

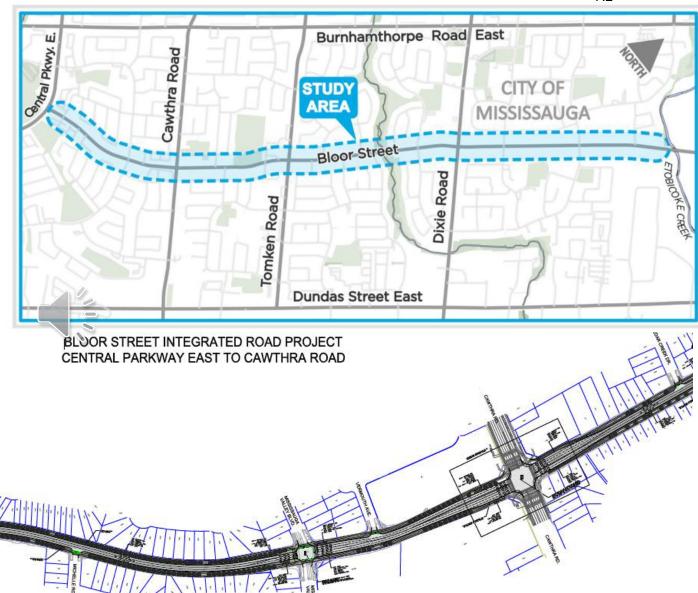
STUDY AREA -

The sensitivity analysis concluded that approximately 66% (2/3) of vehicles using Bloor Street during the AM and PM peak hours do NOT originate from or are destined to locations within the Bloor Street corridor within the study area.

Source: Corporate Report

"...study depth was 30 to 35 m (114 ft) from either side of Bloor Street".

Source: City Traffic Dept





CONSTRUCTION 2021-2030

Overlapping construction projects will increase congestion dramatically & heighten the anger of residents









		1	1		1		ı	ı	1	1
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Dundas BRT (Metrolinx)						East -West	t			Metrolinx on time?
Tomken						North-Sou	th			
Dundas Peel Pj 18-1310 C					East -West					
Bloor & Cawthra Sewer Pj#16-2300C2					East -West					
Bloor IP					East -West					
Burnhamthrope (Cawthra to Golden Orchard) Peel Pj 22-2254					East -West					
QEW (Cawthra to Etobicoke Ck)					East -West					
Dixie Road (N-South)		North -Sou	ıth							
Hurontario (Hazel McCallion Line)		North -Sou	ıth							
Burnhamthorpe (Widening to 6 lanes)										



Exhibit 3-5: Predictive Analysis - Overall Excess Collisions (2015 to 2019)

Location Type	Excess Collisions										
Location Type	Fatal/Injury	PDO	Total								
Intersection4	-1.72	16.87	15.15								
Midblock	-5.36	-6.48	-11.84								
Study Area Total	-7.08	10.39	3.32								

As shown in Exhibit 3-5:

- In terms of location type, the intersections within the study area are experiencing more PDO collisions than predicted by the models, while the midblock segments are experiencing fewer collisions than similar midblock segments;
- In terms of severity, the study area has comparatively good safety performance in terms
 of fatal and injury collisions. However, the study area does experience an excess of
 PDO collisions:

Memorandum to Jeffrey.Reid from Matt Colwill, IBI Group, April 2022.

*PDO =Property Damage only

 For the 2041 PM Pk Hr - Bloor St 2 Lanes, Burnhamthorpe Rd 4 Lanes and Dundas St 4 Lanes the model is forecasting volumes approaching Cawthra experiences the highest capacity constraints as this area experiences the highest volume increases between 2016 and 2041 scenar

Volume to Capacity Ratios

volume to Capacity Ratios		
	2041 PM Pk Hr - Bloor St 2 Lanes, Bu	rnhamthorpe Rd 4 Lanes, Dundas 4
	Lan	es
	EB	WB
Burnhamthorpe Rd East of Dixie Rd	0.64	0.65
Bloor Rd East of Dixie Rd	0.88	0.77
Dundas St East of Dixie Rd	0.84	0.97
Total	0.76	0.80
Burnhamthorpe Rd East of Tomken Rd	0.56	0.76
Bloor Rd East of Tomken Rd	0.52	0.63
Dundas St East of Tomken Rd	0.48	0.73
Total	0.52	0.73
Burnhamthorpe Rd West of Cawthra Rd	0.80	1.05
Bloor Rd West of Cawthra Rd	0.81	1.03
Dundas St West of Cawthra Rd	0.73	0.93
Total	0.77	1.00

From: To: Subject: Date: Norbert Orzel Jeffrey Reid

Bloor St Integrated Program - V/C Ratios for Screenlines Thursday, October 6, 2022 4:12:09 PM

For the 2041 PM Pk Hr - Bloor St 2 Lanes,
Burnhamthorpe Rd 4 Lanes and Dundas St 4 Lanes the
model is forecasting volumes approaching and
exceeding capacity across the three screenlines,
specifically in the WB direction. The screenline West of
Cawthra experiences the highest capacity constraints as
this area experiences the highest volume increases
between 2016 and 2041 scenarios.



Lanes, Volumes, Timings
6: Bloor Street & Cawthra Rd

AM Peak Period
09-09-2021

EDI EDT EDD MOI MOT MOD NOI NOT NOO COI COT COO

Total Split (s)
Total Split (%)
Maximum Green (s)
Yellow Time (s)
All-Red Time (s)
Lost Time Adjust (s)
Total Lost Time (s)
Lead/Lag
Lead-Lag Optimize'

Vehicle Extension (s

Walk Time (s)

Appendix B - Synchro Outputs

MOE Reports SimTraffic Reports

Approach LOS		Е			Е			Е		D	
Approach Delay		69.0			60.3			55.2		49.2	
LOS	D	F	D	F	D	В	Е	D	F	D	Α
Total Delay	38.8	85.1	42.6	113.0	51.1	10.9	78.2	53.5	91.4	46.7	0.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay	38.8	85.1	42.6	113.0	51.1	10.9	78.2	53.5	91.4	46.7	0.6
v/c Ratio	0.39	0.96	0.67	1.04	0.41	0.30	0.86	0.94	0.93	0.89	0.06
Actuated g/C Ratio	0.32	0.22	0.24	0.37	0.26	0.27	0.53	0.45	0.57	0.47	0.48
Act Effct Green (s)	50.5	35.7	37.7	59.6	40.8	42.8	85.4	72.4	91.4	75.4	77.4
Pedestrian Calls (#/hr)		1	1		14	14		0		1	1
Flash Dont Walk (s)		13.0	13.0		13.0	13.0		14.0		14.0	14.0
Train Time (o)											

Intersection Summary
Area Type: Other
Cycle Length: 160
Actuated Cycle Length: 160
Offset: 134 (84%), Referenced to phase 2:

Offset: 134 (84%), Referenced to phase 2:NB Natural Cycle: 110 Control Type: Actuated-Coordinated Maximum v/c Ratio: 1 04

Intersection Signal Delay: 57.2 Intersection Capacity Utilization 107.1% Analysis Period (min) 15

Intersection Summar	y
---------------------	---

Area Type: Other

Cycle Length: 160

Actuated Cycle Length: 160

Offset: 134 (84%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green

Natural Cycle: 110

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.04

Intersection Signal Delay: 57.2

Intersection Capacity Utilization 107.1%

Arterial Level of Service PM Peak Period .2

Arterial Level of Service: EB Bloor Street

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(km)	Speed	LOS
Mississauga Valley B	III	50	49.2	4.6	53.8	0.62	41.7	В
Cawthra Rd	III	50	28.8	71.8	100.6	0.37	13.1	F
Rymal Rd	III	50	28.5	7.1	35.6	0.36	36.5	C
Tomken Rd	III	50	38.0	13.9	51.9	0.48	33.4	С
Private Driveway	III	50	42.6	8.4	51.0	0.54	38.1	C
Golden Orchard Dr	III	50	34.5	2.8	37.3	0.44	42.2	В
Dixie Road	III	50	23.7	61.7	85.4	0.30	12.7	F
Havenwood Dr	III	50	26.7	5.5	32.2	0.34	37.8	C
1560 Bloor Street	III	50	22.5	0.3	22.8	0.29	45.1	В
Fieldgate Dr	III	50	22.5	13.0	35.5	0.28	28.9	С
1750 Bloor Street	III	50	17.1	0.2	17.3	0.20	40.7	В
Bridgewood Dr	III	50	18.0	2.9	20.9	0.22	37.3	С
Total	III		352.1	192.2	544.3	4.43	29.3	С

Arterial Level of Service: WB Bloor Street

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arteria
Cross Street	Class	Speed	Time	Delay	Time (s)	(km)	Speed	LOS
Bridgewood Dr	III	50	18.8	4.4	23.2	0.23	34.9	C
1750 Bloor Street	III	50	18.0	0.3	18.3	0.22	42.6	E
Fieldgate Dr	III	50	17.1	49.0	66.1	0.20	10.7	F
1560 Bloor Street	III	50	22.5	0.4	22.9	0.28	44.8	E
Havenwood Dr	III	50	22.5	6.5	29.0	0.29	35.5	C
Dixie Road	Ш	50	26.7	70.5	97.2	0.34	12.5	F
Golden Orchard Dr	III	50	23.7	6.0	29.7	0.30	36.5	C
Runningbrook Dr	III	50	34.5	16.7	51.2	0.44	30.7	C
Tomken Rd	III	50	42.6	34.1	76.7	0.54	25.4	D
Rymal Rd	III	50	38.0	41.0	79.0	0.48	21.9	E

Existing PM 2:42 pm 06-02-2021 PM Peak Period

Synchro 11 Report Page 1

06-16-2023

Intersection LOS: E

ICU Level of Service G



3 LANE ROAD DIET – PEAK HOUR PER DIRECTION

A peak hour volume below 750 vehicles per hour per direction (phpd) is likely feasible for a 3-lane road diet. Peak hour volumes between 750 to 875 vehicles phpd should be reviewed cautiously. U.S. DEPARTMENT OF TRANSPORTATION

Source: Aguitaine Avenue Road Safety Pilot 2023 PDF

IBI GROUP TRAFFIC REPORT BLOOR STREET INTEGRATED ROAD EA Prepared for City of Mississauga

Appendix A – Traffic Data

Turning Movement Counts Lane Configurations Volumes Diagram

October 1, 2021



Traffic Analysis

AADT less than 20,000 vehicles per day show minimal or no increase in traffic congestion with a 4-lane to 3-lane road diet conversion.

A peak hour volume below 750 vehicles per hour per direction (phpd) is likely feasible for a 3lane road diet. Peak hour volumes between 750 to 875 vehicles phpd should be reviewed cautiously.

U.S. DEPARTMENT OF TRANSPORTATION FHA



Location...... BRIDGEWOOD DR @ BRIDGEWOOD DR

Municipality..... Mississauga

Road 1 BRIDGEWOOD DR Road 2 BLOOR ST

Count Date...... Tuesday, February 12, 2013

			Nort	th Appr	oach			South /	Approa	ch			East	Approa	ich			West	Approa	ach	74
Time Peri	iod	LT	TH	RT	Heavy	TOT	LT	TH	RT	Heavy	TOT	LT	TH	RT	Heavy	TOT	LT	TH	RT	Heavy	TOT
07:00 07:	:15	8	0	3	1	11	6	1	8	1	15	1	58	1	3	60	1	135	6	5	142
07:15 07:	:30	4	1	3	0	8	15	1	11	2	27	3	65	4	6	72	2	222	5	7	229
07:30 07:	:45	8	2	7	1	17	9	1	18	2	28	5	63	7	1	75	1	275	6	12	282
07:45 08:	:00	7	1	12	2	20	7	3	15	1	25	1	103	7	5	111	3	301	2	6	30 6
08:00 08:	:15	- 6	1	8	1	15	7	3	3	0	13	2	114	13	5	129	6	216	- 6	6/	228

Location...... BLOOR ST @ CEDAR CREEK DR

Municipality..... Mississauga

Road 1 CEDAR CREEK DR Road 2 BLOOR ST

Count Date...... Tuesday, October 08, 2019

			Nort	th Appr	oach		South Approach							Approa	ch			West Approach				
Time F	Period	LT	TH	RT	Heavy	TOT	LT	TH	RT	Heavy	TOT	LT	TH	RT	Heavy	TOT	LT	TH	RT	Heavy	TOT	
07:00	07:15	8	0	2	1	10	0	0	0	0	0	1	79	0	11	80	2	112	0	6	114	
07:15	07:30	6	0	2	0	8	0	0	0	0	0	0	94	3	6	97	0	132	0	6	132	
07:30	07:45	11	0	10	0	21	0	0	0	0	0	0	129	13	8	142	0	207	0	9	207	
07:45	08:00	14	0	13	0	27	0	0	0	0	0	0	197	9	9	206	3	330	0	12	333	
08:00	08:15	11	0	9	0	20	0	0	0	0	0	1	201	19	7	221	3	277	0	15	280	
08:15	08:30	18	0	8	0	26	0	0	0	0	0	0	153	11	6	164	4	236	0	11	240	
08:30	08:45	13	0	7	0	20	0	0	0	0	0	0	157	11	5	168	6	226	0	-11	232	
08:45	09:00	21	0	8	0	29	0	0	0	0	0	0	149	7	4	156	7	243	0	11	250	
11:00	11:15	2	0	1	0	3	0	0	0	0	0	0	88	8	5	96	2	75	0	5	77	
11:15	11:30	3	0	0	1	3	0	0	0	0	0	0	105	1	3	106	1	101	0	8	102	
11:30	11:45	4	0	3	1	7	0	0	0	0	0	0	118	9	7	127	4	109	0	4	113	
11:45	12:00	2	0	2	0	4	0	0	0	0	0	0	103	5	8	108	6	120	0	5	126	
12:00	12:15	7	0	9	0	16	0	0	0	0	0	0	112	3	4	115	2	137	0	8	139	
12:15	12:30	1	0	2	1	3	0	0	0	0	0	0	133	7	2	140	5	130	0	8	135	
12:30	12:45	5	0	2	3	7	0	0	0	0	0	0	114	8	8	122	4	95	1	5	100	
12:45	13:00	3	0	9	0	12	0	0	0	0	0	0	120	12	9	132	3	132	0	9	135	
13:00	13:15	3	0	6	0	9	0	0	0	0	0	1	110	9	11	120	7	111	1	7	119	
13:15	13:30	5	1	5	0	11	0	0	2	0	2	0	121	10	10	131	9	129	0	6	138	
13:30	13:45	7	0	3	0	10	0	0	5	0	5	0	114	6	10	120	6	121	0	13	127	
13:45	14:00	5	0	6	0	11	0	0	0	0	0	0	126	9	7	135	11	128	1	10	140	
15:00	15:15	7	0	4	1	11	0	0	0	0	0	0	138	16	8	154	0	116	0	9	116	
15:15	15:30	2	0	1	0	3	0	0	0	0	0	0	177	16	10	193	2	133	0	15	135	
15:30	15:45	12	0	18	4	30	0	0	0	0	0	0	181	8	7	189	3	127	0	8	130	
15:45	16:00	6	0	10	0	16	0	0	0	0	0	0	263	19	11	282	6	162	0	4	168	
16:00	16:15	3	0	5	2	8	0	0	0	0	0	1	233	19	14	253	0	112	0	6	112	
16:15	16:30	6	0	10	0	16	0	0	0	0	0	0	318	12	9	330	2	117	0	1	119	
16:30	16:45	5	0	6	0	11	0	0	0	0	0	0	432	17	7	449	4	192	1	8	197	
16:45	17:00	4	0	9	0	13	0	0	0	0	0	0	414	17	19	431	3	145	0	7	148	
17:00	17:15	4	0	5	0	9	0	0	0	0	0	1	415	15	12	431	1	148	0	8	149	
17:15	17:30	4	0	5	0	9	0	0	0	0	0	0	404	11	12	415	5	139	0	6	144	
17:30	17:45	5	0	6	0	11	0	0	0	0	0	0	418	14	1	432	4	148	0	7	152	
17:45	18:00	6	0	1	0	7	0	1	0	0	1	0	387	9	1 1	396	7	153	0	0	160	
Total		213	1	187	14	401	0	1	7	0	8	5	6303	333	274	6641	122	4843	4	248	4969	

7:00am to 8:00am

West Approach total: 959

5:00 pm to 6:00 pm East approach total:

1674

7.2

Memorandum

To/Attention City of Mississauga Date April 5, 2022

From Zibby Petch, IBI Group Project No 134154

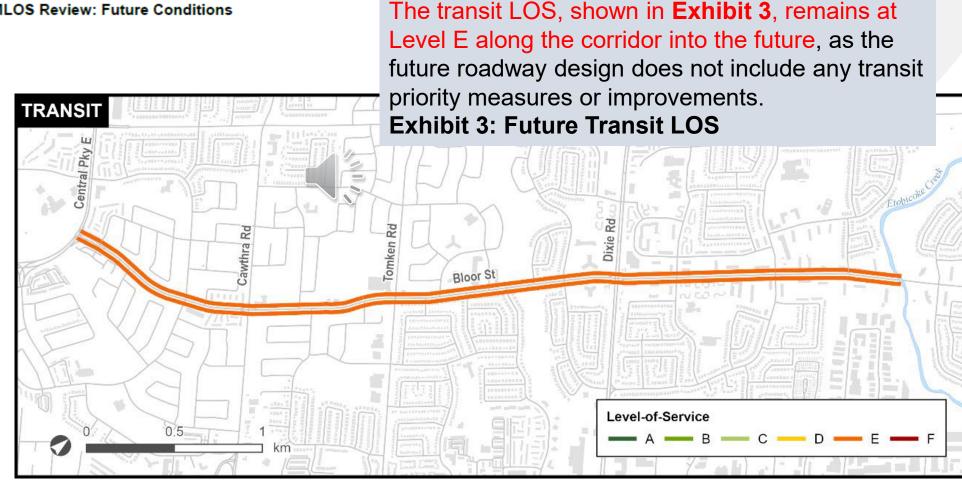
cc Margaret Parkhill, Scott Johnston

Subject Bloor Street MMLOS Review: Future Conditions

The purpose of this memorandum is to summarize the Multi-Modal Level of Service (MMLOS) evaluation of future conditions along the corridor compared to targets set for each mode in a September 2021 memorandum.

Levels of Service Conclusions: Cyclists w separated track = A Pedestrians = C

Transit = E



SUSTAINABLE URBAN MOBILITY PLANNING FOR MISSISSAUGA



Supervised Research Project, June 2020

Submitted in partial fulfillment of the Master of Urban Planning degree, School of Urban Planning, McGill University

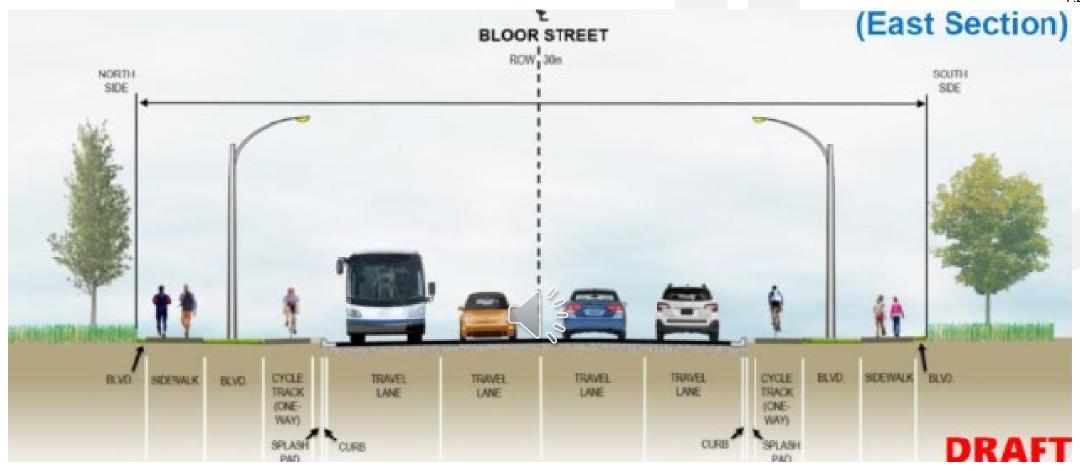
Submitted by - Yathartha Singh; Supervised by - Ahmed El-Geneidy

Recommendations and Policy relevance

It is recommended that Mississauga increase the presence and frequency of transit services and consider providing feeder services to GO stations in the identified intervention areas. This study finds that, to minimize the usage of cars, transit services are not the only consideration. Transit must be complemented with improvements in zoning, land use, employment density, and population density.

The transit LOS, shown in **Exhibit 3**, remains at Level E along the corridor into the future, as the future roadway design does not include any transit priority measures or improvements.





Thank you