION PKWY @ OGILVIE RD

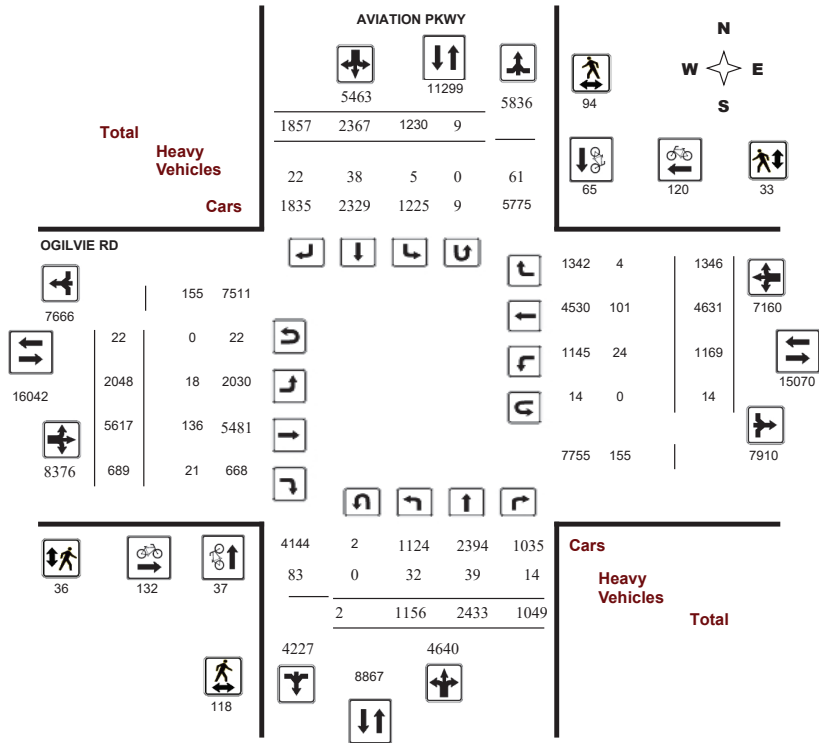
Survey Date: Thursday, September 28, 2023

WO No: 41205

Start Time: 07:00

Device: Miovision

#### Full Study Diagram



# Transportation Services - Traffic Services

## Turning Movement Count - Study Results

### AVIATION PKWY @ OGILVIE RD

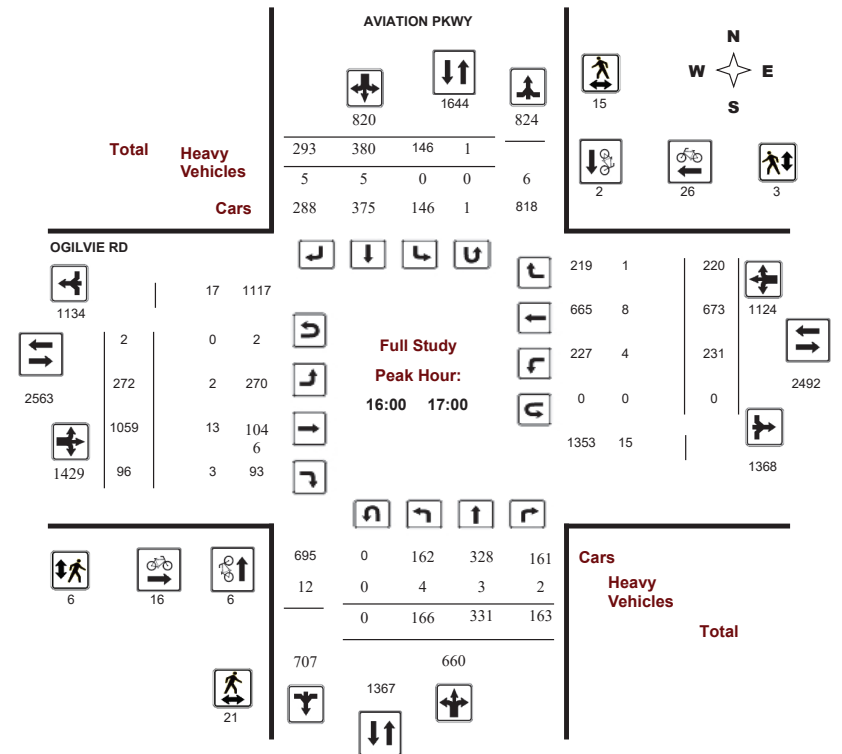
Survey Date: Thursday, September 28, 2023

WO No: 41205

Start Time: 07:00

Device: Miovision

#### Full Study Peak Hour Diagram





# Transportation Services - Traffic Services

## Turning Movement Count - Peak Hour Diagram

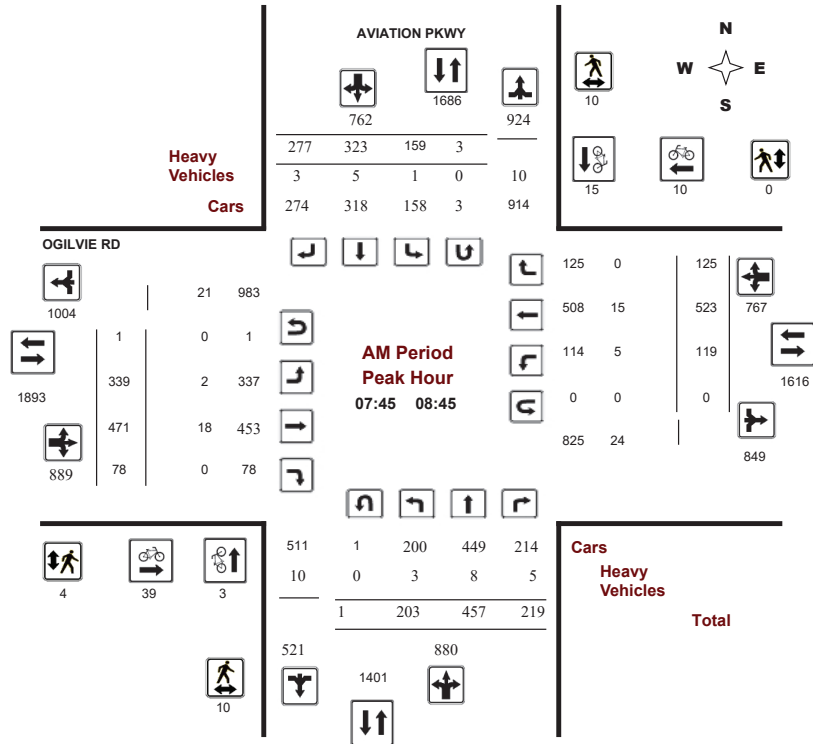
### AVIATION PKWY @ OGILVIE RD

Survey Date: Thursday, September 28, 2023

Start Time: 07:00

WO No: 41205

Device: Miovision



Comments



# Transportation Services - Traffic Services

## Turning Movement Count - Peak Hour Diagram

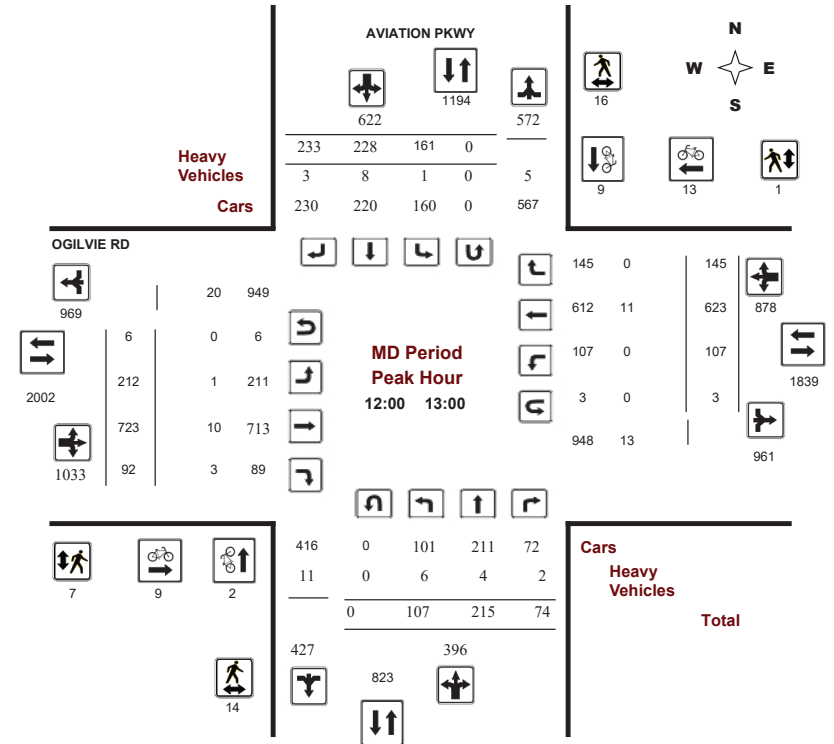
### AVIATION PKWY @ OGILVIE RD

Survey Date: Thursday, September 28, 2023

Start Time: 07:00

WO No: 41205

Device: Miovision



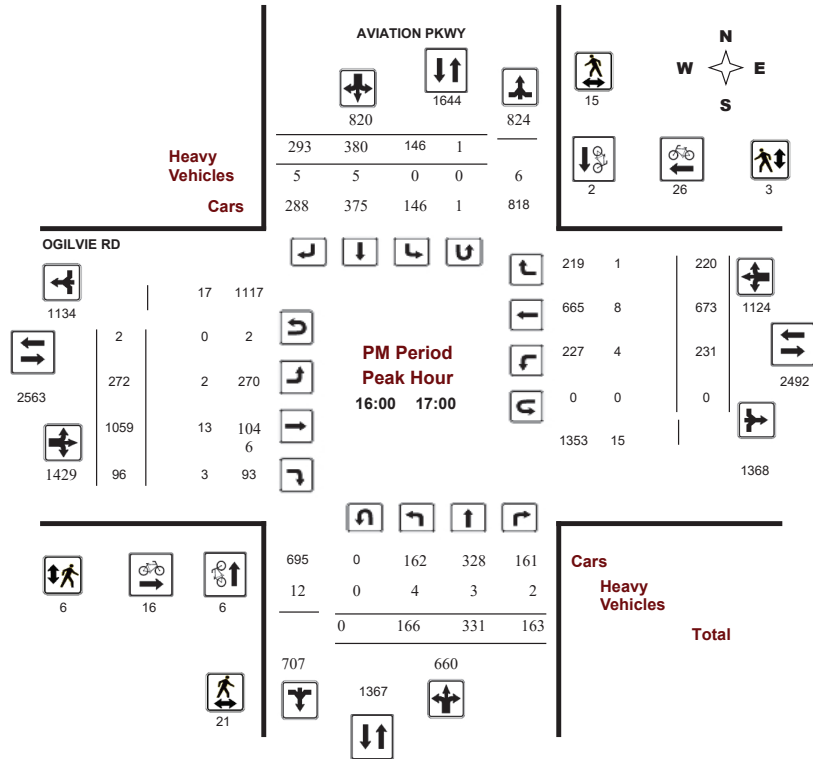
Comments



**Transportation Services - Traffic Services**  
**Turning Movement Count - Peak Hour Diagram**  
**AVIATION PKWY @ OGILVIE RD**

**Survey Date:** Thursday, September 28, 2023  
**Start Time:** 07:00

**WO No:** 41205  
**Device:** Miovision



**Comments**



**Transportation Services - Traffic Services**  
**Turning Movement Count - Study Results**  
**AVIATION PKWY @ OGILVIE RD**

**Survey Date:** Thursday, September 28, 2023  
**Start Time:** 07:00

**WO No:** 41205  
**Device:** Miovision

**Full Study Summary (8 HR Standard)**

**Survey Date:** Thursday, September 28, 2023  
**Total Observed U-Turns:** Northbound: 2, Southbound: 9, Eastbound: 22, Westbound: 14  
**AADT Factor:** 1.00

Period	AVIATION PKWY								OGILVIE RD								WB TOT	STR TOT	Grand Total			
	Northbound				Southbound				Eastbound				Westbound									
	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT				STR TOT		
07:00-08:00	150	404	186	740	122	247	205	574	1314	317	321	67	705	107	409	116	632	1337	2651			
08:00-09:00	200	416	204	820	175	306	242	723	1543	320	510	67	897	109	540	137	786	1683	3226			
09:00-10:00	134	257	105	496	148	238	176	562	1058	229	479	62	770	93	490	102	685	1455	2513			
11:30-12:30	110	204	85	399	158	223	246	627	1026	199	724	77	1000	105	624	156	885	1885	2911			
12:30-13:30	108	230	74	412	135	227	206	568	980	224	665	87	976	111	559	155	825	1801	2781			
15:00-16:00	152	324	94	570	191	427	294	912	1482	240	892	110	1242	232	732	262	1226	2468	3950			
16:00-17:00	166	331	163	660	146	380	293	819	1479	272	1059	96	1427	231	673	220	1124	2551	4030			
17:00-18:00	136	267	138	541	155	319	195	669	1210	247	967	123	1337	181	604	198	983	2320	3530			
<b>Sub Total</b>	1156	2433	1049	4638	1230	2367	1857	5454	10092	2048	5617	689	8354	1169	4631	1346	7146	15500	25592			
<b>U Turns</b>	2								9				11				22		14		36	47
<b>Total</b>	1156	2433	1049	4640	1230	2367	1857	5463	10103	2048	5617	689	8376	1169	4631	1346	7160	15536	25639			
<b>EQ 12Hr</b>	1607	3382	1458	6450	1710	3290	2581	7594	14043	2847	7808	958	11643	1625	6437	1871	9952	21595	35638			
Note:	These values are calculated by multiplying the totals by the appropriate expansion factor.																1.39					
<b>AVG 12Hr</b>	1607	3382	1458	6450	1710	4310	3381	7594	14043	2847	7808	958	11643	1625	6437	1871	9952	21595	35638			
Note:	These volumes are calculated by multiplying the Equivalent 12 hr. totals by the AADT factor.																1.00					
<b>AVG 24Hr</b>	2105	4430	1910	8450	2240	5646	4429	9948	18396	3730	10228	1255	15252	2129	8432	2451	13037	28289	46686			
Note:	These volumes are calculated by multiplying the Average Daily 12 hr. totals by 12 to 24 expansion factor.																1.31					
Note:	U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.																					



Transportation Services - Traffic Services

Turning Movement Count - Study Results

AVIATION PKWY @ OGILVIE RD

Survey Date: Thursday, September 28, 2023

WO No: 41205

Start Time: 07:00

Device: Miovision

Full Study 15 Minute Increments

Table with columns for Time Period, Northbound, Southbound, Eastbound, Westbound, and Grand Total. Rows show 15-minute intervals from 07:00 to 17:45.

Note: U-Turns are included in Totals.



Transportation Services - Traffic Services

Turning Movement Count - Study Results

AVIATION PKWY @ OGILVIE RD

Survey Date: Thursday, September 28, 2023

WO No: 41205

Start Time: 07:00

Device: Miovision

Full Study Cyclist Volume

Table with columns for Time Period, Northbound, Southbound, Street Total, Eastbound, Westbound, Street Total, and Grand Total. Rows show 15-minute intervals from 07:00 to 17:45.



Transportation Services - Traffic Services

Turning Movement Count - Study Results

AVIATION PKWY @ OGILVIE RD

Survey Date: Thursday, September 28, 2023

WO No: 41205

Start Time: 07:00

Device: Miovision

Full Study Pedestrian Volume

AVIATION PKWY

OGILVIE RD

Table with columns: Time Period, NB Approach (E or W Crossing), SB Approach (E or W Crossing), Total, EB Approach (N or S Crossing), WB Approach (N or S Crossing), Total, Grand Total. Rows show pedestrian counts for various time intervals from 07:00 to 18:00.



Transportation Services - Traffic Services

Turning Movement Count - Study Results

AVIATION PKWY @ OGILVIE RD

Survey Date: Thursday, September 28, 2023

WO No: 41205

Start Time: 07:00

Device: Miovision

Full Study Heavy Vehicles

AVIATION PKWY

OGILVIE RD

Table with columns: Time Period, Northbound (LT, ST, RT, N TOT), Southbound (LT, ST, RT, S TOT, STR TOT), Eastbound (LT, ST, RT, E TOT), Westbound (LT, ST, RT, W TOT, STR TOT), Grand Total. Rows show heavy vehicle counts for various time intervals from 07:00 to 18:00.



Transportation Services - Traffic Services

Turning Movement Count - Study Results

AVIATION PKWY @ OGILVIE RD

Survey Date: Thursday, September 28, 2023

WO No: 41205

Start Time: 07:00

Device: Miovision

Full Study 15 Minute U-Turn Total  
AVIATION PKWY OGILVIE RD

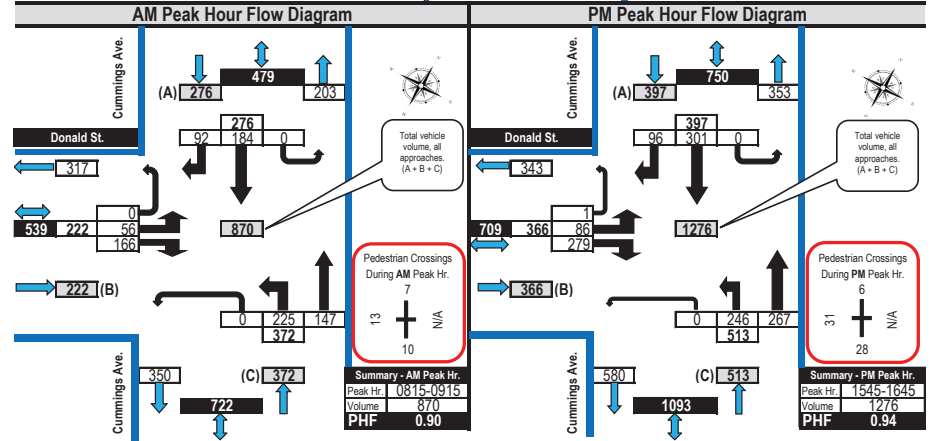
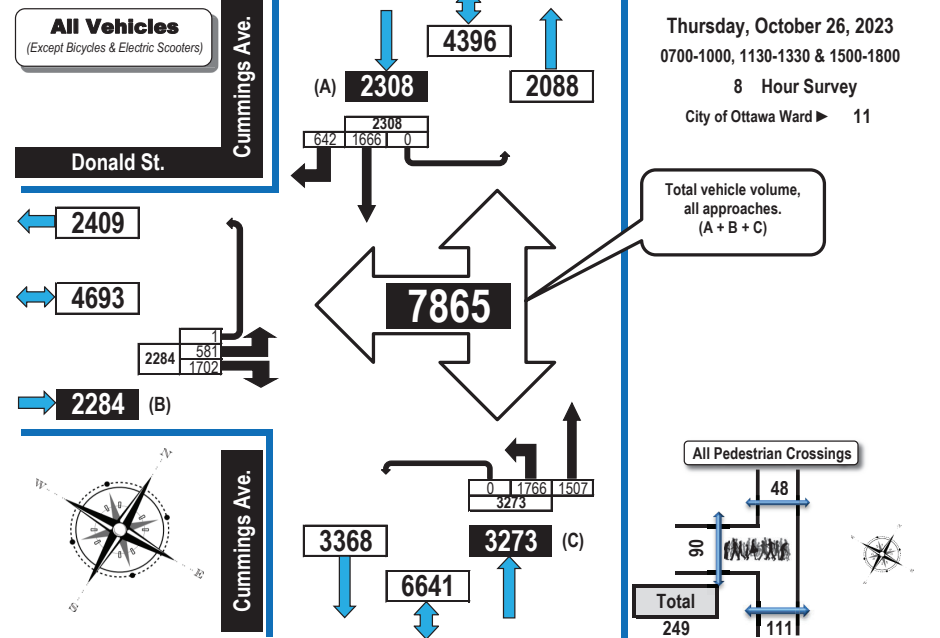
Time Period	Northbound U-Turn Total	Southbound U-Turn Total	Eastbound U-Turn Total	Westbound U-Turn Total	Total
07:00 - 07:15	0	0	0	0	0
07:15 - 07:30	0	0	0	0	0
07:30 - 07:45	0	0	1	1	2
07:45 - 08:00	1	0	0	0	1
08:00 - 08:15	0	1	0	0	1
08:15 - 08:30	0	1	1	0	2
08:30 - 08:45	0	1	0	0	1
08:45 - 09:00	0	0	0	0	0
09:00 - 09:15	0	0	1	1	2
09:15 - 09:30	0	0	0	0	0
09:30 - 09:45	0	0	0	1	1
09:45 - 10:00	0	0	0	1	1
11:30 - 11:45	0	0	0	0	0
11:45 - 12:00	0	1	0	0	1
12:00 - 12:15	0	0	2	0	2
12:15 - 12:30	0	0	3	1	4
12:30 - 12:45	0	0	0	1	1
12:45 - 13:00	0	0	1	1	2
13:00 - 13:15	0	0	1	1	2
13:15 - 13:30	0	0	0	0	0
15:00 - 15:15	0	0	1	1	2
15:15 - 15:30	0	2	1	1	4
15:30 - 15:45	0	0	1	1	2
15:45 - 16:00	0	1	0	0	1
16:00 - 16:15	0	0	1	0	1
16:15 - 16:30	0	0	1	0	1
16:30 - 16:45	0	1	0	0	1
16:45 - 17:00	0	0	0	0	0
17:00 - 17:15	0	0	0	0	0
17:15 - 17:30	0	0	5	1	6
17:30 - 17:45	0	1	0	0	1
17:45 - 18:00	1	0	2	2	5
<b>Total</b>	<b>2</b>	<b>9</b>	<b>22</b>	<b>14</b>	<b>47</b>



Turning Movement Count  
Summary, AM and PM Peak Hour  
Flow Diagrams  
All Vehicles Except Bicycles



Cummings Avenue & Donald Street Ottawa, ON

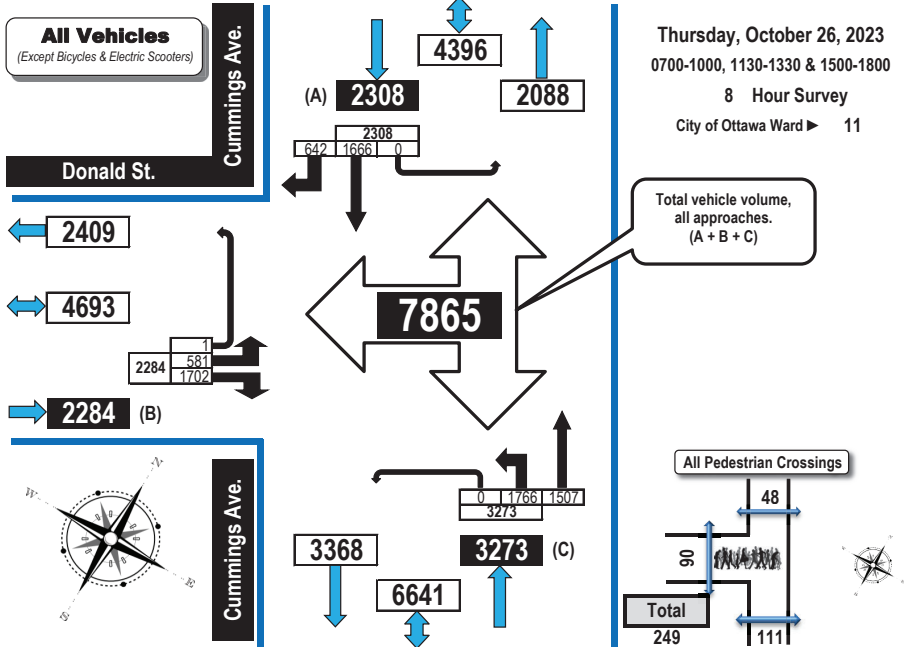




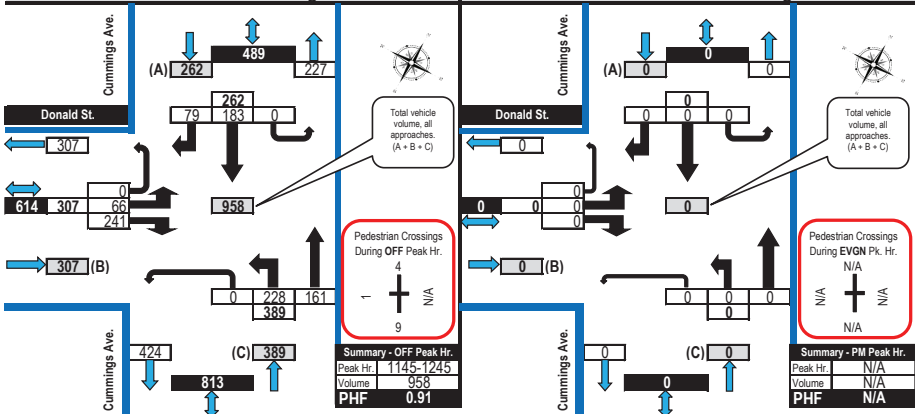
## Turning Movement Count Summary, OFF and EVGN Peak Hour Flow Diagrams All Vehicles Except Bicycles



### Cummings Avenue & Donald Street Ottawa, ON



### OFF Peak Hour Flow Diagram EVENING Peak Hour Flow Diagram



## Turning Movement Count Summary Report Including Peak Hours, AADT and Expansion Factors All Vehicles Except Bicycles



### Cummings Avenue & Donald Street Ottawa, ON

Survey Date: Thursday, October 26, 2023      Start Time: 0700      AADT Factor: 0.9  
 Weather AM: Overcast 14° C      Survey Duration: 8 Hrs.      Survey Hours: 0700-1000, 1130-1330 & 1500-1800  
 Weather PM: Overcast 17° C      Surveyor(s): T. Carmody

Time Period	Donald St.					N/A					Cummings Ave.					Cummings Ave.					
	Eastbound					Westbound					Northbound					Southbound					
	LT	ST	RT	UT	W/B Tot	LT	ST	RT	UT	W/B Tot	LT	ST	RT	UT	N/B Tot	LT	ST	RT	UT	S/B Tot	Street Total
0700-0800	42	104	0	146						146	107	114	0	221		202	47	0	249	470	616
0800-0900	54	160	0	214						214	224	154	0	378		186	89	0	275	653	867
0900-1000	60	180	0	240						240	202	124	0	326		177	79	0	256	582	822
1130-1230	57	236	0	293						293	231	156	0	387		175	82	0	257	644	937
1230-1330	72	228	0	300						300	201	172	0	373		150	82	0	232	605	905
1500-1600	87	268	0	355						355	287	241	0	528		242	92	0	334	862	1217
1600-1700	89	269	1	359						359	227	284	0	511		285	92	0	377	888	1247
1700-1800	120	257	0	377						377	287	262	0	549		249	79	0	328	877	1254
<b>Totals</b>	<b>581</b>	<b>1702</b>	<b>1</b>	<b>2284</b>						<b>2284</b>	<b>1766</b>	<b>1507</b>	<b>0</b>	<b>3273</b>		<b>1666</b>	<b>642</b>	<b>0</b>	<b>2308</b>	<b>5581</b>	<b>7865</b>

**Equivalent 12 & 24-hour Vehicle Volumes Including the Annual Average Daily Traffic (AADT) Factor**  
**Applicable to the Day and Month of the Turning Movement Count**  
**Expansion factors are applied exclusively to standard weekday 8-hour turning movement counts**  
**conducted during the hours of 0700h - 1000h, 1130h - 1330h and 1500h - 1800h**

Equivalent 12-hour vehicle volumes. These volumes are calculated by multiplying the 8-hour totals by the 8 → 12 expansion factor of 1.39

Equ. 12 Hr	808	0	2366	1	3175	0	0	0	0	0	3175	2455	2095	0	0	4549	0	2316	892	0	3208	7758	10932
------------	-----	---	------	---	------	---	---	---	---	---	------	------	------	---	---	------	---	------	-----	---	------	------	-------

Average daily 12-hour vehicle volumes. These volumes are calculated by multiplying the equivalent 12-hour totals by the AADT factor of 0.9

AADT 12-hr	727	0	2129	1	2857	0	0	0	0	0	2857	2209	1885	0	0	4095	0	2084	803	0	2887	6982	9839
------------	-----	---	------	---	------	---	---	---	---	---	------	------	------	---	---	------	---	------	-----	---	------	------	------

24-Hour AADT. These volumes are calculated by multiplying the average daily 12-hour vehicle volumes by the 12 → 24 expansion factor of 1.31

AADT 24 Hr	952	0	2789	2	3743	0	0	0	0	0	3743	2894	2470	0	0	5364	0	2730	1052	0	3782	9146	12889
------------	-----	---	------	---	------	---	---	---	---	---	------	------	------	---	---	------	---	------	------	---	------	------	-------

#### AADT and expansion factors provided by the City of Ottawa

AM Peak Hour Factor	0.91					Highest Hourly Vehicle Volume Between 0700h & 1000h													
AM Peak Hr	LT	ST	RT	UT	Total	Str. Tot.	LT	ST	RT	UT	Total	LT	ST	RT	UT	Total	Str. Tot.	Gr. Tot.	
0815-0915	56	0	166	0	222	0	222	225	147	0	0	372	0	184	92	0	276	648	870
OFF Peak Hour Factor	0.90					Highest Hourly Vehicle Volume Between 1130h & 1330h													
OFF Peak Hr	LT	ST	RT	UT	Total	Str. Tot.	LT	ST	RT	UT	Total	LT	ST	RT	UT	Total	Str. Tot.	Gr. Tot.	
1145-1245	66	0	241	0	307	0	307	228	161	0	0	389	0	183	79	0	262	651	958
PM Peak Hour Factor	0.94					Highest Hourly Vehicle Volume Between 1500h & 1800h													
PM Peak Hr	LT	ST	RT	UT	Total	Str. Tot.	LT	ST	RT	UT	Total	LT	ST	RT	UT	Total	Str. Tot.	Gr. Tot.	
1545-1645	86	0	279	1	366	0	366	246	267	0	0	513	0	301	96	0	397	910	1276

**Comments:**

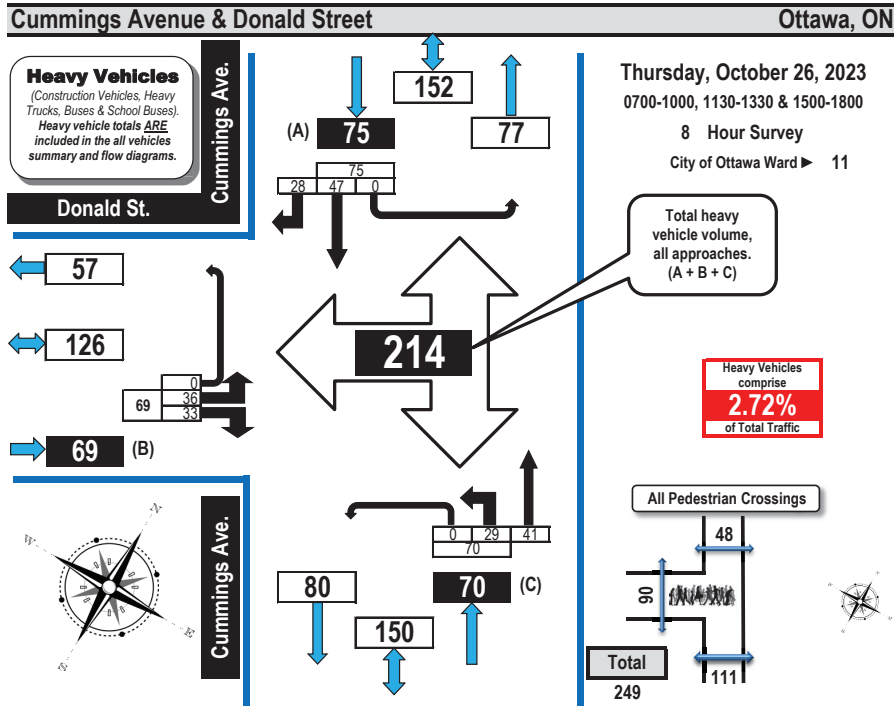
OC Transpo and Para Transpo buses, private buses and school buses comprise 44.86% of the heavy vehicle traffic.

**Notes:**

1. Includes all vehicle types except bicycles, electric bicycles, and electric scooters.
2. When expansion and AADT factors are applied, the results will differ slightly due to rounding.



## Turning Movement Count Heavy Vehicle Summary (FHWA Class 4 to 13) Flow Diagram

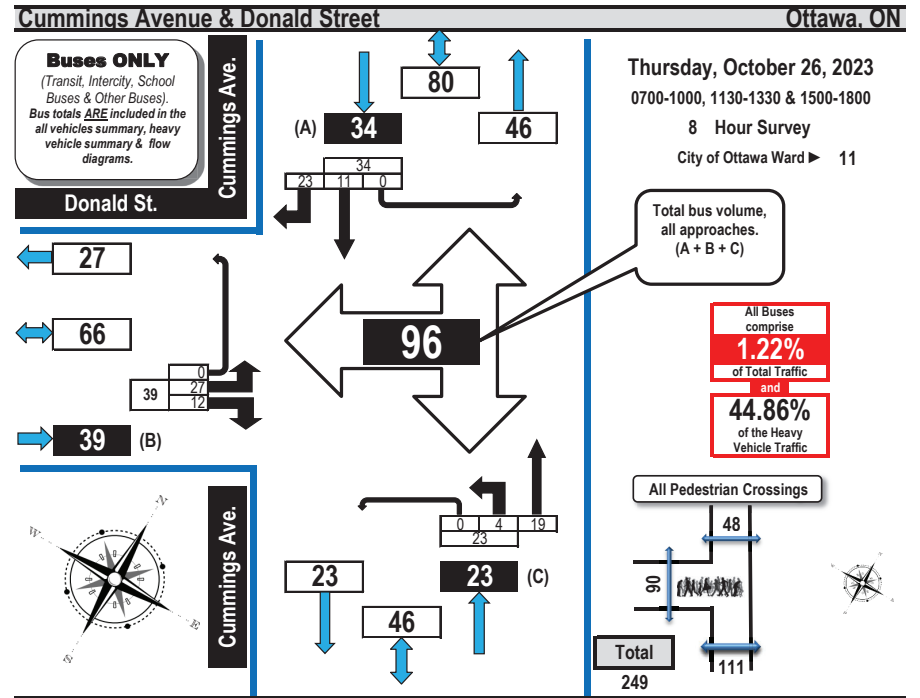


Time Period	Donald St.					N/A					Cummings Ave.					Cummings Ave.					GR Tot
	Eastbound		Westbound			Westbound		Northbound			Northbound		Southbound			Southbound					
	LT	ST	RT	UT	EB Tot	LT	ST	RT	UT	WB Tot	LT	ST	RT	UT	NB Tot	LT	ST	RT	UT	SB Tot	
0700-0800	6		3	0	9						8	5		0	13	4	5	0	9	31	
0800-0900	2		7	0	9						5	8		0	13	3	6	0	9	31	
0900-1000	5		2	0	7						3	8		0	11	10	4	0	14	32	
1130-1230	5		4	0	9						3	4		0	7	5	3	0	8	24	
1230-1330	3		5	0	8						3	0		0	3	8	2	0	10	21	
1500-1600	5		3	0	8						2	6		0	8	8	3	0	11	27	
1600-1700	5		7	0	12						4	7		0	11	7	3	0	10	33	
1700-1800	5		2	0	7						1	3		0	4	2	2	0	4	15	
<b>Totals</b>	<b>36</b>		<b>33</b>	<b>0</b>	<b>69</b>						<b>29</b>	<b>41</b>		<b>0</b>	<b>70</b>	<b>47</b>	<b>28</b>	<b>0</b>	<b>75</b>	<b>214</b>	

Comments:  
OC Transpo and Para Transpo buses, private buses and school buses comprise 44.86% of the heavy vehicle traffic.



## Turning Movement Count All Buses Summary (FHWA Class 4 ONLY) Flow Diagram



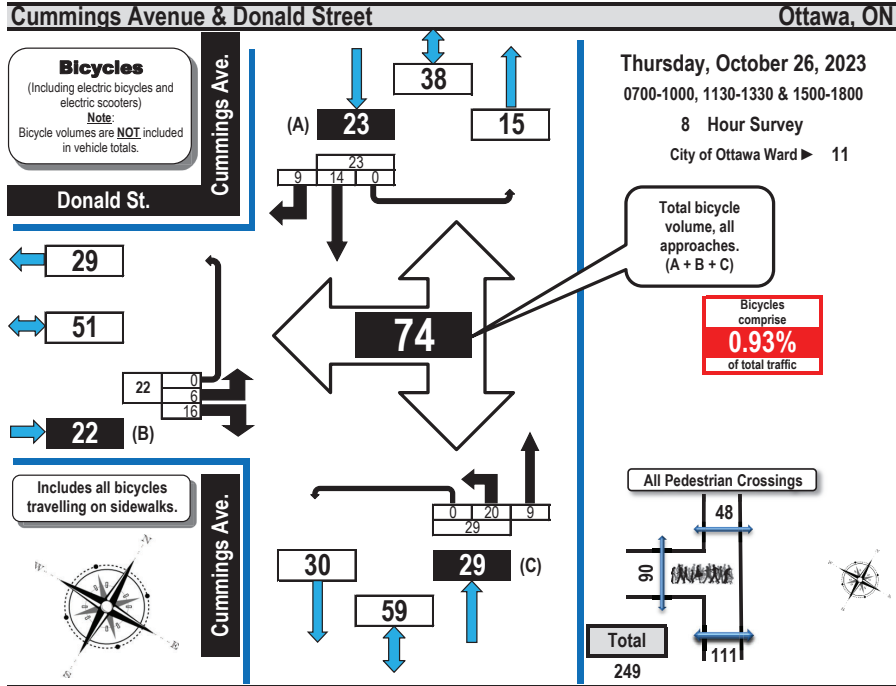
Time Period	Donald St.					N/A					Cummings Ave.					Cummings Ave.					GR Tot
	Eastbound		Westbound			Westbound		Northbound			Northbound		Southbound			Southbound					
	LT	ST	RT	UT	EB Tot	LT	ST	RT	UT	WB Tot	LT	ST	RT	UT	NB Tot	LT	ST	RT	UT	SB Tot	
0700-0800	5		1	0	6						3	3		0	6	1	4	0	5	17	
0800-0900	2		5	0	7						0	3		0	3	0	4	0	4	14	
0900-1000	2		1	0	3						0	1		0	1	4	3	0	7	11	
1130-1230	4		0	0	4						0	1		0	1	0	3	0	3	8	
1230-1330	2		1	0	3						0	0		0	0	2	2	0	4	7	
1500-1600	4		2	0	6						1	5		0	6	2	3	0	5	17	
1600-1700	4		2	0	6						0	6		0	6	1	2	0	3	15	
1700-1800	4		0	0	4						0	0		0	0	1	2	0	3	7	
<b>Totals</b>	<b>27</b>		<b>12</b>	<b>0</b>	<b>39</b>						<b>4</b>	<b>19</b>		<b>0</b>	<b>23</b>	<b>11</b>	<b>23</b>	<b>0</b>	<b>34</b>	<b>96</b>	

Comments:  
OC Transpo and Para Transpo buses, private buses and school buses comprise 44.86% of the heavy vehicle traffic.





## Turning Movement Count Bicycle Summary Flow Diagram

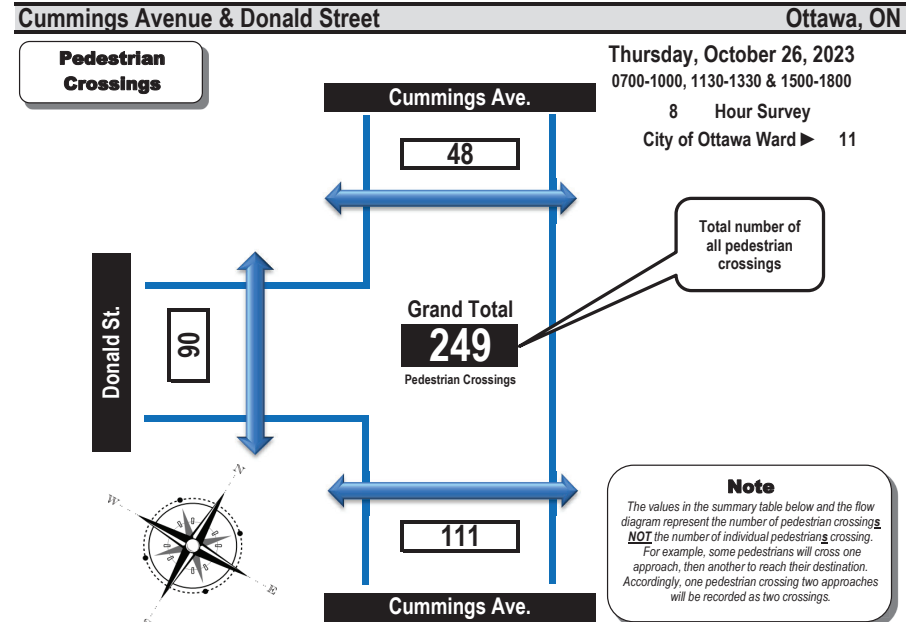


Time Period	Donald St.				N/A				Cummings Ave.				Cummings Ave.				GR Tot	
	Eastbound		Westbound		Northbound		Southbound		Eastbound		Westbound		Northbound		Southbound			
	LT	ST	RT	UT	LT	ST	RT	UT	LT	ST	RT	UT	LT	ST	RT	UT		
0700-0800	0		6	0	6				3	0		0	3	4	0	0	4	13
0800-0900	1		4	0	5				3	0		0	3	4	1	0	5	13
0900-1000	0		0	0	0				1	2		0	3	1	1	0	2	5
1130-1230	0		0	0	0				0	2		0	2	1	3	0	4	6
1230-1330	0		0	0	0				0	1		0	1	0	1	0	1	2
1500-1600	1		3	0	4				3	1		0	4	2	0	0	2	10
1600-1700	3		3	0	6				4	3		0	7	0	2	0	2	15
1700-1800	1		0	0	1				6	0		0	6	2	1	0	3	10
<b>Totals</b>	<b>6</b>		<b>16</b>	<b>0</b>	<b>22</b>				<b>20</b>	<b>9</b>		<b>0</b>	<b>29</b>	<b>14</b>	<b>9</b>	<b>0</b>	<b>23</b>	<b>74</b>

Comments:  
OC Transpo and Para Transpo buses, private buses and school buses comprise 44.86% of the heavy vehicle traffic.



## Turning Movement Count Pedestrian Crossings Summary and Flow Diagram



Time Period	West Side Crossing Donald St.	East Side Crossing N/A	Street Total	South Side Crossing Cummings Ave.	North Side Crossing Cummings Ave.	Street Total	Grand Total
0700-0800	6		6	3	5	8	14
0800-0900	11		11	8	6	14	25
0900-1000	5		5	11	5	16	21
1130-1230	7		7	7	2	9	16
1230-1330	8		8	12	3	15	23
1500-1600	20		20	21	9	30	50
1600-1700	24		24	28	6	34	58
1700-1800	9		9	21	12	33	42
<b>Totals</b>	<b>90</b>		<b>90</b>	<b>111</b>	<b>48</b>	<b>159</b>	<b>249</b>

Comments:  
OC Transpo and Para Transpo buses, private buses and school buses comprise 44.86% of the heavy vehicle traffic.



## Turning Movement Count Summary Report Including Peak Hours, AADT and Expansion Factors All Vehicles Except Bicycles



### Cummings Avenue/Labelle Street & Cyrville Road Ottawa, ON

Survey Date: Thursday, October 26, 2023      Start Time: 0700      AADT Factor: 0.9  
 Weather AM: Overcast 14° C      Survey Duration: 8 Hrs.      Survey Hours: 0700-1000, 1130-1330 & 1500-1800  
 Weather PM: Overcast 17° C      Surveyor(s): T. Carmody

Time Period	Cyrville Rd. Eastbound				Cyrville Rd. Westbound				Labelle St. Northbound				Cummings Ave. Southbound				Street Total	Grand Total					
	LT	ST	RT	UT	LT	ST	RT	UT	LT	ST	RT	UT	LT	ST	RT	UT							
	E/B Tot				W/B Tot				Street Total				S/B Tot										
0700-0800	11	155	24	0	190	71	228	106	0	405	595	1	8	31	0	40	113	21	8	0	142	182	777
0800-0900	20	205	39	0	264	104	359	155	0	618	882	6	14	26	0	46	125	43	21	0	189	235	1117
0900-1000	17	210	25	0	252	40	227	152	0	419	671	1	16	29	0	46	155	20	18	0	193	239	910
1130-1230	48	295	21	0	364	54	244	203	0	501	865	11	28	41	0	80	180	37	30	0	247	327	1192
1230-1330	46	315	19	0	380	45	223	188	0	456	836	8	16	22	0	46	180	37	35	0	252	298	1134
1500-1600	71	404	13	0	488	72	238	229	0	539	1027	7	45	45	0	97	223	42	27	0	292	389	1416
1600-1700	60	476	17	0	553	70	299	259	0	628	1181	10	52	68	0	130	215	46	32	0	293	423	1604
1700-1800	81	367	14	0	462	71	241	232	0	544	1006	3	23	29	0	55	168	27	18	0	213	268	1274
<b>Totals</b>	<b>354</b>	<b>2427</b>	<b>172</b>	<b>0</b>	<b>2953</b>	<b>527</b>	<b>2059</b>	<b>1524</b>	<b>0</b>	<b>4110</b>	<b>7063</b>	<b>47</b>	<b>202</b>	<b>291</b>	<b>0</b>	<b>540</b>	<b>1359</b>	<b>273</b>	<b>189</b>	<b>0</b>	<b>1821</b>	<b>2361</b>	<b>9424</b>

**Equivalent 12 & 24-hour Vehicle Volumes Including the Annual Average Daily Traffic (AADT) Factor**  
 Applicable to the Day and Month of the Turning Movement Count  
**Expansion factors are applied exclusively to standard weekday 8-hour turning movement counts conducted during the hours of 0700h - 1000h, 1130h - 1330h and 1500h - 1800h**

Equivalent 12-hour vehicle volumes. These volumes are calculated by multiplying the 8-hour totals by the 12 expansion factor of 1.39																							
Equ. 12 Hr	492	3374	239	0	4105	733	2862	2118	0	5713	9818	65	281	404	0	751	1889	379	263	0	2531	3282	13099

Average daily 12-hour vehicle volumes. These volumes are calculated by multiplying the equivalent 12-hour totals by the AADT factor of: 0.9																							
AADT 12-hr	443	3036	215	0	3694	659	2576	1907	0	5142	8836	59	253	364	0	676	1700	342	236	0	2278	2954	11789

24-Hour AADT. These volumes are calculated by multiplying the average daily 12-hour vehicle volumes by the 24 expansion factor of 1.31																							
AADT 24 Hr	580	3977	282	0	4839	864	3374	2498	0	6736	11575	77	331	477	0	885	2227	447	310	0	2984	3869	15444

#### AADT and expansion factors provided by the City of Ottawa

AM Peak Hour Factor → 0.91													Highest Hourly Vehicle Volume Between 0700h & 1000h												
AM Peak Hr	LT	ST	RT	UT	Total	Str. Tot.	Gr. Tot.	LT	ST	RT	UT	Total	Str. Tot.	Gr. Tot.	LT	ST	RT	UT	Total	Str. Tot.	Gr. Tot.				
0745-0845	21	201	37	0	259	111	367	158	0	636	895	5	13	31	0	49	127	41	20	0	188	237	1132		
OFF Peak Hour Factor → 0.95													Highest Hourly Vehicle Volume Between 1130h & 1330h												
OFF Peak Hr	LT	ST	RT	UT	Total	Str. Tot.	Gr. Tot.	LT	ST	RT	UT	Total	Str. Tot.	Gr. Tot.	LT	ST	RT	UT	Total	Str. Tot.	Gr. Tot.				
1200-1300	51	317	22	0	390	53	237	192	0	482	872	11	24	41	0	76	190	35	34	0	259	335	1207		
PM Peak Hour Factor → 0.96													Highest Hourly Vehicle Volume Between 1500h & 1800h												
PM Peak Hr	LT	ST	RT	UT	Total	Str. Tot.	Gr. Tot.	LT	ST	RT	UT	Total	Str. Tot.	Gr. Tot.	LT	ST	RT	UT	Total	Str. Tot.	Gr. Tot.				
1600-1700	60	476	17	0	553	70	299	259	0	628	1181	10	52	68	0	130	215	46	32	0	293	423	1604		

**Comments:**  
 OC Transpo and Para Transpo buses, private buses and school buses comprise 12.22% of the heavy vehicle traffic.

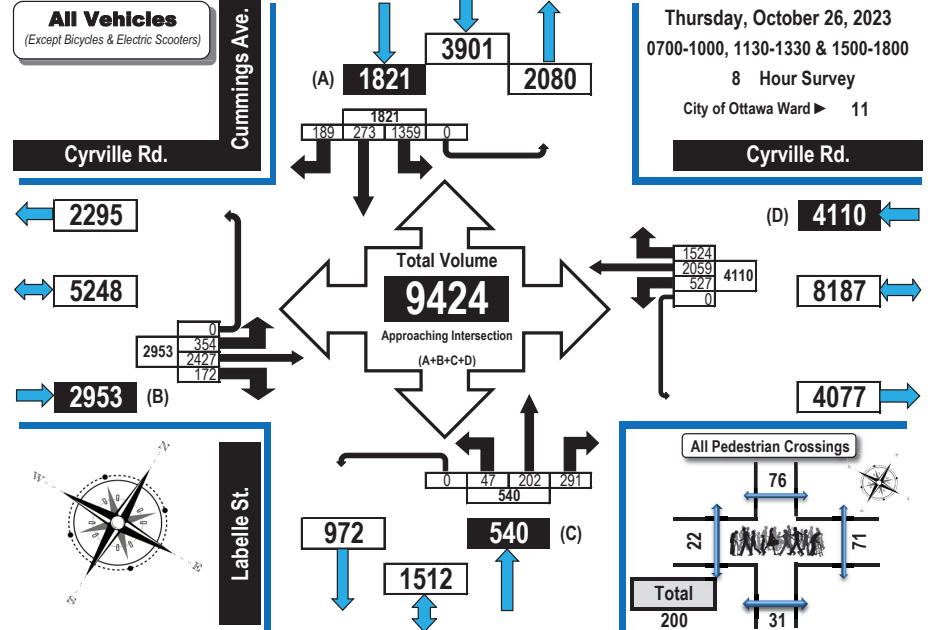
- Notes:**  
 1. Includes all vehicle types except bicycles, electric bicycles, and electric scooters.  
 2. When expansion and AADT factors are applied, the results will differ slightly due to rounding.



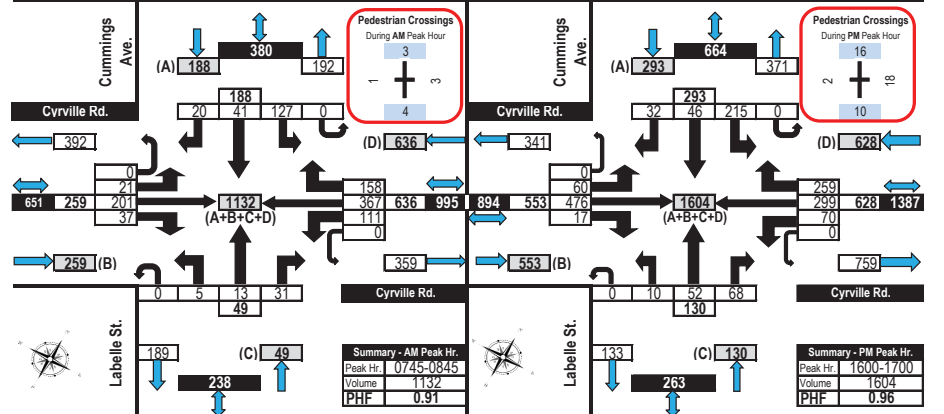
## Turning Movement Count Summary, AM and PM Peak Hour Flow Diagrams All Vehicles Except Bicycles



### Cummings Avenue/Labelle Street & Cyrville Road Ottawa, ON



#### AM Peak Hour Flow Diagram      PM Peak Hour Flow Diagram

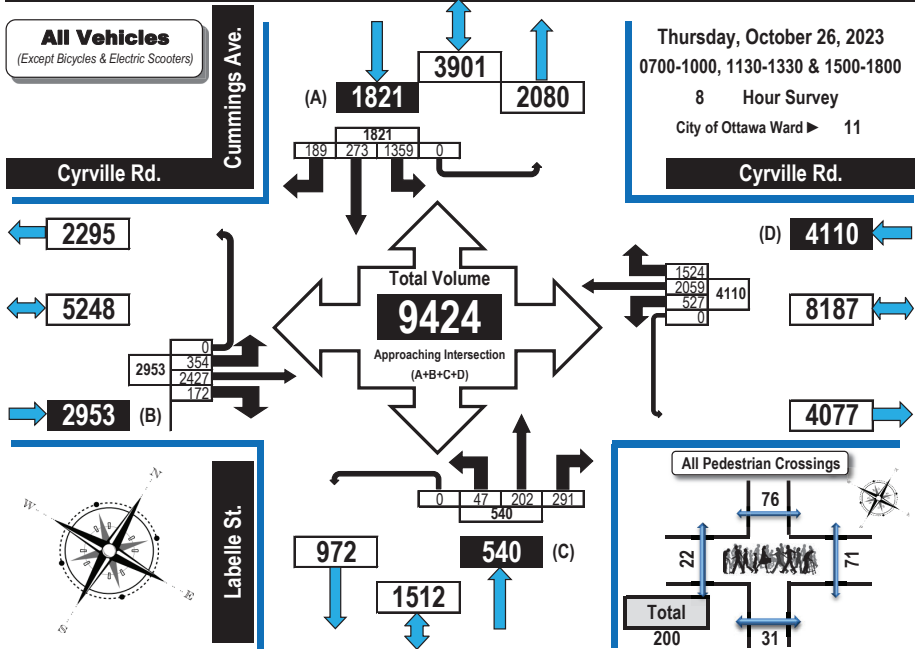




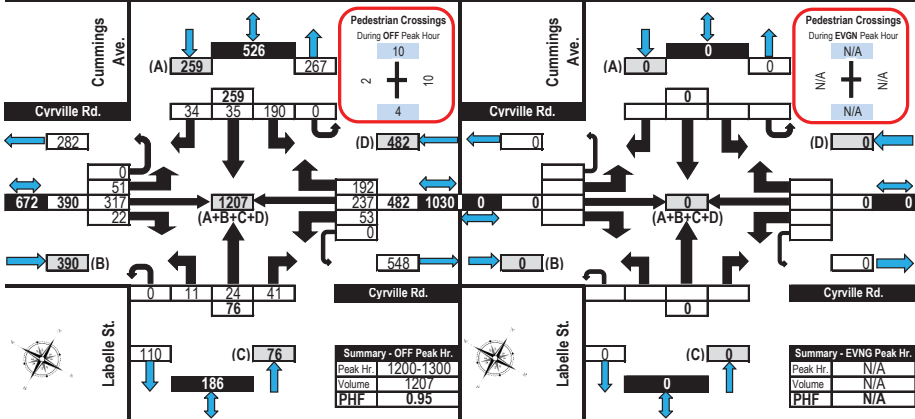
### Turning Movement Count Summary, OFF and EVENING Peak Hour Flow Diagrams All Vehicles Except Bicycles



#### Cummings Avenue/Labelle Street & Cyrville Road Ottawa, ON



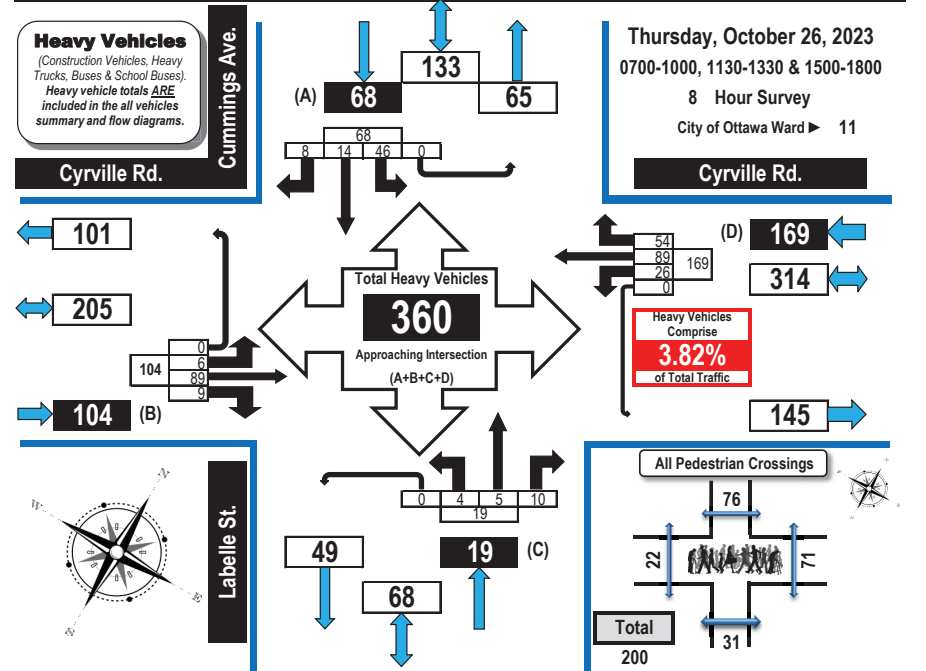
#### Off Peak Hour Flow Diagram      Evening Peak Hour Flow Diagram



### Turning Movement Count Heavy Vehicle Summary (FHWA Class 4-13) Flow Diagram



#### Cummings Avenue/Labelle Street & Cyrville Road Ottawa, ON



#### Cyrville Rd.      Cyrville Rd.      Labelle St.      Cummings Ave.

Time Period	Cyrville Rd. Eastbound				Cyrville Rd. Westbound				Labelle St. Northbound				Cummings Ave. Southbound				SB Tot	GR Tot			
	LT	ST	RT	UT	EB Tot	LT	ST	RT	UT	WB Tot	LT	ST	RT	UT	NB Tot	LT			ST	RT	UT
0700-0800	1	4	1	0	6	3	16	12	0	31	1	3	1	0	5	2	1	0	0	3	45
0800-0900	2	13	1	0	16	5	20	10	0	35	0	0	2	0	2	6	3	3	0	12	65
0900-1000	2	10	4	0	16	2	19	9	0	30	1	1	1	0	3	7	2	0	0	9	58
1130-1230	0	7	2	0	9	5	12	9	0	26	0	0	4	0	4	5	6	1	0	12	51
1230-1330	0	16	0	0	16	2	8	9	0	19	1	0	0	0	1	8	1	2	0	11	47
1500-1600	1	14	0	0	15	4	8	2	0	14	1	1	0	0	2	6	1	2	0	9	40
1600-1700	0	15	1	0	16	4	2	1	0	7	0	0	1	0	1	10	0	0	0	10	34
1700-1800	0	10	0	0	10	1	4	2	0	7	0	0	1	0	1	2	0	0	0	2	20
<b>Totals</b>	<b>6</b>	<b>89</b>	<b>9</b>	<b>0</b>	<b>104</b>	<b>26</b>	<b>89</b>	<b>54</b>	<b>0</b>	<b>169</b>	<b>4</b>	<b>5</b>	<b>10</b>	<b>0</b>	<b>19</b>	<b>46</b>	<b>14</b>	<b>8</b>	<b>0</b>	<b>68</b>	<b>360</b>

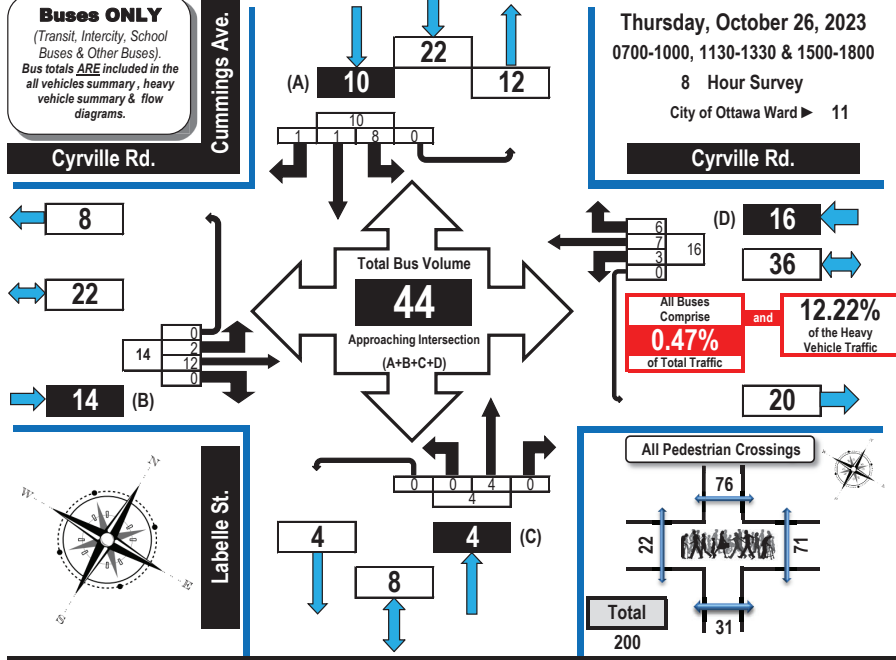
**Comments:**  
OC Transpo and Para Transpo buses, private buses and school buses comprise 12.22% of the heavy vehicle traffic.



### Turning Movement Count All Buses Summary (FHWA Class 4 ONLY) Flow Diagram



#### Cummings Avenue/Labelle Street & Cyrville Road Ottawa, ON



Time Period	Cyrville Rd. Eastbound				Cyrville Rd. Westbound				Labelle St. Northbound				Cummings Ave. Southbound				GR Tot				
	LT	ST	RT	UT	EB Tot	LT	ST	RT	UT	WB Tot	LT	ST	RT	UT	NB Tot	LT		ST	RT	UT	SB Tot
0700-0800	0	0	0	0	0	0	2	4	0	6	0	3	0	0	3	0	0	0	0	0	9
0800-0900	2	1	0	0	3	0	4	0	0	4	0	0	0	0	1	0	0	0	0	1	8
0900-1000	0	4	0	0	4	0	1	0	0	1	0	0	0	0	1	0	0	0	0	1	6
1130-1230	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	2
1230-1330	0	1	0	0	1	2	0	1	0	3	0	0	0	0	2	0	0	0	0	2	6
1500-1600	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	1	1	0	2	5
1600-1700	0	3	0	0	3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	6
1700-1800	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2
<b>Totals</b>	<b>2</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>3</b>	<b>7</b>	<b>6</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>8</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>10</b>	<b>44</b>

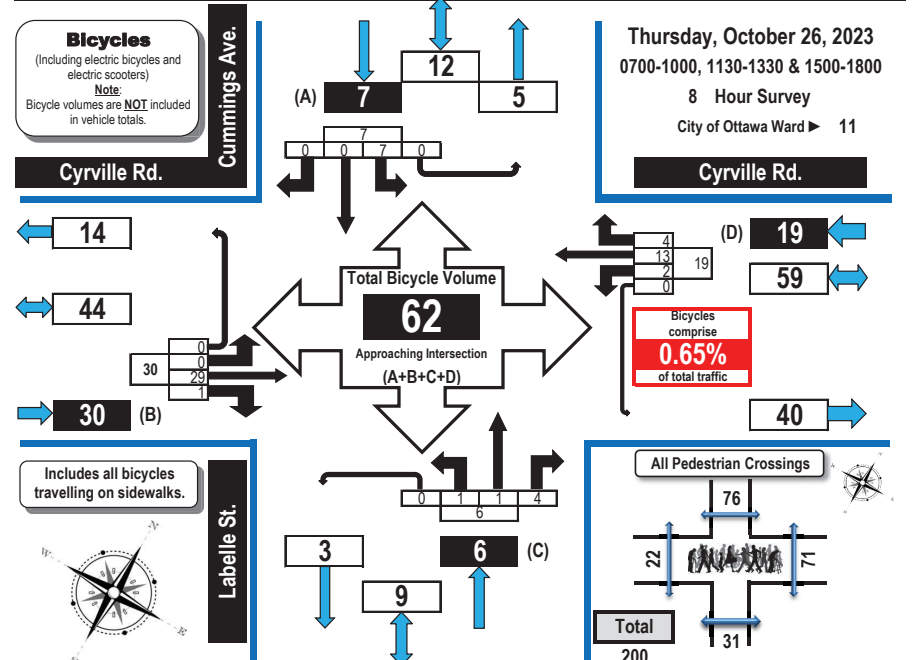
Comments:  
OC Transpo and Para Transpo buses, private buses and school buses comprise 12.22% of the heavy vehicle traffic.



### Turning Movement Count Bicycle Summary Flow Diagram



#### Cummings Avenue/Labelle Street & Cyrville Road Ottawa, ON



Time Period	Cyrville Rd. Eastbound				Cyrville Rd. Westbound				Labelle St. Northbound				Cummings Ave. Southbound				GR Tot					
	LT	ST	RT	UT	EB Tot	LT	ST	RT	UT	WB Tot	LT	ST	RT	UT	NB Tot	LT		ST	RT	UT	SB Tot	
0700-0800	0	4	1	0	5	1	0	0	0	1	0	0	1	0	1	1	0	0	0	1	8	
0800-0900	0	2	0	0	2	0	3	1	0	4	0	0	0	0	0	3	0	0	0	0	3	9
0900-1000	0	2	0	0	2	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	4	
1130-1230	0	4	0	0	4	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	5	
1230-1330	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2	
1500-1600	0	2	0	0	2	0	2	1	0	3	0	0	1	0	1	1	0	0	0	1	7	
1600-1700	0	12	0	0	12	1	2	0	0	3	1	1	2	0	4	0	0	0	0	0	19	
1700-1800	0	2	0	0	2	0	2	2	0	4	0	0	0	0	0	2	0	0	0	2	8	
<b>Totals</b>	<b>0</b>	<b>29</b>	<b>1</b>	<b>0</b>	<b>30</b>	<b>2</b>	<b>13</b>	<b>4</b>	<b>0</b>	<b>19</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>6</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>62</b>	

Comments:  
OC Transpo and Para Transpo buses, private buses and school buses comprise 12.22% of the heavy vehicle traffic.



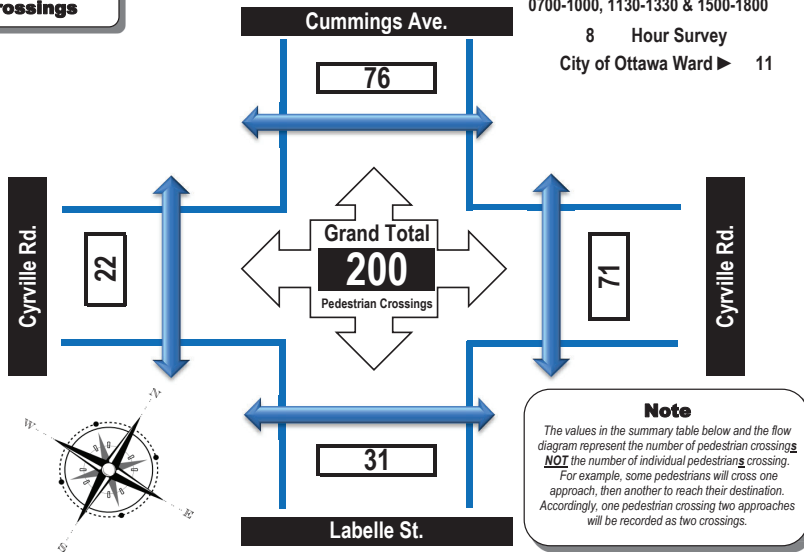
## Turning Movement Count Pedestrian Crossings Summary and Flow Diagram



### Cummings Avenue/Labelle Street & Cyrville Road Ottawa, ON

#### Pedestrian Crossings

Thursday, October 26, 2023  
0700-1000, 1130-1330 & 1500-1800  
8 Hour Survey  
City of Ottawa Ward ► 11



**Note**  
The values in the summary table below and the flow diagram represent the number of pedestrian crossings NOT the number of individual pedestrians crossing. For example, some pedestrians will cross one approach, then another to reach their destination. Accordingly, one pedestrian crossing two approaches will be recorded as two crossings.

Time Period	West Side Crossing Cyrville Rd.	East Side Crossing Cyrville Rd.	Street Total	South Side Crossing Labelle St.	North Side Crossing Cummings Ave.	Street Total	Grand Total
0700-0800	0	4	4	1	2	3	7
0800-0900	2	2	4	4	4	8	12
0900-1000	2	0	2	2	6	8	10
1130-1230	3	8	11	1	10	11	22
1230-1330	5	9	14	8	7	15	29
1500-1600	0	15	15	0	10	10	25
1600-1700	2	18	20	10	16	26	46
1700-1800	8	15	23	5	21	26	49
<b>Totals</b>	<b>22</b>	<b>71</b>	<b>93</b>	<b>31</b>	<b>76</b>	<b>107</b>	<b>200</b>

**Comments:**  
OC Transpo and Para Transpo buses, private buses and school buses comprise 12.22% of the heavy vehicle traffic.

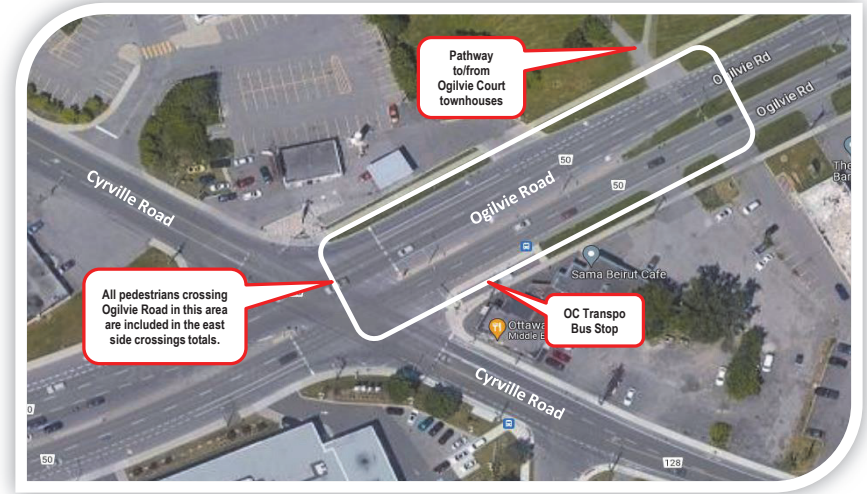


## Diagrams, Maps and Photographs



### Cyrville Road & Ogilvie Road

Thursday, October 26, 2023







## Turning Movement Count Summary Report Including Peak Hours, AADT and Expansion Factors All Vehicles Except Bicycles



### Cyrville Road & Ogilvie Road Ottawa, ON

Survey Date: Thursday, October 26, 2023      Start Time: 0700      AADT Factor: 0.9  
 Weather AM: Overcast 14° C      Survey Duration: 8 Hrs.      Survey Hours: 0700-1000, 1130-1330 & 1500-1800  
 Weather PM: Overcast 17° C      Surveyor(s): T. Carmody

Time Period	Ogilvie Rd. Eastbound					Ogilvie Rd. Westbound					Cyrville Rd. Northbound					Cyrville Rd. Southbound							
	LT	ST	RT	UT	E/B Tot	LT	ST	RT	UT	W/B Tot	LT	ST	RT	UT	N/B Tot	LT	ST	RT	UT	S/B Tot	Street Total	Grand Total	
	0700-0800	0	476	87	0	563	23	587	71	1	682	1245	72	126	16	0	214	26	91	26	0	143	357
0800-0900	0	576	135	0	711	34	740	134	0	908	1619	149	187	26	0	362	47	105	43	1	196	558	2177
0900-1000	1	512	139	0	652	24	493	106	0	623	1275	87	139	12	0	238	69	121	74	1	265	503	1778
1130-1230	2	646	184	0	832	26	590	149	0	765	1597	101	152	31	0	284	112	136	131	0	379	663	2260
1230-1330	0	654	202	1	857	32	539	128	2	701	1558	85	151	32	0	268	99	145	146	0	390	658	2216
1500-1600	0	779	203	0	982	41	707	183	1	932	1914	84	173	28	0	285	122	196	134	0	452	737	2651
1600-1700	0	923	254	0	1177	31	709	156	2	898	2075	111	235	26	0	372	147	237	149	0	533	905	2980
1700-1800	1	879	208	0	1088	33	666	152	1	852	1940	64	193	38	0	295	146	178	148	0	472	767	2707
<b>Totals</b>	<b>4</b>	<b>5445</b>	<b>1412</b>	<b>1</b>	<b>6862</b>	<b>244</b>	<b>5031</b>	<b>1079</b>	<b>7</b>	<b>6361</b>	<b>13223</b>	<b>753</b>	<b>1356</b>	<b>209</b>	<b>0</b>	<b>2318</b>	<b>768</b>	<b>1209</b>	<b>851</b>	<b>2</b>	<b>2830</b>	<b>5148</b>	<b>18371</b>

**Equivalent 12 & 24-hour Vehicle Volumes Including the Annual Average Daily Traffic (AADT) Factor**  
 Applicable to the Day and Month of the Turning Movement Count  
**Expansion factors are applied exclusively to standard weekday 8-hour turning movement counts conducted during the hours of 0700h - 1000h, 1130h - 1330h and 1500h - 1800h**

Equivalent 12-hour vehicle volumes. These volumes are calculated by multiplying the 8-hour totals by the 8 → 12 expansion factor of 1.39																							
Equ. 12 Hr	6	7569	1963	1	8584	339	6993	1500	10	8842	18380	1047	1885	291	0	3222	1068	1681	1183	3	3934	7156	25336
Average daily 12-hour vehicle volumes. These volumes are calculated by multiplying the equivalent 12-hour totals by the AADT factor of: 0.9																							
AADT 12-hr	5	6812	1766	1	8584	305	6294	1350	9	7958	16542	942	1696	261	0	2900	961	1512	1065	3	3540	6440	22982
24-Hour AADT. These volumes are calculated by multiplying the average daily 12-hour vehicle volumes by the 12 → 24 expansion factor of 1.31																							
AADT 24 Hr	7	8923	2314	2	11246	400	8245	1768	11	10424	21670	1234	2222	343	0	3799	1259	1981	1395	3	4638	8437	30107

#### AADT and expansion factors provided by the City of Ottawa

AM Peak Hour Factor → 0.93														Highest Hourly Vehicle Volume Between 0700h & 1000h													
AM Peak Hr	LT	ST	RT	UT	Total	LT	ST	RT	UT	Total	Str. Tot.	LT	ST	RT	UT	Total	LT	ST	RT	UT	Total	Str. Tot.	Gr. Tot.				
0800-0900	0	576	135	0	711	34	740	134	0	908	1619	149	187	26	0	362	47	105	43	1	196	558	2177				
OFF Peak Hour Factor → 0.97														Highest Hourly Vehicle Volume Between 1130h & 1330h													
OFF Peak Hr	LT	ST	RT	UT	Total	LT	ST	RT	UT	Total	Str. Tot.	LT	ST	RT	UT	Total	LT	ST	RT	UT	Total	Str. Tot.	Gr. Tot.				
1200-1300	2	668	207	0	877	41	589	151	0	781	1658	94	151	36	0	281	105	145	136	0	386	667	2325				
PM Peak Hour Factor → 0.95														Highest Hourly Vehicle Volume Between 1500h & 1800h													
PM Peak Hr	LT	ST	RT	UT	Total	LT	ST	RT	UT	Total	Str. Tot.	LT	ST	RT	UT	Total	LT	ST	RT	UT	Total	Str. Tot.	Gr. Tot.				
1615-1715	1	966	255	0	1222	32	703	149	1	885	2107	91	233	24	0	348	147	243	140	0	530	878	2985				

**Comments:**  
 OC Transpo and Para Transpo buses, private buses and school buses comprise 33.16% of the heavy vehicle traffic. The east side pedestrian crossings totals include all pedestrians crossing Ogilvie Road between Cyrville Road & the pedestrian pathway to the Ogilvie Court townhouses as the origin & destination of all pedestrians crossings to and from this pathway is the OC Transpo bus stop on the southeast corner of Cyrville Road & Ogilvie Road.

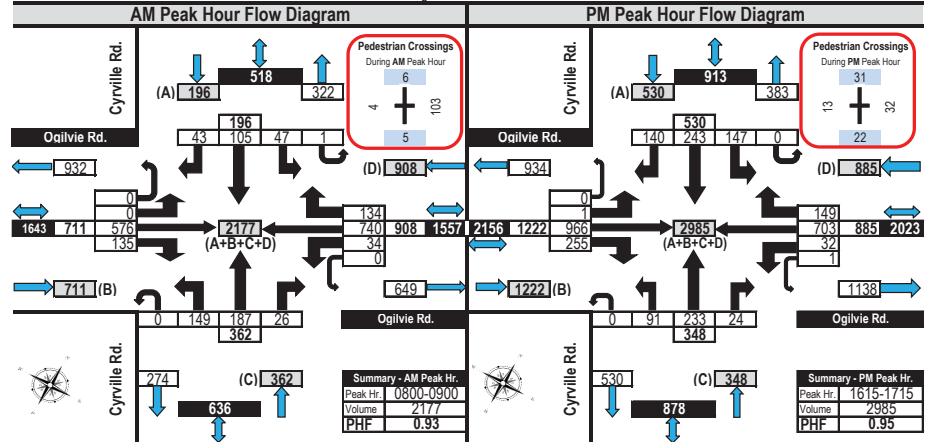
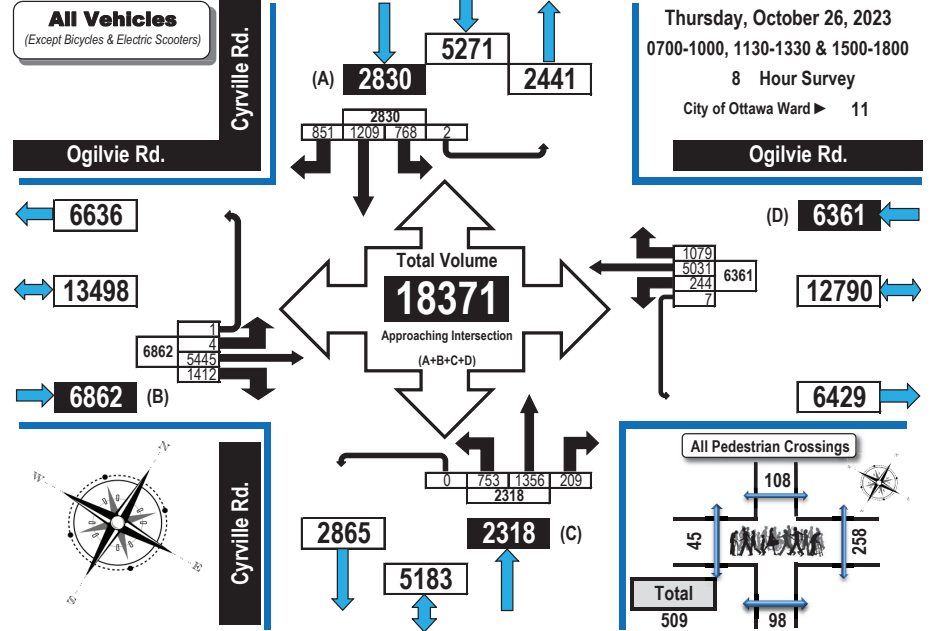
- Notes:**  
 1. Includes all vehicle types except bicycles, electric bicycles, and electric scooters.  
 2. When expansion and AADT factors are applied, the results will differ slightly due to rounding.



## Turning Movement Count Summary, AM and PM Peak Hour Flow Diagrams All Vehicles Except Bicycles



### Cyrville Road & Ogilvie Road Ottawa, ON

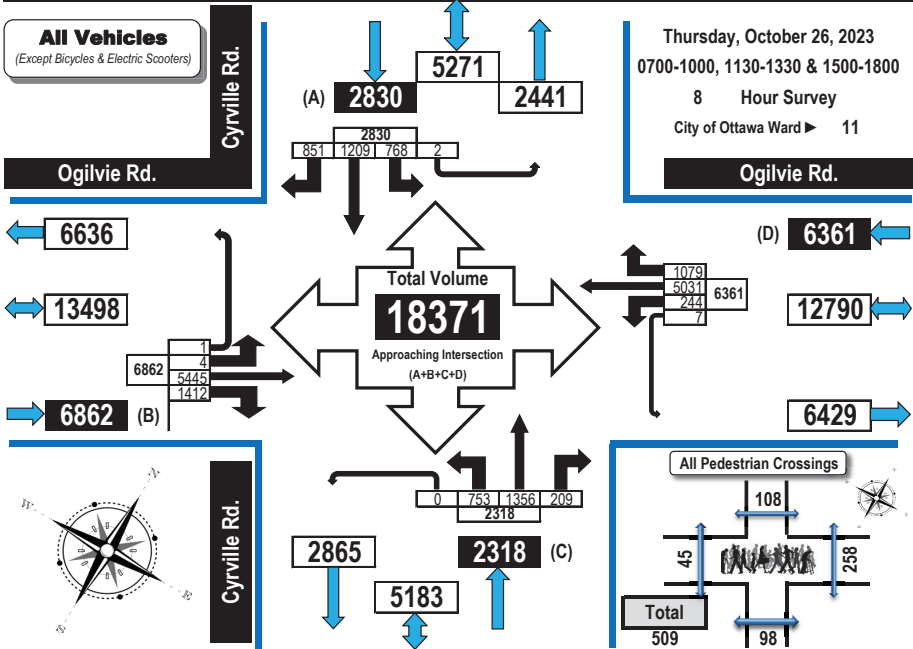




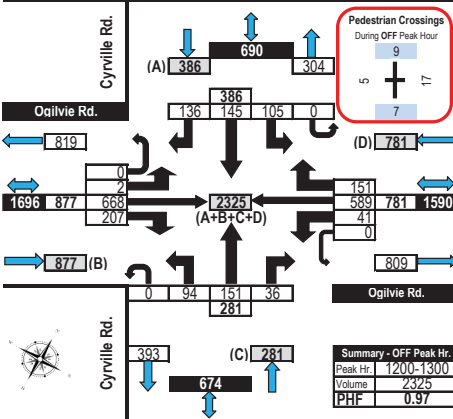
### Turning Movement Count Summary, OFF and EVENING Peak Hour Flow Diagrams All Vehicles Except Bicycles



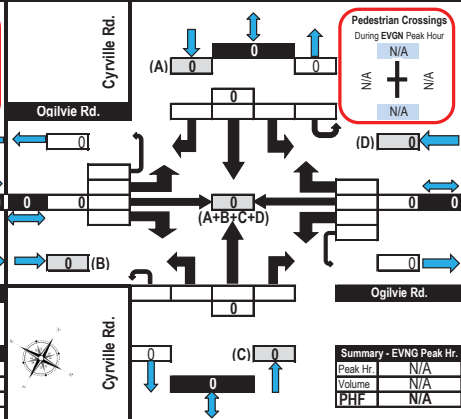
#### Cyrville Road & Ogilvie Road Ottawa, ON



#### Off Peak Hour Flow Diagram



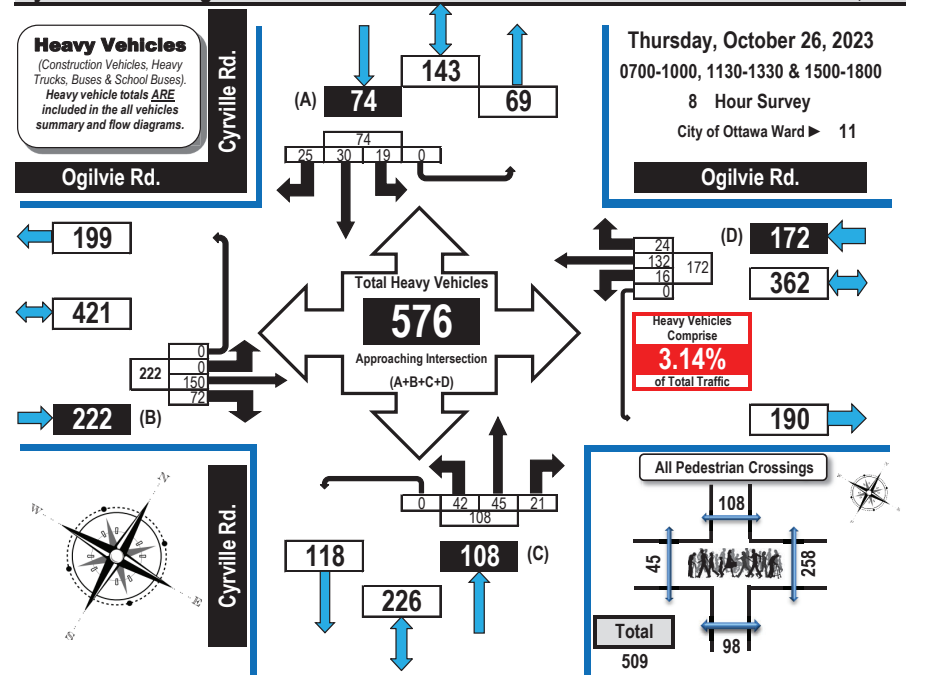
#### Evening Peak Hour Flow Diagram



### Turning Movement Count Heavy Vehicle Summary (FHWA Class 4-13) Flow Diagram



#### Cyrville Road & Ogilvie Road Ottawa, ON



Time Period	Ogilvie Rd. Eastbound				Ogilvie Rd. Westbound				Cyrville Rd. Northbound				Cyrville Rd. Southbound				SB Tot	GR Tot			
	LT	ST	RT	UT	EB Tot	LT	ST	RT	UT	WB Tot	LT	ST	RT	UT	NB Tot						
0700-0800	0	17	3	0	20	4	17	6	0	27	8	6	3	0	17	1	5	5	0	11	75
0800-0900	0	23	8	0	31	3	14	5	0	22	10	9	11	0	30	4	5	6	0	15	98
0900-1000	0	20	9	0	29	1	13	2	0	16	5	10	0	0	15	1	4	6	0	11	71
1130-1230	0	24	10	0	34	2	21	2	0	25	5	7	4	0	16	3	3	3	0	9	84
1230-1330	0	19	12	0	31	3	16	4	0	23	7	3	1	0	11	5	4	2	0	11	76
1500-1600	0	24	8	0	32	2	25	3	0	30	5	5	2	0	12	4	3	1	0	8	82
1600-1700	0	13	11	0	24	0	15	1	0	16	1	3	0	0	4	1	4	1	0	6	50
1700-1800	0	10	11	0	21	1	11	1	0	13	1	2	0	0	3	0	2	1	0	3	40
<b>Totals</b>	0	150	72	0	222	16	132	24	0	172	42	45	21	0	108	19	30	25	0	74	576

**Comments:**

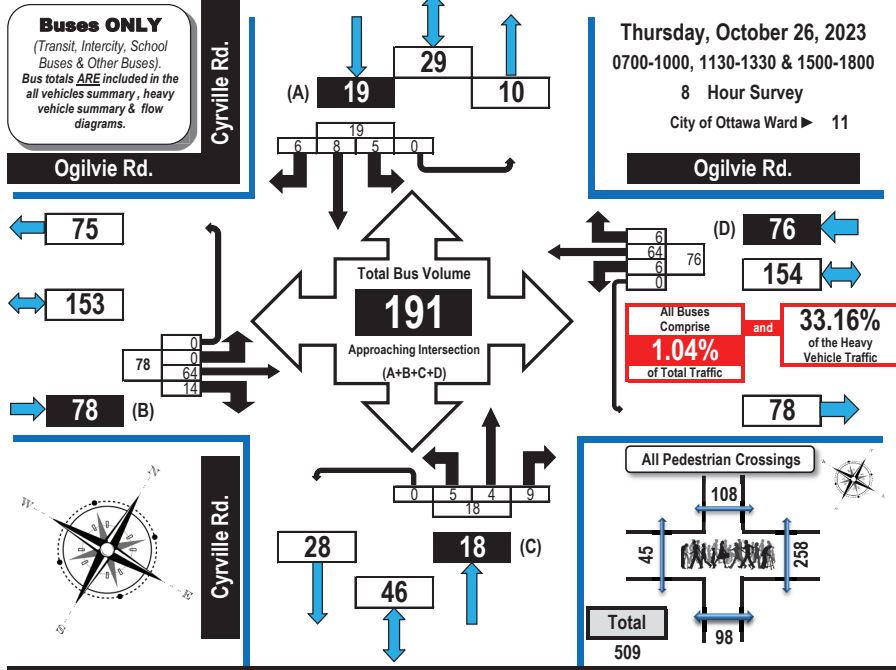
OC Transpo and Para Transpo buses, private buses and school buses comprise 33.16% of the heavy vehicle traffic. The east side pedestrian crossings totals include all pedestrians crossing Ogilvie Road between Cyrville Road & the pedestrian pathway to the Ogilvie Court townhouses as the origin & destination of all pedestrians crossings to and from this pathway is the OC Transpo bus stop on the southeast corner of Cyrville Road & Ogilvie Road.



### Turning Movement Count All Buses Summary (FHWA Class 4 ONLY) Flow Diagram



#### Cyrville Road & Ogilvie Road Ottawa, ON



Time Period	Ogilvie Rd. Eastbound				Ogilvie Rd. Westbound				Cyrville Rd. Northbound				Cyrville Rd. Southbound				GR Tot				
	LT	ST	RT	UT	EB Tot	LT	ST	RT	UT	WB Tot	LT	ST	RT	UT	NB Tot	LT		ST	RT	UT	SB Tot
0700-0800	0	8	1	0	9	2	6	2	0	10	1	1	0	0	2	1	0	1	0	2	23
0800-0900	0	8	3	0	11	3	10	1	0	14	3	1	8	0	12	1	1	1	0	3	40
0900-1000	0	4	0	0	4	0	7	0	0	7	0	1	0	0	1	0	3	2	0	5	17
1130-1230	0	7	3	0	10	1	8	1	0	10	1	0	0	0	1	1	1	0	0	2	23
1230-1330	0	5	1	0	6	0	4	0	0	4	0	0	0	0	0	1	0	1	0	2	12
1500-1600	0	16	2	0	18	0	14	1	0	15	0	0	0	1	1	0	0	0	0	1	35
1600-1700	0	9	1	0	10	0	8	0	0	8	0	1	0	0	1	0	2	0	0	2	21
1700-1800	0	7	3	0	10	0	7	1	0	8	0	0	0	0	0	1	1	0	0	2	20
<b>Totals</b>	0	64	14	0	78	6	64	6	0	76	5	4	9	0	18	5	8	6	0	19	191

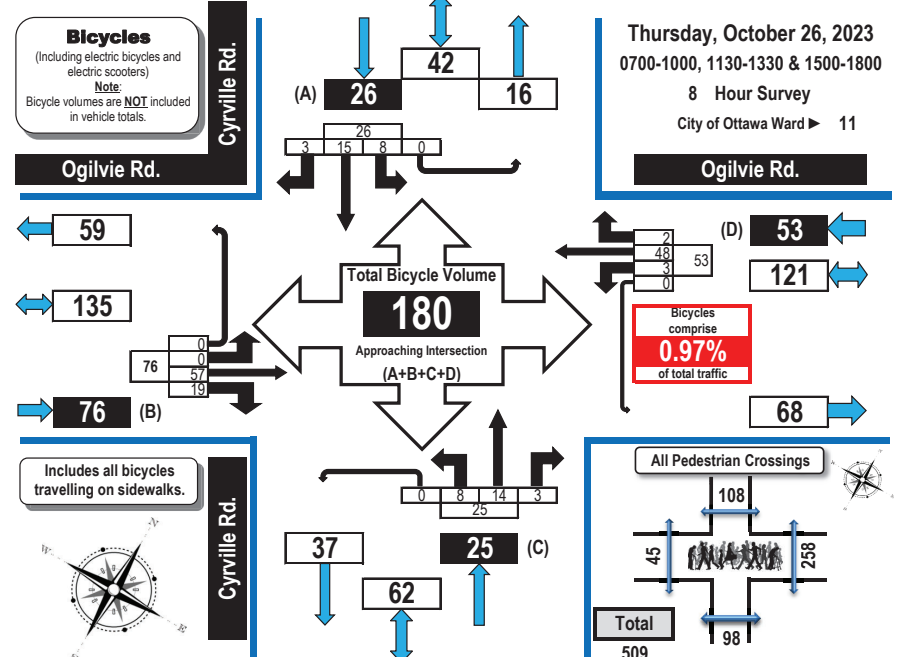
**Comments:**  
OC Transpo and Para Transpo buses, private buses and school buses comprise 33.16% of the heavy vehicle traffic. The east side pedestrian crossings totals include all pedestrians crossing Ogilvie Road between Cyrville Road & the pedestrian pathway to the Ogilvie Court townhouses as the origin & destination of all pedestrians crossings to and from this pathway is the OC Transpo bus stop on the southeast corner of Cyrville Road & Ogilvie Road.



### Turning Movement Count Bicycle Summary Flow Diagram



#### Cyrville Road & Ogilvie Road Ottawa, ON



Time Period	Ogilvie Rd. Eastbound				Ogilvie Rd. Westbound				Cyrville Rd. Northbound				Cyrville Rd. Southbound				GR Tot				
	LT	ST	RT	UT	EB Tot	LT	ST	RT	UT	WB Tot	LT	ST	RT	UT	NB Tot	LT		ST	RT	UT	SB Tot
0700-0800	0	9	2	0	11	0	7	0	0	7	0	1	1	0	2	1	3	2	0	6	26
0800-0900	0	15	3	0	18	0	12	0	0	12	2	1	1	0	4	1	1	1	0	3	37
0900-1000	0	6	1	0	7	0	1	0	0	1	0	1	1	0	2	1	1	0	0	2	12
1130-1230	0	2	1	0	3	0	4	1	0	5	1	0	0	0	1	3	2	0	0	5	14
1230-1330	0	4	1	0	5	2	4	1	0	7	0	2	0	0	2	1	0	0	0	1	15
1500-1600	0	3	3	0	6	0	7	0	0	7	1	1	0	0	2	0	1	0	0	1	16
1600-1700	0	8	7	0	15	0	8	0	0	8	3	2	0	0	5	0	7	0	0	7	35
1700-1800	0	10	1	0	11	1	5	0	0	6	1	6	0	0	7	1	0	0	0	1	25
<b>Totals</b>	0	57	19	0	76	3	48	2	0	53	8	14	3	0	25	8	15	3	0	26	180

**Comments:**  
OC Transpo and Para Transpo buses, private buses and school buses comprise 33.16% of the heavy vehicle traffic. The east side pedestrian crossings totals include all pedestrians crossing Ogilvie Road between Cyrville Road & the pedestrian pathway to the Ogilvie Court townhouses as the origin & destination of all pedestrians crossings to and from this pathway is the OC Transpo bus stop on the southeast corner of Cyrville Road & Ogilvie Road.





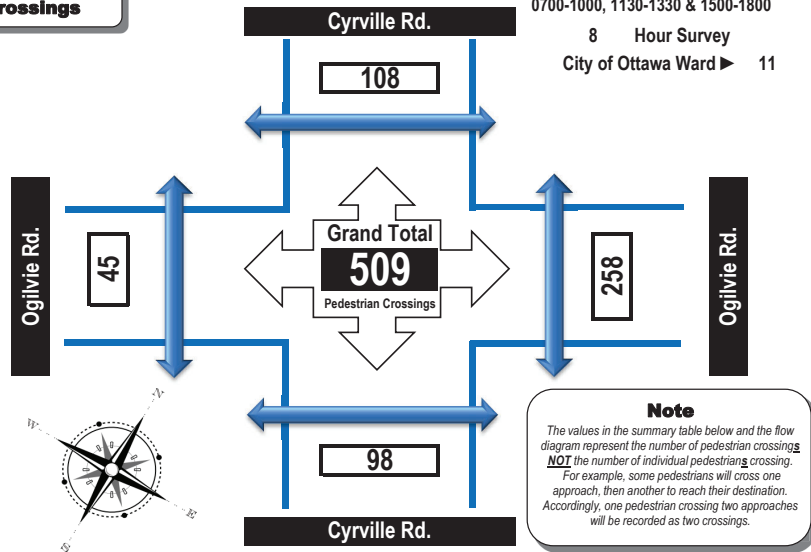
## Turning Movement Count Pedestrian Crossings Summary and Flow Diagram



### Cyrville Road & Ogilvie Road Ottawa, ON

**Pedestrian Crossings**

Thursday, October 26, 2023  
0700-1000, 1130-1330 & 1500-1800  
8 Hour Survey  
City of Ottawa Ward ► 11



**Note**  
The values in the summary table below and the flow diagram represent the number of pedestrian crossings **NOT** the number of individual pedestrians crossing.  
For example, some pedestrians will cross one approach, then another to reach their destination. Accordingly, one pedestrian crossing two approaches will be recorded as two crossings.

Time Period	West Side Crossing	East Side Crossing	Street	South Side Crossing	North Side Crossing	Street	Grand
	Ogilvie Rd.	Ogilvie Rd.	Total	Cyrville Rd.	Cyrville Rd.	Total	Total
0700-0800	3	24	27	10	10	20	47
0800-0900	4	103	107	5	6	11	118
0900-1000	2	16	18	3	7	10	28
1130-1230	3	18	21	7	6	13	34
1230-1330	10	16	26	13	12	25	51
1500-1600	5	19	24	21	10	31	55
1600-1700	14	26	40	18	38	56	96
1700-1800	4	36	40	21	19	40	80
<b>Totals</b>	<b>45</b>	<b>258</b>	<b>303</b>	<b>98</b>	<b>108</b>	<b>206</b>	<b>509</b>

**Comments:**

OC Transpo and Para Transpo buses, private buses and school buses comprise 33.16% of the heavy vehicle traffic. The east side pedestrian crossings totals include all pedestrians crossing Ogilvie Road between Cyrville Road & the pedestrian pathway to the Ogilvie Court townhouses as the origin & destination of all pedestrians crossings to and from this pathway is the OC Transpo bus stop on the southeast corner of Cyrville Road & Ogilvie Road.

# Appendix C

Synchro Intersection Worksheets – Existing Conditions

Lanes, Volumes, Timings  
1: Cummings Ave & Donald

01/22/2025

Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	56	166	225	147	184	92
Future Volume (vph)	56	166	225	147	184	92
Satd. Flow (prot)	1626	1455	1658	1695	1640	0
Fit Permitted	0.950		0.574			
Satd. Flow (perm)	1626	1455	1002	1695	1640	0
Satd. Flow (RTOR)		184			62	
Lane Group Flow (vph)	62	184	250	163	306	0
Turn Type	Perm	Perm	Perm	NA	NA	
Protected Phases				2	6	
Permitted Phases	4	4	2			
Detector Phase	4	4	2	2	6	
Switch Phase						
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	
Minimum Split (s)	22.0	22.0	39.9	39.9	39.9	
Total Split (s)	22.0	22.0	39.9	39.9	39.9	
Total Split (%)	35.5%	35.5%	64.5%	64.5%	64.5%	
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	
All-Red Time (s)	2.7	2.7	3.6	3.6	3.6	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	6.0	6.0	6.9	6.9	6.9	
Lead/Lag						
Lead-Lag Optimize?						
Recall Mode	None	None	Max	Max	Max	
Act Effct Green (s)	10.2	10.2	37.5	37.5	37.5	
Actuated g/C Ratio	0.18	0.18	0.67	0.67	0.67	
v/c Ratio	0.21	0.44	0.37	0.14	0.27	
Control Delay	21.5	7.7	8.2	5.6	5.2	
Queue Delay	0.0	0.0	0.0	0.0	0.0	
Total Delay	21.5	7.7	8.2	5.6	5.2	
LOS	C	A	A	A	A	
Approach Delay	11.2			7.2	5.2	
Approach LOS	B			A	A	
Queue Length 50th (m)	5.4	0.0	11.9	6.5	10.2	
Queue Length 95th (m)	13.8	13.2	26.5	13.7	21.5	
Internal Link Dist (m)	296.9			237.9	259.3	
Turn Bay Length (m)	60.0		60.0			
Base Capacity (vph)	465	547	671	1135	1119	
Starvation Cap Reductn	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	
Reduced v/c Ratio	0.13	0.34	0.37	0.14	0.27	

Intersection Summary

Cycle Length: 61.9  
Actuated Cycle Length: 55.9  
Natural Cycle: 65  
Control Type: Actuated-Uncoordinated  
Maximum v/c Ratio: 0.44

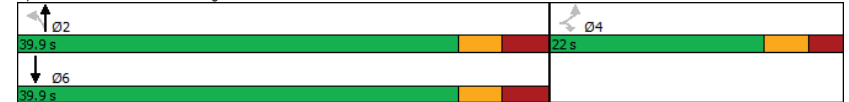
Lanes, Volumes, Timings  
1: Cummings Ave & Donald

01/22/2025

Intersection Signal Delay: 7.6  
Intersection Capacity Utilization 54.1%  
Analysis Period (min) 15

Intersection LOS: A  
ICU Level of Service A

Splits and Phases: 1: Cummings Ave & Donald



Lanes, Volumes, Timings  
2: Cyrville Rd & Ogilvie Rd

01/22/2025

	↖	→	↘	↙	←	↖	↙	↘	↙	↘	↙	↘
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕
Traffic Volume (vph)	0	576	135	34	740	134	149	187	26	48	105	43
Future Volume (vph)	0	576	135	34	740	134	149	187	26	48	105	43
Satd. Flow (prot)	0	3252	1427	1551	3316	1455	1580	1592	0	1566	1570	0
Fit Permitted				0.395			0.573			0.418		
Satd. Flow (perm)	0	3252	1338	638	3316	1301	947	1592	0	687	1570	0
Satd. Flow (RTOR)			150			149		6			17	
Lane Group Flow (vph)	0	640	150	38	822	149	166	237	0	53	165	0
Turn Type		NA	Perm	Perm	NA	Perm	Perm	NA		Perm	NA	
Protected Phases		2		6		6	8			4		4
Permitted Phases			2	6		6	8			4		4
Detector Phase		2	2	6	6	6	8	8		4	4	
Switch Phase												
Minimum Initial (s)		10.0	10.0	10.0	10.0	10.0	10.0	10.0		10.0	10.0	
Minimum Split (s)		32.2	32.2	32.2	32.2	32.2	47.1	47.1		47.1	47.1	
Total Split (s)		80.0	80.0	80.0	80.0	80.0	50.0	50.0		50.0	50.0	
Total Split (%)		61.5%	61.5%	61.5%	61.5%	61.5%	38.5%	38.5%		38.5%	38.5%	
Yellow Time (s)		3.7	3.7	3.7	3.7	3.7	3.7	3.7		3.7	3.7	
All-Red Time (s)		2.5	2.5	2.5	2.5	2.5	3.4	3.4		3.4	3.4	
Lost Time Adjust (s)		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Lost Time (s)		6.2	6.2	6.2	6.2	6.2	7.1	7.1		7.1	7.1	
Lead/Lag												
Lead-Lag Optimize?												
Recall Mode		C-Max	C-Max	C-Max	C-Max	C-Max	None	None		None	None	
Act Effct Green (s)		89.7	89.7	89.7	89.7	89.7	27.0	27.0		27.0	27.0	
Actuated g/C Ratio		0.69	0.69	0.69	0.69	0.69	0.21	0.21		0.21	0.21	
v/c Ratio		0.29	0.15	0.09	0.36	0.16	0.85	0.71		0.37	0.49	
Control Delay		9.2	2.0	2.2	1.9	0.3	81.9	57.0		48.6	43.6	
Queue Delay		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay		9.2	2.0	2.2	1.9	0.3	81.9	57.0		48.6	43.6	
LOS		A	A	A	A	A	F	E		D	D	
Approach Delay		7.9			1.7		67.3			44.8		
Approach LOS		A			A		E			D		
Queue Length 50th (m)		29.8	0.0	0.4	3.9	0.0	41.5	55.9		11.8	33.9	
Queue Length 95th (m)		53.3	8.5	m1.1	20.3	m0.4	60.3	73.2		21.7	48.4	
Internal Link Dist (m)		113.5			313.9		407.2			190.6		
Turn Bay Length (m)				62.0		71.0	50.0			82.0		
Base Capacity (vph)		2244	970	440	2288	944	312	529		226	529	
Starvation Cap Reductn		0	0	0	0	0	0	0		0	0	
Spillback Cap Reductn		0	0	0	0	0	0	0		0	0	
Storage Cap Reductn		0	0	0	0	0	0	0		0	0	
Reduced v/c Ratio		0.29	0.15	0.09	0.36	0.16	0.53	0.45		0.23	0.31	

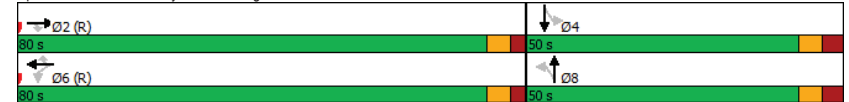
Intersection Summary	
Cycle Length:	130
Actuated Cycle Length:	130
Offset:	10 (8%), Referenced to phase 2:EBT and 6:WBTL, Start of Green
Natural Cycle:	80
Control Type:	Actuated-Coordinated

Lanes, Volumes, Timings  
2: Cyrville Rd & Ogilvie Rd

01/22/2025

Maximum v/c Ratio: 0.85	Intersection Signal Delay: 18.5	Intersection LOS: B
Intersection Capacity Utilization 70.1%	ICU Level of Service C	
Analysis Period (min) 15		
m Volume for 95th percentile queue is metered by upstream signal.		

Splits and Phases: 2: Cyrville Rd & Ogilvie Rd



Lanes, Volumes, Timings  
3: Cummings Ave & Ogilvie Rd

01/22/2025

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↔	↕	↔	↔	↕	↔	↔	↕	↔	↔	↕	↔
Traffic Volume (vph)	72	598	13	108	1042	209	17	124	77	167	109	101
Future Volume (vph)	72	598	13	108	1042	209	17	124	77	167	109	101
Satd. Flow (prot)	1580	3265	0	1642	3168	0	1658	1545	0	1642	1602	0
Fit Permitted	0.091			0.339			0.613			0.373		
Satd. Flow (perm)	151	3265	0	577	3168	0	1065	1545	0	619	1602	0
Satd. Flow (RTOR)		2			26			22			38	
Lane Group Flow (vph)	80	678	0	120	1390	0	19	224	0	186	233	0
Turn Type	pm+pt	NA		pm+pt	NA		Perm	NA		pm+pt	NA	
Protected Phases	5	2		1	6			8		7	4	
Permitted Phases	2			6			8			4		
Detector Phase	5	2		1	6		8	8		7	4	
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	10.0		10.0	10.0		5.0	10.0	
Minimum Split (s)	9.7	24.7		9.7	24.7		36.6	36.6		9.3	36.6	
Total Split (s)	11.0	71.0		11.0	71.0		36.6	36.6		11.4	48.0	
Total Split (%)	8.5%	54.6%		8.5%	54.6%		28.2%	28.2%		8.8%	36.9%	
Yellow Time (s)	3.7	3.7		3.7	3.7		3.3	3.3		3.3	3.3	
All-Red Time (s)	1.0	2.0		1.0	2.0		3.3	3.3		1.0	3.3	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	4.7	5.7		4.7	5.7		6.6	6.6		4.3	6.6	
Lead/Lag	Lead	Lag		Lead	Lag		Lag	Lag		Lead		
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes		Yes		
Recall Mode	None	C-Max		None	C-Max		None	None		None	None	
Act Effct Green (s)	75.7	68.5		75.9	68.6		26.8	26.8		40.5	38.2	
Actuated g/C Ratio	0.58	0.53		0.58	0.53		0.21	0.21		0.31	0.29	
v/c Ratio	0.51	0.39		0.31	0.83		0.09	0.67		0.75	0.47	
Control Delay	35.1	16.7		13.8	29.9		40.5	52.2		55.4	33.6	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	35.1	16.7		13.8	29.9		40.5	52.2		55.4	33.6	
LOS	D	B		B	C		D	D		E	C	
Approach Delay		18.7			28.7			51.3			43.3	
Approach LOS		B			C			D			D	
Queue Length 50th (m)	7.7	45.3		13.6	180.2		3.9	46.6		35.6	39.3	
Queue Length 95th (m)	26.2	52.8		m19.8	m209.8		10.7	73.9		#58.9	63.3	
Internal Link Dist (m)		313.9			393.6			302.0			237.9	
Turn Bay Length (m)	80.0			100.0			34.0			153.0		
Base Capacity (vph)	157	1720		388	1683		245	373		248	536	
Starvation Cap Reductn	0	0		0	0		0	0		0	0	
Spillback Cap Reductn	0	0		0	0		0	0		0	0	
Storage Cap Reductn	0	0		0	0		0	0		0	0	
Reduced v/c Ratio	0.51	0.39		0.31	0.83		0.08	0.60		0.75	0.43	

Intersection Summary

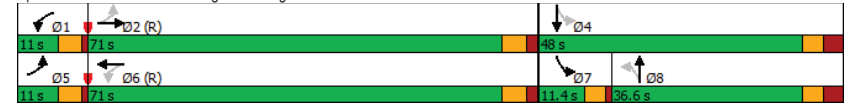
Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 110 (85%), Referenced to phase 2:EBTL and 6:WBTL, Start of Green  
 Natural Cycle: 105  
 Control Type: Actuated-Coordinated

Lanes, Volumes, Timings  
3: Cummings Ave & Ogilvie Rd

01/22/2025

Maximum v/c Ratio: 0.83	Intersection LOS: C
Intersection Signal Delay: 30.0	ICU Level of Service F
Intersection Capacity Utilization 92.5%	
Analysis Period (min) 15	
# 95th percentile volume exceeds capacity, queue may be longer.	
Queue shown is maximum after two cycles.	
m Volume for 95th percentile queue is metered by upstream signal.	

Signals and Phases: 3: Cummings Ave & Ogilvie Rd



Lanes, Volumes, Timings  
4: Aviation & Ogilvie Rd

01/22/2025

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↗	↘	↖	↗	↘	↖	↗	↘	↖	↗	↘
Traffic Volume (vph)	340	471	78	119	523	125	204	457	219	162	323	277
Future Volume (vph)	340	471	78	119	523	125	204	457	219	162	323	277
Satd. Flow (prot)	1658	3252	1483	1626	3283	1483	1658	3153	0	1658	3087	0
Fit Permitted	0.273			0.435			0.950			0.950		
Satd. Flow (perm)	476	3252	1483	745	3283	1483	1658	3153	0	1658	3087	0
Satd. Flow (RTOR)			164				164			63		147
Lane Group Flow (vph)	378	523	87	132	581	139	227	751	0	180	667	0
Turn Type	pm+pt	NA	Perm	pm+pt	NA	Perm	Prot	NA	Prot	NA	Prot	NA
Protected Phases	5	2		1	6		7	4		3	8	
Permitted Phases	2		2	6		6						
Detector Phase	5	2	2	1	6	6	7	4		3	8	
Switch Phase												
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0		5.0	10.0	
Minimum Split (s)	9.7	34.1	34.1	9.7	34.1	34.1	10.9	30.1		10.9	30.1	
Total Split (s)	20.0	47.0	47.0	20.0	47.0	47.0	32.9	45.0		18.0	30.1	
Total Split (%)	15.4%	36.2%	36.2%	15.4%	36.2%	36.2%	25.3%	34.6%		13.8%	23.2%	
Yellow Time (s)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7		3.7	3.7	
All-Red Time (s)	1.0	2.4	2.4	1.0	2.4	2.4	2.2	2.4		2.2	2.4	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Lost Time (s)	4.7	6.1	6.1	4.7	6.1	6.1	5.9	6.1		5.9	6.1	
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	
Recall Mode	None	C-Max	C-Max	None	C-Max	C-Max	None	None		None	None	
Act Effct Green (s)	63.5	47.7	47.7	53.7	40.9	40.9	22.2	36.1		12.1	26.0	
Actuated g/C Ratio	0.49	0.37	0.37	0.41	0.31	0.31	0.17	0.28		0.09	0.20	
v/c Ratio	0.95	0.44	0.13	0.34	0.56	0.24	0.80	0.82		1.17	0.91	
Control Delay	71.1	33.3	3.3	21.7	39.7	3.9	72.5	47.8		175.5	56.6	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay	71.1	33.3	3.3	21.7	39.7	3.9	72.5	47.8		175.5	56.6	
LOS	E	C	A	C	D	A	E	D		F	E	
Approach Delay		45.1			31.0			53.5			81.9	
Approach LOS		D			C			D			F	
Queue Length 50th (m)	-91.1	52.5	0.8	18.7	65.1	0.0	56.1	84.7		-54.7	69.4	
Queue Length 95th (m)	#127.8	72.3	m5.0	31.1	83.8	9.7	81.6	108.2		#100.5	#111.2	
Internal Link Dist (m)		393.6			270.9			298.0			298.9	
Turn Bay Length (m)	80.0		65.0	50.0		60.0	100.0			110.0		
Base Capacity (vph)	397	1192	647	433	1032	578	344	987		154	735	
Starvation Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Reduced v/c Ratio	0.95	0.44	0.13	0.30	0.56	0.24	0.66	0.76		1.17	0.91	

Intersection Summary

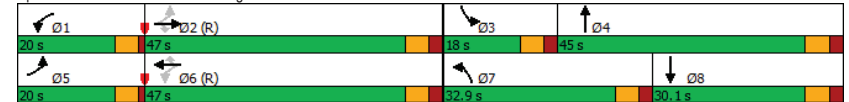
Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 105 (81%), Referenced to phase 2:EBTL and 6:WBTL, Start of Green  
 Natural Cycle: 105  
 Control Type: Actuated-Coordinated

Lanes, Volumes, Timings  
4: Aviation & Ogilvie Rd

01/22/2025

Maximum v/c Ratio: 1.17	Intersection LOS: D
Intersection Signal Delay: 52.6	ICU Level of Service E
Intersection Capacity Utilization 84.9%	
Analysis Period (min) 15	
~ Volume exceeds capacity, queue is theoretically infinite.	
Queue shown is maximum after two cycles.	
# 95th percentile volume exceeds capacity, queue may be longer.	
Queue shown is maximum after two cycles.	
m Volume for 95th percentile queue is metered by upstream signal.	

Splits and Phases: 4: Aviation & Ogilvie Rd



Lanes, Volumes, Timings

5: Labelle St/Cummings Ave & Cyrville Rd

01/22/2025

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	21	201	37	111	367	158	5	13	31	127	41	20
Future Volume (vph)	21	201	37	111	367	158	5	13	31	127	41	20
Satd. Flow (prot)	1537	1635	0	1610	1586	0	1658	1358	0	1610	1528	0
Fit Permitted	0.237			0.596			0.713			0.560		
Satd. Flow (perm)	380	1635	0	994	1586	0	1230	1358	0	834	1528	0
Satd. Flow (RTOR)		19			31			34			22	
Lane Group Flow (vph)	23	264	0	123	584	0	6	48	0	141	68	0
Turn Type	pm+pt	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases	5	2			6			8			4	
Permitted Phases	2			6			8			4		
Detector Phase	5	2		6	6		8	8		4	4	
Switch Phase												
Minimum Initial (s)	5.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	11.3	34.3		34.3	34.3		22.5	22.5		22.5	22.5	
Total Split (s)	15.0	42.0		42.0	42.0		23.0	23.0		23.0	23.0	
Total Split (%)	17.6%	49.4%		49.4%	49.4%		27.1%	27.1%		27.1%	27.1%	
Yellow Time (s)	3.7	3.7		3.7	3.7		3.3	3.3		3.3	3.3	
All-Red Time (s)	2.6	2.6		2.6	2.6		2.2	2.2		2.2	2.2	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.3	6.3		6.3	6.3		5.5	5.5		5.5	5.5	
Lead/Lag	Lead			Lag	Lag		Lag	Lag		Lag	Lag	
Lead-Lag Optimize?	Yes			Yes	Yes		Yes	Yes		Yes	Yes	
Recall Mode	None	Max		Max	Max		None	None		None	None	
Act Effct Green (s)	40.9	40.9		36.2	36.2		14.5	14.5		14.5	14.5	
Actuated g/C Ratio	0.56	0.56		0.50	0.50		0.20	0.20		0.20	0.20	
v/c Ratio	0.07	0.28		0.25	0.72		0.02	0.16		0.84	0.21	
Control Delay	7.9	8.7		14.9	22.8		25.8	14.5		70.5	20.8	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	7.9	8.7		14.9	22.8		25.8	14.5		70.5	20.8	
LOS	A	A		B	C		C	B		E	C	
Approach Delay		8.7			21.4			15.7			54.3	
Approach LOS		A			C			B			D	
Queue Length 50th (m)	1.4	16.9		8.2	50.8		0.6	1.4		16.7	4.7	
Queue Length 95th (m)	4.3	29.4		25.0	#137.1		3.8	10.4		#52.2	16.4	
Internal Link Dist (m)		407.2			322.8			177.3			302.0	
Turn Bay Length (m)	98.0			67.0			35.0			38.0		
Base Capacity (vph)	355	1166		496	808		301	358		204	391	
Starvation Cap Reductn	0	0		0	0		0	0		0	0	
Spillback Cap Reductn	0	0		0	0		0	0		0	0	
Storage Cap Reductn	0	0		0	0		0	0		0	0	
Reduced v/c Ratio	0.06	0.23		0.25	0.72		0.02	0.13		0.69	0.17	

Intersection Summary

Cycle Length: 85  
 Actuated Cycle Length: 72.5  
 Natural Cycle: 75  
 Control Type: Semi Act-Uncoord  
 Maximum v/c Ratio: 0.84

Lanes, Volumes, Timings

5: Labelle St/Cummings Ave & Cyrville Rd

01/22/2025

Lane Group	Ø3	Ø7
Lane Configurations		
Traffic Volume (vph)		
Future Volume (vph)		
Satd. Flow (prot)		
Fit Permitted		
Satd. Flow (perm)		
Satd. Flow (RTOR)		
Lane Group Flow (vph)		
Turn Type		
Protected Phases	3	7
Permitted Phases		
Detector Phase		
Switch Phase		
Minimum Initial (s)	1.0	1.0
Minimum Split (s)	3.0	3.0
Total Split (s)	5.0	5.0
Total Split (%)	6%	6%
Yellow Time (s)	2.0	2.0
All-Red Time (s)	0.0	0.0
Lost Time Adjust (s)		
Total Lost Time (s)		
Lead/Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes
Recall Mode	Max	Max
Act Effct Green (s)		
Actuated g/C Ratio		
v/c Ratio		
Control Delay		
Queue Delay		
Total Delay		
LOS		
Approach Delay		
Approach LOS		
Queue Length 50th (m)		
Queue Length 95th (m)		
Internal Link Dist (m)		
Turn Bay Length (m)		
Base Capacity (vph)		
Starvation Cap Reductn		
Spillback Cap Reductn		
Storage Cap Reductn		
Reduced v/c Ratio		

Intersection Summary

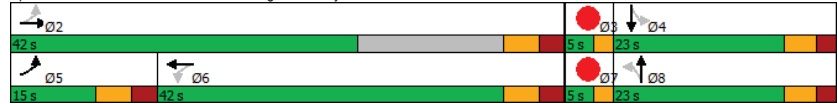
Lanes, Volumes, Timings

5: Labelle St/Cummings Ave & Cyrville Rd

01/22/2025

Intersection Signal Delay: 23.7	Intersection LOS: C
Intersection Capacity Utilization 64.6%	ICU Level of Service C
Analysis Period (min) 15	
# 95th percentile volume exceeds capacity, queue may be longer.	
Queue shown is maximum after two cycles.	

Splits and Phases: 5: Labelle St/Cummings Ave & Cyrville Rd



Lanes, Volumes, Timings

1: Cummings Ave & Donald

01/22/2025

Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	↔	↔	↔	↕	↕	↕
Traffic Volume (vph)	87	279	246	267	301	96
Future Volume (vph)	87	279	246	267	301	96
Satd. Flow (prot)	1595	1469	1658	1728	1684	0
Fit Permitted	0.950		0.495			
Satd. Flow (perm)	1595	1469	864	1728	1684	0
Satd. Flow (RTOR)			310		40	
Lane Group Flow (vph)	97	310	273	297	441	0
Turn Type	Perm	Perm	Perm	NA	NA	
Protected Phases				2	6	
Permitted Phases	4	4	2			
Detector Phase	4	4	2	2	6	
Switch Phase						
Minimum Initial (s)	10.0	10.0	1.0	1.0	10.0	
Minimum Split (s)	22.0	22.0	7.9	7.9	39.9	
Total Split (s)	22.0	22.0	39.9	39.9	39.9	
Total Split (%)	35.5%	35.5%	64.5%	64.5%	64.5%	
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	
All-Red Time (s)	2.7	2.7	3.6	3.6	3.6	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	6.0	6.0	6.9	6.9	6.9	
Lead/Lag						
Lead-Lag Optimize?						
Recall Mode	None	None	Max	Max	Max	
Act Effct Green (s)	10.8	10.8	33.0	33.0	33.0	
Actuated g/C Ratio	0.19	0.19	0.58	0.58	0.58	
v/c Ratio	0.32	0.59	0.54	0.29	0.44	
Control Delay	22.9	8.0	12.7	7.2	7.9	
Queue Delay	0.0	0.0	0.0	0.0	0.0	
Total Delay	22.9	8.0	12.7	7.2	7.9	
LOS	C	A	B	A	A	
Approach Delay	11.6			9.8	7.9	
Approach LOS	B			A	A	
Queue Length 50th (m)	8.7	0.0	14.3	12.8	18.8	
Queue Length 95th (m)	19.4	16.4	38.6	27.9	41.6	
Internal Link Dist (m)	296.3			237.9	259.3	
Turn Bay Length (m)	60.0		60.0			
Base Capacity (vph)	450	637	503	1007	997	
Starvation Cap Reductn	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	
Reduced v/c Ratio	0.22	0.49	0.54	0.29	0.44	

Intersection Summary

Cycle Length: 61.9
Actuated Cycle Length: 56.7
Natural Cycle: 65
Control Type: Actuated-Uncoordinated
Maximum v/c Ratio: 0.59

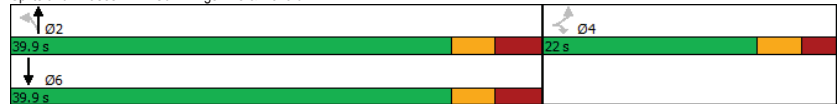


Lanes, Volumes, Timings  
1: Cummings Ave & Donald

01/22/2025

Intersection Signal Delay: 9.7	Intersection LOS: A
Intersection Capacity Utilization 62.1%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 1: Cummings Ave & Donald



Lanes, Volumes, Timings  
2: Cyrville Rd & Ogilvie Rd

01/22/2025

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑	↑	↑	↑↑	↑	↑	↑	↑	↑	↑	↑
Traffic Volume (vph)	0	967	255	33	703	149	91	233	24	147	243	140
Future Volume (vph)	0	967	255	33	703	149	91	233	24	147	243	140
Satd. Flow (prot)	0	3316	1455	1658	3316	1483	1658	1718	0	1658	1635	0
Fit Permitted				0.208			0.227			0.433		
Satd. Flow (perm)	0	3316	1366	361	3316	1333	395	1718	0	754	1635	0
Satd. Flow (RTOR)			283		166		5			27		
Lane Group Flow (vph)	0	1074	283	37	781	166	101	286	0	163	426	0
Turn Type	NA	Perm	Perm	NA	Perm	Perm	NA	Perm	NA	Perm	NA	
Protected Phases		2		6		6	8		4		4	
Permitted Phases			2	6		6	8		4		4	
Detector Phase		2	2	6	6	6	8	8		4	4	
Switch Phase												
Minimum Initial (s)		10.0	10.0	10.0	10.0	10.0	10.0	10.0		10.0	10.0	
Minimum Split (s)		32.2	32.2	32.2	32.2	32.2	47.1	47.1		47.1	47.1	
Total Split (s)		70.0	70.0	70.0	70.0	70.0	50.0	50.0		50.0	50.0	
Total Split (%)		58.3%	58.3%	58.3%	58.3%	58.3%	41.7%	41.7%		41.7%	41.7%	
Yellow Time (s)		3.7	3.7	3.7	3.7	3.7	3.7	3.7		3.7	3.7	
All-Red Time (s)		2.5	2.5	2.5	2.5	2.5	3.4	3.4		3.4	3.4	
Lost Time Adjust (s)		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Lost Time (s)		6.2	6.2	6.2	6.2	6.2	7.1	7.1		7.1	7.1	
Lead/Lag												
Lead-Lag Optimize?												
Recall Mode		C-Max	C-Max	C-Max	C-Max	C-Max	None	None		None	None	
Act Effct Green (s)		72.0	72.0	72.0	72.0	72.0	34.7	34.7		34.7	34.7	
Actuated g/C Ratio		0.60	0.60	0.60	0.60	0.60	0.29	0.29		0.29	0.29	
v/c Ratio		0.54	0.30	0.17	0.39	0.19	0.89	0.57		0.75	0.87	
Control Delay		16.5	2.5	24.3	23.3	10.1	99.5	39.4		59.0	55.5	
Queue Delay		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay		16.5	2.5	24.3	23.3	10.1	99.5	39.4		59.0	55.5	
LOS		B	A	C	C	B	F	D		E	E	
Approach Delay		13.6			21.1		55.1			56.5		
Approach LOS		B			C		E			E		
Queue Length 50th (m)		75.4	0.0	5.4	62.1	10.1	22.5	55.9		34.5	89.1	
Queue Length 95th (m)		109.4	12.6	m6.3	m61.2	m10.5	#50.2	75.7		56.2	118.2	
Internal Link Dist (m)		113.8			313.9		407.0			190.4		
Turn Bay Length (m)				62.0		71.0	50.0			82.0		
Base Capacity (vph)		1990	932	216	1990	866	141	617		269	601	
Starvation Cap Reductn		0	0	0	0	0	0	0		0	0	
Spillback Cap Reductn		0	0	0	0	0	0	0		0	0	
Storage Cap Reductn		0	0	0	0	0	0	0		0	0	
Reduced v/c Ratio		0.54	0.30	0.17	0.39	0.19	0.72	0.46		0.61	0.71	

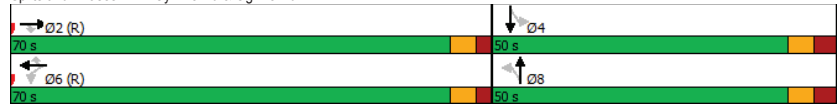
Intersection Summary	
Cycle Length:	120
Actuated Cycle Length:	120
Offset:	20 (17%), Referenced to phase 2:EBT and 6:WBTL, Start of Green
Natural Cycle:	80
Control Type:	Actuated-Coordinated

Lanes, Volumes, Timings  
2: Cyrville Rd & Ogilvie Rd

01/22/2025

Maximum v/c Ratio: 0.89	Intersection LOS: C
Intersection Signal Delay: 28.3	ICU Level of Service D
Intersection Capacity Utilization 79.6%	
Analysis Period (min) 15	
# 95th percentile volume exceeds capacity, queue may be longer.	
Queue shown is maximum after two cycles.	
m Volume for 95th percentile queue is metered by upstream signal.	

Splits and Phases: 2: Cyrville Rd & Ogilvie Rd



Lanes, Volumes, Timings  
3: Cummings Ave & Ogilvie Rd

01/22/2025

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↔	↕	↔	↔	↕	↔	↔	↕	↔	↔	↕	↔
Traffic Volume (vph)	155	1047	27	148	801	224	35	204	202	273	192	137
Future Volume (vph)	155	1047	27	148	801	224	35	204	202	273	192	137
Satd. Flow (prot)	1658	3294	0	1610	3120	0	1658	1526	0	1658	1623	0
Fit Permitted	0.102			0.102			0.544			0.147		
Satd. Flow (perm)	178	3294	0	173	3120	0	946	1526	0	252	1623	0
Satd. Flow (RTOR)		2			32			41			39	
Lane Group Flow (vph)	172	1193	0	164	1139	0	39	451	0	303	365	0
Turn Type	pm+pt	NA		pm+pt	NA		Perm	NA		pm+pt	NA	
Protected Phases	5	2		1	6			8		7	4	
Permitted Phases	2			6			8			4		
Detector Phase	5	2		1	6		8	8		7	4	
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	10.0		10.0	10.0		5.0	10.0	
Minimum Split (s)	9.7	24.7		9.7	24.7		36.6	36.6		9.3	36.6	
Total Split (s)	15.0	45.0		15.0	45.0		40.0	40.0		20.0	60.0	
Total Split (%)	12.5%	37.5%		12.5%	37.5%		33.3%	33.3%		16.7%	50.0%	
Yellow Time (s)	3.7	3.7		3.7	3.7		3.3	3.3		3.3	3.3	
All-Red Time (s)	1.0	2.0		1.0	2.0		3.3	3.3		1.0	3.3	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	4.7	5.7		4.7	5.7		6.6	6.6		4.3	6.6	
Lead/Lag	Lead	Lag		Lead	Lag		Lag	Lag		Lead		
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes		Yes		
Recall Mode	None	C-Max		None	C-Max		None	None		None	None	
Act Effct Green (s)	50.6	39.3		50.6	39.3		33.4	33.4		55.7	53.4	
Actuated g/C Ratio	0.42	0.33		0.42	0.33		0.28	0.28		0.46	0.44	
v/c Ratio	0.85	1.10		0.84	1.09		0.15	0.99		1.01	0.49	
Control Delay	68.4	90.4		61.9	92.5		34.6	80.5		82.8	23.6	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	68.4	90.4		61.9	92.5		34.6	80.5		82.8	23.6	
LOS	E	F		E	F		C	F		F	C	
Approach Delay		87.6			88.7			76.8			50.5	
Approach LOS		F			F			E			D	
Queue Length 50th (m)	20.7	~169.6		31.7	~148.7		6.9	98.3		~51.6	53.2	
Queue Length 95th (m)	#64.2	#211.9		m#49.2	m#168.7		16.1	#165.4		#108.8	80.2	
Internal Link Dist (m)		313.9			393.6			302.0			237.9	
Turn Bay Length (m)	80.0			100.0			34.0			153.0		
Base Capacity (vph)	202	1080		196	1043		263	454		300	743	
Starvation Cap Reductn	0	0		0	0		0	0		0	0	
Spillback Cap Reductn	0	0		0	0		0	0		0	0	
Storage Cap Reductn	0	0		0	0		0	0		0	0	
Reduced v/c Ratio	0.85	1.10		0.84	1.09		0.15	0.99		1.01	0.49	

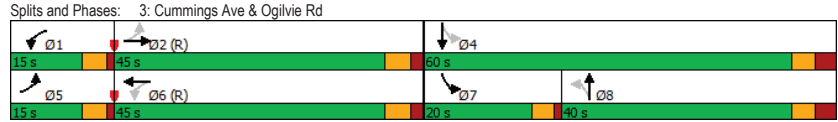
Intersection Summary

Cycle Length: 120
Actuated Cycle Length: 120
Offset: 46 (38%), Referenced to phase 2:EBTL and 6:WBTL, Start of Green
Natural Cycle: 105
Control Type: Actuated-Coordinated

Lanes, Volumes, Timings  
3: Cummings Ave & Ogilvie Rd

01/22/2025

Maximum v/c Ratio: 1.10	Intersection LOS: F
Intersection Signal Delay: 80.1	ICU Level of Service G
Intersection Capacity Utilization 100.6%	
Analysis Period (min) 15	
~ Volume exceeds capacity, queue is theoretically infinite.	
Queue shown is maximum after two cycles.	
# 95th percentile volume exceeds capacity, queue may be longer.	
Queue shown is maximum after two cycles.	
m Volume for 95th percentile queue is metered by upstream signal.	



Lanes, Volumes, Timings  
4: Aviation & Ogilvie Rd

01/22/2025

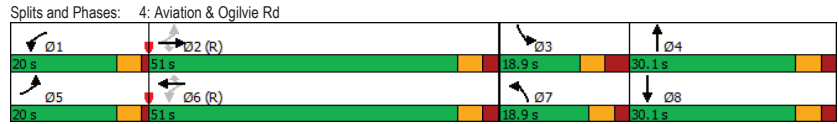
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↔	↕	↔	↔	↕	↔	↔	↕	↔	↔	↕	↔
Traffic Volume (vph)	274	1059	96	231	673	220	166	331	163	146	380	293
Future Volume (vph)	274	1059	96	231	673	220	166	331	163	146	380	293
Satd. Flow (prot)	1658	3316	1469	1658	3316	1483	1658	3153	0	1658	3100	0
Fit Permitted	0.250			0.088			0.950			0.950		
Satd. Flow (perm)	436	3316	1469	154	3316	1483	1658	3153	0	1658	3100	0
Satd. Flow (RTOR)			136			244		63			142	
Lane Group Flow (vph)	304	1177	107	257	748	244	184	549	0	162	748	0
Turn Type	pm+pt	NA	Perm	pm+pt	NA	Perm	Prot	NA	Prot	NA		
Protected Phases	5	2		1	6		7	4		3	8	
Permitted Phases	2		2	6		6						
Detector Phase	5	2	2	1	6	6	7	4		3	8	
Switch Phase												
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0		5.0	10.0	
Minimum Split (s)	9.7	34.1	34.1	9.7	34.1	34.1	10.9	30.1		12.2	30.1	
Total Split (s)	20.0	51.0	51.0	20.0	51.0	51.0	18.9	30.1		18.9	30.1	
Total Split (%)	16.7%	42.5%	42.5%	16.7%	42.5%	42.5%	15.8%	25.1%		15.8%	25.1%	
Yellow Time (s)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7		3.5	3.7	
All-Red Time (s)	1.0	2.4	2.4	1.0	2.4	2.4	2.2	2.4		3.7	2.4	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.2	2.4	
Total Lost Time (s)	4.7	6.1	6.1	4.7	6.1	6.1	5.9	6.1		9.4	8.5	
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	
Recall Mode	None	C-Max	C-Max	None	C-Max	C-Max	None	None		None	None	
Act Effct Green (s)	61.2	44.9	44.9	62.0	45.3	45.3	13.0	24.0		9.5	21.6	
Actuated g/C Ratio	0.51	0.37	0.37	0.52	0.38	0.38	0.11	0.20		0.08	0.18	
v/c Ratio	0.82	0.95	0.17	0.95	0.60	0.34	1.03	0.81		1.24	1.11	
Control Delay	33.3	37.6	4.9	76.0	32.5	4.5	127.3	50.7		201.1	105.7	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay	33.3	37.6	4.9	76.0	32.5	4.5	127.3	50.7		201.1	105.7	
LOS	C	D	A	E	C	A	F	D		F	F	
Approach Delay	34.6			36.0			69.9			122.7		
Approach LOS	C			D			E			F		
Queue Length 50th (m)	49.2	91.2	1.9	45.6	74.1	0.0	~46.2	58.3		~47.2	~90.7	
Queue Length 95th (m)	m43.9	m85.2	m1.6	#96.2	94.1	16.2	#90.7	#79.3		#89.9	#129.3	
Internal Link Dist (m)	393.6			260.7			297.6					
Turn Bay Length (m)	80.0		65.0	50.0		60.0	100.0			110.0		
Base Capacity (vph)	379	1240	634	271	1252	712	179	681		131	674	
Starvation Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Reduced v/c Ratio	0.80	0.95	0.17	0.95	0.60	0.34	1.03	0.81		1.24	1.11	

<b>Intersection Summary</b>												
Cycle Length: 120												
Actuated Cycle Length: 120												
Offset: 50 (42%), Referenced to phase 2:EBTL and 6:WBTL, Start of Green												
Natural Cycle: 120												
Control Type: Actuated-Coordinated												

Lanes, Volumes, Timings  
4: Aviation & Ogilvie Rd

01/22/2025

Maximum v/c Ratio: 1.24	Intersection LOS: E
Intersection Signal Delay: 58.7	ICU Level of Service F
Intersection Capacity Utilization 96.1%	
Analysis Period (min) 15	
~ Volume exceeds capacity, queue is theoretically infinite.	
Queue shown is maximum after two cycles.	
# 95th percentile volume exceeds capacity, queue may be longer.	
Queue shown is maximum after two cycles.	
m Volume for 95th percentile queue is metered by upstream signal.	



Lanes, Volumes, Timings  
5: Labelle St/Cummings Ave & Cyrville Rd

01/22/2025

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	[Diagrammatic arrows for lane configurations]											
Traffic Volume (vph)	10	52	68	70	299	259	10	52	68	60	476	17
Future Volume (vph)	10	52	68	70	299	259	10	52	68	60	476	17
Satd. Flow (prot)	1658	1387	0	1595	1573	0	1658	1442	0	1445	1734	0
Fit Permitted	0.172			0.671			0.312			0.433		
Satd. Flow (perm)	300	1387	0	1102	1573	0	544	1442	0	575	1734	0
Satd. Flow (RTOR)		76			49			69				2
Lane Group Flow (vph)	11	134	0	78	620	0	11	134	0	67	548	0
Turn Type	pm+pt	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases	5	2			6			8			4	
Permitted Phases	2			6			8			4		
Detector Phase	5	2		6	6		8	8		4	4	
Switch Phase												
Minimum Initial (s)	5.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	11.3	34.3		34.3	34.3		22.5	22.5		22.5	22.5	
Total Split (s)	15.0	43.0		43.0	43.0		37.0	37.0		37.0	37.0	
Total Split (%)	15.0%	43.0%		43.0%	43.0%		37.0%	37.0%		37.0%	37.0%	
Yellow Time (s)	3.7	3.7		3.7	3.7		3.3	3.3		3.3	3.3	
All-Red Time (s)	1.0	2.6		2.6	2.6		2.2	2.2		2.2	2.2	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	4.7	6.3		6.3	6.3		5.5	5.5		5.5	5.5	
Lead/Lag	Lead			Lag	Lag		Lag	Lag		Lag	Lag	
Lead-Lag Optimize?	Yes			Yes	Yes		Yes	Yes		Yes	Yes	
Recall Mode	None	Max		Max	Max		None	None		None	None	
Act Effct Green (s)	40.5	38.9		36.8	36.8		23.2	23.2		31.6	31.6	
Actuated g/C Ratio	0.49	0.47		0.45	0.45		0.28	0.28		0.38	0.38	
v/c Ratio	0.05	0.19		0.16	0.85		0.07	0.29		0.30	0.82	
Control Delay	10.7	6.5		15.8	32.6		22.7	13.4		23.9	35.9	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	10.7	6.5		15.8	32.6		22.7	13.4		23.9	35.9	
LOS	B	A		B	C		C	B		C	D	
Approach Delay		6.8			30.8			14.1			34.6	
Approach LOS		A			C			B			C	
Queue Length 50th (m)	0.8	4.8		6.6	73.3		1.1	6.8		6.8	71.7	
Queue Length 95th (m)	3.2	13.6		18.1	#164.7		5.5	22.6		20.5	#152.7	
Internal Link Dist (m)		407.0			322.8			177.5			302.0	
Turn Bay Length (m)	98.0			67.0			35.0			38.0		
Base Capacity (vph)	318	902		492	730		209	596		220	666	
Starvation Cap Reductn	0	0		0	0		0	0		0	0	
Spillback Cap Reductn	0	0		0	0		0	0		0	0	
Storage Cap Reductn	0	0		0	0		0	0		0	0	
Reduced v/c Ratio	0.03	0.15		0.16	0.85		0.05	0.22		0.30	0.82	

<b>Intersection Summary</b>	
Cycle Length:	100
Actuated Cycle Length:	82.3
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.85

Lanes, Volumes, Timings

5: Labelle St/Cummings Ave & Cyrville Rd

01/22/2025

Lane Group	Ø3	Ø7
Lane Configurations		
Traffic Volume (vph)		
Future Volume (vph)		
Satd. Flow (prot)		
Fit Permitted		
Satd. Flow (perm)		
Satd. Flow (RTOR)		
Lane Group Flow (vph)		
Turn Type		
Protected Phases	3	7
Permitted Phases		
Detector Phase		
Switch Phase		
Minimum Initial (s)	1.0	1.0
Minimum Split (s)	3.0	3.0
Total Split (s)	5.0	5.0
Total Split (%)	5%	5%
Yellow Time (s)	2.0	2.0
All-Red Time (s)	0.0	0.0
Lost Time Adjust (s)		
Total Lost Time (s)		
Lead/Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes
Recall Mode	None	Max
Act Effct Green (s)		
Actuated g/C Ratio		
v/c Ratio		
Control Delay		
Queue Delay		
Total Delay		
LOS		
Approach Delay		
Approach LOS		
Queue Length 50th (m)		
Queue Length 95th (m)		
Internal Link Dist (m)		
Turn Bay Length (m)		
Base Capacity (vph)		
Starvation Cap Reductn		
Spillback Cap Reductn		
Storage Cap Reductn		
Reduced v/c Ratio		
Intersection Summary		

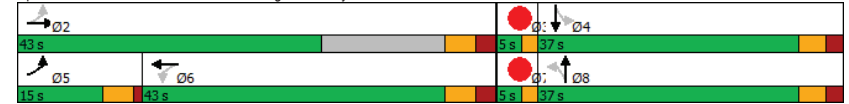
Lanes, Volumes, Timings

5: Labelle St/Cummings Ave & Cyrville Rd

01/22/2025

Intersection Signal Delay: 28.6 Intersection LOS: C  
 Intersection Capacity Utilization 71.8% ICU Level of Service C  
 Analysis Period (min) 15  
 # 95th percentile volume exceeds capacity, queue may be longer.  
 Queue shown is maximum after two cycles.

Splits and Phases: 5: Labelle St/Cummings Ave & Cyrville Rd



# Appendix D

Collision Data

Accident Date	Accident Year	Accident Time	Location	Environment Condition	Light	Traffic Control	Traffic Control Condition	Classification Of Accident	Initial Impact Type	Road Surface Condition	# Vehicles	# Motorcycles	# Bicycles	# Pedestrians
2018-03-24	2018	18:25	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	05 - Dusk	01 - Traffic signal	0	02 - Non-fatal injury	03 - Rear end	01 - Dry	0	0	0	0
2018-04-12	2018	11:01	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	04 - Sideswipe	01 - Dry	0	0	0	0
2018-05-05	2018	18:14	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	02 - Angle	01 - Dry	0	0	0	0
2018-05-25	2018	15:00	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	04 - Sideswipe	01 - Dry	0	0	0	0
2018-06-11	2018	18:00	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	05 - Turning movement	01 - Dry	0	0	0	0
2018-07-23	2018	9:30	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	03 - Rear end	01 - Dry	0	0	0	0
2018-08-20	2018	17:00	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	02 - Non-fatal injury	05 - Turning movement	01 - Dry	0	0	1	0
2018-09-19	2018	17:07	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	05 - Turning movement	01 - Dry	0	0	1	0
2018-10-10	2018	15:15	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	05 - Turning movement	01 - Dry	0	0	0	0
2018-11-21	2018	16:10	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	05 - Turning movement	05 - Packed snow	0	0	0	0
2018-12-08	2018	18:00	CUMMINGS AVE @ OGLIVIE RD (0009923)	03 - Snow	07 - Dark	01 - Traffic signal	0	03 - P.D. only	04 - Sideswipe	03 - Loose snow	0	0	0	0
2019-01-11	2019	16:08	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	04 - Sideswipe	01 - Dry	0	0	0	0
2019-01-23	2019	12:30	CUMMINGS AVE @ OGLIVIE RD (0009923)	03 - Snow	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	04 - Sideswipe	05 - Packed snow	0	0	0	0
2019-01-28	2019	9:30	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	99 - Other	02 - Wet	0	0	0	0
2019-02-09	2019	16:15	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	03 - Rear end	06 - Ice	0	0	0	0
2019-03-06	2019	9:59	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	02 - Non-fatal injury	03 - Rear end	02 - Wet	0	0	0	0
2019-03-13	2019	18:40	CUMMINGS AVE @ OGLIVIE RD (0009923)	03 - Snow	07 - Dark	01 - Traffic signal	0	03 - P.D. only	02 - Angle	05 - Packed snow	0	0	0	0
2019-03-25	2019	11:00	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	03 - Rear end	01 - Dry	0	0	0	0
2019-05-12	2019	13:19	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	05 - Turning movement	01 - Dry	0	0	0	0
2019-06-27	2019	12:51	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	02 - Angle	01 - Dry	0	0	0	0
2019-07-20	2019	13:47	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	03 - Rear end	01 - Dry	0	0	0	0
2019-07-30	2019	12:30	CUMMINGS AVE @ OGLIVIE RD (0009923)	02 - Rain	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	02 - Angle	02 - Wet	0	0	0	0
2019-08-01	2019	18:04	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	03 - Rear end	01 - Dry	0	0	0	0
2019-08-11	2019	15:12	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	03 - Rear end	01 - Dry	0	0	0	0
2019-11-16	2019	21:55	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	07 - Dark	01 - Traffic signal	0	03 - P.D. only	03 - Rear end	06 - Ice	0	0	0	0
2019-11-25	2019	9:53	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	03 - Rear end	01 - Dry	0	0	0	0
2020-01-06	2020	7:45	CUMMINGS AVE @ OGLIVIE RD (0009923)	03 - Snow	03 - Dawn	01 - Traffic signal	0	03 - P.D. only	05 - Turning movement	06 - Ice	0	0	0	0
2020-01-10	2020	12:23	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	03 - Rear end	01 - Dry	0	0	0	0
2020-01-11	2020	14:55	CUMMINGS AVE @ OGLIVIE RD (0009923)	03 - Snow	01 - Daylight	01 - Traffic signal	0	05 - Turning movement	05 - Turning movement	03 - Loose snow	0	0	0	0
2020-02-07	2020	17:45	CUMMINGS AVE @ OGLIVIE RD (0009923)	03 - Snow	07 - Dark	01 - Traffic signal	0	03 - P.D. only	04 - Sideswipe	03 - Loose snow	0	0	0	0
2020-03-06	2020	7:38	CUMMINGS AVE @ OGLIVIE RD (0009923)	03 - Snow	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	03 - Rear end	02 - Wet	0	0	0	0
2020-07-13	2020	18:04	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	05 - Turning movement	05 - Turning movement	0	0	0	0
2020-08-01	2020	15:22	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	05 - Turning movement	01 - Dry	0	0	0	0
2020-10-11	2020	15:40	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	03 - Rear end	01 - Dry	0	0	0	0
2020-12-11	2020	18:16	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	07 - Dark	01 - Traffic signal	0	03 - P.D. only	04 - Sideswipe	01 - Dry	0	0	0	0
2021-01-24	2021	17:58	CUMMINGS AVE @ OGLIVIE RD (0009923)	03 - Snow	07 - Dark	01 - Traffic signal	0	02 - Non-fatal injury	05 - Turning movement	05 - Packed snow	0	0	0	0
2021-06-06	2021	17:47	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	02 - Non-fatal injury	02 - Angle	01 - Dry	0	0	0	0
2021-06-08	2021	18:01	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	03 - Rear end	01 - Dry	0	0	0	0
2021-08-20	2021	19:40	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	05 - Turning movement	01 - Dry	0	0	0	0
2021-09-30	2021	23:10	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	07 - Dark	01 - Traffic signal	0	02 - Non-fatal injury	02 - Angle	01 - Dry	0	0	0	0
2021-11-06	2021	14:42	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	02 - Non-fatal injury	05 - Turning movement	01 - Dry	0	0	0	0
2021-12-02	2021	12:19	CUMMINGS AVE @ OGLIVIE RD (0009923)	02 - Rain	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	05 - Turning movement	02 - Wet	0	0	0	0
2022-04-07	2022	16:30	CUMMINGS AVE @ OGLIVIE RD (0009923)	02 - Rain	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	05 - Turning movement	02 - Wet	0	1	0	0
2022-05-01	2022	8:38	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	02 - Non-fatal injury	04 - Sideswipe	01 - Dry	0	1	0	0
2022-06-25	2022	18:40	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	03 - Rear end	01 - Dry	0	0	0	0
2022-07-18	2022	16:51	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	01 - Daylight	01 - Traffic signal	0	02 - Non-fatal injury	03 - Rear end	01 - Dry	0	0	0	0
2022-10-24	2022	18:29	CUMMINGS AVE @ OGLIVIE RD (0009923)	01 - Clear	07 - Dark	01 - Traffic signal	0	02 - Non-fatal injury	05 - Turning movement	01 - Dry	0	0	0	0
2018-02-25	2018	10:00	CUMMINGS AVE @ DONALD ST (0009936)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	02 - Angle	06 - Ice	0	0	0	0
2018-04-30	2018	14:37	CUMMINGS AVE @ DONALD ST (0009936)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	03 - Rear end	01 - Dry	0	0	0	0
2018-09-17	2018	10:12	CUMMINGS AVE @ DONALD ST (0009936)	01 - Clear	01 - Daylight	01 - Traffic signal	0	02 - Non-fatal injury	05 - Turning movement	01 - Dry	0	0	0	0
2018-11-25	2018	2:45	CUMMINGS AVE @ DONALD ST (0009936)	04 - Freezing Rain	07 - Dark	01 - Traffic signal	0	03 - P.D. only	07 - SMV other	06 - Ice	0	0	0	0
2019-07-13	2019	10:30	CUMMINGS AVE @ DONALD ST (0009936)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	03 - Rear end	01 - Dry	0	0	0	0
2019-07-22	2019	15:16	CUMMINGS AVE @ DONALD ST (0009936)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	02 - Angle	01 - Dry	0	0	0	0
2020-01-10	2020	20:54	CUMMINGS AVE @ DONALD ST (0009936)	03 - Snow	07 - Dark	01 - Traffic signal	0	02 - Non-fatal injury	07 - SMV other	02 - Wet	0	0	0	0
2020-01-11	2020	14:44	CUMMINGS AVE @ DONALD ST (0009936)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	03 - Rear end	01 - Dry	0	0	0	0
2020-06-12	2020	21:14	CUMMINGS AVE @ DONALD ST (0009936)	01 - Clear	05 - Dusk	01 - Traffic signal	0	03 - P.D. only	04 - Sideswipe	01 - Dry	0	0	0	0
2021-10-15	2021	5:56	CUMMINGS AVE @ DONALD ST (0009936)	02 - Rain	07 - Dark	01 - Traffic signal	0	02 - Non-fatal injury	07 - SMV other	02 - Wet	0	0	0	1
2021-12-02	2021	15:35	CUMMINGS AVE @ DONALD ST (0009936)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	05 - Turning movement	02 - Wet	0	0	0	0
2021-12-20	2021	16:59	CUMMINGS AVE @ DONALD ST (0009936)	03 - Snow	07 - Dark	01 - Traffic signal	0	03 - P.D. only	05 - Turning movement	04 - Slush	0	0	0	0
2022-01-13	2022	22:25	CUMMINGS AVE @ DONALD ST (0009936)	01 - Clear	07 - Dark	01 - Traffic signal	0	02 - Non-fatal injury	07 - SMV other	02 - Wet	0	0	0	1
2018-02-21	2018	16:40	CUMMINGS AVE btwn OGLIVIE RD & WELDON DR ( _32A7UQ)	01 - Clear	01 - Daylight	10 - No control	0	03 - P.D. only	02 - Angle	05 - Packed snow	0	0	0	0
2018-06-16	2018	14:44	CUMMINGS AVE btwn OGLIVIE RD & WELDON DR ( _32A7UQ)	01 - Clear	01 - Daylight	10 - No control	0	03 - P.D. only	02 - Angle	01 - Dry	0	0	0	0
2019-10-25	2019	21:38	CUMMINGS AVE btwn OGLIVIE RD & WELDON DR ( _32A7UQ)	01 - Clear	07 - Dark	10 - No control	0	03 - P.D. only	02 - Angle	01 - Dry	0	0	0	0
2019-11-05	2019	18:55	CUMMINGS AVE btwn OGLIVIE RD & WELDON DR ( _32A7UQ)	01 - Clear	07 - Dark	10 - No control	0	03 - P.D. only	02 - Angle	01 - Dry	0	0	0	0
2019-11-27	2019	17:40	CUMMINGS AVE btwn OGLIVIE RD & WELDON DR ( _32A7UQ)	02 - Rain	07 - Dark	10 - No control	0	03 - P.D. only	05 - Turning movement	02 - Wet	0	0	0	0
2020-02-24	2020	16:11	CUMMINGS AVE btwn OGLIVIE RD & WELDON DR ( _32A7UQ)	01 - Clear	01 - Daylight	10 - No control	0	03 - P.D. only	02 - Angle	02 - Wet	0	0	0	0
2020-07-07	2020	15:00	CUMMINGS AVE btwn OGLIVIE RD & WELDON DR ( _32A7UQ)	01 - Clear	01 - Daylight	10 - No control	0	03 - P.D. only	02 - Angle	01 - Dry	0	0	0	0
2021-01-10	2021	11:53	CUMMINGS AVE btwn OGLIVIE RD & WELDON DR ( _32A7UQ)	01 - Clear	01 - Daylight	10 - No control	0	02 - Non-fatal injury	05 - Turning movement	01 - Dry	0	0	0	0
2021-05-20	2021	14:25	CUMMINGS AVE btwn OGLIVIE RD & WELDON DR ( _32A7UQ)	01 - Clear	01 - Daylight	10 - No control	0	03 - P.D. only	02 - Angle	01 - Dry	0	1	0	0
2021-08-05	2021	17:29	CUMMINGS AVE btwn OGLIVIE RD & WELDON DR ( _32A7UQ)	01 - Clear	01 - Daylight	10 - No control	0	03 - P.D. only	02 - Angle	01 - Dry	0	0	0	0
2018-10-25	2018	6:50	OGLIVIE RD btwn BEAULIEU PL & CUMMINGS AVE ( _54POOD)	01 - Clear	07 - Dark	10 - No control	0	02 - Non-fatal injury	02 - Angle	01 - Dry	0	0	1	0
2019-04-09	2019	14:14	OGLIVIE RD btwn BEAULIEU PL & CUMMINGS AVE ( _54POOD)	03										





## Transportation Services - Traffic Services Collision Details Report - Public Version

From: January 1, 2017 To: December 31, 2021

**Location:** CUMMINGS AVE @ DONALD ST

**Traffic Control:** Traffic signal

**Total Collisions:** 17

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2017-Jan-09, Mon,19:20	Clear	Turning movement	P.D. only	Dry	North	Turning left	Unknown	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-Apr-20, Thu,13:05	Clear	Turning movement	Non-fatal injury	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-Aug-07, Mon,16:06	Clear	Rear end	Non-fatal injury	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2017-Aug-08, Tue,13:20	Clear	Rear end	P.D. only	Dry	South	Going ahead	Passenger van	Other motor vehicle	0
					South	Stopped	Automobile, station wagon	Other motor vehicle	
2017-Nov-26, Sun,21:00	Drifting Snow	Angle	P.D. only	Ice	North	Unknown	Tow truck	Other motor vehicle	0
					East	Unknown	Automobile, station wagon	Other motor vehicle	
2018-Feb-25, Sun,10:00	Clear	Angle	P.D. only	Ice	South	Turning right	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Apr-30, Mon,14:37	Clear	Rear end	P.D. only	Dry	East	Turning right	Pick-up truck	Other motor vehicle	0
					East	Turning right	Automobile, station wagon	Other motor vehicle	
2018-Sep-17, Mon,10:12	Clear	Turning movement	Non-fatal injury	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Nov-25, Sun,02:45	Freezing Rain	SMV other	P.D. only	Ice	East	Turning right	Automobile, station wagon	Skidding/sliding	0
2019-Jul-13, Sat,10:30	Clear	Rear end	P.D. only	Dry	East	Unknown	Unknown	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Jul-22, Mon,15:16	Clear	Angle	P.D. only	Dry	East	Turning right	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2020-Jan-10, Fri,20:54	Snow	SMV other	Non-fatal injury	Wet	East	Turning right	Automobile, station wagon	Pedestrian	1
2020-Jan-11, Sat,14:44	Clear	Rear end	P.D. only	Dry	North	Unknown	Automobile, station wagon	Other motor vehicle	0
					North	Unknown	Automobile, station wagon	Other motor vehicle	

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## Transportation Services - Traffic Services Collision Details Report - Public Version

From: January 1, 2017 To: December 31, 2021

**Location:** CUMMINGS AVE @ DONALD ST

**Traffic Control:** Traffic signal

**Total Collisions:** 17

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2020-Jun-12, Fri,21:14	Clear	Sideswipe	P.D. only	Dry	South	Overtaking	Automobile, station wagon	Other motor vehicle	0
					South	Stopped	Pick-up truck	Other motor vehicle	
					North	Stopped	Automobile, station wagon	Other motor vehicle	
2021-Oct-15, Fri,05:56	Rain	SMV other	Non-fatal injury	Wet	North	Turning left	Pick-up truck	Pedestrian	1
2021-Dec-02, Thu,15:35	Clear	Turning movement	P.D. only	Wet	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Passenger van	Other motor vehicle	
2021-Dec-20, Mon,16:59	Snow	Turning movement	P.D. only	Slush	South	Turning right	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	

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## Transportation Services - Traffic Services Collision Details Report - Public Version

From: January 1, 2017 To: December 31, 2021

**Location:** CUMMINGS AVE @ OGILVIE RD

**Traffic Control:** Traffic signal

**Total Collisions:** 54

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2017-Jan-30, Mon,19:00	Clear	Rear end	P.D. only	Dry	West	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2017-Feb-08, Wed,16:20	Clear	Rear end	P.D. only	Loose snow	South	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					South	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
					South	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
2017-Feb-15, Wed,08:17	Snow	Turning movement	P.D. only	Loose snow	East	Making "U" turn	Automobile, station wagon	Other motor vehicle	0
					West	Slowing or stopping	Pick-up truck	Other motor vehicle	
2017-Mar-02, Thu,15:28	Clear	Rear end	P.D. only	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-Mar-08, Wed,10:45	Clear	Rear end	Non-fatal injury	Dry	West	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2017-Aug-02, Wed,12:40	Clear	Turning movement	P.D. only	Dry	South	Turning left	Automobile, station wagon	Other motor vehicle	0
					North	Turning right	Automobile, station wagon	Other motor vehicle	
2017-Aug-03, Thu,07:50	Clear	Turning movement	Non-fatal injury	Dry	West	Turning right	Automobile, station wagon	Cyclist	0
					West	Going ahead	Bicycle	Other motor vehicle	
2017-Aug-27, Sun,00:11	Clear	Angle	P.D. only	Dry	South	Going ahead	Police vehicle	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-Sep-08, Fri,08:37	Rain	Rear end	P.D. only	Wet	North	Unknown	Automobile, station wagon	Other motor vehicle	0
					North	Stopped	Automobile, station wagon	Other motor vehicle	
2017-Sep-12, Tue,12:30	Clear	Rear end	P.D. only	Dry	East	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					East	Stopped	Delivery van	Other motor vehicle	
2017-Sep-20, Wed,14:47	Clear	Sideswipe	Non-fatal injury	Dry	West	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Motorcycle	Other motor vehicle	

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## Transportation Services - Traffic Services Collision Details Report - Public Version

From: January 1, 2017 To: December 31, 2021

**Location:** CUMMINGS AVE @ OGILVIE RD

**Traffic Control:** Traffic signal

**Total Collisions:** 54

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2017-Oct-27, Fri,11:30	Clear	Turning movement	Non-fatal injury	Dry	West	Turning right	Automobile, station wagon	Cyclist	0
					West	Going ahead	Bicycle	Other motor vehicle	
2018-Mar-24, Sat,18:25	Clear	Rear end	Non-fatal injury	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Turning right	Passenger van	Other motor vehicle	
2018-Apr-12, Thu,11:01	Clear	Sideswipe	P.D. only	Dry	West	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Unknown	Other motor vehicle	
2018-May-05, Sat,18:14	Clear	Angle	P.D. only	Dry	South	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
					North	Stopped	Automobile, station wagon	Other motor vehicle	
2018-May-25, Fri,15:00	Clear	Sideswipe	P.D. only	Dry	West	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Jun-11, Mon,18:00	Clear	Turning movement	P.D. only	Dry	South	Turning left	Automobile, station wagon	Other motor vehicle	0
					North	Turning right	Automobile, station wagon	Other motor vehicle	
2018-Jul-23, Mon,09:30	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Aug-20, Mon,17:00	Clear	Turning movement	Non-fatal injury	Dry	West	Turning right	Automobile, station wagon	Cyclist	0
					West	Going ahead	Bicycle	Other motor vehicle	
2018-Sep-19, Wed,17:07	Clear	Turning movement	P.D. only	Dry	West	Turning right	Automobile, station wagon	Cyclist	0
					West	Going ahead	Bicycle	Other motor vehicle	
2018-Oct-10, Wed,15:15	Clear	Turning movement	P.D. only	Dry	West	Turning left	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Nov-21, Wed,16:10	Clear	Turning movement	P.D. only	Packed snow	East	Turning left	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	

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## Transportation Services - Traffic Services Collision Details Report - Public Version

From: January 1, 2017 To: December 31, 2021

**Location:** CUMMINGS AVE @ OGILVIE RD

**Traffic Control:** Traffic signal

**Total Collisions:** 54

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2018-Dec-08, Sat,18:00	Snow	Sideswipe	P.D. only	Loose snow	East	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					East	Turning right	Automobile, station wagon	Other motor vehicle	
2019-Jan-11, Fri,16:08	Clear	Sideswipe	P.D. only	Dry	East	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					East	Turning right	Automobile, station wagon	Other motor vehicle	
2019-Jan-23, Wed,12:30	Snow	Sideswipe	P.D. only	Packed snow	East	Changing lanes	Delivery van	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Jan-28, Mon,09:30	Clear	Other	P.D. only	Wet	South	Reversing	Pick-up truck	Other motor vehicle	0
					North	Stopped	Passenger van	Other motor vehicle	
2019-Feb-09, Sat,16:15	Clear	Rear end	P.D. only	Ice	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Mar-06, Wed,09:59	Clear	Rear end	Non-fatal injury	Wet	East	Slowing or stopping	Pick-up truck	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Mar-13, Wed,18:40	Snow	Angle	P.D. only	Packed snow	West	Turning right	Automobile, station wagon	Other motor vehicle	0
					South	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Mar-25, Mon,11:00	Clear	Rear end	P.D. only	Dry	West	Turning right	Automobile, station wagon	Other motor vehicle	0
					West	Turning right	Automobile, station wagon	Other motor vehicle	
2019-May-12, Sun,13:19	Clear	Turning movement	P.D. only	Dry	East	Turning left	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Jun-27, Thu,12:51	Clear	Angle	P.D. only	Dry	East	Turning left	Automobile, station wagon	Other motor vehicle	0
					North	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Jul-20, Sat,13:47	Clear	Rear end	P.D. only	Dry	West	Unknown	Unknown	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	

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## Transportation Services - Traffic Services Collision Details Report - Public Version

From: January 1, 2017 To: December 31, 2021

**Location:** CUMMINGS AVE @ OGILVIE RD

**Traffic Control:** Traffic signal

**Total Collisions:** 54

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2019-Jul-30, Tue,12:30	Rain	Angle	P.D. only	Wet	East	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Aug-01, Thu,18:04	Clear	Rear end	P.D. only	Dry	West	Slowing or stopping	Pick-up truck	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Aug-11, Sun,15:12	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Nov-16, Sat,21:55	Clear	Rear end	P.D. only	Ice	North	Unknown	Unknown	Other motor vehicle	0
					North	Stopped	Automobile, station wagon	Other motor vehicle	
					North	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Nov-25, Mon,09:53	Clear	Rear end	P.D. only	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2020-Jan-06, Mon,07:45	Snow	Turning movement	P.D. only	Ice	East	Turning left	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
2020-Jan-10, Fri,12:23	Clear	Rear end	P.D. only	Dry	West	Unknown	Unknown	Other motor vehicle	0
					West	Stopped	Pick-up truck	Other motor vehicle	
2020-Jan-11, Sat,14:55	Snow	Turning movement	P.D. only	Loose snow	North	Going ahead	Unknown	Other motor vehicle	0
					South	Turning left	Automobile, station wagon	Other motor vehicle	
2020-Feb-07, Fri,17:45	Snow	Sideswipe	P.D. only	Loose snow	West	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
2020-Mar-06, Fri,07:38	Snow	Rear end	P.D. only	Wet	East	Turning left	Pick-up truck	Other motor vehicle	0
					East	Turning left	Automobile, station wagon	Other motor vehicle	
2020-Jul-13, Mon,18:04	Clear	Turning movement	P.D. only	Dry	East	Turning left	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	

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## Transportation Services - Traffic Services Collision Details Report - Public Version

From: January 1, 2017 To: December 31, 2021

**Location:** CUMMINGS AVE @ OGILVIE RD

**Traffic Control:** Traffic signal

**Total Collisions:** 54

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2020-Aug-01, Sat,15:22	Clear	Turning movement	P.D. only	Dry	South	Turning left	Unknown	Other motor vehicle	0
					North	Going ahead	Automobile, station wagon	Other motor vehicle	
2020-Oct-11, Sun,15:40	Clear	Rear end	P.D. only	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Stopped	Pick-up truck	Other motor vehicle	
2020-Dec-11, Fri,18:16	Clear	Sideswipe	P.D. only	Dry	East	Changing lanes	Pick-up truck	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2021-Feb-24, Wed,17:58	Snow	Turning movement	Non-fatal injury	Packed snow	East	Turning left	Pick-up truck	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
2021-Jun-06, Sun,17:47	Clear	Angle	Non-fatal injury	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2021-Jun-08, Tue,18:01	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Pick-up truck	Other motor vehicle	
2021-Aug-20, Fri,19:40	Clear	Turning movement	P.D. only	Dry	South	Turning left	Delivery van	Other motor vehicle	0
					North	Going ahead	Pick-up truck	Other motor vehicle	
2021-Sep-30, Thu,23:10	Clear	Angle	Non-fatal injury	Dry	West	Going ahead	Passenger van	Other motor vehicle	0
					North	Turning left	Police vehicle	Other motor vehicle	
2021-Nov-06, Sat,14:42	Clear	Turning movement	Non-fatal injury	Dry	East	Making "U" turn	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
2021-Dec-02, Thu,12:19	Rain	Turning movement	P.D. only	Wet	West	Turning left	Pick-up truck	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	



## Transportation Services - Traffic Services Collision Details Report - Public Version

From: January 1, 2017 To: December 31, 2021

**Location:** CUMMINGS AVE btwn WELDON DR & OGILVIE RD

**Traffic Control:** No control

**Total Collisions:** 11

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2017-Mar-08, Wed,09:19	Clear	Rear end	P.D. only	Wet	North	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					North	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
					North	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Feb-21, Wed,16:40	Clear	Angle	P.D. only	Packed snow	East	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Jun-16, Sat,14:44	Clear	Angle	P.D. only	Dry	East	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Oct-25, Fri,21:38	Clear	Angle	P.D. only	Dry	East	Turning left	Automobile, station wagon	Other motor vehicle	0
					North	Going ahead	Passenger van	Other motor vehicle	
2019-Nov-05, Tue,18:55	Clear	Angle	P.D. only	Dry	East	Turning right	Unknown	Other motor vehicle	0
					South	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Nov-27, Wed,17:40	Rain	Turning movement	P.D. only	Wet	South	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Passenger van	Other motor vehicle	
2020-Feb-24, Mon,16:11	Clear	Angle	P.D. only	Wet	East	Turning left	Automobile, station wagon	Other motor vehicle	0
					North	Going ahead	Automobile, station wagon	Other motor vehicle	
					South	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
2020-Jul-07, Tue,15:00	Clear	Angle	P.D. only	Dry	East	Turning left	Pick-up truck	Other motor vehicle	0
					North	Going ahead	Delivery van	Other motor vehicle	
2021-Jan-10, Sun,11:53	Clear	Turning movement	Non-fatal injury	Dry	North	Turning left	Passenger van	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2021-May-20, Thu,14:25	Clear	Angle	P.D. only	Dry	East	Turning left	Bicycle	Other motor vehicle	0
					North	Going ahead	Automobile, station wagon	Cyclist	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2017 To: December 31, 2021

**Location:** CUMMINGS AVE btwn WELDON DR & OGILVIE RD

**Traffic Control:** No control

**Total Collisions:** 11

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2021-Aug-05, Thu, 17:29	Clear	Angle	P.D. only	Dry	East	Turning left	Pick-up truck	Other motor vehicle	0
					South	Going ahead	Pick-up truck	Other motor vehicle	

# Appendix E

TDM Checklist

**TDM-Supportive Development Design and Infrastructure Checklist:**  
*Non-Residential Developments (office, institutional, retail or industrial)*

Legend	
REQUIRED	The Official Plan or Zoning By-law provides related guidance that must be followed
BASIC	The measure is generally feasible and effective, and in most cases would benefit the development and its users
BETTER	The measure could maximize support for users of sustainable modes, and optimize development performance

TDM-supportive design & infrastructure measures: <i>Non-residential developments</i>		Check if completed & add descriptions, explanations or plan/drawing references
<b>1. WALKING &amp; CYCLING: ROUTES</b>		
<b>1.1 Building location &amp; access points</b>		
BASIC	1.1.1 Locate building close to the street, and do not locate parking areas between the street and building entrances	<input checked="" type="checkbox"/>
BASIC	1.1.2 Locate building entrances in order to minimize walking distances to sidewalks and transit stops/stations	<input checked="" type="checkbox"/>
BASIC	1.1.3 Locate building doors and windows to ensure visibility of pedestrians from the building, for their security and comfort	<input checked="" type="checkbox"/>
<b>1.2 Facilities for walking &amp; cycling</b>		
REQUIRED	1.2.1 Provide convenient, direct access to stations or major stops along rapid transit routes within 600 metres; minimize walking distances from buildings to rapid transit; provide pedestrian-friendly, weather-protected (where possible) environment between rapid transit accesses and building entrances; ensure quality linkages from sidewalks through building entrances to integrated stops/stations (see <i>Official Plan policy 4.3.3</i> )	<input checked="" type="checkbox"/>
REQUIRED	1.2.2 Provide safe, direct and attractive pedestrian access from public sidewalks to building entrances through such measures as: reducing distances between public sidewalks and major building entrances; providing walkways from public streets to major building entrances; within a site, providing walkways along the front of adjoining buildings, between adjacent buildings, and connecting areas where people may congregate, such as courtyards and transit stops; and providing weather protection through canopies, colonnades, and other design elements wherever possible (see <i>Official Plan policy 4.3.12</i> )	<input checked="" type="checkbox"/>

TDM-supportive design & infrastructure measures: <i>Non-residential developments</i>		Check if completed & add descriptions, explanations or plan/drawing references
REQUIRED	1.2.3 Provide sidewalks of smooth, well-drained walking surfaces of contrasting materials or treatments to differentiate pedestrian areas from vehicle areas, and provide marked pedestrian crosswalks at intersection sidewalks (see <i>Official Plan policy 4.3.10</i> )	<input checked="" type="checkbox"/>
REQUIRED	1.2.4 Make sidewalks and open space areas easily accessible through features such as gradual grade transition, depressed curbs at street corners and convenient access to extra-wide parking spaces and ramps (see <i>Official Plan policy 4.3.10</i> )	<input checked="" type="checkbox"/>
REQUIRED	1.2.5 Include adequately spaced inter-block/street cycling and pedestrian connections to facilitate travel by active transportation. Provide links to the existing or planned network of public sidewalks, multi-use pathways and on-road cycle routes. Where public sidewalks and multi-use pathways intersect with roads, consider providing traffic control devices to give priority to cyclists and pedestrians (see <i>Official Plan policy 4.3.11</i> )	<input checked="" type="checkbox"/>
BASIC	1.2.6 Provide safe, direct and attractive walking routes from building entrances to nearby transit stops	<input type="checkbox"/>
BASIC	1.2.7 Ensure that walking routes to transit stops are secure, visible, lighted, shaded and wind-protected wherever possible	<input type="checkbox"/>
BASIC	1.2.8 Design roads used for access or circulation by cyclists using a target operating speed of no more than 30 km/h, or provide a separated cycling facility	<input type="checkbox"/>
<b>1.3 Amenities for walking &amp; cycling</b>		
BASIC	1.3.1 Provide lighting, landscaping and benches along walking and cycling routes between building entrances and streets, sidewalks and trails	<input type="checkbox"/>
BASIC	1.3.2 Provide wayfinding signage for site access (where required, e.g. when multiple buildings or entrances exist) and egress (where warranted, such as when directions to reach transit stops/stations, trails or other common destinations are not obvious)	<input type="checkbox"/>

TDM-supportive design & infrastructure measures: <i>Non-residential developments</i>		Check if completed & add descriptions, explanations or plan/drawing references
<b>2. WALKING &amp; CYCLING: END-OF-TRIP FACILITIES</b>		
<b>2.1 Bicycle parking</b>		
REQUIRED	2.1.1 Provide bicycle parking in highly visible and lighted areas, sheltered from the weather wherever possible (see <i>Official Plan policy 4.3.6</i> )	<input checked="" type="checkbox"/>
REQUIRED	2.1.2 Provide the number of bicycle parking spaces specified for various land uses in different parts of Ottawa; provide convenient access to main entrances or well-used areas (see <i>Zoning By-law Section 111</i> )	<input type="checkbox"/>
REQUIRED	2.1.3 Ensure that bicycle parking spaces and access aisles meet minimum dimensions; that no more than 50% of spaces are vertical spaces; and that parking racks are securely anchored (see <i>Zoning By-law Section 111</i> )	<input checked="" type="checkbox"/>
BASIC	2.1.4 Provide bicycle parking spaces equivalent to the expected number of commuter cyclists (assuming the cycling mode share target is met), plus the expected peak number of customer/visitor cyclists	<input type="checkbox"/>
BETTER	2.1.5 Provide bicycle parking spaces equivalent to the expected number of commuter and customer/visitor cyclists, plus an additional buffer (e.g. 25 percent extra) to encourage other cyclists and ensure adequate capacity in peak cycling season	<input type="checkbox"/>
<b>2.2 Secure bicycle parking</b>		
REQUIRED	2.2.1 Where more than 50 bicycle parking spaces are provided for a single office building, locate at least 25% of spaces within a building/structure, a secure area (e.g. supervised parking lot or enclosure) or bicycle lockers (see <i>Zoning By-law Section 111</i> )	<input checked="" type="checkbox"/>
BETTER	2.2.2 Provide secure bicycle parking spaces equivalent to the expected number of commuter cyclists (assuming the cycling mode share target is met)	<input type="checkbox"/>
<b>2.3 Shower &amp; change facilities</b>		
BASIC	2.3.1 Provide shower and change facilities for the use of active commuters	<input type="checkbox"/>
BETTER	2.3.2 In addition to shower and change facilities, provide dedicated lockers, grooming stations, drying racks and laundry facilities for the use of active commuters	<input type="checkbox"/>
<b>2.4 Bicycle repair station</b>		
BETTER	2.4.1 Provide a permanent bike repair station, with commonly used tools and an air pump, adjacent to the main bicycle parking area (or secure bicycle parking area, if provided)	<input type="checkbox"/>

TDM-supportive design & infrastructure measures: <i>Non-residential developments</i>		Check if completed & add descriptions, explanations or plan/drawing references
<b>3. TRANSIT</b>		
<b>3.1 Customer amenities</b>		
BASIC	3.1.1 Provide shelters, lighting and benches at any on-site transit stops	<input type="checkbox"/>
BASIC	3.1.2 Where the site abuts an off-site transit stop and insufficient space exists for a transit shelter in the public right-of-way, protect land for a shelter and/or install a shelter	<input type="checkbox"/>
BETTER	3.1.3 Provide a secure and comfortable interior waiting area by integrating any on-site transit stops into the building	<input type="checkbox"/>
<b>4. RIDESHARING</b>		
<b>4.1 Pick-up &amp; drop-off facilities</b>		
BASIC	4.1.1 Provide a designated area for carpool drivers (plus taxis and ride-hailing services) to drop off or pick up passengers without using fire lanes or other no-stopping zones	<input type="checkbox"/>
<b>4.2 Carpool parking</b>		
BASIC	4.2.1 Provide signed parking spaces for carpools in a priority location close to a major building entrance, sufficient in number to accommodate the mode share target for carpools	<input type="checkbox"/>
BETTER	4.2.2 At large developments, provide spaces for carpools in a separate, access-controlled parking area to simplify enforcement	<input type="checkbox"/>
<b>5. CARSHARING &amp; BIKESHARING</b>		
<b>5.1 Carshare parking spaces</b>		
BETTER	5.1.1 Provide carshare parking spaces in permitted non-residential zones, occupying either required or provided parking spaces (see <i>Zoning By-law Section 94</i> )	<input checked="" type="checkbox"/>
<b>5.2 Bikeshare station location</b>		
BETTER	5.2.1 Provide a designated bikeshare station area near a major building entrance, preferably lighted and sheltered with a direct walkway connection	<input type="checkbox"/>



TDM-supportive design & infrastructure measures: <i>Non-residential developments</i>		Check if completed & add descriptions, explanations or plan/drawing references
<b>6. PARKING</b>		
<b>6.1 Number of parking spaces</b>		
REQUIRED	6.1.1 Do not provide more parking than permitted by zoning, nor less than required by zoning, unless a variance is being applied for	<input checked="" type="checkbox"/>
BASIC	6.1.2 Provide parking for long-term and short-term users that is consistent with mode share targets, considering the potential for visitors to use off-site public parking	<input type="checkbox"/>
BASIC	6.1.3 Where a site features more than one use, provide shared parking and reduce the cumulative number of parking spaces accordingly (see <i>Zoning By-law Section 104</i> )	<input type="checkbox"/>
BETTER	6.1.4 Reduce the minimum number of parking spaces required by zoning by one space for each 13 square metres of gross floor area provided as shower rooms, change rooms, locker rooms and other facilities for cyclists in conjunction with bicycle parking (see <i>Zoning By-law Section 111</i> )	<input type="checkbox"/>
<b>6.2 Separate long-term &amp; short-term parking areas</b>		
BETTER	6.2.1 Separate short-term and long-term parking areas using signage or physical barriers, to permit access controls and simplify enforcement (i.e. to discourage employees from parking in visitor spaces, and vice versa)	<input type="checkbox"/>
<b>7. OTHER</b>		
<b>7.1 On-site amenities to minimize off-site trips</b>		
BETTER	7.1.1 Provide on-site amenities to minimize mid-day or mid-commute errands	<input type="checkbox"/>

**TDM-Supportive Development Design and Infrastructure Checklist:  
Residential Developments (multi-family or condominium)**

Legend	
REQUIRED	The Official Plan or Zoning By-law provides related guidance that must be followed
BASIC	The measure is generally feasible and effective, and in most cases would benefit the development and its users
BETTER	The measure could maximize support for users of sustainable modes, and optimize development performance

TDM-supportive design & infrastructure measures: <i>Residential developments</i>		Check if completed & add descriptions, explanations or plan/drawing references
<b>1. WALKING &amp; CYCLING: ROUTES</b>		
<b>1.1 Building location &amp; access points</b>		
BASIC	1.1.1 Locate building close to the street, and do not locate parking areas between the street and building entrances	<input checked="" type="checkbox"/>
BASIC	1.1.2 Locate building entrances in order to minimize walking distances to sidewalks and transit stops/stations	<input checked="" type="checkbox"/>
BASIC	1.1.3 Locate building doors and windows to ensure visibility of pedestrians from the building, for their security and comfort	<input checked="" type="checkbox"/>
<b>1.2 Facilities for walking &amp; cycling</b>		
REQUIRED	1.2.1 Provide convenient, direct access to stations or major stops along rapid transit routes within 600 metres; minimize walking distances from buildings to rapid transit; provide pedestrian-friendly, weather-protected (where possible) environment between rapid transit accesses and building entrances; ensure quality linkages from sidewalks through building entrances to integrated stops/stations (see <i>Official Plan policy 4.3.3</i> )	<input checked="" type="checkbox"/>
REQUIRED	1.2.2 Provide safe, direct and attractive pedestrian access from public sidewalks to building entrances through such measures as: reducing distances between public sidewalks and major building entrances; providing walkways from public streets to major building entrances; within a site, providing walkways along the front of adjoining buildings, between adjacent buildings, and connecting areas where people may congregate, such as courtyards and transit stops; and providing weather protection through canopies, colonnades, and other design elements wherever possible (see <i>Official Plan policy 4.3.12</i> )	<input checked="" type="checkbox"/>

TDM-supportive design & infrastructure measures: <i>Residential developments</i>		Check if completed & add descriptions, explanations or plan/drawing references
REQUIRED	1.2.3 Provide sidewalks of smooth, well-drained walking surfaces of contrasting materials or treatments to differentiate pedestrian areas from vehicle areas, and provide marked pedestrian crosswalks at intersection sidewalks (see <i>Official Plan policy 4.3.10</i> )	<input checked="" type="checkbox"/>
REQUIRED	1.2.4 Make sidewalks and open space areas easily accessible through features such as gradual grade transition, depressed curbs at street corners and convenient access to extra-wide parking spaces and ramps (see <i>Official Plan policy 4.3.10</i> )	<input checked="" type="checkbox"/>
REQUIRED	1.2.5 Include adequately spaced inter-block/street cycling and pedestrian connections to facilitate travel by active transportation. Provide links to the existing or planned network of public sidewalks, multi-use pathways and on-road cycle routes. Where public sidewalks and multi-use pathways intersect with roads, consider providing traffic control devices to give priority to cyclists and pedestrians (see <i>Official Plan policy 4.3.11</i> )	<input checked="" type="checkbox"/>
BASIC	1.2.6 Provide safe, direct and attractive walking routes from building entrances to nearby transit stops	<input checked="" type="checkbox"/>
BASIC	1.2.7 Ensure that walking routes to transit stops are secure, visible, lighted, shaded and wind-protected wherever possible	<input type="checkbox"/>
BASIC	1.2.8 Design roads used for access or circulation by cyclists using a target operating speed of no more than 30 km/h, or provide a separated cycling facility	<input type="checkbox"/>
<b>1.3 Amenities for walking &amp; cycling</b>		
BASIC	1.3.1 Provide lighting, landscaping and benches along walking and cycling routes between building entrances and streets, sidewalks and trails	<input type="checkbox"/>
BASIC	1.3.2 Provide wayfinding signage for site access (where required, e.g. when multiple buildings or entrances exist) and egress (where warranted, such as when directions to reach transit stops/stations, trails or other common destinations are not obvious)	<input type="checkbox"/>

TDM-supportive design & infrastructure measures: <i>Residential developments</i>		Check if completed & add descriptions, explanations or plan/drawing references
<b>2. WALKING &amp; CYCLING: END-OF-TRIP FACILITIES</b>		
<b>2.1 Bicycle parking</b>		
REQUIRED	2.1.1 Provide bicycle parking in highly visible and lighted areas, sheltered from the weather wherever possible (see <i>Official Plan policy 4.3.6</i> )	<input checked="" type="checkbox"/>
REQUIRED	2.1.2 Provide the number of bicycle parking spaces specified for various land uses in different parts of Ottawa; provide convenient access to main entrances or well-used areas (see <i>Zoning By-law Section 111</i> )	<input checked="" type="checkbox"/>
REQUIRED	2.1.3 Ensure that bicycle parking spaces and access aisles meet minimum dimensions; that no more than 50% of spaces are vertical spaces; and that parking racks are securely anchored (see <i>Zoning By-law Section 111</i> )	<input checked="" type="checkbox"/>
BASIC	2.1.4 Provide bicycle parking spaces equivalent to the expected number of resident-owned bicycles, plus the expected peak number of visitor cyclists	<input type="checkbox"/>
<b>2.2 Secure bicycle parking</b>		
REQUIRED	2.2.1 Where more than 50 bicycle parking spaces are provided for a single residential building, locate at least 25% of spaces within a building/structure, a secure area (e.g. supervised parking lot or enclosure) or bicycle lockers (see <i>Zoning By-law Section 111</i> )	<input checked="" type="checkbox"/>
BETTER	2.2.2 Provide secure bicycle parking spaces equivalent to at least the number of units at condominiums or multi-family residential developments	<input type="checkbox"/>
<b>2.3 Bicycle repair station</b>		
BETTER	2.3.1 Provide a permanent bike repair station, with commonly used tools and an air pump, adjacent to the main bicycle parking area (or secure bicycle parking area, if provided)	<input type="checkbox"/>
<b>3. TRANSIT</b>		
<b>3.1 Customer amenities</b>		
BASIC	3.1.1 Provide shelters, lighting and benches at any on-site transit stops	<input type="checkbox"/>
BASIC	3.1.2 Where the site abuts an off-site transit stop and insufficient space exists for a transit shelter in the public right-of-way, protect land for a shelter and/or install a shelter	<input type="checkbox"/>
BETTER	3.1.3 Provide a secure and comfortable interior waiting area by integrating any on-site transit stops into the building	<input type="checkbox"/>

TDM-supportive design & infrastructure measures: <i>Residential developments</i>		Check if completed & add descriptions, explanations or plan/drawing references
<b>4. RIDESHARING</b>		
<b>4.1 Pick-up &amp; drop-off facilities</b>		
BASIC	4.1.1 Provide a designated area for carpool drivers (plus taxis and ride-hailing services) to drop off or pick up passengers without using fire lanes or other no-stopping zones	<input checked="" type="checkbox"/>
<b>5. CARSHARING &amp; BIKESHARING</b>		
<b>5.1 Carshare parking spaces</b>		
BETTER	5.1.1 Provide up to three carshare parking spaces in an R3, R4 or R5 Zone for specified residential uses (see <i>Zoning By-law Section 94</i> )	<input type="checkbox"/>
<b>5.2 Bikeshare station location</b>		
BETTER	5.2.1 Provide a designated bikeshare station area near a major building entrance, preferably lighted and sheltered with a direct walkway connection	<input type="checkbox"/>
<b>6. PARKING</b>		
<b>6.1 Number of parking spaces</b>		
REQUIRED	6.1.1 Do not provide more parking than permitted by zoning, nor less than required by zoning, unless a variance is being applied for	<input checked="" type="checkbox"/>
BASIC	6.1.2 Provide parking for long-term and short-term users that is consistent with mode share targets, considering the potential for visitors to use off-site public parking	<input type="checkbox"/>
BASIC	6.1.3 Where a site features more than one use, provide shared parking and reduce the cumulative number of parking spaces accordingly (see <i>Zoning By-law Section 104</i> )	<input type="checkbox"/>
BETTER	6.1.4 Reduce the minimum number of parking spaces required by zoning by one space for each 13 square metres of gross floor area provided as shower rooms, change rooms, locker rooms and other facilities for cyclists in conjunction with bicycle parking (see <i>Zoning By-law Section 111</i> )	<input type="checkbox"/>
<b>6.2 Separate long-term &amp; short-term parking areas</b>		
BETTER	6.2.1 Provide separate areas for short-term and long-term parking (using signage or physical barriers) to permit access controls and simplify enforcement (i.e. to discourage residents from parking in visitor spaces, and vice versa)	<input checked="" type="checkbox"/>

**TDM Measures Checklist:**  
*Non-Residential Developments (office, institutional, retail or industrial)*

Legend	
BASIC	The measure is generally feasible and effective, and in most cases would benefit the development and its users
BETTER	The measure could maximize support for users of sustainable modes, and optimize development performance
★	The measure is one of the most dependably effective tools to encourage the use of sustainable modes

TDM measures: <i>Non-residential developments</i>		Check if proposed & add descriptions
<b>1. TDM PROGRAM MANAGEMENT</b>		
<b>1.1 Program coordinator</b>		
BASIC	★ 1.1.1 Designate an internal coordinator, or contract with an external coordinator	<input type="checkbox"/>
<b>1.2 Travel surveys</b>		
BETTER	1.2.1 Conduct periodic surveys to identify travel-related behaviours, attitudes, challenges and solutions, and to track progress	<input type="checkbox"/>
<b>2. WALKING AND CYCLING</b>		
<b>2.1 Information on walking/cycling routes &amp; destinations</b>		
BASIC	2.1.1 Display local area maps with walking/cycling access routes and key destinations at major entrances	<input checked="" type="checkbox"/>
<b>2.2 Bicycle skills training</b>		
<i>Commuter travel</i>		
BETTER	★ 2.2.1 Offer on-site cycling courses for commuters, or subsidize off-site courses	<input type="checkbox"/>
<b>2.3 Valet bike parking</b>		
<i>Visitor travel</i>		
BETTER	2.3.1 Offer secure valet bike parking during public events when demand exceeds fixed supply (e.g. for festivals, concerts, games)	<input type="checkbox"/>

TDM measures: <i>Non-residential developments</i>		Check if proposed & add descriptions
<b>3. TRANSIT</b>		
<b>3.1 Transit information</b>		
BASIC	3.1.1 Display relevant transit schedules and route maps at entrances	<input checked="" type="checkbox"/>
BASIC	3.1.2 Provide online links to OC Transpo and STO information	<input type="checkbox"/>
BETTER	3.1.3 Provide real-time arrival information display at entrances	<input type="checkbox"/>
<b>3.2 Transit fare incentives</b>		
<i>Commuter travel</i>		
BETTER	3.2.1 Offer preloaded PRESTO cards to encourage commuters to use transit	<input type="checkbox"/>
BETTER	★ 3.2.2 Subsidize or reimburse monthly transit pass purchases by employees	<input type="checkbox"/>
<i>Visitor travel</i>		
BETTER	3.2.3 Arrange inclusion of same-day transit fare in price of tickets (e.g. for festivals, concerts, games)	<input type="checkbox"/>
<b>3.3 Enhanced public transit service</b>		
<i>Commuter travel</i>		
BETTER	3.3.1 Contract with OC Transpo to provide enhanced transit services (e.g. for shift changes, weekends)	<input type="checkbox"/>
<i>Visitor travel</i>		
BETTER	3.3.2 Contract with OC Transpo to provide enhanced transit services (e.g. for festivals, concerts, games)	<input type="checkbox"/>
<b>3.4 Private transit service</b>		
<i>Commuter travel</i>		
BETTER	3.4.1 Provide shuttle service when OC Transpo cannot offer sufficient quality or capacity to serve demand (e.g. for shift changes, weekends)	<input type="checkbox"/>
<i>Visitor travel</i>		
BETTER	3.4.2 Provide shuttle service when OC Transpo cannot offer sufficient quality or capacity to serve demand (e.g. for festivals, concerts, games)	<input type="checkbox"/>

TDM measures: <i>Non-residential developments</i>		Check if proposed & add descriptions
<b>4. RIDESHARING</b>		
<b>4.1 Ridematching service</b>		
<i>Commuter travel</i>		
BASIC ★	4.1.1 Provide a dedicated ridematching portal at OttawaRideMatch.com	<input type="checkbox"/>
<b>4.2 Carpool parking price incentives</b>		
<i>Commuter travel</i>		
BETTER	4.2.1 Provide discounts on parking costs for registered carpools	<input type="checkbox"/>
<b>4.3 Vanpool service</b>		
<i>Commuter travel</i>		
BETTER	4.3.1 Provide a vanpooling service for long-distance commuters	<input type="checkbox"/>
<b>5. CARSHARING &amp; BIKESHARING</b>		
<b>5.1 Bikeshare stations &amp; memberships</b>		
BETTER	5.1.1 Contract with provider to install on-site bikeshare station for use by commuters and visitors	<input type="checkbox"/>
<i>Commuter travel</i>		
BETTER	5.1.2 Provide employees with bikeshare memberships for local business travel	<input type="checkbox"/>
<b>5.2 Carshare vehicles &amp; memberships</b>		
<i>Commuter travel</i>		
BETTER	5.2.1 Contract with provider to install on-site carshare vehicles and promote their use by tenants	<input type="checkbox"/>
BETTER	5.2.2 Provide employees with carshare memberships for local business travel	<input type="checkbox"/>
<b>6. PARKING</b>		
<b>6.1 Priced parking</b>		
<i>Commuter travel</i>		
BASIC ★	6.1.1 Charge for long-term parking (daily, weekly, monthly)	<input type="checkbox"/>
BASIC	6.1.2 Unbundle parking cost from lease rates at multi-tenant sites	<input type="checkbox"/>
<i>Visitor travel</i>		
BETTER	6.1.3 Charge for short-term parking (hourly)	<input type="checkbox"/>

TDM measures: <i>Non-residential developments</i>		Check if proposed & add descriptions
<b>7. TDM MARKETING &amp; COMMUNICATIONS</b>		
<b>7.1 Multimodal travel information</b>		
<i>Commuter travel</i>		
BASIC ★	7.1.1 Provide a multimodal travel option information package to new/relocating employees and students	<input checked="" type="checkbox"/>
<i>Visitor travel</i>		
BETTER ★	7.1.2 Include multimodal travel option information in invitations or advertising that attract visitors or customers (e.g. for festivals, concerts, games)	<input type="checkbox"/>
<b>7.2 Personalized trip planning</b>		
<i>Commuter travel</i>		
BETTER ★	7.2.1 Offer personalized trip planning to new/relocating employees	<input type="checkbox"/>
<b>7.3 Promotions</b>		
<i>Commuter travel</i>		
BETTER	7.3.1 Deliver promotions and incentives to maintain awareness, build understanding, and encourage trial of sustainable modes	<input type="checkbox"/>
<b>8. OTHER INCENTIVES &amp; AMENITIES</b>		
<b>8.1 Emergency ride home</b>		
<i>Commuter travel</i>		
BETTER ★	8.1.1 Provide emergency ride home service to non-driving commuters	<input type="checkbox"/>
<b>8.2 Alternative work arrangements</b>		
<i>Commuter travel</i>		
BASIC ★	8.2.1 Encourage flexible work hours	<input type="checkbox"/>
BETTER	8.2.2 Encourage compressed workweeks	<input type="checkbox"/>
BETTER ★	8.2.3 Encourage telework	<input type="checkbox"/>
<b>8.3 Local business travel options</b>		
<i>Commuter travel</i>		
BASIC ★	8.3.1 Provide local business travel options that minimize the need for employees to bring a personal car to work	<input type="checkbox"/>
<b>8.4 Commuter incentives</b>		
<i>Commuter travel</i>		
BETTER	8.4.1 Offer employees a taxable, mode-neutral commuting allowance	<input type="checkbox"/>
<b>8.5 On-site amenities</b>		
<i>Commuter travel</i>		
BETTER	8.5.1 Provide on-site amenities/services to minimize mid-day or mid-commute errands	<input type="checkbox"/>

**TDM Measures Checklist:**  
*Residential Developments (multi-family, condominium or subdivision)*

Legend	
<b>BASIC</b>	The measure is generally feasible and effective, and in most cases would benefit the development and its users
<b>BETTER</b>	The measure could maximize support for users of sustainable modes, and optimize development performance
<b>★</b>	The measure is one of the most dependably effective tools to encourage the use of sustainable modes

TDM measures: Residential developments		Check if proposed & add descriptions
<b>1. TDM PROGRAM MANAGEMENT</b>		
<b>1.1 Program coordinator</b>		
<b>BASIC</b> ★	1.1.1 Designate an internal coordinator, or contract with an external coordinator	<input type="checkbox"/>
<b>1.2 Travel surveys</b>		
<b>BETTER</b>	1.2.1 Conduct periodic surveys to identify travel-related behaviours, attitudes, challenges and solutions, and to track progress	<input type="checkbox"/>
<b>2. WALKING AND CYCLING</b>		
<b>2.1 Information on walking/cycling routes &amp; destinations</b>		
<b>BASIC</b>	2.1.1 Display local area maps with walking/cycling access routes and key destinations at major entrances ( <i>multi-family, condominium</i> )	<input checked="" type="checkbox"/>
<b>2.2 Bicycle skills training</b>		
<b>BETTER</b>	2.2.1 Offer on-site cycling courses for residents, or subsidize off-site courses	<input type="checkbox"/>

TDM measures: Residential developments		Check if proposed & add descriptions
<b>3. TRANSIT</b>		
<b>3.1 Transit information</b>		
<b>BASIC</b>	3.1.1 Display relevant transit schedules and route maps at entrances ( <i>multi-family, condominium</i> )	<input checked="" type="checkbox"/>
<b>BETTER</b>	3.1.2 Provide real-time arrival information display at entrances ( <i>multi-family, condominium</i> )	<input type="checkbox"/>
<b>3.2 Transit fare incentives</b>		
<b>BASIC</b> ★	3.2.1 Offer PRESTO cards preloaded with one monthly transit pass on residence purchase/move-in, to encourage residents to use transit	<input type="checkbox"/>
<b>BETTER</b>	3.2.2 Offer at least one year of free monthly transit passes on residence purchase/move-in	<input checked="" type="checkbox"/>
<b>3.3 Enhanced public transit service</b>		
<b>BETTER</b> ★	3.3.1 Contract with OC Transpo to provide early transit services until regular services are warranted by occupancy levels ( <i>subdivision</i> )	<input type="checkbox"/>
<b>3.4 Private transit service</b>		
<b>BETTER</b>	3.4.1 Provide shuttle service for seniors homes or lifestyle communities (e.g. scheduled mall or supermarket runs)	<input type="checkbox"/>
<b>4. CARSHARING &amp; BIKESHARING</b>		
<b>4.1 Bikeshare stations &amp; memberships</b>		
<b>BETTER</b>	4.1.1 Contract with provider to install on-site bikeshare station ( <i>multi-family</i> )	<input type="checkbox"/>
<b>BETTER</b>	4.1.2 Provide residents with bikeshare memberships, either free or subsidized ( <i>multi-family</i> )	<input type="checkbox"/>
<b>4.2 Carshare vehicles &amp; memberships</b>		
<b>BETTER</b>	4.2.1 Contract with provider to install on-site carshare vehicles and promote their use by residents	<input checked="" type="checkbox"/>
<b>BETTER</b>	4.2.2 Provide residents with carshare memberships, either free or subsidized	<input type="checkbox"/>
<b>5. PARKING</b>		
<b>5.1 Priced parking</b>		
<b>BASIC</b> ★	5.1.1 Unbundle parking cost from purchase price ( <i>condominium</i> )	<input checked="" type="checkbox"/>
<b>BASIC</b> ★	5.1.2 Unbundle parking cost from monthly rent ( <i>multi-family</i> )	<input checked="" type="checkbox"/>

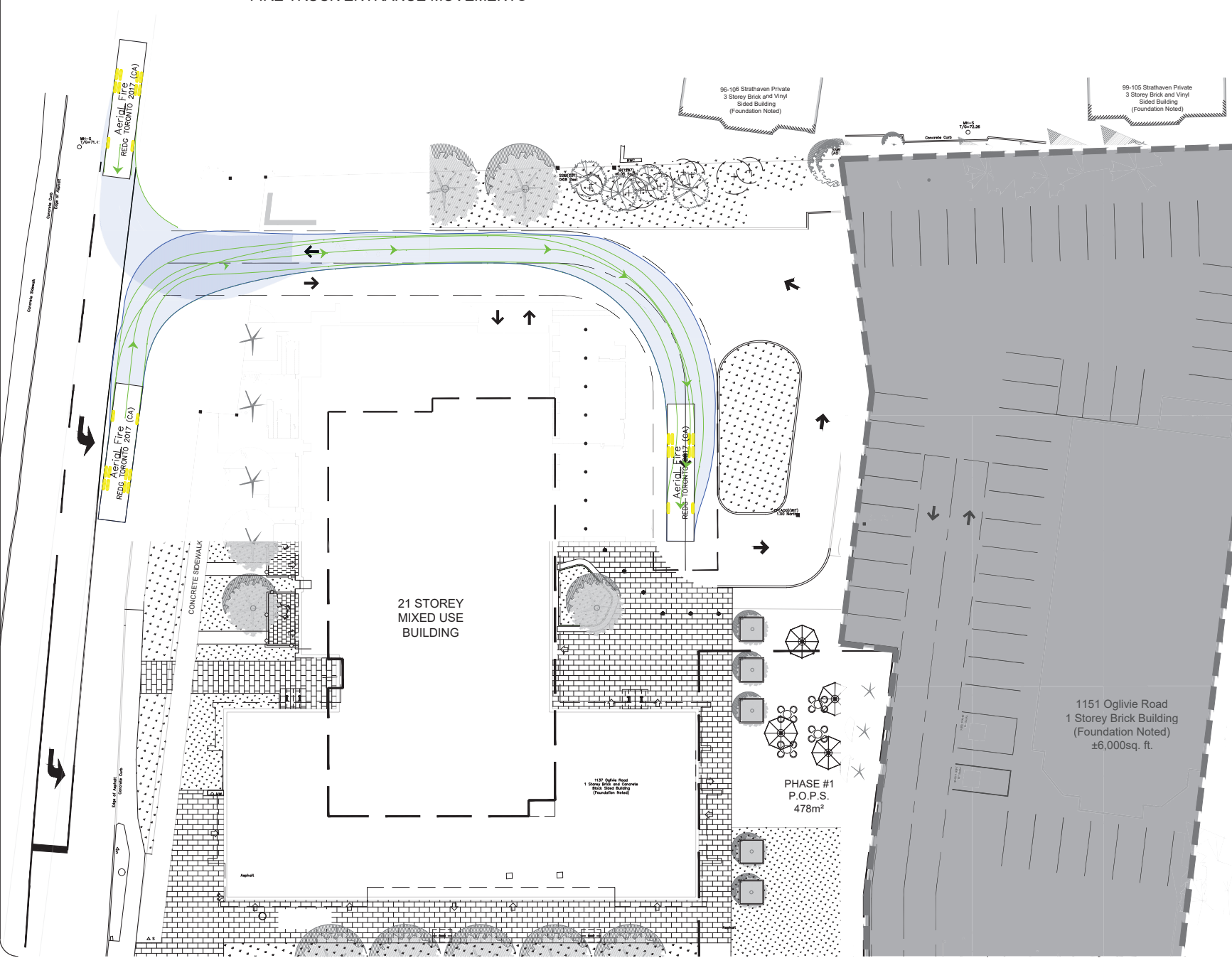
TDM measures: <i>Residential developments</i>		Check if proposed & add descriptions
<b>6. TDM MARKETING &amp; COMMUNICATIONS</b>		
<b>6.1 Multimodal travel information</b>		
BASIC ★	6.1.1 Provide a multimodal travel option information package to new residents	<input checked="" type="checkbox"/>
<b>6.2 Personalized trip planning</b>		
BETTER ★	6.2.1 Offer personalized trip planning to new residents	<input type="checkbox"/>

# Appendix F

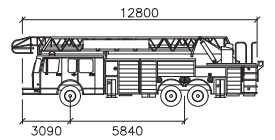
Turning Templates



# FIRE TRUCK ENTRANCE MOVEMENTS



Notes:



Aerial Fire

Width	: 2540
Track	: 2540
Lock to Lock Time	: 6.0
Steering Angle	: 37.0

04	Issued for Review	AN	2025-09-03
03	Issued for Review	AN	2025-08-18
02	Issued for Review	BB	2025-04-24
01	Issued for Review	AN	2025-02-20
REV.	DESCRIPTION:	BY:	DATE:
STATUS:			



**CGH Transportation**  
 6 Plaza Court  
 Ottawa, ON  
 K2H 7W1  
 (343) 999-9117

CLIENT: TCU Development Corp.

ARCHITECT:

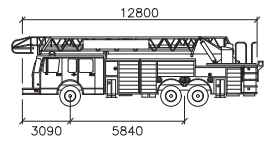
SITE: 1137 Ogilvie Road

TITLE: Phase 1 Turning Movements  
 Fire Truck Movements (01)

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
NTS	2025-09-03	AN	JK
PROJECT NO:	DRAWING NO:	REVISION:	
2023-139	001	04	

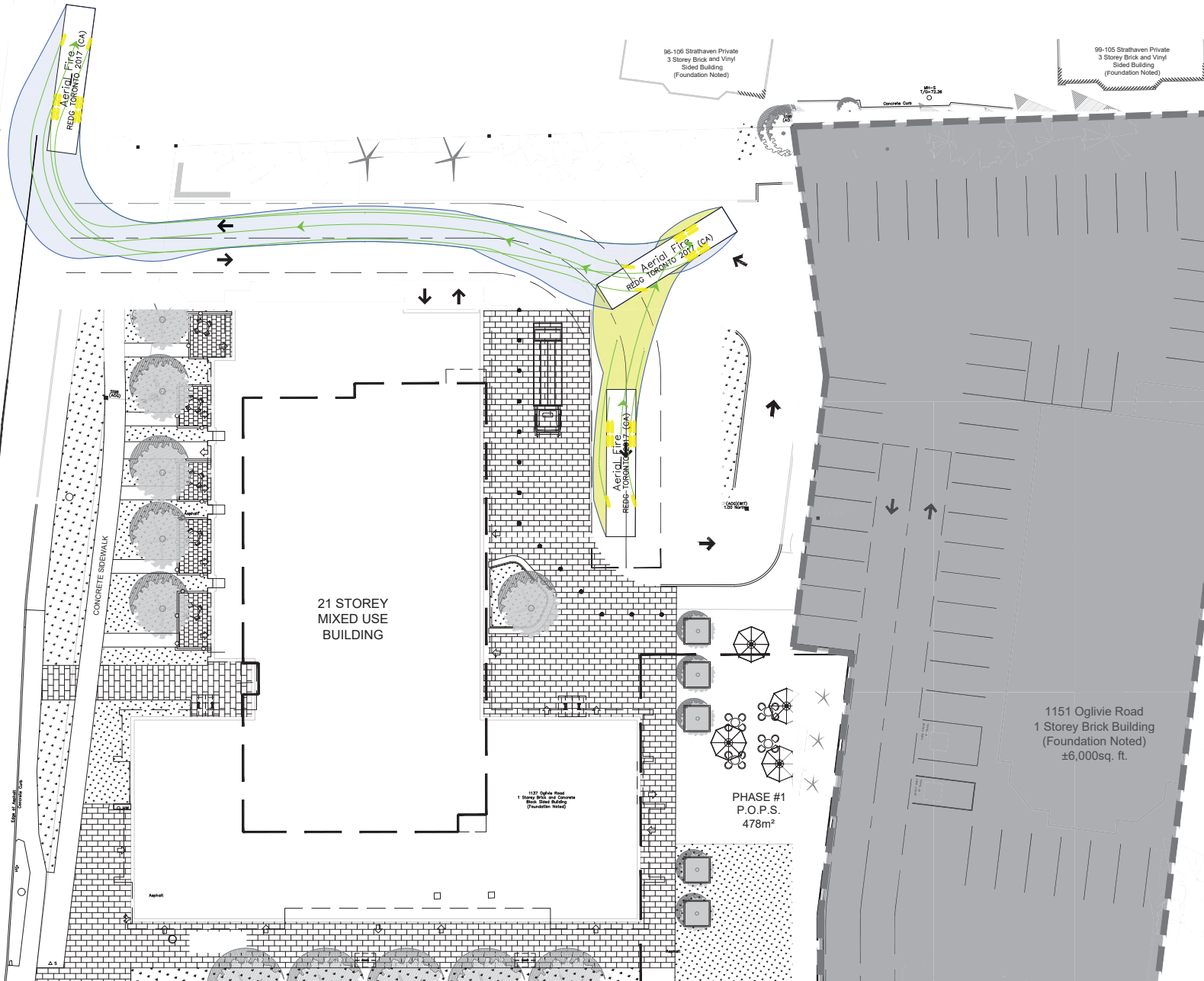
# FIRE TRUCK EXIT MOVEMENTS

Notes:



Aerial Fire

Width	: 2540
Track	: 2540
Lock to Lock Time	: 6.0
Steering Angle	: 37.0



04	Issued for Review	AN	2025-09-03
03	Issued for Review	AN	2025-08-18
02	Issued for Review	BB	2025-04-24
01	Issued for Review	AN	2025-02-20
REV.	DESCRIPTION:	BY:	DATE:
STATUS:			

**CGH Transportation**  
 6 Plaza Court  
 Ottawa, ON  
 K2H 7W1  
 (343) 999-9117

CLIENT: TCU Development Corp.

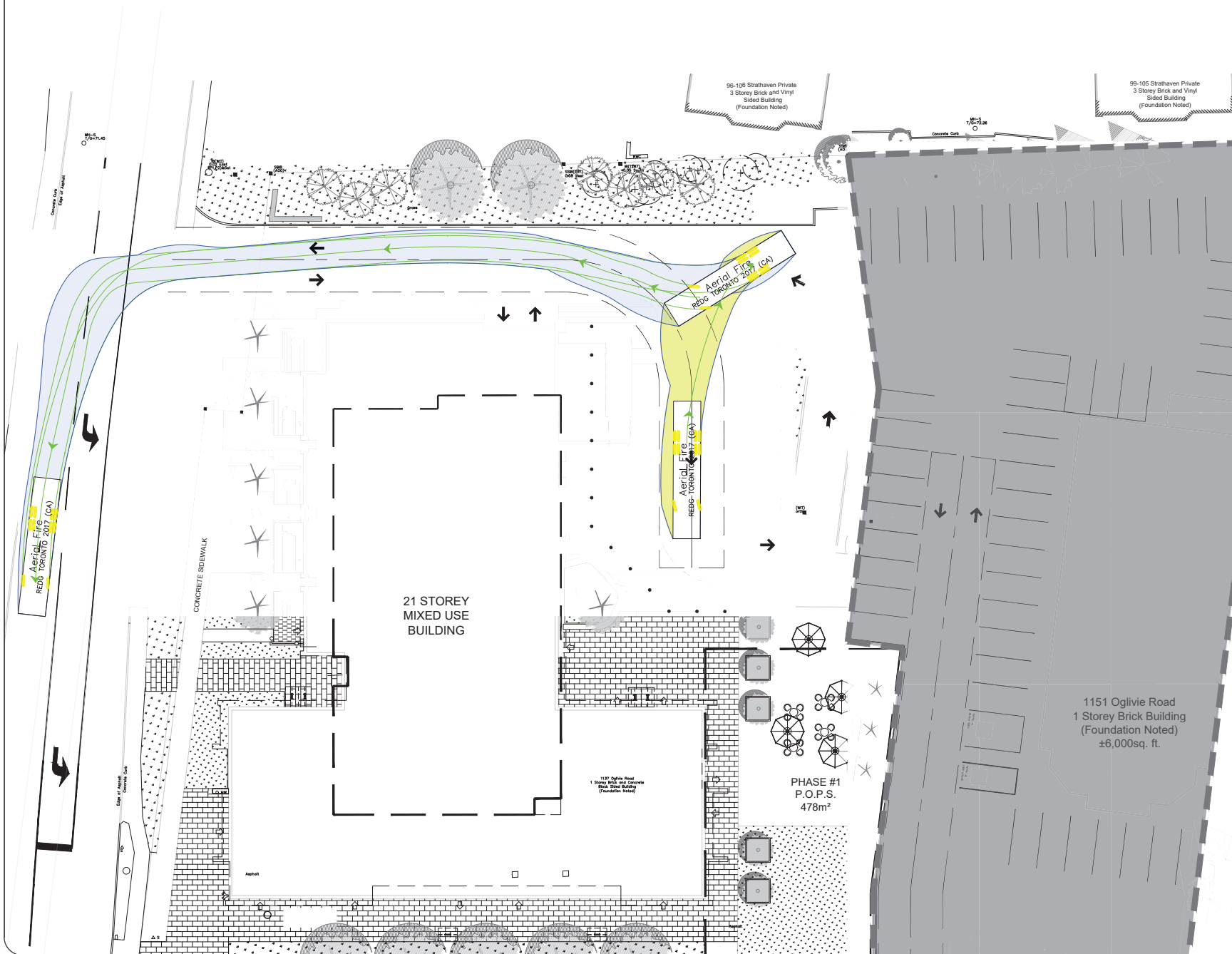
ARCHITECT:

SITE: 1137 Ogilvie Road

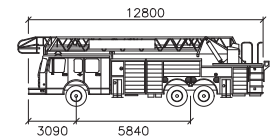
TITLE: Phase 1 Turning Movements  
 Fire Truck Movements (02)

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
NTS	2025-09-03	AN	JK
PROJECT NO:	DRAWING NO:	REVISION:	
2023-139	002	04	

# FIRE TRUCK EXIT MOVEMENTS



## Notes:



Aerial Fire

Width	: 2540
Track	: 2540
Lock to Lock Time	: 6.0
Steering Angle	: 37.0

04	Issued for Review	AN	2025-09-03
03	Issued for Review	AN	2025-08-18
02	Issued for Review	BB	2025-04-24
01	Issued for Review	AN	2025-02-20
REV:	DESCRIPTION:	BY:	DATE:
STATUS:			

**CGH Transportation**  
 6 Plaza Court  
 Ottawa, ON  
 K2H 7W1  
 (343) 999-9117

CLIENT: TCU Development Corp.

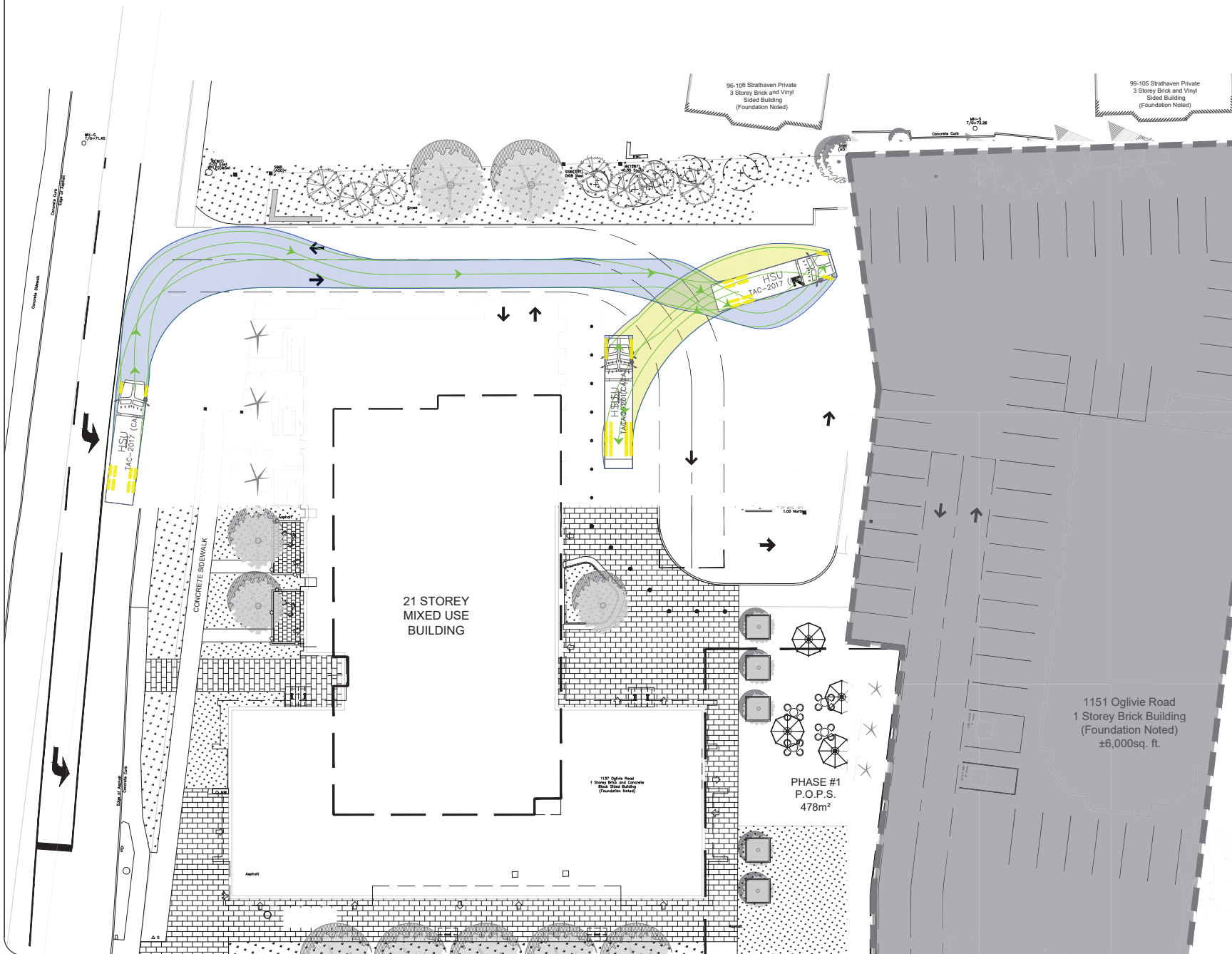
ARCHITECT:

SITE: 1137 Ogilvie Road

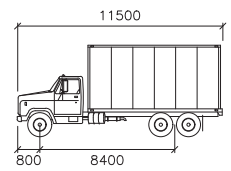
TITLE: Phase 1 Turning Movements  
 Fire Truck Movements (03)

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
NTS	2025-09-03	AN	JK
PROJECT NO:	DRAWING NO:	REVISION:	
2023-139	003	04	

HSU TO PHASE 1 LOADING AREA (REVERSE IN)



Notes:



HSU  
mm  
Width : 2600  
Track : 2600  
Lock to Lock Time : 6.0  
Steering Angle : 40.0

04	Issued for Review	AN	2025-09-03
03	Issued for Review	AN	2025-08-18
02	Issued for Review	BB	2025-04-24
01	Issued for Review	AN	2025-02-20
REV:	DESCRIPTION:	BY:	DATE:
STATUS:			

**CGH Transportation**  
6 Plaza Court  
Ottawa, ON  
K2H 7W1  
(343) 999-9117

CLIENT: TCU Development Corp.

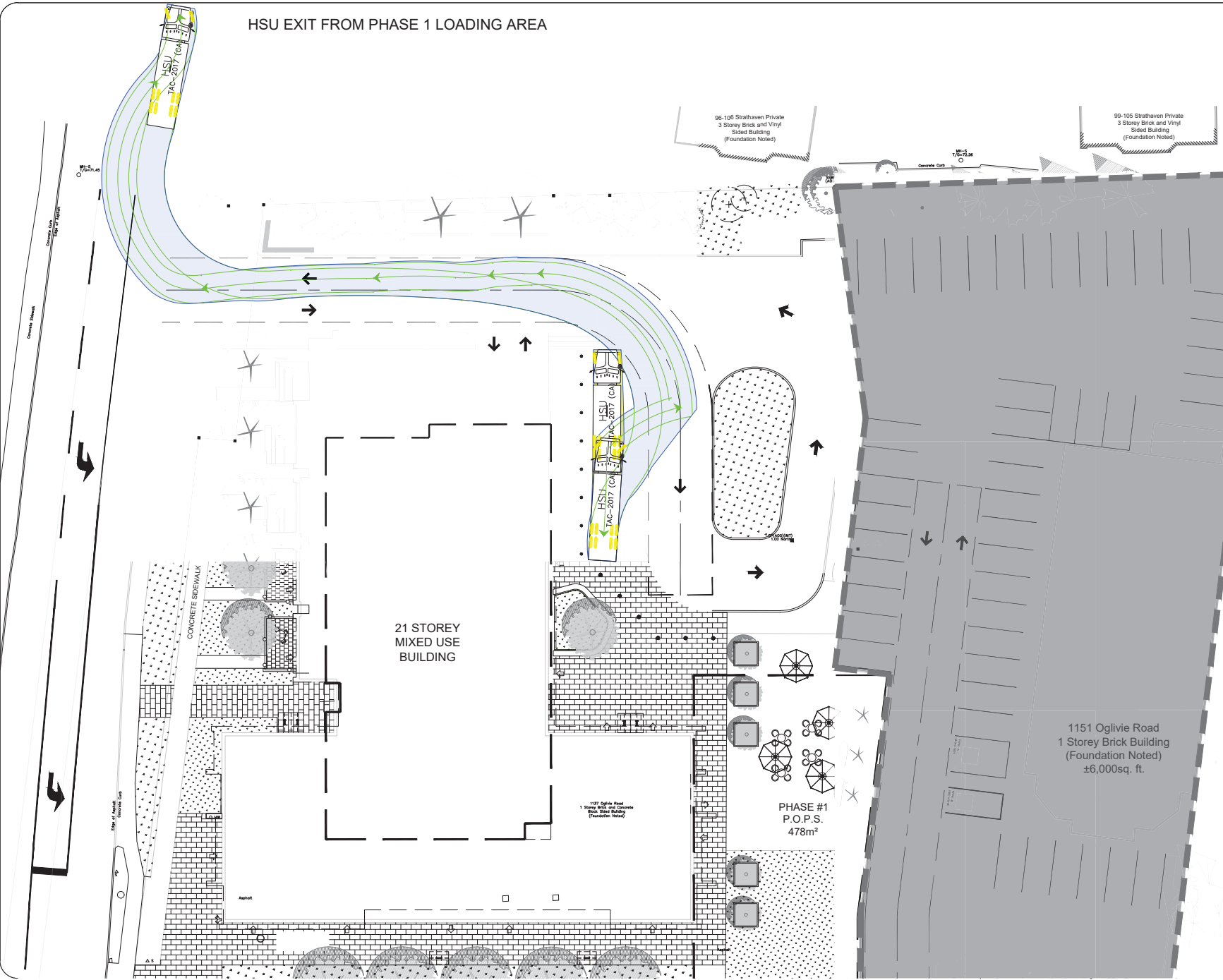
ARCHITECT:

SITE: 1137 Ogilvie Road

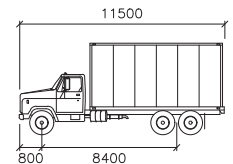
TITLE: Phase 1 Turning Movements  
HSU Movements (01)

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
NTS	2025-09-03	AN	JK
PROJECT NO:	DRAWING NO:	REVISION:	
2023-139	004	04	

# HSU EXIT FROM PHASE 1 LOADING AREA



### Notes:



HSU  
mm  
Width : 2600  
Track : 2600  
Lock to Lock Time : 6.0  
Steering Angle : 40.0

04	Issued for Review	AN	2025-09-03
03	Issued for Review	AN	2025-08-18
02	Issued for Review	BB	2025-04-24
01	Issued for Review	AN	2025-02-20
REV:	DESCRIPTION:	BY:	DATE:
STATUS:			

**CGH Transportation**  
6 Plaza Court  
Ottawa, ON  
K2H 7W1  
(343) 999-9117

CLIENT: TCU Development Corp.

ARCHITECT:

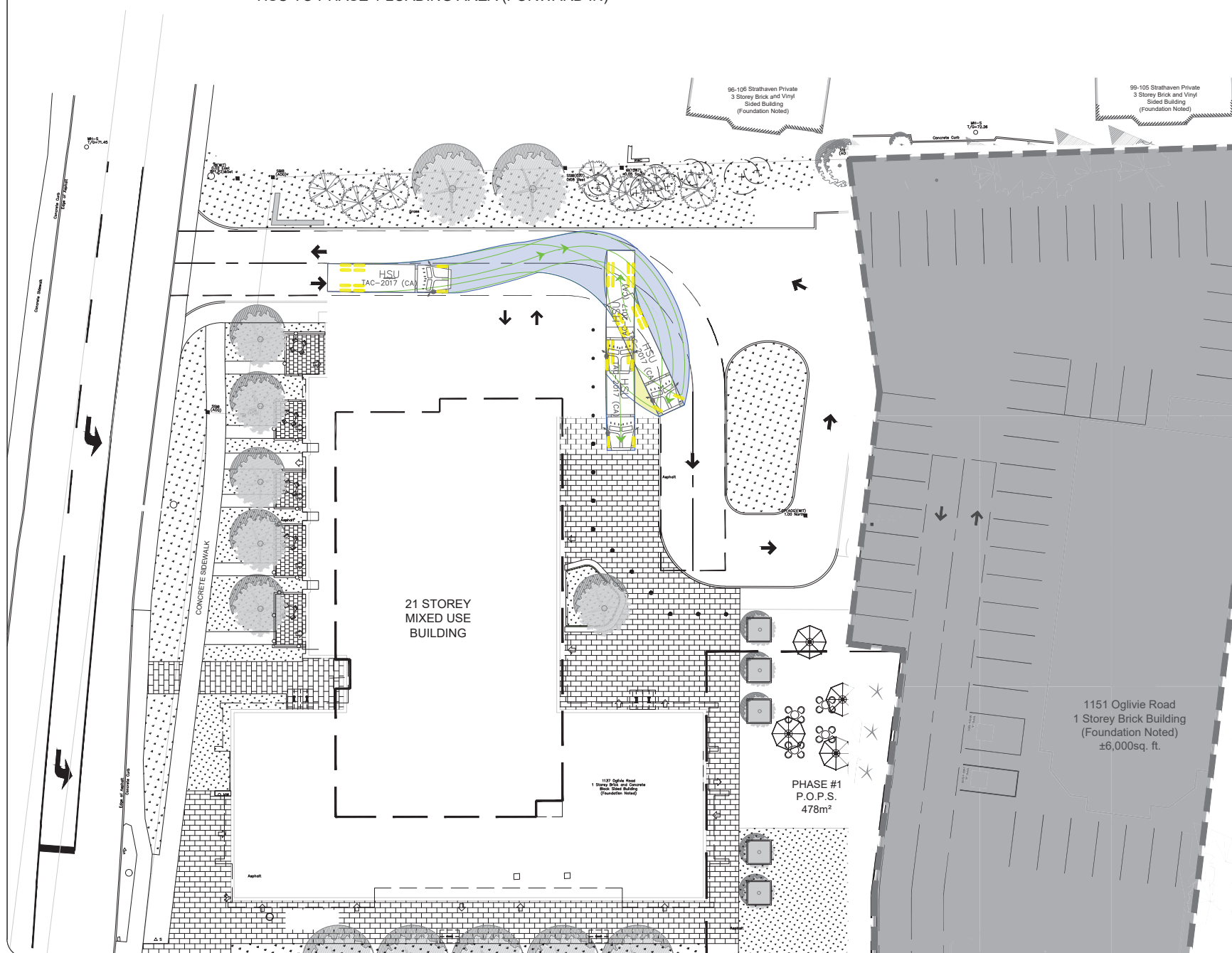
SITE: 1137 Ogilvie Road

TITLE: Phase 1 Turning Movements  
HSU Movements (02)

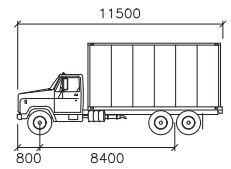
SCALE AT A3:	DATE:	DRAWN:	CHECKED:
NTS	2025-09-03	AN	JK
PROJECT NO:	DRAWING NO:	REVISION:	
2023-139	005	04	



HSU TO PHASE 1 LOADING AREA (FORWARD IN)



Notes:



HSU  
mm  
Width : 2600  
Track : 2600  
Lock to Lock Time : 6.0  
Steering Angle : 40.0

04	Issued for Review	AN	2025-09-03
03	Issued for Review	AN	2025-08-18
02	Issued for Review	BB	2025-04-24
01	Issued for Review	AN	2025-02-20
REV:	DESCRIPTION:	BY:	DATE:
STATUS:			

**CGH Transportation**  
6 Plaza Court  
Ottawa, ON  
K2H 7W1  
(343) 999-9117

CLIENT: TCU Development Corp.

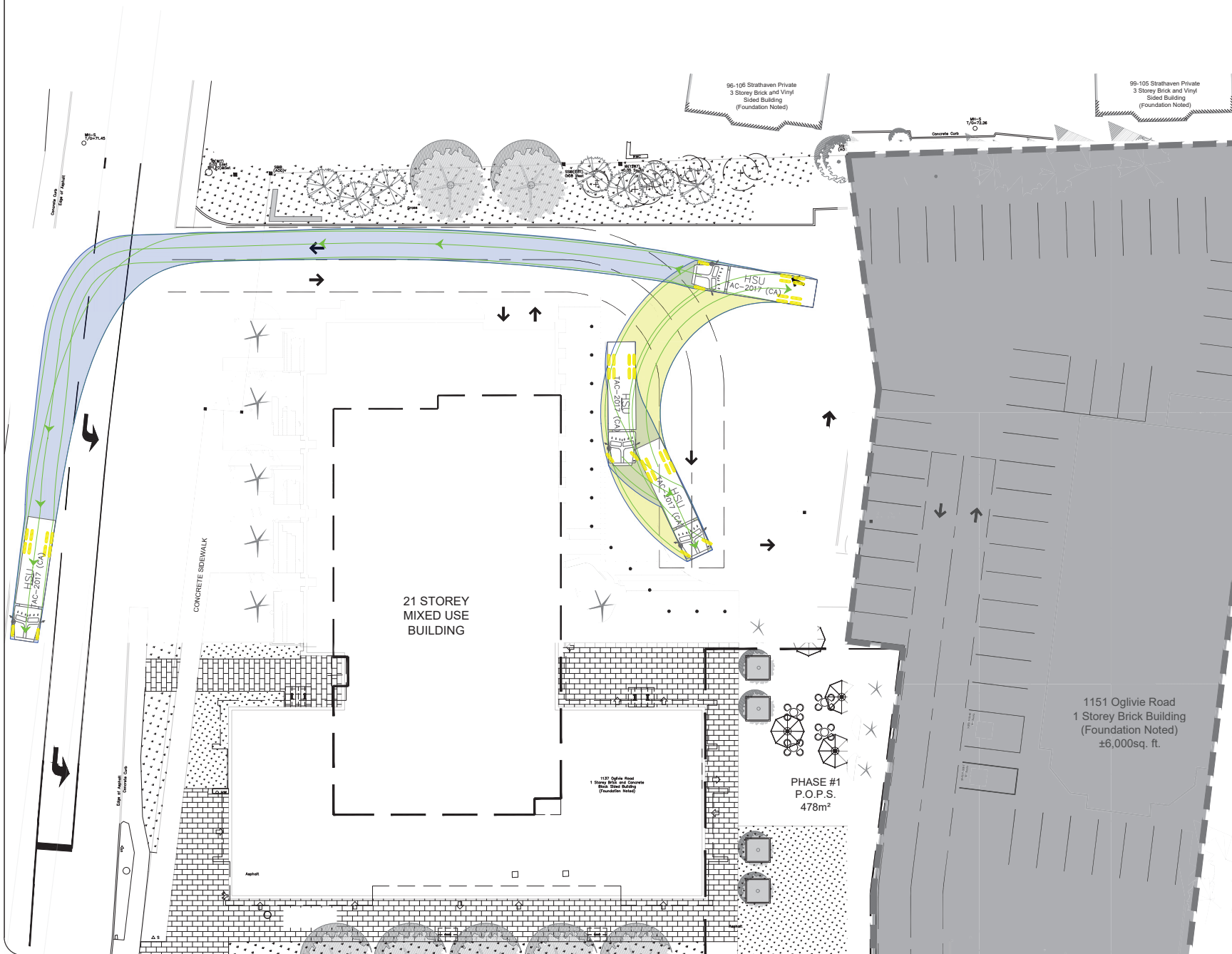
ARCHITECT:

SITE:  
1137 Ogilvie Road

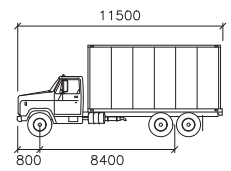
TITLE: Phase 1 Turning Movements  
HSU Movements (03)

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
NTS	2025-09-03	AN	JK
PROJECT NO:	DRAWING NO:	REVISION:	
2023-139	006	04	

# HSU EXIT PHASE 1 LOADING AREA



## Notes:



HSU

mm	
Width	: 2600
Track	: 2600
Lock to Lock Time	: 6.0
Steering Angle	: 40.0

04	Issued for Review	AN	2025-09-03
03	Issued for Review	AN	2025-08-18
02	Issued for Review	BB	2025-04-24
01	Issued for Review	AN	2025-02-20
REV.	DESCRIPTION:	BY:	DATE:
STATUS:			

**CGH Transportation**  
 6 Plaza Court  
 Ottawa, ON  
 K2H 7W1  
 (343) 999-9117

CLIENT: TCU Development Corp.

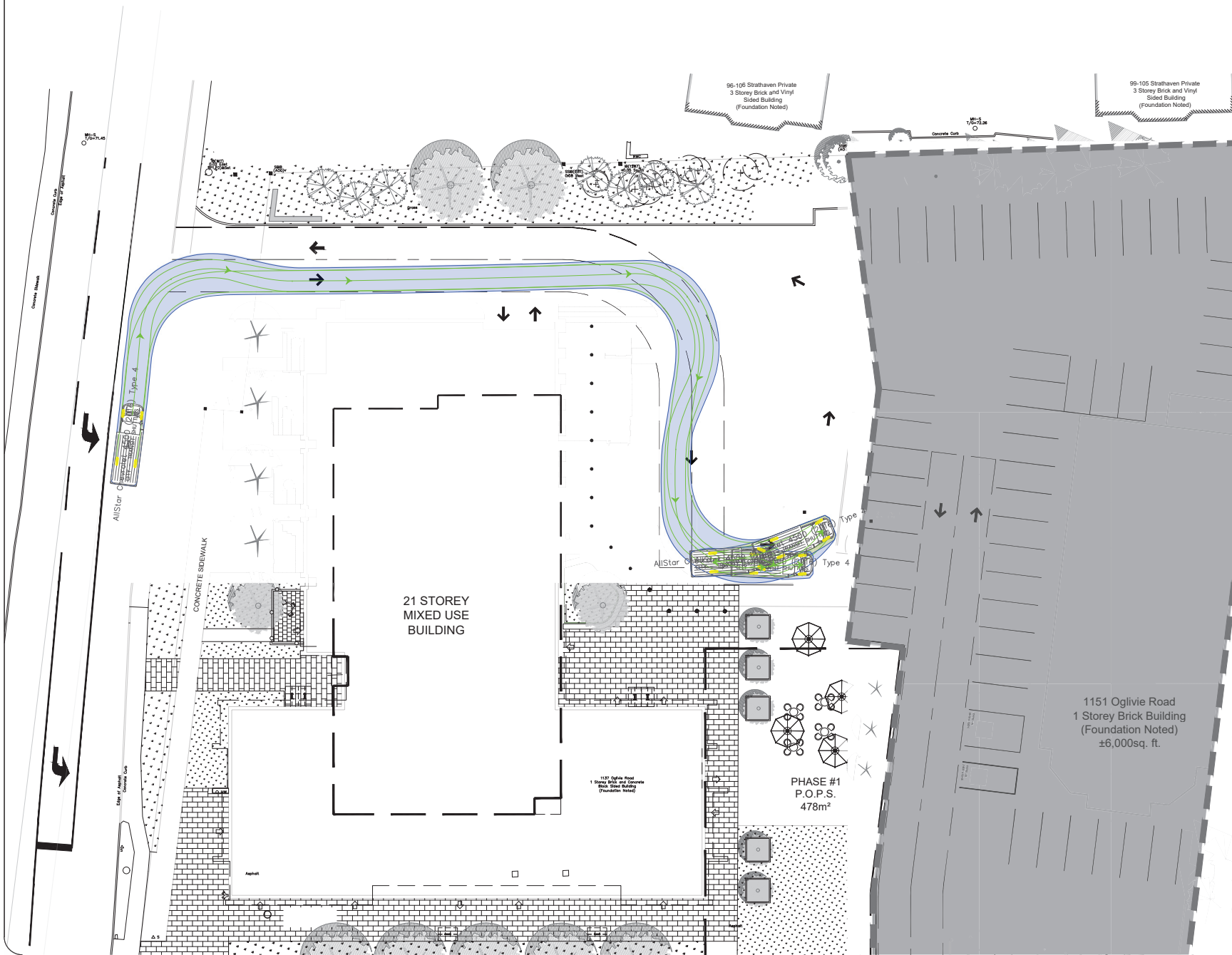
ARCHITECT:

SITE:  
 1137 Ogilvie Road

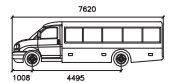
TITLE: Phase 1 Turning Movements  
 HSU Movements (03)

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
NTS	2025-09-03	AN	JK
PROJECT NO.:	DRAWING NO.:	REVISION:	
2023-139	007	04	

PARA TRANSPOR TO DROP OFF LOCATION



Notes:



AllStar Chevrolet 4500 (2016) Type 4  
 mm  
 Width : 2435  
 Track : 1357  
 Lock to Lock Time : 6.0  
 Steering Angle : 34.2

04	Issued for Review	AN	2025-09-03
03	Issued for Review	AN	2025-08-18
02	Issued for Review	BB	2025-04-24
01	Issued for Review	AN	2025-02-20
REV:	DESCRIPTION:	BY:	DATE:
STATUS:			



**CGH Transportation**  
 6 Plaza Court  
 Ottawa, ON  
 K2H 7W1  
 (343) 999-9117

CLIENT: TCU Development Corp.

ARCHITECT:

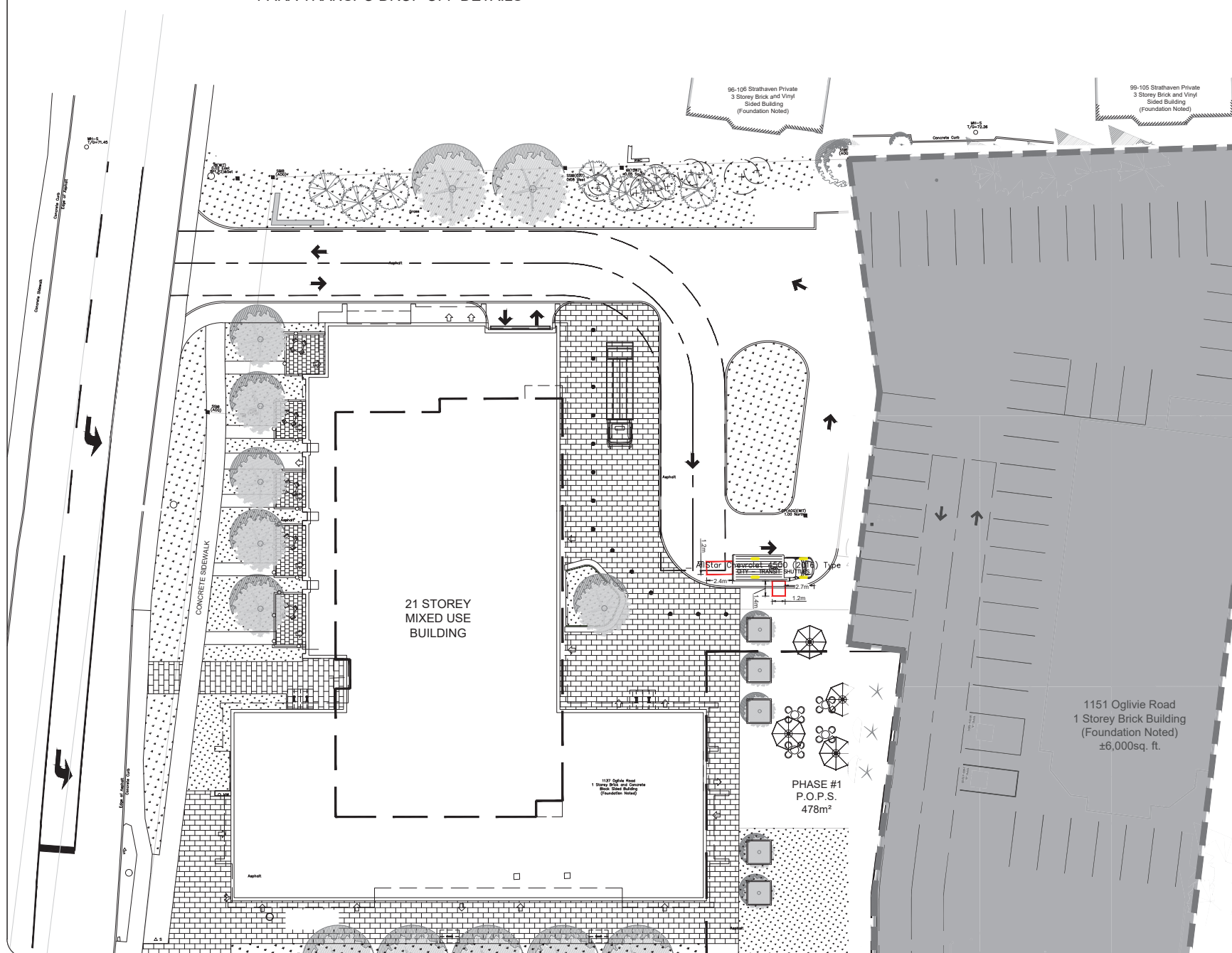
SITE: 1137 Ogilvie Road

TITLE: Phase 1 Turning Movements  
 Para Transpo Movements (01)

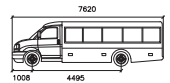
SCALE AT A3:	DATE:	DRAWN:	CHECKED:
NTS	2025-09-03	AN	JK
PROJECT NO:	DRAWING NO:	REVISION:	
2023-139	008	04	



# PARA TRANSPO DROP OFF DETAILS



Notes:



AllStar Chevrolet 4500 (2016) Type 4  
 Width : 2438 mm  
 Track : 1957  
 Lock to Lock Time : 6.0  
 Steering Angle : 34.2

04	Issued for Review	AN	2025-09-03
03	Issued for Review	AN	2025-08-18
02	Issued for Review	BB	2025-04-24
01	Issued for Review	AN	2025-02-20
REV.	DESCRIPTION:	BY:	DATE:
STATUS:			

**CGH Transportation**  
 6 Plaza Court  
 Ottawa, ON  
 K2H 7W1  
 (343) 999-9117

CLIENT: TCU Development Corp.

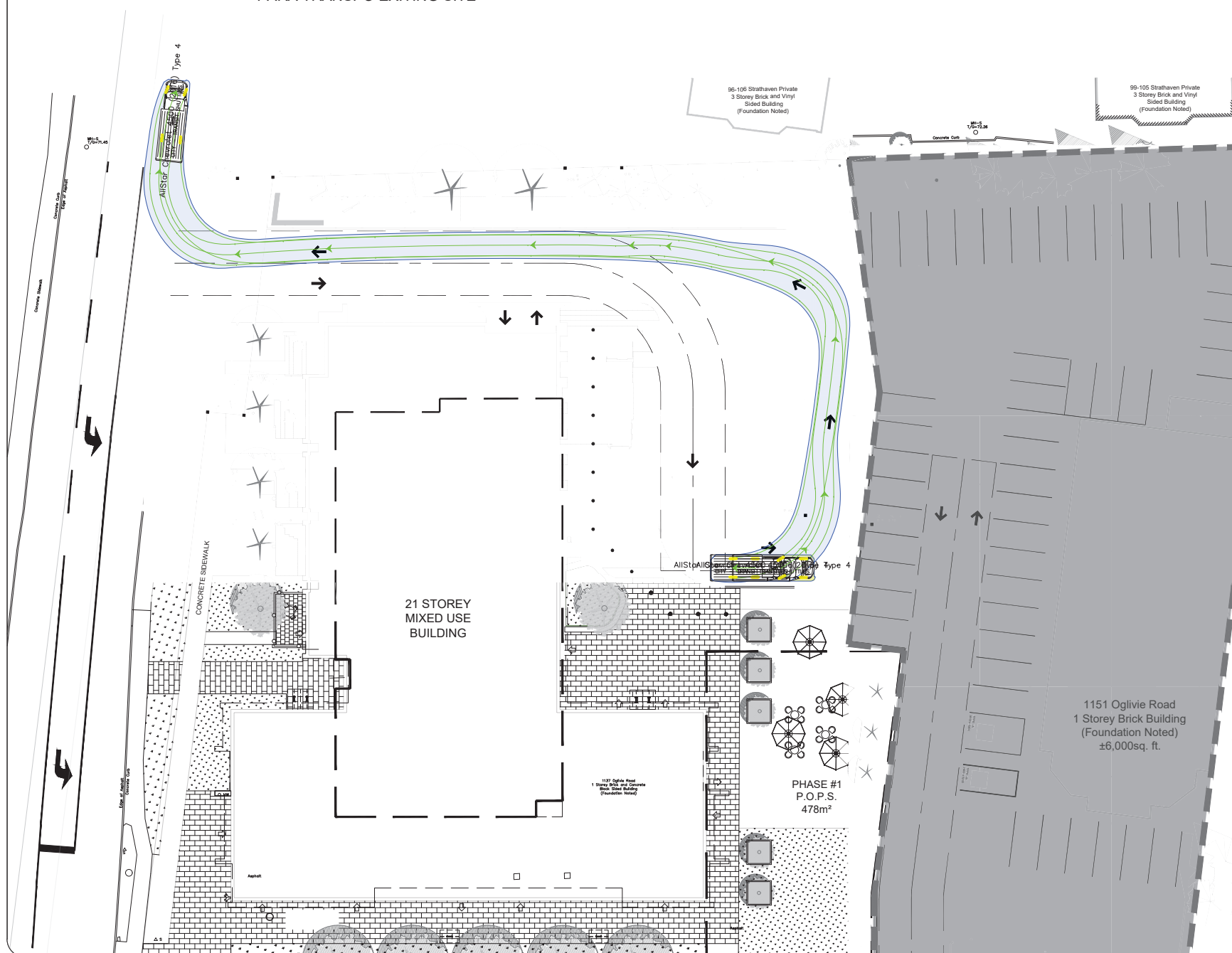
ARCHITECT:

SITE: 1137 Ogilvie Road

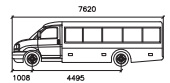
TITLE: Phase 1 Turning Movements Para Transpo Movements (02)

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
NTS	2025-09-03	AN	JK
PROJECT NO:	DRAWING NO:	REVISION:	
2023-139	009	04	

PARA TRANSPO EXITING SITE



Notes:



AllStar Chevrolet 4500 (2016) Type 4  
 Width : 1008 mm  
 Track : 4495 mm  
 Lock to Lock Time : 6.0  
 Steering Angle : 34.2

04	Issued for Review	AN	2025-09-03
03	Issued for Review	AN	2025-08-18
02	Issued for Review	BB	2025-04-24
01	Issued for Review	AN	2025-02-20
REV.	DESCRIPTION:	BY:	DATE:
STATUS:			

**CGH Transportation**  
 6 Plaza Court  
 Ottawa, ON  
 K2H 7W1  
 (343) 999-9117

CLIENT: TCU Development Corp.

ARCHITECT:

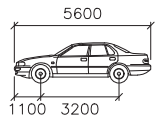
SITE: 1137 Ogilvie Road

TITLE: Phase 1 Turning Movements  
 Para Transpo Movements (03)

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
NTS	2025-09-03	AN	JK
PROJECT NO:	DRAWING NO:	REVISION:	
2023-139	010	04	

PASSENGER VEHICLES ENTERING AND EXITING SITE AND RAMP TO UNDERGROUND

Notes:



P  
mm  
Width : 2000  
Track : 2000  
Lock to Lock Time : 6.0  
Steering Angle : 35.9

04	Issued for Review	AN	2025-09-03
03	Issued for Review	AN	2025-08-18
02	Issued for Review	BB	2025-04-24
01	Issued for Review	AN	2025-02-20
REV:	DESCRIPTION:	BY:	DATE:
STATUS:			

**CGH Transportation**  
6 Plaza Court  
Ottawa, ON  
K2H 7W1  
(343) 999-9117

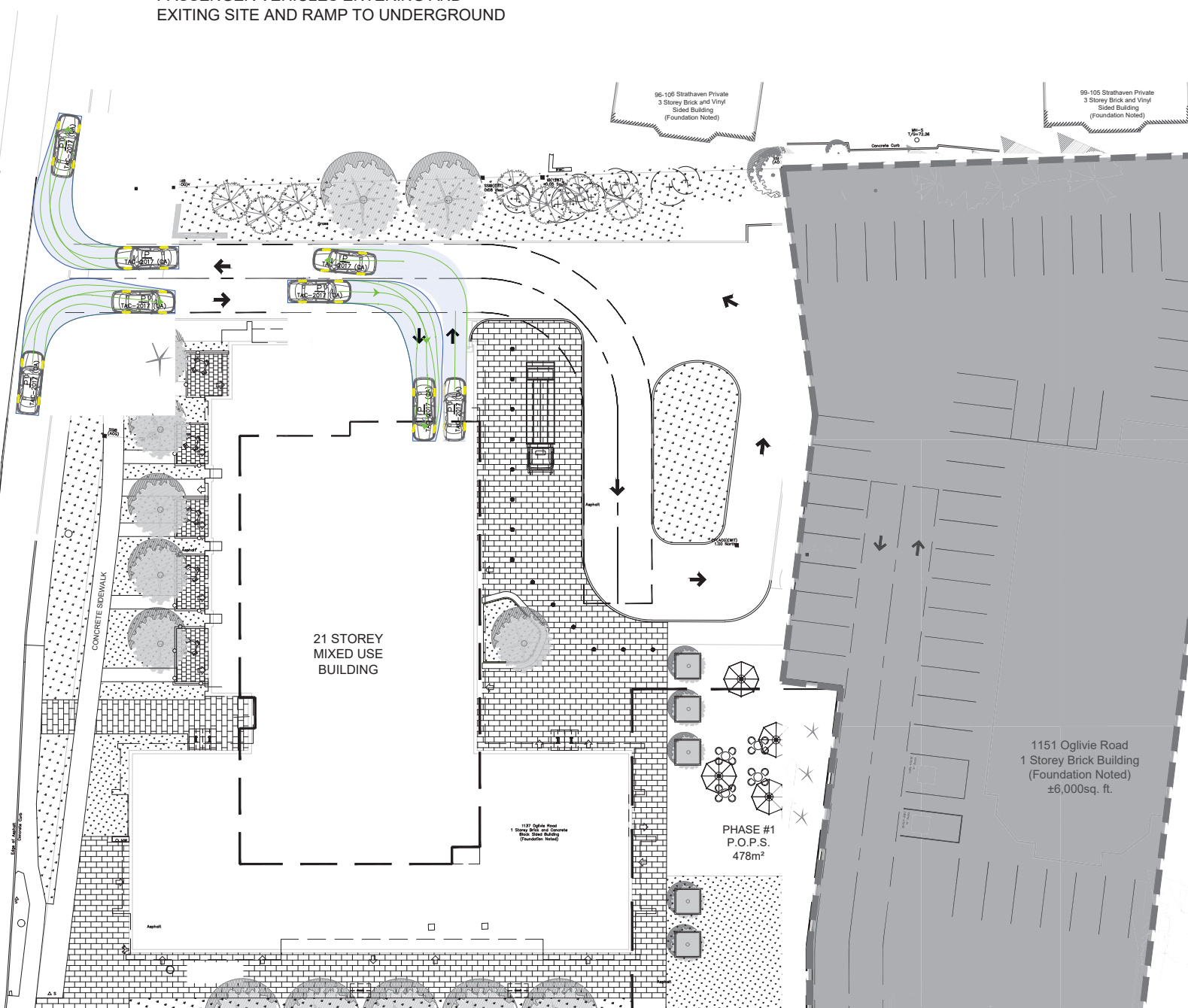
CLIENT: TCU Development Corp.

ARCHITECT:

SITE:  
1137 Ogilvie Road

TITLE: Phase 1 Turning Movements  
TAC-P Movements (01)

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
NTS	2025-09-03	AN	JK
PROJECT NO:	DRAWING NO:	REVISION:	
2023-139	010	04	



# Appendix G

MMLOS Sheets

# Multi-Modal Level of Service - Segments Form

Consultant	CGH Transportation Inc
Scenario	Existing/Future
Comments	

Project Date	1137 Ogilvie Road & 1111 Cummings Avenue
	2024-11-07

SEGMENTS			Ogilvie Rd	Ogilvie Rd	Cummings Ave	Cummings Ave	
			Existing	Future	Existing	Future	
Pedestrian	Sidewalk Width	-	1.5 m	≥ 2 m	1.5 m	≥ 2 m	
	Boulevard Width		> 2 m	> 2 m	< 0.5 m	> 2 m	
	Avg Daily Curb Lane Traffic Volume		> 3000	> 3000	> 3000	> 3000	
	Operating Speed		> 60 km/h	> 60 km/h	> 50 to 60 km/h	> 50 to 60 km/h	
	On-Street Parking		no	no	no	no	
	<b>Exposure to Traffic PLoS</b>		<b>E</b>	<b>D</b>	<b>F</b>	<b>C</b>	<b>-</b>
	Effective Sidewalk Width						
	Pedestrian Volume						
	<b>Crowding PLoS</b>	-	-	-	-	-	
	<b>Level of Service</b>	-	-	-	-	-	
Bicycle	Type of Cycling Facility	E	Curbside Bike Lane	Physically Separated	Mixed Traffic	Physically Separated	
	Number of Travel Lanes		≥ 3 each direction		2-3 lanes total		
	Operating Speed		>50 to 70 km/h		≥ 50 to 60 km/h		
	<b># of Lanes &amp; Operating Speed LoS</b>		<b>D</b>	-	<b>E</b>	-	-
	Bike Lane (+ Parking Lane) Width		≥1.5 to <1.8 m				
	<b>Bike Lane Width LoS</b>		<b>B</b>	-	-	-	-
	Bike Lane Blockages		Rare				
	<b>Blockage LoS</b>		<b>A</b>	-	-	-	-
	Median Refuge Width (no median = < 1.8 m)						
	No. of Lanes at Unsignalized Crossing						
Sidestreet Operating Speed							
<b>Unsignalized Crossing - Lowest LoS</b>	-	<b>A</b>	-	<b>A</b>	-		
	<b>Level of Service</b>	<b>D</b>	<b>D</b>	<b>E</b>	<b>C</b>	-	
Transit	Facility Type	D	Mixed Traffic	Mixed Traffic			
	Friction or Ratio Transit:Posted Speed		Vt/Vp ≥ 0.8	Vt/Vp ≥ 0.8			
	<b>Level of Service</b>		<b>D</b>	<b>D</b>	-	-	-
Truck	Truck Lane Width	B	≤ 3.5 m	≤ 3.5 m	> 3.7 m	> 3.7 m	
	Travel Lanes per Direction		> 1	> 1	1	1	
	<b>Level of Service</b>		<b>A</b>	<b>A</b>	<b>B</b>	<b>B</b>	-
Auto	<b>Level of Service</b>	Not Applicable					