50 Bayswater Avenue, 1088 Somerset Street West Transportation Impact Assessment

Step 1 Screening Report

Step 2 Scoping Report

Step 3 Strategy Report

Prepared for:

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Prepared by:



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PN: 2023-020

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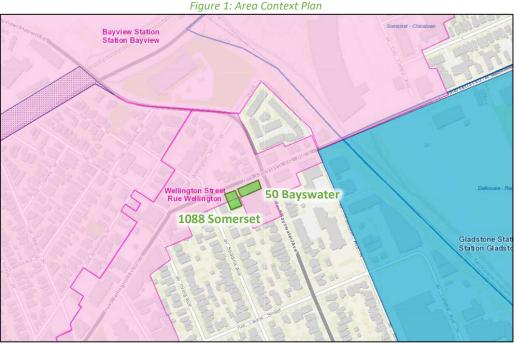
1 Screening

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 zoning bylaw amendment and future site plan applications.

2 Existing and Planned Conditions

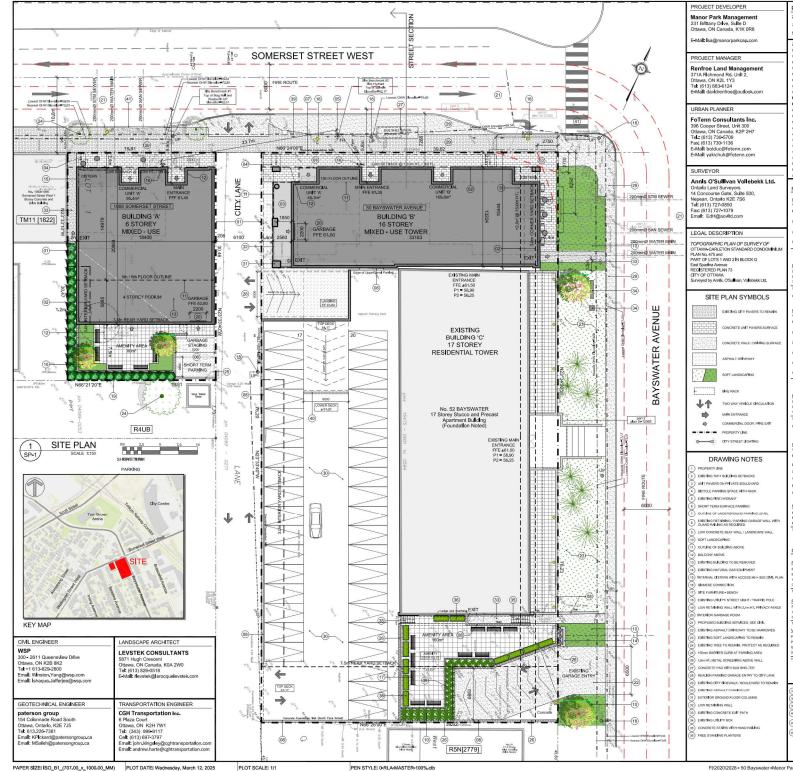
2.1 Proposed Development

The development site is located at 50 Bayswater Avenue and 1088 Somerset Street West and is zoned as traditional Mainstreet Zone (TM11) and Residential Fourth Density Zone (R4UB). One existing office building is located at 50 Bayswater Avenue, and another is located at 1088 Somerset Street West, totaling approximately 6,846 sq. ft. Both buildings will be redeveloped. The development proposed a new 15-storey mixed-used building extension on the existing 192 units residential tower to the front along Somerset Street West at 50 Bayswater Avenue with a total of 80 residential units and 2,316 sq. ft commercial space, and a new 6-storey mixed-used building with a total of 21 units and 1,027 sq. ft commercial space at 1088 Somerset Street West. The two parcels are divided by an existing City Laneway. Two access are provided along the City Laneway and the northern access will be relocated southerly and the southern access will remain unchanged. The existing access for 50 Bayswater Avenue will support the development. The entire site will provide 157 residential vehicle parking spaces, 26 visitor vehicle parking spaces, four commercial vehicle parking spaces, and 111 bicycle parking spaces. The underground parking accommodates 119 spaces and the surface parking, including the existing structure, will accommodate 68 space. The anticipated full build-out and occupancy horizon is 2027. The development site is within the Wellington Street Community Design Plan area. Figure 1 illustrates the study area context. Figure 2 illustrates the proposed concept plan.



Source: http://maps.ottawa.ca/geoOttawa/ Accessed: October 27, 2023





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2.2 Existing Conditions

2.2.1 Area Road Network

Scott Street: Scott Street is a City of Ottawa arterial road with a four-lane urban cross-section including two outside-lane transit priority lanes. A sidewalk and a curbside bike lane are present on the south side of the road and a MUP is present on the north side of the road. Within the study area, the posted speed limit is 50 km/h, and the Official Plan reserves a right-of-way of 26.0 metres. Scott Street is designated as a truck route.

Albert Street: Albert Street is a City of Ottawa arterial road with a four-lane urban cross-section including two outside-lane transit priority lanes. Within the study area, sidewalks are present on both sides of the street. The posted speed limit is 50 km/h and the Official Plan right-of-way is subject to widening/easement policy on the north side. Albert Street is designated as a truck route.

Wellington Street West: Wellington Street West is a City of Ottawa arterial road with a two-lane urban crosssection and on-street parking lanes, with the exception of the south side between Garland Street and Irving Avenue. Sidewalks are present on both sides of the road. The posted speed limit is 50 km/h. The Official Plan reserves a right-of-way of 20.0 metres within the study area. Wellington Street West is designated as a truck route.

Somerset Street West: Somerset Street West is a City of Ottawa arterial road with a two-lane urban cross-section and on-street parking lanes, with the exception of the north side between Spadina Avenue and Garland Street and on the bridge east of Breezehill Avenue North. Sidewalks are provided on both sides of the road. Curbside bike lanes are present east of Breezehill Avenue North for the length of the bridge. The posted speed limit is 50 km/h. The Official Plan reserves a right-of-way of 20.0 metres east of Breezehill Avenue North within the study area, and the existing right-of-way is 20.0 metres west of Breezehill Avenue North. Somerset Street West is designated as a truck route.

Bayview Station Road: Bayview Station Road is a City of Ottawa collector road with a two-lane urban cross-section and on-street parking lanes. Sidewalks are provided on both sides of the road. The unposted speed limit is assumed to be 50 km/h. The Official Plan reserves a right-of-way of 24.0 metres.

Bayswater Avenue: Bayswater Avenue is a City of Ottawa collector road with a two-lane urban cross-section. Sidewalks are present on both sides of the road and on-street parking is permitted on the west side of the road starting approximately 90 metres south of Somerset Street West. The posted speed limit is 30 km/h south of Somerset Street West, and the unposted speed limit is assumed to be 50 km/h north of Somerset Street West. The Official Plan reserves a right-of-way of 24.0 metres north of Somerset Street West, and the existing right-of-way is 25.0 metres south of Somerset Street West. North of Somerset Street West, Bayswater Avenue is designated as a truck route.

Fairmont Avenue: Fairmont Avenue is a City of Ottawa local road with a two-lane urban cross-section. Sidewalks are present on both sides of the road and on-street parking is permitted on the west side of the road. The posted speed limit is 40 km/h and the existing right of way is 19.0 metres.

Garland Street: Garland Street is a City of Ottawa local road with a two-lane urban cross-section north of Armstrong Street, and a one-lane urban cross-section south of Armstrong Street where it is one-way (northbound) with a southbound curbside bike lane. Throughout the study area, sidewalks are on both sides of the road and onstreet parking is permitted on the east side of the road. The posted speed limit is 40 km/h and the existing right of way is 12.0 metres.

Laurel Street: Laurel Street is a City of Ottawa local road with a two-lane urban cross-section with sidewalks on both sides of the road. On-street parking is permitted on both sides of the road west of Bayswater Avenue and on



the south side of the road east of Bayswater Avenue. The posted speed limit is 40 km/h and the existing right of way is 20.0 metres.

2.2.2 Existing Intersections

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

Albert Street/Scott Street at Bayview Station Road	The intersection of Albert Street/Scott Street and Bayview Station Road 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 approach consists of a shared left-turn/through lane, a shared transit priority/right-turn lane, and a bike lane and the westbound approach consists of an auxiliary left-turn lane, a through lane, and a shared transit priority/right-turn lane. No turn restrictions were noted.
Wellington Street West at Fairmont Avenue	The intersection of Wellington Street West and Fairmont Avenue is a signalized intersection. The northbound approach consists of a shared left-turn/right-turn lane, the eastbound approach consists of a shared through/right-turn lane, and the westbound approach consists of a shared left-turn/through lane. No turn restrictions were noted.
Wellington Street West/Somerset Street West at Garland Street	The intersection of Wellington Street West/Somerset Street West at Garland Street is a signalized intersection. The eastbound approach consists of a shared left-turn/through lane, the westbound approach consists of a shared through/right-turn lane, and the north leg is inbound only with a southbound curbside bike lane. The slight-right, constituting the eastbound through movement is restricted on red.
Somerset Street West at Bayswater Avenue	The intersection of Somerset Street West and Bayswater Avenue is a signalized intersection. The northbound approach consists of a shared all-movements 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 a shared left-turn/through lane and an auxiliary right-turn lane. Trucks are restricted on the south leg.
Laurel Street at Bayswater Avenue	The intersection of Laurel Street at Bayswater Avenue is an all-way stop-controlled intersection. Each approach consists of a shared all-movement lane. No turn restrictions were noted.
Somerset Street West at City Laneway	A City Laneway intersects with Somerset Street West approximately 45 metres to the west of Bayswater Avenue. It functions similarly to a private approach and no turn restrictions are noted.

2.2.3 Existing Driveways

Within 200 metres of the site access, driveways to retail are on both sides of Somerset Street West, one driveway to an office is present on the south side of Bayview Station Road, driveways to a car dealer, offices, a restaurant, townhouses, low-density residential developments, mid-rise and high-rise residential buildings are present on both sides of Bayswater Avenue. Two existing accesses to the 50 Bayswater Avenue site, one on Bayswater Avenue and one onto the City Laneway will be maintained. Figure 3 illustrates the existing driveways.



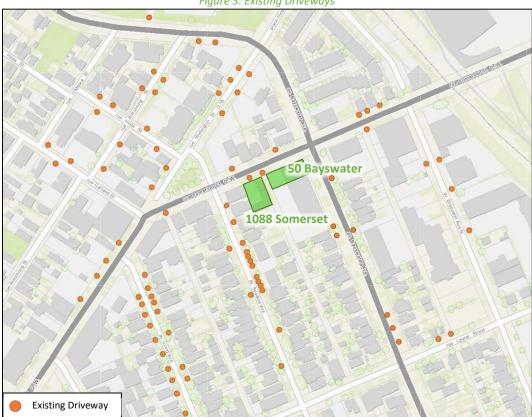


Figure 3: Existing Driveways

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 all study area roads, and a pedestrian crossover is provided across Armstrong Street at Merton Street. MUPs are located along the north side of Scott Street and on the east side of the Trillium LRT corridor, with a connection to the Tom Brown Arena.

Cycling facilities include curbside bike lanes on the south side of Scott Street, on the west side of Garland Street south of Armstrong Street, and on both sides of Somerset Street West on the bridge over the Trillium LRT corridor. Within the 2023 Transportation Master Plan – Part 1, Scott Street and the Trillium rail corridor are cross-town bikeways.



Source: http://maps.ottawa.ca/geoOttawa/ Accessed: October 27, 2023

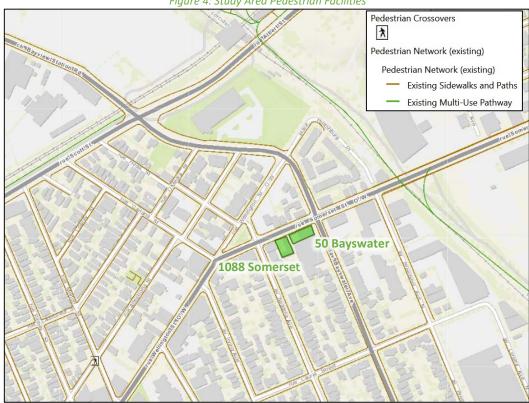
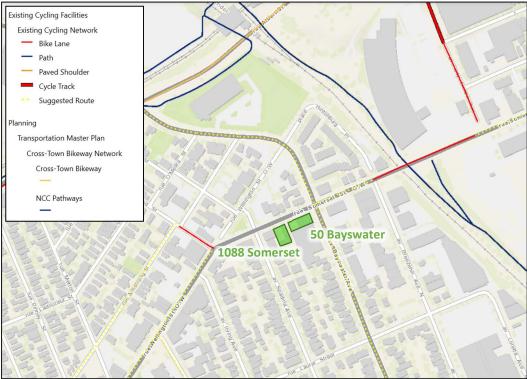


Figure 4: Study Area Pedestrian Facilities

Source: http://maps.ottawa.ca/geoOttawa/ Accessed: October 27, 2023

Figure 5: Study Area Cycling Facilities



Source: http://maps.ottawa.ca/geoOttawa/ Accessed: February 7, 2025



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. The City of Ottawa notes that the collection data may be lower than summer conditions, although this cannot be confirmed.

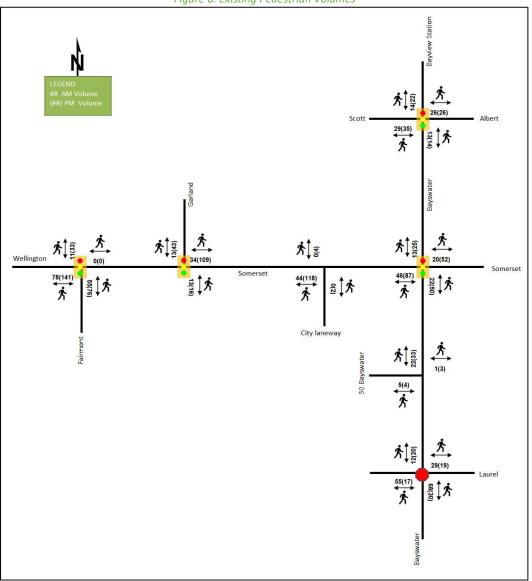
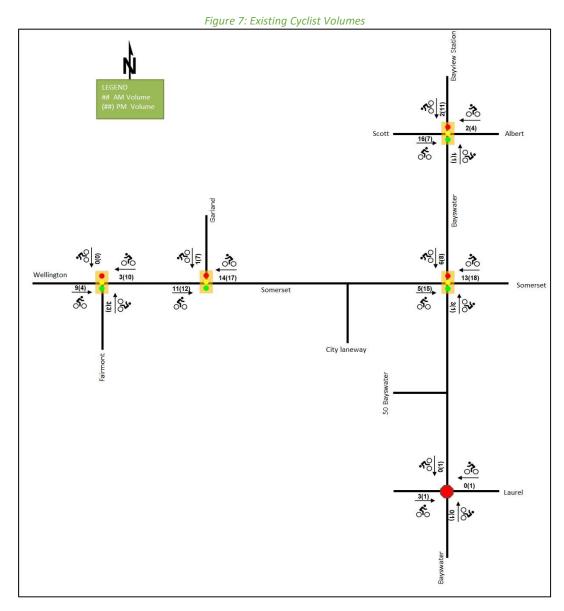


Figure 6: Existing Pedestrian Volumes





2.2.5 Existing Transit

Figure 8 illustrates the transit system map in the study area and Figure 9 illustrates nearby transit stops. All transit information is from October 27, 2023, and is included for general information purposes and context to the surrounding area.

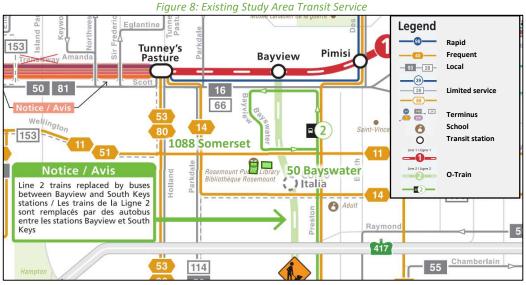
Within the study area, route #11 travels along Wellington Street West/Somerset Street West, and routes #16, 61, 63, 66, and 75 travel along Scott Street. It is noted that a bus stop is located on the frontage of Somerset Street West, approximately 26 meters west of the intersection of Somerset Street West and Bayswater Avenue, serving route #11 towards Parliament. The bus stop serving route #11 towards Bayshore/Lincoln Fields is located on Somerset Street West, approximately 10 meters east of the intersection of Somerset Street West and Bayswater Avenue. The frequency of these routes within proximity of the proposed site based on October 27, 2023, service levels are:

• Route #11 – 15-minute service all day, 20-30-minute service after 9PM



- Route #16 15-minute before 3PM and 30-minute service after 3PM
- Route #61 10-30-minute service, operating during peak period/peak direction only
- Route #63 15-minute service, operating during peak period/peak direction only
- Route #66 30-minute service, operating during peak period/peak direction only Route #75 15-minute service, operating during peak period/peak direction only

Furthermore, Bayview Station is within 400 metres radially (670 metres walking distance) from the site, which in addition to having the routes listed as operating along Scott Street stop here, both O-Train LRT lines service this station. The future Corso Italia Station is within 800 metres radially from the site. It is noted that at the time of report creation, the Line 2 O-Train was running replacement bus service due to construction.



Source: http://www.octranspo.com/ Accessed: October 27, 2023



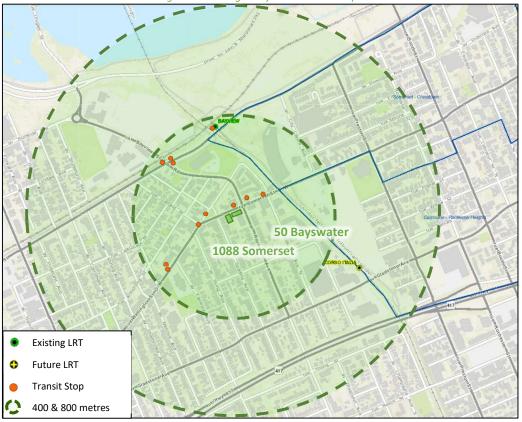


Figure 9: Existing Study Area Transit Stops

Source: http://maps.ottawa.ca/geoOttawa/ Accessed: October 27, 2023

2.2.6 Existing Area Traffic Management Measures

Extensive use of bulb-outs and on-street parking are found throughout the study area, with tight corner radii, vehicular directional closures, and textured crossings additionally present. Vertical centerline treatments are present on Bayswater Avenue south of Somerset Street West. Four sets of speed cushions are present on Bayswater Avenue between Somerset Street West and Gladstone Avenue.

2.2.7 Existing Peak Hour Travel Demand

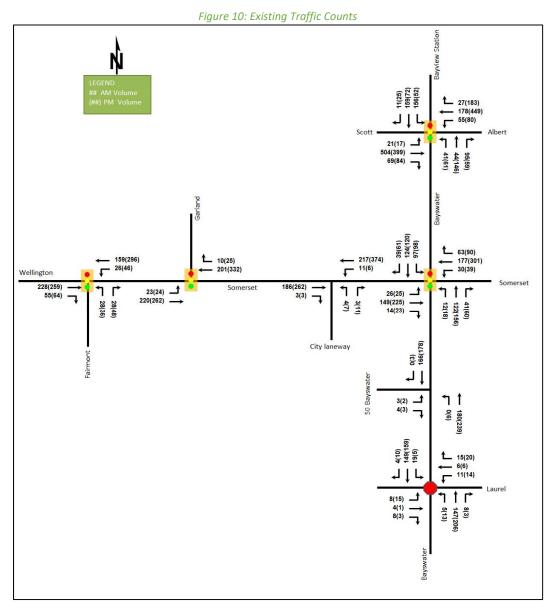
Existing turning movement counts were acquired from the City of Ottawa and The Traffic Specialist for the existing study area key intersections. Table 1 summarizes the intersection count dates.

Intersection	Count Date	Source
Albert Street/Scott Street at Bayview Station Road	Wednesday, March 01, 2023	The Traffic Specialist
Wellington Street West at Fairmont Avenue	Thursday, February 22, 2018	City of Ottawa
Wellington Street W/Somerset Street West at Garland Street	Tuesday, August 23, 2022	City of Ottawa
Somerset Street West at City Laneway	Wednesday, March 08, 2023	The Traffic Specialist
Somerset Street West at Bayswater Avenue	Tuesday, August 23, 2022	City of Ottawa
50 Bayswater at Bayswater Avenue	Wednesday, March 08, 2023	The Traffic Specialist
Laurel Street at Bayswater Avenue	Wednesday, March 08, 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 HCM 2000 v/c calculations for the overall intersection, and average delay for unsignalized



intersections. Detailed turning movement count data is included in Appendix B and the Synchro worksheets are provided in Appendix C.





AM Peak Hour PM Peak Hour									
Intersection	Lane	LOS	V/C	Delay (s)	Q (95 th)	LOS	v/c	Delay (s)	Q (95 th)
	EBL/T	А	0.52	11.5	92.3	А	0.40	9.5	65.9
	EBR	А	0.08	2.1	5.2	А	0.10	2.0	5.6
	WBL	А	0.16	8.9	11.0	А	0.18	8.5	14.7
Albert Street/Scott	WBT	А	0.18	7.5	25.7	А	0.43	9.7	71.8
Street at Bayview	WBR	А	0.03	2.2	2.8	А	0.20	1.7	8.1
Station Road	NBL	А	0.25	35.0	16.5	А	0.31	36.0	21.8
Signalized	NBT/R	А	0.40	15.0	23.4	В	0.69	44.0	57.4
	SBL	D	0.81	64.9	52.8	А	0.40	41.1	20.4
	SBT/R	А	0.55	40.5	50.3	А	0.33	30.0	27.9
	Overall	Α	0.59	21.0	-	Α	0.48	15.8	-
Vallinatan Church Mt	EBT/R	А	0.27	6.6	30.6	А	0.33	7.3	35.5
Vellington Street W	WBL/T	А	0.19	10.8	35.5	А	0.35	5.0	24.3
t Fairmont Avenue Signalized	NBL/R	А	0.21	13.7	11.2	А	0.27	13.9	15.2
Signalizea	Overall	Α	0.25	8.8	-	Α	0.33	7.0	-
Wellington Street	EBL/T	А	0.18	0.9	5.3	А	0.24	2.0	9.8
N/Somerset Street	WBT/R	А	0.15	1.1	11.3	А	0.29	7.6	49.7
N at Garland Street Signalized	Overall	Α	0.20	1.0	-	Α	0.27	5.1	-
C	EBT/R	-	-	-	-	-	-	-	-
Somerset Street W	WBL/T	А	0.01	7.9	0.0	А	0.01	8.5	0.0
at City Laneway Unsignalized	NBL/R	В	0.01	11.3	0.0	В	0.05	13.9	0.8
Unsignunzeu	Overall	Α	-	0.4	-	Α	-	0.4	-
	EBL/T	А	0.30	9.7	8.7	А	0.37	12.0	48.1
	EBR	А	0.03	0.1	0.2	А	0.04	4.4	4.2
Somerset Street W	WBL/T	А	0.35	15.7	35.2	А	0.51	17.4	59.0
at Bayswater	WBR	А	0.12	4.2	6.4	А	0.15	3.4	7.3
Avenue	NB	А	0.30	13.2	27.3	А	0.42	17.5	41.8
Signalized	SBL	А	0.25	15.4	19.2	А	0.30	18.9	22.2
	SBT/R	А	0.26	12.5	24.8	А	0.31	14.2	29.7
	Overall	Α	0.32	12.3	-	Α	0.46	14.7	-
F0 D	EBL/R	В	0.01	10.3	0.0	В	0.01	10.8	0.0
50 Bayswater at	NBL/T	А	-	0.0	0.0	А	0.01	7.8	0.0
Bayswater Avenue	SBT/R	-	-	-	-	-	-	-	-
Unsignalized	Overall	Α	-	0.2	-	Α	-	0.2	-
	EB	А	0.03	7.9	0.8	А	0.03	8.2	0.8
Laurel Street at	WB	А	0.05	8.0	0.8	А	0.06	8.0	1.5
Bayswater Avenue	NB	А	0.24	9.5	6.8	А	0.29	9.1	9.0
Unsignalized	SB	А	0.23	8.6	6.8	А	0.23	8.6	6.8
	Overall	Α	-	8.9	_	Α	-	8.8	-

Table 2: Existing Intersection Operations

Peak Hour Factor = 0.90

= volume for the 95th %ile cycle exceeds capacity

During both the AM and PM peak hours, the study area intersections operate well. No capacity issues are noted.

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. Table 3 summarizes the collision



types and conditions in the study area, Figure 11 illustrates the intersections and segments analyzed, and Table 4 summarizes the total collisions for each of these locations. Collision data are included in Appendix D.

		Number	%
Total (Collisions	24	100%
	Fatality	0	0%
Classification	Non-Fatal Injury	7	29%
	Property Damage Only	17	71%
	Angle	9	38%
	Rear end	4	17%
Initial Impact Type	Turning Movement	3	13%
	SMV Unattended	4	17%
	SMV Other	1	4%
	Other	3	13%
	Dry	16	67%
	Wet	2	8%
Road Surface Condition	Slush	4	17%
	Packed Snow	1	4%
	Ice	1	4%
Pedestrian Involved		0	0%
Cyclists Involved		1	4%

Table 3: Study Area Collision Summary, 2018-2022

Figure 11: Study Area Collision Records



Table 4: Summary of Collision Locations, 2018-2022

	Number	%
Intersections / Segments	24	100%
Bayswater Ave @ Somerset St	9	38%
Somerset St W btwn Bayswater Ave & Breezehill Ave N	5	21%
Wellington St @ Bayswater Ave/Bayview Rd	4	17%
Somerset St W btwn Spadina Ave & Bayswater Ave	2	8%



	Number	%
Intersections / Segments	24	100%
Bayswater Ave btwn Somerset St W & Laurel St	2	8%
Bayswater Ave btwn Wellington St W & Somerset St W	1	4%
Somerset St @ Spadina Ave	1	4%

Within the study area, there are a total of 24 collisions during the 2018-2022 time period, with 17 involving property damage only and the remaining seven having non-fatal injuries. A cyclist collision is noted at Somerset Street at Spadina Avenue intersection in dark conditions. No further collision review is required as part of this study.

2.3 Planned Conditions

2.3.1 Planning and Policy

2.3.1.1 New Official Plan (2021)

Within the Transit and Network Ultimate diagram, transit priority corridor is identified along Wellington Street West and Somerset Street West. The Trillium line reconstruction is underway which includes the Trillium Pathway.

2.3.1.2 Transportation Master Plan Part 1 (2023)

Within the study area, a feasibility study for a pedestrian and cycling bridge crossing the Trillium Line corridor at Laurel Street is identified in the Active Transportation Project List.

2.3.1.3 West Downtown Core Secondary Plan

The West Downtown Core Secondary Plan requires that all future development along the west side of the Trillium Line corridor within the Corso Italia Station District (i.e. between Somerset Street West and Highway 417) provides a multi-use pathway on the portion of their property next to the LRT line. Once all property is redeveloped, a continuous multi-use pathway will be provided along the west side of this portion of the Trillium Line.

2.3.1.4 Wellington Street West Secondary Plan

The Wellington Street West Secondary Plan is a guide to the long-term planning, design and development of both the Wellington mainstreet corridor in general, and four specific areas within it, including direction on issues regarding: land use, built form, sidewalks, plazas and open spaces, and heritage. In general, the policy notes consideration for additional sidewalk or plaza space throughout the area with increased building setbacks and adequate and convenient parking.

2.3.1.5 City's Planned Construction Projects

From the City's Planned Construction Projects portal, transitway renewal and cycling routes along Scott Street are planned this year.

2.3.1.6 Stage 2 Light Rail Transit project - O-Train South Extension

Future Corso Italia LRT station is within 800 metres of the site, which is one of the Trillium Line South extension stations in the Stage 2 Light Rail Transit project, and it is scheduled for completion in 2023.

2.3.1.7 Somerset Street West / Breezehill Avenue North Intersection

A new traffic signal control is planned for the intersection of Somerset Street West and Breezehill Avenue North as part of the 1040 Somerset Street West development. This will involve adding a westbound left-turn lane with about 15 meters of storage, which will reduce the existing westbound bike lane by approximately 45 meters.

2.3.1.8 Breezehill Avenue North Integrated Renewal (Between Somerset Street West And Gladstone Avenue)

An integrated renewal of Breezehill Avenue North, between Somerset Street West and Gladstone Avenue, is planned for 2025-2026. Proposed roadway modifications include narrowing the road, widening sidewalks, adding

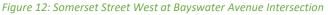


a new sidewalk on the west side of the street between Laurel Street and Gladstone Avenue, and implementing traffic calming measures such as curb extensions, speed humps, and a raised intersection at Laurel Street.

2.3.1.9 Cycling Safety Review of High-Volume Intersections study (2020)

The City's Cycling Safety Review of High Volume Intersections (2020) included a review of Somerset Street West at Bayswater Avenue intersection. The study recommended a variety of improvements, such as cycle tracks in both directions on Somerset Street West and on the north leg of Bayswater Avenue, and a protected intersection configuration. A specific construction timeline is not identified, but it is anticipated to proceed by 2030. Figure 12 illustrate the draft plans of the intersection of Somerset Street West at Bayswater Avenue.





2.3.1.10 Scott Street Protected Intersections – Parkdale Avenue to Bayview Station Road

The ongoing construction of Scott Street will include the removal of bus lanes to provide a two-lane cross-section, an improved public realm, and a protected intersection at Bayview Station Road. Figure 12 illustrate the Scott Street Protected Intersection improvements at Bayview Station Road.



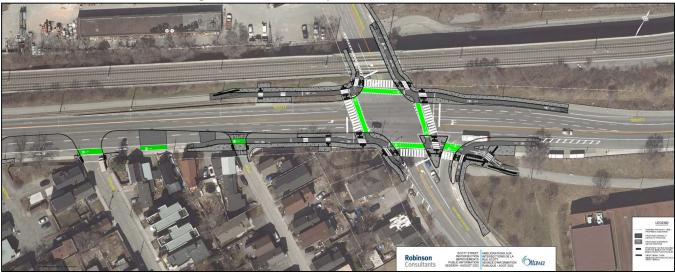


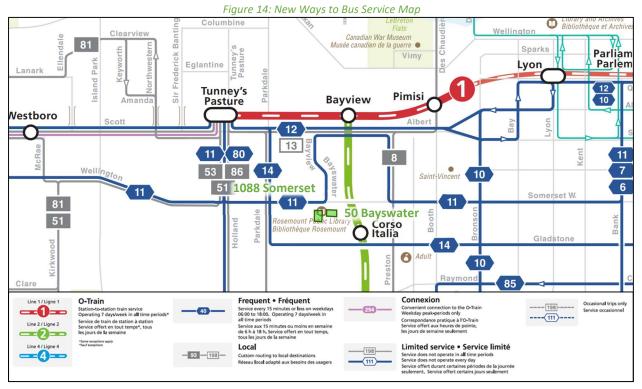
Figure 13: Scott Street at Bayview Station Road Intersection

2.3.1.11 Construction Of Laurel Street East Of Breezehill Avenue North

The ongoing construction of Laurel Street east of Breezehill Avenue North includes new sidewalks on both sides of the street and a speed hump.

2.3.1.12 OC Transpo's New Ways to Bus

Responding to recent ridership trends and anticipating the upcoming completion of the Stage 2 expansion of LRT service within the City, the OC Transpo bus service is planned to be recalibrated to focus on frequency, local service in neighbourhoods, and connections to key destinations. These changes are expected in 2025, and the new service map is illustrated in Figure 14.



Source: https://www.octranspo.com/en/plan-your-trip/service-changes/new-ways-to-bus#new-network Accessed: February 7, 2025



2.3.2 Other Study Area Developments

1040 Somerset Street West

The proposed redevelopment includes a site plan application for the construction of a 30-storey mixed-use building with 268 residential dwelling units, and 141 m² of ground-floor commercial space. The development is anticipated to be built out in 2025 and to generate 24 new two-way AM peak hour auto trips and 26 new two-way PM peak hour auto trips. (Novatech, 2021)

1050 Somerset Street West

Last updated in 2012, the proposed development application includes a site plan for the construction of a 23storey mixed-use building with 195 residential dwelling units, 5,020 sq. ft. of ground floor commercial retail space, 26,100 sq. ft. of commercial office space, and 244 underground parking spaces. Traffic generated by the site has not been explicitly provided in the 2012 traffic analysis. (Novatech, 2012)

935 Wellington Street West

The proposed development application is to demolish the existing structure and consolidate the property with the use on the adjacent property at 927 Wellington Street West. No TIA is available at this time.

26, 36, 40 Armstrong Street & 961,967, 969, 973, 979 Wellington Street West

The proposed development application includes a site plan for the construction of a mixed-use building with 252 residential dwelling units and 8,498 sq. ft. of ground floor commercial development. The development is predicted to generate 30 new AM and 44 new PM two-way peak-hour auto trips, and the anticipated build-out horizon is assumed to be 2024. (CGH Transportation, 2022)

951 Gladstone Avenue and 145 Loretta Avenue North

The proposed development application includes a site plan for the construction of approximately 849 residential units, 193,015 sq. ft of office space (including the existing Standard Bread building, live-work space) and 17,611 sq. ft of retail space. The development is predicted to generate 136 new AM and 149 new PM two-way peak-hour auto trips, and the anticipated build-out horizon is assumed to be 2026. (CGH Transportation, 2022)

54-60 Bayswater Avenue

The proposed development application includes a site plan for the construction of six-storey apartment building with 40 units and one level of underground parking. No TIA is available.

975 Gladstone Avenue

The proposed development application includes a site plan for the construction of a one-storey, 947 m² warehouse addition to the rear of the existing Canada Bank Note building near Laurel Street as well as a 177 m² secured loading bay. No TIA is available.

989 Somerset Street West

The proposed development application includes a site plan for the construction of a high-rise building, totalling 232 units. The development is predicted to generate 20 new AM and 20 new PM two-way peak-hour auto trips, and the anticipated build-out horizon was assumed to be 2020. (Parson, 2022)

3 Study Area and Time Periods

3.1 Study Area

The study area will include the intersections of:

• Albert Street/Scott Street at:



- Bayview Station Road
- Wellington Street West at:
 - Fairmont Avenue
 - o Garland Street
- Somerset Street West at:
 - City Laneway
 - o Bayswater Avenue
- Bayswater Avenue at:
 - Laurel Street
 - o 50 Bayswater

The boundary road will be Somerset Street West and Bayswater Avenue, and the SL29 screenline is present within proximity to the site but will not be analyzed as part of this study.

3.2 Time Periods

As the proposed development consists mainly of residential units with small retail spaces, the AM and PM peak hours will be examined.

3.3 Horizon Years

The anticipated build-out year is 2027. As a result, the full 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 West have been summarized in Table 5.

Travel Mode	Multi-Unit	(High-Rise)	Commercial Generator		
Traver wode	AM	PM	AM	PM	
Auto Driver	29%	33%	55%	50%	
Auto Passenger	11%	11%	11%	16%	
Transit	41%	26%	11%	11%	
Cycling	3%	7%	0%	5%	
Walking	16%	23%	23%	18%	
Total	100%	100%	100%	100%	

Table 5: TRANS Trip Generation Manual Recommended Mode Shares – Ottawa West

Being within 400 metres radially (670 metres walking distance) of the Bayview LRT station and 800 metres radially of the future Corso Italia Station, a higher transit mode is considered achievable at this location. A nine percent shift to transit mode from the auto mode is proposed for the land use of multi-Unit (high-rise). Modified mode share targets are proposed for the development and are summarized in Table 6.

Table 6: Proposed Development Mode Shares – Within 400 m of Rapid Transit						
Travel Mode	Multi-Unit	(High-Rise)	Commercial Generator			
Traver wode	AM	PM	AM	PM		
Auto Driver	20%	24%	55%	50%		
Auto Passenger	11%	11%	11%	16%		
Transit	50%	35%	11%	11%		

Table 6: Proposed Development Mode Shares – Within 400 m of Rapid Transit



Traval Mada	Multi-Unit	(High-Rise)	Commercial Generator		
Travel Mode	AM	PM	AM	PM	
Cycling	3%	7%	0%	5%	
Walking	16%	23%	23%	18%	
Total	100%	100%	100%	100%	

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 7 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.

Land Use	Land Use	Peak	Vehicle Trip	Person Trip
Land Use	Code	Period	Rate	Rates
Multi-Unit High-Rise	221 & 222	AM	-	0.80
wulti-Onit High-Kise	(TRANS)	PM	-	0.90
Land Use	Land Use	Peak	Vehicle Trip	Person Trip
Land Use				
24.14 050	Code	Hour	Rate	Rates
Strip Retail Plaza	Code 822	Hour AM	Rate 2.36	Rates 3.02

Table 7. Trin Generation Person Trin Rates by Peak Period/Hour

Using the above person trip rates, the total person trip generation has been estimated. Table 8 summarizes the total person trip generation for the residential land uses and for the non-residential land uses.

	Table 8: Person	Trip Gener	ation by Pea	k Period/Ho	ur		
Land Lisa	l Inite	A	M Peak Per	iod	PM Peak Period		
Land Use	Units	In	Out	Total	In	Out	Total
Multi-Unit (High-Rise)	101	25	56	81	53	38	91
		А	AM Peak Hour PM Peak		M Peak Ho	Hour	
Land Use	Units / GFA	In	Out	Total	In	Out	Total
Strip Retail Plaza (<40k)	3,343 sq ft	6	4	10	14	14	28

Trin Concention by Dock Devied (1)

Internal capture rates from the ITE Trip Generation Handbook 3rd Edition have been assigned to the development's retail component for mixed-use developments. The rates summarized in Table 9 represent the percentage of trips to/from retail use based on the residential component.

Table 9: Internal Capture Rates					
	Α	М	PM		
Land Use	In	Out	In	Out	
Residential to/from Strip Retail Plaza (<40k)	17%	14%	10%	26%	

Pass-by reductions applied to the retail trip generation at a rate of 40% have been included using 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.)".

Using the above mode share targets for an LRT area, 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 10 summarizes the residential trip generation and the non-residential trip generation by mode and peak hour.



			M Peak H		on by Mode		M Peak H	lour	our	
٦	Fravel Mode	Mode Share	In	Out	Total	Mode Share	In	Out	Total	
	Auto Driver	20%	2	6	8	24%	6	4	10	
it (e)	Auto Passenger	11%	1	3	4	11%	2	2	4	
Multi-Unit (High-Rise)	Transit	50%	7	16	23	35%	8	7	15	
ulti igh.	Cycling	3%	0	1	1	7%	2	1	3	
ΣΞ	Walking	16%	2	6	8	23%	6	5	11	
	Total	100%	12	32	44	100%	24	19	43	
)k)	Auto Driver	55%	2	1	3	50%	4	3	7	
<4(Auto Passenger	11%	1	0	1	16%	2	2	4	
za (Transit	11%	1	0	1	11%	1	1	2	
Pla:	Cycling	0%	0	0	0	5%	1	1	2	
ail	Walking	23%	1	1	2	18%	2	2	4	
Strip Retail Plaza (<40k)	Total	100%	5	2	7	100%	10	9	19	
ip F	Pass-by	40%	-1	-1	-2	40%	-3	-2	-5	
Str	Internal Capture	varies	-1	-1	-2	varies	-1	-4	-5	
	Auto Driver	-	4	7	11	-	10	7	17	
	Auto Passenger	-	2	3	5	-	4	4	8	
	Transit	-	8	16	24	-	9	8	17	
tal	Cycling	-	0	1	1	-	3	2	5	
Total	Walking	-	3	7	10	-	8	7	15	
	Total	-	17	34	51	-	34	28	62	
	Pass-by	40%	-1	-1	-2	40%	-3	-2	-5	
	Internal Capture	varies	-1	-1	-2	varies	-1	-4	-5	

Table 10: Trip Generation by Mode

As shown above, a total of 11 AM and 17 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 West. Table 11 below summarizes the distributions.

able 11: OD Survey Distribution – Ottawa W					
To/From	Residential % of Trips				
North	5%				
South	30%				
East	30%				
West	35%				
Total	100%				

4.4 Trip Assignment

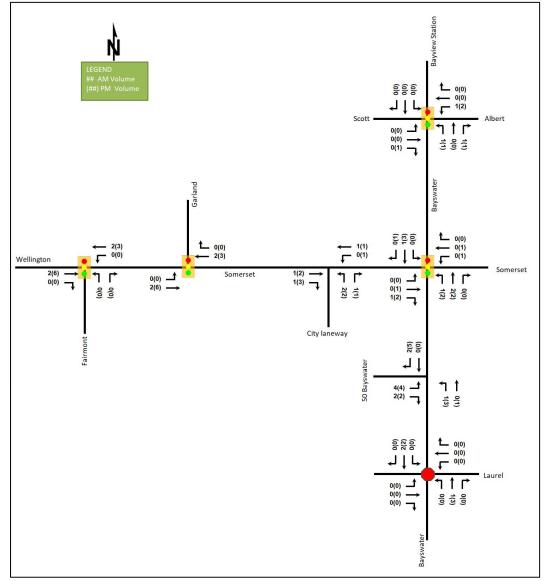
Using the distribution outlined above, turning movement splits, and access to major transportation infrastructure, the trips generated by the site have been assigned to the study area road network. Table 12 summarizes the proportional assignment to the study area roadways, Figure 15 illustrates the new site-generated volumes, and Figure 16 illustrates the pass-by volumes.



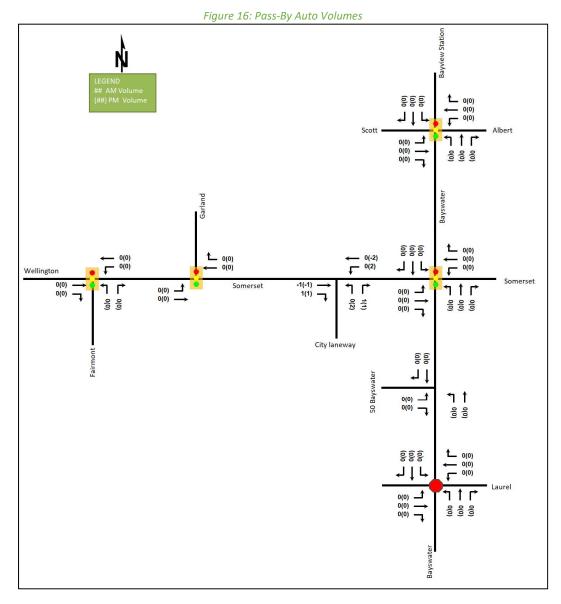
50 Bayswater Avenue, 1088 Somerset Street West Transportation Impact Assessment

	Table 12: Trip Assignment					
To/From	Via					
North	5% Albert Street (N)					
South	30% Bayswater Avenue (S)					
	5% Somerset Street West (E)					
East	15% Albert Street					
	10% Wellington Street West / Highway 417 (E)					
West	25% Wellington Street West /Highway 417 (W)					
west	10% Scott Street (W)					
Total	100%					

Figure 15: New Site Generation Auto Volumes







4.5 Trip Reductions

Based on the existing office building of approximately 6,846 sq. ft. Using the ITE trip generation rates for the land use of small office building (ITE 712), and the employment generator mode shares for Ottawa West, the estimated trip generation of the existing site is 8 AM and 10 PM peak hour two-way vehicle trips. The trip assignment of the estimated reduced volumes is illustrated in Figure 17. Table 13 compares the estimated existing primary auto trips and forecasted site-generated primary auto trips.



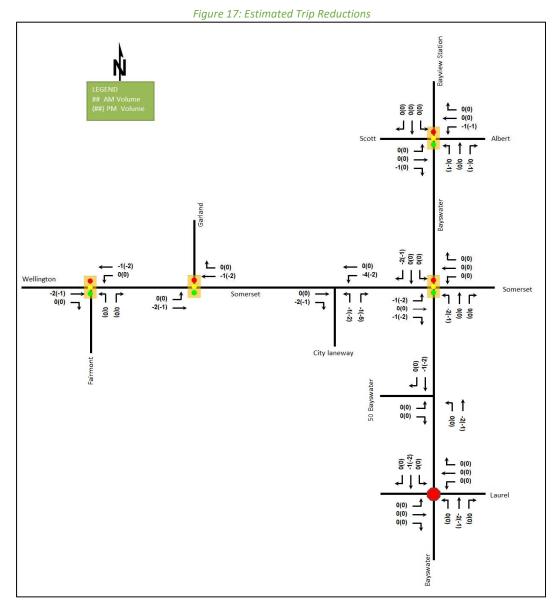
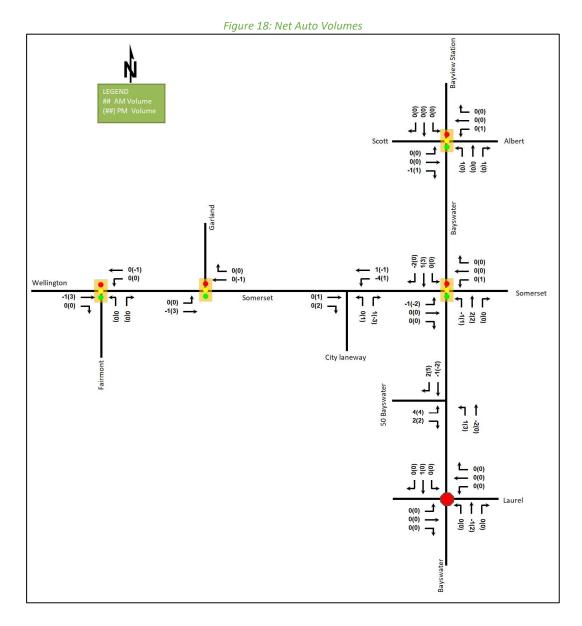


Table 13: Estimated Existing Auto Trip Volumes vs Forecasted Auto Trip Volumes	5
--	---

Scenario	AM Peak Hour				PM Peak Hour			
Scenario	Mode Share	In	Out	Total	Mode Share	In	Out	Total
Existing	54%	6	2	8	54%	3	7	10
Proposed	Varies	4	7	11	Varies	10	7	17
Difference	-	-2	+5	+3	-	+7	+0	+7





5 Exemption Review

Table 14 summarizes the exemptions for this TIA.

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





Module	Element	Explanation	Exempt/Required
4.5 Transportation Demand Management	All Elements	Only required when the development generates more than 60 person-trips	Required
Network Impact			
3.2 Background Network Travel Demand	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
3.3 Demand Rationalization		Only required when one or more other Network Impact Modules when the development generates more than 75 auto trips	Exempt
4.6 Neighbourhood Traffic Calming	4.6.1 Adjacent Neighbourhoods	 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: 1. Access to Collector or Local; 2. "Significant sensitive land use presence" exists, where there is at least two of the following adjacent to the subject street segment: School (within 250m walking distance); Park; Retirement / Older Adult Facility (i.e. long-term care and retirement homes); Licenced Child Care Centre; Community Centre; or 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. 3. Application is for Zoning By-Law Amendment or Draft Plan of Subdivision; 4. At least 75 site-generated auto trips; 5. Site Trip Infiltration is expected. Site traffic will increase peak hour vehicle volumes along the route by 50% or more. 	Exempt
	4.7.1 Transit Route Capacity	Only required when the development generates more than 75 transit trips	Exempt
4.7 Transit	4.7.2 Transit Priority Requirements	Only required when the development generates more than 75 auto trips	Exempt



Module	Element	Explanation	Exempt/Required
4.8 Network Concept		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
4.9 Intersection	4.9.1 Intersection Control	Only required when the development generates more than 75 auto trips	Exempt
Design	4.9.2 Intersection Design	Only required when the development generates more than 75 auto trips	Exempt

6 Development Design

6.1 Design for Sustainable Modes

The northern access on the City Laneway to the lower level of the surface parking structure at 50 Bayswater Avenue will be relocated approximately 6 metres southerly, while the southern access to the upper level or the parking structure will remain. No changes are proposed for the access on Bayswater Avenue to the existing underground parking. A total of 84 bicycle parking spaces are proposed at 50 Bayswater Avenue, and 27 bicycle parking spaces are proposed at 1088 Somerset Street. Existing pedestrian facilities are provided along the boundary streets of Bayswater Avenue and Somerset Street West. Local bus stops are located on the frontage on Somerset Street West closer to the intersection of Somerset Street West at Bayswater Avenue.

The infrastructure TDM checklist is provided in Appendix E.

6.2 Circulation and Access

Residential trips are assumed to use both the access on the City Laneway and the 50 Bayswater Avenue access. Retail trips will only use the City Laneway. The northern access on the City Laneway to the lower level of the existing parking structure will be relocated approximately 6 metres to the south. The access is 6.0 metres wide.

The garbage collection will remain from the City Laneway.

7 Parking

7.1 Parking Supply

A total of 157 residential vehicle parking spaces, 26 visitor parking spaces, and four commercial parking spaces are proposed.

According to the zoning by-law, within Area Y on Schedule 1A, no minimum residential vehicle parking is required. A minimum of eight visitor parking spaces are required for the proposed site. According to the zoning by-law, within Area X on Schedule 1A, 90 residential parking and 18 visitor parking spaces for the existing adjacent residential tower. The minimum vehicle parking provisions for three buildings are 90 residential parking spaces and 26 visitor parking spaces. The proposed vehicle parking meets the minimum zoning-by-law requirements.

According to the zoning by-law, no off-street motor vehicle parking is required to be provided for the commercial spaces at 50 Bayswater Avenue and 1088 Somerset Street West as the gross floor area is less than 500 square metres. The minimum parking requirements are satisfied

As the site is considered within the TOD zone, the maximum vehicle parking according to the zoning by-law for the proposed buildings are 177 residential parking spaces and twelve commercial parking spaces, and for the existing building is 336 residential parking spaces. The maximum parking requirements are satisfied.



A total of 25 underground bicycle parking spaces and two exterior at-grade bicycle parking spaces are proposed at 1088 Somerset Street, while 80 underground bicycle parking spaces and four exterior at-grade bicycle parking spaces are proposed at 50 Bayswater Avenue.

According to the zoning by-law, the minimum bicycle parking requirements are eleven residential spaces and one commercial space for 1088 Somerset Street West and 40 residential spaces and one commercial space for 50 Bayswater Avenue. The minimum bicycle parking requirements are satisfied for both 50 Bayswater Avenue and 1088 Somerset Street West.

Boundary Street Design 8

Table 15 summarizes the MMLOS analysis for the boundary streets of Somerset Street West and Bayswater Avenue. As noted in Section 2.3.1.9, improvements are anticipated at the intersection of Somerset Street West at Bayswater Avenue and are considered as future conditions. The boundary street analysis is based on the policy area of "within 600m of a rapid transit station" and "within 300 metres of a school". The MMLOS worksheets have been provided in Appendix F.

Sogmont	Pedestrian LOS		Bicycle LOS		Transit LOS		Truck LOS	
Segment	PLOS	Target	BLOS	Target	TLOS	Target	TrLOS	Target
Somerset Street West (Existing)	С	Α	E	С	D	D	В	E
Somerset Street West (Future)	Α	Α	Α	С	D	D	С	E
Bayswater Avenue (Existing)	С	Α	E	В	N/A	N/A	N/A	N/A
Bayswater Avenue (Future)	Α	Α	В	В	N/A	N/A	N/A	N/A

Table 15, Doundary Street MANALOS Analysis

The pedestrian LOS targets are not met along the segments of Somerset Street West and Bayswater Avenue in the existing condition. It is anticipated that both segments will meet the pedestrian LOS targets in the future once Somerset Street West at Bayswater Avenue improvements are completed.

The bicycle LOS targets are not met along the segments of Somerset Street West and Bayswater Avenue. It is anticipated that both segments will meet the bicycle LOS targets in the future once Somerset Street West at Bayswater Avenue improvements are completed.

Access Intersections Design 9

9.1 Location and Design of Access

A total of two accesses are proposed along the City Laneway. The northern access to the lower level of the surface parking structure at 50 Bayswater Avenue will be relocated approximately 6 metres south, while the southern access to the upper of the parking structure will remain. The relocated access on the City Laneway is proposed to be 6.0 metres wide, which meets the width requirements of the Private Approach By-law.

No minimum throat length requirements are provided by the TAC Geometric Design Guidelines for access on City Laneway.

10 Transportation Demand Management

10.1 Context for TDM

The subject site has been assumed to rely predominantly on auto driver and transit mode shares due to being within 400 metres radially (670 metres walking distance) of the Bayview LRT station and 800 metres radially of



the future Corso Italia Station. The convenience of the transit station should provide the opportunity to reach the forecast transit mode share.

Total bedrooms within the development is subject to the final unit count and layout selections by purchasers. No age restrictions are noted.

10.2 Need and Opportunity

The subject site has been assumed to rely predominantly on auto and transit travel, and those assumptions have been carried through the analysis.

10.3 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 E. The key TDM measures recommended include:

- Display local area maps with walking/cycling access routes and key destinations at major entrances
- Display relevant transit schedules and route maps at entrances
- Provide a multimodal travel option information package to new/relocating employees and new residents
- Inclusion of a 1-month Presto card for first time new townhome purchase and 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 or rental costs

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 proposed site includes a total 80 residential units and 2,316 sq. ft commercial space, and a new 6storey mixed-used building with a total of 21 units and 1,027 sq. ft commercial space at 1088 Somerset Street West
- The existing access on Bayswater Avenue to the existing parking will remain and serve the proposed redevelopment
- Two accesses are located on the City Laneway and access the existing two-level parking structure and the 50 Bayswater Avenue access to the underground parking levels
- The entire site will provide 157 residential vehicle parking spaces, 26 visitor vehicle parking spaces, four commercial vehicle parking spaces, and 111 bicycle parking spaces
- The anticipated full build-out and occupancy horizon is 2027
- The trip generation and location triggers were met for the TIA Screening



Existing Conditions

- Scott Street, Albert Street, Wellington Street West, and Somerset Street West are arterial roads, and Bayview Station Road and Bayswater Avenue are collector roads in the study area
- Sidewalks are provided along both sides of all study area roads, and a pedestrian crossover is provided across Armstrong Street at Merton Street
- MUPs are located along the north side of Scott Street and on the east side of the Trillium LRT corridor, with a connection to the Tom Brown Arena
- Curbside bike lanes are provided on the south side of Scott Street, on the west side of Garland Street south of Armstrong Street, and on both sides of Somerset Street West on the bridge over the Trillium LRT corridor
- Within the 2023 Transportation Master Plan Part 1, Scott Street and the Trillium rail corridor are cross-town bikeways
- No further examination for collision is required as part of this study

Development Generated Travel Demand

- A total of 11 AM and 17 PM new peak hour two-way vehicle trips are projected as a result of the proposed development
- A total of 24 AM and 17 PM new peak hour two-way transit trips are projected as a result of the proposed development
- Of the forecasted trips, 5 % are anticipated to travel north, 35 % to the west, and 30 % to both the south and east
- The estimated trip generation of the existing site are 8 AM and 10 PM peak hour two-way vehicle trips

Development Design

- Existing pedestrian facilities are provided along the boundary streets of Bayswater Avenue and Somerset Street West
- Local bus stops are located on the frontage on Somerset Street West closer to the intersection of Somerset Street West at Bayswater Avenue
- The garbage collection will remain from the City Laneway
- No change is proposed to the existing access at 50 Bayswater Avenue
- The northern access on the City laneway will be relocated approximately 6 metres south and access the lower level of the existing parking structure
- The existing southern access on the City Laneway will remain unchanged

Parking

- A total of 157 residential vehicle parking spaces, 26 visitor parking spaces, and four commercial parking spaces will be provided for the entire site
- The minimum and maximum parking requirements are satisfied
- No off-street motor vehicle parking is required to be provided for the commercial spaces as the gross floor area is less than 500 square metres according to the zoning by-law
- A total of 25 underground bicycle parking spaces and two exterior at-grade bicycle parking spaces are proposed at 1088 Somerset Street, while 80 underground bicycle parking spaces and four exterior at-grade bicycle parking spaces are proposed at 50 Bayswater Avenue



• The minimum bicycle parking requirements are satisfied

Boundary Street Design

• Although pedestrian and bicycle LOS targets are not met along the segments of Somerset Street West and Bayswater Avenue in the existing condition, it is anticipated that both segments will meet the pedestrian and bicycle LOS targets in the future once Somerset Street West at Bayswater Avenue improvements are completed

Access Intersections Design

- A total of three accesses are proposed, including one existing access that will remain on Bayswater Avenue, one relocated access on City Laneway, and one existing access on City Laneway
- The relocated access on the City Laneway is proposed to be 6.0 metres wide, which meets the width requirements of the Private Approach By-law
- No minimum throat length requirements are provided by the TAC Geometric Design Guidelines for access on City Laneway

TDM

- Supportive TDM measures to be included within the proposed development should include:
 - Display local area maps with walking/cycling access routes and key destinations at major entrances
 - o Display relevant transit schedules and route maps at entrances
 - Provide a multimodal travel option information package to new/relocating employees and new residents
 - Inclusion of a 1-month Presto card for first time new townhome purchase and 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 or rental costs

12 Conclusion

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

Prepared By:

Yu-Chu Chen 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	Date:	10-Aug-23
Step 1 - Screening Form	Project Number:	2023-020
	Project Reference:	50 Bayswater 1088 Somerset

1.1 Description of Proposed Development	
Municipal Address	50 Bayswater Ave, 1088 Somerset St W
Description of Location	Southwest coner of Somerset Street West and
Description of Location	Bayswater Avenue intersection
Land Use Classification	Traditional Mainstreet Zone (TM11) and Residential
	Fourth Density Zone (R4UB)
	Replacing two commercial buildings with two mixed
Development Size	use buildings with 105 dwelling units and a reduction
	in commercial GFA
	Use of existing rear lane on Somerset St W and use of
Accesses	existing underground parking structure accessing
	Bayswater Ave
Phase of Development	Single
Buildout Year	2027
TIA Requirement	Design Review Component

1.2 Trip Generation Trigger	
Land Use Type	Multi-Family (High-Rise)
Development Size	105 Units
Trip Generation Trigger	No

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?	Yes	Somerset W isolated transit priority corridor
Is the development in a Hub, a Protected Major Transit Station Area (PMTSA), or a Design Priority Area (DPA)?	Yes	Somerset W Traditional Mainstreet DPA
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)?	No	Existing Driveways
Is the proposed driveway within auxiliary lanes of an intersection?	No	
Does the proposed driveway make use of an existing median break that serves an existing site?	No	
Is there is a documented history of traffic operations or safety concerns on the boundary streets within 500 m of the development?	No	
Does the development include a drive-thru facility?	No	
Safety Trigger	No	



TIA Plan Reports

On 14 June 2017, the Council of the City of Ottawa adopted new Transportation Impact Assessment (TIA) Guidelines. In adopting the guidelines, Council established a requirement for those preparing and delivering transportation impact assessments and reports to sign a letter of certification.

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 s/he meets the four criteria listed below.

CERTIFICATION

- 1. 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;
- 2. 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;
- 3. 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
- 4. I am either a licensed¹ or registered² professional in good standing, whose field of expertise [check $\sqrt{}$ appropriate field(s)] is either transportation engineering $\sqrt{}$ or transportation planning \Box .

^{1,2} 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.

City Of Ottawa Infrastructure Services and Community Sustainability Planning and Growth Management 110 Laurier Avenue West, 4th fl. Ottawa, ON K1P 1J1 Tel. : 613-580-2424 Fax: 613-560-6006 Ville d'Ottawa Services d'infrastructure et Viabilité des collectivités Urbanisme et Gestion de la croissance 110, avenue Laurier Ouest Ottawa (Ontario) K1P 1J1 Tél.: 613-580-2424 Télécopieur: 613-560-6006 Dated at <u>Ottawa</u> this <u>20</u> day of <u>September</u>, 2018. (City)

Name:

Andrew Harte

(Please Print)

Professional Title:

Professional Engineer

Signature of Individual certifier that s/he meets the above four criteria

Office Contact Information (Please Print)

Address: 6 Plaza Court

City / Postal Code: Ottawa / K2H 7W1

Telephone / Extension: (613) 697-3797

E-Mail Address: Andrew.Harte@CGHTransportation.com





Turning Movement Counts





Turning Movement Count Summary Report Including AM and PM Peak Hours All Vehicles Except Bicycles



Albert St	reet	/Scoi	tt St	reet	& Ba	ysw	ater	Ave	nue/	Bayv	iew S	Statio	on Re	bad							Ott	awa	, ON
Survey Da	te:	Wedr	nesda	ay, Ma	arch 0	1, 20	23					Star	t Time	:		0700			AAD	T Fa	ctor:		1.0
Weather AM	Λ:	Mostly	/ Clou	idy -5°	°C	Sι	irvey	Dura	tion:	6	Hrs.	Surv	ey Ho	ours:		0700-	-1000	8 150	00-18	300			
Weather PN	1:	Cloud	y +1°	С								Surv	eyor(s):		T. Ca	rmod	y					
		Sc	ott	St.			Alt	bert	St.			В	aysv	vate	r A۱	/e.	Ba	ayvie	w S	tn. I	Rd.		
		Ea	stbou	ınd		_	We	stbou	und				No	thbou	und			Sou	uthbo	und			
Time Period	LT	ST	RT	UT	E/B Tot	LT	ST	RT	UT	W/B Tot	Street Total	LT	ST	RT	UT	N/B Tot	LT	ST	RT	UT	S/B Tot	Street Total	Grand Total
0700-0800	12	341	40	0	393	38	152	33	0	223	616	26	30	48	0	104	72	87	3	0	162	266	882
0800-0900	21	504	69	0	594	55	178	27	0	260	854	41	44	95	0	180	156	159	11	0	326	506	1360
0900-1000	15	308	45	0	368	39	172	45	0	256	624	33	45	57	0	135	84	96	15	0	195	330	954
1500-1600	10	320	84	0	414	46	337	92	0	475	889	61	113	61	0	235	50	64	14	0	128	363	1252
1600-1700	14	388	92	0	494	83	470	170	0	723	1217	60	141	57	0	258	44	71	25	0	140	398	1615
1700-1800	13	403	107	0	523	65	410	112	0	587	1110	63	107	63	0	233	54	53	16	0	123	356	1466
Totals	85	2264	437	0	2786	326	1719	479	0	2524	5310	284	480	381	0	1145	460	530	84	0	1074	2219	7529

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

Equ. 12 Hr										calculat n/a											.39 n/a	n/a	n/a
								_															
AADT 12-hr	n/a																				or of: 1	.0 n/a	n/a
AADT IZ-III	II/d	II/d	II/d	II/d	II/d	II/d	II/d	II/d	II/d	II/d	II/d	∏/d	II/d	II/d	II/d	II/d	∏/d	11/d	II/d	∏/d	II/d	II/d	11/
	24-H									g the av													
AADT 24 Hr	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a									

AADT and expansion factors provided by the City of Ottawa

AM Peak Ho	our Fa	ctor •	•	0.	92									Hig	hest	Hourl	y Vehi	cle Vo	lume	Betw	/een O	700h &	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. Total
0800-0900	21	504	69	0	594	55	178	27	0	260	854	41	44	95	0	180	156	159	11	0	326	506	1360

PM Peak Ho	ur Fa	ctor <	•	0.	95						ſ			Hig	hest	Hourly	/ Vehic	le Vo	lume	Betw	een 1	500h &	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	17	399	84	0	500	80	449	183	0	712 1	212	61	146	59	0	266	52	72	25	0	149	415	1627

Comments:

Para Transpo and OC Transpo buses, private buses and school buses comprise 51.41% of the heavy vehicle traffic.

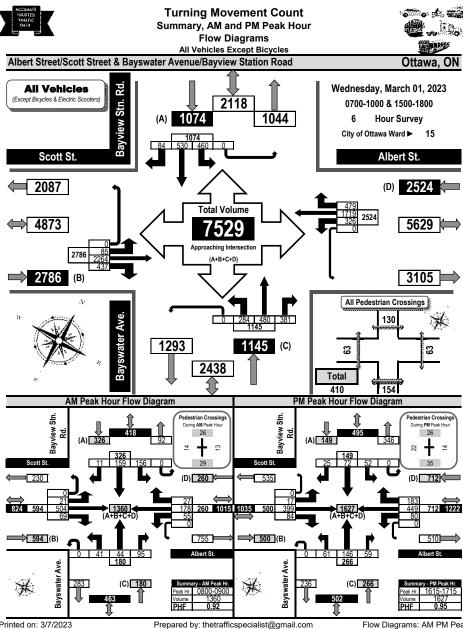
Notes:

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.

Printed on: 3/7/2023

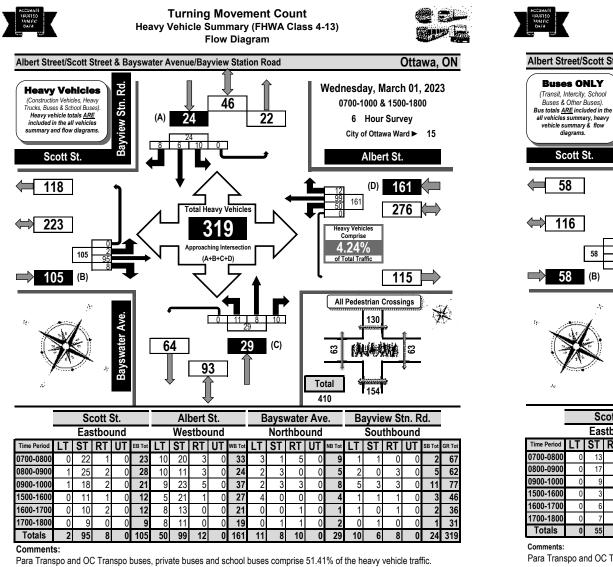
Prepared by: thetrafficspecialist@gmail.com

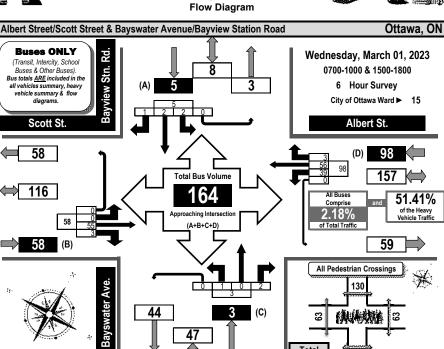


Printed on: 3/7/2023

Summary: All Vehicles

Flow Diagrams: AM PM Peak





Turning Movement Count

All Buses Summary (FHWA Class 4 ONLY)

									/					-	10						
		Sc	cott S	St.		_	AI	bert	St.		E	Bays	wate	r Av	e.	Ba	ayvie	ew S	tn. R	۲d.	1
		Eas	stbo	und			We	stbo	und			Nor	thbo	und			Sou	thbo	und		
Time Period	LT	ST	RT	UT	EB Tot	LT	ST	RT	UT	WB Tot	LT	ST	RT	UT	NB Tot	LT	ST	RT	UT	SB Tot	GR Tot
0700-0800	0	13	0	0	13	7	6	0	0	13	0	0	0	0	0	0	1	0	0	1	27
0800-0900	0	17	2	0	19	7	8	1	0	16	0	0	0	0	0	0	0	0	0	0	35
0900-1000	0	9	0	0	9	7	7	1	0	15	0	0	1	0	1	1	0	0	0	1	26
1500-1600	0	3	0	0	3	4	15	1	0	20	1	0	0	0	1	1	1	1	0	3	27
1600-1700	0	6	1	0	7	7	10	0	0	17	0	0	1	0	1	0	0	0	0	0	25
1700-1800	0	7	0	0	7	7	10	0	0	17	0	0	0	0	0	0	0	0	0	0	24
Totals	0	55	3	0	58	39	56	3	0	98	1	0	2	0	3	2	2	1	0	5	164
Comments:																				-	

Total

410

Para Transpo and OC Transpo buses, private buses and school buses comprise 51.41% of the heavy vehicle traffic.

Printed on: 3/7/2023

Prepared by: thetrafficspecialist@gmail.com

Summary: Heavy Vehicles

Printed on: 3/7/2023

Summary: Buses Only

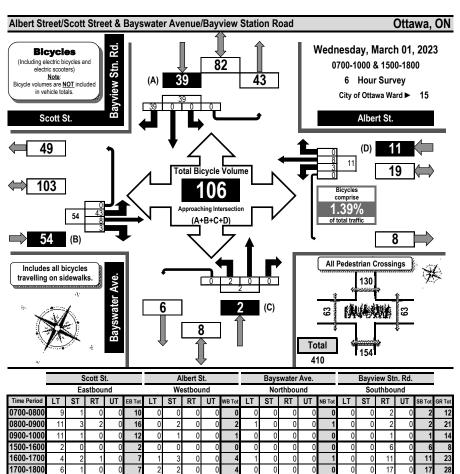


Turning Movement Count Bicycle Summary Flow Diagram





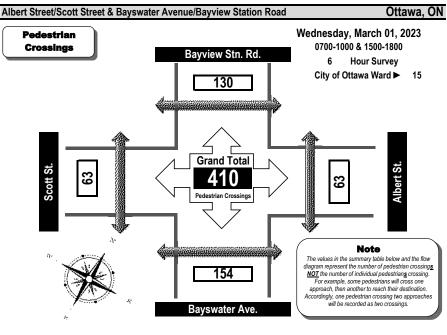
Turning Movement Count Pedestrian Crossings Summary and Flow Diagram



Totals Comments:

43

Para Transpo and OC Transpo buses, private buses and school buses comprise 51.41% of the heavy vehicle traffic.



Time Devied	West Side Crossing	East Side Crossing	Street	South Side Crossing	North Side Crossing	Street	Grand
Time Period	Scott St.	Albert St.	Total	Bayswater Ave.	Bayview Stn. Rd.	Total	Total
0700-0800	4	11	15	25	18	43	58
0800-0900	14	13	27	29	26	55	82
0900-1000	4	10	14	15	10	25	39
1500-1600	3	7	10	18	14	32	42
1600-1700	22	13	35	39	25	64	99
1700-1800	16	9	25	28	37	65	90
Totals	63	63	126	154	130	284	410

Comments:

Para Transpo and OC Transpo buses, private buses and school buses comprise 51.41% of the heavy vehicle traffic.

Printed on: 3/7/2023

Prepared by: thetrafficspecialist@gmail.com

Summary: Bicycles

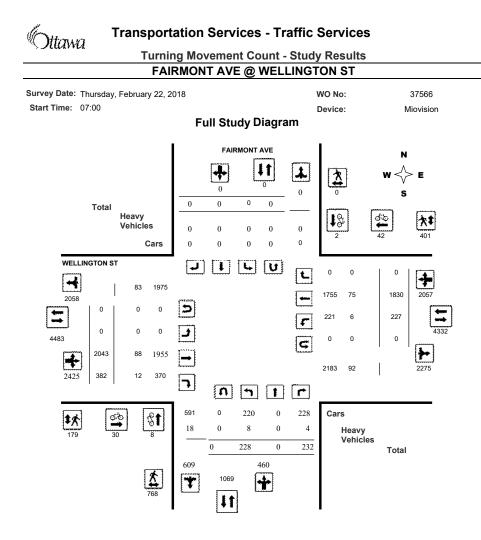
10

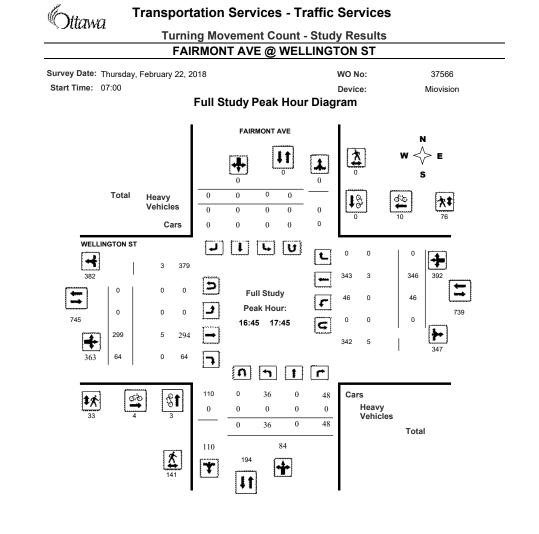
39

Printed on: 3/7/2023

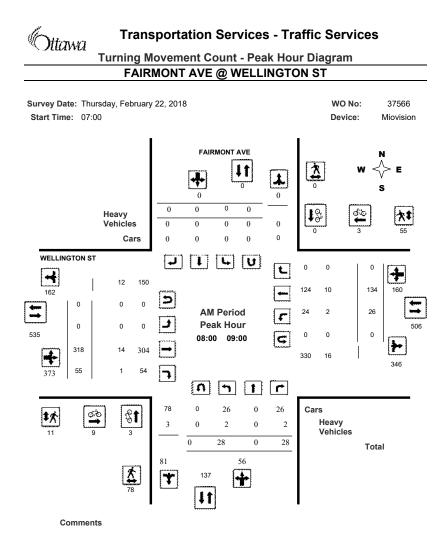
Prepared by: thetrafficspecialist@gmail.com

Summary: Pedestrian Crossings



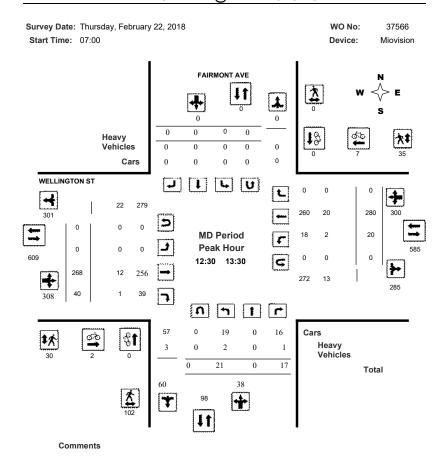


July 14, 2020



Ottawa

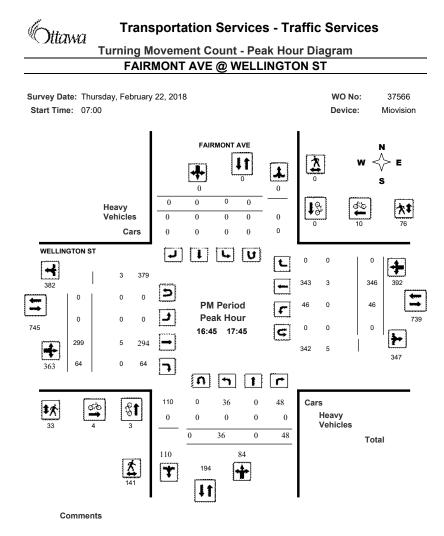
Turning Movement Count - Peak Hour Diagram FAIRMONT AVE @ WELLINGTON ST



2020-Jul-14

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2020-Jul-14



Survey Da	ite: Tł	nursda	ay, Fe	bruary	22, 20	018						wo	No:			37	566		
Start Tim	e: 07	7:00										Dev	ice:			Miov	/ision		
				F	ull S	Stud	y Su	Imma	ary (8	3 HF	R Sta	nda	rd)						
Survey Da	te: T	hursd	lay, Fe	ebruary	22, 2	018	-		Fotal O	bserv	ved U-	Turns					AAD	T Facto	or
							N	lorthbou	nd: 0		South	hbound:	0				.90		
							E	Eastbour	nd: 0		West	tbound:	0						
			FAIR	MONT	AVE							WELI	LINGT	ON ST	Г				
	Nor	thbou	nd		Sou	uthbou	nd			E	astbou	Ind		V	/estboi	und			_
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Grano Tota
07:00 08:00	11	0	12	23	0	0	0	0	23	0	194	26	220	28	115	0	143	363	386
08:00 09:00	28	0	28	56	0	0	0	0	56	0	318	55	373	26	134	0	160	533	589
09:00 10:00	15	0	34	49	0	0	0	0	49	0	201	27	228	17	169	0	186	414	463
11:30 12:30	34	0	26	60	0	0	0	0	60	0	280	46	326	18	220	0	238	564	624
12:30 13:30	21	0	17	38	0	0	0	0	38	0	268	40	308	20	280	0	300	608	646
15:00 16:00	38	0	37	75	0	0	0	0	75	0	221	63	284	29	262	0	291	575	650
16:00 17:00	49	0	28	77	0	0	0	0	77	0	280	67	347	47	315	0	362	709	786
17:00 18:00	32	0	50	82	0	0	0	0	82	0	281	58	339	42	335	0	377	716	798
Sub Total	228	0	232	460	0	0	0	0	460	0	2043	382	2425	227	1830	0	2057	4482	4942
U Turns				0				0	0				0				0	0	0
Total	228	0	232	460	0	0	0	0	460	0	2043	382	2425	227	1830	0	2057	4482	4942
EQ 12Hr	317	0	322	639	0	0	0	0	639	0	2840	531	3371	316	2544	0	2859	6230	6869
Note: These v	alues ar	e calcul	lated by	/ multiply	ing the	totals by	/ the ap	opropriat	e expans	ion fac	tor.			1.39					
AVG 12Hr Note: These v	269 olumes a	0 are calc	274 culated	542 by multir	0 Ivina th	0 e Fauiv	0 alent 1:	0 2 hr. tota	575 Is by the	0 AADT	2409 factor.	450	2859	268 0.9	2158	0	2425	5607	6182
				,	,		14		-,										

Turning Movement Count - Study Results

Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.

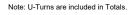
2020-Jul-14

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July 14, 2020

Ottawa

Otta	W73		Tra	ans	ро	rtati	on	Ser	vic	es -	Tra	ffic	: Se	rvio	es				
> D CLUR	,, r.			Т	urn	ing	Mov	eme	ent (Cou	nt - S	Stud	dy R	esu	lts				
					FA	IRM	ION [.]	T A\	/E @	D 🛛	ELL	ING	TO	N ST	•				
Survey Dat	te: Th	nursd	lay, Fe	brua	ry 22,	2018							wo	No:			3	7566	
Start Time	e: 07	7:00			-								Dev	ice:			Mi	ovisio	ı
						F	ull S	tud	v 1	5 Mi	nute	Inc	rem	ent	5				
			FAIR	NON							,	WELL	INGT	ON S'	г				
	N	orthbo	und		So	outhbou	Ind			E	astbour	nd		W	estbour	nd			
Time Period	LT	ST	RT	N ТОТ	LT	ST	RT	s тот	STR TOT	LT	ST	RT	е тот	LT	ST	RT	w тот	STR TOT	Grand Total
07:00 07:15	1	0	1	2	0	0	0	0	0	0	36	3	39	4	27	0	31	0	72
07:15 07:30	1	0	1	2	0	0	0	0	0	0	44	6	50	5	27	0	32	0	84
07:30 07:45 07:45 08:00	2	0	3	5 14	0	0	0	0	0	0	51 63	5 12	56 75	9 10	28 33	0	37 43	0	98 132
08:00 08:15	8	0	7	14	0	0	0	0	0	0	88	12	107	6	26	0	32	0	152
08:15 08:30	4	0	6	10	0	0	0	0	2	0	79	20	99	2	43	0	45	2	154
08:30 08:45	7	0	5	12	0	0	0	0	1	0	80	8	88	7	38	0	45	1	145
08:45 09:00	9	0	10	19	0	0	0	0	1	0	71	8	79	11	27	0	38	1	136
09:00 09:15	2	0	11	13	0	0	0	0	0	0	48	6	54	2	45	0	47	0	114
09:15 09:30 09:30 09:45	4	0	7	11 7	0	0	0	0	0	0	50 58	9 6	59 64	5 5	43 40	0	48 45	0	118 116
09:45 10:00	5	0	13	18	0	0	0	0	0	0	45	6	51	5	40	0	45	0	115
11:30 11:45	10	0	7	17	0	0	0	0	0	0	71	10	81	3	55	0	58	0	156
11:45 12:00	6	0	10	16	0	0	0	0	0	0	68	11	79	7	55	0	62	0	157
12:00 12:15	13	0	3	16	0	0	0	0	1	0	63	14	77	4	57	0	61	1	154
12:15 12:30	5	0	6	11	0	0	0	0	0	0	78	11	89	4	53	0	57	0	157
12:30 12:45	2	0	6	8	0	0	0	0	1	0	52 76	8 14	60 90	6	75	0	81 75	1	149
12:45 13:00 13:00 13:15	9	0	5 5	11 14	0	0	0	0	1	0	76 58	14	90 69	4	71 64	0	75	1	176 154
13:15 13:30	4	0	1	5	0	0	0	0	1	0	82	7	89	3	70	0	73	1	167
15:00 15:15	11	0	8	19	0	0	0	0	1	0	57	18	75	5	49	0	54	1	148
15:15 15:30	9	0	12	21	0	0	0	0	0	0	53	10	63	6	64	0	70	0	154
15:30 15:45	12	0	12	24	0	0	0	0	1	0	46	18	64	11	77	0	88	1	176
15:45 16:00	6	0	5	11	0	0	0	0	1	0	65	17	82	7	72	0	79	1	172
16:00 16:15 16:15 16:30	15 12	0	9 4	24 16	0	0	0	0	0	0	68 65	21 17	89 82	14 10	79 65	0	93 75	0	206 173
16:15 16:30	12	0	4	10	0	0	0	0	0	0	70	17	82 87	10	81	0	75 91	0	173
16:45 17:00	11	0	7	18	0	0	0	0	0	0	77	12	89	13	90	0	103	0	210
17:00 17:15	13	0	14	27	0	0	0	0	0	0	67	14	81	11	83	0	94	0	202
17:15 17:30	3	0	15	18	0	0	0	0	0	0	80	13	93	16	84	0	100	0	211
17:30 17:45	9	0	12	21	0	0	0	0	0	0	75	25	100	6	89	0	95	0	216
17:45 18:00	7	0	9	16	0	0	0	0	0	0	59	6	65	9	79	0	88	0	169
Total:	228	0	232	460	0	0	0	0	12	0	2043	382	2425	227	1830	0	2057	12	4,942





Turning Movement Count - Study Results FAIRMONT AVE @ WELLINGTON ST

		-	February 22, 20	18		WO No:		37566
Star	t Time	e: 07:00				Device:	r i	Miovision
				Full Study	Cyclist V	olume		
			FAIRMONT AVE			WELLINGTON	ST	
Time F	Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total
-	07:15	0	0	0	2	0	2	2
07:15	07:30	0	0	0	1	1	2	2
07:30		0	0	0	3	0	3	3
07:45	08:00	1	0	1	2	1	3	4
00:80	08:15	1	0	1	4	1	5	6
08:15	08:30	1	0	1	3	1	4	5
08:30	08:45	0	0	0	1	1	2	2
08:45	09:00	1	0	1	1	0	1	2
09:00	09:15	0	0	0	0	0	0	0
09:15	09:30	0	0	0	0	0	0	0
09:30	09:45	0	0	0	1	0	1	1
09:45	10:00	0	0	0	1	0	1	1
11:30	11:45	0	0	0	0	1	1	1
11:45	12:00	0	0	0	0	0	0	0
12:00	12:15	0	0	0	1	0	1	1
12:15	12:30	0	0	0	0	0	0	0
12:30	12:45	0	0	0	0	1	1	1
12:45	13:00	0	0	0	1	2	3	3
13:00	13:15	0	0	0	1	2	3	3
13:15	13:30	0	0	0	0	2	2	2
15:00	15:15	0	2	2	1	2	3	5
15:15	15:30	0	0	0	1	2	3	3
15:30	15:45	0	0	0	0	3	3	3
15:45	16:00	0	0	0	0	1	1	1
16:00	16:15	0	0	0	0	6	6	6
16:15	16:30	1	0	1	1	1	2	3
16:30	16:45	0	0	0	1	0	1	1
16:45	17:00	0	0	0	0	1	1	1
17:00	17:15	1	0	1	1	2	3	4
17:15	17:30	0	0	0	1	5	6	6
17:30	17:45	2	0	2	2	2	4	6
17:45	18:00	0	0	0	0	4	4	4
Total		8	2	10	30	42	72	82

July 14, 2020

Ottav	т	ransportat	ion Sei	rvices - Tra	ffic Servic	es	
SULUKI	• レル	Turning	Movem	ent Count -	Study Resul	ts	
		FAIRN	IONT A	VE @ WELL	INGTON ST		
Survey Date	: Thursday,	February 22, 2018			WO No:		37566
Start Time:	07:00	•			Device:		Miovision
		F	ull Stud	ly Pedestriar			
		FAIRMONT AVE		-	WELLINGTON ST		
			-				
	NB Approach 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
07:00 07:15	9	0	9	3	8	11	20
07:15 07:30	15	0	15	4	16	20	35
07:30 07:45	25	0	25	2	11	13	38
07:45 08:00 08:00 08:15	14 25	0	14 25	2	8	12 16	26 41
08:15 08:30	19	0	19	3	9	10	31
08:30 08:45	16	0	15	4	16	20	36
08:45 09:00	18	0	18	2	16	18	36
09:00 09:15	11	0	11	4	11	15	26
09:15 09:30	7	0	7	2	12	14	21
09:30 09:45	14	0	14	0	15	15	29
09:45 10:00	13	0	13	5	7	12	25
11:30 11:45	22	0	22	3	7	10	32
11:45 12:00	21	0	21	4	12	16	37
12:00 12:15	24	0	24	12	19	31	55
12:15 12:30	13	0	13	6	11	17	30
12:30 12:45	24	0	24	7	12	19	43
12:45 13:00 13:00 13:15	19 37	0	19 37	10	4	14 21	33
13:15 13:30	22	0	37	2	9	11	58 33
15:00 15:15	22	0	22	4	8	11	41
15:15 15:30	53	0	53	4	14	12	71
15:30 15:45	31	0	31	9	7	16	47
15:45 16:00	22	0	22	7	11	18	40
16:00 16:15	35	0	35	8	11	19	54
16:15 16:30	29	0	29	6	19	25	54
16:30 16:45	29	0	29	9	20	29	58
16:45 17:00	24	0	24	10	20	30	54
17:00 17:15	35	0	35	9	23	32	67
17:15 17:30	46	0	46	8	18	26	72
17:30 17:45	36	0	36	6	15	21	57
17:45 18:00	31	0	31	9	8	17	48
Total	768	0	768	179	401	580	1348



Transportation Services - Traffic Services

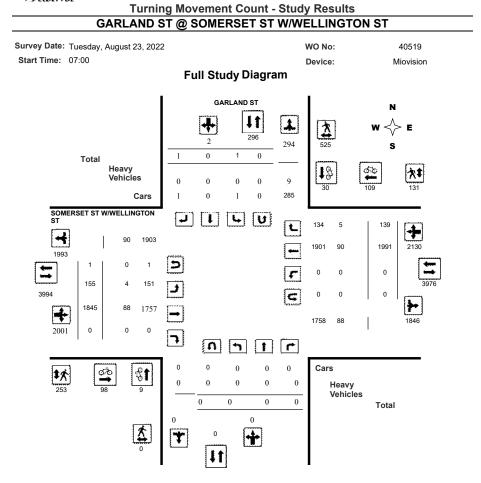
Turning Movement Count - Study Results

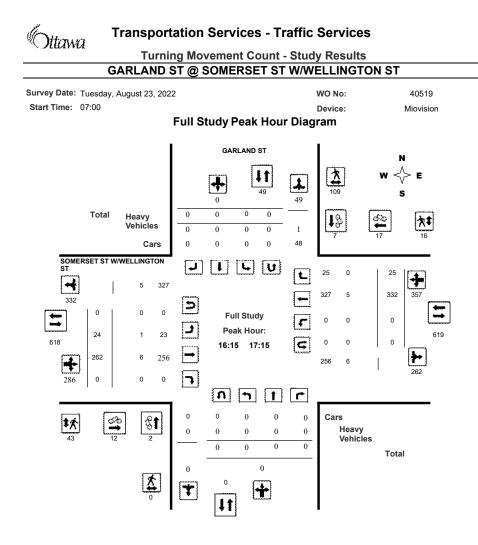
Surve	ey Dat	e: Tł	nursd	ay, Fe	bruar	y 22,	2018							wo	No:			3	7566	
Star	t Time	: 07	7:00											Dev	ice:			Mie	ovision	
							E	ull S	tud	v He	avv	Veł	nicle)C						
				FAIR	иол				, cuu	,	,			INGT		г				
		NI.									-									
		N	orthbo		N		outhbou		s	STR		astbour		Е		estbour		w	STR	Grand
Time F	Period	LT	ST	RT	тот	LT	ST	RT	тот	TOT	LT	ST	RT	тот	LT	ST	RT	тот	TOT	Total
07:00	07:15	0	0	0	0	0	0	0	0	0	0	4	0	4	0	3	0	3	7	7
07:15	07:30	0	0	0	0	0	0	0	0	0	0	2	0	2	0	1	0	1	3	3
07:30	07:45	0	0	0	0	0	0	0	0	0	0	1	1	2	0	2	0	2	4	4
07:45	08:00	1	0	0	1	0	0	0	0	1	0	3	2	5	1	3	0	4	9	10
00:80	08:15	0	0	0	0	0	0	0	0	0	0	5	0	5	0	2	0	2	7	7
08:15	08:30	1	0	1	2	0	0	0	0	2	0	3	0	3	0	2	0	2	5	7
08:30	08:45	1	0	0	1	0	0	0	0	1	0	1	0	1	0	4	0	4	5	6
08:45	09:00	0	0	1	1	0	0	0	0	1	0	5	1	6	2	2	0	4	10	11
09:00	09:15	0	0	0	0	0	0	0	0	0	0	2	1	3	0	4	0	4	7	7
09:15	09:30	0	0	0	0	0	0	0	0	0	0	3	0	3	0	3	0	3	6	6
09:30	09:45	0	0	0	0	0	0	0	0	0	0	4	0	4	0	0	0	0	4	4
)9:45	10:00	0	0	0	0	0	0	0	0	0	0	4	0	4	0	0	0	0	4	4
11:30	11:45	0	0	0	0	0	0	0	0	0	0	5	0	5	0	1	0	1	6	6
11:45	12:00	0	0	0	0	0	0	0	0	0	0	2	0	2	0	3	0	3	5	5
12:00	12:15	1	0	0	1	0	0	0	0	1	0	4	2	6	1	4	0	5	11	12
12:15	12:30	0	0	0	0	0	0	0	0	0	0	9	0	9	0	4	0	4	13	13
12:30	12:45	1	0	0	1	0	0	0	0	1	0	2	0	2	1	4	0	5	7	8
12:45	13:00	0	0	0	0	0	0	0	0	0	0	3	1	4	0	6	0	6	10	10
13:00	13:15	0	0	1	1	0	0	0	0	1	0	1	0	1	1	8	0	9	10	11
13:15	13:30	1	0	0	1	0	0	0	0	1	0	6	0	6	0	2	0	2	8	9
15:00	15:15	1	0	0	1	0	0	0	0	1	0	1	1	2	0	2	0	2	4	5
15:15	15:30	0	0	0	0	0	0	0	0	0	0	2	1	3	0	1	0	1	4	4
15:30	15:45	1	0	0	1	0	0	0	0	1	0	2	0	2	0	1	0	1	3	4
15:45	16:00	0	0	1	1	0	0	0	0	1	0	2	1	3	0	4	0	4	7	8
16:00	16:15	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2	2
16:15	16:30	0	0	0	0	0	0	0	0	0	0	2	1	3	0	1	0	1	4	4
16:30	16:45	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	2	2
16:45	17:00	0	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	3	3
17:00	17:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:15	17:30	0	0	0	0	0	0	0	0	0	0	2	0	2	0	1	0	1	3	3
17:30	17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2	2
17:45	18:00	0	0	0	0	0	0	0	0	0	0	2	0	2	0	4	0	4	6	6
Total:	None	8	0	4	12	0	0	0	0	12	0	88	12	100	6	75	0	81	181	193

July 14, 2020

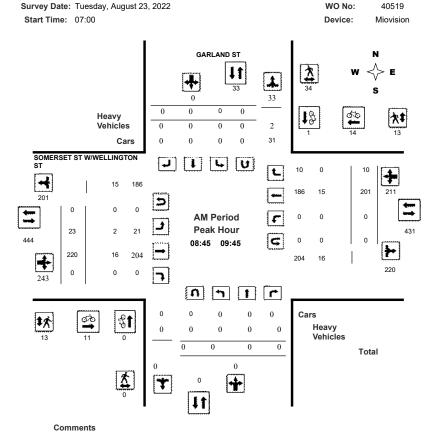
Gu	awa	Trans	portation	Services -	Traffic Se	ervices	
× M	ит	т	urning Mov	ement Cou	nt - Study F	Results	
			FAIRMON	Г AVE @ W	ELLINGTO	N ST	
Survey I	Date: Thursd	ay, Februar	ry 22, 2018		wo) No:	37566
	me: 07:00				De	vice:	Miovision
otart II			E 0	4			WIOVISION
				tudy 15 Mir			
			FAIRMONT	AVE	WEL	LINGTON ST	
	Time I	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	0	0	0
	07:45	08:00	0	0	0	0	0
	08:00	08:15	0	0	0	0	0
	08:15	08:30	0	0	0	0	0
	08:30	08:45	0	0	0	0	0
	08:45	09:00	0	0	0	0	0
	09:00	09:15	0	0	0	0	0
	09:15	09:30	0	0	0	0	0
	09:30	09:45	0	0	0	0	0
	09:45	10:00	0	0	0	0	0
	11:30	11:45	0	0	0	0	0
	11:45	12:00	0	0	0	0	0
	12:00	12:15	0	0	0	0	0
	12:15	12:30	0	0	0	0	0
	12:30	12:45	0	0	0	0	0
	12:45	13:00	0	0	0	0	0
	13:00	13:15	0	0	0	0	0
	13:15	13:30	0	0	0	0	0
	15:00	15:15	0	0	0	0	0
	15:15	15:30	0	0	0	0	0
	15:30	15:45	0	0	0	0	0
	15:45	16:00	0	0	0	0	0
	16:00	16:15	0	0	0	0	0
	16:15	16:30	0	0	0	0	
	16:30	16:45	0	0	0	0	0
	16:45	17:00	0				0
	17:00	17:15 17:30	0	0	0	0	0
		17:30	0	0	0	0	0
	17:30		0	0	0	0	0
	17:45	18:00	÷	-	-	-	-
	To	otal	0	0	0	0	0











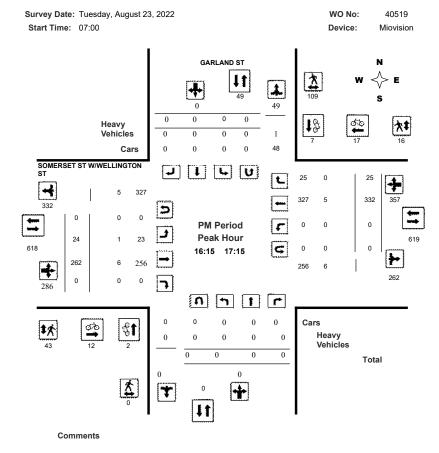
Page 2 of 8

2023-Feb-28



Survey Date: Tuesday, August 2 Start Time: 07:00	3, 2022	WO No: 40519 Device: Miovision
Heavy Vehicles Cars	GARLAND ST 0 0 0 0 0 0 0 0 0 0 0 0 0	$ \begin{array}{c} \mathbf{N} \\ \mathbf{N} \\ \mathbf{N} \\ \mathbf{V} \\ \mathbf$
SOMERSET ST WWELLINGTON ST 16 280 296 1 0 1 593 269 13 256 297 0 0 0		22 2 24 279 16 295 0 0 0 0 0 0 256 13 269
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Cars Heavy Vehicles Total
Comments		

Ottawa	Transportation Services - Traffic Services
	Turning Movement Count - Peak Hour Diagram
GA	ARLAND ST @ SOMERSET ST W/WELLINGTON ST



2023-Feb-28

Otte	wa		Tra	ansp	orta	atio	n S	ervi	ces	- Tr	affic	: Se	rvio	ces					
N MU	(1914			Tu	ırnin	g M	ovei	ment	Cou	nt -	Stud	dy R	esu	lts					
		(GAF	RLAN	ND S	т @	SO	MER	SET	ST	W/W	ÉLI	LINC	STO	N ST				
Survey Da	ate: Tu	uesday	y, Auc	gust 23	, 2022							wo	No:			40	519		
Start Tim												Dev	ice:			Mio	vision		
				F	ull S	Stud	y Su	mma	ary (8	3 HF	R Sta	nda	rd)						
Survey Da	te: T	uesda	ay, Au	igust 2	3, 202	2	-	٦	Total O	bser	ved U-	Turns					AAD	T Fact	or
							N	lorthbour	nd: 0		South	bound	0				.90		
							E	Eastbour	nd: 1			bound:	0						
			GAF	RLAND	ST					SC	DMERS	SET S	T W/V	VELLIN	IGTON	I ST			
	Nor	thbour	nd		Sou	uthbou	nd			E	astbou	nd		V	/estbo	und			
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Grano Tota
07:00 08:00	0	0	0	0	0	0	1	1	1	9	119	0	128	0	122	9	131	259	260
08:00 09:00	0	0	0	0	0	0	0	0	0	13	202	0	215	0	190	7	197	412	412
09:00 10:00	0	0	0	0	0	0	0	0	0	22	234	0	256	0	186	11	197	453	453
11:30 12:30	0	0	0	0	0	0	0	0	0	27	269	0	296	0	295	24	319	615	615
12:30 13:30	0	0	0	0	1	0	0	1	1	25	243	0	268	0	269	22	291	559	560
15:00 16:00	0	0	0	0	0	0	0	0	0	15	266	0	281	0	314	15	329	610	610
16:00 17:00	0	0	0	0	0	0	0	0	0	21	258	0	279	0	325	24	349	628	628
17:00 18:00	0	0	0	0	0	0	0	0	0	23	254	0	277	0	290	27	317	594	594
Sub Total	0	0	0	0	1	0	1	2	2	155	1845	0	2000	0	1991	139	2130	4130	4132
U Turns				0				0	0				1				0	1	1
Total	0	0	0	0	1	0	1	2	2	155	1845	0	2001	0	1991	139	2130	4131	4133
EQ 12Hr	0	0	0	0	1	0	1	3	3	215	2565	0	2781	0	2767	193	2961	5742	5745
Note: These v	alues ar	e calcul	ated by	/ multiply	ing the	totals b	y the ap	opropriat	e expans	ion fac	tor.			1.39					
AVG 12Hr	0	0	0	0	1	0	2	3	3	194	2308	0	2503	0	2490	174	2665	5168	5170
Note: These v	olumes a	are calc	ulated	by multip	olying th	e Equiv	alent 12	2 hr. tota	ls by the	AADT	factor.			.90					
AVG 24Hr	0	0	0	0	1	0	3	4	4	254	3023	0	3279	0	3262	228	3491	6770	6773
Note: These v	olumos	are calc	hatelu	by multir	olvina th	e Avera	ae Dail	v 12 hr i	totale by	12 to 2	4 evnan	sion fac	tor	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

Survey	Date	ε: Τι	iesda	ay, Aug	gust 2	23, 20	22							wo	No:			4	0519	
Start Ti	ime	07	2:00											Dev	ice:			Mio	ovision	í.
							E F	ull S	tud	v 15	5 Mi	nute	Inc	rem	ents	S				
				GAR) ST								w/w			N ST			
		Nr	orthbo	und		Sc	outhbou	ind			F	astbour	hd		W	estbour	nd			
Time Peri		LT	ST	RT	Ν	LT	ST	RT	s	STR	LT	ST	RT	Е	LT	ST	RT	w	STR	Grand
Time Peri	loa	LI	51	RI	тот	L1	51	RI	тот	TOT	LI	-	RI	тот		51	RI	тот	TOT	Total
07:00 07:		0	0	0	0	0	0	0	0	0	0	27	0	27	0	29	1	30	57	57
07:15 07:		0	0	0	0	0	0	0	0	0	1	27	0	28	0	27	4	31	59	59
07:30 07:	_	0	0	0	0	0	0	1	1	1	4	32	0	36	0	26	2	28	64	65
	:00	0	0	0	0	0	0	0	0	0	4	33	0	37	0	40	2	42	79	79
	:15	0	0	0	0	0	0	0	0	0	3	61	0	64	0	39	1	40	104	104
08:15 08		0	0	0	0	0	0	0	0	0	4	41	0	45	0	49	1	50	95	95
08:30 08	_	0	0	0	0	0	0	0	0	0	1	50	0	51	0	44	1	45	96	96
	:00	0	0	0	0	0	0	0	0	0	5	50	0	55	0	58	4	62	117	117
	:15	0	0	0	0	0	0	0	0	0	7	59	0	66	0	48	1	49	115	115
09:15 09		0	0	0	0	0	0	0	0	0	7	60	0	67	0	45	1	46	113	113
	:45	0	0	0	0	0	0	0	0	0	4	51	0	55	0	50	4	54	109	109
09:45 10		0	0	0	0	0	0	0	0	0	4	64	0	68	0	43	5	48	116	116
11:30 11:		0	0	0	0	0	0	0	0	0	8	68	0	77	0	71	7	78	155	155
	:00	0	0	0	0	0	0	0	0	0	2	64	0	66	0	75	4	79	145	145
	:15	0	0	0	0	0	0	0	0	0	9	73	0	82	0	74	6	80	162	162
12:15 12:		0	0	0	0	0	0	0	0	0	8	64	0	72	0	75	7	82	154	154
12:30 12:	-	0	0	0	0	0	0	0	0	0	8	53	0	61	0	67	6	73	134	134
12:45 13:		0	0	0	0	0	0	0	0	0	6	68	0	74	0	63	3	66	140	140
13:00 13:	-	0	0	0	0	1	0	0	1	1	7	58	0	65	0	67	6	73	138	139
13:15 13:	_	0	0	0	0	0	0	0	0	0	4	64	0	68	0	72	7	79	147	147
	:15 :30	0	0	0	0	0	0	0	0	0	4	71 69	0	75 71	0	85 83	2	92 85	167 156	167 156
	:30	0	0	0	0	0	0	0	0	0	2	69 72	0	71	0	83 71	2	85 73	156	156
15:30 15:		0	0	0	0	0	0	0	0	0	3	54	0	78 57	0	75	4	73	136	136
16:00 16:	-	0	0	0	0	0	0	0	0	0	3	55	0	57	0	68	8	79	135	136
	:15	0	0	0	0	0	0	0	0	0	4	55 63	0	59 69	0	73	6	78	135	135
16:30 16:		0	0	0	0	0	0	0	0	0	4	63	0	67	0	104	6	110	140	148
	:45	0	0	0	0	0	0	0	0	0	4	77	0	84	0	80	4	84	168	168
	:15	0	0	0	0	0	0	0	0	0	7	59	0	66	0	75	4 9	84	150	150
	:30	0	0	0	0	0	0	0	0	0	7	59	0	64	0	72	8	80	144	144
17:15 17:	-	0	0	0	0	0	0	0	0	0	2	57 68	0	64 70	0	84	5	89	144	144
	:00	0	0	0	0	0	0	0	0	0	2	70	0	70	0	59	5	64	141	139
Total:	.00	0	0	0	0	1	0	1	2	2	155	1845	0	2001	0	1991	139	2130	4131	4,133

Note: U-Turns are included in Totals.

Cotto	T	ransporta	tion Serv	ices - Tra	affic Servi	ces	
N Mu	WÜ	Turnin	g Movemer	nt Count -	Study Res	ults	
	G	ARLAND S	T @ SOME	RSET ST	W/WELLIN	GTON ST	
Survey Da	te: Tuesday,	August 23, 2022			WO No:		40519
Start Time	e: 07:00				Device:		Miovision
			Full Study				
		GARLAND ST	i un Study		SET ST W/WELL		
							_
Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total
07:00 07:15	0	0	0	0	0	0	0
07:15 07:30	0	0	0	3	2	5	5
07:30 07:45	0	1	1	3	1	4	5
07:45 08:00	0	0	0	3	2	5	5
08:00 08:15	0	0	0	3	2	5	5
08:15 08:30	3	1	4		1	5	9
08:30 08:45	0	2	2	0	4	4	6
08:45 09:00	0	-	÷	4	4	8	8
09:00 09:15	0	0	0	2	2	4	4
9:15 09:30	0	0	0	3	6	9	9
09:30 09:45	0	1	1	2	2	4	5
9:45 10:00	0	1	1	1	1	2	3
11:30 11:45 11:45 12:00	1	2	1	2	6	4	5
12:00 12:15	1	0	0	5	4	9	11 9
12:00 12:15	0	0	0	6	4	9	9
12:15 12:30	-		-	6	-	-	-
2:30 12:45	0	0	0	3	4	10 6	10
3:00 13:15	0	0	0	5	4	9	9
3:15 13:30	0	2	2	7	4	14	9 16
15:00 15:15	1	1	2	0	4	4	6
5:15 15:30	0	0	0	1	4 3	4	4
15:30 15:45	1	1	2	2	1	3	5
15:45 16:00	0	1	1	2	3	5	6
16:00 16:15	0	1	1	1	3	4	5
6:15 16:30	1	0	1	5	4	9	10
6:30 16:45	0	4	4	3	4	9 7	10
6:45 17:00	1	4	2	3	4	7	9
17:00 17:15	0	2	2	3	4	6	9
17:15 17:30	0	4	4	3	7	10	8
17:15 17:30	0	4	4	9	7	10	14
17:45 18:00	0	3	3	9	4	8	17
Total	9	30	39	98	4	207	246



Turning Movement Count - Study Results GARLAND ST @ SOMERSET ST W/WELLINGTON ST

Survey Da	i te: Tuesday, A	ugust 23, 2022			WO No:		40519
Start Tim	e: 07:00				Device:		Miovision
		F	ull Stuc	ly Pedestria	n Volume		
		GARLAND ST			ET ST W/WELLIN	GTON ST	
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
07:00 07:15	0	6	6	1	2	3	9
07:15 07:30	0	5	5	1	3	4	9
07:30 07:45	0	7	7	0	2	2	9
07:45 08:00	0	10	10	4	5	9	19
08:00 08:15	0	9	9	1	4	5	14
08:15 08:30	0	11	11	2	4	6	17
08:30 08:45	0	10	10	11	0	11	21
08:45 09:00	0	13	13	1	4	5	18
09:00 09:15	0	5	5	5	2	7	12
09:15 09:30	0	6	6	5	2	7	13
09:30 09:45	0	10	10	2	5	7	17
09:45 10:00	0	9	9	1	7	8	17
11:30 11:45	0	12	12	15	4	19	31
11:45 12:00	0	11	11	10	4	14	25
12:00 12:15	0	23	23	9	6	15	38
12:15 12:30	0	25	25	18	4	22	47
12:30 12:45	0	26	26	11	5	16	42
12:45 13:00	0	14	14	13	9	22	36
13:00 13:15	0	17	17	10	5	15	32
13:15 13:30	0	15	15	15	2	17	32
15:00 15:15	0	16	16	5	3	8	24
15:15 15:30	0	11	11	4	0	4	15
15:30 15:45	0	15	15	13	5	18	33
15:45 16:00	0	15	15	5	5	10	25
16:00 16:15	0	22	22	12	2	14	36
16:15 16:30	0	18	18	8	3	11	29
16:30 16:45	0	31	31	12	1	13	44
16:45 17:00	0	27	27	7	4	11	38
17:00 17:15	0	33	33	16	8	24	57
17:15 17:30	0	39	39	12	2	14	53
17:30 17:45	0	21	21	6	12	18	39
17:45 18:00	0	33	33	18	7	25	58
Total	0	525	525	253	131	384	909

6	tta	MI.		Tra	ans	роі	rtati	on	Ser	vic	es -	Tra	affic	: Se	rvio	es				
	(114)	1111			Т	urn	ing	Mov	eme	ent (Cou	nt -	Stud	dy R	esu	lts				
				GAI	RLA	ND	ST	@ S	SOM	ERS	SET	ST \	W/W	/ELI	INC	этο	N S	Т		
Surve	y Dat	e: Ti	uesda	ay, Au	gust 2	23, 20	22							wo	No:			4	0519	
Start	Time	: 07	7:00											Dev	ice:			Mie	ovisior	ı
							F	ull S	Stud	у Не	avy	Vel	nicle	s						
				GAR	LAN	D ST					SO	IERS	ET ST	w/w	ELLIN	IGTO	N ST			
		N	orthbo	und	N	So	outhbou	Ind	s	STR	E	astboui	nd	Е	We	estbour	nd	w	STR	Grand
Time Pe	eriod	LT	ST	RT	TOT	LT	ST	RT	тот	TOT	LT	ST	RT	тот	LT	ST	RT	тот	TOT	Total
	07:15	0	0	0	0	0	0	0	0	0	0	6	0	7	0	1	0	7	14	7
-	07:30 07:45	0	0	0	0	0	0	0	1	1	0	2	0	5 5	0	3	1	6 5	11 10	6 5
	07.45	0	0	0	0	0	0	0	0	0	0	1	0	5	0	4	0	5	10	5
08:00	08:15	0	0	0	0	0	0	0	1	1	1	3	0	5	0	1	0	4	9	5
08:15	08:30	0	0	0	0	0	0	0	0	0	0	3	0	8	0	5	0	8	16	8
	08:45	0	0	0	0	0	0	0	0	0	0	4	0	6	0	2	0	6	12	6
	09:00 09:15	0	0	0	0	0	0	0	0	0	0	7	0	10 7	0	3	0	10 7	20 14	10 7
	09:15	0	0	0	0	0	0	0	2	2	2	4	0	9	0	6	0	7	14	9
	09:45	0	0	0	0	0	0	0	0	0	0	4	0	7	0	3	0	7	14	7
09:45	10:00	0	0	0	0	0	0	0	0	0	0	4	0	8	0	4	0	8	16	8
	11:45	0	0	0	0	0	0	0	2	2	0	1	0	5	0	4	2	7	12	7
	12:00	0	0	0	0	0	0	0	0	0	0	4	0	10	0	6	0	10	20	10
	12:15 12:30	0	0	0	0	0	0	0	0	0	0	5	0	8	0	3	0	8	16 12	8
	12:45	0	0	0	ō	0	0	0	1	1	0	6	0	12	0	6	1	13	25	13
12:45	13:00	0	0	0	0	0	0	0	0	0	0	3	0	7	0	4	0	7	14	7
13:00	13:15	0	0	0	0	0	0	0	0	0	0	3	0	6	0	3	0	6	12	6
	13:30	0	0	0	0	0	0	0	1	1	0	2	0	3	0	1	1	4	7	4
_	15:15 15:30	0	0	0	0	0	0	0	0	0	0	3	0	3 7	0	0	0	3 7	6 14	3
	15:30	0	0	0	0	0	0	0	0	0	0	3	0	5	0	4	0	5	14	5
	16:00	0	0	0	0	0	0	0	0	0	0	1	0	4	0	3	0	4	8	4
16:00	16:15	0	0	0	0	0	0	0	0	0	0	1	0	5	0	4	0	5	10	5
	16:30	0	0	0	0	0	0	0	1	1	1	3	0	5	0	1	0	4	9	5
	16:45	0	0	0	0	0	0	0	0	0	0	1	0	2	0	1	0	2	4	2
	17:00 17:15	0	0	0	0	0	0	0	0	0	0	2	0	5 0	0	3	0	5 0	10 0	5
_	17:30	0	0	0	0	0	0	0	0	0	0	1	0	3	0	2	0	3	6	3
	17:45	0	0	0	0	0	0	0	0	0	0	1	0	3	0	2	0	3	6	3
_	18:00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	2	1
Total:	None	0	0	0	0	0	0	0	9	9	4	88	0	182	0	90	5	183	365	187



Turning Movement Count - Study Results GARLAND ST @ SOMERSET ST W/WELLINGTON ST

ate: Tuesda	ay, August 2	3, 2022		WC	D No:	40519
ne: 07:00				De	vice:	Miovision
		Full S	tudy 15 Mir	nute U-Turr	n Total	
		GARLAN			T W/WELLINGTO	N ST
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	0	0	0
07:45	08:00	0	0	0	0	0
08:00	08:15	0	0	0	0	0
08:15	08:30	0	0	0	0	0
08:30	08:45	0	0	0	0	0
08:45	09:00	0	0	0	0	0
09:00	09:15	0	0	0	0	0
09:15	09:30	0	0	0	0	0
09:30	09:45	0	0	0	0	0
09:45	10:00	0	0	0	0	0
11:30	11:45	0	0	1	0	1
11:45	12:00	0	0	0	0	0
12:00	12:15	0	0	0	0	0
12:15	12:30	0	0	0	0	0
12:30	12:45	0	0	0	0	0
12:45	13:00	0	0	0	0	0
13:00	13:15	0	0	0	0	0
13:15	13:30	0	0	0	0	0
15:00	15:15	0	0	0	0	0
15:15	15:30	0	0	0	0	0
15:30	15:45	0	0	0	0	0
15:45	16:00	0	0	0	0	0
16:00	16:15	0	0	0	0	0
16:15	16:30	0	0	0	0	0
16:30	16:45	0	0	0	0	0
16:45	17:00	0	0	0	0	0
17:00	17:15	0	0	0	0	0
17:15	17:30	0	0	0	0	0
17:30	17:45	0	0	0	0	0
17:45	18:00	0	0	0	0	0
Te	otal	0	0	1	0	1



Diagrams, Maps and Photographs



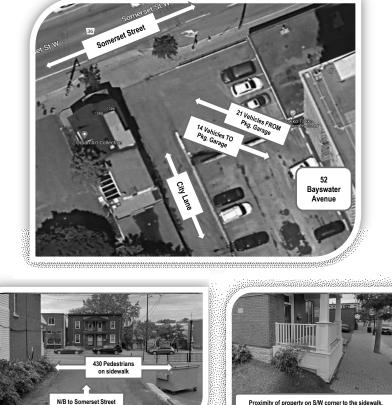


Turning Movement Count Summary, AM and PM Peak Hour Flow Diagrams All Vehicles Except Bicycles



Somerset Street & City Lane

Wednesday, March 08, 2023



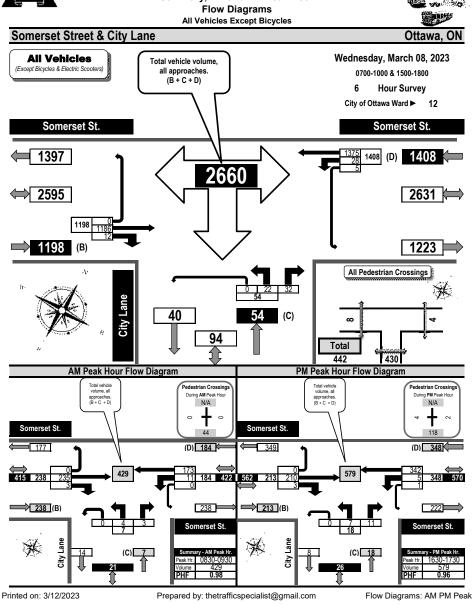


The City lane (unnamed) is located approximately 45 m west of Bayswater Ave. and runs between Laurel St. & Somerset St. There is an access to the parking garage for #52 Bayswater Street at the northerly end of the lane. There is also a small parking lot (5 parking spaces) at the northerly end of the lane that also serves as the access to and from the parking garage. A stop sign is not present facing N/B traffic on the lane at Somerset St. & the presence of a building on the S/W quadrant affords zero visibility of either pedestrians or bicycles on the sidewalk on the south side of Somerset Street. There were 430 pedestrians, including a large daycare group of children, on the south sidewalk.

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Diagrams, Maps and Photographs





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



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0800-0900	_	225	2	0	227	9	160		2	171	398	3		4	0	7						7	405
0900-1000		203	2	0	205	6	181		0	187	392	4		5	0	. 9						. 9	401
1500-1600		209	1	0	210	6	289		1	296	506	4		4	0	8						8	514
1600-1700		199	2	0	201	3	314		2	319	520	4		5	0	9						9	529
1700-1800		229 1186	2	0	231	3 28	310 1375		0	313 1408	544 2606	5 22		8 32	0	13 54						13 54	557 2660
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Comments:

The City lane (unnamed) is located approximately 45 m west of Bayswater Ave. and runs between Laurel St. & Somerset St. There is an access to the parking garage for #52 Bayswater Street at the northerly end of the lane. There is also a small parking jot (5 parking spaces) at the northerly end of the lane that also serves as the access to and from the parking garage. A stop sign is not present facing N/B traffic on the lane at Somerset St. & the presence of a building on the S/W quadrant affords zero visibility of either predestrians or bicycles on the sidewalk on the south side of Somerset Street. There were 430 pedestrians, including a large daycare group of children, on the south sidewalk.

Notes:

1. Includes all vehicle types except bicycles, electric bicycles, and electric scooters.

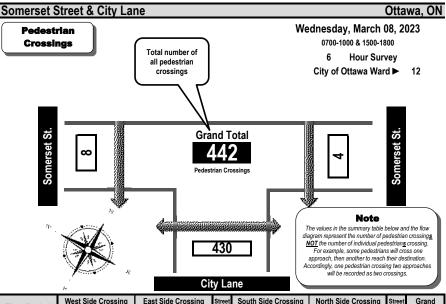
2. When expansion and AADT factors are applied, the results will differ slightly due to rounding.

Printed on: 3/12/2023

Prepared by: thetrafficspecialist@gmail.com

Summary: All Vehicles

Turning Movement Count Pedestrian Crossings Summary and Flow Diagram



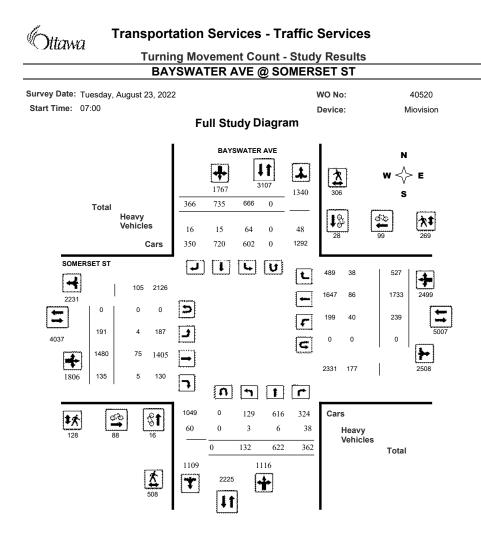
Time Period	West Side Crossing	East Side Crossing	Street	South Side Crossing	North Side Crossing	Street	Grand
Time Periou	Somerset St.	Somerset St.	Total	City Lane	N/A	Total	Total
0700-0800	0	0	0	23		23	23
0800-0900	0	0	0	50		50	50
0900-1000	1	0	1	38		38	39
1500-1600	1	0	1	90		90	91
1600-1700	4	3	7	89		89	96
1700-1800	2	1	3	140		140	143
Totals	8	4	12	430		430	442

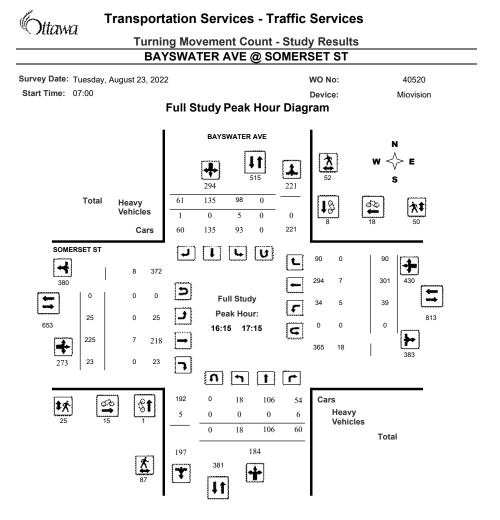
Comments:

The City lane (unnamed) is located approximately 45 m west of Bayswater Ave. and runs between Laurel St. & Somerset St. There is an access to the parking garage for #52 Bayswater Street at the northerly end of the lane. There is also a small parking lot (5 parking spaces) at the northerly end of the lane that also serves as the access to and from the parking garage. A stop sign is not present facing N/B traffic on the lane at Somerset St. & the presence of a building on the S/W quadrant affords zero visibility of either pedestrians or bicycles on the sidewalk on the south side of Somerset Street. There were 430 pedestrians, including a large daycare group of children, on the south sidewalk.

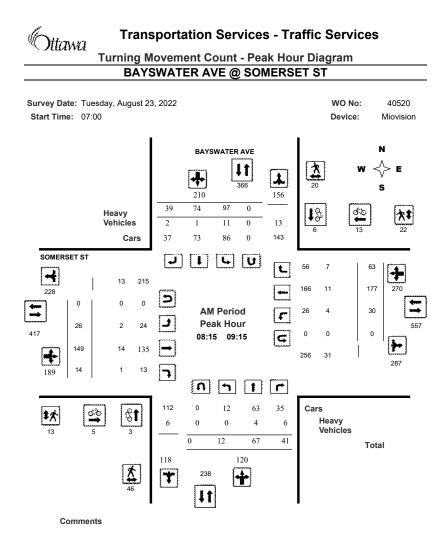
Printed on: 3/12/2023

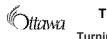
Summary: Pedestrian Crossings



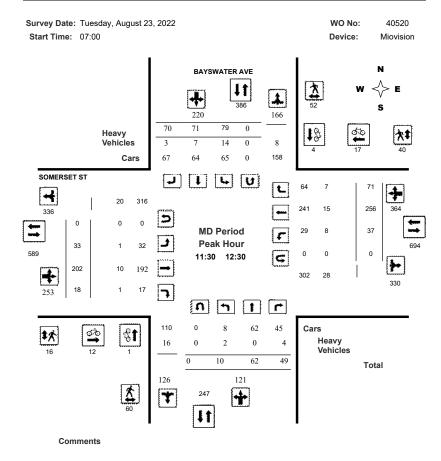


February 28, 2023

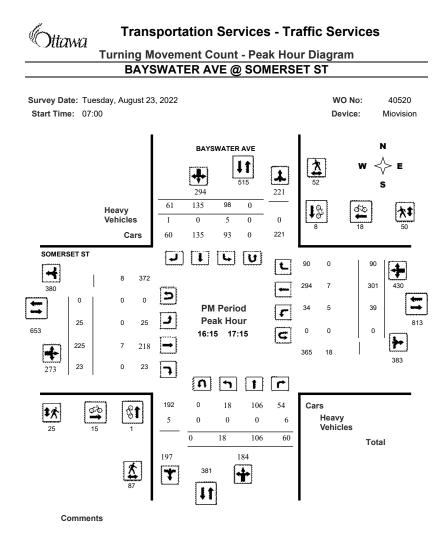




Turning Movement Count - Peak Hour Diagram BAYSWATER AVE @ SOMERSET ST



2023-Feb-28





					BA	(SW)	ATE	R A\	/E @	SO	MEF	SE	r St						
Survey Da	ate: T	uesda	y, Au	gust 23	8, 202	2						wo	No:			40	520		
Start Tin	ne: 0	7:00										Devi	ce:			Miov	ision/		
				F	Full	Stud	y Sı	ımma	ary (8	B HR	R Sta	ndaı	rd)						
Survey Da	ite:	Tuesda	ay, Au	igust 2	3, 202	22		٦	otal O	bserv	/ed U-	Turns					AAD	Facto	or
								lorthbour	0			bound:	0				.90		
		_						Eastboun	id: 0		West	bound:	0						
		E	BAYS	WATE	R AVE							SON	IERS	ET ST					
	No	rthbou	nd		So	uthbou	Ind			E	astbou	ind		V	/estboi	und			•
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Gran Tota
07:00 08:00	8	35	24	67	58	71	21	150	217	17	104	6	127	15	109	40	164	291	50
08:00 09:00	14	65	46	125	101	78	36	215	340	22	160	13	195	34	164	56	254	449	78
09:00 10:00	14	52	44	110	67	67	28	162	272	27	168	18	213	25	179	57	261	474	74
11:30 12:30	10	62	49	121	79	71	70	220	341	33	202	18	253	37	256	71	364	617	95
12:30 13:30	10	72	47	129	74	94	55	223	352	21	195	17	233	27	221	76	324	557	90
15:00 16:00	36	121	50	207	104	115	44	263	470	24	220	24	268	34	258	76	368	636	110
16:00 17:00	22	107	56	185	105	134	57	296	481	20	213	17	250	34	300	86	420	670	115
17:00 18:00	18	108	46	172	78	105	55	238	410	27	218	22	267	33	246	65	344	611	102
Sub Total	132	622	362	1116	666	735	366	1767	2883	191	1480	135	1806	239	1733	527	2499	4305	718
U Turns				0				0	0				0				0	0	(
Total	132	622	362	1116	666	735	366	1767	2883	191	1480	135	1806	239	1733	527	2499	4305	718
EQ 12Hr	183	865	503	1551	926	1022	509	2456	4007	265	2057	188	2510	332	2409	733	3474	5984	999
lote: These v	alues a	re calcu	lated by	y multipl	ying the	totals b	y the a	opropriate	e expans	ion fact	tor.			1.39					
AVG 12Hr	165	778	453	1396	833	1205	600	2210	3606	238	1851	169	2259	299	2168	660	3127	5386	899
lote: These v	olumes	are calo	culated	by multi	piying ti	ne Equiv	alent 1	2 nr. tota	is by the	AADT	factor.			.90					
		1019	593	1829	1091	1579	786	2895	4724	312	2425	221	2959	392	2840	865	4096	7056	1178

Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.

2023-Feb-28	

6)tta	A.#'3		Tra	ans	por	tati	on	Ser	vice	es -	Tra	offic	: Se	rvio	ces				
~~	1.64	**14			т	urn	ing	Mov	eme	ent (Cou	nt -	Stud	dy R	esu	lts				
						BA	YSI	NA1	ER	AVE	0	SO	MEF	RSE'	t si					
Surve	ey Dat	e: Tu	lesda	ay, Au	gust 2	23, 20	22							wo	No:			4	0520	
	- t Time			,, ,	0	- ,								Dev	ico			Miz	ovisior	
••••							E		tud	. 16	: MI	nute	Inc			-		IVII	5415101	
				BAYSV	~~~			un e	luu	y it		nute		IERSE		5				
			∎ orthbo				∟ outhbou				_	astbour		ILKOL		estbour				
					N				s	STR				Е				w	STR	Grand
Time I		LT	ST	RT	тот	LT	ST	RT	тот	тот	LT	ST	RT	тот	LT	ST	RT	тот	тот	Total
	07:15	1	4	2	7	10	12	2	24	31	4	22	1	27	6	29	7	42	69	100
07:15 07:30	07:30 07:45	2	6 13	7	15 20	17 13	18 19	5 7	40 39	55 59	2	24 32	2	28 36	4	27 19	5 14	36 36	64 72	119 131
07:45	07.45	2	13	4	20	13	22	7	39 47	72	8	26	2	36	2	34	14	50	86	151
00:80	08:15	4	12	14	30	26	20	4	50	80	3	52	3	58	11	32	12	55	113	193
08:15	08:30	6	17	13	36	23	18	5	46	82	6	31	2	39	7	41	17	65	104	186
08:30	08:45	2	19	7	28	26	17	11	54	82	6	37	5	48	8	40	10	58	106	188
08:45	09:00	2	17	12	31	26	23	16	65	96	7	40	3	50	8	51	17	76	126	222
09:00	09:15	2	14	9	25	22	16	7	45	70	7	41	4	52	7	45	19	71	123	193
09:15	09:30	6	14	10	30	14	13	5	32	62	5	46	3	54	7	45	17	69	123	185
09:30	09:45	5	11	15	31	17	17	6	40	71	6	37	3	46	8	49	12	69	115	186
09:45 11:30	10:00 11:45	1	13 19	10 11	24 32	14 18	21 23	10 11	45 52	69 84	9 7	44 51	8 5	61 63	3	40 68	9 18	52 93	113 156	182 240
11:45	12:00	2	19	17	34	27	23 19	21	67	101	7	50	3	60	8	63	15	93 86	146	240
12:00	12:15	6	15	11	32	18	15	21	54	86	13	48	7	68	15	62	22	99	167	253
12:15	12:30	0	13	10	23	16	14	17	47	70	6	53	3	62	7	63	16	86	148	218
12:30	12:45	3	20	13	36	29	24	15	68	104	4	45	3	52	10	54	19	83	135	239
12:45	13:00	1	18	10	29	16	32	15	63	92	8	48	7	63	5	48	15	68	131	223
13:00	13:15	3	18	14	35	15	21	10	46	81	4	49	4	57	8	61	22	91	148	229
13:15	13:30	3	16	10	29	14	17	15	46	75	5	53	3	61	4	58	20	82	143	218
15:00 15:15	15:15 15:30	7	28 34	9 14	44 61	25 25	32 32	11 9	68 66	112 127	6 10	55 55	6 4	67 69	7 9	78 57	13 27	98 93	165 162	277 289
15:15	15:30	8	34 23	14	45	25	28	9 18	70	127	6	55 59	4	69 75	9 10	57 60	27	93	162	289
15:45	16:00	8	36	13	57	30	23	6	59	116	2	51	4	57	8	63	13	84	141	257
16:00	16:15	8	28	10	46	25	38	12	75	121	3	45	2	50	7	59	18	84	134	255
16:15	16:30	5	22	15	42	26	23	19	68	110	6	54	4	64	10	68	18	96	160	270
16:30	16:45	6	24	16	46	31	33	11	75	121	7	60	4	71	11	93	24	128	199	320
16:45	17:00	3	33	15	51	23	40	15	78	129	4	54	7	65	6	80	26	112	177	306
17:00	17:15	4	27	14	45	18	39	16	73	118	8	57	8	73	12	60	22	94	167	285
17:15	17:30	4	27	7	38	28	33	16	77	115	4	54	2	60	7	67	16	90	150	265
17:30	17:45 18:00	7	30 24	11 14	48 41	15 17	19 14	12 11	46 42	94 83	7	49 58	5 7	61 73	7	68 51	18 9	93	154 140	248
17:45 Total:	10:00	3 132	24 622	14 362	41 1116	17	14 735	366	42	83 2883	8 191	58 1480	7 135	73 1806	239	51 1733	9 527	67 2499	140 4305	223 7,188

Note: U-Turns are included in Totals.



Transportation Services - Traffic Services

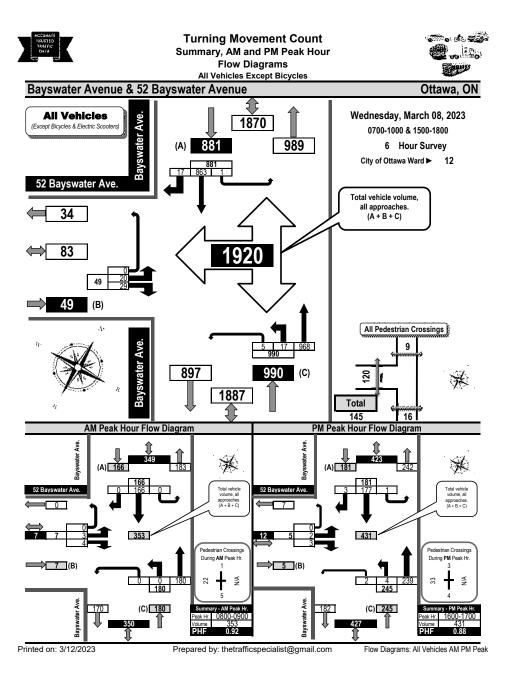
Turning Movement Count - Study Results BAYSWATER AVE @ SOMERSET ST

Start Time	•	August 23, 2022			WO No: Device:	Δ	40520 Niovision
			Eull Study			N	10131011
	_		Full Study	Cyclist v		_	
		BAYSWATER A			SOMERSET S		-
Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total
07:00 07:15	0	0	0	0	0	0	0
07:15 07:30	0	0	0	2	2	4	4
07:30 07:45	0	0	0	0	1	1	1
07:45 08:00	0	1	1	0	1	1	2
08:00 08:15	1	0	1	3	0	3	4
08:15 08:30	0	2	2	2	0	2	4
08:30 08:45	1	2	3	0	4	4	7
08:45 09:00	2	1	3	3	5	8	11
09:00 09:15	0	1	1	0	4	4	5
09:15 09:30	1	0	1	3	1	4	5
09:30 09:45	0	0	0	3	1	4	4
09:45 10:00	0	1	1	1	1	2	3
11:30 11:45	0	1	1	0	1	1	2
11:45 12:00	1	2	3	2	6	8	11
12:00 12:15	0	0	0	3	4	7	7
12:15 12:30	0	1	1	7	6	13	14
12:30 12:45	1	1	2	10	4	14	16
12:45 13:00	1	0	1	2	4	6	7
13:00 13:15	0	1	1	4	4	8	9
13:15 13:30	0	0	0	6	6	12	12
15:00 15:15	0	1	1	0	3	3	4
15:15 15:30	0	0	0	3	3	6	6
15:30 15:45	0	0	0	1	1	2	2
15:45 16:00	1	0	1	1	1	2	3
16:00 16:15	1	1	2	4	2	6	8
16:15 16:30	0	1	1	3	5	8	9
16:30 16:45	1	2	3	7	5	12	15
16:45 17:00	0	3	3	2	2	4	7
17:00 17:15	0	2	2	3	6	9	11
17:15 17:30	2	2	4	4	7	11	15
17:30 17:45	1	1	2	6	5	11	13
17:45 18:00	2	1	3	3	4	7	10
Total	16	28	44	88	99	187	231

Otto	T W	ransportat	ion Se	rvices - Tra	affic Servic	es	
N MU	1114	Turning	Movem	ent Count -	Study Resul	ts	
		BAYS	WATER	AVE @ SO	MERSET ST		
Survey Dat	te: Tuesday, A	August 23, 2022			WO No:		40520
Start Time	e: 07:00	•			Device:		Miovision
		-	ull Stud	ly Pedestria			
		BAYSWATER A		iy reuestila	SOMERSET ST		
		DATSWATERA			SOMERSET ST		
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
07:00 07:15	2	5	7	1	2	3	10
07:15 07:30	2	2	4	0	2	2	6
07:30 07:45	1	3	4	4	4	8	12
07:45 08:00	4	8	12	4	8	12	24
08:00 08:15	6	6	12	4	13	17	29
08:15 08:30	8	6	14	4	5	9	23
08:30 08:45	15	5 4	20	3	7	10	30
08:45 09:00 09:00 09:15	10 13	5	14	2	3	9 7	23
09:00 09:13	8	8	18	7	9	16	25 32
09:30 09:45	6	9	16	0	12	10	27
09:45 10:00	15	6	21	5	2	7	28
11:30 11:45	12	8	20	4	4	8	28
11:45 12:00	15	10	25	3	14	17	42
12:00 12:15	16	19	35	4	11	15	50
12:15 12:30	17	15	32	5	11	16	48
12:30 12:45	27	28	55	8	11	19	74
12:45 13:00	25	11	36	3	10	13	49
13:00 13:15	22	12	34	0	8	8	42
13:15 13:30	20	4	24	0	3	3	27
15:00 15:15	18	5	23	1	10	11	34
15:15 15:30	19	4	23	3	7	10	33
15:30 15:45	15	9	24	1	4	5	29
15:45 16:00	23	4	27	4	3	7	34
16:00 16:15	24	7	31	6	7	13	44
16:15 16:30	19	17	36	6	15	21	57
16:30 16:45 16:45 17:00	24 20	11 13	35 33	4	11	15 24	50 57
16:45 17:00	20	13	35	5	14	15	50
17:15 17:30	35	16	51	9	10	28	79
17:30 17:45	23	8	31	6	13	17	48
17:45 18:00	20	27	47	8	12	20	67
Total	508	306	814	128	269	397	1211
10101	300	500	014	120	203	551	1411

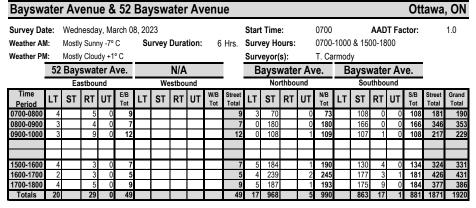


		Т	urning Mov BAYSWAT				
Survey D	ate: Tuesda	ay, August 2	3, 2022		wo) No:	40520
Start Ti	me: 07:00				De	vice:	Miovision
otart m	ne. 07.00						WIOVISION
			FUII S BAYSWATE	tudy 15 Mir R AVE		I I OTAI MERSET ST	
	Time	Period	Northbound U-Turn Total	Southbound U-Turn Total	Eastbound U-Turn Total	Westbound 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	0	0	0
	07:45	08:00	0	0	0	0	0
	08:00	08:15	0	0	0	0	0
	08:15	08:30	0	0	0	0	0
	08:30	08:45	0	0	0	0	0
	08:45	09:00	0	0	0	0	0
	09:00	09:15	0	0	0	0	
	09:15	09:30	0	0	0	0	
	09:30	09:45	0	0	0	0	0 0 0 0 0 0 0 0
	09:45	10:00	0	0	0	0	
	11:30	11:45	0	0	0	0	-
	11:45	12:00	0	0	0	0	-
	12:00	12:15	0	0	0	0	0
	12:15	12:30	0	0	0	0	0
	12:30	12:45	0	0	0	0	0
	12:45	13:00	0	0	0	0	0
	13:00 13:15	13:15 13:30	0	0	0	0	0
	15:00	15:15	0	0	0	0	0
	15:00	15:15	0	0	0	0	0
	15:30	15:45	0	0	0	0	0
	15:45	16:00	0	0	0	0	0
	16:00	16:15	0	0	0	0	0
	16:15	16:30	0	0	0	0	0
	16:30	16:45	0	0	0	0	0
	16:45	17:00	0	0	0	0	0
	17:00	17:15	0	0	0	0	0
	17:15	17:30	0	0	0	0	0
	17:30	17:45	0	0	0	0	0
	17:45	18:00	0	0	0	0	0





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



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 <u>weekday</u> 8-hour turning movement counts conducted during the hours of 0700h - 1000h, 1130h - 1330h and 1500h - 1800h

Eau. 12 Hr n/a														totals I						1.39		
	′a n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Aver	age dail	y 12-ho	ur vehi	icle vol	umes.	These	volume	es are ca	alculate	d by mu	ıltiplyin	g the e	quivale	ent 12-h	our tot	als by t	the AA	DT fact	or of: 1.	0	
AADT 12-hr n/a	/a n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2	4-Hour A	ADT. Th	ese vol	umes a	are calc	ulated	by mu	ltiplying	g the av	erage d	aily 12-	hour ve	hicle v	olumes	by the	12 🔿	4 expa	nsion	factor	of 1.31		_
AADT 24 Hr n/a	/a n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

AM Peak Ho	ur Fac	tor 🖣		0.	92									High	nest	Hourl	y Vehi	icle Vo	lume	Betw	veen ()700h &	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	3	0	4	0	7	0	0	0	0	0	7	0	180	0	0	180	0	166	0	0	166	346	353
OFF Peak Ho	our Fa	ctor 1	⇒	N	/A									High	nest	Hourl	y Vehi	icle Vo	lume	Betw	veen 1	130h &	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.
N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM Peak Hou	ur Fac	tor 🗖	•	0.	88									High	nest	Hourl	y Vehi	icle Vo	lume	Betw	veen 1	500h &	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.
1600-1700	2	0	3	0	5	0	0	0	0	0	5	4	239	0	2	245	0	177	3	1	181	426	431

Comments:

Foliage growing on the property frontage immediately south of the access to 52 Bayswater Avenue obstructs sighlights for drivers exiting the driveway. Drivers cannot see pedestrians or cyclists on the sidewalk when looking south. A total of 120 pedestrians were observed walking on the sidewalk along the west side of Bayswater Avenue.

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.

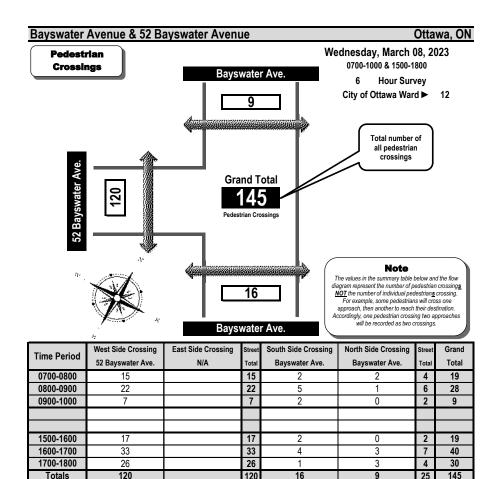
Printed on: 3/12/2023

Prepared by: thetrafficspecialist@gmail.com

Summary: All Vehicles



Turning Movement Count Pedestrian Crossings Summary and Flow Diagram



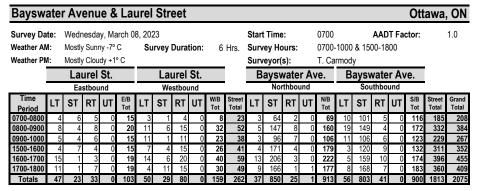
Comments:

Foliage growing on the property frontage immediately south of the access to 52 Bayswater Avenue obstructs sighlights for drivers exiting the driveway. Drivers cannot see pedestrians or cyclists on the sidewalk when looking south. A total of 120 pedestrians were observed walking on the sidewalk along the west side of Bayswater Avenue.

Printed on: 3/12/2023



Turning Movement Count Summary Report Including AM and PM Peak Hours All Vehicles Except Bicycles



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 <u>weekday</u> 8-hour turning movement counts conducted during the hours of 0700h - 1000h, 1130h - 1330h and 1500h - 1800h

Equ. 12 Hr										calculat n/a											.39 n/a	n/a	n/a
		Avera	ne dai	lv 12-h	our veh	icle vo	umes	These	volume	is are ca	alculate	d hv mi	ıltinlvir	a the i	equival	ent 12-	our to	tals hv	the 🗛	DT fac	tor of: 1	0	
AADT 12-hr	n/a																						n/a
	24-H	our AA	DT. Th	ese vo	lumes a	are calc	ulated	by mu	Itiplying	the ave	erage d	aily 12-	hour ve	hicle v	/olume	s by the	12 🗭	24 expa	insion	factor o	of 1.31		
AADT 24 Hr	n/a																				n/a	n/a	n/a

AADT and expansion factors provided by the City of Ottawa

AM Peak Ho	our Fac	tor	•	0.	93						[Hig	hest	Hourly	/ Vehi	cle Vo	lume	Betw	/een O	700h 8	. 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. Total
0800-0900	8	4	8	0	20	11	6	15	0	32	52	5	147	8	0	160	19	149	4	0	172	332	384

PM Peak Ho	ur Fac	tor 🗖	•	0.	84								Hig	hest	Hourly	/ Vehi	cle Vo	lume	Betw	een 1	500h &	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.
1600-1700	15	1	3	0	19	14	6	20	0	40 59	13	206	3	0	222	5	159	10	0	174	396	455

Comments:

Para Transpo buses and school buses comprise 30.00% of the heavy vehicle traffic. A school crossing guard was present assisting pedestrians in the north, east and south crossings during the morning and evening peak periods.

Notes:

1. Includes all vehicle types except bicycles, electric bicycles, and electric scooters.

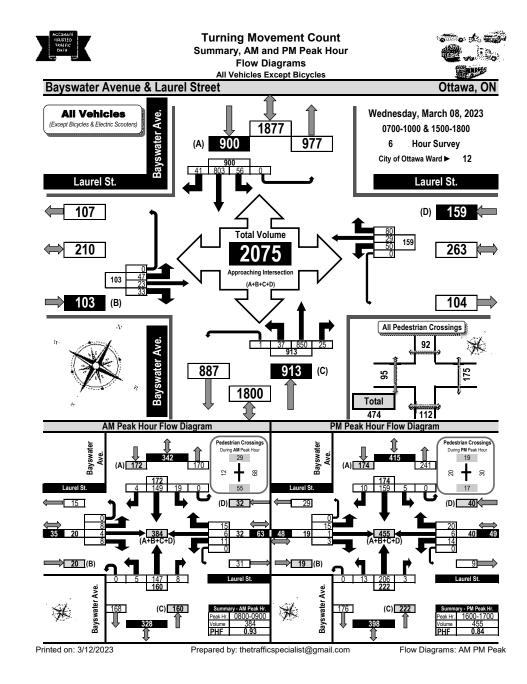
2. When expansion and AADT factors are applied, the results will differ slightly due to rounding.

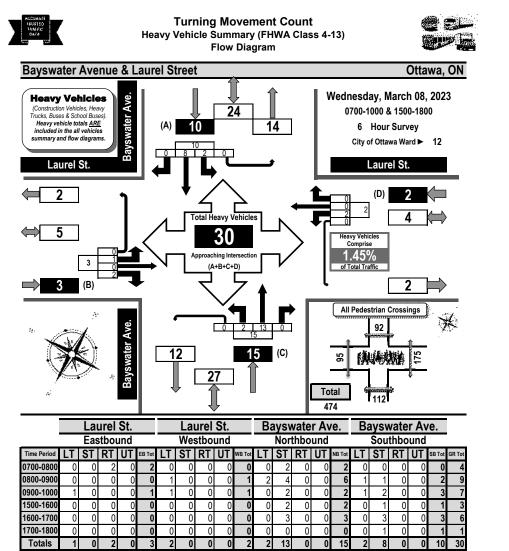
Printed on: 3/12/2023

Prepared by: thetrafficspecialist@gmail.com

Summary: All Vehicles

50 o 1. 200





Comments:

Para Transpo buses and school buses comprise 30.00% of the heavy vehicle traffic. A school crossing guard was present assisting pedestrians in the north, east and south crossings during the morning and evening peak periods.

Printed on: 3/12/2023

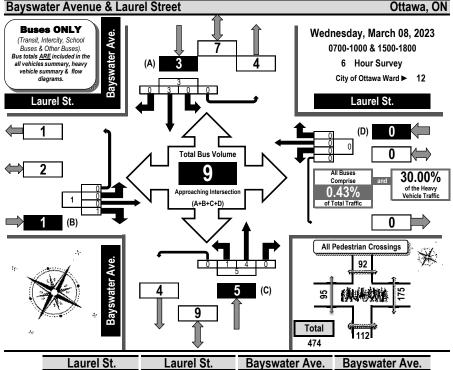
Prepared by: thetrafficspecialist@gmail.com

Summary: Heavy Vehicles



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





		La	urel	St.			La	urel	St.		Ba	aysv	vate	<u>r A</u> \	/e.	Ba	aysv	vate	er Av	/e.	
-		Eas	stbou	und			We	stbo	und			Nor	thbo	und			Sou	thbo	ound		
Time Period	LT	ST	RT	UT	EB Tot	LT	ST	RT	UT	WB Tot	LT	ST	RT	UT	NB Tot	LT	ST	RT	UT	SB Tot	GR Tot
0700-0800	0	0	1	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
0800-0900	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	3
0900-1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1500-1600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1600-1700	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	2	3
1700-1800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
Totals	0	0	1	0	1	0	0	0	0	0	1	4	0	0	5	0	3	0	0	3	9

Comments:

Para Transpo buses and school buses comprise 30.00% of the heavy vehicle traffic. A school crossing guard was present assisting pedestrians in the north, east and south crossings during the morning and evening peak periods.

Printed on: 3/12/2023

Summary: Buses Only

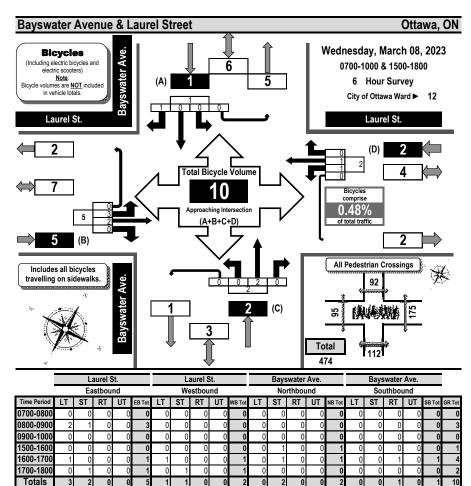


Turning Movement Count Bicycle Summary Flow Diagram





Turning Movement Count Pedestrian Crossings Summary and Flow Diagram



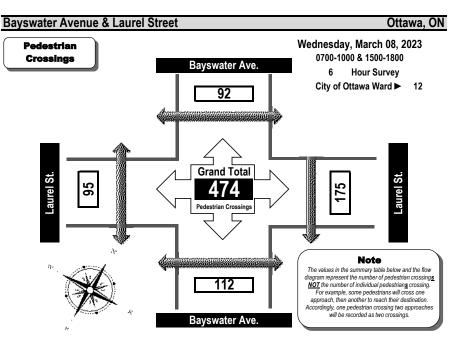
Comments:

Para Transpo buses and school buses comprise 30.00% of the heavy vehicle traffic. A school crossing guard was present assisting pedestrians in the north, east and south crossings during the morning and evening peak periods.



Prepared by: thetrafficspecialist@gmail.com

Summary: Bicycles



Time Devied	West Side Crossing	East Side Crossing	Street	South Side Crossing	North Side Crossing	Street	Grand
Time Period	Laurel St.	Laurel St.	Total	Bayswater Ave.	Bayswater Ave.	Total	Total
0700-0800	10	24	34	12	7	19	53
0800-0900	12	68	80	55	29	84	164
0900-1000	6	3	9	10	7	17	26
1500-1600	30	19	49	8	17	25	74
1600-1700	20	30	50	17	19	36	86
1700-1800	17	31	48	10	13	23	71
Totals	95	175	270	112	92	204	474

Comments:

Para Transpo buses and school buses comprise 30.00% of the heavy vehicle traffic. A school crossing guard was present assisting pedestrians in the north, east and south crossings during the morning and evening peak periods.

Printed on: 3/12/2023

Prepared by: thetrafficspecialist@gmail.com

Summary: Pedestrian Crossings

Appendix C

Synchro Intersection Worksheets – Existing Conditions



Lanes, Volumes, Timings	
Lanes, volumes, rimings	
1: Bavview Station Rd & Scott St/Albert St	

Existing AM Peak Hour 50 Bayswater Avenue, 1088 Somerset Street West

	≯	-	\mathbf{i}	4	-		1	1	1	1	÷.	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ę	1	5	1	7	7	f,		5	ţ,	
Traffic Volume (vph)	21	504	69	55	178	27	41	44	95	156	159	11
Future Volume (vph)	21	504	69	55	178	27	41	44	95	156	159	11
Satd. Flow (prot)	0	1692	1469	1433	1679	1363	1610	1493	0	1658	1696	0
Flt Permitted		0.985		0.383			0.544			0.622		
Satd. Flow (perm)	0	1667	1346	567	1679	1267	904	1493	0	1064	1696	0
Satd. Flow (RTOR)			77			37		105			3	
Lane Group Flow (vph)	0	583	77	61	198	30	46	155	0	173	189	0
Turn Type	Perm	NA	Perm	Perm	NA	Perm	Perm	NA		Perm	NA	
Protected Phases		2			6			8			4	
Permitted Phases	2		2	6		6	8			4		
Detector Phase	2	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	10.0	
Minimum Split (s)	32.5	32.5	32.5	32.5	32.5	32.5	32.4	32.4		32.4	32.4	
Total Split (s)	67.6	67.6	67.6	67.6	67.6	67.6	32.4	32.4		32.4	32.4	
Total Split (%)	67.6%	67.6%	67.6%	67.6%	67.6%	67.6%	32.4%	32.4%		32.4%	32.4%	
Maximum Green (s)	61.1	61.1	61.1	61.1	61.1	61.1	26.0	26.0		26.0	26.0	
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		3.3	3.3	
All-Red Time (s)	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1		3.1	3.1	
Lost Time Adjust (s)	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Lost Time (s)		6.5	6.5	6.5	6.5	6.5	6.4	6.4		6.4	6.4	
Lead/Lag		0.0	0.0	0.0	0.0	0.0	0.4	0.4		0.4	0.4	
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max	C-Max	C-Max	C-Max	C-Max	None	None		None	None	
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0		7.0	7.0	
Flash Dont Walk (s)	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0		19.0	19.0	
Pedestrian Calls (#/hr)	29	29	29	26	26	26	13	13		14	14	
Act Effct Green (s)	23	67.0	67.0	67.0	67.0	67.0	20.1	20.1		20.1	20.1	
Actuated g/C Ratio		0.67	0.67	0.67	0.67	0.67	0.20	0.20		0.20	0.20	
v/c Ratio		0.52	0.07	0.07	0.07	0.07	0.20	0.20		0.20	0.20	
Control Delay		11.5	2.1	8.9	7.5	2.2	35.0	15.0		64.9	40.5	
Queue Delay		0.0	0.0	0.9	0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay		11.5	2.1	8.9	7.5	2.2	35.0	15.0		64.9	40.5	
LOS		B	2.1 A	0.5 A	7.5 A	2.2 A	55.0 C	13.0 B		04.5 E	40.5 D	
Approach Delay		10.4	~	~	7.3	~	U	19.6		L	52.2	
Approach LOS		10.4 B			7.5 A			13.0 B			J2.2	
Queue Length 50th (m)		52.6	0.0	4.0	13.2	0.0	7.5	8.0		31.9	32.3	
Queue Length 95th (m)		92.3	5.2	4.0	25.7	2.8	16.5	23.4		52.8	50.3	_
Internal Link Dist (m)		378.4	J.Z	11.0	472.1	2.0	10.5	344.7		52.0	298.3	
Turn Bay Length (m)		510.4	40.0	62.0	412.1	40.0	52.0	344.7		42.0	290.3	
Base Capacity (vph)		1117	40.0 927	62.0 380	1125	40.0 861	52.0 235	465		42.0	443	
Starvation Cap Reductn		0	927	380	1125	0	235	465 0		276	443	
		0	0	0		0		0			0	
Spillback Cap Reductn		0	0	0	0	0	0	0		0	0	
Storage Cap Reductn Reduced v/c Ratio		0.52	0.08	0.16	0.18	0.03	0.20	0.33		0.63	0.43	
		0.52	0.00	U. 10	U. 10	0.03	0.20	0.33		0.03	0.43	
Intersection Summary												

02/07/2025

CGH Transportation Page 1

Lanes, Volumes, Timings 1: Bayview Station Rd & Scott St/A	lbert St	Existing AM Peak Hour 50 Bayswater Avenue, 1088 Somerset Street West
Cycle Length: 100		
Actuated Cycle Length: 100		
Offset: 40 (40%), Referenced to phase 2:EBTL and	6:WBTL, Start of Green	
Natural Cycle: 65		
Control Type: Actuated-Coordinated		
Maximum v/c Ratio: 0.81		
Intersection Signal Delay: 21.0	Intersection LOS: C	
Intersection Capacity Utilization 87.2%	ICU Level of Service E	
Analysis Period (min) 15		

Splits and Phases: 1: Bayview Station Rd & Scott St/Albert St

≠ Ø2 (R)	₩04
67.6 s	32.4 s
●	<\$ [↑] Ø8
67.6 s	32.4 s

Lanes, Volumes, Timings 2: Fairmont Ave & Wellington St W Existing AM Peak Hour 50 Bayswater Avenue, 1088 Somerset Street West

	-	\mathbf{r}	4	+	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	4	2011		<u>بارينا</u>	Y	
Traffic Volume (vph)	228	55	26	159	28	28
Future Volume (vph)	228	55	26	159	28	28
Satd. Flow (prot)	1619	0	0	1650	1420	0
Flt Permitted	1010	5	0	0.936	0.976	5
Satd. Flow (perm)	1619	0	0	1535	1406	0
Satd. Flow (RTOR)	29	5	0		31	5
Lane Group Flow (vph)	314	0	0	206	62	0
Turn Type	NA	0	Perm	NA	Perm	0
Protected Phases	2		1 0111	6	1 0111	
Permitted Phases	2		6	0	8	
Detector Phase	2		6	6	8	
Switch Phase	2		0	0	0	
Minimum Initial (s)	10.0		10.0	10.0	5.0	
Minimum Split (s)	24.4		15.4	15.4	24.2	
Total Split (s)	24.4 45.0		45.0	45.0	24.2	
	45.0 64.3%		45.0 64.3%	45.0 64.3%	25.0 35.7%	
Total Split (%) Maximum Green (s)	64.3% 39.6		64.3% 39.6	64.3% 39.6	35.7% 19.8	
	39.6		39.6	39.6	3.3	
Yellow Time (s) All-Red Time (s)	3.3		3.3 2.1	3.3 2.1	3.3 1.9	
All-Red Time (s) Lost Time Adjust (s)	2.1		Z.1	2.1	1.9	
	0.0 5.4				5.2	
Total Lost Time (s)	5.4			5.4	5.2	
Lead/Lag						
Lead-Lag Optimize?	2.0		2.0	2.0	2.0	
Vehicle Extension (s)	3.0	_	3.0	3.0	3.0	_
Recall Mode	C-Max		C-Max	C-Max	None	
Walk Time (s)	7.0	_			7.0	
Flash Dont Walk (s)	12.0				12.0	
Pedestrian Calls (#/hr)	78			10.5	55	
Act Effct Green (s)	49.0			49.0	13.6	
Actuated g/C Ratio	0.70			0.70	0.19	
v/c Ratio	0.27			0.19	0.21	
Control Delay	6.6			10.8	13.7	
Queue Delay	0.0			0.0	0.0	
Total Delay	6.6			10.8	13.7	
LOS	A			В	В	
Approach Delay	6.6			10.8	13.7	
Approach LOS	A			В	В	
Queue Length 50th (m)	17.3			21.4	3.0	
Queue Length 95th (m)	30.6			35.5	11.2	
Internal Link Dist (m)	57.5			146.4	73.7	
Turn Bay Length (m)						
Base Capacity (vph)	1142			1074	419	
Starvation Cap Reductn	0			0	0	
Spillback Cap Reductn	0			0	0	
Storage Cap Reductn	0			0	0	
Reduced v/c Ratio	0.27			0.19	0.15	
	0.21			00	00	
Intersection Summary						

02/07/2025

CGH Transportation Page 3

 Lanes, Volumes, Timings
 Existing AM Peak Hour

 2: Fairmont Ave & Wellington St W
 50 Bayswater Avenue, 1088 Somerset Street West

 Cycle Length: 70

 Actuated Cycle Length: 70

 Offset: 65 (33%), Referenced to phase 2:EBT and 6:WBTL, Start of Green

 Natural Cycle: 50

 Control Type: Actuated-Coordinated

 Maximum v/c Ratio: 0.27

 Intersection Signal Delay: 8.8

 Intersection LOS: A

 Intersection Capacity Utilization 55.1%

 ICU Level of Service B

 Analysis Period (min) 15

Splits and Phases: 2: Fairmont Ave & Wellington St W

→Ø2 (R)	
45 s	
Ø6 (R)	
45 s	25 s

Lanes, Volumes, Timings 3: Wellington St W/Somerset St W & Garland St Existing AM Peak Hour 50 Bayswater Avenue, 1088 Somerset Street West

	≯	-	-		1	1	
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR	Ø4
Lane Configurations		ų	¢Î				
Traffic Volume (vph)	23	220	201	10	0	0	
Future Volume (vph)	23	220	201	10	0	0	
Satd. Flow (prot)	0	1652	1650	0	0	0	
Flt Permitted	Ŭ	0.964		Ŭ	· ·	Ŭ	
Satd. Flow (perm)	0	1594	1650	0	0	0	
Satd. Flow (RTOR)			8	-	-	-	
Lane Group Flow (vph)	0	270	234	0	0	0	
Turn Type	Perm	NA	NA	Ŭ	Ŭ	Ŭ	
Protected Phases		2	6				4
Permitted Phases	2	2	U				7
Detector Phase	2	2	6				
Switch Phase	2	2	5				
Minimum Initial (s)	10.0	10.0	10.0	_			5.0
Minimum Split (s)	15.5	15.5	25.5				17.7
Total Split (s)	52.0	52.0	52.0				18.0
Total Split (%)	74.3%	74.3%	74.3%				26%
Maximum Green (s)	46.5	46.5	46.5				12.3
Yellow Time (s)	40.5	40.5	3.3				3.0
	2.2	2.2	2.2				2.7
All-Red Time (s)	Ζ.Ζ	0.0	0.0				2.1
Lost Time Adjust (s) Total Lost Time (s)		5.5	5.5				
		0.0	0.0				
Lead/Lag							
Lead-Lag Optimize?	3.0	3.0	3.0				3.0
Vehicle Extension (s)			3.0 C-Max				
Recall Mode	C-Max	C-Max	C-Max 14.0				None 7.0
Walk Time (s)							
Flash Dont Walk (s)			5.0				5.0
Pedestrian Calls (#/hr)		05.4	34				13
Act Effct Green (s)		65.4	65.4				
Actuated g/C Ratio		0.93	0.93				
v/c Ratio		0.18	0.15				
Control Delay		0.9	1.1				
Queue Delay		0.0	0.0				
Total Delay		0.9	1.1				
LOS		A	А				
Approach Delay		0.9	1.1				
Approach LOS		A	A				
Queue Length 50th (m)		0.0	0.0				
Queue Length 95th (m)		5.3	11.3				
nternal Link Dist (m)		146.4	102.6		69.9		
Turn Bay Length (m)							
Base Capacity (vph)		1488	1541				
Starvation Cap Reductn		0	0				
Spillback Cap Reductn		0	0				
Storage Cap Reductn		0	0				
Reduced v/c Ratio		0.18	0.15				

02/07/2025

CGH Transportation Page 5

 Lanes, Volumes, Timings
 Existing AM Peak Hour

 3: Wellington St W/Somerset St W & Garland St
 50 Bayswater Avenue, 1088 Somerset Street West

 Cycle Length: 70
 Actuated Cycle Length: 70

 Actuated Cycle Length: 70
 Offset: 7 (10%), Referenced to phase 2:EBTL and 6:WBT, Start of Green

 Natural Cycle: 45
 Control Type: Actuated-Coordinated

 Maximum v/c Ratio: 0.18
 Intersection LOS: A

 Intersection Signal Delay: 1.0
 Intersection LOS: A

 Intersection Gapacity Utilization 47.2%
 ICU Level of Service A

 Analysis Period (min) 15
 Start of Service A

Splits and Phases: 3: Wellington St W/Somerset St W & Garland St

J → Ø2 (R)	e ø4	e ø4			
52 s		18 s			
← Ø6 (R)					
52 s					

HCM 2010 TWSC 4: City laneway & Somerset St W Existing AM Peak Hour 50 Bayswater Avenue, 1088 Somerset Street West

	_					
Intersection						
Int Delay, s/veh	0.4					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	4			ę	۰Y	
Traffic Vol, veh/h	186	3	11	217	4	3
Future Vol, veh/h	186	3	11	217	4	3
Conflicting Peds, #/hr	0	44	44	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-		0	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	207	3	12	241	4	3
Major/Minor Ma	ajor1	,	Acies?	,	Minor1	
	-		Major2			050
Conflicting Flow All	0	0	254	0	518 253	253
Stage 1		-	-			-
Stage 2	-	-	-		265	
Critical Hdwy			4.12	-	6.42	
Critical Hdwy Stg 1	-	-	-		5.42	-
Critical Hdwy Stg 2	-		-		5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	
Pot Cap-1 Maneuver		-	1311		518	786
Stage 1	-	-	-		789	-
Stage 2		-		-	779	
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver		-	1266	-	495	759
Mov Cap-2 Maneuver	-	-	-	-	495	-
Stage 1					762	-
Stage 2	-	-	-	-	770	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.4		11.3	
HCM LOS	0		0.4		B	
TIOW LOO					D	
Minor Lane/Major Mvmt		NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		582	-	-	1266	-
HCM Lane V/C Ratio		0.013	-	-	0.01	-
HCM Control Delay (s)		11.3	-	-	7.9	0
HCM Lane LOS		В	-	-	А	А
HCM 95th %tile Q(veh)		0	-	-	0	-

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	- >	-	\rightarrow	1	-		1	T.	1	- >	÷	*
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SE
Lane Configurations		ę	1		ę	1		÷		٦	ĥ	
Traffic Volume (vph)	26	149	14	30	177	63	12	122	41	97	124	
Future Volume (vph)	26	149	14	30	177	63	12	122	41	97	124	
Satd. Flow (prot)	0	1624	1414	0	1652	1363	0	1572	0	1523	1653	
Flt Permitted		0.936			0.940			0.978		0.664		
Satd. Flow (perm)	0	1526	1291	0	1553	1283	0	1540	0	1039	1653	
Satd. Flow (RTOR)			45			70		27			27	
Lane Group Flow (vph)	0	195	16	0	230	70	0	195	0	108	181	
Turn Type	Perm	NA	Perm	Perm	NA	Perm	Perm	NA		Perm	NA	
Protected Phases		2			6			8			4	
Permitted Phases	2		2	6		6	8			4		
Detector Phase	2	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	10.0	
Minimum Split (s)	33.5	33.5	33.5	33.5	33.5	33.5	29.9	29.9		29.9	29.9	
Total Split (s)	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0		35.0	35.0	
Total Split (%)	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%		50.0%	50.0%	
Maximum Green (s)	29.5	29.5	29.5	29.5	29.5	29.5	29.1	29.1		29.1	29.1	
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		3.3	3.3	
All-Red Time (s)	2.2	2.2	2.2	2.2	2.2	2.2	2.6	2.6		2.6	2.6	
Lost Time Adjust (s)		0.0	0.0		0.0	0.0	2.0	0.0		0.0	0.0	
Total Lost Time (s)		5.5	5.5		5.5	5.5		5.9		5.9	5.9	
Lead/Lag		0.0	0.0		0.0	0.0		0.0		0.0	0.0	_
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max	C-Max	C-Max	C-Max	C-Max	Max	Max		Max	Max	
Walk Time (s)	17.0	17.0	17.0	17.0	17.0	17.0	13.0	13.0		13.0	13.0	
Flash Dont Walk (s)	8.0	8.0	8.0	8.0	8.0	8.0	10.0	10.0		10.0	10.0	
Pedestrian Calls (#/hr)	46	46	46	20	20	20	22	22		13	13	
Act Effct Green (s)	+0	29.5	29.5	20	29.5	29.5	22	29.1		29.1	29.1	
Actuated g/C Ratio		0.42	0.42		0.42	0.42		0.42		0.42	0.42	
v/c Ratio		0.42	0.42		0.42	0.42		0.42		0.42	0.42	
Control Delay		9.7	0.03		15.7	4.2		13.2		15.4	12.5	
Queue Delay		0.0	0.0		0.0	4.2		0.0		0.0	0.0	
Total Delay		9.7	0.0		15.7	4.2		13.2		15.4	12.5	
LOS		9.7 A	0.1 A		15.7 B	4.Z		13.2 B		15.4 B	12.5 B	
		8.9	A		13.0	A		13.2		D	13.6	
Approach Delay		0.9 A			13.0 B			IS.Z B			13.0 B	
Approach LOS		7.6	0.0		19.7	0.0		13.9		8.9		
Queue Length 50th (m)	_	7.6	0.0			0.0 6.4				8.9	12.5	
Queue Length 95th (m)		8.7 29.3	0.2		35.2 373.3	0.4		27.3 51.0		19.2	24.8 344.7	
Internal Link Dist (m)	_	29.3	22.0	_	313.3	40.0	_	51.0	_	E0.0	344.7	
Turn Bay Length (m)		040	33.0		05.4	40.0		055		58.0	700	
Base Capacity (vph)	_	643	570		654	581		655	_	431	702	_
Starvation Cap Reductn		0	0		0	0		0		0	0	
Spillback Cap Reductn	_	0	0		0	0		0		0	0	_
Storage Cap Reductn		0	0		0	0		0		0	0	
Reduced v/c Ratio		0.30	0.03		0.35	0.12		0.30		0.25	0.26	

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Lanes, Volumes, Timings		Existing AM Peak Hour
5: Baywater Ave & Somerset St W		50 Bayswater Avenue, 1088 Somerset Street West
Cycle Length: 70		
Actuated Cycle Length: 70		
Offset: 19 (27%), Referenced to phase 2:EBTL and 6:V	VBTL, Start of Green	
Natural Cycle: 65		
Control Type: Actuated-Coordinated		
Maximum v/c Ratio: 0.35		
Intersection Signal Delay: 12.3	Intersection LOS: B	
Intersection Capacity Utilization 88.2%	ICU Level of Service E	
Analysis Period (min) 15		

Splits and Phases: 5: Baywater Ave & Somerset St W

Ø2 (R)	₩Ø4
35 s	35 s
Ø6 (R)	<1 øs
35 s	35 s

HCM 2010 TWSC
6: Baywater Ave & 50 Bayswater

Existing AM Peak Hour 50 Bayswater Avenue, 1088 Somerset Street West

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	EBL M	EDR	INDL	NB I		SBR
		4	0		1	0
Traffic Vol, veh/h	3	4	0	180	166	0
Future Vol, veh/h	3	4	0	180	166	0
Conflicting Peds, #/hr	1	5	5	0	0	_ 22
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	3	4	0	200	184	0
	Ū		, v	200		Ű
	Minor2		Major1		Major2	
Conflicting Flow All	407	211	206	0	-	0
Stage 1	206	-	-	-	-	-
Stage 2	201	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-			-
Critical Hdwy Stg 2	5.42	-		-	-	-
Follow-up Hdwy		3.318	2 2 1 8		-	-
Pot Cap-1 Maneuver	600		1365	-	-	-
Stage 1	829		-			
Stage 2	833	-	-	-	-	-
Platoon blocked, %	000	-				
Mov Cap-1 Maneuver	580	812	1342			
		-		-	-	-
Mov Cap-2 Maneuver	580		-	-	-	-
Stage 1	815					
Stage 2	819	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	10.3		0		0	
HCM LOS	B		v		0	
	2					
Minor Lane/Major Mvmt		NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1342	-	693	-	-
HCM Lane V/C Ratio			-	0.011	-	-
HCM Control Delay (s)		0	-	10.3	-	-
HCM Lane LOS		А	-	В	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-
all all all all all all all all all all	/					

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HCM 2010 AWSC
1101VI 2010 AVISC
7: Baywater Ave & Laurel St

Existing AM Peak Hour 50 Bayswater Avenue, 1088 Somerset Street West

Intersection Intersection Delay, s/veh	8.9											
Intersection LOS	0.9 A											
Intersection LOS	A											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBI
Lane Configurations		\$			÷			\$			\$	
Traffic Vol, veh/h	8	4	8	11	6	15	5	147	8	19	149	
Future Vol, veh/h	8	4	8	11	6	15	5	147	8	19	149	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.9
Heavy Vehicles, %	2	2	2	9	2	2	40	3	2	5	2	
Mvmt Flow	9	4	9	12	7	17	6	163	9	21	166	
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			1			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay	7.9			8			9.5			8.6		
HCM LOS	А			А			А			А		
Lane		NBLn1	EBLn1		SBLn1							
Vol Left, %		3%	40%	34%	11%							
Vol Thru, %		92%	20%	19%	87%							
Vol Right, %		5%	40%	47%	2%							
Sign Control		Stop	Stop	Stop	Stop							
Traffic Vol by Lane		160	20	32	172							
LT Vol		5	8	11	19							
Through Vol		147	4	6	149							
RT Vol		8	8	15	4							
Lane Flow Rate		178	22	36	191							
Geometry Grp		1	1	1	1							
Degree of Util (X)		0.242	0.029	0.047	0.23							
Departure Headway (Hd)		4.906	4.689	4.738	4.337							
Convergence, Y/N		Yes	Yes	Yes	Yes							
Сар		736	764	757	829							
Service Time		2.906	2.711	2.758	2.351							
HCM Lane V/C Ratio		0.242	0.029	0.048	0.23							
HCM Control Delay		9.5	7.9	8	8.6							
HCM Lane LOS		Α	Α	A	A							
HCM 95th-tile Q		0.9	0.1	0.1	0.9							

ane Group ane Configurations Traffic Volume (vph) Tuture Volume (vph)	EBL	EDT										
ane Configurations Traffic Volume (vph)		EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SI
raffic Volume (vph)		र्स	1	ኘ	↑	1	٦	f,		5	ţ,	
	17	399	84	80	449	183	61	146	59	52	72	
	17	399	84	80	449	183	61	146	59	52	72	
Satd. Flow (prot)	0	1725	1483	1537	1728	1483	1658	1647	0	1658	1635	
It Permitted	v	0.973	1400	0.464	1120	1400	0.687	1041	0	0.446	1000	
Satd. Flow (perm)	0	1681	1350	728	1728	1378	1155	1647	0	764	1635	
Satd. Flow (RTOR)	v	1001	93	120		203		20	Ű		17	
ane Group Flow (vph)	0	462	93	89	499	203	68	228	0	58	108	
urn Type	Perm	NA	Perm	Perm	NA	Perm	Perm	NA	0	Perm	NA	
Protected Phases	1 Cilli	2	1 Cilli	1 Gilli	6	1 cm	1 Cilli	8		1 CIIII	4	
Permitted Phases	2	2	2	6	0	6	8	0		4	7	
Detector Phase	2	2	2	6	6	6	0 8	8		4	4	
Switch Phase	2	2	2	0	0	0	0	0		4	-+	
Ainimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	_	10.0	10.0	
	32.5	32.5	32.5	32.5	32.5	32.5	32.4	32.4		32.4	32.4	
/inimum Split (s)								32.4		32.4	32.4	
Total Split (s)	67.6 67.6%	67.6 67.6%	67.6 67.6%	67.6 67.6%	67.6 67.6%	67.6 67.6%	32.4 32.4%	32.4%		32.4%	32.4%	
(ellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		3.3	3.3	
All-Red Time (s)	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1		3.1	3.1	_
ost Time Adjust (s)		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
otal Lost Time (s)		6.5	6.5	6.5	6.5	6.5	6.4	6.4		6.4	6.4	_
.ead/Lag												
ead-Lag Optimize?	~ 14	0.14	0.14	0.14	0.14	0.14						_
	C-Max		C-Max	C-Max	C-Max	C-Max	None	None		None	None	
Act Effct Green (s)		67.9	67.9	67.9	67.9	67.9	19.2	19.2		19.2	19.2	
ctuated g/C Ratio		0.68	0.68	0.68	0.68	0.68	0.19	0.19		0.19	0.19	
/c Ratio		0.40	0.10	0.18	0.43	0.20	0.31	0.69		0.40	0.33	
Control Delay		9.5	2.0	8.5	9.7	1.7	36.0	44.0		41.1	30.0	
Queue Delay		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
otal Delay		9.5	2.0	8.5	9.7	1.7	36.0	44.0		41.1	30.0	
.0S		A	A	A	A	A	D	D		D	С	
Approach Delay		8.2			7.5			42.2			33.9	
Approach LOS		A			A			D			С	
Queue Length 50th (m)		33.5	0.0	5.3	36.9	0.0	11.6	38.4		10.1	15.5	
Queue Length 95th (m)		65.9	5.6	14.7	71.8	8.1	21.8	57.4		20.4	27.9	
nternal Link Dist (m)		378.4			472.1			347.9			298.3	
urn Bay Length (m)			40.0	62.0		40.0	52.0			42.0		
Base Capacity (vph)		1141	946	494	1173	1000	300	443		198	437	
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		0.40	0.10	0.18	0.43	0.20	0.23	0.51		0.29	0.25	
ntersection Summary Cycle Length: 100												

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Lanes, Volumes, Timings 1: Bayview Station Rd & Scott St/Albert St

Existing PM Peak Hour 50 Bayswater Avenue, 1088 Somerset Street West

Maximum v/c Ratio: 0.69	
Intersection Signal Delay: 15.8	Intersection LOS: B
Intersection Capacity Utilization 93.7%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 1: Bayview Station Rd & Scott St/Albert St

opilio and i nasos.	1. Daynew Otation No & Ocoli Ol/libert Ot		
Ø2 (R)		Ø4	
67.6 s		32.4 s	
Ø6 (R)		A @8	
67.6 s		32.4 s	

		\mathbf{i}	1	-	•	1	
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	î,	2011		<u>بورر</u>	Y		
Traffic Volume (vph)	259	64	46	296	36	48	
Future Volume (vph)	259	64	40	296	36	48	
Satd. Flow (prot)	1599	0	0	1733	1424	-0	
Flt Permitted	1333	0	0	0.917	0.979	0	
Satd. Flow (perm)	1599	0	0	1566	1384	0	
Satd. Flow (PEIII) Satd. Flow (RTOR)	29	0	0	1000	53	0	
	359	0	0	380	53 93	0	
Lane Group Flow (vph)		U				U	
Turn Type	NA		Perm	NA	Perm		
Protected Phases	2		0	6	0		
Permitted Phases	0		6	0	8		
Detector Phase	2		6	6	8		
Switch Phase							
Vinimum Initial (s)	10.0		10.0	10.0	5.0		
Vinimum Split (s)	24.4		15.4	15.4	24.2		
Total Split (s)	50.0		50.0	50.0	25.0		
Total Split (%)	66.7%		66.7%	66.7%	33.3%		
Yellow Time (s)	3.3		3.3	3.3	3.3		
All-Red Time (s)	2.1		2.1	2.1	1.9		
Lost Time Adjust (s)	0.0			0.0	0.0		
Total Lost Time (s)	5.4			5.4	5.2		
Lead/Lag							
Lead-Lag Optimize?							
Recall Mode	C-Max		C-Max	C-Max	None		
Act Effct Green (s)	51.3			51.3	16.3		
Actuated g/C Ratio	0.68			0.68	0.22		
//c Ratio	0.33			0.35	0.27		
Control Delay	7.3			5.0	13.9		
Queue Delay	0.0			0.0	0.0		
Total Delay	7.3			5.0	13.9		
LOS	A			A	В		
Approach Delay	7.3			5.0	13.9		
Approach LOS	A			A	B		
Queue Length 50th (m)	20.7			23.5	4.4		
Queue Length 95th (m)	35.5			24.3	15.2		
Internal Link Dist (m)	57.5			146.4	73.7		
Turn Bay Length (m)	31.5			1-0.4	15.1		
Base Capacity (vph)	1103			1071	404		
Starvation Cap Reductn	0			0	404		
	0		_	0	0		
Spillback Cap Reductn	0			0	0		
Storage Cap Reductn Reduced v/c Ratio	0.33			0.35	0.23		
	0.33			0.55	0.23		
ntersection Summary							
Cycle Length: 75							
Actuated Cycle Length: 75							
Offset: 24 (32%), Reference	ed to phase :	2:EBT a	nd 6:WBT	L, Start o	t Green		
Natural Cycle: 50							
Control Type: Actuated-Cod	ordinated						

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Lanes, Volumes, Timings
, 0
2: Fairmont Ave & Wellington St W

Existing PM Peak Hour 50 Bayswater Avenue, 1088 Somerset Street West

Intersection Signal Delay: 7.0	Intersection LOS: A
Intersection Capacity Utilization 67.6%	ICU Level of Service C
Analysis Period (min) 15	
Splits and Phases: 2: Fairmont Ave & Wellington S	t W
Splits and Phases: 2: Fairmont Ave & Wellington S → Ø2 (R)	۲
Splits and Phases: 2: Fairmont Ave & Wellington S → Ø2 (R) 50 s	

	≯	-	-		1	1		
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR	Ø4	
Lane Configurations	202	<u>با الم</u>	î,		002	0.0.1	~.	
Traffic Volume (vph)	24	262	332	25	0	0		
Future Volume (vph)	24	262	332	25	0	0		
Satd. Flow (prot)	0	1735	1699	0	0	0		
Flt Permitted	0	0.954	1033	0	0	0		
Satd. Flow (perm)	0	1645	1699	0	0	0		
Satd. Flow (RTOR)	0	1045	1033	0	0	0		
Lane Group Flow (vph)	0	318	397	0	0	0		
Turn Type	Perm	NA	NA	0	0	U		
Protected Phases	Felli	2	6				4	
Protected Phases Permitted Phases	2	2	0				4	
Detector Phase	2	2	6					
Switch Phase	2	2	0					
	40.0	40.0	40.0				5.0	
Minimum Initial (s)	10.0	10.0	10.0				5.0 17.7	
Minimum Split (s)	15.5	15.5	25.5					
Total Split (s)	57.0	57.0	57.0				18.0	
Total Split (%)	76.0%	76.0%	76.0%				24%	
Yellow Time (s)	3.3	3.3	3.3				3.0	
All-Red Time (s)	2.2	2.2	2.2				2.7	
Lost Time Adjust (s)		0.0	0.0					
Total Lost Time (s)		5.5	5.5					
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	C-Max	C-Max	C-Max				None	
Act Effct Green (s)		61.1	61.1					
Actuated g/C Ratio		0.81	0.81					
v/c Ratio		0.24	0.29					
Control Delay		2.0	7.6					
Queue Delay		0.0	0.0					
Total Delay		2.0	7.6					
LOS		A	A					
Approach Delay		2.0	7.6					
Approach LOS		A	A					
Queue Length 50th (m)		5.2	26.9					
Queue Length 95th (m)		9.8	49.7					
Internal Link Dist (m)		146.4	98.8		48.7			
Turn Bay Length (m)								
Base Capacity (vph)		1340	1386					
Starvation Cap Reductn		0	0					
Spillback Cap Reductn		0	0					
Storage Cap Reductn		0	0					
Reduced v/c Ratio		0.24	0.29					
Intersection Summary								
Cycle Length: 75								
Actuated Cycle Length: 75								
Offset: 32 (43%), Reference	ed to phase	2:EBTL	and 6:WB	T, Start of	Green			
Natural Cycle: 45								
Control Type: Actuated-Coc	ordinated							

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Lanes, Volumes, Timings 3: Wellington St W/Somerset St W & Garland St

Existing PM Peak Hour 50 Bayswater Avenue, 1088 Somerset Street West

Maximum v/c Ratio:	0.29		
Intersection Signal E	Delay: 5.1	Intersection LOS: A	
Intersection Capacit	y Utilization 54.4%	ICU Level of Service A	
Analysis Period (mir) 15		
Splits and Phases:	3: Wellington St W/Somerset St W & 0	Garland St	
A			

Ø2 (R)	Ø4	
57 s	18 s	
←		
Ø6 (R)		
57 e		

HCM 2010 TWSC 4: City laneway & Somerset St W Existing PM Peak Hour 50 Bayswater Avenue, 1088 Somerset Street West

Intersection						
Int Delay, s/veh	0.4					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	₽,			- 4	۰Y	
Traffic Vol, veh/h	262	3	6	374	7	11
Future Vol, veh/h	262	3	6	374	7	11
Conflicting Peds, #/hr	0	118	118	0	4	2
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,				0	0	
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	291	3	7	416	8	12
Major/Minor Ma	ajor1		Major2		Minor1	
	-					440
Conflicting Flow All	0	0	412	0	845	413
Stage 1	-		-	-	411	-
Stage 2	-	-	-	-	434	-
Critical Hdwy		-	4.12		6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-			5.42	
Follow-up Hdwy	-	-	2.218		3.518	
Pot Cap-1 Maneuver			1147		333	639
Stage 1	-	-	-	-	669	-
Stage 2	-	-	-		653	-
Platoon blocked, %	-	-				
Mov Cap-1 Maneuver	-	-	1042		299	580
Mov Cap-2 Maneuver	-	-	-	-	299	-
Stage 1	-	-	-	-	607	-
Stage 2	-	-	-	-	645	-
Ŭ						
Approach	EB		WB		NB	
						_
HCM Control Delay, s	0		0.1		13.9	
HCM LOS					В	
Minor Lane/Major Mvmt	1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		425	-	-	1042	-
HCM Lane V/C Ratio		0.047	-		0.006	-
HCM Control Delay (s)	_	13.9	-		8.5	0
HCM Lane LOS		В	-		A	A
HCM 95th %tile Q(veh)	_	0.1	-		0	-
		5.1			Ū	

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Lanes, Volumes, Timings 5: Baywater Ave & Somerset St W Existing PM Peak Hour 50 Bayswater Avenue, 1088 Somerset Street West

	≯	-	$\mathbf{\hat{z}}$	4	+	*	1	1	1	1	Ļ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Lane Configurations		ę	1		ન	1		\$		٦	ĥ	
Traffic Volume (vph)	25	225	23	39	301	90	18	156	60	98	120	6
Future Volume (vph)	25	225	23	39	301	90	18	156	60	98	120	6
Satd. Flow (prot)	0	1721	1483	0	1714	1483	0	1601	0	1610	1618	
Flt Permitted		0.942			0.938			0.970		0.574		
Satd. Flow (perm)	0	1623	1248	0	1601	1320	0	1556	0	923	1618	
Satd. Flow (RTOR)			42			100		27			40	
Lane Group Flow (vph)	0	278	26	0	377	100	0	260	0	109	201	
Turn Type	Perm	NA	Perm	Perm	NA	Perm	Perm	NA		Perm	NA	
Protected Phases		2			6			8			4	
Permitted Phases	2		2	6		6	8			4		
Detector Phase	2	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	10.0	
Minimum Split (s)	30.5	30.5	30.5	30.5	30.5	30.5	28.9	28.9		28.9	28.9	
Total Split (s)	40.0	40.0	40.0	40.0	40.0	40.0	35.0	35.0		35.0	35.0	
Total Split (%)	53.3%	53.3%	53.3%	53.3%	53.3%	53.3%	46.7%	46.7%		46.7%	46.7%	
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		3.3	3.3	
All-Red Time (s)	2.2	2.2	2.2	2.2	2.2	2.2	2.6	2.6		2.6	2.6	
Lost Time Adjust (s)		0.0	0.0		0.0	0.0		0.0		0.0	0.0	
Total Lost Time (s)		5.5	5.5		5.5	5.5		5.9		5.9	5.9	
Lead/Lag												
Lead-Lag Optimize?												
Recall Mode	C-Max	C-Max	C-Max	C-Max	C-Max	C-Max	Max	Max		Max	Max	
Act Effct Green (s)		34.5	34.5		34.5	34.5		29.1		29.1	29.1	
Actuated g/C Ratio		0.46	0.46		0.46	0.46		0.39		0.39	0.39	
v/c Ratio		0.37	0.04		0.51	0.15		0.42		0.30	0.31	
Control Delay		12.0	4.4		17.4	3.4		17.5		18.9	14.2	
Queue Delay		0.0	0.0		0.0	0.0		0.0		0.0	0.0	
Total Delay		12.0	4.4		17.4	3.4		17.5		18.9	14.2	
LOS		В	А		В	А		В		В	В	
Approach Delay		11.4			14.5			17.5			15.9	
Approach LOS		В			В			В			В	
Queue Length 50th (m)		28.0	0.3		35.9	0.0		23.2		10.4	15.1	
Queue Length 95th (m)		48.1	4.2		59.0	7.3		41.8		22.2	29.7	
Internal Link Dist (m)		33.0			373.3			50.4			347.9	
Turn Bay Length (m)			33.0			40.0				58.0		
Base Capacity (vph)		746	596		736	661		620		358	652	
Starvation Cap Reductn		0	0		0	0		0		0	0	
Spillback Cap Reductn		0	0		0	0		0		0	0	
Storage Cap Reductn		0	0		0	0		0		0	0	
Reduced v/c Ratio		0.37	0.04		0.51	0.15		0.42		0.30	0.31	
Intersection Summary												
Cycle Length: 75												
Actuated Cycle Length: 75												
Offset: 63 (84%), Reference	d to phase	2:EBTL	and 6:WE	TL, Start	of Green							
Natural Cycle: 60												
Control Type: Actuated-Coo	rdinated											

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 Maximum v/c Ratio: 0.51
 Intersection Signal Delay: 14.7

 Intersection Capacity Utilization 95.7%
 ICU Level of Service F

 Analysis Period (min) 15
 Intersection LOS: B

Splits and Phases: 5: Baywater Ave & Somerset St W

Ø2 (R)	₩ø4
40 s	35 s
Ø6 (R)	≪¶ _{Ø8}
40 s	35 s

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HCM 2010 TWSC 6: Baywater Ave & 50 Bayswater Existing PM Peak Hour 50 Bayswater Avenue, 1088 Somerset Street West

-						
Intersection						
Int Delay, s/veh	0.2					
3.	•					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	۰Y			र्भ	4	
Traffic Vol, veh/h	2	3	6	239	178	3
Future Vol, veh/h	2	3	6	239	178	3
Conflicting Peds, #/hr	3	4	4	0	0	_ 33
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None		None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	3	7	266	198	3
14 · 0.0					1 . 0	
	Minor2		Major1		Aajor2	
Conflicting Flow All	516	237	234	0	-	0
Stage 1	233	-	-	-		-
Stage 2	283	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42		-	-		-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	519	802	1333	-	-	-
Stage 1	806	-	-	-	-	-
Stage 2	765	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	489	779	1299	-	-	-
Mov Cap-2 Maneuver	489		.200			
Stage 1	780	-		-	-	-
Stage 2	745				-	_
Stage 2	745			-		-
Approach	EB		NB		SB	
HCM Control Delay, s	10.8		0.2		0	
HCM LOS	В				-	
Minor Lane/Major Mvm	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1299	-	630	-	-
HCM Lane V/C Ratio		0.005	-	0.009	-	-
LION Original Delay (a)		7.8	0	10.8	-	-
HCM Control Delay (s)		1.0				
HCM Control Delay (s) HCM Lane LOS		7.0 A	A	В	-	-
			A	B 0	-	-

HCM 2010 AWSC 7: Baywater Ave & Laurel St Existing PM Peak Hour 50 Bayswater Avenue, 1088 Somerset Street West

Intersection												
Intersection Delay, s/veh	8.8											
Intersection LOS	А											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	15	1	3	14	6	20	13	206	3	5	159	10
Future Vol, veh/h	15	1	3	14	6	20	13	206	3	5	159	10
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	17	1	3	16	7	22	14	229	3	6	177	11
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			1			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay	8.2			8			9.1			8.6		
HCM LOS	А			А			Α			Α		
Lane		NBLn1	EBLn1	WBLn1	SBLn1							
		NBLn1 6%	EBLn1 79%	WBLn1 35%	SBLn1 3%							
Vol Left, % Vol Thru, %					3% 91%							
Vol Left, % Vol Thru, % Vol Right, %		6%	79%	35%	3%							
Vol Left, % Vol Thru, % Vol Right, %		6% 93%	79% 5%	35% 15%	3% 91%							
Vol Left, % Vol Thru, % Vol Right, % Sign Control		6% 93% 1% Stop 222	79% 5% 16% Stop 19	35% 15% 50%	3% 91% 6%							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol		6% 93% 1% Stop 222 13	79% 5% 16% Stop	35% 15% 50% Stop 40 14	3% 91% 6% Stop 174 5							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol		6% 93% 1% Stop 222 13 206	79% 5% 16% Stop 19 15 1	35% 15% 50% Stop 40	3% 91% 6% Stop 174							
Vol Left, % Vol Thru, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		6% 93% 1% Stop 222 13 206 3	79% 5% 16% Stop 19 15 1 3	35% 15% 50% Stop 40 14 6 20	3% 91% 6% Stop 174 5 159 10							
Vol Left, % Vol Thru, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		6% 93% 1% Stop 222 13 206	79% 5% 16% Stop 19 15 1 3 21	35% 15% 50% Stop 40 14 6 20 44	3% 91% 6% Stop 174 5 159							
Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate		6% 93% 1% Stop 222 13 206 3 247 1	79% 5% 16% Stop 19 15 1 3 21 1	35% 15% 50% Stop 40 14 6 20 44 1	3% 91% 6% Stop 174 5 159 10 193 1							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		6% 93% 1% Stop 222 13 206 3 247 1 0.295	79% 5% 16% Stop 19 15 1 3 21 1 0.029	35% 15% 50% Stop 40 14 6 20 44 1 0.058	3% 91% 6% Stop 174 5 159 10 193 1 0.232							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd)		6% 93% 1% Stop 222 13 206 3 247 1 0.295 4.309	79% 5% 16% Stop 19 15 1 3 21 3 21 0.029 5.022	35% 15% 50% Stop 40 14 6 20 44 4 1 0.058 4.696	3% 91% 6% Stop 174 5 159 10 193 1 0.232 4.317							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Degrature Headway (Hd)		6% 93% 1% Stop 222 13 206 3 247 1 0.295 4.309 Yes	79% 5% 16% Stop 19 15 1 3 21 0.029 5.022 Yes	35% 15% 50% Stop 40 14 6 20 44 1 0.058 4.696 Yes	3% 91% 6% Stop 174 5 159 10 193 1 0.232 4.317 Yes							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		6% 93% 1% Stop 222 13 206 3 247 1 0.295 4.309 Yes 839	79% 5% 16% Stop 19 15 1 3 21 0.029 5.022 Yes 713	35% 15% 50% Stop 40 14 6 20 44 1 0.058 4.696 Yes 763	3% 91% 6% Stop 174 5 159 10 193 1 0.232 4.317 Yes 833							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Degrete of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time		6% 93% 1% Stop 222 13 206 3 247 1 0.295 4.309 Yes 839 2.309	79% 5% 16% Stop 19 15 1 3 21 0.029 5.022 Yes 713 3.049	35% 15% 50% Stop 40 14 6 20 44 1 0.058 4.696 Yes 763 2.721	3% 91% 6% Stop 174 5 159 10 193 1 0.232 4.317 Yes 833 2.332							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Degrete of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time		6% 93% 1% Stop 222 13 206 3 247 1 0.295 4.309 Yes 839 2.309 0.294	79% 5% 16% Stop 19 15 1 3 21 1 0.029 5.022 Yes 713 3.049 0.029	35% 15% 50% Stop 40 14 6 20 44 1 0.058 4.696 Yes 763 2.721 0.058	3% 91% 6% Stop 174 5 159 10 193 1 0.232 4.317 Yes 833 2.332 0.232							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio HCM Lone V/C Ratio		6% 93% 1% Stop 222 13 206 3 247 1 0.295 4.309 Yes 839 2.309 0.294 9.1	79% 5% 16% Stop 19 15 1 3 21 1 0.029 5.029 Yes 713 3.049 0.029 8.2	35% 15% 50% 8top 40 14 6 6 20 44 1 0.058 4.696 Yes 763 2.721 0.058 8	3% 91% 6% Stop 174 5 159 10 193 1 0.232 4.317 Yes 833 2.332 0.232 8.6							
Vol Left, % Vol Icft, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		6% 93% 1% Stop 222 13 206 3 247 1 0.295 4.309 Yes 839 2.309 0.294	79% 5% 16% Stop 19 15 1 3 21 1 0.029 5.022 Yes 713 3.049 0.029	35% 15% 50% Stop 40 14 6 20 44 1 0.058 4.696 Yes 763 2.721 0.058	3% 91% 6% Stop 174 5 159 10 193 1 0.232 4.317 Yes 833 2.332 0.232							

02/07/2025



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
5/10/2018	2018	11:14	BAYSWATER AVE @ SOMERSET ST (0006486)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	07 - SMV other	01 - Dry	0	0	0	0
12/4/2018	2018	18:28	BAYSWATER AVE @ SOMERSET ST (0006486)	01 - Clear	07 - Dark	01 - Traffic signal	0	03 - P.D. only	03 - Rear end	01 - Dry	0	0	0	0
3/31/2019	2019	10:01	BAYSWATER AVE @ SOMERSET ST (0006486)	02 - Rain	01 - Daylight	01 - Traffic signal	0	02 - Non-fatal injury	03 - Rear end	02 - Wet	0	0	0	0
4/21/2019	2019	10:43	BAYSWATER AVE @ SOMERSET ST (0006486)	01 - Clear	01 - Daylight	01 - Traffic signal	0	02 - Non-fatal injury	02 - Angle	01 - Dry	0	0	0	0
5/24/2019	2019	17:59	BAYSWATER AVE @ SOMERSET ST (0006486)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	03 - Rear end	01 - Dry	0	0	0	0
11/20/2019	2019	12:39	BAYSWATER AVE @ SOMERSET ST (0006486)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	99 - Other	01 - Dry	0	0	0	0
1/2/2020	2020	13:40	BAYSWATER AVE @ SOMERSET ST (0006486)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	05 - Turning movement	06 - Ice	0	0	0	0
3/27/2020	2020	11:20	BAYSWATER AVE @ SOMERSET ST (0006486)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	02 - Angle	01 - Dry	0	0	0	0
6/15/2020	2020	17:13	BAYSWATER AVE @ SOMERSET ST (0006486)	01 - Clear	01 - Daylight	01 - Traffic signal	0	03 - P.D. only	02 - Angle	01 - Dry	0	0	0	0
1/8/2018	2018	14:15	SOMERSET ST W btwn BAYSWATER AVE & BREEZEHILL AVE N (3ZA31E)	03 - Snow	01 - Daylight	10 - No control	0	02 - Non-fatal injury	02 - Angle	04 - Slush	0	0	0	0
12/19/2018	2018	0:34	SOMERSET ST W btwn BAYSWATER AVE & BREEZEHILL AVE N (3ZA31E)	01 - Clear	07 - Dark	10 - No control	0	03 - P.D. only	06 - SMV unattended vehicle	01 - Dry	0	0	0	0
1/8/2019	2019	11:36	SOMERSET ST W btwn BAYSWATER AVE & BREEZEHILL AVE N (3ZA31E)	01 - Clear	01 - Daylight	10 - No control	0	03 - P.D. only	02 - Angle	04 - Slush	0	0	0	0
2/21/2020	2020	14:08	SOMERSET ST W btwn BAYSWATER AVE & BREEZEHILL AVE N (3ZA31E)	01 - Clear	01 - Daylight	10 - No control	0	02 - Non-fatal injury	02 - Angle	01 - Dry	0	0	0	0
2/15/2022	2022	17:20	SOMERSET ST W btwn BAYSWATER AVE & BREEZEHILL AVE N (3ZA31E)	01 - Clear	07 - Dark	10 - No control	0	03 - P.D. only	03 - Rear end	01 - Dry	0	0	0	0
1/6/2020	2020	12:08	WELLINGTON ST @ BAYSWATER AVE/BAYVIEW RD (0006489)	03 - Snow	01 - Daylight	02 - Stop sign	0	02 - Non-fatal injury	05 - Turning movement	04 - Slush	0	0	0	0
10/15/2020	2020	22:41	WELLINGTON ST @ BAYSWATER AVE/BAYVIEW RD (0006489)	01 - Clear	07 - Dark	02 - Stop sign	0	02 - Non-fatal injury	02 - Angle	02 - Wet	0	0	0	0
1/5/2022	2022	17:10	BAYSWATER AVE btwn SOMERSET ST W & WELLINGTON ST W (3ZA31D)	01 - Clear	05 - Dusk	10 - No control	0	03 - P.D. only	99 - Other	01 - Dry	0	0	0	0
3/25/2021	2021	20:12	SOMERSET ST @ SPADINA AVE (0006484)	01 - Clear	07 - Dark	02 - Stop sign	0	02 - Non-fatal injury	05 - Turning movement	01 - Dry	0	0	1	0
7/31/2019	2019	9:52	SOMERSET ST W btwn BAYSWATER AVE & SPADINA AVE (3ZA319)	01 - Clear	01 - Daylight	10 - No control	0	03 - P.D. only	02 - Angle	01 - Dry	0	0	0	0
1/24/2020	2020	16:15	SOMERSET ST W btwn BAYSWATER AVE & SPADINA AVE (3ZA319)	03 - Snow	01 - Daylight	10 - No control	0	03 - P.D. only	06 - SMV unattended vehicle	04 - Slush	0	0	0	0
2/9/2018	2018	16:27	BAYSWATER AVE btwn LAUREL ST & SOMERSET ST W (3ZAAIZ)	03 - Snow	01 - Daylight	10 - No control	0	03 - P.D. only	99 - Other	05 - Packed snow	0	0	0	0
10/21/2019	2019	Unknown	BAYSWATER AVE btwn LAUREL ST & SOMERSET ST W (3ZAAIZ)	01 - Clear	00 - Unknown	10 - No control	0	03 - P.D. only	06 - SMV unattended vehicle	01 - Dry	0	0	0	0
5/10/2020	2020	Unknown	BAYSWATER AVE btwn LAUREL ST & SOMERSET ST W (3ZAAIZ)	01 - Clear	00 - Unknown	10 - No control	0	03 - P.D. only	06 - SMV unattended vehicle	01 - Dry	0	0	0	0

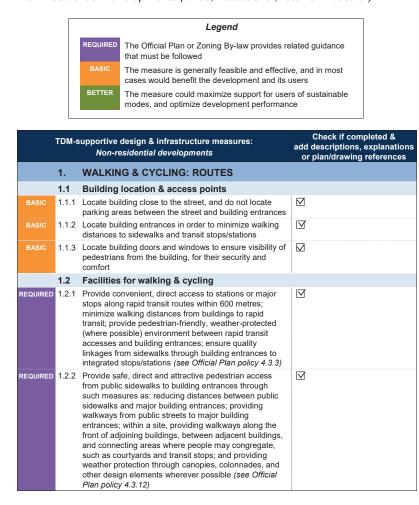


TDM Checklist



TDM-Supportive Development Design and Infrastructure Checklist City of Ottawa Version 1.0 (30 June 2017) City of Ottawa

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



TDM-Supportive Development Design and Infrastructure Checklist Version 1.0 (30 June 2017)

	TDM-s	supportive design & infrastructure measures: Non-residential developments	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 Official Plan policy 4.3.10)	
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 Official Plan policy 4.3.10)	
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 Official Plan policy 4.3.11)	
BASIC	1.2.6	Provide safe, direct and attractive walking routes from building entrances to nearby transit stops	
BASIC	1.2.7	Ensure that walking routes to transit stops are secure, visible, lighted, shaded and wind-protected wherever possible	
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	
	1.3	Amenities for walking & cycling	
BASIC	1.3.1	Provide lighting, landscaping and benches along walking and cycling routes between building entrances and streets, sidewalks and trails	
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)	

 TDM-Supportive Development Design and Infrastructure Checklist
 City of Ottawa

 Version 1.0 (30 June 2017)
 City of Ottawa

	TDM-s	upportive design & infrastructure measures: Non-residential developments	Check if completed & add descriptions, explanations or plan/drawing references
	2.	WALKING & CYCLING: END-OF-TRIP FACILI	TIES
	2.1	Bicycle parking	
REQUIRED	2.1.1	Provide bicycle parking in highly visible and lighted areas, sheltered from the weather wherever possible (see Official Plan policy 4.3.6)	\square
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 Zoning By-law Section 111)	
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 Zoning By-law Section 111)	
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	
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	
	2.2	Secure bicycle parking	
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 Zoning By-law Section 111)	
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)	
	2.3	Shower & change facilities	
BASIC	2.3.1	Provide shower and change facilities for the use of active commuters	
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	
	2.4	Bicycle repair station	
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)	

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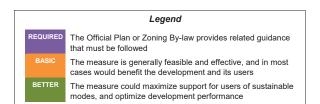
	TDM-s	upportive design & infrastructure measures: Non-residential developments	Check if completed & add descriptions, explanations or plan/drawing references
	3.	TRANSIT	
	3.1	Customer amenities	
BASIC	3.1.1	Provide shelters, lighting and benches at any on-site transit stops	
BASIC	3.1.2	Where the site 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	
BETTER	3.1.3	Provide a secure and comfortable interior waiting area by integrating any on-site transit stops into the building	
	4.	RIDESHARING	
	4.1	Pick-up & drop-off facilities	
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	
	4.2	Carpool parking	
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	
BETTER	4.2.2	At large developments, provide spaces for carpools in a separate, access-controlled parking area to simplify enforcement	
	5.	CARSHARING & BIKESHARING	
	5.1	Carshare parking spaces	
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>)	
	5.2	Bikeshare station location	
BETTER	5.2.1	Provide a designated bikeshare station area near a major building entrance, preferably lighted and sheltered with a direct walkway connection	

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	TDM-s	supportive design & infrastructure measures: Non-residential developments	Check if completed & add descriptions, explanations or plan/drawing references
	6.	PARKING	
	6.1	Number of parking spaces	
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	
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	
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 Zoning By-law Section 104)	
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 Zoning By-law Section 111)	
	6.2	Separate long-term & short-term parking areas	
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)	
	7.	OTHER	
	7.1	On-site amenities to minimize off-site trips	
BETTER	7.1.1	Provide on-site amenities to minimize mid-day or mid-commute errands	

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



	TDM-s	upportive design & infrastructure measures: Residential developments	Check if completed & add descriptions, explanations or plan/drawing references
	1.	WALKING & CYCLING: ROUTES	
	1.1	Building location & access points	
BASIC	1.1.1	Locate building close to the street, and do not locate parking areas between the street and building entrances	
BASIC	1.1.2	Locate building entrances in order to minimize walking distances to sidewalks and transit stops/stations	
BASIC	1.1.3	Locate building doors and windows to ensure visibility of pedestrians from the building, for their security and comfort	
	1.2	Facilities for walking & cycling	
EQUIRED	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 Official Plan policy 4.3.3)	
EQUIRED	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 Official Plan policy 4.3.12)	

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Check if completed & TDM-supportive design & infrastructure measures: add descriptions, explanations Residential developments or plan/drawing references **REQUIRED** 1.2.3 Provide sidewalks of smooth, well-drained walking \checkmark surfaces of contrasting materials or treatments to differentiate pedestrian areas from vehicle areas, and provide marked pedestrian crosswalks at intersection sidewalks (see Official Plan policy 4.3.10) 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 Official Plan policy 4.3.10) 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 onroad 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 Official Plan policy 4.3.11) 1.2.6 Provide safe, direct and attractive walking routes from building entrances to nearby transit stops 1.2.7 Ensure that walking routes to transit stops are secure, visible, lighted, shaded and wind-protected wherever possible 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 1.3 Amenities for walking & cycling BASIC 1.3.1 Provide lighting, landscaping and benches along walking and cycling routes between building entrances and streets, sidewalks and trails 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)

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	TDM-s	upportive design & infrastructure measures: Residential developments	Check if completed & add descriptions, explanations or plan/drawing references
	2.	WALKING & CYCLING: END-OF-TRIP FACILI	TIES
	2.1	Bicycle parking	
EQUIRED	2.1.1	Provide bicycle parking in highly visible and lighted areas, sheltered from the weather wherever possible (see Official Plan policy 4.3.6)	
EQUIRED	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 Zoning By-law Section 111)	
EQUIRED	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 Zoning By-law Section 111)	
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	
	2.2	Secure bicycle parking	
EQUIRED	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 Zoning By-law Section 111)	
BETTER	2.2.2	Provide secure bicycle parking spaces equivalent to at least the number of units at condominiums or multi-family residential developments	
	2.3	Bicycle repair station	
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)	
	3.	TRANSIT	
	3.1	Customer amenities	
BASIC	3.1.1	Provide shelters, lighting and benches at any on-site transit stops	
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	
BETTER	3.1.3	Provide a secure and comfortable interior waiting area by integrating any on-site transit stops into the building	

TDM-Supportive Development Design and Infrastructure Checklist Version 1.0 (30 June 2017) City of Ottawa

	TDM-s	upportive design & infrastructure measures: Residential developments	Check if completed & add descriptions, explanations or plan/drawing references
	4.	RIDESHARING	
	4.1	Pick-up & drop-off facilities	
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	
	5.	CARSHARING & BIKESHARING	
	5.1	Carshare parking spaces	
BETTER	5.1.1	Provide up to three carshare parking spaces in an R3, R4 or R5 Zone for specified residential uses (see Zoning By-law Section 94)	
	5.2	Bikeshare station location	
BETTER	5.2.1	Provide a designated bikeshare station area near a major building entrance, preferably lighted and sheltered with a direct walkway connection	
	6.	PARKING	
	6.1	Number of parking spaces	
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	
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	
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 Zoning By-law Section 104)	
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 Zoning By-law Section 111)	
	6.2	Separate long-term & short-term parking areas	
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)	

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

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	TDM	measures: Non-residential developments	Check if proposed & add descriptions
	3.	TRANSIT	
	3.1	Transit information	
BASIC	3.1.1	Display relevant transit schedules and route maps at entrances	
BASIC	3.1.2	Provide online links to OC Transpo and STO information	
BETTER	3.1.3	Provide real-time arrival information display at entrances	
	3.2	Transit fare incentives	
		Commuter travel	
BETTER	3.2.1	Offer preloaded PRESTO cards to encourage commuters to use transit	
BETTER ★	3.2.2	Subsidize or reimburse monthly transit pass purchases by employees	
		Visitor travel	
BETTER	3.2.3	Arrange inclusion of same-day transit fare in price of tickets (e.g. for festivals, concerts, games)	
	3.3	Enhanced public transit service	
		Commuter travel	
BETTER	3.3.1	Contract with OC Transpo to provide enhanced transit services (e.g. for shift changes, weekends)	
		Visitor travel	
BETTER	3.3.2	Contract with OC Transpo to provide enhanced transit services (e.g. for festivals, concerts, games)	
	3.4	Private transit service	
		Commuter travel	
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)	
		Visitor travel	
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)	

TDM Measures Checklist

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

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Check if proposed & add descriptions

TDM Measures Checklist
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TDM Measures Checklist:

Residential Developments (multi-family, condominium or subdivision)

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

	7.1	Multimodal travel information			
	Commuter travel				
BASIC ★	7.1.1	Provide a multimodal travel option information package to new/relocating employees and students			
		Visitor travel			
BETTER ★	7.1.2	Include multimodal travel option information in invitations or advertising that attract visitors or customers (e.g. for festivals, concerts, games)			
	7.2	Personalized trip planning			
		Commuter travel			
BETTER ★	7.2.1	Offer personalized trip planning to new/relocating employees			
	7.3	Promotions			
		Commuter travel			
BETTER	7.3.1	Deliver promotions and incentives to maintain awareness, build understanding, and encourage trial of sustainable modes			
	8.	OTHER INCENTIVES & AMENITIES			
	8.1	Emergency ride home			
	8.1	Emergency ride home Commuter travel			
BETTER ★		0,0			
BETTER ★		Commuter travel Provide emergency ride home service to non-driving			
BETTER ★	8.1.1	Commuter travel Provide emergency ride home service to non-driving commuters			
	8.1.1 8.2	Commuter travel Provide emergency ride home service to non-driving commuters Alternative work arrangements			
	8.1.1 8.2 8.2.1	Commuter travel Provide emergency ride home service to non-driving commuters Alternative work arrangements Commuter travel			
BASIC *	8.1.1 8.2 8.2.1 8.2.2	Commuter travel Provide emergency ride home service to non-driving commuters Alternative work arrangements Commuter travel Encourage flexible work hours			
BASIC ★ BETTER	8.1.1 8.2 8.2.1 8.2.2	Commuter travel Provide emergency ride home service to non-driving commuters Alternative work arrangements Commuter travel Encourage flexible work hours Encourage compressed workweeks			
BASIC ★ BETTER	 8.1.1 8.2 8.2.2 8.2.3 	Commuter travel Provide emergency ride home service to non-driving commuters Alternative work arrangements Commuter travel Encourage flexible work hours Encourage compressed workweeks Encourage telework			
BASIC ★ BETTER BETTER ★	8.1.1 8.2 8.2.1 8.2.2 8.2.3 8.2.3 8.3	Commuter travel Provide emergency ride home service to non-driving commuters Alternative work arrangements Commuter travel Encourage flexible work hours Encourage compressed workweeks Encourage telework Local business travel options			
BASIC ★ BETTER BETTER ★	8.1.1 8.2 8.2.1 8.2.2 8.2.3 8.2.3 8.3	Commuter travel Provide emergency ride home service to non-driving commuters Alternative work arrangements Commuter travel Encourage flexible work hours Encourage compressed workweeks Encourage telework Local business travel options Commuter travel Provide local business travel options that minimize the			

8.4.1 Offer employees a taxable, mode-neutral commuting

8.5.1 Provide on-site amenities/services to minimize mid-day or mid-commute errands Commuter travel

allowance
8.5 On-site amenities
Commuter travel

BETTER

TDM measures: Non-residential developments

7. TDM MARKETING & COMMUNICATIONS

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City of Ottawa

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

TDM Measures Checklist

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том	measures: Residential developments	Check if proposed & add descriptions		
6. TDM MARKETING & COMMUNICATIONS				
6.1	Multimodal travel information			
BASIC * 6.1.1	Provide a multimodal travel option information package to new residents			
6.2	Personalized trip planning			
BETTER ★ 6.2.1	Offer personalized trip planning to new residents			



MMLOS Analysis



Multi-Modal Level of Service - Segments Form

Consultant Scenario Comments	Existing/Future		Project Date	2023-020 2/25/2025		
SEGMENTS			Somerset Street West Existing	Somerset Street West Future	Bayswater Avenue Existing	Bayswater Avenue Future
	Sidewalk Width Boulevard Width		≥2m <0.5	≥ 2 m > 2 m	1.8 m < 0.5 m	1.8 m > 2 m
rian	Avg Daily Curb Lane Traffic Volume Operating Speed On-Street Parking		≤ 3000 > 50 to 60 km/h yes	≤ 3000 > 50 to 60 km/h yes	≤ 3000 > 50 to 60 km/h no	≤ 3000 > 50 to 60 km/h no
Pedestrian	Exposure to Traffic PLoS Effective Sidewalk Width Pedestrian Volume	-	C	A	C	A
	Crowding PLoS			-	•	
	Level of Service		-	-		-
	Type of Cycling Facility		Mixed Traffic	Physically Separated	Mixed Traffic	Curbside Bike Lane
	Number of Travel Lanes		2-3 lanes total		2-3 lanes total	2 ea. dir. (no median)
	Operating Speed # of Lanes & Operating Speed LoS		≥ 50 to 60 km/h	-	≥ 50 to 60 km/h E	≤ 50 km/h B
e	Bike Lane (+ Parking Lane) Width					
Bicycle	Bike Lane Width LoS Bike Lane Blockages	Α	-	-	•	-
_	Blockage LoS Median Refuge Width (no median = < 1.8 m)		-	-	•	-
	No. of Lanes at Unsignalized Crossing Sidestreet Operating Speed					
	Unsignalized Crossing - Lowest LoS		-	A	-	
	Level of Service		-	A	-	-
sit	Facility Type		Mixed Traffic	Mixed Traffic		
Transit	Friction or Ratio Transit:Posted Speed	D	Vt/Vp ≥ 0.8	Vt/Vp ≥ 0.8		
-	Level of Service		D	D	-	-
÷	Truck Lane Width Travel Lanes per Direction		> 3.7 m	≤ 3.5 m 1		
Truck	Level of Service	C		С	-	-