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NextEng Consulting Group Inc.

June 15, 2020

Mr. Jonathan Marmer

Plazacorp 10 Wanless Avenue, Suite 201 Toronto, ON M4N 1V6

Re: Parking Rate Review Letter Proposed Residential Development 420 Lakeshore Road E, City of Mississauga Our Project No. NT-20-049

Nextrans Consulting Engineers (A Division of NextEng Consulting Group Inc.) is pleased to provide a Parking Rate Review Letter in support of a proposed mixed-use development located at 420 Lakeshore Road E, in the City of Mississauga.

It is Nextrans' understanding that the subject property is located at the southwest corner of Lakeshore Road East and Enola Avenue, in the City Mississauga. The proposed development consists of a 12-storey mixed-use residential building with 195 dwelling units and a ground related retail GFA of approximately 538 m². A total of 187 parking spaces are proposed on-site.

1.0 City of Mississauga Parking Requirement (Zoning By-law 0225-2007)

It is Nextrans' understanding that the site is currently zoned for Mainstreet Commercial (C4) under the current City of Mississauga Zoning By-law 0225-2007 (in effect).

Table 1 below summarizes the vehicle parking requirements for the proposed development, based on the City of Mississauga Zoning By-law 0225-2007 (in effect), which reflects all amendments up to March 2020. The retail parking requirement will be based on C4 zone.

Unit Type	No. of Unit	Parking Rates	Parking Requirement
	2 townhouse units	2.00 space/unit	4
	4 live/work units	1.25 space/unit	5
Residential	2 townhouse units 4 live/work units	1.25 space/unit (1br)	93
	87 units (2br)	1.40 space/unit (2br)	122
	28 units (3br)	nits 2.00 space/unit its 1.25 space/unit r) 1.25 space/unit (1br)) 1.40 space/unit (2br)) 1.75 space/unit (3br or more) 0.20 spaces/unit for visitor nits 0.25 spaces/unit for visitor 4.0 spaces per 100 m ² GFA	49
Vicitor	193 units	0.20 spaces/unit for visitor	39
VISILOI	2 townhouse units	0.25 spaces/unit for visitor	1
Retail	538 m ²	4.0 spaces per 100 m ² GFA	21
	Total		334 spaces

Table 1 – City of Mississauga Zoning By-law No. 0225-2007 Vehicle Parking Requirements

Based on the assessment noted above, the proposed development will require to provide approximately 334 vehicle parking spaces, inclusive of residential, visitor and retail uses. It is Nextrans' opinion that these rates are excessive and do not support the Hurontario LTR investment by Metrolinx and the City of Mississauga. It is Nextrans' opinion that the



parking rates should be reduced as parking management is the best Transportation Demand Management measure. At the minimum, the applicable parking rates for the proposed development should be similar to the approved rates for other background developments in the area.

Nextrans provide the following assessment in support of reduced parking rates for the proposed development.

2.0 Approved Parking Rates in Other Developments in the City of Mississauga

Nextrans has reviewed the approved parking rates for various development in the City of Mississauga. **Table 2** below summarizes the proposed developments and associated approved parking rates. The detailed information is included in **Appendix A**.

Proposed Development	Description	Residential Parking Rates	Visitor Parking Rate	Retail Parking Rate
Endenshaw Apartments Ann Street and Park St E	Mixed-use development	0.75 space/unit (1b) 0.90 space/unit (2b) 1.10 space/unit (3b)	Shared 0.10 space per dwelling unit	Shared 1.0 space per dwelling unit
Endenshaw Apartments Park St E Stavebank Rd	Residential development	0.8 space/unit (1b) 1.0 space/unit (2b) 1.3 space/unit (3b)	0.10 space per dwelling unit	NA

Table 2 – Approved Parking Rates in Other Developments in the City of Mississauga

Based on the information outlined in the table above, it is Nextrans' opinion that the Endenshaw Apartments (Ann Street and Park Street E) is applicable to the proposed development given the location and context of the proposed development (compact and efficient). The residents can connect to the future Hurontario LTR via existing MiWay Bus Routes. This is a viable and cheaper mode of transportation than to own a car.

These recommended rates are also supported by four justifications provided below.

3.0 Parking Reduction Justification

The subject site is located on Lakeshore Road E, approximately between Hurontario Street and Cawthra Road. Lakeshore Road E is currently serviced by MiWay Route 23, which connect Sheridan Centre on Erin Mills Parkway to the west and Long Branch GO Station to the east. MiWay Route 2 also services along Hurontario Street between Lakeshore Road E and Square One City Centre. The proposed 18 km Hurontario LRT by Metrolinx is also under construction that will connect Port Credit GO Station with the City of Brampton.

It is Nextrans' opinion that the area is currently servicing by excellent transit network and a complete network of sidewalk that will encourage other modes of transportation such as walking, cycling and public transit. Future residents living in the proposed development will have other ways to travel around, less dependent on private automobile and therefore will not require many parking spaces.

3.1. Area Transportation Context

The subject site is located on Lakeshore Road E, approximately between Hurontario Street and Cawthra Road. Lakeshore Road E is currently serviced by MiWay Route 23, which connect Sheridan Centre on Erin Mills Parkway to the west and Long Branch GO Station to the east. MiWay Route 2 also services along Hurontario Street between Lakeshore Road E and Square One City Centre. The proposed 18 km Hurontario LRT by Metrolinx is also under construction that will connect Port Credit GO Station with the City of Brampton.



It is Nextrans' opinion that the area is currently servicing by excellent transit network and a complete network of sidewalk that will encourage other modes of transportation such as walking, cycling and public transit. Future residents living in the proposed development will have other ways to travel around, with less dependent on private automobile and therefore will not require many parking spaces.

There are also many existing amenities in the area that the residents can walk or cycle to, instead of driving. Existing commercial plazas and other community amenities are located along both the north and south sides of the Lakeshore Road E within 10-20 minute-walking/cycing distance:

- o Metro grocery store;
- o Medical centre and restaurants/pet smart;
- o Mentor College Main Campus;
- o Adamson Estate Park and Helen Molasy Memorial Park;
- o Shoppers Drug Mart;
- o Rental apartment buildings;
- o High-rise condominium buildings;
- o Retirement homes;
- o Port Credit Secondary School;
- o Forest Avenue Public School;
- o Lions Club of Credit Valley Outdoor Pool; and
- o Other land uses and amenities

3.2. Existing Non-Auto Modal Share

 Table 3 summarizes the travel mode split information based on the review of the 2016 Transportation Tomorrow Survey data for Traffic Zones 3642, 3647, 3648 and 3877. The 2016 TTS data extraction is included in Appendix B.

Timo	Trips Made by Traffic Zones								
Time	Auto Driver	Transit	Cycle	Walk					
AM Peak Period (6:00 – 9:00)	67%	7%	23%	0%	3%				
PM Peak Period (4:00 – 7:00)	64%	7%	21%	0%	8%				

Table 3 – Non-Auto Modal Split based on 2016 TTS Data for Traffic Zones

Based on the information above, the non-auto mode of transportation (transit + walking + carpooling) accounts for 33% during the morning peak period and 36% during the afternoon peak period. This indicates that the non-driving mode of 33% and 36% are generally similar to the proposed 35% reduction in parking supply. Therefore, the proposed 35% parking reduction can be supported.

3.3. Existing Household Demographic and Car Ownership

Nextrans also reviewed the vehicle ownership for Ward 1. **Table 4** summarizes the vehicle ownership based on the 2016 Transportation Tomorrow Survey data, while the 2016 TTS data extraction is included in **Appendix B**.



Household Type			Household Size				Number of Available Vehicles					
House	Townhouse	Apartment	1	2	3	4	5+	0	1	2	3	4+
49%	7%	44%	31%	33%	16%	14%	6%	9%	40%	38%	10%	3%

Table 4 – Vehicle	Ownership for W	ard 1 Based on	2016 TTS Data
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As indicated, there is a large percentage of apartment household in Ward 1 (44%), almost one-third of the household with a single person (31%), 9% of households do not own a car and 40% own only one car. The data above supports lower parking rates as nearly 40% of the residents only own one car or less.

3.4. City of Mississauga Official Plan

Based on the City of Mississauga Official Plan Chapter 4 (Vision), "the City will plan for a strong, diversified economy supported by a range of mobility options and a variety of housing and community infrastructure to create distinct, complete communities".

One of the Guiding Principles (Section 4.4) states that "Mississauga will provide a range of mobility options (e.g., walking, cycling, transit, vehicular) for people of all ages and abilities by connecting people with places through coordinated land use, urban design and transportation planning efforts".

Furthermore, Policies 8.1.1 and 8.1.8 state that "Through the creation of a multi-modal transportation system, Mississauga will provide transportation choices that encourage a shift in lifestyle toward more sustainable transportation modes, such as transit and active transportation" and "To better utilize existing infrastructure, Mississauga will encourage the application of transportation demand management (TDM) techniques, such as car-pooling, alternative work arrangements and shared parking". It is Nextrans' opinion that TDM techniques such as parking management is one of the best and most effective TDM measures that could help the City achieves those visions and policies.

3.5. Transportation Demand Management

In order to encourage other modes of transportation for the proposed developments such as walking, cycling, carpooling and public transit, it is Nextrans' understanding that the proposed development will offer appropriate Transportation Demand Management (TDM) measures and incentives such as pre-loaded PRESTO CARDS, information package, direct pedestrian and cycling connections to public streets to support the proposed parking rates.

4.0 Conclusion and Recommendation

Based on the information provided in this Letter, Nextrans recommended that the Endenshaw Apartments (Ann Street and Park Street E) approved rates be applied to the proposed development.

It is anticipated that the small ground related retail floor area is intended to serve the future residents in the building along with other existing and future residents in the immediate area within walking distance. Given that this proposed retail is not a major destination, it is Nextrans' opinion that this small ground related retail will not generate any vehicular traffic to and from the proposed development and therefore it does not require any parking spaces.

Similarly, the proposed development includes 4 live/work units. Live/work unit means that the residents live and work within the same unit and is not required to travel outside of the unit. Therefore, it is Nextrans' opinion that no parking spaces are required to accommodate the live/work units. Based on the assessment noted above, **Table 5** below summarizes the recommended parking rates for the proposed mixed-use development.



Unit Type	No. of Unit	Parking Rates	Parking Requirement
	74 units (1bdr)	0.75 space/unit (1br)*	56
	87 units (2br)	0.90 space/unit (2br)*	78
Residential	28 units (3br)	1.1 space/unit (3br)*	31
	2 townhouse units (3br)	1.1 space/unit	2
	4 live/work units	None required	0
Visitor	195 units	0.10 spaces/unit for visitor*	20
Retail	538 m ²	None required	0
	Total	· · · · · · · · · · · · · · · · · · ·	187 spaces

Table 5 – Recommended Parking Rates for the Proposed Mixed-Use Development

Note: *Endenshaw Apartments (Ann Street and Park Street E) approved rates

Based on the recommended parking rates and comprehensive justifications provided above, the proposed development is required to provide 187 vehicle parking spaces, inclusive of resident, visitor and retail parking spaces.

We trust the enclosed sufficiently addresses your needs. Should you have any questions, please do not hesitate to contact the undersigned.

Yours truly,

Nextrans Consulting Engineers

A Division of NextEng Consulting Group Inc.

Richard Pernicky, CET, MITE Principal

Appendix A

Background Development Approved Parking Rates in the City of Mississauga



WHEREAS pursuant to sections 34 and 36 of the *Planning Act*, R.S.O. 1990, c.P.13, as amended, the council of a local municipality may, respectively, pass a zoning by-law and enact a by-law to impose a holding provision;

NOW THEREFORE the Council of The Corporation of the City of Mississauga ENACTS as follows:

 By-law Number 0225-2007, as amended, being a City of Mississauga Zoning By-law, is amended by adding the following Exception Table:

	ept that the following uses/re	Bulutions shan appij.						
Additional P	ermitted Uses							
4.15.6.53.1		1) Uses permitted in a C4 zone as contained in Table 6.2.1 of this By-law						
Regulations								
4.15.6.53.2	The provisions of Article 2 Subsection 2.1.30 and Line contained in Table 4.15.1 o	es 11.1, 11.2, 13.3, 15.5						
4.15.6.53.3	The uses contained in Sentence 4.15.6.53.1 of this Exception shall only be permitted on the first storey of an apartment							
4.15.6.53.4	Maximum floor space inde	ex - apartment zone	9.2					
4.15.6.53.5	Minimum gross floor area	- non-residential	250 m ²					
4.15.6.53.6	Maximum gross floor area of the 13^{th} and 14^{th} storeys	a - apartment zone for	each $1 150 \text{ m}^2$					
4.15.6.53.7	Maximum projection of all first storey measured from building							
4.15.6.53.8	Notwithstanding Sentence 4.15.6.53.7 of this Exception, 6.0 maximum projection of a rooftop balcony on the second 6.0 storey measured from the outermost face of the 6.0 building 6.0							
4.15.6.53.9	Notwithstanding Sentence maximum projection of a re the seventh storey measure the building	ooftop balcony located	lon					

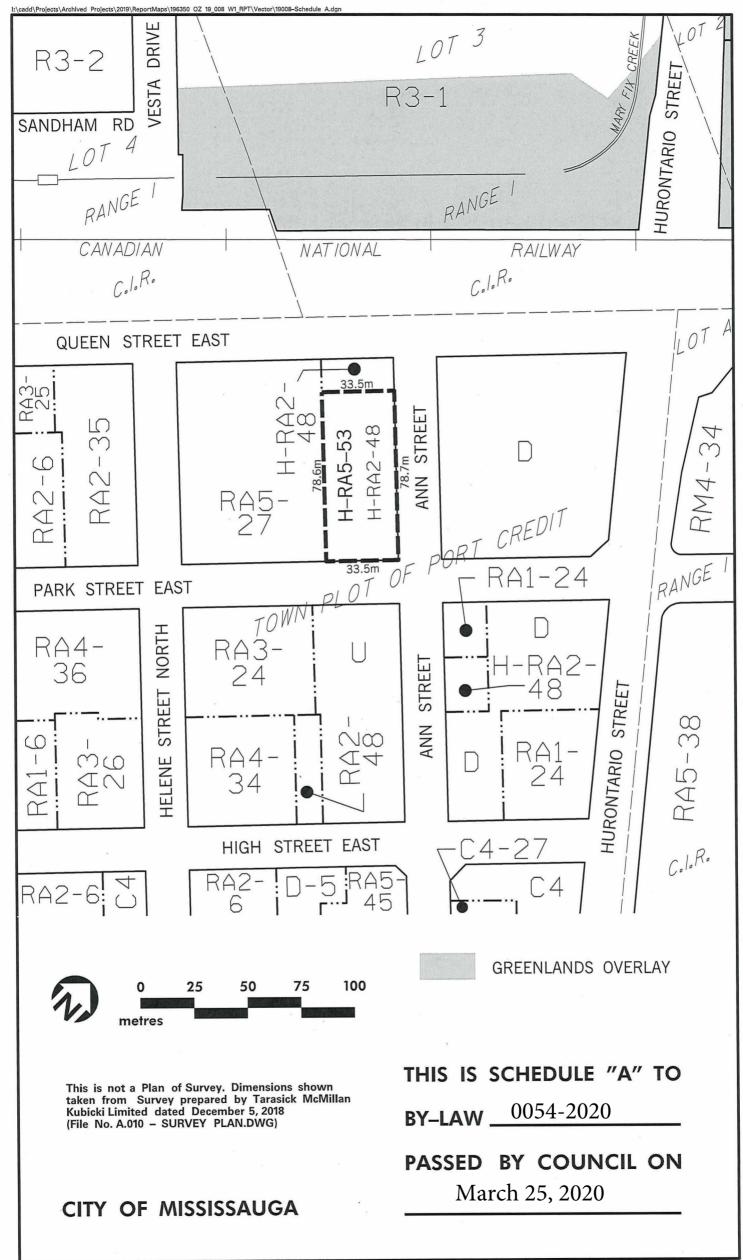
4.15.6.53	Exception: RA5-53	Map # 08	By-law:	
4.15.6.53.10	Notwithstanding Senten- maximum projection of ninth storey measured fr building	6.0 m		
4.15.6.53.11	Notwithstanding Senten- maximum projection of 15 th storey measured fro building	a rooftop balcony lo	ocated on the	29.5 m
4.15.6.53.12	Maximum projection of above the sixth storey m of the building	2.3 m		
4.15.6.53.13	External access stairwell permitted to extend beyo below grade parking st			
4.15.6.53.14	Notwithstanding Senten maximum projection of from the building face	2.2 m		
4.15.6.53.15	Notwithstanding Senten maximum projection of the building faces	2.2 m		
4.15.6.53.16	Notwithstanding Senten stairs and ramps shall be buildable area and encro			
4.15.6.53.17	Minimum number of res one-bedroom apartment		es per	0.75
4.15.6.53.18	Minimum number of res two-bedroom apartment		es per	0.90
4.15.6.53.19	Minimum number of res three-bedroom apartmer		es per	1.10
4.15.6.53.20	Minimum number of sha parking spaces per dwa		-residential	0.10
4.15.6.53.21	Minimum aisle width			6.6 m
4.15.6.53.22	Minimum landscaped a	irea		380 m ²
4.15.6.53.23	Minimum amenity area	ı		1 300 m ²
4.15.6.53.24	All site development pla Schedule RA5-53 of thi		h	

4.15.6.53	Excep	otion: RA5-53	Map # 08	By-law:	
Holding Pro	ovision				
	The ho	olding symbol H i	is to be removed fron	n the whole	
			zoned H-RA5-53 by		
			of Schedule B contain		
	Part 11	3 of this By-law,	as amended, upon sat	isfaction of	
	the fol	lowing requireme	ents:		
	(1)	delivery of an e	executed Development	nt	
			form and on terms s		
			Aississauga (the City)		
	(2)	-	grading and servicing		
			ds and specifications		
		to the City;			
	(3)	submission of a	an updated Functiona	1 Servicing	
		Report and Tra	ffic Impact Study sat	isfactory to	
		the City;			
	(4)	submission of a	a Phase II Environme	ntal Site	
		Assessment Re	ports and all support	ing	
			luding a Letter of Re	liance,	
		satisfactory to			
	(5)		Final Remediation Re		
			ecurities and a Dewa	•	
			ter of Reliance, satis		
			tion and Works Depa		
	(6)		Condition for lands t		
			e City and all support		
			luding Letter of Reli		
	(7)		angements with the R		
			Collection subject to		
			ollection Design Star		
	(8)		the Region of Peel t		
		-	angements have been		
	(0)		e water services to the		
	(9)		e Planning and Build	-	
			licating satisfactory a	-	
			e with respect to add	essing the	
	(10)	City's Housing			
	(10)		executed agreement f		
			nefits pursuant to sec		
			ct, as amended, in a t	orm and on	
		terms satisfacto	ny to the City.		

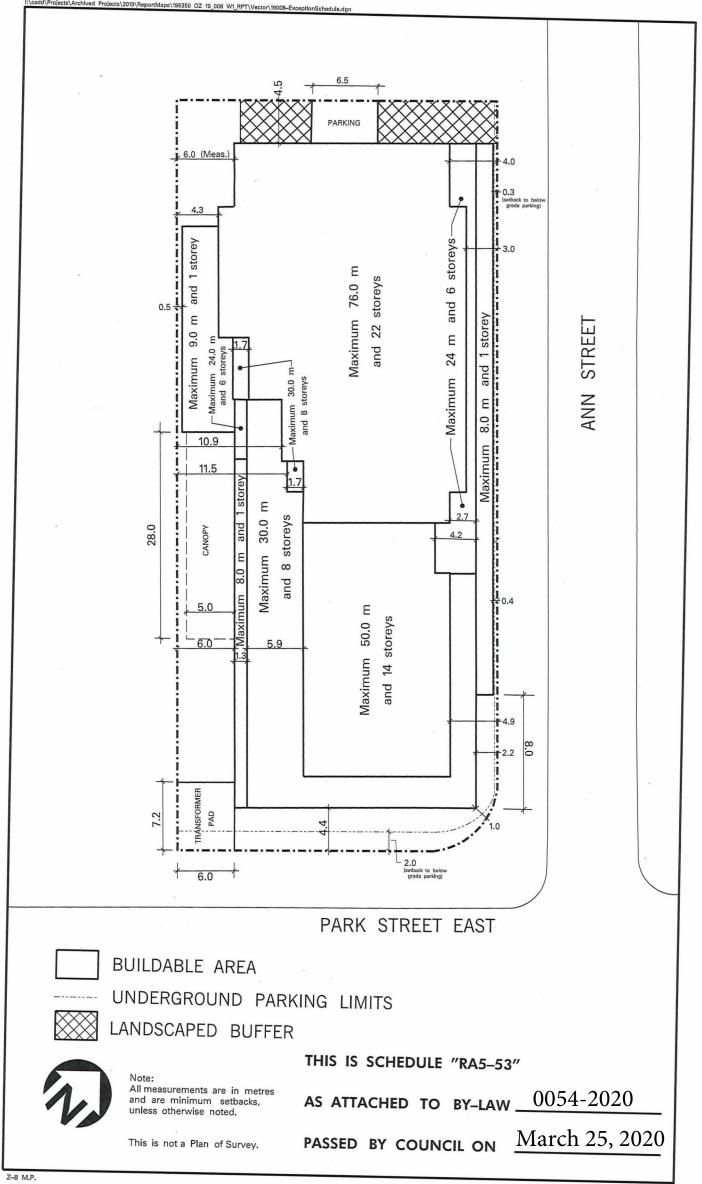
2. Map Number 08 of Schedule "B" to By-law Number 0225-2007, as amended, being a City of Mississauga Zoning By-law, is amended by changing thereon from "H-RA2-48" to "H-RA5-53", the zoning of Part of the Town Plot of Port Credit, in the City of Mississauga, PROVIDED HOWEVER THAT the "H-RA5-53" zoning shall only apply to the lands which are shown on the attached Schedule "A", which is deemed to be an integral part of this By-law, outlined in the heaviest broken line with the "H-RA5-53" zoning indicated thereon.

ENACTED and PASSED this _	25	day of	March	2020.
			Bonie	Cloubie
APPROVED		L	0 Tut	MAYOR
AS TO FORM City Solicitor MISSISSAUGA MEM Date 20 0 3 1.3				CLERK

FORM 309



OZ 19/008 W1



OZ 19/008 W1

APPENDIX "A" TO BY-LAW NUMBER 0054-2020

Explanation of the Purpose and Effect of the By-law

The purpose of this By-law is to permit a 22 storey apartment building with ground floor commercial uses and a FSI of 9.2.

This By-law amends the zoning of the property outlined on the attached Schedule "A" from "H-RA2-48" (Apartment – Exception with a Holding Provision) to "H-RA5-53" (Apartment – Exception with a Holding Provision).

"H-RA2-48" permits an 8 storey apartment building with an FSI of 1.0.

Upon removal of the "H" provision, the "RA5-53" zone will permit a 22 storey apartment building with ground floor commercial uses and a FSI of 9.2

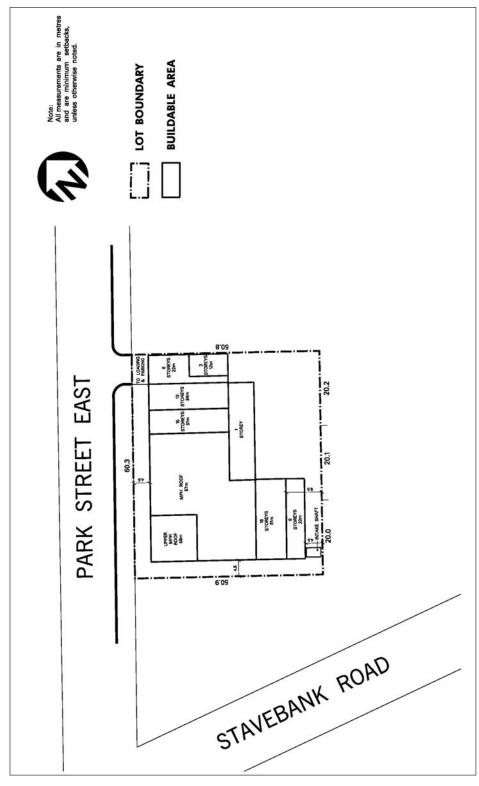
Location of Lands Affected

Northwest corner of Ann Street and Park Street East, in the City of Mississauga, as shown on the attached Map designated as Schedule "A".

Further information regarding this By-law may be obtained from David Ferro of the City Planning and Building Department at 905-615-3200 ext. 4554.

http://teamsites.mississauga.ca/sites/18/bylaws/oz 19 008 w1.by-law.df.fs.docx

4.15.5.48	Exception: RA4-48		By-law: 0174-2018, 0142-2019
	one the permitted uses and a e following uses /regulations	pplicable regulations shall be as shall apply:	specified for a RA4 zone
Regulations			
4.15.5.48.1		4.1.15.3 and the regulations of 2, 15.3 and 15.5 contained in v shall not apply	
4.15.5.48.2	Maximum floor space ind	ex	6.3
4.15.5.48.3	Maximum gross floor are each storey above 12 stor	a - apartment zone per storey f eys	for $1 200 \text{ m}^2$
4.15.5.48.4	Minimum front yard		4.5 m
4.15.5.48.5	Stairs, ramps, planters, car encroach into a required f	nopies and patios shall be permitt ront yard	red to
4.15.5.48.6	Minimum number of resid apartment dwelling unit	ent parking spaces per one-bedi	.coom 0.8
4.15.5.48.7	Minimum number of resid apartment dwelling unit	ent parking spaces per two-bedr	room 1.0
4.15.5.48.8	Minimum number of resid apartment dwelling unit	ent parking spaces per three-bee	droom 1.3
4.15.5.48.9	Minimum number of park dwelling unit	ing spaces per grade related apa	rtment 1.3
4.15.5.48.10	Minimum number of visite dwelling unit	or parking spaces per apartment	0.1
4.15.5.48.11		parking structure completely be f external access stairwells, to an	
4.15.5.48.12	Minimum landscaped are	a	780 m ²
4.15.5.48.13	Minimum depth of a lands	scaped buffer abutting an OS1 z	one 4.5 m
4.15.5.48.14	Minimum central amenity	area	930 m ²
4.15.5.48.15	All site development plans of this Exception	s shall comply with Schedule RA	4-48



Schedule RA4-48 Map 08

Appendix B 2016 TTS Data Extraction

Mode of Transportation - AM Peak Period

Cross Tabulation Query Form - Trip - 2016 v1.1

Row: Primary travel mode of trip - mode_prime Column: 2006 GTA zone of household - gta06_hhld

Filters: Primary travel mode of trip - mode_prime In B and	С	D	G	J	М	Р	т	U	W
2006 GTA zone of household - gta06_hhld In 3642 and	3	647	3648	3877					
Start time of trip - start_time In 600-900 and									
Type of dwelling unit - dwell_type In 2									
Trip 2016									

Table:

Mode of Transportation/Traffic Zones	3642	3877	Total	Percentage
Transit excluding GO rail	170	220	390	11.1%
Auto driver	902	1455	2357	66.9%
GO rail only	0	211	211	6.0%
Joint GO rail and local transit	35	163	198	5.6%
Auto passenger	77	164	241	6.8%
Walk	10	116	126	3.6%
Total	1194	2329	3523	100%

Mode of Transportation - PM Peak Period

Cross Tabulation Query Form - Trip - 2016 v1.1

Row: Primary travel mode of trip - mode_prime Column: 2006 GTA zone of household - gta06_hhld

Filters:

Primary travel mode of trip - mode_prime In B	С	D		G	J	М	Р	т	U	W
and										
2006 GTA zone of household - gta06_hhld In 3642		3647	3648		3877					
and										
Start time of trip - start_time In 1600-1900										
and										
Type of dwelling unit - dwell_type In 2										

Table:

Mode of Transportation/Traffic Zones	3642	3877	Total	Percentage
Transit excluding GO rail	126	168	294	7.7%
Auto driver	698	1749	2447	63.8%
GO rail only	0	256	256	6.7%
Joint GO rail and local transit	35	187	222	5.8%
Auto passenger	65	206	271	7.1%
Paid rideshare	40	0	40	1.0%
Walk	0	303	303	7.9%
Total	964	2869	3833	100%

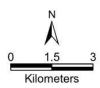
CITY OF MISSISSAUGA WARD 1

malatest





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WARD 1																		
HOUSEHOLD CHARACTERISTICS																		
	D١	welling Ty	/pe		Но	usehold S	Size		Ν	lumber o	f Availabl	e Vehicle	S		House	ehold Ave	erages	
Households	House	Townhouse	Apartment	1	2	ĸ	4	5+	0	1	2	3	4+	Persons	Workers	Drivers	Vehicles	Trips/Day
18,000	49%	7%	44%	31%	33%	16%	14%	6%	9%	40%	38%	10%	3%	2.3	1.4	1.8	1.6	5.1

	POPULATION CHARACTERISTICS																	
					Age					<u> </u>		Em	ployment T	уре				
Population		2	25	5	4		Median	aily Trips per rson (age 11+)	/ Work Trips pe Worker	Population	Full Time	Part Time	At Home	Student	Licensed	Transit Pass		
		-10	1-1	16-2	6-4	46-6	2+	led	Da Per	Daily	Male							
		0	1	1	2	4	9	2			20,700	49%	8%	4%	16%	78%	24%	
											Female							
	42,100	10%	5%	11%	26%	31%	17%	44.9	2.4	0.77	21,300	40%	9%	3%	19%	73%	24%	

				TF		DE BY RE	SIDENTS	OF CITY	OF MIS	SISSAUG	GA - WAF	RD 1				
Time		%		Trip	Purpose		Mode of Travel							/ledian Trip	Length (km)
Period	Tring	s 24hr	HB-W	HB-S	HB-D	N-HB	Driver	Pass.	Transit	GO Train	Walk & Cycle	Other	Driver	Pass.	Transit	GO Train
6-9 AM	22,400	24.5%	52%	14%	22%	12%	68%	10%	6%	8%	7%	2%	8.9	3.7	10.4	18.9
24 Hrs	91,200		34%	8%	41%	17%	72%	11%	5%	5%	5%	1%	6.7	4.0	7.5	18.9

			TRIPS	MADE	το ςιτι	OF MIS	SSISSAU	GA - WA	RD 1 - B'	Y RESIDE	NTS OF	THE TTS	AREA					
Time		% 24 hr		Trip Pu	urpose		Mode of Travel							Median Trip Length (km)				
Time _ Period	Trips		Work	School	Home	Other	Driver	Pass.	Transit	GO Train	Walk & Cycle	Other	Driver	Pass.	Transit	GO Train		
6-9 AM	24,600	24.2%	43%	28%	5%	24%	62%	17%	6%	*	7%	7%	7.9	5.0	5.9	*		
24 Hrs	101,600		18%	7%	37%	38%	71%	15%	5%	2%	5%	2%	6.1	4.5	6.3	18.8		