

Diamond Developments Inc. & Maria and Mario Polla

TRAFFIC OPERATION ASSESSMENT

900 & 904 Mississauga Heights Drive, City of Mississauga

Proposed Residential Development

Traffic Operation Assessment
Proposed Residential Development
900 & 904 Mississauga Heights Drive,
City of Mississauga

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June 2, 2023 Reference Number:

23382 - 900 and 904 Mississauga Heights Drive

Diamond Developments (900 Mississauga Heights) Inc. & Maria and Mario Polla (904 Mississauga Heights)
c/o Mark Condello, MCIP, RPP
Glen Schnarr & Associates Inc.
700 – 10 Kingsbridge Circle
Mississauga, ON
L5R 3K6

Dear Mr. Condello,

RE: Transportation Brief – Proposed Residential Development 900 and 904 Mississauga Heights Drive, City of Mississauga

LEA Consulting Ltd. is pleased to present the findings of our Transportation Brief for the proposed residential development located at 900 & 904 Mississauga Heights Drive in the City of Mississauga. This report concluded that the traffic associated with the proposed development will generate a minimal impact on the surrounding transportation network.

Should you have any comments with our assumptions or have any concerns, please contact the undersigned.

Yours truly,

LEA CONSULTING LTD.

Kenneth Chan, P.Eng., PTOE, PMP

Senior Vice President, Transportation Engineering and Planning

Project Coordinator

Encl.

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1 INTRODUCTION

LEA Consulting Ltd. (LEA) has been retained by Diamond Developments (900 Mississauga Heights) Inc. and Maria and Mario Polla to conduct a Traffic Operation Assessment (TOA) for the proposed residential development located at 900 & 904 Mississauga Heights Drive in the City of Mississauga (herein referred to as the subject site). The intention of this TOA is to support the Zoning By-law (ZBA) and Official Plan Amendment (OPA) applications, and to address City Staff comments regarding the proposed development.

This TOA will assess the existing and future traffic operations of the surrounding road network, forecast trip generation of proposed on-site land uses, and perform an intersection capacity analysis using Synchro 11.0 software. Since only 18 single family dwelling units are being proposed, it is anticipated that very few vehicle trips will be generated by the proposed development (fewer than 100 trips). Thus, in accordance with the City of Mississauga's *Transportation Impact Study Guidelines*, a detailed transportation Impact Study (TIS) is not required, and a TOA will suffice.

In addition to this TOA a Functional Design Review (FDR), and Sightline Analysis will be provided as appendices following the contents of this report.

The subject site is located at the southeast quadrant of Mississauga Heights Drive & The Queensway West intersection as shown in **Figure 1-1**.



Figure 1-1: Site Location

Source: Google Earth, Accessed March 2023



1.1 PROPOSED DEVELOPMENT

The subject site, which is currently occupied by two (2) single family dwelling units which are intended to remain, proposes to see a total of 18 single family dwelling units on-site (9 units on 900 Mississauga Heights Drive lands and the remaining 9 units on 904 Mississauga Heights Drive lands). A private roadway providing access to all units is proposed via one (1) unsignalized, full movements access off Mississauga Heights Drive as shown in **Figure 1-2**. Site statistics for the proposed development are detailed in **Table 1-1**.

Figure 1-2: Proposed Site Plan



Source: Glenn Schnarr & Associates Inc., April 28, 2023

Table 1-1: Proposed Site Statistics

Land Use	Res Units	
Proposed		
Residential (900 Mississauga Heights Drive)	9	
Residential (904 Mississauga Heights Drive)	9	
CANADA LINDIA L	AEDICA I ACIA I MI	D D



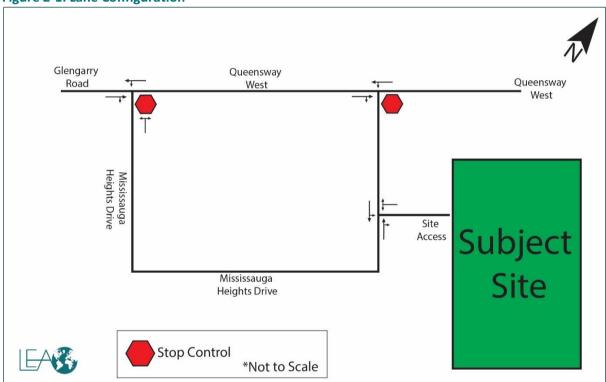
2 EXISTING TRANSPORTATION CONDITIONS

This section provides a brief overview of the existing transportation conditions within the study area, including the road, transit, cycling, and pedestrian networks. The study area was determined by assessing the size of the proposed development and its anticipated impact on the existing road network, and through consultation with City staff.

2.1 ROAD NETWORK

The following is a description and classification of the nearby roadways facilitating access to the subject site, under City jurisdiction. The existing intersection controls and lane configurations for the study area roads are shown in **Figure 2-1**.

Figure 2-1: Lane Configuration



Queensway West is an east-west minor collector road that operates with a two-lane cross-section (one lane per direction) and has a speed limit of 40 km/h. The roadway operates under the jurisdiction of the City from Old Carriage Road to Mavis Road, and under the jurisdiction of the Region from Mavis Road to the area of Dixie Road in the City of Mississauga.

Mississauga Heights Drive is an east-west local road that operates with a two-lane cross-section (one lane per direction) and has an assumed speed limit of 30km/h. The roadway extends from Queensway West (to the west) and Queensway West (to the east) in the City of Mississauga.



2.2 TRANSIT NETWORK

The subject site is located in an area of the City that has limited access to the existing transit network operated by Mississauga Transit (MiWay). The site is within a five (5) minute walk to MiWay bus service at the Huron Park Access near the intersection of Queensway West & Huron Park. The bus service at the Huron Park Access is able to connect passengers to TTC bus service at Sherway Gardens and other MiWay bus routes, as well as GO Transit train and bus service at Cooksville GO Station.

When entered into the TransitScoreTM tool that measures how well a location is serviced by the existing public transit network, the site received a score of 37/100 which indicates "some transit". Transit routes servicing the subject site are illustrated in **Figure 2-2**.

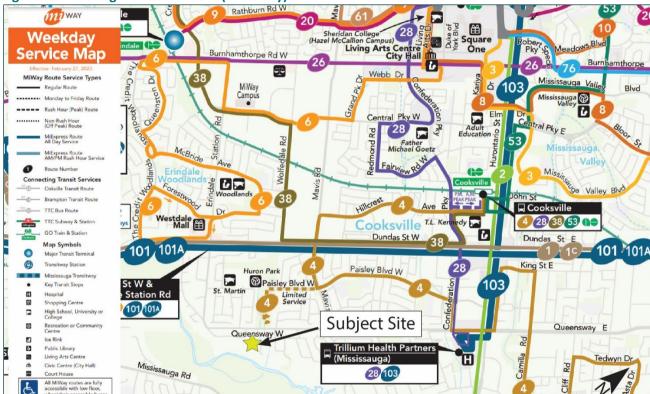


Figure 2-2: Existing Transit Network (Weekday)

Source: MiWay Weekday Service Map, 2023

Queen Elizabeth Wa

MiWay Bus Route 4 – Sherway Gardens is a bus route that generally operates in an east-west direction between Cooksville GO Station and Sherway Gardens. The route operates regular all-day service with limited service on certain routes.

Access Location: Regular bus service routes are accessible at the intersection of Mavis Road & Paisley Boulevard West a 19 min (1.5 km) walk from the subject site. Limited service is available at the Huron Park Access a 5-minute walk from the subject site.



2.3 ACTIVE TRANSPORTATION NETWORK

The following sections provide a description of the cycling and pedestrian networks servicing the study area.

2.3.1 Cycling Network

Access to the subject site can be accomplished using the existing, albeit minimal, cycling network. When entered into the BikeScore[™] tool, which determines how accessible and viable biking is for the location, the site received a 34/100 which indicates minimal cycling infrastructure is available. The cycling network servicing the site is shown in Figure 2-3.

Within walking distance to the site (a 3-minute walk) there is a multi-use trail along Queensway West that connects to bicycle lanes within Huron Park and signed bike lanes along Stavebank Road. These cycle connections provide access to the greater cycling network and public transit facilities such as the Cooksville GO Station as discussed in Section 2.2. The multi-use trail along Queensway extends from Glengary Road to the area of Dixie Road.

and Dr ingsberry Cres Rd Cedarglen Gate Sharon Cres 2 Glengarry Park Huron PIO Community Centre Hurondale Dr Vicki Lane Paisley Blvd W Culve Ave ۵ Rd vongate Dr Conquest amien Way Rosemary Dr Staveba Ca Fieldstone Rd Cul Fredonia Dr Queensway W ssauga Heights O Oneida Tes Subject Site

Figure 2-3: Cycling Network

Source: Mississauga Cycling Map, 2021



2.3.2 Pedestrian Network

The existing pedestrian network within the study area is limited. There are no pedestrian sidewalks along Mississauga Heights Drive meaning pedestrians will need to walk approximately 3-minutes north towards Queensway West where sidewalks are available on the roads north side. A multi-use trail is also available on southern side of Queensway West which can accommodate both pedestrians and cyclists. Crosswalk facilities are also limited within the study area. Pedestrians can safely navigate east and west at the intersection of Queensway West & Mississauga Heights Drive, as there is an available stop control and marked crosswalk. Similarly, to access the north sidewalks safely, pedestrians will need to walk to the nearest northern crosswalk at the Queensway West & Rosemary Drive intersection, which is approximately a one (1) minute walk from the Queensway West & Mississauga Heights Drive intersection.

When entered into the WalkScoreTM tool, which measures a location's pedestrian friendliness and proximity to local amenities, the subject site scored a 9/100, indicating mostly car dependent.

2.4 TRAFFIC DATA COLLECTION

Turning moving counts (TMCs) were used as the underlying source of traffic data for the intersection capacity analysis which includes peak hour factors (PHFs), conflicting pedestrian and cyclist volumes, and heavy vehicle percentages. LEA collected TMC data for the following intersections as summarized in **Table 2-1.** The full TMC data set is provided in **Appendix A. Figure 2-4** illustrates the existing traffic volumes.

Table 2-1: Existing Lane Configurations

Intersection	TMC Date	Source
Glengarry Road/Queensway West & Mississauga Heights Drive	Thursday, March 30, 2023	LEA Consulting Ltd.
Queensway West & Mississauga Heights Drive	Tuesday, March 28, 2023	

LEGEND Weekday A.M. Peak Hour Volumes Weekday P.M. Peak Hour Volumes (198) ← 366 (159)Glengarry **F** 3 (3) Queensway 2 (168) D (120)114 302 1 7 (6) 4 (2) (2) (2) Mississauga Heights Drive (3) Site Access 19 3 Subject Site Mississauga Heights Drive

Figure 2-4: Existing Traffic Volumes

3 FUTURE BACKGROUND CONDITIONS

The assessment of future background conditions considered a five (5) year horizon from existing year 2023 to 2028 and includes traffic from potential future developments, and transportation network improvements within the study area. Synchro input parameters from existing traffic scenarios were maintained with the corresponding future background traffic volumes.

3.1 TRANSPORTATION NETWORK IMPROVEMENTS

3.1.1 Mississauga Cycling Master Plan 2018

The Mississauga Cycling Master Plan (CMP 2018) outlines recommended improvements to the cycling network on the City's primary and secondary roads, and trail network. The following roadways within and close to the subject site were noted for improvements in the CMP 2018.

Primary Roads On-Street Improvements

 Mavis Road: Proposed cycle track/separated bike lane between Dundas Street West and Queensway West.

Secondary Roads On-Street Improvements

Glengarry Road: Proposed bike lane between Old Carriage Road and Dundas Street West.

Recommended Park Trail Upgrades

3.2 FUTURE BACKGROUND DEVELOPMENTS

No background developments were included in the analysis of future background conditions per the City of Mississauga's Development Applications Portal.

3.3 CORRIDOR GROWTH

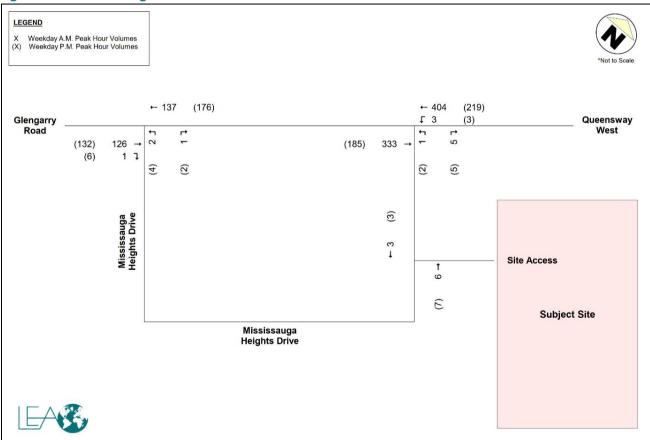
Corridor growth rates were requested from the City of Mississauga, and it was determined that since Queensway West is not a major collector or arterial roadway, growth rates could not be provided. As a result, a conservative annual growth rate of 2% was applied as shown in **Table 3-1**.

Table 3-1: Conservative Annual Corridor Growth Rate

Corridor	AM	PM
Queensway West EB	2.00%	2.00%
Queensway West WB	2.00%	2.00%

Given the parameters and corridor growth rates discussed **Figure 3-1** illustrates the future background traffic volumes.

Figure 3-1: Future Background Traffic Volumes



4 TRIP GENERATION

The proposed development will consist of 18 single-family dwelling units. Access to the site is proposed via one (1) unsignalized full movement access along Mississauga Heights Drive. The sections below discuss the calculation, distribution, and assignment of site-generated vehicle trips.

4.1 TRIP GENERATION

Trip generation was estimated using baseline trip rates from the ITE Trip Generation Manual 11th Edition. For the proposed residential uses, conversion to person trips used average rates for ITE Land use code (LUC) 220 Multifamily Housing (Low-Rise) in General Urban/Suburban, Not Close to Rail Transit Setting.

Table 4-1 details the proposed residential auto trip generation, with residential trip generation by mode provided in **Table 4-2**.

Table 4-1: Proposed Site Vehicle Trip Generation

Land Use	Description	Weekd	ay AM Pea	ak Hour	Weekday PM Peak Hour			
Land Use	Description	In	Out	Total	ln	Out	Total	
Residential	ITE Person Trip Rate (/unit)	0.08	0.30	0.38	0.34	0.20	0.54	
ITE LUC 220 – Multifamily	Total External Trips	2	5	7	6	4	10	
Housing (Low-Rise) – 18 units	External Auto Trips (70%)	1	3	4	4	3	7	
	Total New Site Auto Trips	1	3	4	4	3	7	

The proposed development is expected to generate a total of four (4) net two-way auto trips (one (1) inbound and three (3) outbound) during the weekday AM peak hour, and seven (7) new two-way auto trips (four (4) inbound and three (3) outbound) during the weekday PM peak hour.

Table 4-2: Subject Site Multi-Modal Trip Generation

Land Use	Description	Modal	Weeko	lay AM Pea	k Hour	Weeko	lay PM Pea	ık Hour
Lanu Ose	Description	Split	In	Out	Total	ln	Out	Total
	External Person Trips	100%	2	5	7	6	4	10
	Auto Driver Trips	70%	1	3	4	4	3	7
Proposed	Passenger Trip	9%	0	0	0	1	0	1
Residential	Transit Trips	14%	1	2	3	1	1	2
	Pedestrian trips	6%	0	0	0	0	0	0
	Cycling Trips	1%	0	0	0	0	0	0

The full ITE survey data results for the proposed residential trip generation is provided in **Appendix B**.

4.2 LOCAL MODE SPLIT

The local mode split was based on 2016 Transportation Tomorrow Survey (TTS) data filtered for traffic analysis zones 3652 and 3655 and includes residential trips with trip purpose including home-based work and home-based school. The modal split for site residential trips during weekday AM/PM peak periods is provided below.

Auto Driver Trips: 70%
Passenger Trips: 9%
Transit Trips: 14%
Pedestrian Trips: 6%
Cycling Trips: 1%



4.3 TRIP DISTRIBUTION AND ASSIGNMENT

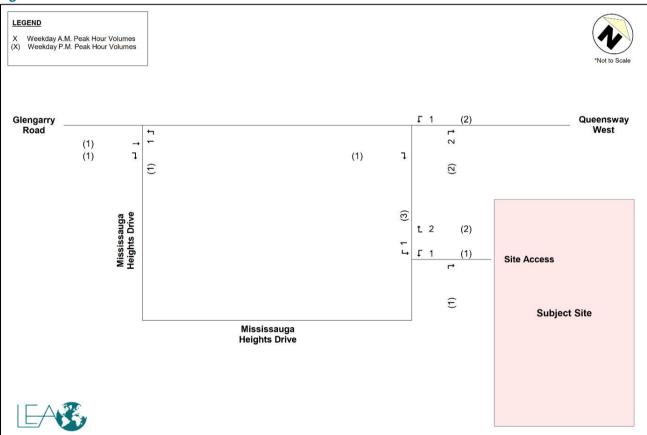
Trip distribution for the proposed development was based on existing traffic patterns observed. Inbound and outbound trips onto Mississauga Heights Drive from the 2016 TTS data was used to obtain the percentage of trips travelling east and west on Queensway West and Glengarry Road. Vehicle trip assignments were based on the local road network, turn restrictions, changes in future road network (assumed none), logical routing, and type of access. **Table 4-3** summarizes predicted site trip distribution by expected route.

Table 4-3: Residential Site Trip Distribution

		Resid	ential	
Expected Route	Weekd	lay AM	Weeko	lay PM
	ln	Out	ln	Out
Queensway West and NS Corridors	75%	67%	33%	54%
Glengarry Road and EW Corridors	25%	33%	67%	46%
Total	100%	100%	100%	100%

The proposed residential traffic volumes for the weekday AM and PM peak hours are illustrated in **Figure 4-1**.

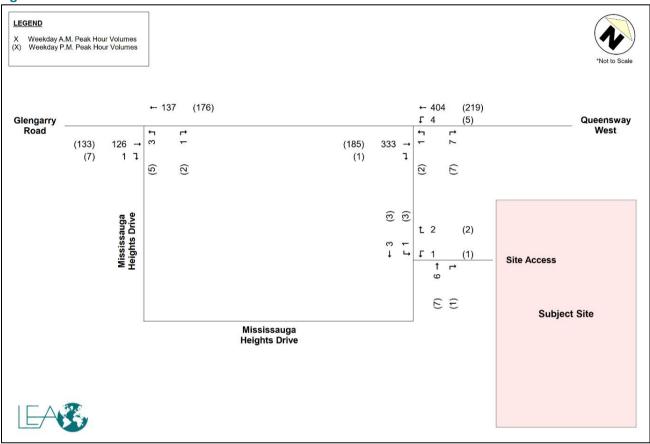
Figure 4-1: Site Traffic Volumes



5 FUTURE TOTAL TRANSPORTATION CONDITIONS

Future total traffic conditions include the addition of site trips to the future background volumes. Existing Synchro modeling conditions were maintained in the future total analysis. The future total traffic volumes during the weekday AM and PM peak hour are illustrated in **Figure 5-1**.

Figure 5-1: Future Total Traffic Volumes



6 INTERSECTION CAPACITY ANALYSIS

The intersection capacity analysis was undertaken using Synchro version 11.0, which is based on the Highway Capacity Manual 2000 methodology. Critical movements of interest for signalized intersections are those with a volume-to-capacity (V/C) ratio greater than 0.85 for overall intersections, and a (V/C) ratio greater than 1.00 for individual through turning movements. Critical movements of interest for unsignalized intersections are those with a level of service (LOS) of E or greater. Detailed capacity results are provided in **Appendix C**.

6.1 UNSIGNALIZED INTERSECTIONS

6.1.1 Glengarry Road/Queensway West & Mississauga Heights Drive

The intersection capacity analysis at Glengarry Road / Queensway West and Mississauga Heights Drive during the weekday AM and PM peak hour is summarized in **Table 6-1** for existing, future background and future total conditions.

Table 6-1: Glengarry Road/Queensway West & Mississauga Heights Drive

AM		Е	xisting Tra	affic			Future	Backgrou	nd Traf	fic		Fut	ure Total	Traffic	
Mvmt	Vol	V/C	Delay (s)	LOS	95th Queue	Vol	V/C	Delay (s)	LOS	95th Queue	Vol	V/C	Delay (s)	LOS	95th Queue
Overall	-	-	0	-	-	-	-	0	-	-	-	-	0		-
NBLR	3	0.01	10	В	0	3	0.01	11	В	0	4	0.01	11	В	0
EBT	114	0.00	0	-	0	126	0.00	0	1	0	126	0.00	0	-	0
EBR	1	0.00	0	-	0	1	0.00	0	-	0	1	0.00	0	-	0
WBL	0	0.00	0	Α	0	0	0.00	0	Α	0	0	0.00	0	Α	0
WBT	124	0.00	0	-	0	137	0.00	0		0	137	0.00	0	1	0
PM		E	xisting Tra	affic			Future	Backgrou	nd Traf	fic		Fut	ure Total	Traffic	
Mvmt	Vol	V/C	Delay (s)	LOS	95th Queue	Vol	V/C	Delay (s)	LOS	95th Queue	Vol	V/C	Delay (s)	LOS	95th Queue
Mvmt Overall	Vol -	V/C	Delay (s) 0	LOS		Vol -	V/C	Delay (s) 0	LOS		Vol -	V/C -	Delay (s) 0	LOS	
						Vol - 6	V/C - 0.01		LOS - B			V/C - 0.01			
Overall	-	-	0	-	Queue -	-	-	0	-	Queue -	•	-	0	-	Queue -
Overall NBLR	- 6	- 0.01	0	-	Queue - 0	- 6	- 0.01	0	- В	Queue - 0	- 7	- 0.01	0	- В	Queue - 0
Overall NBLR EBT	- 6 120	- 0.01 0.00	0 10 0	-	Queue - 0 0	- 6 132	- 0.01 0.00	0 10 0	- В	Queue - 0 0	- 7 133	- 0.01 0.00	0 10 0	- В	Queue - 0 0

As summarized in the table above, the study area intersection of Glengarry Road / Queensway West and Mississauga Heights Drive operates at acceptable levels of service during both AM and PM peak hours, with no critical movements identified in existing, future background or future total conditions.

6.1.2 Queensway West & Mississauga Heights Drive

The intersection capacity analysis at Queensway West and Mississauga Heights Drive during the weekday AM and PM peak hour is summarized in **Table 6-2** for existing, future background and future total conditions.

Table 6-2: Queensway West & Mississauga Heights Drive

AM			xisting Tra	affic			Future	Backgrou	nd Traf	fic		Fut	ure Total	Traffic	
Mvmt	Vol	V/C	Delay (s)	LOS	95th Queue	Vol	V/C	Delay (s)	LOS	95th Queue	Vol	V/C	Delay (s)	LOS	95th Queue
Overall	•	-	0	•	-	-	-	0	-	-	-	-	0	ı	-
NBLR	6	0.02	13	В	0	6	0.02	14	В	0	8	0.03	13	В	0
EBT	302	0.00	0	-	0	333	0.00	0		0	333	0.00	0	-	0
EBR	0	0.00	0	1	0	0	0.00	0		0	0	0.00	0	1	0
WBL	3	0.00	9	Α	0	3	0.01	9	Α	0	4	0.01	9	Α	0
WBT	366	0.00	0	Α	0	404	0.00	0	Α	0	404	0.00	0	Α	0
PM			xisting Tra	affic			Future	Backgrou	nd Traf	fic		Fut	ure Total	Traffic	
PM Mvmt	Vol	V/C	xisting Tra		95th Queue	Vol	Future V/C	Backgrou Delay (s)		fic 95th Queue	Vol	Fut V/C	ure Total Delay (s)		95th Queue
	Vol					Vol				95th	Vol				
Mvmt		V/C	Delay (s)	LOS		Vol - 7		Delay (s)		95th		V/C	Delay (s)	LOS	
Mvmt Overall	•	V/C	Delay (s)	LOS -	Queue -	-	V/C	Delay (s)	LOS -	95th Queue -	-	V/C -	Delay (s)	LOS -	Queue -
Mvmt Overall NBLR	- 7	V/C - 0.01	Delay (s) 0 10	LOS -	Queue - 0	- 7	V/C - 0.01	Delay (s) 0 10	LOS -	95th Queue - 0	- 9	V/C - 0.01	Delay (s) 0 10	LOS -	Queue - 0
Mvmt Overall NBLR EBT	- 7 168	V/C - 0.01 0.00	Delay (s) 0 10 0	LOS - A	- 0 0	- 7 185	V/C - 0.01 0.00	Delay (s) 0 10 0	LOS -	95th Queue - 0	- 9 185	V/C - 0.01 0.00	Delay (s) 0 10 0	LOS B -	- 0 0

As summarized in the table above, the study area intersection of Queensway West and Mississauga Heights Drive operates at acceptable levels of service during both AM and PM peak hours, with no critical movements identified in existing, future background or future total conditions.

6.1.3 Mississauga Heights & Site Access

The intersection capacity analysis at Glengarry Road / Queensway West and Mississauga Heights Drive during the weekday AM and PM peak hour is summarized in **Table 6-3** for existing, future background and future total conditions.

Table 6-3: Mississauga Heights & Site Access

AM			xisting Tra	_	113 01 0			Backgrou	nd Traf	fic	Future Total Traffic				
Mvmt	Vol	V/C	Delay (s)	LOS	95th Queue	Vol	V/C	Delay (s)	LOS	95th Queue	Vol	V/C	Delay (s)	LOS	95th Queue
Overall	•	-	0	1	-	-	-	0	-	-	-	-	3	-	-
NBT	6	0.00	0	1	0	6	0.00	0	1	0	6	0.00	0	-	0
NBR	0	0.00	0	1	0	0	0.00	0	1	0	0	0.00	0	-	0
WBLR	0	0.00	0	Α	0	0	0.00	0	Α	0	3	0.00	8	Α	0
SBL	0	0.00	0	Α	0	0	0.00	0	Α	0	1	0.00	7	Α	0
SBT	3	0.00	0	-	0	3	0.00	0	-	0	3	0.00	0	Α	0
PM			xisting Tra	affic			Future	Backgrou	nd Traf	fic		Fut	ure Total	Traffic	
PM Mvmt	Vol	V/C	xisting Tra		95th Queue	Vol	Future V/C	Backgrou Delay (s)		fic 95th Queue	Vol	Fut V/C	ure Total [*] Delay (s)		95th Queue
	Vol -					Vol -				95th	Vol -				
Mvmt		V/C	Delay (s)	LOS		Vol - 7		Delay (s)	LOS	95th		V/C	Delay (s)	LOS	
Mvmt Overall	-	V/C -	Delay (s)	LOS -	Queue -	-	V/C	Delay (s)	LOS -	95th Queue -	-	V/C -	Delay (s)	LOS -	Queue -
Mvmt Overall NBT	- 7	V/C - 0.00	Delay (s) 0 0	LOS - -	Queue - 0	- 7	V/C - 0.00	Delay (s) 0 0	LOS -	95th Queue - 0	- 7	V/C - 0.00	Delay (s) 3 0	LOS - -	Queue - 0
Mvmt Overall NBT NBR	- 7 0	V/C - 0.00 0.00	Delay (s) 0 0 0	LOS - -	- 0 0	- 7 0	V/C - 0.00 0.00	Delay (s) 0 0 0	LOS - -	95th Queue - 0 0	- 7 1	- 0.00 0.00	3 0 0	LOS - -	- 0 0

As summarized in the table above, the study area intersection of Mississauga Heights Drive and the Site Access operates at acceptable levels of service during both AM and PM peak hours, with no critical movements identified in existing, future background or future total conditions. Under existing and future background



conditions, only through volumes are projected along Mississauga Heights Drive, as the proposed development is not accounted for until future total conditions.

6.1.4 Conclusions

Under existing and future background weekday peak (AM/PM) hour conditions, all movements at the unsignalized intersections within the study area are expected to operate within capacity with acceptable LOS B or better.

Under future total weekday AM and PM peak hour conditions, movements at the unsignalized intersections, including the site access, are expected to operate well within capacity with v/c ratios below 1.00, minimal delays with acceptable LOS of B or better, and minimal queuing that is not expected to interfere with operations of nearby study intersections. No constraints were identified due to the addition of the proposed development's site trips.

7 PROPOSED PARKING REQUIREMENTS

The following section will review the vehicle parking standards based on the Zoning By-law requirements applicable to the subject site.

7.1 ZONING BY-LAW REQUIREMENTS

The subject site is governed by the City of Mississauga's Zoning By-law 0225-2007. **Table 7-1** summarizes the parking requirements for the proposed development.

7.1.1 City of Mississauga Zoning By-law 0225-2007

Table 7-1: City of Mississauga Zoning By-law 0225-2007 Parking Requirements

Land Use	Size	Parking Rates	Parking Spaces Required	Proposed Supply
Detached Dwelling	18 Units	2.0 spaces/unit	36	36 spaces (2.00 spaces/unit)
Visitors		0.25 spaces / unit	5	8 spaces
		Total	41 spaces	44 spaces

Based on the prevailing By-law a total of 41 parking spaces are required for the subject site, 36 of which are for residents, and five (5) are for visitors. The proposed development will provide at least 2 spaces per unit for residents, and eight (8) spaces for visitors, meeting and exceeding the By-law requirements.

8 FUNCTIONAL DESIGN REVIEW

The following sections will review and discuss the design and swept path analysis of the access and internal roadway, as well as a sightline analysis of the access location via Mississauga Heights Drive.

8.1 SIGHTLINE ANALYSIS

The sightline analyses were conducted for the proposed residential development for the Mississauga Heights Drive and Proposed Site Access intersection, to ensure that vehicles can make all their respective turns safely. Typically, sightlines are considered for the three basic movements – left-turn, right-turn, and through the intersection. However, this sightline analysis is mainly focused towards left and right-turn movements to determine the clear sight line visibility and daylight triangle requirements. The sightline analysis considered Stopping Sight Distance (SSD) and Intersection Sight Distance (ISD). The measurements were based on the property survey and conducted using the methodology as per the Geometric Design Guide for Canadian Road TAC Manual.

Stopping Sight Distance (SSD)

The SSD is the distance a moving vehicle travels, reacts, and brings the vehicle to a complete stop to avoid a collision, from the moment the driver perceives of an obstacle on the road. The findings of the stopping sight distance (SSD) measurements are illustrated in **Appendix D**, **Drawing No. 005**. As shown in **Drawing No. 005**, the minimum SSD, as specified in the Geometric Design Guide for Canadian Roads by the Transportation Association of Canada (TAC), for a road with a design speed of 50 km/hr (posted speed limit of 40 km/hr) is 65-m. The available SSD for vehicles traveling southbound or eastbound along Mississauga Heights Drive is greater than 65 m which exceeds the minimum requirements. It should be noted that the minimum SSD specified in the TAC Guide conservatively assumes that the driver of the moving vehicle requires 3.0 seconds to perceive an obstacle and react accordingly. Therefore, an incoming southbound or eastbound vehicle along Mississauga Heights Drive will have more than sufficient distance to bring the vehicle to a complete stop and avoid a potential collision, should an obstacle be present as the incoming southbound or eastbound vehicle approaches the intersection of Mississauga Heights Drive and Propose Site Access (i.e. when they see a vehicle making a left or right turn from Proposed Site Access).

Intersection Sight Distance (ISD)

In addition to the SSD, LEA also conducted an Intersection Sight Distance (ISD) analysis for the Mississauga Heights Drive and Proposed Site Access intersection. **Appendix D, Drawing No. 006** shows the findings of the available ISD compared with the specified desirable ISD per TAC Guidelines. It should be noted that as per TAC guidelines, the vertex (decision point) of the departure sight triangle on the Proposed Site Access should be 4.4-m from the edge of Mississauga Heights Drive. Since there are no sidewalks currently present along Mississauga heights Drive fronting the site, it is our opinion vehicles will stop at the stop bar and clear the intersection before proceeding with left or right turns at Mississauga Heights Drive.



Based on the design speed noted above, TAC recommends a minimum ISD of 105-m for left-turning vehicles, and 95m for right-turning vehicles at Proposed Site Access. When looking westward, not only does the sight distance of 105 m meets the minimum desired ISD of 105 m but it also exceeds the minimum SSD of 65 m. However, when looking northwards, the minimum sight distance of 95m has not been met. It should be noted that this is due to the available distance between the site access location and the intersection of Queensway West and Mississauga Heights Drive. Since vehicles have clear visibility along the entire north-south portion of Mississauga Heights Drive, the available ISD of 71m provides sufficient sight distance. Hence, vehicles turning left or right at the proposed site access location will have sufficient and clear sightline, on the condition that the hatched area (as identified in the attached **Appendix D, Drawing No. 006**) is restricted to a maximum object height of 0.3 m - to ensure clear visibility.

8.2 LOADING / ACCESS REVIEW

The subject site is governed by the City of Mississauga's Zoning By-law 0225-2007. In accordance to the By-law, a loading space is not required for a development with less than 30 units. As such, curbside garbage pick-up will be utilized by the site. Swept path diagrams are provided in **Appendix D, Drawings No. 001 – 004.** The site access has been designed as per OPSD Standard 350.010, and is provided in **Appendix D, Drawing No. 004.**

9 TRANSPORTATION DEMAND MANAGEMENT (TDM) MEASURES

Transportation Demand Management (TDM) is a set of strategies that strive towards a more efficient transportation network by influencing travel behaviours. Effective TDM measures can reduce vehicle usage and encourage residents to engage in more sustainable methods of travel. There are various opportunities to incorporate TDM measures within the development to support alternative modes of transportation. The recommendations that will be discussed in the section should enhance non-single occupant auto vehicle trips for future residents of the subject development.

TDM strategies are critical in achieving a balanced multi-modal transportation system in the City of Mississauga and supporting goals towards sustainable development as identified by the City of Mississauga Climate Change Action Plan to achieve net zero greenhouse gas emissions by 2050. As the proposed development is expected to generate up to 50 additional trips per day, a full TDM Plan was not required per the City of Mississauga's TDM *Strategy and Implementation Plan* (2018). However, the following measures listed below should be considered for implementation:

Active Transportation Measures

Bicycle Parking can be implemented within the development to encourage cycling as an alternative to vehicular transportation.

Bicycle Repair Facilities can encourage residents to use the cycling networks in the vicinity of the subject site. Bicycle repair facilities include hand tools, tire gauges, and tire pumps.

On-site Pedestrian Infrastructure can provide pleasant and safe pedestrian experience through enhanced landscaping. To further improve the pedestrian realm and consider persons with mobility difficulties, the passageways should be well lit with enhanced landscaping and minimal barriers.

► Transit Measures

PRESTO is contactless smart card used on participating public transit systems within the Greater Toronto and Hamilton Area (GTHA) and Ottawa. To further incentivize unit purchasers to make more transit-based trips, it is recommended that pre-loaded PRESTO cards of \$20 in value be provided with the sale/rental of each unit. This will provide residents with the opportunity to sample transit services in the neighbourhood and an opportunity for them to experience the benefits of transit.is a parking, presto card, and information.

Transit Marketing is such as information packaging is an important tool to promote transit available to the subject site.

As the proposed development moves through the city's development process, the TDM plan will undergo further refinement.



10 SUMMARY

- The subject site, which is currently occupied by one (1) single family dwelling unit and a two (2) storey residential building will see the addition of 18 single family dwelling units (9 units on 900 Mississauga Heights lands and the remaining 9 units on 904 Mississauga Heights lands) accessed via one (1) unsignalized, full movements site access off Mississauga Heights Drive.
- The subject site is situated in an area of the City that is car dominant as indicated by all WalkScore[™] tools which earned the site score of 37/100 or less for all transit, bike, and pedestrian metrics. Although there are some transit and active transportation infrastructure access is limited. Although proposed improvements to the cycling network along Glengarry Road will raise the BikeScore[™] of the site cycling to/from the site will still be limited.
- ▶ The site is not expected to generate high trip generation volumes. At most 10 two-way trips are project for both AM/PM peak hours respectively. Vehicular trips will comprise of most of these trips with a 70% modal split.
- ► The analysis of study area's intersection capacity reveals existing and future conditions are operating within capacity.
- The proposed parking supply will meet and exceed Zoning By-law 0225-2007 requirements with a total supply of 44 parking spaces (36 for residents and eight (8) for visitors).
- ► The sightline analysis reveals that clear sightlines are provided for all directions at the site access, on the condition that the hatched area in **Appendix D**, **Drawing No. 006** is restricted to a maximum object height of 0.3m, to ensure clear visibility.
- ▶ The site access has been designed as per OPSD Standard 350.010, and the swept paths for all vehicles expected to use the site (i.e. passenger vehicles, garbage truck and fire route) can maneuver through the site.



APPENDIX A

Turning Movement Counts

625 Cochrane Drive, 5th Floor Markham, ON L3R 9R9

Project No.: 23382 File Name: Mississauga Heights Dr & Glen Garry Rd - AM

Intersection: M. Heights Dr & Glengarry Site Code : 00023382 Weather: Clear Start Date : 2022-03-30

Surveyor(s): JC Page No : 1

Groups Printed- Cars/lights - Trucks - Buses

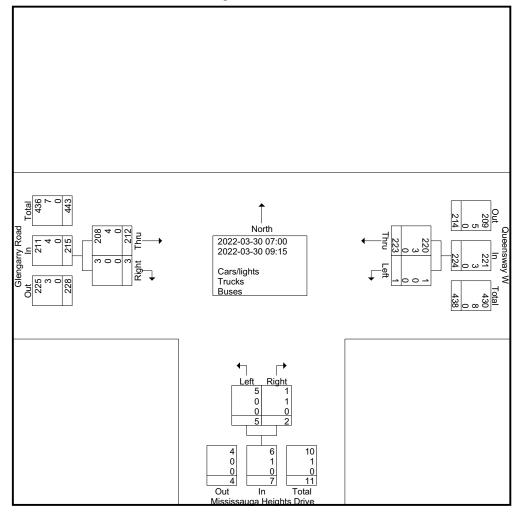
					Group	<u>3 1 11111CC</u>	Cars/11,	Siits IIuci	KS Dust				_		
	Queensway W				Mississauga Heights Drive					Glengar	ry Road				
		West	bound			North	bound			Eastl	ound				
Start Time	Left	Thru	Peds	App. Total	Left	Right	Peds	App. Total	Thru	Right	Peds	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00	0	9	[0]	9	0	0	[3]	0	9	0	[0]	9	3	18	21
07:15	0	9	[0]	9	1	0	[0]	1	9	0	[0]	9	0	19	19
07:30	0	11	[0]	11	0	1	[0]	1	13	0	[0]	13	0	25	25
07:45	1	17	[0]	18	1	0	[3]	1	25	0	[0]	25	3	44	47
Total	1	46	[0]	47	2	1	[6]	3	56	0	[0]	56	6	106	112
					1										
08:00	0	27	[1]	27	0	0	[2]	0	23	1	[0]	24	3	51	54
08:15	0	41	[0]	41	0	1	[1]	1	36	1	[0]	37	1	79	80
08:30	0	28	[0]	28	1	0	[2]	1	20	0	[0]	20	2	49	51
08:45	0	30	[0]	30	1	0	[1]	1	30	0	[0]	30	1	61	62
Total	0	126	[1]	126	2	1	[6]	3	109	2	[0]	111	7	240	247
			503		۱ .						503	• •			
09:00	0	25	[0]	25	0	0	[2]	0	28	0	[0]	28	2	53	55
09:15	0	26	[0]	26	1	0	[2]	1	19	1	[0]	20	2	47	49
Grand Total	1	223	[1]	224	5	2	[16]	7	212	3	[0]	215	17	446	463
Apprch %	0.4	99.6			71.4	28.6			98.6	1.4					
Total %	0.2	50		50.2	1.1	0.4		1.6	47.5	0.7		48.2	3.7	96.3	
Cars/lights	1	220		222	5	1		22	208	3		211	0	0	455
% Cars/lights	100	98.7	100	98.7	100	50	100	95.7	98.1	100	0	98.1	0	0	98.3
Trucks	0	3		3	0	1		1	4	0		4	0	0	8
% Trucks	0	1.3	0	1.3	0	50	0	4.3	1.9	0	0	1.9	0	0	1.7
Buses	0	0		0	0	0		0	0	0		0	0	0	0
% Ruses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

625 Cochrane Drive, 5th Floor Markham, ON L3R 9R9

File Name: Mississauga Heights Dr & Glen Garry Rd - AM

Site Code : 00023382 Start Date : 2022-03-30

Page No : 2



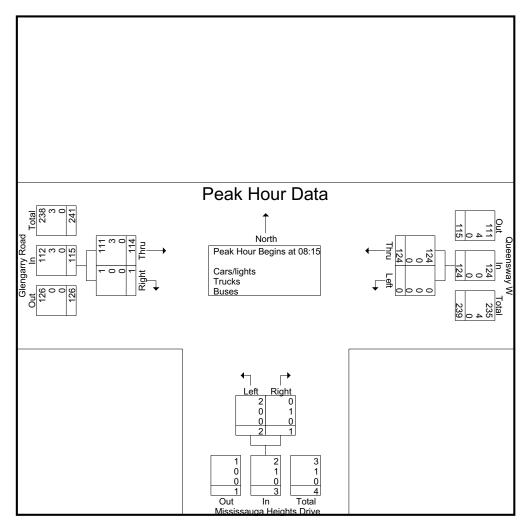
625 Cochrane Drive, 5th Floor Markham, ON L3R 9R9

File Name: Mississauga Heights Dr & Glen Garry Rd - AM

Site Code : 00023382 Start Date : 2022-03-30

Page No : 3

	,	ueensway V		Mississ	auga Heights		G					
		Westbound			Northbound							
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total		
Peak Hour Analysis From 07:00 to 09:15 - Peak 1 of 1												
Peak Hour for Entire Intersection Begins at 08:15												
08:15	0	41	41	0	1	1	36	1	37	79		
08:30	0	28	28	1	0	1	20	0	20	49		
08:45	0	30	30	1	0	1	30	0	30	61		
09:00	0	25	25	0	0	0	28	0	28	53_		
Total Volume	0	124	124	2	1	3	114	1	115	242		
% App. Total	0	100		66.7	33.3		99.1	0.9				
PHF	.000	.756	.756	.500	.250	.750	.792	.250	.777	.766		
Cars/lights	0	124	124	2	0	2	111	1	112	238		
% Cars/lights	0	100	100	100	0	66.7	97.4	100	97.4	98.3		
Trucks	0	0	0	0	1	1	3	0	3	4		
% Trucks	0	0	0	0	100	33.3	2.6	0	2.6	1.7		
Buses	0	0	0	0	0	0	0	0	0	0		
% Buses	0	0	0	0	0	0	0	0	0	0		



625 Cochrane Drive, 5th Floor Markham, ON L3R 9R9

625 Cochrane Drive, 5th Floor Markham, ON L3R 9R9

Project No.: 23382 File Name: Mississauga Heights Dr & Glen Garry Rd - PM

Intersection: M. Heights Dr & Glengarry Site Code : 00023382 Weather: Clear Start Date : 2022-03-30

Surveyor(s): JC Page No : 1

Groups Printed- Cars/lights - Trucks - Buses

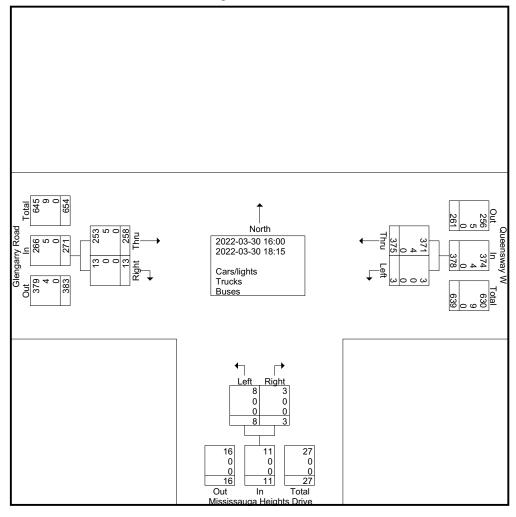
					Group	<u>3 1 11111CC</u>	Cars/11,	Sinto Truci	KS Dust				_		
	Queensway W				Mississauga Heights Drive					Glengar	ry Road				
		West	bound			North	bound			Eastl	ound				
Start Time	Left	Thru	Peds	App. Total	Left	Right	Peds	App. Total	Thru	Right	Peds	App. Total	Exclu. Total	Inclu. Total	Int. Total
16:00	0	44	[0]	44	1	0	[1]	1	28	1	[0]	29	1	74	75
16:15	0	42	[0]	42	2	1	[3]	3	24	1	[0]	25	3	70	73
16:30	0	36	[0]	36	0	1	[1]	1	28	2	[0]	30	1	67	68
16:45	0	37	[0]	37	1	0	[4]	1	40	2	[0]	42	4	80	84
Total	0	159	[0]	159	4	2	[9]	6	120	6	[0]	126	9	291	300
									1						
17:00	1	37	[0]	38	0	0	[2]	0	31	2	[0]	33	2	71	73
17:15	0	43	[0]	43	0	0	[3]	0	21	1	[0]	22	3	65	68
17:30	0	31	[0]	31	2	0	[2]	2	27	1	[0]	28	2	61	63
17:45	1_	37	[0]	38	1	0	[5]	1	19	1	[0]	20	5	59	64_
Total	2	148	[0]	150	3	0	[12]	3	98	5	[0]	103	12	256	268
10.00		20	507	20	1 .		5.53				503	20			
18:00	0	30	[0]	30	0	1	[5]	1	19	1	[0]	20	5	51	56
18:15	1	38	[0]	39	1	0	[1]	1	21	1	[0]	22	1	62	63
Grand Total	3	375	[0]	378	8	3	[27]	11	258	13	[0]	271	27	660	687
Apprch %	0.8	99.2			72.7	27.3			95.2	4.8					
Total %	0.5	56.8		57.3	1.2	0.5		1.7	39.1	2		41.1	3.9	96.1	
Cars/lights	3	371		374	8	3		38	253	13		266	0	0	678
% Cars/lights	100	98.9	0	98.9	100	100	100	100	98.1	100	0	98.2	0	0	98.7
Trucks	0	4		4	0	0		0	5	0		5	0	0	9
% Trucks	0	1.1	0	1.1	0	0	0	0	1.9	0	0	1.8	0	0	1.3
Buses	0	0		0	0	0		0	0	0		0	0	0	0
% Ruses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

625 Cochrane Drive, 5th Floor Markham, ON L3R 9R9

File Name: Mississauga Heights Dr & Glen Garry Rd - PM

Site Code : 00023382 Start Date : 2022-03-30

Page No : 2



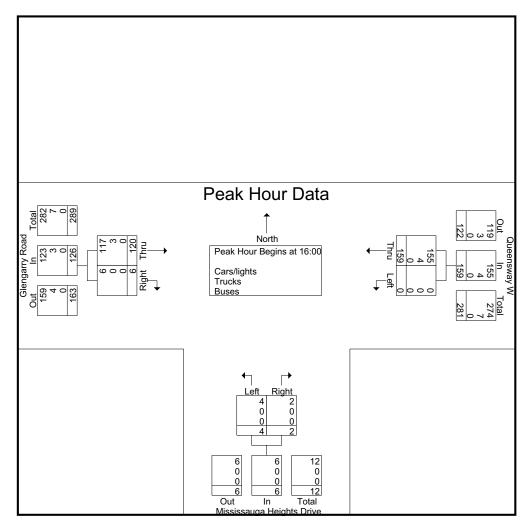
625 Cochrane Drive, 5th Floor Markham, ON L3R 9R9

File Name: Mississauga Heights Dr & Glen Garry Rd - PM

Site Code : 00023382 Start Date : 2022-03-30

Page No : 3

	Q	ueensway V			auga Heights		G					
		Westbound			Northbound							
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total		
Peak Hour Analysis From 16:00 to 18:15 - Peak 1 of 1												
Peak Hour for Entire Intersection Begins at 16:00												
16:00	0	44	44	1	0	1	28	1	29	74		
16:15	0	42	42	2	1	3	24	1	25	70		
16:30	0	36	36	0	1	1	28	2	30	67		
16:45	0	37	37	1	0	1	40	2	42	80		
Total Volume	0	159	159	4	2	6	120	6	126	291		
% App. Total	0	100		66.7	33.3		95.2	4.8				
PHF	.000	.903	.903	.500	.500	.500	.750	.750	.750	.909		
Cars/lights	0	155	155	4	2	6	117	6	123	284		
% Cars/lights	0	97.5	97.5	100	100	100	97.5	100	97.6	97.6		
Trucks	0	4	4	0	0	0	3	0	3	7		
% Trucks	0	2.5	2.5	0	0	0	2.5	0	2.4	2.4		
Buses	0	0	0	0	0	0	0	0	0	0		
% Buses	0	0	0	0	0	0	0	0	0	0		



625 Cochrane Drive, 5th Floor Markham, ON L3R 9R9

625 Cochrane Drive, 5th Floor Markham, ON L3R 9R9

Project No.: 23382 File Name: Mississauga Heights Dr & Queensway W - AM

Intersection: M Heights Dr & Queensway Wite Code : 00023382 Weather: Clear Start Date : 2023-03-28

Surveyor(s): ID Page No : 1

Groups Printed- Cars/lights - Trucks - Buses

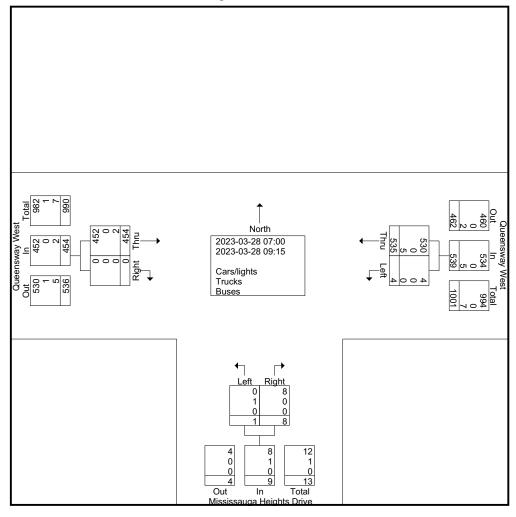
	(Queensway West Mississauga Heights Drive					s Drive		Queens	way We	est				
		West	bound		Northbound					East	bound				
Start Time	Left	Thru	Peds	App. Total	Left	Right	Peds	App. Total	Thru	Right	Peds	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00	0	14	[0]	14	0	0	[2]	0	16	0	[0]	16	2	30	32
07:15	0	11	[0]	11	0	0	[1]	0	17	0	[0]	17	1	28	29
07:30	0	23	[0]	23	0	1	[1]	1	20	0	[0]	20	1	44	45
07:45	1	55	[0]	56	0	1	[0]	1	30	0	[0]	30	0	87	87
Total	1	103	[0]	104	0	2	[4]	2	83	0	[0]	83	4	189	193
08:00	0	100	[0]	400	0	4	[0]	4	60	0	[0]	co	4	100	470
08:00	0	100 142	[0]	100 143	0	1	[2]	1	68 96	0	[2]	68 96	4 2	169 240	173 242
	1		[1]	1	-	1	[1]	1		0	[0]				
08:30	1	60	[0]	61	0	1	[4]	1	71	0	[0]	71	4	133	137
<u>08:45</u>	1_	64	[0]	65	1_	2	[4]	3	67	0	[0]	67	4	135	139
Total	3	366	[1]	369	1	5	[11]	6	302	0	[2]	302	14	677	691
09:00	0	49	[1]	49	0	0	[1]	0	45	0	[0]	45	2	94	96
09:15	0	17	[0]	17	0	1	[1]	1	24	0	[0]	24	1	42	43
Grand Total	4	535	[2]	539	1	8	[17]	9	454	0	[2]	454	21	1002	1023
Apprch %	0.7	99.3	[-]		11.1	88.9	[]	-	100	0	r_1				
Total %	0.4	53.4		53.8	0.1	0.8		0.9	45.3	0		45.3	2.1	97.9	
Cars/lights	4	530		535	0	8		25	452	0		452	0	0	1012
% Cars/lights	100	99.1	50	98.9	0	100	100	96.2	99.6	0	0	99.1	0	0	98.9
Trucks	0	0		1	1	0		1	0	0		2	0	0	4
% Trucks	0	0	50	0.2	100	0	0	3.8	0	0	100	0.4	0	0	0.4
Buses	0	5		5	0	0		0	2	0		2	0	0	7
% Buses	0	0.9	0	0.9	0	0	0	0	0.4	0	0	0.4	0	0	0.7

625 Cochrane Drive, 5th Floor Markham, ON L3R 9R9

File Name: Mississauga Heights Dr & Queensway W - AM

Site Code : 00023382 Start Date : 2023-03-28

Page No : 2



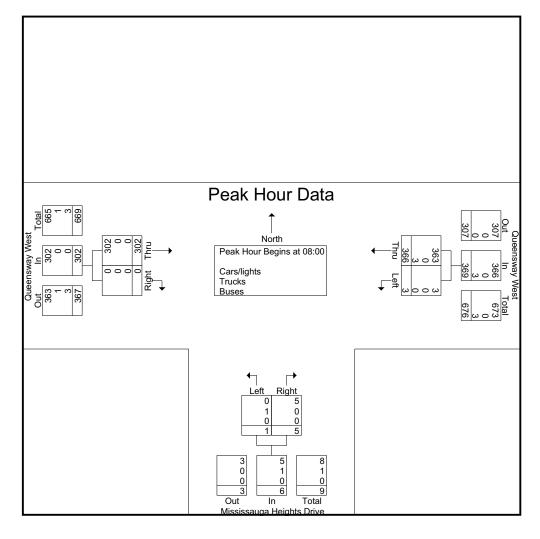
625 Cochrane Drive, 5th Floor Markham, ON L3R 9R9

File Name: Mississauga Heights Dr & Queensway W - AM

Site Code : 00023382 Start Date : 2023-03-28

Page No : 3

	Qı	ueensway V		Mississ	sauga Heigh		Qu	eensway V		
		Westbound			Northbound			Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr										
Peak Hour for Entire Ir	ntersection E	Begins at 08	:00							
08:00	0	100	100	0	1	1	68	0	68	169
08:15	1	142	143	0	1	1	96	0	96	240
08:30	1	60	61	0	1	1	71	0	71	133
08:45	1	64	65	1	2	3	67	0	67	135
Total Volume	3	366	369	1	5	6	302	0	302	677
% App. Total	0.8	99.2		16.7	83.3		100	0		
PHF	.750	.644	.645	.250	.625	.500	.786	.000	.786	.705
Cars/lights	3	363	366	0	5	5	302	0	302	673
% Cars/lights	100	99.2	99.2	0	100	83.3	100	0	100	99.4
Trucks	0	0	0	1	0	1	0	0	0	1
% Trucks	0	0	0	100	0	16.7	0	0	0	0.1
Buses	0	3	3	0	0	0	0	0	0	3
% Buses	0	8.0	8.0	0	0	0	0	0	0	0.4



625 Cochrane Drive, 5th Floor Markham, ON L3R 9R9

625 Cochrane Drive, 5th Floor Markham, ON L3R 9R9

Project No.: 23382 File Name: Mississauga Heights Dr & Queensway W - PM

Intersection: M Heights Dr & Queensway Wite Code : 00023382 Weather: Clear Start Date : 2023-03-28

Surveyor(s): ID Page No : 1

Groups Printed- Cars/lights - Trucks - Buses

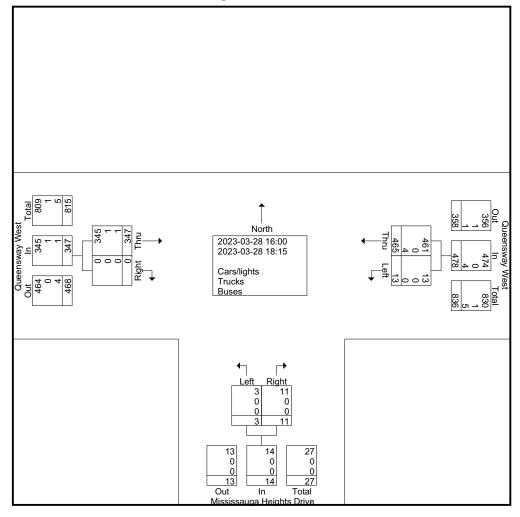
					Cioup	70 1 HHIC	u cuio	riigiito ii	GONO L	, 4505			_		
		Queens	way We	st	Miss	issauga	Heights	s Drive		Queens	way We	est			
		West	tbound			North	nbound			East	bound				
Start Time	Left	Thru	Peds	App. Total	Left	Right	Peds	App. Total	Thru	Right	Peds	App. Total	Exclu. Total	Inclu. Total	Int. Total
16:00	2	49	[1]	51	0	2	[3]	2	37	0	[0]	37	4	90	94
16:15	0	48	[1]	48	1	1	[6]	2	37	0	[0]	37	7	87	94
16:30	1	44	[0]	45	1	0	[4]	1	44	0	[0]	44	4	90	94
16:45	1	50	[2]	51	0	2	[6]	2	49	0	[0]	49	8	102	110
Total	4	191	[4]	195	2	5	[19]	7	167	0	[0]	167	23	369	392
17:00	1	56	[0]	57	0	2	[2]	2	38	0	[0]	38	2	97	99
17:15	0	51	[1]	51	0	1	[9]	1	28	0	[0]	28	10	80	90
17:30	3	48	[0]	51	0	1	[5]	1	28	0	[1]	28	6	80	86
17:45	2	39	[0]	41	0	1	[5]	1	26	0	[1]	26	6	68	74_
Total	6	194	[1]	200	0	5	[21]	5	120	0	[2]	120	24	325	349
1															
18:00	2	43	[0]	45	1	1	[3]	2	33	0	[0]	33	3	80	83
18:15	1	37	[0]	38	0	0	[2]	0	27	0	[0]	27	2	65	67
Grand Total	13	465	[5]	478	3	11	[45]	14	347	0	[2]	347	52	839	891
Apprch %	2.7	97.3			21.4	78.6			100	0					
Total %	1.5	55.4		57	0.4	1.3		1.7	41.4	0		41.4	5.8	94.2	
Cars/lights	13	461		475	3	11		59	345	0		345	0	0	879
% Cars/lights	100	99.1	20	98.3	100	100	100	100	99.4	0	0	98.9	0	0	98.7
Trucks	0	0		4	0	0		0	1	0		3	0	0	7
% Trucks	0	0	80	0.8	0	0	0	0	0.3	0	100	0.9	0	0	0.8
Buses	0	4		4	0	0		0	1	0		1	0	0	5
% Ruses	Ω	0.9	0	0.8	0	0	0	0	0.3	Ω	Ω	0.3	1 0	0	0.6

625 Cochrane Drive, 5th Floor Markham, ON L3R 9R9

File Name: Mississauga Heights Dr & Queensway W - PM

Site Code : 00023382 Start Date : 2023-03-28

Page No : 2



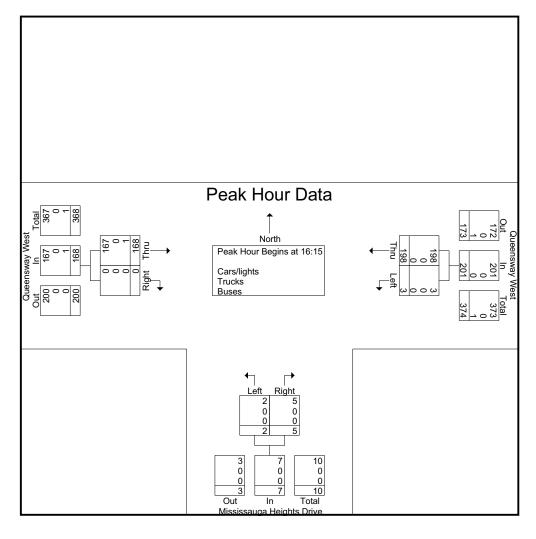
625 Cochrane Drive, 5th Floor Markham, ON L3R 9R9

File Name: Mississauga Heights Dr & Queensway W - PM

Site Code : 00023382 Start Date : 2023-03-28

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	Qı	ueensway V		Mississ	sauga Heigl		Qu	eensway W		
		Westbound			Northboun			Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 16:00 to	18:15 - Pe	ak 1 of 1							
Peak Hour for Entire Ir	ntersection E	Begins at 16	:15							
16:15	0	48	48	1	1	2	37	0	37	87
16:30	1	44	45	1	0	1	44	0	44	90
16:45	1	50	51	0	2	2	49	0	49	102
17:00	1	56	57	0	2	2	38	0	38	97
Total Volume	3	198	201	2	5	7	168	0	168	376
% App. Total	1.5	98.5		28.6	71.4		100	0		
PHF	.750	.884	.882	.500	.625	.875	.857	.000	.857	.922
Cars/lights	3	198	201	2	5	7	167	0	167	375
% Cars/lights	100	100	100	100	100	100	99.4	0	99.4	99.7
Trucks	0	0	0	0	0	0	0	0	0	0
% Trucks	0	0	0	0	0	0	0	0	0	0
Buses	0	0	0	0	0	0	1	0	1	1
% Buses	0	0	0	0	0	0	0.6	0	0.6	0.3



625 Cochrane Drive, 5th Floor Markham, ON L3R 9R9

APPENDIX B

Trip Generation

Multifamily Housing (Low-Rise)

Not Close to Rail Transit (220)

Person Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

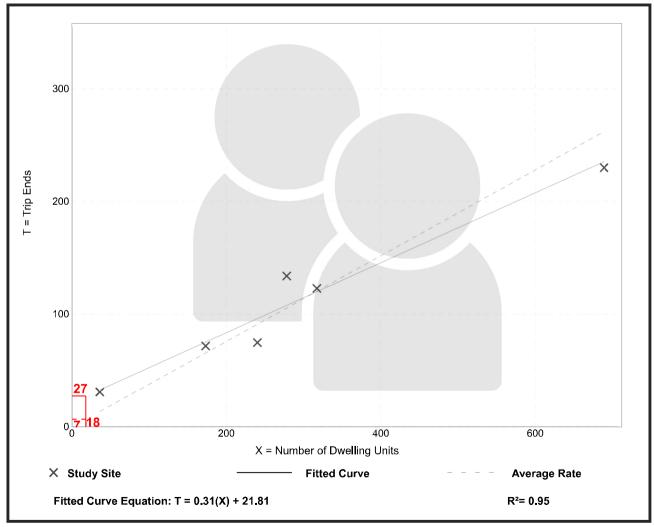
Number of Studies: 6
Avg. Num. of Dwelling Units: 289

Directional Distribution: 22% entering, 78% exiting

Person Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.38	0.31 - 0.86	0.10

Data Plot and Equation



Multifamily Housing (Low-Rise)

Not Close to Rail Transit (220)

Person Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

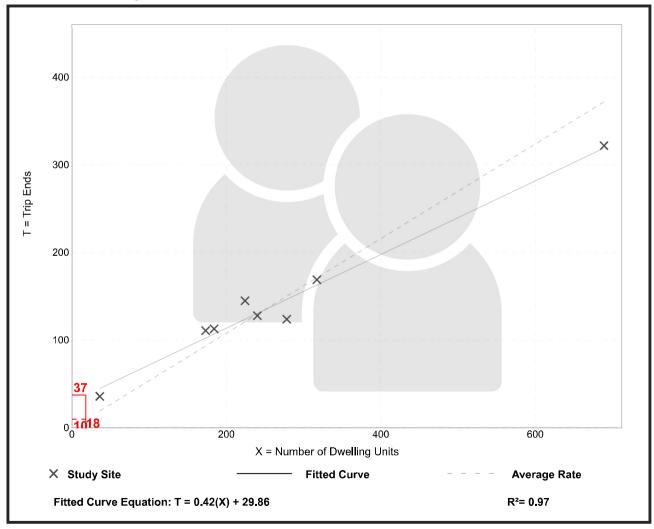
Number of Studies: 8
Avg. Num. of Dwelling Units: 268

Directional Distribution: 63% entering, 37% exiting

Person Trip Generation per Dwelling Unit

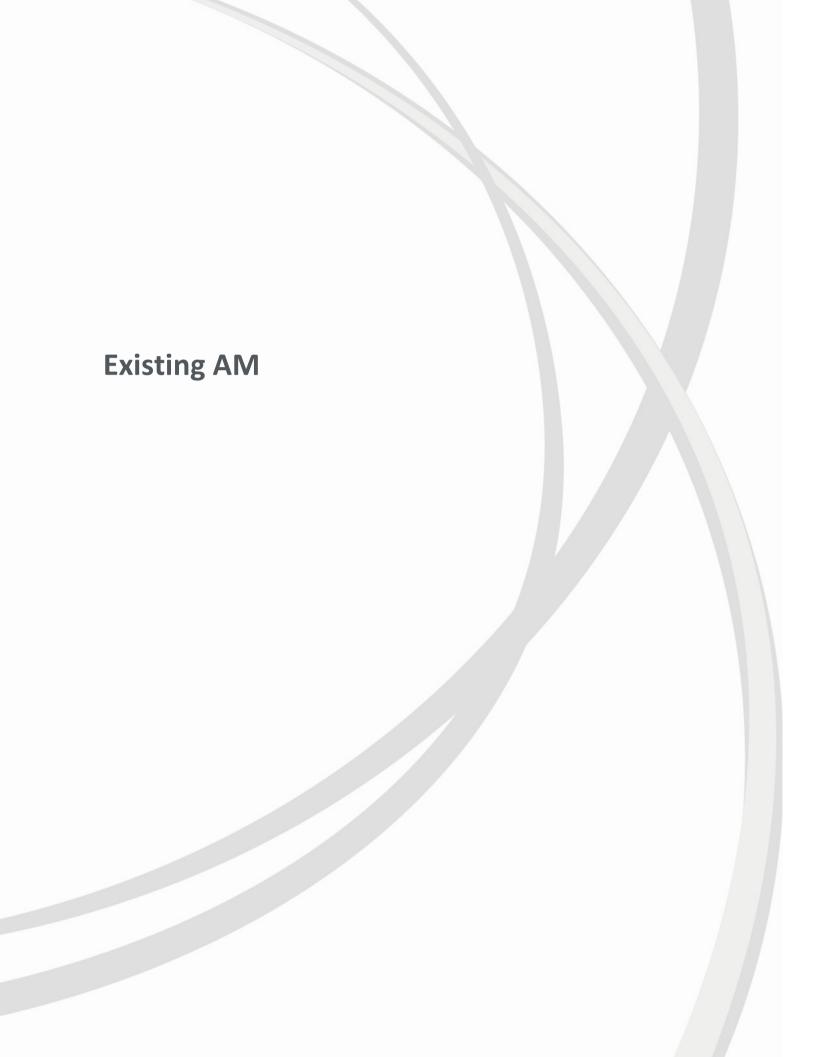
Average Rate	Range of Rates	Standard Deviation
0.54	0.45 - 1.00	0.10

Data Plot and Equation



APPENDIX C

Intersection Capacity Analysis



Int Delay, s/veh Movement Lane Configurations Traffic Vol, veh/h Future Vol, veh/h Conflicting Peds, #/hr Sign Control RT Channelized	0.1 EBT	EBR	WBL			
Lane Configurations Traffic Vol, veh/h Future Vol, veh/h Conflicting Peds, #/hr Sign Control	ĵ»	EBR	WRI			
Lane Configurations Traffic Vol, veh/h Future Vol, veh/h Conflicting Peds, #/hr Sign Control	ĵ»		VVDL	WBT	NBL	NBR
Traffic Vol, veh/h Future Vol, veh/h Conflicting Peds, #/hr Sign Control				4	¥	
Future Vol, veh/h Conflicting Peds, #/hr Sign Control	114	1	0	124	2	1
Conflicting Peds, #/hr Sign Control	114	1	0	124	2	1
Sign Control	0	6	6	0	0	0
	Free	Free	Free	Free	Stop	Stop
	-	None	-	None	-	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage	e, # 0	_	_	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	77	77	77	77	77	77
Heavy Vehicles, %	3	0	0	0	0	100
Mymt Flow	148	1	0	161	3	1
IVIVIIIL I IUW	140	1	U	101	3	
Major/Minor I	Major1	N	Major2	N	Minor1	
Conflicting Flow All	0	0	155	0	316	155
Stage 1	-	-	-	-	155	-
Stage 2	-	-	-	-	161	-
Critical Hdwy	-	-	4.1	-	6.4	7.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	4.2
Pot Cap-1 Maneuver	-	-	1438	-	681	687
Stage 1	-	-	-	-	878	-
Stage 2	-	-	-	-	873	-
Platoon blocked, %	_	_		_		
Mov Cap-1 Maneuver	_	_	1430	_	677	683
Mov Cap-2 Maneuver	-	_	-	_	677	-
Stage 1	_	_	_	_	873	_
Stage 2	_	_	_	_	873	_
Olage 2					010	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		10.3	
HCM LOS					В	
Minor Lane/Major Mvn	nt N	NBLn1	EBT	EBR	WBL	WBT
	it I					
Capacity (veh/h)		679	-	-	1430	-
HCM Cantrol Dalay (a)		0.006	-	-	-	-
HCM Control Delay (s)		10.3	-	-	0	-
HCM Lane LOS	\	В	-	-	A	-
HCM 95th %tile Q(veh)	0	-	-	0	-

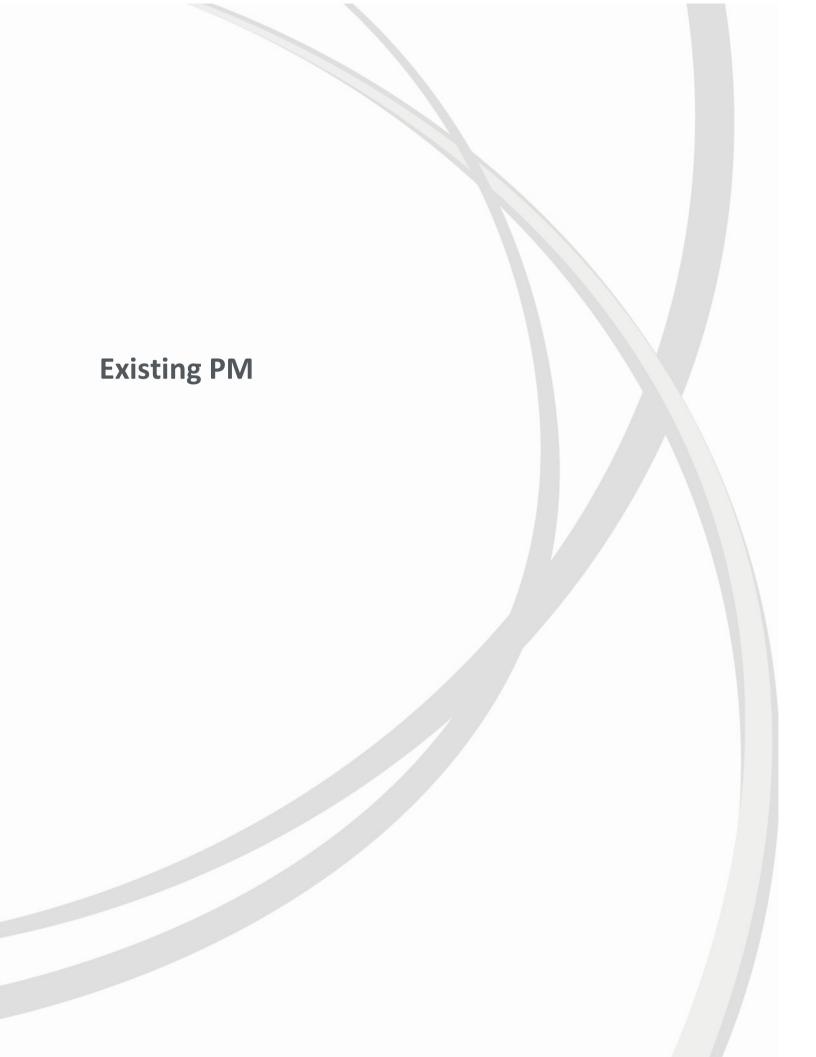
Synchro 11 Report Page 1 04-03-2023

Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ĵ.			4	¥	
Traffic Vol, veh/h	302	0	3	366	1	5
Future Vol, veh/h	302	0	3	366	1	5
Conflicting Peds, #/hr	0	11	11	0	2	1
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-	None	-	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage,	# 0	_	_	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	71	71	71	71	71	71
Heavy Vehicles, %	0	0	33	1	100	0
Mymt Flow	425	0	4	515	1	7
IVIVIIIL I IOW	720	U		010		1
Major/Minor M	1ajor1	N	Major2	N	Minor1	
Conflicting Flow All	0	0	436	0	961	437
Stage 1	-	-	-	-	436	-
Stage 2	-	-	-	-	525	-
Critical Hdwy	-	-	4.43	-	7.4	6.2
Critical Hdwy Stg 1	-	-	-	-	6.4	-
Critical Hdwy Stg 2	-	-	-	-	6.4	_
Follow-up Hdwy	-	-	2.497	-	4.4	3.3
Pot Cap-1 Maneuver	-	-	977	-	193	624
Stage 1	-	-	_	-	486	-
Stage 2	-	_	-	-	436	_
Platoon blocked, %	_	_		_		
Mov Cap-1 Maneuver	_	_	967	_	190	617
Mov Cap-2 Maneuver	_	_	-	_	190	-
Stage 1	_	_	_	_	481	_
Stage 2		_			433	_
Stage 2	_		_		400	_
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		13.2	
HCM LOS					В	
Minor Long/Major Muss		UDL ~4	EDT	EDD	WDI	MDT
Minor Lane/Major Mvmt		VBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		449	-	-	967	_
HCM Lane V/C Ratio		0.019	-	-	0.004	-
HCM Control Delay (s)		13.2	-	-	8.7	0
HCM Lane LOS		В	-	-	A	Α
HCM 95th %tile Q(veh)		0.1	-	-	0	-

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Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
	WDL	WDK		INDIX	SDL	
Lane Configurations		0	ન	0	٥	र्ब 3
Traffic Vol, veh/h	0		6	0	0	
Future Vol, veh/h	0	0	6	0	0	3
Conflicting Peds, #/hr	0	O Cton	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	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, %	0	0	0	0	0	0
Mvmt Flow	0	0	7	0	0	3
Major/Minor N	Minor1	N	Major1	N	//ajor2	
Conflicting Flow All	10	7	0	0	7	0
Stage 1	7	_	-	-	-	-
Stage 2	3	_	_	_	_	_
Critical Hdwy	6.4	6.2	_	_	4.1	_
Critical Hdwy Stg 1	5.4	-	_	_		_
Critical Hdwy Stg 2	5.4	_	_	_	_	_
Follow-up Hdwy	3.5	3.3	_	_	2.2	-
Pot Cap-1 Maneuver	1015	1081	_		1627	_
Stage 1	1013	-	_	_	1021	_
Stage 2	1021		_	-	-	
	1025	-		-	-	-
Platoon blocked, %	101E	1001	-	-	1007	-
Mov Cap-1 Maneuver	1015	1081	-	-	1627	-
Mov Cap-2 Maneuver	1015	-	-	-	-	-
Stage 1	1021	-	-	-	-	-
Stage 2	1025	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	A				•	
	, ,					
		NET	NES	A/DL 4	051	007
Minor Lane/Major Mvm	<u>nt</u>	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	-	1627	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		-	-	0	0	-
HCM Lane LOS		-	-	Α	Α	-
HCM 95th %tile Q(veh)	-	-	-	0	-
HCIVI 95th %tile Q(ven)	-	-	-	U	-

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1: Mississauga Heights Drive & Glengarry Road/Queensway West

Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u>₽</u>	LUI	WDL	₩ <u>₩</u>	₩.	אטוז
Traffic Vol, veh/h	120	6	0	159	'T'	2
•	120		0	159		2
Future Vol, veh/h		6	0		4	
Conflicting Peds, #/hr	0		9	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	110110		None		None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	3	0	0	3	0	0
Mvmt Flow	132	7	0	175	4	2
Major/Minor	lajor1		Jaior?	N	Minor1	
	_		Major2			445
Conflicting Flow All	0	0	148	0	320	145
Stage 1	-	-	-	-	145	-
Stage 2	-	-	-	-	175	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1446	-	678	908
Stage 1	-	-	-	-	887	-
Stage 2	-	-	-	-	860	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	_	_	1434	-	673	901
Mov Cap-2 Maneuver	_	_	-	-	673	-
Stage 1	_	_	_	_	880	_
Stage 2	_	_	_	_	860	_
Olaye Z	_	_	_	_	000	_
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		9.9	
HCM LOS					Α	
		.D			14/51	14/5-
Minor Lane/Major Mvmt	t 1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		735	-	-	1434	-
HCM Lane V/C Ratio		0.009	-	-	-	-
HCM Control Delay (s)		9.9	-	-	0	-
HCM Lane LOS		Α	-	-	Α	-
HCM 95th %tile Q(veh)		0	-	-	0	-

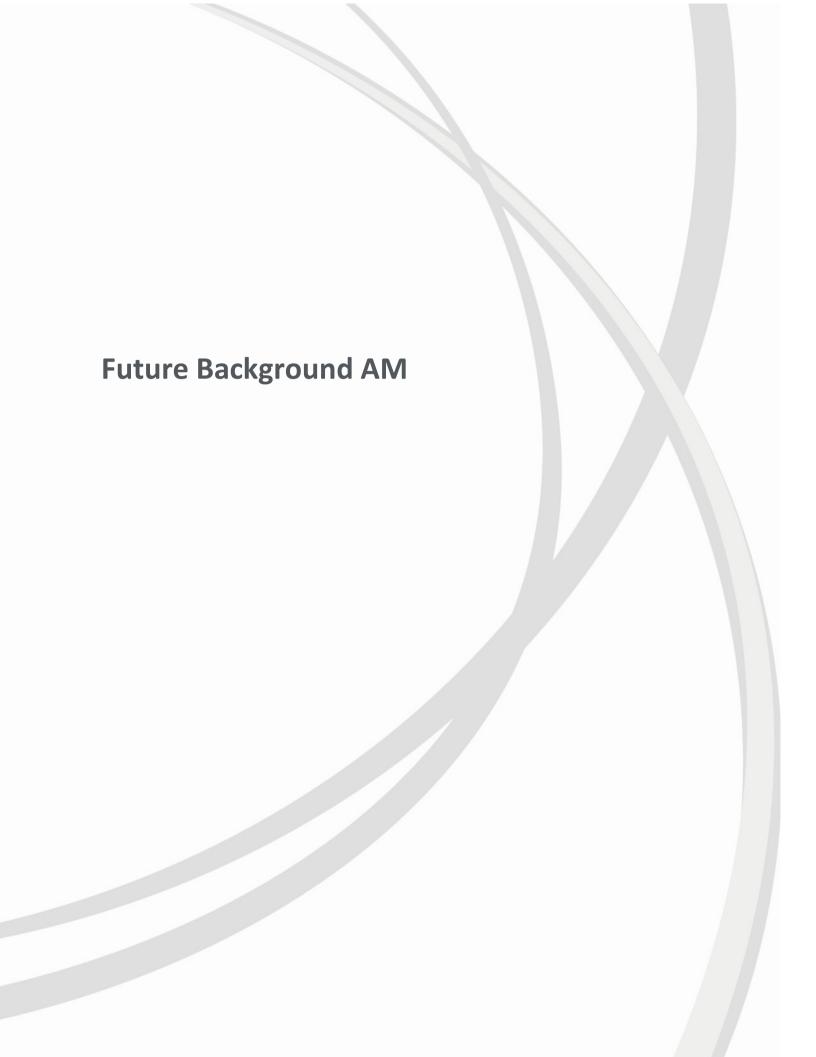
Synchro 11 Report Page 1 04-03-2023

0.2					
EBT	EBR	WBL	WBT	NBL	NBR
	0	3			5
					5
					3
					Stop
-		-			None
_	-	_	-		-
.# 0	_	_	0		_
					_
					92
					0
					5
100	U	J	213		J
/lajor1	N	Major2	N	Minor1	
0	0	201	0	422	204
-	-	-	-	201	-
-	-	-	-	221	-
-	_	4.1	-	6.4	6.2
-	-	-	-	5.4	-
_	-	-	-	5.4	_
-	-	2.2	-		3.3
-	_		-		842
_	_		_		-
_	_				_
	_			021	
		1360		580	826
	_				-
	_				_
	_		-		
-	<u>-</u>	-	-	Ø19	-
EB		WB		NB	
0		0.1		9.9	
		• • • • • • • • • • • • • • • • • • • •			
				, \	
	IDI 4	EDT	ED.0	14/51	VA/DT
t N		EBT	EBR		WBT
		-	-		-
		-	-		-
		-	-		0
	Α	-	-	Α	Α
)	0			0	_
	EBT 168 168 0 Free ,# 0 0 92 1 183 Major1	EBT EBR 168 0 168 0 0 18 Free Free - None 92 92 1 0 183 0 Major1 N 0 0	EBT EBR WBL 168	EBT EBR WBL WBT 168 0 3 198 168 0 3 198 0 18 18 0 Free Free Free Free - None - None 0 0 0 92 92 92 92 1 0 0 0 92 92 92 2 1 0 0 0 183 0 3 215 Major1 Major2 N 0 0 201 0 4.1 1383 1383 1360 1360 1360 1360 1360 1360 1360 1360 1360 1360 1360	EBT EBR WBL WBT NBL 168 0 3 198 2 168 0 3 198 2 0 18 18 0 0 Free Free Free Stop - None - None - 0 0 - - 0 0 0 92

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Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		f			स
Traffic Vol, veh/h	0	0	7	0	0	3
Future Vol, veh/h	0	0	7	0	0	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	0	8	0	0	3
			-		•	
	Minor1		/lajor1		/lajor2	
Conflicting Flow All	11	8	0	0	8	0
Stage 1	8	-	-	-	-	-
Stage 2	3	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	1014	1080	-	-	1625	-
Stage 1	1020	-	-	-	-	-
Stage 2	1025	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	1014	1080	-	-	1625	-
Mov Cap-2 Maneuver	1014	-	-	-	-	-
Stage 1	1020	-	-	-	-	-
Stage 2	1025	-	-	-	-	-
Approach	WB		NB		SB	
			0			
HCM Control Delay, s	0		U		0	
HCM LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	-	1625	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		-	-	0	0	-
HCM Lane LOS		-	-	Α	Α	-
HCM 95th %tile Q(veh)	-	-	-	0	-
	,					

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Intersection						
Int Delay, s/veh	0.1					
	EBT	EBR	WBL	WBT	NBL	NBR
		CDK	WBL			NDK
Lane Configurations	100	4	٥	4127	¥	4
Traffic Vol, veh/h	126	1	0	137	2	1
Future Vol, veh/h	126	1	0	137	2	1
Conflicting Peds, #/hr	0	6	6	0	0	0
•	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	77	77	77	77	77	77
Heavy Vehicles, %	3	0	0	0	0	100
Mvmt Flow	164	1	0	178	3	1
Major/Minor Ma	ajor1	N	Major2	N	/linor1	
Conflicting Flow All	0	0	171	0	349	171
Stage 1	-	-	- 17 1	-	171	-
Stage 2	_	_	_	_	178	_
Critical Hdwy	_	_	4.1	_	6.4	7.2
Critical Hdwy Stg 1	_	_	7.1	_	5.4	- 1.2
Critical Hdwy Stg 2	_		_	_	5.4	_
Follow-up Hdwy	_	_	2.2	_	3.5	4.2
Pot Cap-1 Maneuver	_	_	1418		652	672
Stage 1	_	_	1410	_	864	- 012
Stage 2	_				858	_
Platoon blocked, %	-	-	-	-	000	_
Mov Cap-1 Maneuver	-	-	1410		648	668
		•		-	648	
Mov Cap-2 Maneuver	-	-	-	-	859	-
Stage 1	-	-	-	-		-
Stage 2	-	-	-	-	858	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		10.5	
HCM LOS					В	
				EDD	WBL	WDT
Minor Long/Mailer Mary		IDI 4	FDT		VVBI	WBT
Minor Lane/Major Mvmt	1	NBLn1	EBT	EBR		
Capacity (veh/h)		655	-	-	1410	-
Capacity (veh/h) HCM Lane V/C Ratio		655 0.006	-	-	1410	-
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		655 0.006 10.5	- - -	- - -	1410 - 0	- - -
Capacity (veh/h) HCM Lane V/C Ratio		655 0.006	-	-	1410	-

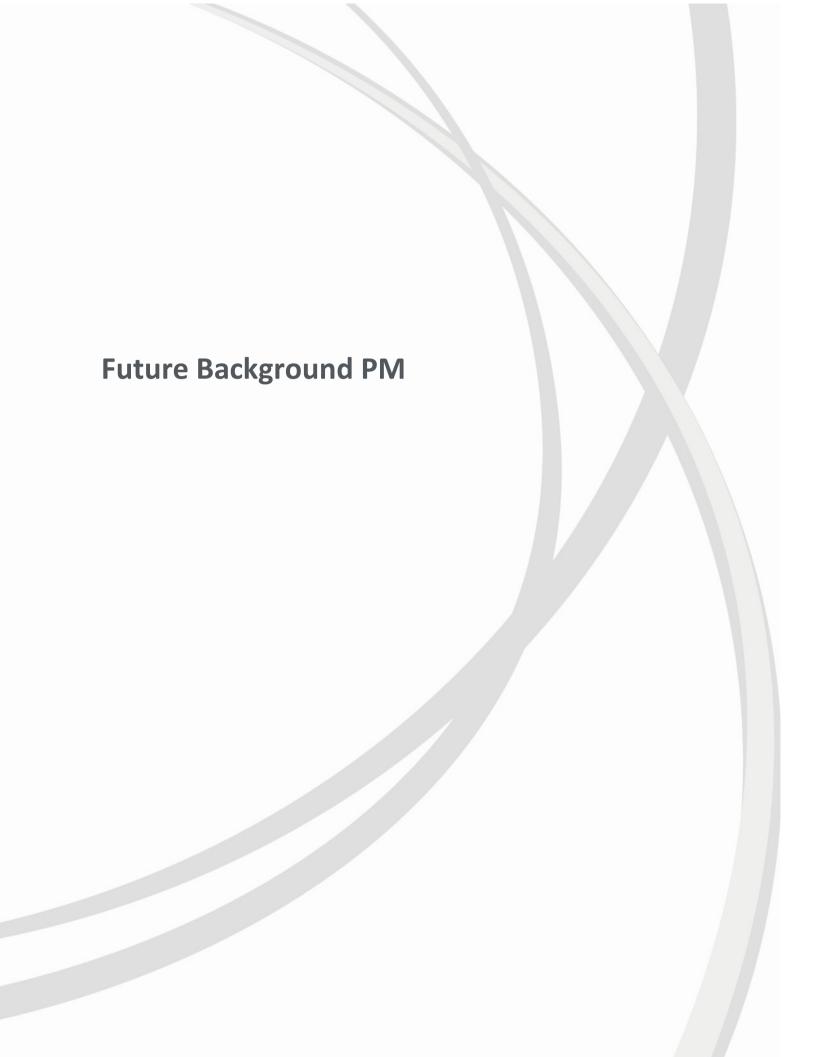
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Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ĵ.			4	¥	
Traffic Vol, veh/h	333	0	3	404	1	5
Future Vol, veh/h	333	0	3	404	1	5
Conflicting Peds, #/hr		11	11	0	2	1
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		_	None	_	None
Storage Length	-	-	-	_	0	-
Veh in Median Storag	e,# 0	-	-	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	71	71	71	71	71	71
Heavy Vehicles, %	0	0	33	1	100	0
Mymt Flow	469	0	4	569	1	7
IVIVIIIL I IOW	703	U		503		1
	Major1	N	Major2		Minor1	
Conflicting Flow All	0	0	480	0	1059	481
Stage 1	-	-	-	-	480	_
Stage 2	-	-	-	-	579	-
Critical Hdwy	-	-	4.43	-	7.4	6.2
Critical Hdwy Stg 1	-	-	-	-	6.4	-
Critical Hdwy Stg 2	-	_	-	_	6.4	_
Follow-up Hdwy	_	_	2.497	_	4.4	3.3
Pot Cap-1 Maneuver	_	_	939	_	165	589
Stage 1	_	_	-	_	461	-
Stage 2	_	_	-	_	408	_
Platoon blocked, %	_	_		_	700	
Mov Cap-1 Maneuver		_	930	_	162	583
Mov Cap-1 Maneuver		_	-	_	162	-
Stage 1	_	_	_	_	456	_
Stage 1	_	_	_	-	405	_
Stage 2	-	-	-	_	405	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		14	
HCM LOS	-				В	
		.D			14/51	\4/5 =
Minor Lane/Major Mvr	nt N	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		407	-	-	930	-
HCM Lane V/C Ratio		0.021	-	-	0.005	-
HCM Control Delay (s	(3)	14	-	-	8.9	0
HCM Lane LOS		В	-	-	Α	Α
HCM 95th %tile Q(vel	1)	0.1	-	-	0	-

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Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		1			4
Traffic Vol, veh/h	0	0	6	0	0	3
Future Vol, veh/h	0	0	6	0	0	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
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, %	0	0	0	0	0	0
Mvmt Flow	0	0	7	0	0	3
Major/Minor	Minor1		laior1		10ior?	
			//ajor1		Major2	
Conflicting Flow All	10	7	0	0	7	0
Stage 1	7	-	-	-	-	-
Stage 2	3	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	1015	1081	-	-	1627	-
Stage 1	1021	-	-	-	-	-
Stage 2	1025	-	-	-	-	-
Platoon blocked, %	1015	1001	-	-	4007	-
Mov Cap-1 Maneuver	1015	1081	-	-	1627	-
Mov Cap-2 Maneuver	1015	-	-	-	-	-
Stage 1	1021	-	-	-	-	-
Stage 2	1025	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	A					
TIOM EGG						
Minor Long/Major My	.1	NDT	NDDV	VDI 1	CDI	CDT
Minor Lane/Major Mvm	I	NBT		VBLn1	SBL	SBT
Capacity (veh/h)		-	-	-	1627	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		-	-	0	0	-
HCM Lane LOS		-	-	A -	A 0	-
HCM 95th %tile Q(veh	١					

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Intersection						
Int Delay, s/veh	0.2					
•			14/5	\4/5 =		NES
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	₽			र्स	¥	
Traffic Vol, veh/h	132	6	0	176	4	2
Future Vol, veh/h	132	6	0	176	4	2
Conflicting Peds, #/hr	0	9	9	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	91	91	91	91	91	91
Heavy Vehicles, %	3	0	0	3	0	0
Mvmt Flow	145	7	0	193	4	2
Major/Minor	oior1		/oicr0		line=1	
	ajor1		Major2		Minor1	450
Conflicting Flow All	0	0	161	0	351	158
Stage 1	-	-	-	-	158	-
Stage 2	-	-	-	-	193	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1430	-	650	893
Stage 1	-	-	-	-	875	-
Stage 2	-	-	-	-	845	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1418	-	645	886
Mov Cap-2 Maneuver	-	-	-	-	645	-
Stage 1	-	-	-	-	868	-
Stage 2	-	_	-	-	845	-
A I.			ME		NE	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		10.1	
HCM LOS					В	
Minor Lane/Major Mvmt	N	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		709			1418	
HCM Lane V/C Ratio		0.009	-	-	-	_
HCM Control Delay (s)		10.1	_	_	0	_
		В	_	-	A	_
HUIVI I and I UN					_ ~	-
HCM Lane LOS HCM 95th %tile Q(veh)		0	_	_	0	_

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Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ĵ.			4	¥	
Traffic Vol, veh/h	185	0	3	219	2	5
Future Vol, veh/h	185	0	3	219	2	5
Conflicting Peds, #/hr		18	18	0	0	3
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	_	-	_	-	0	-
Veh in Median Storag	e,# 0	_	_	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	1	0	0	0	0	0
Mymt Flow	201	0	3	238	2	5
IVIVIIIL FIOW	201	U	J	230	2	5
Major/Minor	Major1	N	Major2	1	Minor1	
Conflicting Flow All	0	0	219	0	463	222
Stage 1	-	-	-	-	219	-
Stage 2	-	-	-	-	244	-
Critical Hdwy	_	_	4.1	-	6.4	6.2
Critical Hdwy Stg 1	_	_	-	_	5.4	-
Critical Hdwy Stg 2	_	_	_	_	5.4	_
Follow-up Hdwy	_	_	2.2	_	3.5	3.3
Pot Cap-1 Maneuver	_	_	1362	_	561	823
Stage 1	_	_	-	_	822	-
Stage 2	_	_	_	_	801	_
Platoon blocked, %	_	_		_	001	
Mov Cap-1 Maneuver		_	1340	_	550	808
Mov Cap-1 Maneuver		_	-	_	550	-
		-		_	808	
Stage 1		-	-	-		
Stage 2	-	-	-	-	799	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		10.1	
HCM LOS			• • • • • • • • • • • • • • • • • • • •		В	
Minor Lane/Major Mvi	mt N	NBLn1	EBT	EBR		WBT
Capacity (veh/h)		713	-		1340	-
HCM Lane V/C Ratio		0.011	-	-	0.002	-
HCM Control Delay (s	s)	10.1	-	-	7.7	0
HCM Lane LOS		В	-	-	Α	Α
HCM 95th %tile Q(vel	h)	0	-	-	0	-

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Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		1			4
Traffic Vol, veh/h	0	0	7	0	0	3
Future Vol, veh/h	0	0	7	0	0	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	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, %	0	0	0	0	0	0
Mymt Flow	0	0	8	0	0	3
IVIVIIIL I IOW	U	U	U	U	U	J
Major/Minor N	/linor1	١	Major1	N	/lajor2	
Conflicting Flow All	11	8	0	0	8	0
Stage 1	8	-	-	-	-	-
Stage 2	3	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	1014	1080	-	-	1625	-
Stage 1	1020	-	-	-	-	-
Stage 2	1025	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	1014	1080	-	-	1625	-
Mov Cap-2 Maneuver	1014	-	-	-	-	-
Stage 1	1020	-	-	-	-	-
Stage 2	1025	_	-	_	_	_
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	Α					
Minor Lane/Major Mvm	t _	NBT	NRRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	VDLIII	1625	- 301
HCM Lane V/C Ratio		-	_	-	1023	-
HCM Control Delay (s)		<u>-</u>	-	0	0	
HCM Lane LOS		_	_	A	A	_
HCM 95th %tile Q(veh)		<u>-</u>	-	- -	0	_
TIOW JOHT JUHIE Q(VEII)		_			U	

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1: Mississauga Heights Drive & Glengarry Road/Queensway West

Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1≽	בטוע	TTDL	4	¥	HOIL
Traffic Vol, veh/h	126	1	0	137	3	1
Future Vol, veh/h	126	1	0	137	3	1
Conflicting Peds, #/hr	0	6	6	0	0	0
Sign Control	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	77	77	77	77	77	77
Heavy Vehicles, %	3	0	0	0	0	100
Mvmt Flow	164	1	0	178	4	100
IVIVIIIL FIUW	104		U	170	4	
Major/Minor M	lajor1	N	//ajor2	N	Minor1	
Conflicting Flow All	0	0	171	0	349	171
Stage 1	-	_	-	-	171	-
Stage 2	-	-	-	-	178	-
Critical Hdwy	-	-	4.1	-	6.4	7.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	_	-	2.2	-	3.5	4.2
Pot Cap-1 Maneuver	_	_		-	652	672
Stage 1	-	_	-	_	864	-
Stage 2	_	_	_	_	858	_
Platoon blocked, %	_	_		_	500	
Mov Cap-1 Maneuver	_	_	1410		648	668
Mov Cap-1 Maneuver	_		1410	-	648	-
Stage 1		<u>-</u>		_	859	_
		-			858	
Stage 2	-	-	-	-	ood	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		10.6	
HCM LOS					В	
		ID			14/5:	14/5-
Minor Lane/Major Mvmt		NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		653	-	-	1410	-
HCM Lane V/C Ratio		0.008	-	-	-	-
HCM Control Delay (s)		10.6	-	-	0	-
HCM Lane LOS		В	-	-	Α	-
HCM 95th %tile Q(veh)		0	-	-	0	-

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Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
	<u>- □ □ □</u>	LDI	WDL	4 4	NDL W	אטא
Lane Configurations		0	1			7
Traffic Vol, veh/h	333	0	4	404	1	7
Future Vol, veh/h	333	0	4	404	1	7
Conflicting Peds, #/hr	_ 0	_ 11	_ 11	_ 0	2	1
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	71	71	71	71	71	71
Heavy Vehicles, %	0	0	33	1	100	0
Mvmt Flow	469	0	6	569	1	10
IVIVIIICI IOW	400	U	U	000		10
Major/Minor I	Major1	N	Major2	N	Minor1	
Conflicting Flow All	0	0	480	0	1063	481
Stage 1	-	-	-	-	480	-
Stage 2	_	_	_	_	583	_
Critical Hdwy	_	_	4.43	_	7.4	6.2
Critical Hdwy Stg 1	_	_		_	6.4	-
Critical Hdwy Stg 2				_	6.4	_
	-	_	2 407			
Follow-up Hdwy	-		2.497	-	4.4	3.3
Pot Cap-1 Maneuver	-	-	939	-	164	589
Stage 1	-	-	-	-	461	-
Stage 2	-	-	-	-	406	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	930	-	161	583
Mov Cap-2 Maneuver	-	-	-	-	161	-
Stage 1	_	_	_	_	456	_
Stage 2	_	_	_	_	402	_
Olago Z					102	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		13.4	
HCM LOS					В	
Minor Lane/Major Mvm	nt 1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		439	-	-	930	-
		0.000	_	-	0.006	-
HCM Lane V/C Ratio		0.026	-			
		13.4	_	-	8.9	0
HCM Control Delay (s)		13.4				
			-	-	8.9 A 0	0 A

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Intersection						
Int Delay, s/veh	2.5					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	WDL	ופויי	1\01 ↑	NOI	ODL	<u>उष्टा</u>
		2	6	0	1	€ 3
Traffic Vol, veh/h		2			•	
Future Vol, veh/h	1	2	6	0	1	3
Conflicting Peds, #/hr	0	0	_ 0	_ 0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
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, %	0	0	0	0	0	0
Mvmt Flow	1	2	7	0	1	3
WWITE FIOW		_		U		U
	/linor1		Major1		Major2	
Conflicting Flow All	12	7	0	0	7	0
Stage 1	7	-	-	-	-	-
Stage 2	5	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	_
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	_	-	-	-	_
Follow-up Hdwy	3.5	3.3	_	_	2.2	_
Pot Cap-1 Maneuver	1013	1081	_	-	1627	_
Stage 1	1021	-	_	_	1021	_
Stage 2	1023	_			_	
	1023	-	-	-	-	_
Platoon blocked, %	1010	4004	-	_	4007	-
Mov Cap-1 Maneuver	1012	1081	-	-	1627	-
Mov Cap-2 Maneuver	1012	-	-	-	-	-
Stage 1	1021	-	-	-	-	-
Stage 2	1022	-	-	-	-	-
Approach	WB		NB		SB	
	8.4		0		1.8	
HCM Control Delay, s			U		1.0	
HCM LOS	Α					
Minor Lane/Major Mvm	t	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		_	_	1057	1627	_
HCM Lane V/C Ratio		_		0.003		_
HCM Control Delay (s)		_	_	8.4	7.2	0
HCM Lane LOS		_	_	A	Α	A
HCM 95th %tile Q(veh)		_	_	0	0	-
Sivi ootii /otilo Q(VOII)				J	U	

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Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1			4	¥	
Traffic Vol, veh/h	133	7	0	176	5	2
Future Vol, veh/h	133	7	0	176	5	2
Conflicting Peds, #/hr	0	9	9	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	_		-	None	_	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	3	0	0	3	0	0
Mvmt Flow	146	8	0	193	5	2
			•		-	_
		-				
	1ajor1		/lajor2		/linor1	
Conflicting Flow All	0	0	163	0	352	159
Stage 1	-	-	-	-	159	-
Stage 2	-	-	-	-	193	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1428	-	650	892
Stage 1	-	-	-	-	875	-
Stage 2	-	_	-	-	845	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1416	-	645	885
Mov Cap-2 Maneuver	_	-	_	-	645	-
Stage 1	-	_	-	_	868	_
Stage 2	_	_	_	_	845	_
otago 2					010	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		10.2	
HCM LOS					В	
Minor Lane/Major Mvm	+ N	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		699	-	LDIX	1416	VVDI
HCM Lane V/C Ratio		0.011	_	-	1410	-
HCM Control Delay (s)		10.2	_	<u>-</u>	0	
HCM Lane LOS		10.2 B		•	A	-
HCM 95th %tile Q(veh)		0	-	-	0	-
		U	-	-	U	-

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Intersection						
Int Delay, s/veh	0.3					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1→	בטוע	VVDL	4	₩.	אטוו
Traffic Vol, veh/h	185	1	5	219	2	7
	185		5	219		7
Future Vol, veh/h		1			2	
Conflicting Peds, #/hr	0	18	18	0	0	3
Sign Control	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	92	92	92	92	92	92
Heavy Vehicles, %	1	0	0	0	0	0
Mvmt Flow	201	1	5	238	2	8
Major/Minor N	/lajor1	N	Major2	N	/linor1	
Conflicting Flow All	0	0	220	0	468	223
Stage 1	-	-	-	-	220	-
Stage 2	-	-	-	-	248	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	_	_	_	5.4	-
Critical Hdwy Stg 2	_	_	_	_	5.4	_
Follow-up Hdwy	_	_	2.2	_	3.5	3.3
Pot Cap-1 Maneuver	_	_	1361	_	557	822
•			1301		821	
Stage 1	-	-	-	-		-
Stage 2	-	-	-	-	798	-
Platoon blocked, %	-	-	1000	-		
Mov Cap-1 Maneuver	-	-	1339	-	545	807
Mov Cap-2 Maneuver	-	-	-	-	545	-
Stage 1	-	-	-	-	807	-
Stage 2	-	-	-	-	795	-
,						
			VA/D		ND	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.2		10	
HCM LOS					В	
Minor Lanc/Major Mum	+ 1	NBLn1	EPT	EDD	\\/DI	WBT
Minor Lane/Major Mymt	t ľ		EBT	EBR	WBL	
Capacity (veh/h)		729	-	-		-
HCM Lane V/C Ratio		0.013	-	-	0.004	-
HCM Control Delay (s)		10	-	-	7.7	0
HCM Lane LOS		В	-	-	Α	Α
HCM 95th %tile Q(veh)		0	-	-	0	-

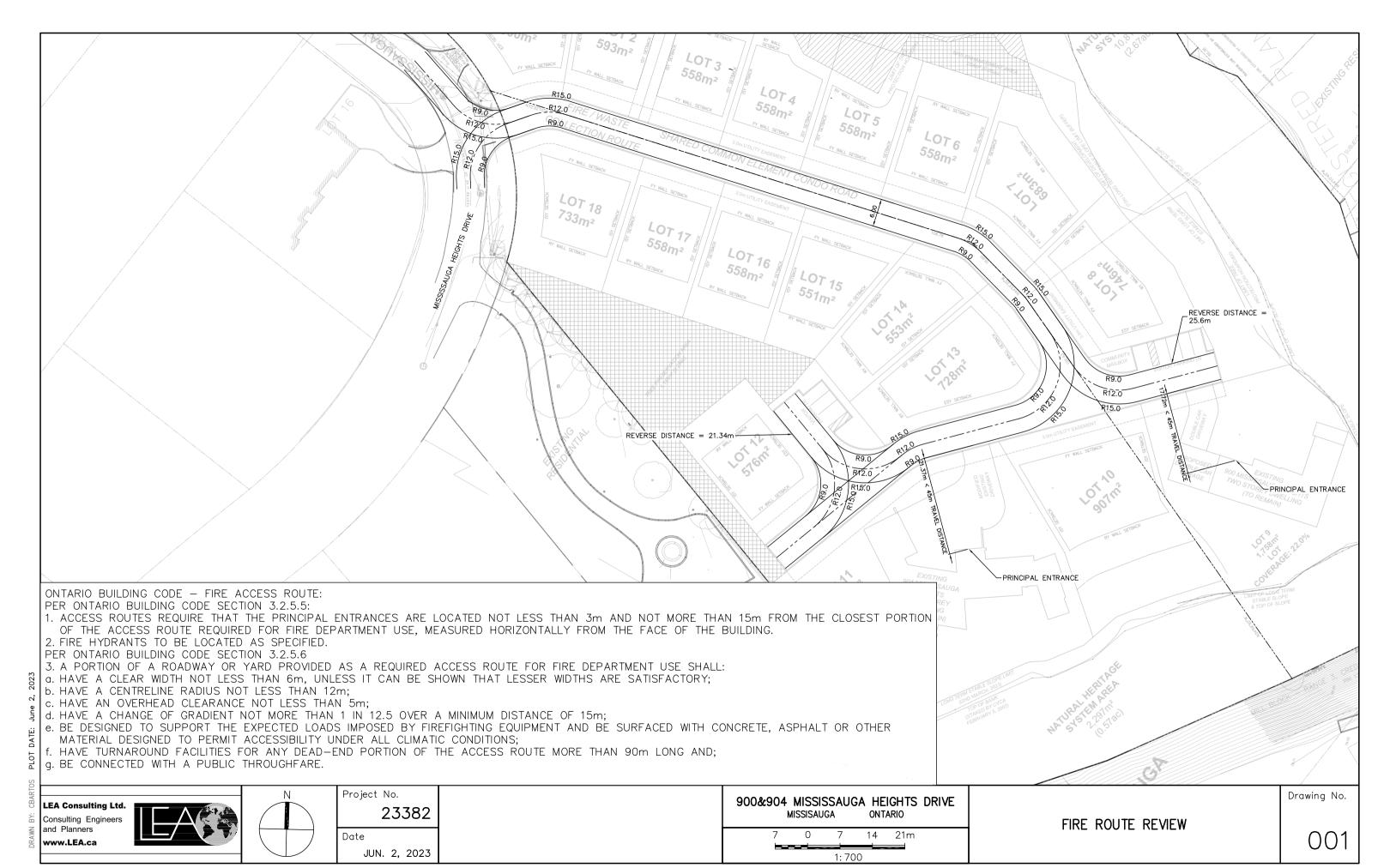
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Intersection						
Int Delay, s/veh	2.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		₽			4
Traffic Vol, veh/h	1	2	7	1	3	3
Future Vol, veh/h	1	2	7	1	3	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT 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, %	0	0	0	0	0	0
Mvmt Flow	1	2	8	1	3	3
WWW.CT IOW	•	_		•		
		-				
	Minor1		Major1		Major2	
Conflicting Flow All	18	9	0	0	9	0
Stage 1	9	-	-	-	-	-
Stage 2	9	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	1005	1079	-	-	1624	-
Stage 1	1019	-	-	-	-	-
Stage 2	1019	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	1003	1079	-	-	1624	_
Mov Cap-2 Maneuver	1003	-	-	-	_	-
Stage 1	1019	_	-	-	-	_
Stage 2	1017	_	_	_	_	_
Olago 2	1011					
Approach	WB		NB		SB	
HCM Control Delay, s	8.4		0		3.6	
HCM LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)			-	1052	1624	-
HCM Lane V/C Ratio		_	-	0.003		_
HCM Control Delay (s)				8.4	7.2	0
HCM Lane LOS		_	_	Α	Α.Σ	A
HCM 95th %tile Q(veh)	_	_	0	0	-
	1					

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APPENDIX D

Functional Design and Access Review



- 1. PER REGION OF PEEL WASTE COLLECTION DESIGN STANDARDS MANUAL (2020)
- 1.1. ACCESS ROAD
- 1.1.1. TURNS MUST HAVE A MIN. OF 13M TURNING RADIUS FOR WASTE COLLECTION VEHICLES.
- 1.1.2. ALL ACCESS ROADS MUST HAVE A MIN. 6M WIDTH AND MAX. 8% GRADING.
- 1.1.3. WASTE COLLECTION VEHICLES SHALL NOT REVERSE IN EXCESS OF 15m AND TURN WHILE REVERSING.

LEA Consulting Ltd. Consulting Engineers www.LEA.ca

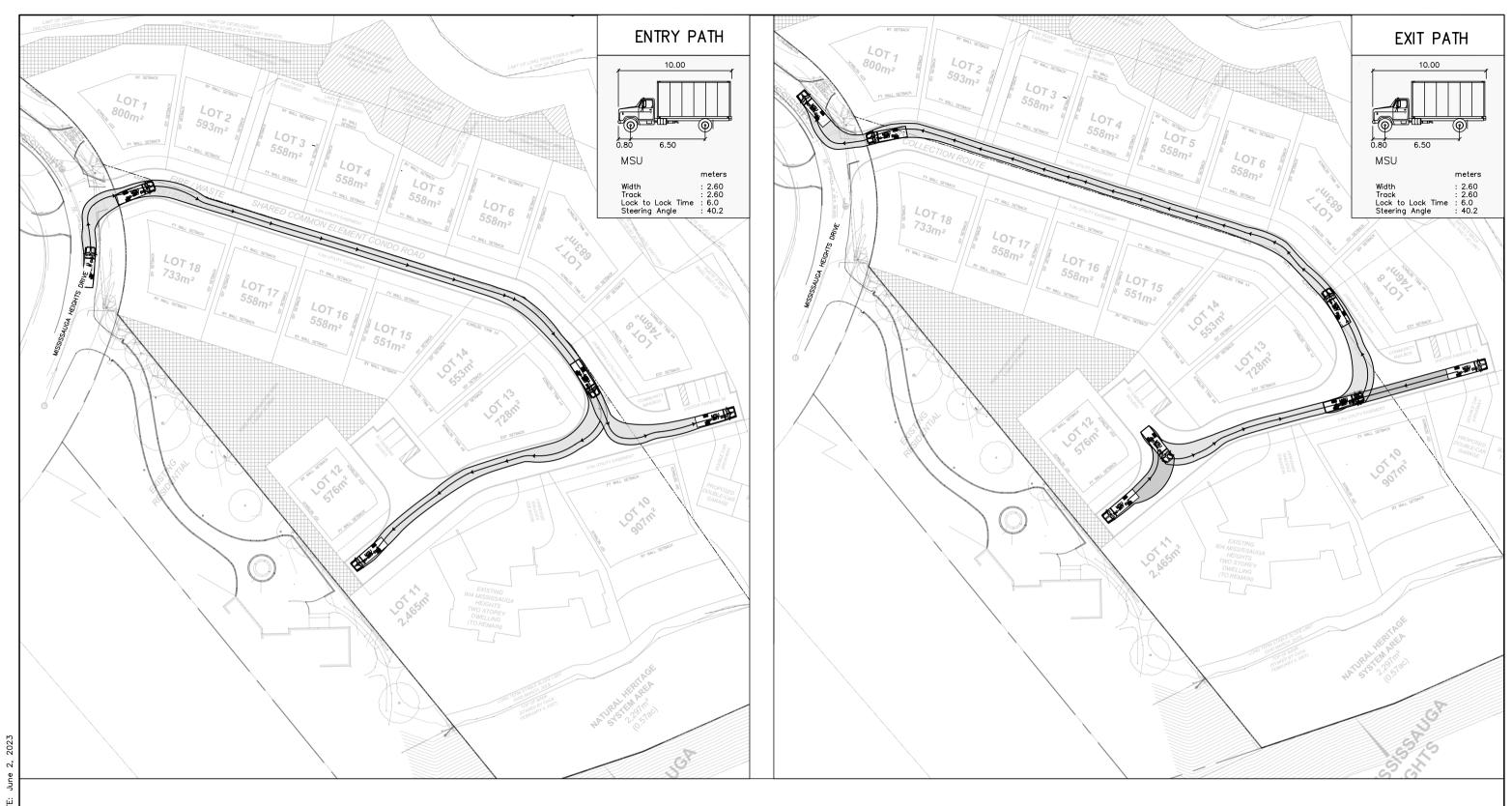
Project No. 23382 Date JUN. 2, 2023

900&904 MISSISSAUGA HEIGHTS DRIVE MISSISAUGA ONTARIO 0 10 20 30m 1:1000

LOADING REVIEW REGION OF PEEL GARBAGE TRUCK ENTRY AND EXIT PATHS

Drawing No.

002



NOTES:

1. ACCESS ROUTE MUST BE MIN 7m AT POINT OF INGRESS/EGRESS TO SITE WITH A UNENCUMERED VERTICAL CLEARANCE OF 4.4.



Project No.

23382

Date

JUN. 2, 2023

900&904 MISSISSAUGA HEIGHTS DRIVE
MISSISAUGA ONTARIO

9 0 9 18 27m
1:900

LOADING REVIEW
MSU (DELIVERY) TRUCK SWEPT PATHS
ENTRY AND EXIT PATHS

Drawing No.

003

