City of Mississauga

2009 DEVELOPMENT CHARGES UPDATE TRANSPORTATION BACKGROUND STUDY

FINAL REPORT

May 2009

MRC

A member of MMM GROUP

Global Transportation Engineering

TABLE OF CONTENTS

Page

1. INTRODUCTION 1
2. ROAD INFRASTRUCTURE COSTING METHODOLOGY 1
2.1 Unit Prices 1
2.2 Road Construction Benchmark Costs 1
2.3 Other Road Related Construction Items 4
3. ROAD NETWORK SERVICE LEVEL 7
3.1 Measuring Road Service Level 7
3.2 Vehicles per Lane 7
3.3 Lane Kilometre per Population and Employment 8
3.4 10 Year Historical Road Infrastructure Value 8
3.5 Forecast Year 2031 Service Levels 9
3.5.1 Year 2031 24 Hour Average Vehicles per Lane 9
3.5.2 Year 2031 Lane Kilometres Per Population and Employment 10
3.5.3 Findings of Service Level Analysis 11
3.6 Forecast 2031 Road Infrastructure 11
3.6.1 Road Transportation Infrastructure Costing 11
3.6.2 Structures and Culverts 13
3.6.3 Grade Separation Costs 14
3.6.4 Stand Alone Signals and Intersection Improvements 14
3.6.5 Transit Priority Measures 14
3.6.6 Growth / Non-Growth Cost Sharing 15
3.7 Final Road Infrastructure Costs 15
4. SUMMARY 16

LIST OF TABLES

Table 1: Road Construction Benchmark Costs (per km) 2
Table 2: Basic Construction Adjustment Factors 2
Table 3: Other Road Infrastructure Unit Prices 6
Table 4: 10-Year Historical Average Vehicles per Lane 7
Table 5: 10-Year Historical Lane-Kilometres per Population and Employment 8
Table 6: 10 Year Historical Road Infrastructure Value 9
Table 7: 10-Year Historical Average Vehicles per Lane 10
Table 8: Forecast Lane-Kilometres per Population and Employment 11
Table 9: Roads Service Level Summary 11
Table 10: Road Infrastructure Cost Estimates 13
Table 11: Proposed Rail Grade Separations 14
Table 12: Preliminary Road Infrastructure Cost Estimates 16

APPENDICES

Appendix A - Road Infrastructure Costing Analysis

Appendix B - Roadway Service Level Analysis

Appendix C – Historical Infrastructure Inventory

Appendix D - Road Infrastructure Improvements

Appendix E - Growth / Non-Growth Cost Sharing Assumptions

File: W:\7k\7466 Mississauga, 2009 Dev. Charges Study\7466.500 Transport\Reports\7466mw-Mississauga Development Charges Transportation Background Study-final report may 14 2009.doc

1. INTRODUCTION

The City of Mississauga Transportation and Works Department retained McCormick Rankin Corporation to assist in the development of the transportation infrastructure component of the Development Charges By-law that must be prepared in accordance with the 1997 Development Charges Act (Bill 98) and the implementing Regulation. The study was directed by a working committee comprised of senior staff members from the following departments:

- City of Mississauga Transportation and Works Department
- City of Mississauga Corporate Services Department

The purpose of the study was to identify the City's future infrastructure requirements and implementation costs for the city-wide major road network, which consists of arterial and major collector roadways. The portion of the required transportation infrastructure program and costs that are attributed to new development were identified based on specific costing principles adopted by the Working Committee. The costing principles used in this analysis are similar to those used previously in the 1999 and 2004 City of Mississauga Development Charges Update studies.

2. ROAD INFRASTRUCTURE COSTING METHODOLOGY

2.1 Unit Prices

Unit prices for basic construction items such as asphalt, granular A and B, excavation, curb and gutter, etc. from actual City of Mississauga road widening and construction contracts tendered between 2004 and 2008 were reviewed in order to determine appropriate unit prices that are reflective of current conditions and trends. Several alternate approaches for calculating average unit prices were reviewed including a 5-year weighted average and a series of 3-year moving averages from 2004 to 2008.

The unit prices for each contract were increased by the construction index to reflect 2008 prices. On average, unit prices remained relatively consistent from 2004 to 2008. At least 5 contracts were reviewed from each year (2004 to 2008) which was considered adequate to be representative of the contracts awarded in the past 5 years. Therefore, based on our review of contracts awarded between 2004 and 2008 and the alternative costing approaches that were considered, it was recommended that a 5-year (2004 to 2008) weighted average approach be used to determine unit prices for use in the development charges program.

2.2 Road Construction Benchmark Costs

The road construction costs were estimated on a per km basis using recent unit prices and the City's design standards for road widening and reconstruction projects as shown in Table 1.

Table 1: Road Construction Benchmark Costs (per km)

Road Improvement Type	2004 DC Costs	2009 DC Costs	Difference	
			Total Difference	% increase
New Construction				
2 Lane	$ 1,071,000	$ 1,670,000	$ 599,000	56%
4 Lane	$ 1,419,000	$ 2,223,000	$ 804,000	57%
6 Lane	$ 1,767,000	$ 2,777,000	$ 1,010,000	57%
Reconstruction				
2 Lane	$ 1,083,000	$ 1,732,000	$ 649,000	60%
4 Lane	$ 1,428,000	$ 2,281,000	$ 853,000	60%
6 Lane	$ 1,773,000	$ 2,830,000	$ 1,057,000	60%
Road Widening				
2-4 Lane	$ 1,141,000	$ 1,686,000	$ 545,000	48%
4-6 Lane	$ 1,249,000	$ 1,834,000	$ 585,000	47%
2-6 Lane	$ 1,658,000	$ 2,492,000	$ 834,000	50%

The costs shown in Table 1 reflect the cost for construction from curb to curb and do not include bridges, culverts, traffic signals, sidewalk, illumination, noise wall, utility relocation, etc.

The road construction per km costs include adjustment factors that account for basic construction items, miscellaneous items and engineering costs as shown in Table 2 as well as intersection tie-in costs. These adjustment factors were included in each project cost estimate that is included in the development charges program unless a detailed costing analysis was carried out for the project.

Table 2: Basic Construction Adjustment Factors

	Basic Construction	Engineering	Miscellaneous
Road Widening	15%	19%	22%
Reconstruction	-	19%	-
New Construction	10%	10%	-

Basic Construction Adjustment Factor

The adjustment for basic construction items was applied only to road widenings (15%) and new construction (10%) and represents many of the possible construction items that can vary from project to project. The following items were accounted for through a program wide adjustment factor rather than using a detailed costing analysis of each project:

- Larger than typical storm sewer and catch basin requirements
- grading and boulevard sodding
- boulevard splash pads

- base repairs and milling on more than 10% of existing road surface
- test holes
- relocation of street signs
- traffic control (signs, temporary delineation, barriers, flag persons, etc)
- permanent pavement markings
- dust control

A basic construction adjustment factor was not used for reconstruction projects since our costing methodology, which reflects new construction costs and techniques, assumes that the existing road is completely excavated. Since some components of the existing road are normally salvaged during most reconstruction projects, our reconstruction benchmark costs do not need any further adjustments.

Engineering Adjustment Factor

The 19% engineering adjustment for road widenings and reconstruction reflects the costs associated with the following activities:

10% - functional planning, detail design, tendering, and contract administration

5% - survey, geological investigations, and disbursements

4% - inspection, monitoring, testing, and disbursements

The engineering adjustment factor does not include the costs of undertaking Environmental Assessment (EA) studies. The costs of EA studies have been estimated based on 1.5% of the value of the road and grade separation program.

Miscellaneous Adjustment Factor

A miscellaneous adjustment of 22% was applied to road widening projects only. The purpose of this factor is to address the additional costs associated with widening a road in an established area that could result in significant impacts on existing properties and road access points. The miscellaneous adjustment factor addresses the following:

- restoration of driveway entrances
- restoration of cross and side street culverts
- boulevard restoration
- restoration of fencing
- relocation of fire hydrants
- water valve adjustments
- unknown utility relocations
- reinstatement of landscaping on private properties resulting from accidental damage

- excavation in excess of typical depths
- excavation through rock
- lighting for night time work
- other unforeseen items encountered during construction

Intersection Tie-in Costs

The road construction benchmark costs reflect a continuous mid-block road cross-section and do not address the additional costs associated with tying into existing intersections including the reconstruction of turn lanes. A detailed review of the intersection tie-in requirements for the roads within the development charge program was carried out to assess the number of minor and major intersection tie-ins that will be required. An average cost of $454,000 per km was calculated for intersection tie-ins based on a cost of $181,400 for a tie in to a minor road and $ 215,260 for a tie in to a major road.

2.3 Other Road Related Construction Items

The benchmark costs were used to calculate the basic "curb to curb" road improvement costs. In order to address the total cost of road construction, costs for the following items were included for each construction project in the roads program. The unit prices for each of these items are summarized in Table 3.

Traffic Signals

The location of all traffic signals in Mississauga owned by the City of Mississauga, the Region of Peel and the Ministry of Transportation in 2008 as well as the proposed future installations was provided by City staff. The unit price of $200,000 - $225,000 per intersection was developed based on recent contracts for signal installations within the GTA. An average cost per kilometre was calculated based on the number of existing and new signals within the roads program.

Structures

A database of the City of Mississauga's bridges and culverts as well as aerial photography was used to determine the total deck area of the existing and proposed roadway structures within the City of Mississauga. The structures were subdivided into categories based on the size of the structure. The unit prices for bridges and culverts were estimated by staff in the McCormick Rankin structures department.

Noise Barriers

The costs for concrete noise barriers was estimated by increasing the unit price used in the 2004 Development Charges Study by the construction index.

Sidewalks

The unit costs for removal and replacement of sidewalk are based on a sidewalk width of 1.5m.

Illumination

The cost for illumination per kilometre was developed based on the average spacing of luminaires in 2008. In 2008 the City of Mississauga owned over 10,500 luminaires on City poles and approximately 3,500 luminaires on Hydro Poles spaced along all the major collector and arterial roadways. The McCormick Rankin electrical department and the City of Mississauga estimated a city pole luminaire to be $6,310 per pole and a hydro pole luminaire to cost $3,050 per pole.

Landscaping

The landscaping component of the infrastructure inventory includes tree planting along all major collectors and arterials. It is assumed that one tree would be planted every 10m of frontage on both sides of the street. The cost of $350 per tree resulted in a total cost of $70,000 per centreline kilometre of roadway.

Rail Grade Separations

The proposed rail grade separations and individual cost estimates were provided by the City of Mississauga. The cost estimates for each grade separation are site specific and depend on the number of tracks, width of the roadway, and adjacent property constraints and typically range between $10 M and $20 M each.

At-Grade Rail Crossings

The cost of at-grade rail crossings was estimated by staff in the McCormick Rankin transit department based on recent contracts within the GTA.

Special Items

The special Item category includes several construction items that may not be present on every road project including Concrete Median, Centre Turn Lanes and Left Turn Lanes. The unit prices for basic construction items and the City of Mississauga design standards were used to estimate the construction costs of turn lanes and medians.

Bicycle Facilities

The unit price for the construction of bicycle facilities was provided by the City of Mississauga.

Zebra Striped Crosswalks

The zebra-striped crosswalks program was implemented in 2006 in high pedestrian areas to improve safety. A unit price of $7,500 per intersection was provided by the City of Mississauga.

Road Right-of-Way Property

The value of the road right-of-way was estimated based on recent sales contracts throughout the City of Mississauga for residential, industrial and commercial properties. The value of all other land was assumed to be the average of the residential, commercial and industrial property values.

Table 3: Other Road Infrastructure Unit Prices

Infrastructure Items	Unit Price
TRAFFIC SIGNALS	
New Intersection	$ 200,000 / Int.
Existing Intersection	$ 225,000 / Int.
STRUCTURES	
A – Bridge Widening	
Small Bridges (<150m^2)	$ 11,960 – 14,350 / m^2
Medium Bridges (150m^2 – 500m^2)	$ 8,970 – 10,765 / m^2
Medium Bridges (500m^2 – 900m^2)	$ 8,075 – 9,690 / m^2
Large Bridges (>900m^2)	$ 5,980 – 7,175 / m^2
B – Bridge Construction	$ 3,640 / m^2
C – Culverts	$ 6,000 / m^2
NOISE BARRIER	$ 585 / m
SIDEWALKS	$ 71,340 / Km
ILLUMINATION	$ 215,000 / CTL Km
LANDSCAPING/TREE PLANTING	$ 70,000 / CTL Km
RAIL CROSSINGS	
A - Rail Grade Separations	$10M - $20M ea.
B - At-Grade Crossings	
Signal Relocation	$ 300,000 / location
Padding Per Track	$ 150,000 / track
SPECIAL ITEMS	
Median Boulevard	$ 406,000 / Km
Raised Median	$ 155,000 / Km
Retaining Wall	$ 207,000 / Km
Resurface Existing Centre Turn Lane	$ 50,000 / Km
Centre Turn Lanes	
Road Widening	$ 576,000 / Km
New Construction	$ 395,000 / Km
BICYCLE FACILITIES	
A - On-road Bicycle Lanes	
As part of a road reconstruction project	$ 550,000 / Km
Widening for Bicycle lanes only	$ 1,200,000 / Km
B - Boulevard Trails	$ 360,000 / Km
C - Sharrows	$ 7,500 / Km
D - Lane Conversion	
For Bike Lanes (4 Lanes to 3 Lanes)	$ 40,000 / Km
For Sharrows (4 Lanes to 4 Lanes)	$ 40,000 / Km
E - Signed Route	$ 2,000 / Km
F - Bike Lanes on road with only centre line	$ 20,000 / Km
HYDRO & UTILITY RELOCATION	
Minor Utilitiy Relocation	$ 117,000 / Km
Major Utility Relocation	$ 234,000 / Km
Major Hydro Relocation	$ 266,000 / Km
ZEBRA STRIPED CROSSWALKS	$ 7,500 / Int.
RIGHT-OF-WAY PROPERTY	
Residential	$ 271.82 / m^2
Commercial	$ 247.11 / m^2
Industrial	$ 210.04 / m^2
Other	$ 247.11 / m^2

3. ROAD NETWORK SERVICE LEVEL

3.1 Measuring Road Service Level

The *Act and Regulations* require that analysis be undertaken to determine the average service level that has been provided over the last 10 years and that the service level that is applied to future growth can not exceed the 10 year historical average. The road service level methodologies that utilize Average Vehicles per Lane and Lane-kilometres per Population and Employment that have been used in past development charges studies have been used to provide justification for the proposed growth related roads program. An additional road service level methodology is being utilized in the current development charges study that incorporates a total value for all road related infrastructure.

3.2 Vehicles per Lane

The vehicle per lane service level measure consists of determining the average daily vehicles per lane for the major road system over the past 10 years. This approach utilizes traffic databases compiled by the City that include daily traffic counts by major road section on arterial and major collector roads under the jurisdiction of the City for each year from 1999 to 2008.

The traffic data when combined with number of lanes and length of each road section was used to calculate the daily vehicle kilometres travelled and lane kilometres for each road section. The vehicle km and lane km totals for the entire road network were used to calculate the average daily traffic per lane for each of the analysed years over the past 10 years. The average 10 year historical service level was established by averaging the service levels of the individual years. A similar approach was used to calculate the average vehicle per lane service level measure as part of the City's last development charge update in 2004. The 10-year historical average vehicles per lane is shown in Table 4.

Table 4: 10-Year Historical Average Vehicles per Lane

Year	Lane KM	Vehicle KM	Average Vehicle / Lane
1999	1,263	6,745,547	5,342
2000	1,267	6,857,868	5,413
2001	1,302	7,121,552	5,472
2002	1,305	7,578,372	5,809
2003	1,336	7,656,468	5,730
2004	1,338	7,696,197	5,751
2005	1,341	7,850,576	5,855
2006	1,351	7,916,507	5,859
2007	1,357	8,117,451	5,983
2008	1,373	8,279,800	6,029
Average	**1,323**	**7,582,034**	**5,730**

3.3 Lane Kilometre per Population and Employment

A second measure was used to assess the 10-year historical service level for the City's arterial and major collector road network that consists of measuring lane km per population and employment. As with the vehicles per lane measure, the lane km per population and employment measure is based on determining the 10-year historical average lane km per population and employment for the major road system for each year between 1999 and 2008 using the City's population and employment totals for the respective years. The 10-year historical lane kilometres per population and employment is presented in Table 5.

Table 5: 10-Year Historical Lane-Kilometres per Population and Employment

Year	Lane KM	Population	Employment	Pop. + Emp.	Lane KM Per Pop. & Emp.
1999	1,263	584,529	348,117	932,646	1.35
2000	1,267	598,559	364,776	963,335	1.32
2001	1,302	612,925	382,232	995,157	1.31
2002	1,305	623,667	391,463	1,015,130	1.29
2003	1,336	634,597	400,917	1,035,514	1.29
2004	1,338	645,718	410,599	1,056,317	1.27
2005	1,341	657,034	420,515	1,077,549	1.24
2006	1,351	668,549	430,671	1,099,220	1.23
2007	1,357	676,023	435,282	1,111,305	1.22
2008	1,373	683,581	439,972	1,123,553	1.22
Average	**1,323**	**638,518**	**402,454**	**1,040,973**	**1.27**

3.4 10 Year Historical Road Infrastructure Value

An inventory of the City of Mississauga's infrastructure for each year between 1999 and 2008 was compiled to calculate the historical average road infrastructure value. The historical road infrastructure value on a per population and employment basis can be used to determine the maximum growth related funding envelop that would be permitted based on planned future population and employment growth to 2031. The existing right-of-way for all major collector and arterial roads in Mississauga was inventoried from mapping provided by the City. The land component of all concession roads (20 m) that were in existence prior to the creation of the City of Mississauga in 1974 were removed to establish the inventory of all road ROW acquired for the purpose of urbanization and accommodating growth.

The property types were determined from a combination of aerial photography and the City of Mississauga Official Plan. The total land value was estimated based on recent sales contracts throughout the City of Mississauga for residential, industrial and commercial properties. The value of all other land use types was assumed to be the average of the residential, commercial and industrial property values. The infrastructure items included in the inventory are as follows:

- Roadways (curb to curb)

- traffic signals (signal relocation assumes cost for temporary signals)
- bridges and culverts (widening and new construction)
- noise attenuation barriers (noise wall)
- Sidewalks (road widening includes cost of sidewalk removals)
- Illumination
- landscaping / tree planting
- rail grade separations
- Zebra Stripped Crosswalks
- Concrete Medians
- Centre Turn Lanes
- Left Turn Lanes
- Bicycle facilities within curb to curb
- Bicycle facilities on boulevards
- Property ROW

The average 10-Year historical road infrastructure value is shown in Table 6.

Table 6: 10 Year Historical Road Infrastructure Value

Year	Road Infrastructure Value ($ Millions)
1999	3,838.6
2000	3,852.0
2001	3,929.0
2002	3,939.4
2003	3,991.4
2004	3,996.7
2005	4,012.4
2006	4,020.7
2007	4,028.4
2008	4,049.7

The 10-year historical road infrastructure value was used to establish the maximum allowable growth related funding envelope which is addressed in the Development Charges Background Study report prepared by Hemson Consultants.

3.5 Forecast Year 2031 Service Levels

3.5.1 Year 2031 24 Hour Average Vehicles per Lane

The future average vehicles per lane road service level was determined using forecast traffic from the City's travel demand model factored to 24 hour volumes and using the future required number of lanes for each road section. Year 2031 forecast AM peak

hour traffic for both directions of travel was extracted for the arterial and major collector road network from the City travel demand model. The peak hour volumes were expanded to reflect 24 hour traffic based on a peak hour factor to 24 hour factor of 7.5%.

The total lane kilometres for the major road network were calculated based on the required number of lanes and length of each road section. The average vehicles per lane for the forecast 2031 and Growth Portion Only were calculated based on the total forecast vehicle kilometres travelled and the total future lane kilometre as shown in Table 7. The Growth Only calculation reflects the growth related component of the future vehicle kilometres and lane kilometres as extracted from the City's travel demand model.

Table 7: 10-Year Historical Average Vehicles per Lane

Year	Lane Km	Vehicle Km	Average Vehicles/Lane
Average 10-Year Historical	1,323	7,582,034	5,730
Growth Only	190	1,834,862	9,672
Forecast 2031	1,563	10,114,662	6,471

The results of the Average Vehicle per Lane service level analysis indicate the following:

- the average vehicles per lane is forecast to increase over the next 23 years
- the future major road network will be more congested in the future than it has been over the past 10 years
- the service level for the Growth Portion Only is forecast to be worse than the historical 10- year average
- the road service level is forecast to deteriorate over the next 23 years

The detailed vehicle kilometre and lane kilometre data used to calculate the 2008 and 2031 service levels are included in Appendix B.

3.5.2 Year 2031 Lane Kilometres Per Population and Employment

The future lane kilometres per population and employment service level was calculated using the forecast lane kilometres, population, and employment for the year 2031. The future lane kilometres per population and employment measure was expressed in terms of total future (existing plus growth) and growth only. The total future analysis includes all future road infrastructure, population and employment; while the Growth Portion Only measure is based on additional lane kilometres required to meet the future population and employment growth forecast between 2008 and 2031. The forecast lane kilometres per population and employment service levels are presented in Table 8.

Table 8: Forecast Lane-Kilometres per Population and Employment

Year	Lane Km	Population	Employment	Pop. & Emp.	Lane Km /1000 Pop. & Emp.
Average	1,323	638,518	402,454	1,040,973	1.27
Growth Only	190	128,419	79,028	207,447	0.91
Forecast 2031	1,563	812,000	519,000	1,331,000	1.17

The Lane km per Population and Employment service level assessment shows that the service level is forecast to deteriorate (decreasing lane km per population and employment) over the next 23 years.

3.5.3 Findings of Service Level Analysis

The results of the 10-year historical and forecast Year 2031 service level analysis using vehicles per lane and lanes per population and employment both indicate that the service levels are forecast to deteriorate over the next 23 years.

As shown in Table 9, the service level of the City's major road network is forecast to deteriorate by 6% based on the average 24 hour vehicles per lane measure and by 17% based on growth only lane kilometre per population and employment service level measure. It should be noted that the traffic data that was used to establish the average 10-year historical roads service level includes truck traffic, while the forecast 2031 traffic forecasts from the City's model does not.

Table 9: Roads Service Level Summary

Year	Average Vehicles per Lane	Lane Km /1000 Pop. & Emp.
Average 10-Year Historical	5,730	1.27
Growth Only	9,672	0.91
Forecast 2031	6,471	1.17

Therefore, regardless of the road service level measure that is used, the City's road infrastructure is forecast to experience a deterioration in road service level over the next 23 years.

3.6 Forecast 2031 Road Infrastructure

3.6.1 Road Transportation Infrastructure Costing

The 2031 required roads program consists of projects that are already included in the City's 10-year Capital Plan and longer range transportation infrastructure needs that have been established through the City's Transportation Planning Department. The

additional projects in the 10 to 23 year period were determined based on the City's EMME/2 travel demand forecasting model.

The unit prices and road construction benchmark costs presented in Section 2.0 of this report were utilized to establish the costs of the required roads program. The benchmark costs were used to calculate the basic "curb to curb" road improvement costs. However, in order to address the total cost of road construction, costs for the following items were included for each construction project in the road program:

- Sidewalks (road widening includes cost of sidewalk removals)
- Illumination
- relocation of major above ground utilities (Mississauga related utility cost: 35%)
- traffic signals (signal relocation assumes cost for temporary signals)
- noise attenuation barriers (noise wall)
- centre turn lanes
- centre medians
- major road profile changes
- median boulevard
- bicycle facilities (within travelled portion of road and within boulevard)
- landscaping / tree planting
- bridges and culverts (widening and new construction)
- property requirements

A summary of the total road infrastructure costs is presented in Table 10. The detailed Proposed road infrastructure costs are presented in Table D-1and D-2 in Appendix D. The costs presented in Table 10 have been rounded to the nearest $1000 and may not exactly reflect the totals presented in Table D-1 and Table D-2.

Table 10: Road Infrastructure Cost Estimates

Roads Program Component	Proposed Total Infrastructure Cost
Arterials	$ 149,517,000
Major Collectors	$ 151,804,000
Subtotal	$ 301,321,000
Grade Separations	$ 46,000,000
Subtotal	$ 347,321,000
Studies (EA, DC, OP, TMP)	$ 7,062,000
Subtotal	$ 354,383,000
Stand Alone Traffic Signal, Int. Improvement Costs, Transit Priority Measures and Pavement Markings	$ 45,302,000
Stand Alone Sidewalk Program	$ 21,782,000
Bicycle Facilities	$ 86,700,000
Stand Alone Noise Walls	$ 1,499,000
Total	$ 509,665,000

3.6.2 Structures and Culverts

Current unit prices for the widening and new construction of bridge structures were obtained through McCormick Rankin's Structural Department. The following unit prices were used in the study:

Bridges

- Widening
  - Small (<150m^2) - \$11,960 / m^2
  - Medium (150m^2 - 500m^2) - \$8,970 / m^2
  - Medium (500m^2 - 900m^2) - \$8,075 / m^2
  - Large (>900m^2) - \$5,980 / m^2
- New Construction - \$3,640 / m^2

Culverts

- Widening and New Construction - \$6,000 / m^2

A cost adjustment of 20% was added to certain structures identified as being particularly complex. Background data on the unit price and benchmark costing analysis are included in Appendix A.

3.6.3 Grade Separation Costs

It is estimated that five railway grade separations will be required over the next 23 year time period and have been included as part of the development related transportation infrastructure costs for Year 2031. Since two of the proposed grade separations are going to be cost shared with the City of Brampton, the City is actually proposing to fund the equivalent of only four new grade separations. The rail grade separation construction costs presented in Table 11 have been reduced for a 15% railway contribution.

Table 11: Proposed Rail Grade Separations

RAIL GRADE SEPARATIONS	City of Mississauga Construction Costs [1]
Torbram Road North (CNR) Torbram Road South (CNR)	$ 11,000,000
Goreway Road (CNR)	$ 8,000,000
Drew Road (CNR)	$ 14,000,000
Ninth Line or Tenth Line	$ 5,000,000
Total	$ 38,000,000

[1] - Based on City cost estimate. Total Costs are shown in Table A-12.

3.6.4 Stand Alone Signals and Intersection Improvements

The stand alone signals and intersection improvements refers to all intersection upgrades or new signal installations that are not along road sections being widened or constructed before 2031. A detailed breakdown of these costs is shown in Table A-8. The costs for intersection improvements and new traffic signals were calculated to be $52.15M. The signal phasing upgrades are expected to cost $5.75M while the signal system ITS strategies are expected to cost $12.125M. Although the total costs have been identified as $70.025M, only $25M has been included in the development charges program.

3.6.5 Transit Priority Measures

The transit priority measures considered for the City of Mississauga over the next 23 years include queue jump lanes and transit signal priority for buses. There were 27 intersections identified along Derry Road, Dixie Road, Erin Mills Parkway and Dundas Street where queue jump lanes will be implemented. To implement transit signal priority the City will have to upgrade controllers at the signalized intersections along transit routes at $15K/intersection and upgrade the TSP component and vehicle logic units in the buses at $8.5K/bus. Over the next 23 years it will cost $6.332M to upgrade all of the required buses. To upgrade the controllers at all 613 signalized intersections on major collector and arterial roads with transit routes will cost $9.195M. The total cost to implement the identified transit priority measures will be $29.76M; however, the cost included within the development charges program is only $19.44M.

3.6.6 Growth / Non-Growth Cost Sharing

It is assumed that all new roads are 100% growth related and will therefore be funded 100% from development charges. In the case of major collectors, it is assumed that the developer is responsible for constructing the initial 2 lanes of the road including all of the associated infrastructure (i.e., curb, sidewalk, illumination, etc) and the City is responsible for widening the road from 2 to 4 lanes. The cost associated with building the additional 2 lanes of a 4 lane road represents 25% of the cost of building the 4 lane road. Therefore, the City's share of the cost is 25%.

In the case of road widening or reconstruction, it is assumed that non-growth is responsible for resurfacing or reconstructing the existing road and that growth is responsible for the widening portion of the improvement. Therefore, the non-growth share of a reconstruction or widening is 10% for a 2 to 4 or 2 to 6 lane widening and 20 % for a 4 to 6 lane widening. Rural roads that require significant profile changes due to development are 100% growth related.

The calculations used to establish the growth/non-growth cost sharing for roads are included in Appendix E.

3.7 Final Road Infrastructure Costs

A summary of the road infrastructure costs separated into growth, developer, and non-growth component is presented in Table 12.

Table 12: Preliminary Road Infrastructure Cost Estimates

Roads Program Component	Total Infrastructure Cost	Growth DC	Developer / Recoveries	Non-Growth
Arterials	$ 149,517,000	$127,147,000	$ 2,367,000	$20,003,000
Major Collectors	$ 151,804,000	$143,719,000	$ 3,746,000	$ 4,339,000
Subtotal	$ 301,321,000	$ 270,866,000	$ 6,113,000	$ 24,342,000
Grade Separations	$ 46,000,000	$ 38,000,000	$8,000,000	-
Subtotal	$ 347,321,000	$ 308,866,000	$ 14,113,000	$ 24,342,000
Studies (EA, DC, OP, TMP)	$ 7,062,000	$ 7,062,000	-	-
Subtotal	$ 354,383,000	$ 315,928,000	$ 14,113,000	$ 24,342,000
Stand Alone Traffic Signal, Int. Improvement Costs, Transit Priority Measures and Pavement Markings	$ 45,302,000	$ 45,302,000	-	-
Stand Alone Sidewalk Program	$ 21,782,000	$ 21,782,000	-	-
Bicycle Facilities	$ 86,700,000	$ 86,700,000	-	-
Stand Alone Noise Walls	$ 1,499,000	$ 1,499,000		
Total	$ 509,665,000	$ 471,210,000	$ 14,113,000	$ 24,342,000

4. SUMMARY

The technical analysis presented in this report was used as input for calculation of the City-wide engineering growth-related capital forecast development charge. Details of the rationalization for the residential and non-residential rates are presented in a separate background study report that has been prepared by the City's Corporate Services Department.

APPENDIX A

ROAD INFRASTRUCTURE COSTING ANALYSIS

TABLE A-1

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

SUMMARY OF ANNUAL CONSTRUCTION UNIT PRICES
WITH CONSTRUCTION INDEX ADJUSTMENT

	ITEM	UNIT	5 YEAR WT. AVERAGE (-Hi & Lo) 2004-2008
1	EXCAVATION	m^3	$ 17.22
2	REMOVE EXISTING STORM SEWER (all sizes)	m	$ 60.82
3a	BASE COURSE ASPHALT (HL-8)	tonne	$ 56.07
3b	BASE COURSE ASPHALT (HDBC)	tonne	$ 79.37
3c	SUPERPAVE	tonne	$ 72.88
4a	TOP COURSE ASPHALT (HL-1)	tonne	$ 72.73
4b	TOP COURSE ASPHALT (HL-3)	tonne	$ 59.25
	Weighted Average (Top & Base Asphalt Course)		$ 60.48
5	GRANULAR A	tonne	$ 19.58
6	GRANULAR B	tonne	$ 18.49
7	CURB & GUTTER REMOVAL	m	$ 9.06
8	CURB & GUTTER INSTALLATION	m	$ 42.93
9	CONCRETE SIDEWALK REMOVAL	m^2	$ 8.25
10	CONCERTE SIDEWALK INSTALLATION	m^2	$ 47.56
11	SUBDRAINS	m	$ 15.57
12	INSTALL CONCRETE SPLASH PAD	m^2	$ 47.11
13	STORM SEWERS (525mm)	m	$ 319.43
14a	CATCHBASIN LEADS (250mm)	m	$ 186.21
14b	CATCHBASIN LEADS (300mm)	m	$ 225.24
	Weighted Average (Catchbasin Leads)		$ 195.41
15	MANHOLE REMOVAL	each	$ 600.08
16a	MANHOLE INSTALL (1200mm)	each	$ 3,898.60
16b	MANHOLE INSTALL (1500mm)	each	$ 5,785.38
16c	MANHOLE INSTALL (1800mm)	each	$ 6,400.76
16d	MANHOLE INSTALL (2400mm)	each	$ -
	Weighted Average (Manholes Installed)		$ 4,571.09
17	CATCHBASIN REMOVAL	each	$ 280.77
18a	CATCHBASIN INSTALL (SINGLE)	each	$ 1,993.91
18b	CATCHBASIN INSTALL (TWIN)	each	$ 2,941.80
	Weighted Average (Catchbasins Installed)		$ 2,098.53
19a	ADJUST MANHOLE (< 400 mm)	each	$ 271.21
19b	ADJUST MANHOLE (>400mm)		$ 740.59
20	ADJUST CATCHBASIN	each	$ 326.04
21	GRINDING	m^2	$ 2.16

Table A-2

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

ROAD WIDENING BENCHMARK COSTS

Based on 5 Year Weighted Average Unit Prices

	ROAD WIDENING 2-4 LANES (7.5m TO 15m)	ROAD WIDENING 4-6 LANES (15m TO 22.5m)	ROAD WIDENING 2-6 LANES (7.5m TO 22.5m)
EXCAVATION	$100,780	$105,300	$197,643
GRANULAR 'A'	$76,597	$83,646	$147,085
GRANULAR 'B'	$110,940	$110,940	$221,880
HOT MIX (BASE REPAIRS)	$181,145	$197,815	$347,843
HOT MIX (SURFACE)	$103,723	$159,289	$159,289
HOT MIX (PADDING)	$9,631	$20,745	$9,631
CURB & GUTTER (REMOVE)	$18,120	$18,120	$18,120
CURB & GUTTER (PLACE)	$85,860	$85,860	$85,860
LATERAL STORMS	$16,121	$16,121	$32,243
MANHOLES (ADJUST)	$3,255	$3,255	$3,255
CATCH BASINS (REMOVE)	$6,177	$6,177	$6,177
CATCH BASINS (PLACE)	$46,168	$46,168	$46,168
SUBDRAINS	$31,140	$31,140	$31,140
SUBTOTAL	**$789,657**	**$884,575**	**$1,306,333**
BASIC CONSTRUCTION (15%)	$118,449	$132,686	$195,950
ENGINEERING (19% *)	$150,034.88	$168,069.31	$248,203.29
CONTINGENCY (22%)	$173,725	$194,607	$287,393
SUBTOTAL	**$1,231,865**	**$1,379,937**	**$2,037,880**
INTERSECTION IMPROVEMENTS	$454,000	$454,000	$454,000
TOTAL	**$1,685,865**	**$1,833,937**	**$2,491,880**
2009 DC COSTS	**$1,686,000**	**$1,834,000**	**$2,492,000**

Note:
Benchmark Costs do not include traffic signals, sidewalk, illumination, utility relocation, noise attenuation walls, bicycle paths, etc.

Filename: 7466mw - benchmark costs - with int improv
Date: 14-May-09

Table A-3

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY

RE-CONSTRUCTION BENCHMARK COSTS

Based on 5 Year Weighted Average Unit Prices

	2 LANE CONSTRUCTION (7.5m)	4 LANE CONSTRUCTION (15m)	6 LANE CONSTRUCTION (22.5m)
EXCAVATION	$109,778	$206,640	$303,503
GRANULAR 'A'	$79,886	$150,374	$220,862
GRANULAR 'B'	$125,732	$236,672	$347,612
HOT MIX	$144,472	$311,170	$477,868
CURB & GUTTER	$85,860	$85,860	$85,860
STORM SEWER	$319,430	$319,430	$319,430
REMOVAL OF STORM SEWERS	$60,820	$60,820	$60,820
LATERAL STORMS	$16,121	$32,243	$48,364
MANHOLES	$54,853	$54,853	$54,853
CATCH BASINS	$46,168	$46,168	$46,168
SUBDRAINS	$31,140	$31,140	$31,140
SUBTOTAL	**$1,074,260**	**$1,535,369**	**$1,996,479**
ENGINEERING (19%*)	$204,109.32	$291,720.18	$379,331.05
SUBTOTAL	**$1,278,369**	**$1,827,090**	**$2,375,810**
INTERSECTION IMPROVEMENTS	$454,000	$454,000	$454,000
TOTAL	**$1,732,369**	**$2,281,090**	**$2,829,810**
2009 DC COSTS	**$1,732,000**	**$2,281,000**	**$2,830,000**

Note:
- Benchmark Costs do not include traffic signals, sidewalk, illumination, utility relocation, noise attenuation walls, bicycle paths, etc.

Filename: 7466mw - benchmark costs - with int improv
Date: 14-May-09

Table A-4

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY

NEW CONSTRUCTION BENCHMARK COSTS

Based on 5 Year Weighted Average Unit Prices

	2 LANE CONSTRUCTION (7.5m)	4 LANE CONSTRUCTION (15m)	6 LANE CONSTRUCTION (22.5m)
EXCAVATION	$109,778	$206,640	$303,503
GRANULAR 'A'	$79,886	$150,374	$220,862
GRANULAR 'B'	$125,732	$236,672	$347,612
HOT MIX	$144,472	$311,170	$477,868
CURB & GUTTER	$85,860	$85,860	$85,860
STORM SEWER	$319,430	$319,430	$319,430
LATERAL STORMS	$16,121	$32,243	$48,364
MANHOLES	$54,853	$54,853	$54,853
CATCH BASINS	$46,168	$46,168	$46,168
SUBDRAINS	$31,140	$31,140	$31,140
SUBTOTAL	**$1,013,440**	**$1,474,549**	**$1,935,659**
BASIC CONSTRUCTION (10%)	**$101,344**	**$147,455**	**$193,566**
ENGINEERING (10%)	$101,344	$147,455	$193,566
SUBTOTAL	**$1,216,127**	**$1,769,459**	**$2,322,791**
INTERSECTION IMPROVEMENTS	$454,000	$454,000	$454,000
TOTAL	**$1,670,127**	**$2,223,459**	**$2,776,791**
2009 DC COSTS	**$1,670,000**	**$2,223,000**	**$2,777,000**

Note:
Benchmark Costs do not include traffic signals, sidewalk, illumination, utility relocation, noise attenuation walls, bicycle paths, etc.

Filename: 7466mw - benchmark costs - with int improv
Date: 14-May-09

Table A-5

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

INTERSECTION RELATED TIE-IN COST

INTERSECTION TYPE	# OF INTERSECTIONS	COST / INTERSECTION	TOTAL COST
A- INTERSECTION BETWEEN CITY OF MISSISSAUGA ARTERIALS OR MAJOR COLLECTORS	42	$ 215,259	$ 9,040,866
B- INTERSECTION BETWEEN CITY OF MISSISSAUGA ARTERIALS OR MAJOR COLLECTORS WITH LOCAL ROADS	77	$ 181,389	$ 13,966,922
C- INTERSECTION WITH CITY OF MISSISSAUGA ARTERIALS OR MAJOR COLLECTORS WITH THE REGION OF PEEL ARTERIALS	17	$ 215,259	$ 3,659,398
		TOTAL	$ 26,667,185
		IMPROVEMENT LENGTH	58.7 km
		COST PER KM	$ 454,296
		COST PER KM	**$ 454,000**

Table A-6

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

Road Construction Cost Summary
Comparison of 5 Year Weighted Average (2003-2008)
and 2004 Mississauga DC Unit Prices

Road Improvement Type	2004 DC Costs	2009 DC Costs	Difference (Due to Unit Prices)	
			Total Difference	% Increase
New Construction				
2 Lane	$ 1,071,000	$ 1,670,000	$ 599,000	56%
4 Lane	$ 1,419,000	$ 2,223,000	$ 804,000	57%
6 Lane	$ 1,767,000	$ 2,777,000	$ 1,010,000	57%
Reconstruction				
2 Lane	$ 1,083,000	$ 1,732,000	$ 649,000	60%
4 Lane	$ 1,428,000	$ 2,281,000	$ 853,000	60%
6 Lane	$ 1,773,000	$ 2,830,000	$ 1,057,000	60%
Road Widening				
2-4 Lane	$ 1,141,000	$ 1,686,000	$ 545,000	48%
4-6 Lane	$ 1,249,000	$ 1,834,000	$ 585,000	47%
2-6 Lane	$ 1,658,000	$ 2,492,000	$ 834,000	50%

Cost include the following:

1. Adjustment Factors

	Basic Construction	Engineering	Contingency
New Construction	10%	10%	
Reconstruction		19%	
Road Widening	15%	19%	22%

2. Intersection Improvements

2004 DC - $330,000 per km
2009 DC - $454,000 per km

May 14, 2009

Table A-7

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

TRAFFIC SIGNAL PROGRAM
BASIS OF SIGNAL UNIT COSTS IN THE ROAD PROGRAM

Traffic Signal Improvement Type	Unit Costs				No. of Intersections	Total Signal Costs	Comments
	Temp Signals	New Signals	Intersection Improvements	Total			
20 Year Roads Program							
a) Replace Existing Signals	$ 25,000	$ 200,000	n/a	$ 225,000	92	$ 20,700,000	
b) Replace Existing Regional and MTO Signals	$ 25,000	$ 200,000	n/a	$ 225,000	24	$ 5,400,000	
c) New Signals	n/a	$ 200,000	n/a	$ 200,000	44	$ 8,800,000	
Calculated Cost Per km							458,426.38
TOTAL					160	$ 34,900,000	Translates into $459,000/km based on 76.13 km of road improvements, 2 signals per km

May 14, 2009

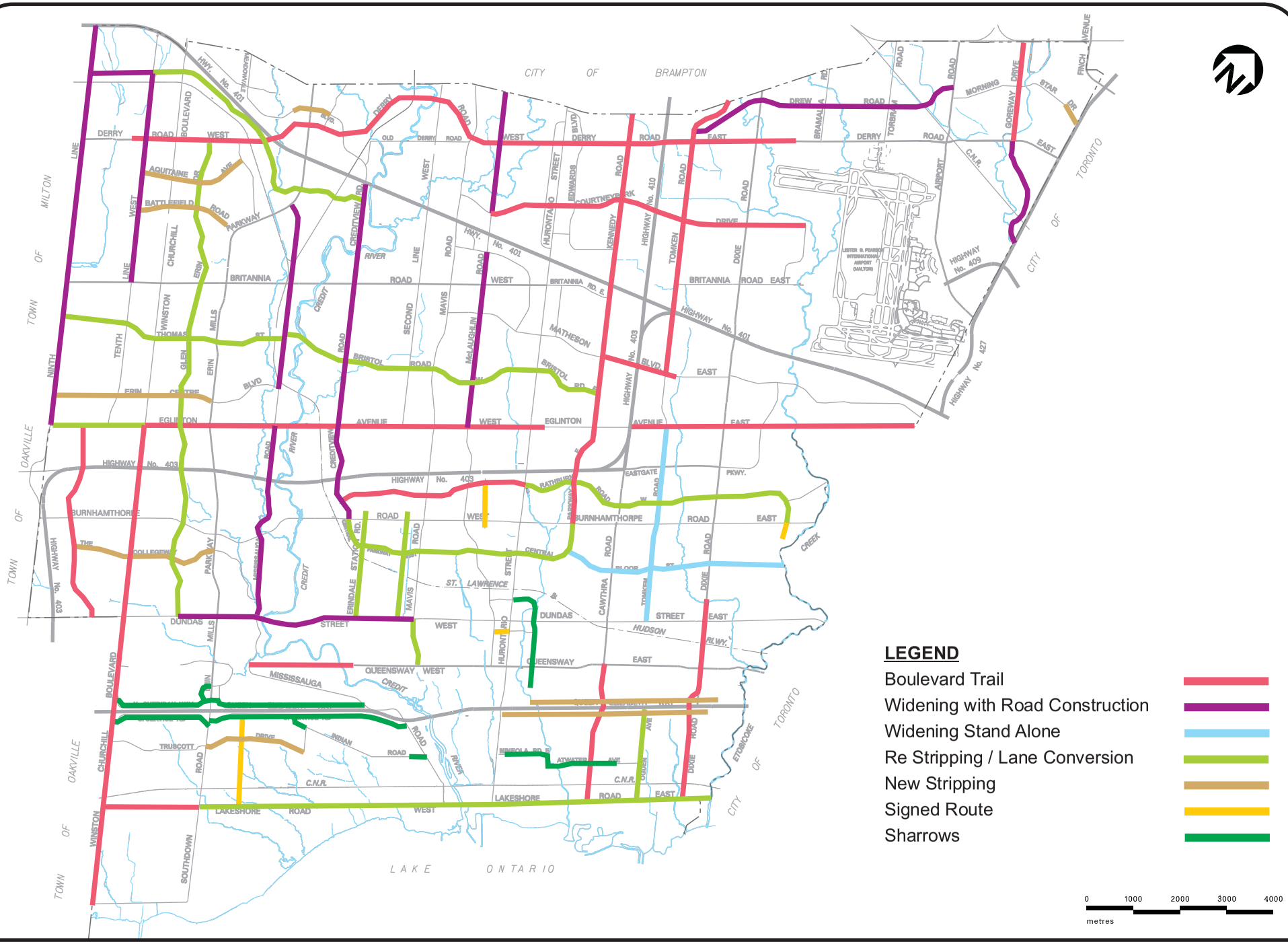
Note: Intersection unit prices were calculated based on proposed roads program as of March 30th, 2009

TABLE A-8
CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

TRAFFIC SIGNAL PROGRAM
TRANSIT PRIORITY MEASURES, STAND ALONE SIGNALS AND INTERSECTION IMPROVEMENTS[1]

Traffic Signal Improvement Type	Unit Costs				No. of Intersections	Total Signal Costs	Comments
	Temp Signals	New Signals	Intersection Improvements	Total			
a) New Signals with Minor Intersection Improvements	$ -	$ 140,000	$ 100,000	$ 240,000	125	$ 30,000,000	Based on City estimate (All new signals require minor intersection improvements)
b) Replace Existing Signals with Moderate Intersection Improvements	$ 60,000	$ 140,000	$ 250,000	$ 450,000	29	$ 13,050,000	Intersections with one new lane or lane extension
c) Replace Existing Signals with Major Intersection Improvements	$ 60,000	$ 140,000	$ 500,000	$ 700,000	13	$ 9,100,000	Intersections with more than one lane or lane extension
Subtotal					167	$ 52,150,000	Equivalent to 7 installations per year over 23 years
Signal Phasing Upgrades							
Signal Phasing Upgrades				$ 250,000		$ 5,750,000	$250,000 per year over 23 years
Signal System ITS Strategies							
- Computer System ITS Technology Enhancements				$ 275,000		$ 6,325,000	$275,000 per year over 23 years
- ITS Strategies				$ 100,000		$ 2,300,000	$100,000 per year over 23 years
- Traffic Computer System Enhancement						$ 3,500,000	1.5M for 2009, 2M for 2013
Subtotal Stand Alone Signal and Intersecton Improvement Costs						**$ 70,025,000**	
Transit Signal Priority							
- Buses - TSP Component & Vehicle Logic Unit				$ 8,500 $ 8,500	400 345	$ 3,400,000 $ 2,932,500	400 existing buses 15 new buses per year for 23 years
- E-Views				$ 15,000	592	$ 8,880,000	Signalized intersections along City of Mississauga major collector and arterial roads with transit routes
- Queue Jump Lanes				$ 527,000	22	$ 11,594,000	Derry Road, Dixie Road, Erin Mills Parkway and Dundas Street corridors
Subtotal Transit Priority Measures Costs						**$ 26,806,500**	
TOTAL						**$ 96,831,500**	
TO BE INCLUDED IN 2009 DC PROGRAM						**$ 40,900,000**	

[1] - ' Stand Alone' refers to intersections that are not included in the 23 year roads program list.



City of Mississauga
DEVELOPMENT CHARGES UPDATE 2009

BICYCLE ROUTES

FIGURE A-1

MRC
A member of MMM GROUP

Table A-9

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES UPDATE STUDY

BICYCLE FACILITIES UNIT COSTS

Road widening only for Bicycle lanes

Length 1000 m

Item	Est Qty	Unit	City Prices		
			Unit Price	Amount	
Excavation	3000	m3	$ 23.00	$ 69,000	
Curb Removal	2000	lm	$ 17.00	$ 34,000	
Splash Pad Removal	2000	lm	$ 20.00	$ 40,000	
Catch Basin Relocation	24	ea	$ 2,500.00	$ 60,000	
New Curb	2000	lm	$ 50.00	$ 100,000	
New splash pad	2000	m2	$ 55.00	$ 110,000	
Granular A	6000	t	$ 23.00	$ 138,000	
HL8	900	t	$ 80.00	$ 72,000	
HL 3	360	t	$ 80.00	$ 28,800	
subdrain	2000	lm	$ 20.00	$ 40,000	
sod	2000	m2	$ 7.75	$ 15,500	
signs	20	ea	$ 50.00	$ 1,000	
line painting	2000	lm	$ 5.00	$ 10,000	
symbols	28	ea	$ 175.00	$ 4,900	
Total				**$ 723,200**	
Contingency	20%			$ 144,640	
Amount				$ 867,840	
Design	20%			$ 173,568	
Amount				$ 1,041,408	
GST	5%			$ 52,070	
Total				**$ 1,093,478**	$ 1,200,000

Road widening for bike lanes as part of road reconstruction

Length 1000 m

Item	Est Qty	Unit	City Prices		
			Unit Price	Amount	
Excavation	3000	m3	$ 23.00	$ 69,000	
Catchbasin leads	90	m	$ 200.00	$ 18,000	
Granular A	6000	t	$ 23.00	$ 138,000	
HL8	900	t	$ 80.00	$ 72,000	
HL 3	360	t	$ 80.00	$ 28,800	
signs	20	ea	$ 50.00	$ 1,000	
line painting	2000	lm	$ 5.00	$ 10,000	
symbols	28	ea	$ 175.00	$ 4,900	
Total				**$ 341,700**	
Contingency	20%			$ 68,340	
Amount				$ 410,040	
Design	20%			$ 82,008	
Amount				$ 492,048	
GST	5%			$ 24,602	
Total				**$ 516,650**	$ 550,000

Table A-9

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES UPDATE STUDY

BICYCLE FACILITIES UNIT COSTS

Boulevard Trails

Width 4.5 m
Length 1000 m

Item	Est Qty	Unit	City Prices		
			Unit Price	Amount	
Excavation	1650	m3	$ 20.00	$ 33,000	
Granular	2750	t	$ 15.00	$ 41,250	
HL3	450	t	$ 95.00	$ 42,750	
HL8	675	t	$ 94.00	$ 63,450	
Concrete	200	m2	$ 51.00	$ 10,200	
Topsoil	40	m3	$ 37.00	$ 1,480	
sod	3000	m2	$ 7.75	$ 23,250	
signs	20	ea	$ 50.00	$ 1,000	
line painting	3000	lm	$ 5.00	$ 15,000	
symbols	30	ea	$ 175.00	$ 5,250	
Total				**$ 236,630**	
Design	20%			$ 47,326	
Amount				$ 283,956	
Contingency	20%			$ 56,791	
Amount				$ 340,747	
GST	5%			$ 17,037	
Total				**$ 357,785**	$ 360,000

Sharrows

Length 1000 m

Item	Est Qty	Unit	City Prices		
			Unit Price	Amount	
signs	20	ea	$ 50.00	$ 1,000	
symbols	28	ea	$ 175.00	$ 4,900	
Total				$5,900.00	
Contingency	20%			$ 1,180	
Amount				$ 7,080	
GST	5%			$ 354	
total				**$ 7,434**	$ 7,500

Lane conversion for bike lanes
4 lanes to 3 lanes

Length 1000 m

Item	Est Qty	Unit	City Prices		
			Unit Price	Amount	
grinding of existing pavement					
markings	3000	lm	$ 4.00	$ 12,000	
signs	20	ea	$ 50.00	$ 1,000	
line painting	4000	lm	$ 5.00	$ 20,000	
symbols	28	ea	$ 175.00	$ 4,900	
Total				$37,900.00	
Contingency	20%			$ 7,580	
Amount				$ 45,480	
GST	5%			$ 2,274	
total				**$ 47,754**	$ 40,000

Table A-9

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES UPDATE STUDY

BICYCLE FACILITIES UNIT COSTS

Lane conversion for sharrows
4 lanes to 4 lanes

Average of lane conversion 4 to 3 & 4 to 4 =	$ 38,934

Length 1000 m

Item	Est Qty	Unit	City Prices		
			Unit Price	Amount	
grinding of existing pavement					
markings	2000	lm	$ 4.00	$ 8,000	
signs	20	ea	$ 50.00	$ 1,000	
line painting	2000	lm	$ 5.00	$ 10,000	
symbols	28	ea	$ 175.00	$ 4,900	
Total				$23,900.00	
Contingency	20%			$ 4,780	
Amount				$ 28,680	
GST	5%			$ 1,434	
total				**$ 30,114**	$ 40,000

Signed Route

Length 1000 m

Item	Est Qty	Unit	City Prices		
			Unit Price	Amount	
signs	20	ea	$ 50.00	$ 1,000	
Total				$ 1,000	
Contingency	20%			$ 200	
Amount				$ 1,200	
GST	5%			$ 60	
total				**$ 1,260**	$ 2,000

Bike lanes on road with only centre line

Length 1000 m

Item	Est Qty	Unit	City Prices		
			Unit Price	Amount	
signs	20	ea	$50.00	$ 1,000	
line painting	2000	lm	$5.00	$ 10,000	
symbols	28	ea	$175.00	$ 4,900	
Total				$ 15,900	
Contingency	20%			$ 3,180	
Amount				$ 19,080	
GST	5%			$ 954	
total				**$ 20,034**	$ 20,000

Table A-10

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

PROPOSED BICYCLE FACILITIES

Arterial Roads with Bicycle Route

Road	From	To	Length	Roadworks		Structures		
			(km)	Facility Type	Cost	Type	Length	Cost
					($)		(m)	($)
Cawthra Road	Lakeshore	The Queensway	3.6	Blvd Trail	$ 1,296,000			
Courtney Park Dr	McLaughlin Road	Etobicoke Creek	8	Blvd Trail	$ 2,880,000			
Derry Road	Terragar	WCB	1	Blvd Trail	$ 360,000			
	WCB	401	2.1	Blvd Trail	$ 756,000			
	401	Creditview	1.7	Blvd Trail	$ 612,000			
	Creditview	Mavis	1.2	Blvd Trail	$ 432,000			
	Mavis	10	2	Blvd Trail	$ 720,000			
	10	Cardiff	2	Blvd Trail	$ 720,000			
	Telford way	Cattrick	3	Blvd Trail	$ 1,080,000			
Dixie Road	Lakeshore	Golden Orchard Dr.	3.6	Blvd Trail	$ 1,296,000			
Dundas Street	Glen Erin Dr.	Mavis Rd.	6	Widening w/ Road Const	$ 3,300,000	Bridge Widening	53.00	$1,901,640.00
						Culvert Widening	6.00	$144,000.00
Eglinton Ave	9th Line	WCB	2	Restripping/Lane Conversion	$ 80,000			
	WCB	Forum Dr	9	Blvd Trail	$ 3,240,000			
	403	Etobicoke Creek	3.6	Blvd Trail	$ 1,296,000			
	Etobicoke Creek	Toronto	2	Blvd Trail	$ 720,000			
Lakeshore Rd	Southdown	Toronto	11	Restripping/Lane Conversion	$ 440,000			
Mavis Road	The Queensway	Dundas St.	4.6	Restripping/Lane Conversion	$ 184,000			
Queensway	Mississauga Rd	Glengarry	2.2	Blvd Trail	$ 792,000			
Royal Windsor	WCB	Southdown	2	Blvd Trail	$ 720,000			
WCB	Lakeshore	Eglinton	10	Blvd Trail	$ 3,600,000			
9th Line	Eglinton Ave	Britannia	3.09	Widening w/ Road constr	$ 1,699,500	Culvert Widening	11	$264,000
	Britannia	Derry	3.09	Widening w/ Road constr	$ 1,699,500	Bridge Widening	40	$1,435,200
	Derry	401	2.45	Widening w/ Road constr	$ 1,347,500	Culvert Widening	3	$72,000
					$ 29,270,500			**$ 3,816,840**

SUMMARY	**COST ($)**
Roadway	
Signed Routes	-
New Stripping	-
Re-stripping/Lane Conversion	$ 704,000
Sharrows	-
Boluevard Trail	$ 20,520,000
Bike Lanes with Road Widening	$ 8,046,500
Bike lanes (Stand Alone)	-
Total	**$ 29,270,500**
Structures	$ 3,816,840
Grand Total	**$ 33,087,340**

Total	**$33,087,340**

Table A-10

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

PROPOSED BICYCLE FACILITIES

Major Collector Roads with Bicycle Route

Road	From	To	Length	Roadworks		Structures		
			(km)	Facility Type	Cost	Type	Length	Cost
					($)		(m)	($)
Aquitane Road	10th Line	Millcreek	3	New Stripping	$ 60,000			
Argentia Road	Creditview Rd	10th Line	7.5	Restripping/Lane Conversion	$ 300,000			
	10th Line	9 th Line	1.5	Widening w/ Road Const	$ 825,000			
Atwater Ave	Mineola	135m E of Haig Blvd	2.6	Sharrows	$ 19,500			
Battleford Road	10th Line	430m E Erin Mills Pk	2.8	New Stripping	$ 56,000			
Bloor	Central Parkway	Toronto	6	Widening (Stand Alone)	$ 7,200,000			
Bristol	Queen St	Kennedy	5.5	Restripping/Lane Conversion	$ 220,000			
Camilla Road	Paisley Blvd.	Dundas St.	3	Sharrows	$ 22,500			
Central Parkway	Burnhamthorpe	Burnhamthorpe	5.5	Restripping/Lane Conversion	$ 220,000			
Clarkson Rd N	Lakeshore	South Sheridan Way	2	Signed Route	$ 4,000			
Creditveiw Rd	Burnhamthorpe Rd	Bancroft	3.5	Widening w/ Road constr	$ 1,925,000	Bridge Widening	69	$2,475,720
	Bancroft	401	1.8	Widening w/ Road constr	$ 990,000	Bridge Widening	62	$2,224,560
Creditview Road/ Meadowvale Blvd.	Financial Dr.	Syntex Dr.	2.2	New Stripping	$ 44,000			
Drew Rd	Tomken	Dixie	1.5	Widening w/ Road Const	$ 825,000	New Bridge	50.00	$728,000.00
	Dixie	Torbram	1.4	Widening (Stand Alone)	$ 1,680,000			
	Torbram	660m E	0.66	Widening w/ Road Const	$ 363,000			
	660m E	530m W of Airport	0.4	Widening w/ Road Const	$ 220,000	New Bridge	50.00	$728,000.00
	530m W of Airport	Airport	0.54	Widening w/ Road Const	$ 297,000	Culvert Widening	15.00	$360,000.00
Duke of York	Webb Dr.	Rathburn Rd.	1	Signed Route	$ 2,000			
Erin Centre Blvd	9th Line	Erin Mills Pkwy.	3.1	New Stripping	$ 62,000			
Erindale Station Rd	Dundas St.	Deer Run	3.8	Restripping/Lane Conversion	$ 152,000			
Glen Erin Dr	Dundas	Derry	10	Restripping/Lane Conversion	$ 400,000			
Goreway	427	Derry	2.4	Widening w/ Road constr	$ 1,320,000			
	Derry	Brampton	3.5	Blvd Trail	$ 1,260,000			
Indian Road	S. Sheridan Way Cobalt St.	Lorne Park Rd. Easternly End	1.6	Sharrows	$ 12,000			
Kennedy Road	Burnhamthorpe	Brampton	8.4	Blvd Trail	$ 3,024,000			
King St	Confederation Pkwy	Hurontario St.	1.4	Signed Route	$ 2,800			
Kirwin Ave	Hurontario St.	Dundas St.	2	Sharrows	$ 15,000			
Leane Blvd	North Sheridan Way	Erin Mills Pkwy.	0.5	Sharrows	$ 3,750			
Matheson Blvd	Kennedy Rd.	330m E of Tomken F	1.4	Blvd Trail	$ 504,000			
McLaughlin Road	Eglinton	Cantay	2.5	Widening w/ Road constr	$ 1,375,000			
	Courtney Park	Brampton	3	Widening (Stand Alone)	$ 3,600,000			
Mineola Road	60m W of Staveban	Atwater Ave.	1	Sharrows	$ 7,500			

Table A-10

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

PROPOSED BICYCLE FACILITIES

Major Collector Roads with Bicycle Route

Mississauga Rd	Dundas	Burnhamthorpe	2.5	Widening w/ Road constr	$ 1,375,000			
	Burnhamthorpe	Eglinton	2.5	Widening w/ Road constr	$ 1,375,000			
	Erin Centre	Erin Mills Parkway	5	Widening w/ Road constr	$ 2,750,000			
Morning star Dr	Airport Rd.	Dunrankin Dr.	2.4	New Stripping	$ 48,000			
North Service Rd	Camilla Rd.	Brentano Blvd.	6.1	New Stripping	$ 122,000			
North Sheridan Way	Winston Churchill Blvd.	Mississauga Rd.	7	Sharrows	$ 52,500			
Ogden Road	Lakeshore	South Service Rd.	3	Restripping/Lane Conversion	$ 120,000			
Pony Trial	Burnhamthorpe Rd.	S End of Stonepath (	1	Signed Route	$ 2,000			
Rathburn Road	Creditview Rd	Hurontario St	4.5	Blvd Trail	$ 1,620,000			
	Hurontario St	Burnhamtrope Rd	6.5	Restripping/Lane Conversion	$ 260,000			
Ridgeway Drive	Dundas St.	Eglinton Ave.	4.3	Blvd Trail	$ 1,548,000	New Bridge	100.00	$1,456,000.00
South Service Rd	Hurontario St.	Park Royale Blvd.	6.1	New Stripping	$ 122,000			
South Sheridan Way	Winston Churchill Bl	Mississauga Rd.	6.7	Sharrows	$ 50,250			
The Collegeway	Ridgeway Dr.	Erin Mills Pkwy.	3.2	New Stripping	$ 64,000			
Thomas	9th Line	Queen St	6.5	Restripping/Lane Conversion	$ 260,000			
Tomken Rd	Dundas	Eglinton	3	Widening (Stand Alone)	$ 3,600,000			
	Matheson	Brampton	7	Blvd Trail	$ 2,520,000			
Truscot Road	Southdown Rd.	Lorne Park Rd.	2.1	New Stripping	$ 42,000			
Wolfedale Road	Dundas St.	Forestwood Dr.	3	Restripping/Lane Conversion	$ 120,000			
10th Line	Britannia	Argentia	4.7	Widening w/ Road constr	$ 2,585,000			
					$ 45,646,800			**$ 7,972,280**

SUMMARY	**COST ($)**
Roadway	
Signed Routes	$ 10,800
New Stripping	$ 620,000
Re-stripping/Lane Conversion	$ 2,052,000
Sharrows	$ 183,000
Boluevard Trail	$ 10,476,000
Bike Lanes with Road Widening	$ 16,225,000
Bike lanes (Stand Alone)	$ 16,080,000
Total	**$ 45,646,800**
Structures	$ 7,972,280
Grand Total	**$ 53,619,080**

Total	**$53,619,080**

UNIT COST			
Roadway			
Signed Routes	$	2,000	per km
Sharrows	$	7,500	per km
Lane Conversion / Restripping	$	40,000	per km
New Bike Lanes (Stand alone)	$	1,200,000	per km
New Bike Lanes with road construction	$	550,000	per km
Boulevard Trail	$	360,000	per km
Roads with Centreline marked only	$	20,000	per km
Bridges			
Bridge Widening	$	8,970.00	per sq. m
Bridge New Construction	$	3,640.00	per sq. m
Culverts	$	6,000.00	per sq. m

Table A-11

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

PROPOSED BICYCLE FACILITIES COST SUMMARY

Arterial Roads		
Roadway	$	29,270,500
Signed Routes		-
New Stripping		-
Re-stripping/Lane Conversion	*$*	*704,000.00*
Sharrows		-
Boulevard Trail	*$*	*20,520,000.00*
Bike Lanes with Road Widening	*$*	*8,046,500.00*
Bike lanes (Stand Alone)		-
Structures	$	3,816,840
Total	**$**	**33,087,340**
Major Collector Roads		
Roadway	$	45,646,800
Signed Routes	*$*	*10,800.00*
New Stripping	*$*	*620,000.00*
Re-stripping/Lane Conversion	*$*	*2,052,000.00*
Sharrows	*$*	*183,000.00*
Boulevard Trail	*$*	*10,476,000.00*
Bike Lanes with Road Widening	*$*	*16,225,000.00*
Bike lanes (Stand Alone)	*$*	*16,080,000.00*
Structures	$	7,972,280
Total	**$**	**53,619,080**
Grand Total	**$**	**86,706,420**

Table A-12
CITY OF MISSISSAUGA

2009 DEVELOPMENT CHARGES STUDY UPDATE

PROPOSED RAIL GRADE SEPARATIONS

RAIL GRADE SEPARATIONS	PROPOSED 2009 DC COSTS		COMMENTS
	City Cost	Total Cost	
Torbram Road North (CNR)	$ 11,000,000	$ 45,500,000	Already budgeted and going for construction
Torbram Road South (CNR)			Already budgeted and going for construction
Goreway Road (CNR)	$ 8,000,000	$ 16,000,000	Already budgeted and going for construction
Drew Road (CNR)	$ 14,000,000	$ 14,000,000	New proposed budget
Ninth Line (just north of Terragar Blvd) [1]	$ 5,000,000	$ 10,000,000	50/50 split with Town of Milton/Halton Region
Tenth Line (south of Argentia) [1]	$ 10,000,000	$ 10,000,000	
Erindale Station (CPR)[2]	$ 12,000,000	$ 12,000,000	New proposed budget
Wolfedale Road (north of Dundas) [2]	$ 13,000,000	$ 13,000,000	
Total	$ 73,000,000	$ 120,500,000	

Notes: [1] - $5M included in roads program for either Ninth Line or Tenth Line

[2] - Not included in 2009 DC roads program

APPENDIX B

ROADWAY SERVICE LEVEL ANALYSIS

Table B-1

CITY OF MISSISSAUGA
2009 DEVELOMENT CHARGES STUDY UPDATE

10 YEAR HISTORICAL SERVICE LEVEL ANALYSIS

					1999				2000				2001				2002				2003				2004				2005				2006				2007				2008			
Sec. No	Name	From	To	Length (km)	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms
56011	AQUITAINE AVE.	TENTH LINE WEST	EDENWOOD DR.	0.40	4	11200	4,480	1.60	4	10100	4,040	1.60	4	10700	4,280	1.60	4	11300	4,520	1.60	4	11300	4,520	1.60	4	11526	4,610	1.60	4	11752	4,701	1.60	4	11978	4,791	1.60	4	12204	4,882	1.60	4	12448	4,979	1.6000
56008	AQUITAINE AVE.	EDENWOOD DR.	WINSTON CHURCHILL BLVD.	0.26	4	11200	2,912	1.04	4	10100	2,626	1.04	4	10700	2,782	1.04	4	11300	2,938	1.04	4	11300	2,938	1.04	4	9900	2,574	1.04	4	10098	2,625	1.04	4	10296	2,677	1.04	4	10494	2,728	1.04	4	10704	2,783	1.0400
46015	AQUITAINE AVE.	WINSTON CHURCHILL BLVD.	GLEN ERIN DR.	0.56	4	12200	6,832	2.24	4	13000	7,280	2.24	4	13700	7,672	2.24	4	13667	7,653	2.24	4	14400	8,064	2.24	4	12000	6,720	2.24	4	12240	6,854	2.24	4	12480	6,989	2.24	4	12720	7,123	2.24	4	12974	7,266	2.2400
46014	AQUITAINE AVE.	GLEN ERIN DR.	MILLCREEK DR.	1.10	4	12200	13,420	4.40	4	9700	10,670	4.40	4	11900	13,090	4.40	4	14400	15,840	4.40	4	14400	15,840	4.40	4	12000	13,200	4.40	4	12240	13,464	4.40	4	12480	13,728	4.40	4	12720	13,992	4.40	4	12974	14,272	4.4000
	ARGENTIA RD	TENTH LINE	WINSTON CHURCHILL	0.63	0	0	0	0.00	0	0	0	0.00	4	2000	1,260	2.52	4	2940	1,852	2.52	4	3000	1,890	2.52	4	7338	4,623	2.52	4	11675	7,355	2.52	4	16013	10,088	2.52	4	20350	12,821	2.52	4	20757	13,077	2.5200
	ARGENTIA RD	FIFTH LINE	WINSTON CHURCHILL BLVD	1.73	4	3900	6,747	6.92	4	3800	6,574	6.92	4	4300	7,439	6.92	4	11800	20,414	6.92	4	11800	20,414	6.92	4	9100	15,743	6.92	4	9282	16,058	6.92	4	9464	16,373	6.92	4	9646	16,688	6.92	4	9839	17,021	6.9200
54008	ARGENTIA RD	FIFTH LINE	DERRY ROAD	0.68	4	4600	3,128	2.72	4	3600	2,448	2.72	4	3700	2,516	2.72	4	9100	6,188	2.72	4	9100	6,188	2.72	4	8500	5,780	2.72	4	9167	6,233	2.72	4	9833	6,687	2.72	4	10500	7,140	2.72	4	10710	7,283	2.7200
46031	ARGENTIA RD	DERRY ROAD	CENTURY AVE	0.32	4	11300	3,616	1.28	4	10500	3,360	1.28	4	11600	3,712	1.28	4	11600	3,712	1.28	4	11600	3,712	1.28	4	12800	4,096	1.28	4	16080	5,146	1.28	4	14650	4,688	1.28	4	13220	4,230	1.28	4	13484	4,315	1.2800
46007	ARGENTIA RD	CENTURY AVE	TURNER VALLEY RD	1.08	4	11300	12,204	4.32	4	11450	12,366	4.32	4	11600	12,528	4.32	4	11525	12,447	4.32	4	11600	12,528	4.32	4	12800	13,824	4.32	4	13056	14,100	4.32	4	13312	14,377	4.32	4	13568	14,653	4.32	4	13839	14,947	4.3200
46088	ARGENTIA RD	TURNER VALLEY RD	CENTURY AVE	0.14	4	11300	1,582	0.56	4	11450	1,603	0.56	4	11600	1,624	0.56	4	11525	1,614	0.56	4	11600	1,624	0.56	4	12800	1,792	0.56	4	13056	1,828	0.56	4	13312	1,864	0.56	4	13568	1,900	0.56	4	13839	1,938	0.5600
46033	ARGENTIA RD	CENTURY AVE	MISSISSAUGA ROAD	0.20	4	11300	2,260	0.80	4	11450	2,290	0.80	4	11600	2,320	0.80	4	11525	2,305	0.80	4	11600	2,320	0.80	4	12800	2,560	0.80	4	13056	2,611	0.80	4	13312	2,662	0.80	4	13568	2,714	0.80	4	13839	2,768	0.8000
45012	ARGENTIA RD	KITIMAT RD	MISSISSAUGA ROAD	0.40	4	12100	4,840	1.60	4	11500	4,600	1.60	4	12100	4,840	1.60	4	10600	4,240	1.60	4	10600	4,240	1.60	4	11400	4,560	1.60	4	11628	4,651	1.60	4	11856	4,742	1.60	4	12084	4,834	1.60	4	12326	4,930	1.6000
45024	ARGENTIA RD	C.P.R.	KITIMAT RD	0.31	4	12100	3,751	1.24	4	11500	3,565	1.24	4	12100	3,751	1.24	4	10600	3,286	1.24	4	10600	3,286	1.24	4	11400	3,534	1.24	4	11628	3,605	1.24	4	11856	3,675	1.24	4	12084	3,746	1.24	4	12326	3,821	1.2400
45018	ARGENTIA RD	CREDITVIEW RD	C.P.R.	0.60	4	12100	7,260	2.40	4	11500	6,900	2.40	4	12100	7,260	2.40	4	10600	6,360	2.40	4	10600	6,360	2.40	4	11400	6,840	2.40	4	11628	6,977	2.40	4	11856	7,114	2.40	4	12084	7,250	2.40	4	12326	7,395	2.4000
7018	ATWATER AVE.	MINEOLA RD.	CAWTHRA RD.	1.00	2	5400	5,400	2.00	2	5500	5,500	2.00	2	5600	5,600	2.00	2	5625	5,625	2.00	2	5700	5,700	2.00	2	5814	5,814	2.00	2	5928	5,928	2.00	2	6042	6,042	2.00	2	6156	6,156	2.00	2	6279	6,279	2.0000
6010	ATWATER AVE.	CAWTHRA RD.	OGDEN AVE.	0.98	2	7200	7,056	1.96	2	7700	7,546	1.96	2	8200	8,036	1.96	2	8325	8,159	1.96	2	8700	8,526	1.96	2	8874	8,697	1.96	2	9048	8,867	1.96	2	9222	9,038	1.96	2	9396	9,208	1.96	2	9584	9,392	1.9600
37084	AVEBURY	MATHESON BLVD	BRITANNIA RD	1.05	4	5000	5,250	4.20	4	5450	5,723	4.20	4	5900	6,195	4.20	4	6050	6,353	4.20	4	6400	6,720	4.20	4	6528	6,854	4.20	4	6656	6,989	4.20	4	6784	7,123	4.20	4	6912	7,258	4.20	4	7050	7,403	4.2000
56006	BATTLEFORD RD.	TENTH LINE WEST	WINSTON CHURCHILL BLVD.	0.64	4	13100	8,384	2.56	4	12900	8,256	2.56	4	13100	8,384	2.56	4	14200	9,088	2.56	4	14200	9,088	2.56	4	14900	9,536	2.56	4	15198	9,727	2.56	4	15496	9,917	2.56	4	15794	10,108	2.56	4	16110	10,310	2.5600
46025	BATTLEFORD RD.	WINSTON CHURCHILL BLVD.	GLEN ERIN DR.	0.52	4	13400	6,968	2.08	4	1200	624	2.08	4	17900	9,308	2.08	4	20133	10,469	2.08	4	23500	12,220	2.08	4	20600	10,712	2.08	4	21012	10,926	2.08	4	21424	11,140	2.08	4	21836	11,355	2.08	4	22273	11,582	2.0800
46024	BATTLEFORD RD.	GLEN ERIN DR.	ERIN MILLS PKWY.	0.95	4	22100	20,995	3.80	4	19100	18,145	3.80	4	20900	19,855	3.80	4	23033	21,882	3.80	4	23500	22,325	3.80	4	20600	19,570	3.80	4	21012	19,961	3.80	4	21424	20,353	3.80	4	21836	20,744	3.80	4	22273	21,159	3.8000
	BELGRAVE ROAD	CANTAY ROAD	NORTHERLY 600M	0.60	0	0	0	0.00	0	0	0	0.00	2	1000	600	1.20	2	980	588	1.20	2	1000	600	1.20	2	1020	612	1.20	2	1040	624	1.20	2	1060	636	1.20	2	1080	648	1.20	2	1102	661	1.2000
21013	BLOOR ST.	CENTRAL PKWY.	CAWTHRA RD.	1.05	4	20800	21,840	4.20	4	14800	15,540	4.20	4	13900	14,595	4.20	4	16400	17,220	4.20	4	14200	14,910	4.20	4	14175	14,884	4.20	4	14150	14,858	4.20	4	14125	14,831	4.20	4	14100	14,805	4.20	4	14382	15,101	4.2000
20061	BLOOR ST.	CAWTHRA RD.	DIXIE RD.	2.08	4	22600	47,008	8.32	4	22600	47,008	8.32	4	22600	47,008	8.32	4	17900	37,232	8.32	4	17900	37,232	8.32	4	19900	41,392	8.32	4	20427	42,487	8.32	4	20953	43,583	8.32	4	21480	44,678	8.32	4	21910	45,572	8.3200
19008	BLOOR ST.	DIXIE RD.	ETOBICOKE CREEK	1.64	4	25500	41,820	6.56	4	23800	39,032	6.56	4	25800	42,312	6.56	4	24100	39,524	6.56	4	24100	39,524	6.56	4	23400	38,376	6.56	4	23400	38,376	6.56	4	20600	33,784	6.56	4	17800	29,192	6.56	4	18156	29,776	6.5600
50001	BRAMALEA RD.	50mN.OF DREW RD.	DERRY RD.	0.79	4	15700	12,403	3.16	4	15700	12,403	3.16	4	15400	12,166	3.16	4	15000	11,850	3.16	4	15000	11,850	3.16	4	16100	12,719	3.16	4	15850	12,522	3.16	4	21240	16,780	3.16	4	26630	21,038	3.16	4	27163	21,458	3.1600
50008	BRAMALEA RD.	50mN OF DREW RD.	134mS ETOBICOKE CREEK	0.22	4	18200	3,931	0.86	4	15700	3,391	0.86	4	20100	4,342	0.86	4	15000	3,240	0.86	4	19700	4,255	0.86	4	19100	4,126	0.86	4	19482	4,208	0.86	4	19864	4,291	0.86	4	20246	4,373	0.86	4	20651	4,461	0.8640
50013	BRAMALEA RD.	134mS ETOBICOKE CREEK	N.CITY LIMITS	0.54	4	18200	9,810	2.16	4	19000	10,241	2.16	4	20100	10,834	2.16	4	19700	10,618	2.16	4	19700	10,618	2.16	4	19100	10,295	2.16	4	18860	10,166	2.16	4	19210	10,354	2.16	4	19560	10,543	2.16	4	19951	10,754	2.1560
38009	BRISTOL RD. W.	ALBERT ST.	CREDITVIEW RD.	0.98	2	10600	10,388	1.96	2	10000	9,800	1.96	2	12100	11,858	1.96	2	11933	11,695	1.96	2	12600	12,348	1.96	2	12852	12,595	1.96	2	13104	12,842	1.96	2	13356	13,089	1.96	2	13608	13,336	1.96	2	13880	13,603	1.9600
38123	BRISTOL RD. W.	CREDITVIEW RD.	FALLINGBROOK DR.	0.46	4	10700	4,922	1.84	4	11200	5,152	1.84	4	13500	6,210	1.84	4	17000	7,820	1.84	4	17000	7,820	1.84	4	15800	7,268	1.84	4	15910	7,319	1.84	4	15455	7,109	1.84	4	15000	6,900	1.84	4	15300	7,038	1.8400
	BRISTOL RD. W.	FALLINGBROOK DR.	TERRY FOX WAY	0.94	4	10700	10,058	3.76	4	11200	10,528	3.76	4	13500	12,690	3.76	4	17000	15,980	3.76	4	17000	15,980	3.76	4	15800	14,852	3.76	4	16116	15,149	3.76	4	16432	15,446	3.76	4	16748	15,743	3.76	4	17083	16,058	3.7600
	BRISTOL RD. W.	TERRY FOX WAY	MAVIS ROAD	0.61	4	10700	6,527	2.44	4	12500	7,625	2.44	4	13500	8,235	2.44	4	17300	10,553	2.44	4	17000	10,370	2.44	4	17300	10,553	2.44	4	16045	9,787	2.44	4	14790	9,022	2.44	4	15800	9,638	2.44	4	16116	9,831	2.4400
	BRISTOL RD. W.	LONGHOUSE CRES.	MAVIS RD.	0.25	4	8800	2,200	1.00	4	11250	2,813	1.00	4	13700	3,425	1.00	4	15175	3,794	1.00	4	17300	4,325	1.00	4	17646	4,412	1.00	4	17992	4,498	1.00	4	18338	4,585	1.00	4	18684	4,671	1.00	4	19058	4,764	1.0000
37125	BRISTOL RD. W.	295 km WEST OF McLAUGHLIN	LONGHOUSE CRES.	0.30	4	7900	2,370	1.20	4	8300	2,490	1.20	4	11300	3,390	1.20	4	14167	4,250	1.20	4	17300	5,190	1.20	4	17646	5,294	1.20	4	17992	5,398	1.20	4	18338	5,501	1.20	4	18684	5,605	1.20	4	19058	5,717	1.2000
37082	BRISTOL RD. W.	MCLAUGHLIN RD.	WLY END	0.30	4	7900	2,331	1.18	4	8300	2,449	1.18	4	11300	3,334	1.18	4	14167	4,179	1.18	4	17300	5,104	1.18	4	15890	4,688	1.18	4	14480	4,272	1.18	4	13070	3,856	1.18	4	11660	3,440	1.18	4	11893	3,508	1.1800
37006	BRISTOL RD. W.	McLAUGHLIN DR.	SWIFTCURRENT TRAIL	0.83	4	11200	9,296	3.32	4	12700	10,541	3.32	4	14200	11,786	3.32	4	12700	10,541	3.32	4	13200	10,956	3.32	4	14300	11,869	3.32	4	14586	12,106	3.32	4	14872	12,344	3.32	4	15158	12,581	3.32	4	15461	12,833	3.3200
37135	BRISTOL RD. W.	SWIFTCURRENT TRAIL	HURONTARIO ST.	0.62	4	11200	6,944	2.48	4	12300	7,626	2.48	4	14200	8,804	2.48	4	13200	8,184	2.48	4	13200	8,184	2.48	4	14300	8,866	2.48	4	14090	8,736	2.48	4	13880	8,606	2.48	4	13670	8,475	2.48	4	13943	8,645	2.4800
36015	BRISTOL ROAD E.	HURONTARIO ST.	TRAILWOOD DR.	0.45	4	9550	4,288	1.80	4	11600	5,208	1.80	4	13000	5,837	1.80	4	12783	5,740	1.80	4	14400	6,466	1.80	4	14688	6,595	1.80	4	14976	6,724	1.80	4	15264	6,854	1.80	4	15552	6,983	1.80	4	15863	7,123	1.7960
36051	BRISTOL ROAD E.	TRAILWOOD DR	KENNEDY RD	1.05	4	9550	10,028	4.20	4	11275	11,839	4.20	4	13000	13,650	4.20	4	13188	13,847	4.20	4	14400	15,120	4.20	4	14688	15,422	4.20	4	14976	15,725	4.20	4	15264	16,027	4.20	4	15552	16,330	4.20	4	15863	16,656	4.2000
36012	BRITANNIA RD. E.	HURONTARIO ST.	KENNEDY RD.	1.42	4	20800	29,536	5.68	4	23000	32,660	5.68	4	23600	33,512	5.68	4	28000	39,760	5.68	4	28000	39,760	5.68	4	18800	26,696	5.68	4	19960	28,343	5.68	4	21120	29,990	5.68	4	22280	31,638	5.68	4	22726	32,270	5.6800
35009	BRITANNIA RD. E.	TOMKEN RD.	DIXIE RD.	1.35	4	13800	18,630	5.40	4	13800	18,630	5.40	4	12400	16,740	5.40	4	11100	14,985	5.40	4	11100	14,985	5.40	4	11000	14,850	5.40	4	11393	15,381	5.40	4	11787	15,912	5.40	4	12180	16,443	5.40	4	12424	16,772	5.4000
35008	BRITANNIA RD. E.	DIXIE RD.	1300mE. THEREOF	1.30	2	20700	26,910	2.60	2	18400	23,920	2.60	2	20300	26,390	2.60	2	14400	18,720	2.60	2	14400	18,720	2.60	2	15000	19,500	2.60	4	15730	20,449	5.20	4	14955	19,442	5.20	4	14180	18,434	5.20	4	14464	18,803	5.2000
59004	BURNHAMTHORPE RD.	NINTH LINE	300mE. THEREOF	0.30	2	6200	1,860	0.60	2	6350	1,905	0.60	2	6500	1,950	0.60	2	6500	1,950	0.60	2	6600	1,980	0.60	2	6732	2,020	0.60	2	6864	2,059	0.60	2	6996	2,099	0.60	2	7128	2,138	0.60	2	7271	2,181	0.6000
59003	BURNHAMTHORPE RD.	300mE OF NINTH LINE	LOYALIST	1.22	2	14200	17,324	2.44	2	14950	18,239	2.44	2	15700	19,154	2.44	2	17050	20,801	2.44	2	18000	21,960	2.44	2	14500	17,690	2.44	2	14790	18,044	2.44	2	15080	18,398	2.44	2	15370	18,751	2.44	2	15677	19,126	2.4400
59003	BURNHAMTHORPE RD.	LOYALIST	WINSTON CHURCHILL BLVD	0.47	4	14200	6,674	1.88	4	15500	7,285	1.88	4	15700	7,379	1.88	4	18000	8,460	1.88	4	18000	8,460	1.88	4	14500	6,815	1.88	4	18050	8,484	1.88	4	17970	8,446	1.88	4	17890	8,408	1.88	4	18248	8,576	1.8800
25014	BURNHAMTHORPE RD.	WINSTON CHURCHILL BLVD.	GLEN ERIN DR.	1.04	4	14500	15,080	4.16	4	14700	15,288	4.16	4	17000	17,680	4.16	4	16800	17,472	4.16	4	16800	17,472	4.16	4	14500	15,080	4.16	4	17280	17,971	4.16	4	17800	18,512	4.16	4	18320	19,053	4.16	4	18686	19,434	4.1600
25024	BURNHAMTHORPE RD.	GLEN ERIN DR.	100m E OF SOUTH COMMON CT	0.42	4	25200	10,584	1.68	4	25000	10,500	1.68	4	23500	9,870	1.68	4	26600	11,172	1.68	4	26600	11,172	1.68	4	23400	9,828	1.68	4	25780	10,828	1.68	4	26805	11,258	1.68	4	27830	11,689	1.68	4	28387	11,922	1.6800
25024	BURNHAMTHORPE RD.	100m E OF SOUTH COMMON CT	ERIN MILLS PKWY	0.30	4	25200	7,560	1.20	4	24350	7,305	1.20	4	23500	7,050	1.20	4	26250	7,875	1.20	4	26600	7,980	1.20	4	27132	8,140	1.20	4	27664	8,299	1.20	4	28196	8,459	1.20	4	28728	8,618	1.20	4	29303	8,791	1.2000
24019	BURNHAMTHORPE RD.	ERIN MILLS PKWY.	MISSISSAUGA RD.	1.05	4	27600	28,980	4.20	4	27600	28,980	4.20	4	28700	30,135	4.20	4	28733	30,170	4.20	4	29300	30,765	4.20	4	32025	33,626	4.20	4	34750	36,488	4.20	4	35445	37,217	4.20	4	36140	37,947	4.20	4	36863	38,706	4.2000
24031	BURNHAMTHORPE RD.	MISSISSAUGA RD.	C.P.R.XING	1.75	4	33100	57,925	7.00	4	33100	57,925	7.00	4	33700	58,975	7.00	4	33900	59,325	7.00	4	33900	59,325	7.00	4	33800	59,150	7.00	4	34750	60,813	7.00	4	35445	62,029	7.00	4	36140	63,245	7.00	4	36863	64,510	7.0000
23010	BURNHAMTHORPE RD.	ERINDALE STATION RD.	C.P.R.XING	0.62	6	33100	20,522	3.72	6	33100	20,522	3.72	6	33700	20,894	3.72	6	33900	21,018	3.72	6	33900	21,018	3.72	6	33800	20,956	3.72	6	34750	21,545	3.72	6	35445	21,976	3.72	6	36140	22,407	3.72	6	36863	22,855	3.7200
23018	BURNHAMTHORPE RD.	ERINDALE STATION RD.	MAVIS RD.	1.26	6	47000	59,220	7.56	6	50600	63,756	7.56	6	51600	65,016	7.56	6	44100	55,566	7.56	6	44100	55,566	7.56	6	44100	55,566	7.56	6	42750	53,865	7.56	6	41400	52,164	7.56	6	42228	53,207	7.56	6	43073	54,271	7.5600
22013	BURNHAMTHORPE RD.	CONFEDERATION PKWY.	MAVIS RD.	0.84	6	36400	30,576	5.04	6	35100	29,484	5.04	6	43300	36,372	5.04	6	37500	31,500	5.04	6	37400	31,416	5.04	6	35900	30,156	5.04	6	40520	34,037	5.04	6	38745	32,546	5.04	6	36970	31,055	5.04	6	37099	31,676	5.0400
22013	BURNHAMTHORPE RD.	1140m E.-MAVIS RD.	CONFEDERATION PKWY.	0.30	6	34500	10,350	1.80	6	35100	10,530	1.80	6	40000	12,000	1.80	6	37500	11,250	1.80	6	37400	11,220	1.80	6	35900	10,770	1.80	6	40520	12,156	1.80	6	37855	11,357	1.80	6	35190	10,557	1.80	6	35894	10,768	1.8000
22012	BURNHAMTHORPE RD.	HURONTARIO ST.	860m W.LY.	0.86	6	34500	29,670	5.16	6	38900	33,454	5.16	6	41600	35,776	5.16	6	38100	32,766	5.16	6	38100	32,766	5.16	6	26400	22,704	5.16	6	32230	27,718	5.16	6	38060	32,732	5.16	6	37900	32,594	5.16	6	38698	33,246	5.1600
21018	BURNHAMTHORPE RD.	HURONTARIO ST.	CAWTHRA RD.	2.08	4	33900	70,512	8.32	4	32600	67,808	8.32	4	32600	67,808	8.32	4	30800	64,064	8.32	4	30800	64,064	8.32	4	30900	64,272	8.32	4	31187	64,868	8.32	4	31473	65,465	8.32	4	31760	66,061	8.32	4	32395	67,382	8.3200
20013	BURNHAMTHORPE RD.	CAWTHRA RD.	TOMKEN RD.	0.90	4	33900	30,510	3.60	4	33200	29,880	3.60	4	32500	29,250	3.60	4	30225	27,203	3.60	4	29000	26,100	3.60	4	29580	26,622	3.60	4	30160	27,144	3.60	4	30740	27,666	3.60	4	31320	28,188	3.60	4	31946	28,752	3.6000
20003	BURNHAMTHORPE RD.	TOMKEN RD.	DIXIE RD.	1.30	4	31400	40,820	5.20	4	29400	38,220	5.20	4	34400	44,720	5.20	4	31000	40,430	5.20	4	31000	40,430	5.20	4	28900	37,570	5.20	4	29478	38,321	5.20	4	30056	39,073	5.20	4	30634	39,824	5.20	4	31247	40,621	5.2000
19014	BURNHAMTHORPE RD.	DIXIE RD.	ETOBICOKE CREEK	2.20	4	34900	76,780	8.80	4	37600	82,720	8.80	4	34900	76,780	8.80	4	36500	80,300	8.80	4	36500	80,300	8.80	4	32900	72,380	8.80	4	33558	73,828	8.80	4	34216	75,275	8.80	4	34874	76,723	8.80	4	35571	78,257	8.8000
14022	CAMILLA RD.	DUNDAS ST.	KING ST.	0.26	4	6200	1,612	1.04	4	6350	1,651	1.04	4	6500	1,690	1.04	4	6500	1,690	1.04	4	6600	1,716	1.04	4	6732	1,750	1.04	4	6864	1,785	1.04	4	6996	1,819	1.04	4	7128	1,853	1.04	4	7271	1,890	1.0400
44015	CANTAY RD	McLAUGHLIN RD	BRITANNIA RD	1.25	4	4600	5,750	5.00	4	4950	6,188	5.00	4	5300	6,625	5.00	4	5350	6,688	5.00	4	5600	7,000	5.00	4	5712	7,140	5.00	4	5824	7,280	5.00	4	5936	7,420	5.00	4	6048	7,560	5.00	4	6169	7,711	5.0000
	CANTAY RD	McLAUGHLIN RD	MAV

					1999				2000				2001				2002				2003				2004				2005				2006				2007				2008			
Sec. No	Name	From	To	Length (km)	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms
45023	CREDITVIEW RD.	ARGENTIA ROAD	OLD DERRY ROAD	0.77	2	12900	9,933	1.54	2	9400	7,238	1.54	2	11200	8,624	1.54	2	11900	9,163	1.54	2	11400	8,778	1.54	2	11628	8,954	1.54	2	11856	9,129	1.54	2	12084	9,305	1.54	2	12312	9,480	1.54	2	12558	9,670	1.5400
45007	CREDITVIEW RD.	OLD DERRY ROAD	DERRY ROAD	0.85	4	8700	7,395	3.40	4	8500	7,225	3.40	4	11200	9,520	3.40	4	10500	8,925	3.40	4	11400	9,690	3.40	4	11628	9,884	3.40	4	11856	10,078	3.40	4	12084	10,271	3.40	4	12312	10,465	3.40	4	12558	10,675	3.4000
	CREEKBANK ROAD	EGLINTON AVE.	MATHESON BLVD.	1.00	0	0	0	0.00	0	3800	3,800	0.00	4	6900	6,900	4.00	4	6900	6,900	4.00	4	6900	6,900	4.00	4	8008	8,008	4.00	4	9115	9,115	4.00	4	10223	10,223	4.00	4	11330	11,330	4.00	4	11557	11,557	4.0000
	CREEKBANK ROAD	MATHESON BLVD.	NORTH END	0.30	0	0	0	0.00	0	0	0	0.00	2	0	0	0.60	2	0	0	0.60	2	0	0	0.60	2	0	0	0.60	2	0	0	0.60	2	0	0	0.60	2	0	0	0.60	2	0	0	0.6000
50004	DREW RD.	690M W. OF BRAMALEA RD.	DIXIE RD.	0.69	4	17500	12,075	2.76	4	18800	12,972	2.76	4	19200	13,248	2.76	4	17000	11,730	2.76	4	17000	11,730	2.76	4	18900	13,041	2.76	4	19117	13,191	2.76	4	19333	13,340	2.76	4	19550	13,490	2.76	4	19941	13,759	2.7600
50002	DREW RD.	BRAMALEA RD.	690m W. THEREOF	0.70	4	17500	12,250	2.80	4	18800	13,160	2.80	4	15100	10,570	2.80	4	17000	11,900	2.80	4	17000	11,900	2.80	4	16400	11,480	2.80	4	17450	12,215	2.80	4	18500	12,950	2.80	4	19550	13,685	2.80	4	19941	13,959	2.8000
49003	DREW RD.	BRAMALEA RD.	250mE THEREOF	0.25	4	12800	3,200	1.00	4	14600	3,650	1.00	4	14000	3,500	1.00	4	12100	3,025	1.00	4	12100	3,025	1.00	4	14000	3,500	1.00	4	13033	3,258	1.00	4	12067	3,017	1.00	4	11100	2,775	1.00	4	11322	2,831	1.0000
49012	DREW RD.	250mE BRAMALEA RD.	150mW KIMBREL ST.	0.44	4	12800	5,632	1.76	4	14600	6,424	1.76	4	14000	6,160	1.76	4	12100	5,324	1.76	4	12100	5,324	1.76	4	14000	6,160	1.76	4	13033	5,735	1.76	4	12067	5,309	1.76	4	11100	4,884	1.76	4	11322	4,982	1.7600
49011	DREW RD.	TORBRAM RD.	670mW. THEREOF	0.67	4	12800	8,576	2.68	4	14600	9,782	2.68	4	14000	9,380	2.68	4	12100	8,107	2.68	4	12100	8,107	2.68	4	11850	7,940	2.68	4	11600	7,772	2.68	4	11350	7,605	2.68	4	11100	7,437	2.68	4	11322	7,586	2.6800
49005	DREW RD.	TORBRAM RD.	660m EASTERLY	0.66	2	13300	8,778	1.32	2	14150	9,339	1.32	2	15000	9,900	1.32	2	15175	10,016	1.32	2	15800	10,428	1.32	2	16116	10,637	1.32	2	16432	10,845	1.32	2	16748	11,054	1.32	2	17064	11,262	1.32	2	17405	11,487	1.3200
	DREW RD.	520M WEST OF AIRPORT RD.	AIRPORT RD.	0.52	4	13300	6,916	2.08	4	14150	7,358	2.08	4	15000	7,800	2.08	4	15175	7,891	2.08	4	15800	8,216	2.08	4	16116	8,380	2.08	4	16432	8,545	2.08	4	16748	8,709	2.08	4	17064	8,873	2.08	4	17405	9,051	2.0800
	DUKE OF YORK	WEBB DR.	BURNAMTHORPE RD.	0.17	4	7700	1,309	0.68	4	6800	1,156	0.68	4	8000	1,360	0.68	4	8100	1,377	0.68	4	8300	1,411	0.68	4	8466	1,439	0.68	4	8632	1,467	0.68	4	8798	1,496	0.68	4	8964	1,524	0.68	4	9143	1,554	0.6800
29034	DUKE OF YORK	BURNHAMTHORPE	RATHBURN	0.76	4	21700	16,492	3.04	4	17300	13,148	3.04	4	16900	12,844	3.04	4	17967	13,655	3.04	4	16100	12,236	3.04	4	16422	12,481	3.04	4	16744	12,725	3.04	4	17066	12,970	3.04	4	17388	13,215	3.04	4	17736	13,479	3.0400
	DUKE OF YORK	CENTREVIEW	RATHBURN	0.20	4	21700	4,340	0.80	4	17300	3,460	0.80	4	16900	3,380	0.80	4	17967	3,593	0.80	4	16100	3,220	0.80	4	16422	3,284	0.80	4	16744	3,349	0.80	4	17066	3,413	0.80	4	17388	3,478	0.80	4	17736	3,547	0.8000
59048	DUNDAS STREET W.	RIDGEWAY DR.	HYDE PARK GATE	0.34	6	39100	13,411	2.06	6	36800	12,622	2.06	6	41900	14,372	2.06	6	38200	13,103	2.06	6	38200	13,103	2.06	6	39800	13,651	2.06	6	38725	13,283	2.06	6	37650	12,914	2.06	6	45550	15,624	2.06	6	46461	15,936	2.0580
59047	DUNDAS STREET W.	WINSTON CHURCHILL BLVD.	RIDGEWAY DR.	0.69	6	34200	23,574	4.14	6	44800	30,881	4.14	6	39700	27,365	4.14	6	36867	25,412	4.14	6	38200	26,331	4.14	6	37600	25,918	4.14	6	37625	25,935	4.14	6	37650	25,952	4.14	6	38403	26,471	4.14	6	39171	27,001	4.1358
18014	DUNDAS STREET W.	WINSTON CHURCHILL BLVD.	WOODCHESTER DR.	0.57	4	38000	21,660	2.28	4	33000	18,810	2.28	4	33000	18,810	2.28	4	37600	21,432	2.28	4	37600	21,432	2.28	4	35000	19,950	2.28	4	35640	20,315	2.28	4	36280	20,680	2.28	4	37006	21,093	2.28	4	37746	21,515	2.2800
18018	DUNDAS STREET W.	WOODCHESTER DR.	GLEN ERIN DR.	0.53	4	38000	20,140	2.12	4	35500	18,815	2.12	4	33000	17,490	2.12	4	37700	19,981	2.12	4	37600	19,928	2.12	4	38352	20,327	2.12	4	39104	20,725	2.12	4	39856	21,124	2.12	4	40608	21,522	2.12	4	41420	21,953	2.1200
18076	DUNDAS STREET W.	GLEN ERIN DR.	ERIN MILLS PKWY	0.85	4	37300	31,705	3.40	4	43700	37,145	3.40	4	37900	32,215	3.40	4	37500	31,875	3.40	4	37600	31,960	3.40	4	409000	347,650	3.40	4	417180	354,603	3.40	4	425360	361,556	3.40	4	433540	368,509	3.40	4	442211	375,879	3.4000
17021	DUNDAS STREET W.	ERIN MILLS PKWY.	MISSISSAUGA RD.	0.86	4	33300	28,638	3.44	4	33300	28,638	3.44	4	40700	35,002	3.44	4	40900	35,174	3.44	4	40900	35,174	3.44	4	36000	30,960	3.44	4	37620	32,353	3.44	4	39240	33,746	3.44	4	40025	34,421	3.44	4	40825	35,110	3.4400
17022	DUNDAS STREET W.	MISSISSAUGA RD.	THE CREDIT WOODLANDS	1.36	4	36700	49,912	5.44	4	36100	49,096	5.44	4	37000	50,320	5.44	4	41200	56,032	5.44	4	41200	56,032	5.44	4	35300	48,008	5.44	4	37270	50,687	5.44	4	39240	53,366	5.44	4	40025	54,434	5.44	4	40825	55,522	5.4400
	DUNDAS STREET W.	THE CREDIT WOODLANDS	WILTSHIRE LN.	0.18	4	36700	6,606	0.72	6	36100	6,498	1.08	6	37000	6,660	1.08	6	41200	7,416	1.08	6	41200	7,416	1.08	6	35300	6,354	1.08	6	37270	6,709	1.08	6	39240	7,063	1.08	6	40025	7,204	1.08	6	40825	7,349	1.0800
16017	DUNDAS STREET W.	WILTSHIRE LN.	MAVIS RD.	1.96	4	40300	78,988	7.84	6	42600	83,496	11.76	6	3460	6,782	11.76	6	44800	87,808	11.76	6	44800	87,808	11.76	6	40600	79,576	11.76	6	41415	81,173	11.76	6	42230	82,771	11.76	6	43075	84,426	11.76	6	43936	86,115	11.7600
15021	DUNDAS STREET W.	MAVIS RD.	CLAYHILL ROAD	0.64	4	43800	28,032	2.56	4	29300	18,752	2.56	4	28900	18,496	2.56	4	44467	28,459	2.56	4	44800	28,672	2.56	4	45696	29,245	2.56	4	46592	29,819	2.56	4	47488	30,392	2.56	4	48384	30,966	2.56	6	49352	31,585	3.8400
	DUNDAS STREET W.	CLAYHILL ROAD	MASON HEIGHTS	0.46	4	43800	20,148	1.84	4	29300	13,478	1.84	4	28900	13,294	1.84	4	44467	20,455	1.84	4	44800	20,608	1.84	4	45696	21,020	1.84	4	46592	21,432	1.84	4	47488	21,844	1.84	4	48384	22,257	1.84	4	49352	22,702	1.8400
15087	DUNDAS STREET W.	MASON HEIGHTS	HURONTARIO ST.	0.95	4	43800	41,610	3.80	4	29300	27,835	3.80	4	37100	35,245	3.80	4	44467	42,243	3.80	4	44800	42,560	3.80	4	45696	43,411	3.80	4	46592	44,262	3.80	4	47488	45,114	3.80	4	48384	45,965	3.80	4	49352	46,884	3.8000
14026	DUNDAS ST. E.	HURONTARIO ST.	BURSLEM RD.	1.18	4	29000	34,220	4.72	4	33400	39,412	4.72	4	30800	36,344	4.72	4	44200	52,156	4.72	4	44200	52,156	4.72	4	36200	42,716	4.72	4	35523	41,918	4.72	4	34847	41,119	4.72	4	34170	40,321	4.72	4	34853	41,127	4.7200
14090	DUNDAS ST. E.	AT C.P.R.	BURSLEM RD.	0.51	4	35800	18,258	2.04	4	37200	18,972	2.04	4	38600	19,686	2.04	4	38500	19,635	2.04	4	39400	20,094	2.04	4	40188	20,496	2.04	4	40976	20,898	2.04	4	41764	21,300	2.04	4	42552	21,702	2.04	4	43403	22,136	2.0400
14091	DUNDAS ST. E.	CAWTHRA RD.	AT C.P.R.	0.40	4	35800	14,320	1.60	4	33300	13,320	1.60	4	38600	15,440	1.60	4	38200	15,280	1.60	4	39400	15,760	1.60	4	40188	16,075	1.60	4	40976	16,390	1.60	4	41764	16,706	1.60	4	42552	17,021	1.60	4	43403	17,361	1.6000
13020	DUNDAS ST. E.	CAWTHRA RD.	DIXIE RD.	2.10	6	41400	86,940	12.60	6	38200	80,220	12.60	6	44000	92,400	12.60	6	43667	91,700	12.60	6	44800	94,080	12.60	6	43598	91,555	12.60	6	42395	89,030	12.60	6	41193	86,504	12.60	6	39990	83,979	12.60	6	40790	85,659	12.6000
12007	DUNDAS ST. E.	DIXIE RD.	ETOBICOKE CREEK	2.58	6	56700	146,286	15.48	6	46800	120,744	15.48	6	47300	122,034	15.48	6	50600	130,548	15.48	6	50600	130,548	15.48	6	51500	132,870	15.48	6	44650	115,197	15.48	6	47300	122,034	15.48	6	56510	145,796	15.48	6	57640	148,712	15.4800
27073	EASTGATE PARKWAY	CAWTHRA RD.	TOMKEN RD.	0.80	4	31200	24,960	3.20	4	32400	25,920	3.20	4	32600	26,080	3.20	4	36800	29,440	3.20	4	36800	29,440	3.20	4	34100	27,280	3.20	4	33990	27,192	3.20	4	33880	27,104	3.20	4	33770	27,016	3.20	4	34445	27,556	3.2000
27074	EASTGATE PARKWAY	TOMKEN RD.	DIXIE RD.	1.22	4	25400	30,988	4.88	4	26200	31,964	4.88	4	25600	31,232	4.88	4	27400	33,428	4.88	4	28400	34,648	4.88	4	12900	15,738	4.88	4	17210	20,996	4.88	4	21520	26,254	4.88	4	25830	31,513	4.88	4	26347	32,143	4.8800
26061	EASTGATE PARKWAY	DIXIE RD.	FIELDGATE DR.	0.98	4	26700	26,166	3.92	4	28100	27,538	3.92	4	29500	28,910	3.92	4	29925	29,327	3.92	4	31000	30,380	3.92	4	31620	30,988	3.92	4	32240	31,595	3.92	4	32860	32,203	3.92	4	33480	32,810	3.92	4	34150	33,467	3.9200
26007	EASTGATE PARKWAY	EGLINTON AVE.	FIELDGATE DR.	0.64	4	13500	8,640	2.56	4	15400	9,856	2.56	4	16300	10,432	2.56	4	16600	10,624	2.56	4	16600	10,624	2.56	4	16600	10,624	2.56	4	16760	10,726	2.56	4	16920	10,829	2.56	4	17080	10,931	2.56	4	17422	11,150	2.5600
43025	EDWARDS BLVD.	SOUTH END	AMBASSADOR DR.	0.95	4	3500	3,325	3.80	4	4250	4,038	3.80	4	5000	4,750	3.80	4	5225	4,964	3.80	4	5800	5,510	3.80	4	5916	5,620	3.80	4	6032	5,730	3.80	4	6148	5,841	3.80	4	6264	5,951	3.80	4	6389	6,070	3.8000
43026	EDWARDS BLVD.	AMBASSADOR DR.	0.46km NORTH	0.46	4	3500	1,610	1.84	4	4250	1,955	1.84	4	5000	2,300	1.84	4	5225	2,404	1.84	4	5800	2,668	1.84	4	5916	2,721	1.84	4	6032	2,775	1.84	4	6148	2,828	1.84	4	6264	2,881	1.84	4	6389	2,939	1.8400
43027	EDWARDS BLVD.	.46km N of AMBASSADOR DR.	DERRY RD.	0.64	4	3500	2,240	2.56	4	4250	2,720	2.56	4	5000	3,200	2.56	4	5225	3,344	2.56	4	5800	3,712	2.56	4	5916	3,786	2.56	4	6032	3,860	2.56	4	6148	3,935	2.56	4	6264	4,009	2.56	4	6389	4,089	2.5600
51004	EDWARDS BLVD.	DERRY RD.	NORTH END	0.68	4	3500	2,380	2.72	4	4250	2,890	2.72	4	5000	3,400	2.72	4	5225	3,553	2.72	4	5800	3,944	2.72	4	5916	4,023	2.72	4	6032	4,102	2.72	4	6148	4,181	2.72	4	6264	4,260	2.72	4	6389	4,345	2.7200
58003	EGLINTON AVENUE W.	WINSTON CHURCHILL BLVD.	NINTH LINE	2.02	2	6100	12,322	4.04	2	13400	27,068	4.04	2	12000	24,240	4.04	2	12633	25,519	4.04	4	15900	32,118	8.08	4	19000	38,380	8.08	4	19380	39,148	8.08	4	19760	39,915	8.08	4	20140	40,683	8.08	4	20543	41,496	8.0800
32051	EGLINTON AVENUE W.	GLEN ERIN DR.	WINSTON CHURCHILL BLVD.	0.68	4	12500	8,500	2.72	4	13700	9,316	2.72	4	15300	10,404	2.72	4	15167	10,313	2.72	4	16500	11,220	2.72	4	19600	13,328	2.72	4	22350	15,198	2.72	4	22797	15,502	2.72	6	23244	15,806	4.08	6	23709	16,122	4.0800
32050	EGLINTON AVENUE W.	ERIN MILLS PKWY.	GLEN ERIN DR.	0.68	4	12500	8,500	2.72	4	13900	9,452	2.72	4	15300	10,404	2.72	4	15500	10,540	2.72	4	16500	11,220	2.72	4	16830	11,444	2.72	4	17160	11,669	2.72	4	17490	11,893	2.72	6	17820	12,118	4.08	6	18176	12,360	4.0800
31023	EGLINTON AVENUE W.	CREDIT VALLEY RD.	ERIN MILLS PKWY.	0.48	6	25400	12,192	2.88	6	28000	13,440	2.88	6	30100	14,448	2.88	6	32900	15,792	2.88	6	32900	15,792	2.88	6	29900	14,352	2.88	6	29870	14,338	2.88	6	30465	14,623	2.88	6	31060	14,909	2.88	6	31681	15,207	2.8800
31007	EGLINTON AVENUE W.	MISSISSAUGA RD.	CREDIT VALLEY RD.	0.90	6	25400	22,860	5.40	6	27750	24,975	5.40	6	30100	27,090	5.40	6	31025	27,923	5.40	6	32900	29,610	5.40	6	32440	29,196	5.40	6	31980	28,782	5.40	6	31520	28,368	5.40	6	31060	27,954	5.40	6	31681	28,513	5.4000
31081	EGLINTON AVENUE W.	HEWICK'S LANE	MISSISSAUGA RD.	0.56	6	33900	18,984	3.36	6	41700	23,352	3.36	6	39300	22,008	3.36	6	45400	25,424	3.36	6	45400	25,424	3.36	6	35600	19,936	3.36	6	38410	21,510	3.36	6	33770	18,911	3.36	6	29130	16,313	3.36	6	29713	16,639	3.3600
31082	EGLINTON AVENUE W.	C.P.R. CROSSING	HEWICK'S LANE	0.39	6	33900	13,221	2.34	6	36600	14,274	2.34	6	39300	15,327	2.34	6	42525	16,585	2.34	6	45400	17,706	2.34	6	39400	15,366	2.34	6	38410	14,980	2.34	6	37770	13,170	2.34	6	29130	11,361	2.34	6	29713	11,588	2.3400
30080	EGLINTON AVENUE W.	CREDITVIEW RD.	C.P.R. CROSSING	0.41	6	33900	13,899	2.46	6	36600	15,006	2.46	6	39300	16,113	2.46	6	42525	17,435	2.46	6	45400	18,614	2.46	6	41333	16,946	2.46	6	37265	15,279	2.46	6	33198	13,611	2.46	6	29130	11,943	2.46	6	29713	12,182	2.4600
30014	EGLINTON AVENUE W.	MAVIS RD.	CREDITVIEW RD.	2.08	6	40100	83,408	12.48	6	37000	76,960	12.48	6	37100	77,168	12.48	6	34300	71,344	12.48	6	34300	71,344	12.48	6	45300	94,224	12.48	6	38685	80,465	12.48	6	32070	66,706	12.48	6	32711	68,040	12.48	6	33366	69,401	12.4800
29004	EGLINTON AVENUE W.	HURONTARIO ST.	MAVIS RD.	2.14	6	31400	67,196	12.84	6	34000	72,760	12.84	6	30500	65,270	12.84	6	45300	96,942	12.84	6	45300	96,942	12.84	6	31800	68,052	12.84	6	30815	65,944	12.84	6	29830	63,836	12.84	6	32920	70,449	12.84	6	33578	71,858	12.8400
28010	EGLINTON AVE. E.	150M E OF KENNEDY RD.	HURONTARIO ST.	1.50	4	26300	39,450	6.00	4	30400	45,600	6.00	4	27100	40,650	6.00	4	23400	35,100	6.00	4	23400	35,100	6.00	4	27700	41,550	6.00	4	28254	42,381	6.00	6	28808	43,212	9.00	6	29362	44,043	9.00	6	29949	44,924	9.0000
28009	EGLINTON AVE. E.	720M E. OF KENNEDY RD./Hwy 403	150M E. OF KENNEDY RD.	0.57	4	42100	23,997	2.28	4	39000	22,230	2.28	4	43800	24,966	2.28	4	41000	23,484	2.28	4	41000	23,484	2.28	4	41200	23,484	2.28	4	42440	24,191	2.28	6	43680	24,898	3.42	6	44920	25,604	3.42	6	45818	26,116	3.4200
27005	EGLINTON AVE. E.	TOMKEN RD.	HWY 403	0.76	4	33900	23,408	3.04	4	26800	20,368	3.04	6	32300	32,148	3.04	6	26800	20,368	3.04	6	41200	31,312	4.56	6	25500	19,380	4.56	6	31973	24,300	4.56	6	38447	29,219	4.56	6	44920	34,139	4.56	6	45818	34,822	4.5600
27004	EGLINTON AVE. E.	DIXIE RD.	TOMKEN RD.	1.24	4	31900	39,556	4.96	4	31200	38,688	4.96	4	33000	40,920	4.96	4	34700	43,028	4.96	4	34700	43,028	7.44	6	23300	28,892	7.44	6	38040	47,170	7.44	6	40845	50,648	7.44	6	43650	54,126	7.44	6	44523	55,209	7.4400
26008	EGLINTON AVE. E.	ETOBICOKE CREEK	DIXIE RD.	1.56	4	31200	49,672	6.24	4	31000	48,360	6.24	6	32100	50,076	9.36	6	33100	51,636	9.36	6	33100	51,636	9.36	6	31500	49,140	9.36	6	31910	49,780	9.36	6	32320	50,421	9.36	6	32860	51,262	9.36	6	33517	52,287	9.3600
34020	EGLINTON AVE. E.	INDIAN LINE	ETOBICOKE CREEK	2.52	4	30700	77,364	10.08	4	30500	76,860	10.08	4	27900	70,308	10.08	4	29233	73,668	10.08	4	28500	71,820	10.08	4	29070	73,256	10.08	4	29640	74,693	10.08	4	30210	76,129	10.08	4	30780	77,566	10.08	4	31396	79,117	10.0800
17005	FOWLER DR.	ERIN MILLS PARKWAY	NORTH SHERIDAN WAY	0.44	2	4200	1,848	0.88	2	4250	1,870	0.88	2	4300	1,892	0.88	2	4350	1,914	0.88	2	4400	1,936	0.88	2	4488	1,975	0.88	2	4576	2,013	0.88	2	4664	2,052	0.88	2	4752	2,091	0.88	2	4847	2,133	0.8800
17074	FOWLER DR.	LINCOLN GREEN WAY	NORTH SHERIDAN WAY	0.25	2	4200	1,050	0.50	2	4250	1,063	0.50	2	4300	1,075	0.50	2	4350	1,088	0.50	2	4400	1,100	0.50	2	4488	1,122	0.50	2	4576	1,144	0.50	2	4664	1,166	0.50	2	4752	1,188	0.50	2	4847	1,212	0.5000
25017	GLEN ERIN DR.	COLLEGEWAY	DUNDAS ST.	1.28	4	13600	17,408	5.12	4	14700	18,816	5.12	4	14000	17,920	5.12	4	14000	17,920	5.12	4	14000	17,920	5.12	4	12600	16,128	5.12	4	13705	17,542	5.12	4	14810	18,957	5.12	4	13680	17,510	5.12	4	13954	17,861	5.1200
25008	GLEN ERIN DR.	COLLEGEWAY	ROGERS RD.	0.86	4	14900	12,814	3.44	4	14900	12,814	3.44	4	15400	13,244	3.44	4	15500	13,330	3.44	4	15800	13,588	3.44	4	16116	13,860	3.44	4	16432	14,132	3.44	4	16748	14,403	3.44	4	17064	14,675	3.44	4	17405	14,969	3.4400
32004	GLEN ERIN DR.	ROGERS RD.	FOLKWAY DR.	0.73	4	10400	7,592	2.92	4	10500	7,665	2.92	4	11700	8,541	2.92	4	11667	8,517	2.92	4	12300	8,979	2.92	4	12523	9,141	2.92	4	12745	9,304	2.92	4	12968	9,466	2.92	4	13190	9,629	2.92	4	13454	9,821	2.9200
32049	GLEN ERIN DR.	FOLKWAY DR.	HWY. 403	0.36	4	10400	3,744	1.44	4	11050	3,978	1.44	4	11700	4,212	1.44	4	11675	4,203	1.44	4	12100	4,356

					1999				2000				2001				2002				2003				2004				2005				2006				2007				2008			
Sec. No	Name	From	To	Length (km)	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms
14025	KING ST.	HURONTARIO ST.	CAMILLA RD	0.51	2	5600	2,856	1.02	2	5750	2,933	1.02	2	5900	3,009	1.02	2	5900	3,009	1.02	2	6000	3,060	1.02	2	6120	3,121	1.02	2	6240	3,182	1.02	2	6360	3,244	1.02	2	6480	3,305	1.02	2	6610	3,371	1.0200
21002	KIRWIN AVE	HURONTARIO ST.	DUNDAS ST	0.85	4	9100	7,735	3.40	4	9400	7,990	3.40	4	9700	8,245	3.40	4	9775	8,309	3.40	4	10000	8,500	3.40	4	10200	8,670	3.40	4	10400	8,840	3.40	4	10600	9,010	3.40	4	10800	9,180	3.40	4	11016	9,364	3.4000
4003	LAKESHORE RD.	WINSTON CHURCHILL BLVD.	SOUTHDOWN RD.	2.00	2	7800	15,600	4.00	2	11600	23,200	4.00	2	8000	16,000	4.00	2	9400	18,800	4.00	2	9400	18,800	4.00	2	8500	17,000	4.00	2	8285	16,570	4.00	2	8070	16,140	4.00	2	8231	16,463	4.00	2	8396	16,792	4.0000
3014	LAKESHORE RD.	SOUTHDOWN RD.	MEADOWWOOD RD.	1.14	4	25500	29,070	4.56	4	28700	32,718	4.56	4	28400	32,376	4.56	4	28367	32,338	4.56	4	29800	33,972	4.56	4	30396	34,651	4.56	4	30992	35,331	4.56	4	31588	36,010	4.56	4	32184	36,690	4.56	4	32828	37,424	4.5600
3013	LAKESHORE RD.	SILVERBIRCH TRAIL	MEADOWWOOD RD.	0.70	4	23100	16,170	2.80	4	20900	14,630	2.80	4	22400	15,680	2.80	4	22900	16,030	2.80	4	22800	15,960	2.80	4	23256	16,279	2.80	4	23712	16,598	2.80	4	24168	16,918	2.80	4	24624	17,237	2.80	4	25116	17,582	2.8000
3054	LAKESHORE RD.	BEXHILL RD.	SILVERBIRCH TRAIL	0.18	4	23100	4,158	0.72	4	22750	4,095	0.72	4	22400	4,032	0.72	4	22875	4,118	0.72	4	22800	4,104	0.72	4	23256	4,186	0.72	4	23712	4,268	0.72	4	24168	4,350	0.72	4	24624	4,432	0.72	4	25116	4,521	0.7200
2008	LAKESHORE RD.	BEXHILL RD.	OWENWOOD DR.	0.23	4	23100	5,313	0.92	4	22750	5,233	0.92	4	22400	5,152	0.92	4	22875	5,261	0.92	4	22800	5,244	0.92	4	23256	5,349	0.92	4	23712	5,454	0.92	4	24168	5,559	0.92	4	24624	5,664	0.92	4	25116	5,777	0.9200
2006	LAKESHORE RD.	BALBOA DR.	OWENWOOD DR.	1.63	4	21200	34,556	6.52	4	17900	29,177	6.52	4	22000	35,860	6.52	4	22067	35,969	6.52	4	22500	36,675	6.52	4	17600	28,688	6.52	4	17952	29,262	6.52	4	18304	29,836	6.52	4	18656	30,409	6.52	4	19029	31,017	6.5200
2003	LAKESHORE RD.	BALBOA DR.	GODFREY LANE	0.40	4	24700	9,880	1.60	4	25200	10,080	1.60	4	25700	10,280	1.60	4	25825	10,330	1.60	4	26200	10,480	1.60	4	26724	10,690	1.60	4	27248	10,899	1.60	4	27772	11,109	1.60	4	28296	11,318	1.60	4	28862	11,545	1.6000
8025	LAKESHORE RD.	STAVEBANK RD.	GODFREY LANE	1.52	4	34500	52,440	6.08	4	39500	60,040	6.08	4	32700	49,704	6.08	4	32000	48,640	6.08	4	32000	48,640	6.08	4	31300	47,576	6.08	4	31905	48,496	6.08	4	32510	49,415	6.08	4	33440	50,829	6.08	4	34109	51,845	6.0800
8027	LAKESHORE RD.	HURONTARIO ST.	STAVEBANK RD.	0.44	4	24500	10,780	1.76	4	39500	17,380	1.76	4	32700	14,388	1.76	4	32001	14,080	1.76	4	17700	7,788	1.76	4	22637	9,960	1.76	4	27573	12,132	1.76	4	32510	14,304	1.76	4	33823	14,882	1.7600
7006	LAKESHORE RD.	HURONTARIO ST.	SENECA AVE.	1.06	4	28200	29,892	4.24	4	21700	23,002	4.24	4	28800	30,528	4.24	4	29000	30,740	4.24	4	29000	30,740	4.24	4	30500	32,330	4.24	4	28420	30,125	4.24	4	26340	27,920	4.24	4	26867	28,479	4.24	4	27404	29,048	4.2400
7005	LAKESHORE RD.	SENECA AVE.	CAWTHRA RD.	0.97	4	26800	25,996	3.88	4	22500	21,825	3.88	4	26300	25,511	3.88	4	28267	27,419	3.88	4	29000	28,130	3.88	4	28113	27,270	3.88	4	27227	26,410	3.88	4	26340	25,550	3.88	4	26867	26,061	3.88	4	27404	26,582	3.8800
1006	LAKESHORE RD.	CAWTHRA RD.	EAST AVE.	0.36	4	26800	9,648	1.44	4	25400	9,144	1.44	4	27000	9,720	1.44	4	33933	12,216	1.44	4	37500	13,500	1.44	4	38250	13,770	1.44	4	39000	14,040	1.44	4	39750	14,310	1.44	4	40500	14,580	1.44	4	41310	14,872	1.4400
1004	LAKESHORE RD.	ETOBICOKE CR.	EAST AVE.	2.30	4	23800	54,740	9.20	4	28300	65,090	9.20	4	25500	58,650	9.20	4	37500	86,250	9.20	4	37500	86,250	9.20	4	27900	64,170	9.20	4	26200	60,260	9.20	4	26724	61,465	9.20	4	27248	62,670	9.20	4	27793	63,924	9.2000
18002	LEANNE BLVD.	ERIN MILLS PARKWAY	NORTH SHERIDAN WAY	0.64	4	6600	4,224	2.56	4	6700	4,288	2.56	4	6800	4,352	2.56	4	6825	4,368	2.56	4	6900	4,416	2.56	4	7038	4,504	2.56	4	7176	4,593	2.56	4	7314	4,681	2.56	4	7452	4,769	2.56	4	7601	4,865	2.5600
17016	LINCOLN GREEN WAY	ERIN MILLS PARKWAY	FOWLER DR.	0.25	2	4200	1,050	0.50	2	4250	1,063	0.50	2	4300	1,075	0.50	2	4350	1,088	0.50	2	4400	1,100	0.50	2	4488	1,122	0.50	2	4576	1,144	0.50	2	4664	1,166	0.50	2	4752	1,188	0.50	2	4847	1,212	0.5000
10014	LORNEPARK RD.	TRUSCOTT DR.	INDIAN RD.	0.56	2	8700	4,872	1.12	2	8900	4,984	1.12	2	9100	5,096	1.12	2	9225	5,166	1.12	2	9400	5,264	1.12	2	9588	5,369	1.12	2	9776	5,475	1.12	2	9964	5,580	1.12	2	10152	5,685	1.12	2	10355	5,799	1.1200
38010	MAIN STREET	QUEEN STREET	ALBERT STREET	0.53	2	10600	5,618	1.06	2	11050	5,857	1.06	2	11500	6,095	1.06	2	11575	6,135	1.06	2	11900	6,307	1.06	2	12138	6,433	1.06	2	12376	6,559	1.06	2	12614	6,685	1.06	2	12852	6,812	1.06	2	13109	6,948	1.0600
	MARITZ DRIVE	DERRY ROAD	LONGSIDE DRIVE	0.45	0	0	0	0.00	0	0	0	0.00	0	0	0	0.00	0	0	0	0.00	4	1500	675	1.80	4	1530	689	1.80	4	1560	702	1.80	4	1590	716	1.80	4	1620	729	1.80	4	1652	744	1.8000
	MARITZ DRIVE	LONGSIDE DRIVE	COURTNEYPARK DR.	0.97	0	0	0	0.00	0	0	0	0.00	0	0	0	0.00	0	0	0	0.00	4	1500	1,455	3.88	4	1530	1,484	3.88	4	1560	1,513	3.88	4	1590	1,542	3.88	4	1620	1,571	3.88	4	1652	1,603	3.8800
	MATHESON BLVD. W.	TERRY FOX WAY	MAVIS RD.	0.70	0	0	0	0.00	0	0	0	0.00	4	16500	11,550	2.80	4	17052	11,936	2.80	4	17400	12,180	2.80	4	17748	12,424	2.80	4	18096	12,667	2.80	4	18444	12,911	2.80	4	18792	13,154	2.80	4	19168	13,417	2.8000
37112	MATHESON BLVD. W.	MCLAUGHLIN RD.	MAVIS RD.	0.70	4	14700	10,290	2.80	4	20500	14,350	2.80	4	16500	11,550	2.80	4	31900	22,330	2.80	4	16500	11,550	2.80	4	18000	12,600	2.80	4	17670	12,369	2.80	4	17340	12,138	2.80	4	17870	12,509	2.80	4	18227	12,759	2.8000
37087	MATHESON BLVD. W.	MCLAUGHLIN RD.	HURONTARIO ST.	1.35	4	20200	27,270	5.40	4	22900	30,915	5.40	4	25600	34,560	5.40	4	28975	39,116	5.40	4	31900	43,065	5.40	4	22200	29,970	5.40	4	22527	30,411	5.40	4	22853	30,852	5.40	4	23180	31,293	5.40	4	23644	31,919	5.4000
36008	MATHESON BOULEVARD E.	HURONTARIO ST.	KENNEDY RD.	1.40	4	24700	34,580	5.60	4	24300	34,020	5.60	4	28700	40,180	5.60	4	28700	40,180	5.60	4	28700	40,180	5.60	4	25700	35,980	5.60	4	25670	35,938	5.60	4	25640	35,896	5.60	4	25610	35,854	5.60	4	26122	36,571	5.6000
36003	MATHESON BOULEVARD E.	KENNEDY RD.	60mW. OF TIMBERLEA BLVD.	0.98	4	25800	25,284	3.92	4	27400	26,852	3.92	4	28400	27,832	3.92	4	29900	29,302	3.92	4	29900	29,302	3.92	4	30900	30,282	3.92	4	30870	30,253	3.92	4	30840	30,223	3.92	4	30610	29,998	3.92	4	31222	30,598	3.9200
36013	MATHESON BOULEVARD E.	TOMKEN RD.	60MW. OF TIMBELEA BLVD.	0.41	4	25800	10,578	1.64	4	27400	11,234	1.64	4	28400	11,644	1.64	4	29900	12,259	1.64	4	29900	12,259	1.64	4	30078	12,332	1.64	4	30255	12,405	1.64	4	30433	12,477	1.64	4	30610	12,550	1.64	4	31222	12,801	1.6400
35003	MATHESON BOULEVARD E.	TOMKEN RD.	LITTLE ETOBICOKE CREEK	0.31	4	19100	5,921	1.24	4	21400	6,634	1.24	4	22800	7,068	1.24	4	22800	7,068	1.24	4	22800	7,068	1.24	4	22800	7,068	1.24	4	22837	7,079	1.24	4	22873	7,091	1.24	4	22910	7,102	1.24	4	23368	7,244	1.2400
35001	MATHESON BOULEVARD E.	LITTLE ETOBICOKE CREEK	DIXIE RD.	1.06	4	23200	24,592	4.24	4	24300	25,758	4.24	4	25300	26,818	4.24	4	22800	24,168	4.24	4	22800	24,168	4.24	4	25400	26,924	4.24	4	25460	26,988	4.24	4	25520	27,051	4.24	4	21130	22,398	4.24	4	21553	22,846	4.2400
	MATHESON BOULEVARD E.	E OF DIXIE RD.	CREEKBANK RD.	0.95	0	0	0	0.00	0	15700	14,915	0.00	4	14400	13,680	3.80	4	14400	13,680	3.80	4	14400	13,680	3.80	4	18200	17,290	3.80	4	18564	17,636	3.80	4	18928	17,982	3.80	4	19292	18,327	3.80	4	19678	18,694	3.8000
	MATHESON BOULEVARD E.	CREEKBANK RD.	EXPLORER DR.	0.60	4	15500	9,300	2.40	4	16350	9,810	2.40	4	17200	10,320	2.40	4	16100	9,660	2.40	4	16100	9,660	2.40	4	18600	11,160	2.40	4	19540	11,724	2.40	4	19931	11,958	2.40	4	20322	12,193	2.40	4	20728	12,437	2.4000
34010	MATHESON BOULEVARD E.	EXPLORER DR (W. END)	20mE OF ORBITOR DRIVE	1.30	4	8400	10,920	5.20	4	9500	12,350	5.20	4	13300	17,290	5.20	4	14033	18,243	5.20	4	16850	21,905	5.20	4	17187	22,343	5.20	4	17524	22,781	5.20	4	17861	23,219	5.20	4	18198	23,657	5.20	4	18562	24,131	5.2000
34004	MATHESON BOULEVARD E.	ORBITOR DR.	240mSE.OF COMMERCE BLVD.	1.38	4	18100	24,978	5.52	4	9500	13,110	5.52	4	19500	26,910	5.52	4	17767	24,518	5.52	4	17600	24,288	5.52	4	17952	24,774	5.52	4	18304	25,260	5.52	4	18656	25,745	5.52	4	19008	26,231	5.52	4	19388	26,756	5.5200
	MATHESON BOULEVARD E.	240m SE of COMMERCE BLVD.	EGLINTON AVE.	0.35	3	18100	6,335	1.05	3	18000	6,300	1.05	3	19500	6,825	1.05	3	17600	6,160	1.05	3	20200	7,070	1.05	3	20400	7,140	1.05	3	23080	8,078	1.05	3	22325	7,814	1.05	3	21570	7,550	1.05	3	22001	7,700	1.0500
15020	MAVIS RD.	QUEENSWAY	DUNDAS ST.	1.10	4	27700	30,470	4.40	4	26200	28,820	4.40	4	23900	26,290	4.40	4	25500	28,050	4.40	4	24400	26,840	4.40	4	25500	28,050	4.40	4	26805	29,486	4.40	4	28110	30,921	4.40	4	28280	31,108	4.40	4	28846	31,730	4.4000
	MAVIS RD.	DUNDAS ST.	CPR CROSSING	0.70	4	41800	29,260	2.80	4	30600	21,420	2.80	4	40100	28,070	2.80	4	50133	35,093	2.80	6	54300	38,010	4.20	6	55386	38,770	4.20	6	56472	39,530	4.20	6	57558	40,291	4.20	6	58644	41,051	4.20	6	59817	41,872	4.2000
23001	MAVIS RD.	CPR XING	CENTRAL PARKWAY	0.60	4	41800	25,080	2.40	4	40100	24,060	2.40	4	40100	24,060	2.40	4	34300	20,580	2.40	4	54300	32,580	2.40	4	54300	32,580	2.40	4	49437	29,662	2.40	4	44573	26,744	2.40	4	39710	23,826	2.40	5	40504	24,303	3.0000
	MAVIS RD.	CENTRAL PARKWAY EAST	BURNHAMTHORPE RD.	0.70	4	41800	29,260	2.80	4	40100	28,070	2.80	4	40100	28,070	2.80	4	34300	24,010	2.80	4	54300	38,010	2.80	4	54300	38,010	2.80	4	49437	34,606	2.80	4	44573	31,201	2.80	4	39710	27,797	2.80	4	40504	28,353	2.8000
30001	MAVIS RD.	BURNHAMTHORPE RD.	HWY. 403	1.00	6	57200	57,200	6.00	6	68000	68,000	6.00	6	69600	69,600	6.00	6	70900	70,900	6.00	6	70900	70,900	6.00	6	61500	61,500	6.00	6	70400	70,400	6.00	6	61975	61,975	6.00	6	53550	53,550	6.00	6	54621	54,621	6.0000
30007	MAVIS RD.	HWY. 403	EGLINTON AVE. W.	1.00	6	48800	48,800	6.00	6	56300	56,300	6.00	6	56300	56,300	6.00	6	64800	64,800	6.00	6	64800	64,800	6.00	6	64000	64,000	6.00	6	66090	66,090	6.00	6	68180	68,180	6.00	6	70270	70,270	6.00	6	71675	71,675	6.0000
37097	MAVIS RD.	EGLINTON AVE. W.	WINTERTON WAY	0.59	4	29600	17,464	2.36	4	28900	17,051	2.36	4	40800	24,072	2.36	4	46400	27,376	2.36	4	46400	27,376	2.36	4	40500	23,895	2.36	4	41795	24,659	2.36	4	43090	25,423	2.36	4	42980	25,358	2.36	6	43840	25,865	3.5400
37091	MAVIS RD.	RICHBOROUGH AVE.	WINTERTON WAY	0.30	4	29600	8,791	1.19	4	35200	10,454	1.19	4	40800	12,118	1.19	4	39425	11,709	1.19	4	42700	12,682	1.19	4	43554	12,936	1.19	4	44408	13,189	1.19	4	45262	13,443	1.19	4	46116	13,696	1.19	6	47038	13,970	1.7820
37098	MAVIS RD.	RICHBOROUGH AVE.	BRITANNIA RD. W.	2.20	4	20800	45,760	8.80	4	38400	84,480	8.80	4	34900	76,780	8.80	4	39000	85,800	8.80	4	39000	85,800	8.80	4	39000	85,800	8.80	4	39110	86,042	8.80	4	39450	86,790	8.80	4	39790	87,538	8.80	6	40586	89,289	13.2000
	MAVIS RD.	BRITANNIA RD.	HWY 401	1.40	6	23000	32,200	8.40	6	38300	53,620	8.40	6	54400	76,160	8.40	6	52400	73,360	8.40	6	52400	73,360	8.40	6	55900	78,260	8.40	6	58230	81,522	8.40	6	52585	73,619	8.40	6	46940	65,716	8.40	6	47879	67,030	8.4000
	MAVIS RD.	HWY 401	COUTNEYPARK DR.	0.50	4	16500	8,250	2.00	4	23800	11,900	2.00	4	34900	17,450	2.00	4	34500	17,250	2.00	4	34500	17,250	2.00	4	32700	16,350	2.00	4	32420	16,210	2.00	4	36660	18,330	2.00	4	40900	20,450	2.00	4	41718	20,859	2.0000
	MAVIS RD.	COURTNEYPARK DR.	DERRY ROAD	1.30	4	16500	21,450	5.20	4	23800	30,940	5.20	4	34900	45,370	5.20	4	34500	44,850	5.20	4	34500	44,850	5.20	4	32700	42,510	5.20	4	32420	42,146	5.20	4	36660	47,658	5.20	4	40900	53,170	5.20	4	41718	54,233	5.2000
	MAVIS RD.	DERRY RD.	HWY 407	1.45	4	19400	28,130	5.80	4	19600	28,420	5.80	4	19800	28,710	5.80	4	19800	28,710	5.80	4	19000	27,550	5.80	4	21700	31,465	5.80	4	27570	39,977	5.80	4	26393	39,056	5.80	4	26304	39,135	5.80	4	26826	38,899	5.8000
37050	McLAUGHLIN RD.	BRISTOL RD.	EGLINTON AVE.	0.90	4	8200	7,380	3.60	4	12800	11,520	3.60	4	11300	10,170	3.60	4	15500	13,950	3.60	4	15500	13,950	3.60	4	14400	12,960	3.60	4	14115	12,704	3.60	4	13830	12,447	3.60	4	14107	12,696	3.60	4	14389	12,950	3.6000
37049	McLAUGHLIN RD.	BRISTOL RD.	367mN THEREOF	0.37	2	8200	3,009	0.73	2	9750	3,578	0.73	2	11300	4,147	0.73	2	10675	3,918	0.73	2	11500	4,221	0.73	2	11730	4,305	0.73	2	11960	4,389	0.73	2	12190	4,474	0.73	2	12420	4,558	0.73	2	12668	4,649	0.7340
37123	McLAUGHLIN RD.	367.M. NORTH OF BRISTOL RD.	CEREMONIAL DR.	0.36	2	8200	2,952	0.72	2	9750	3,510	0.72	2	11300	4,068	0.72	2	10675	3,843	0.72	2	11500	4,140	0.72	2	11730	4,223	0.72	2	11960	4,306	0.72	2	12190	4,388	0.72	2	12420	4,471	0.72	2	12668	4,561	0.7200
37001	MCLAUGHLIN RD.	BRITANNIA RD.	CEREMONIAL DR. N.	1.43	2	8200	11,751	2.87	2	9750	13,972	2.87	2	11300	16,193	2.87	2	10675	15,297	2.87	2	11500	16,488	2.87	2	11730	16,809	2.87	2	11960	17,139	2.87	2	12190	17,468	2.87	2	12420	17,798	2.87	2	12668	18,154	2.8660
44002	McLAUGHLIN RD.	BRITANNIA RD.	900m N/LY	0.90	4	15100	13,590	3.60	4	11700	10,530	3.60	4	11700	10,530	3.60	4	13300	11,970	3.60	4	13300	11,970	3.60	4	16300	14,670	3.60	4	18053	16,248	3.60	4	19807	17,826	3.60	4	21560	19,404	3.60	4	21991	19,792	3.6000
44003	McLAUGHLIN RD.	900mN. OF BRITANNIA RD.	320m THEREOF	0.32	2	15100	4,832	0.64	2	11700	3,744	0.64	2	11700	3,744	0.64	2	13300	4,256	0.64	2	13300	4,256	0.64	2	16300	5,216	0.64	2	19040	6,093	0.64	2	21780	6,970	0.64	2	21560	6,899	0.64	2	21991	7,037	0.6400
44004	McLAUGHLIN RD.	DERRY RD.	1.8km S'LY	1.80	2	15100	27,180	3.60	2	13400	24,120	3.60	2	11700	21,060	7.20	4	13750	24,750	7.20	4	13300	23,940	7.20	4	16300	29,340	7.20	4	18053	32,496	7.20	4	19807	35,652	7.20	4	21560	38,808	7.20	4	21991	39,584	7.2000
52001	McLAUGHLIN RD.	DERRY RD.	N CITY LIMITS	1.06	2	21700	23,002	2.12	2	16900	17,914	2.12	4	15600	16,536	4.24	4	22600	23,956	4.24	4	22600	23,956	4.24	4	29800	31,588	4.24	4	30396	32,220	4.24	4	30992	32,852	4.24	4	31588	33,483	4.24	4	32220	34,153	4.2400
54035	MEADOWPINE BLVD	82KM W.OF FIFTH LINE	BRAMPTON T/L	0.70	4	12700	8,890	2.80	4	12700	8,890	2.80	4	6100	4,270	2.80	4	41000	28,700	2.80	4	6400	4,480	2.80	4	6800	4,760	2.80	4	6936	4,855	2.80	4	7072	4,950	2.80	4	7208	5,046	2.80	4	7352	5,147	2.8000
54021	MEADOWPINE BLVD	FIFTH LINE	72KM WEST	0.82	4	12700	10,427	3.28	4	12700	10,427	3.28	4	6100	5,008	3.28	4	41000	33,661	3.28	4	7000	5,747	3.28	4	7140	5,862	3.28	4	7280	5,977	3.28	4	7420	6,092	3.28	4	7560	6,207	3.28	4	7711	6,331	3.2840
54031	MEADOWPINE BLVD	FIFTH LINE	EAST END/MULLET CREEK	0.55	4	2600	1,430	2.20	4	2650	1,458	2.20	4	2700	1,485	2.20	4	2750	1,513	2.20	4	2800	1,540	2.20	4	2856	1,571	2.20	4	2912	1,602	2.20	4	2968	1,632	2.20	4	3024	1,663	2.20	4	3084	1,696	2.2000
53010	MEADOWVALE BLVD	MISSISSAUGA RD	DERRY ROAD	0.90	4	4400	3,960	3.60	4	4800	4,320	3.60	4	6400	5,760	3.60	4	6400	5,760	3.60	4	7400	6,660	3.60	4	7388	6,649	3.60	4	7375	6,638	3.60	4	7363	6,626	3.60	4	7350	6,615	3.60	4	7497	6,747	3.6000
54010	MEADOWVALE BLVD	MISSISSAUGA RD	FIFTH LINE WEST	1.40	4	11800	16,520	5.60	4	12000	16,800	5.60	4	11800	16,520	5.60	4	13700	19,180	5.60	4	1200	1,680	5.60	4	1224	1,714	5.60	4	1248	1,747	5.60	4	1272	1,781	5.60	4	1296	1,814	5.60	4	1322	1,851	5.6000
54003	MEADOWVALE (FIFTH LINE)	MEADOWVALE BLVD	MEADOWPINE	0.50	2	2900	1,450	1.00	2	3400	1,700	1.00	2	3900	1,950	1.00	2	3000	1,500	1.00	2	4400	2,200	1.00	2	2900	1,450	1.00	2	3290	1,645	1.00

					1999				2000				2001				2002				2003				2004				2005				2006				2007				2008			
Sec. No	Name	From	To	Length (km)	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms	Lanes	Final ADT	Travelled	kms
6007	OGDEN AVE.	SOUTH SERICE RD.	STRATHY AVE.	0.60	2	3200	1,920	1.20	2	3300	1,980	1.20	2	3400	2,040	1.20	2	3425	2,055	1.20	2	3500	2,100	1.20	2	3570	2,142	1.20	2	3640	2,184	1.20	2	3710	2,226	1.20	2	3780	2,268	1.20	2	3856	2,313	1.2000
26017	PONYTRAIL DR.	RATHBURN RD. EAST	BURNHAMTHORPE RD.	0.42	4	16900	7,098	1.68	4	14000	5,880	1.68	4	15800	6,636	1.68	4	15200	6,384	1.68	4	15200	6,384	1.68	4	18300	7,686	1.68	4	18666	7,840	1.68	4	19032	7,993	1.68	4	19398	8,147	1.68	4	19786	8,310	1.6800
39001	QUEEN ST.	C.P.R.	BARRY AVE.	0.76	2	16000	12,160	1.52	2	16400	12,464	1.52	2	16800	12,768	1.52	2	16900	12,844	1.52	2	17200	13,072	1.52	2	19500	14,820	1.52	2	19890	15,116	1.52	4	20280	15,413	1.52	2	20670	15,709	1.52	2	21083	16,023	1.5200
39002	QUEEN ST.	ELLEN ST.	BARRY AVE.	1.04	2	19000	19,760	2.08	2	10650	11,076	2.08	2	2300	2,392	2.08	2	22525	23,426	2.08	2	23700	24,648	2.08	2	19500	20,280	2.08	2	19890	20,686	2.08	2	20280	21,091	2.08	2	20670	21,497	2.08	2	21083	21,927	2.0800
39003	QUEEN ST.	CPR XING	ELLEN ST.	0.78	2	19000	14,820	1.56	2	19600	15,288	1.56	2	2300	1,794	1.56	2	22000	17,160	1.56	2	23500	18,330	1.56	2	19500	15,210	1.56	2	19595	15,284	1.56	2	19690	15,358	1.56	2	17970	14,017	1.56	2	18329	14,297	1.5600
30008	RATHBURN RD. W.	150m/W.OF CREDITVIEW RD.	MAVIS RD.	1.98	4	17900	35,442	7.92	4	15300	30,294	7.92	4	10000	19,800	7.92	4	15800	31,284	7.92	4	15800	31,284	7.92	4	17030	33,719	7.92	4	18260	36,155	7.92	4	16305	32,284	7.92	4	14350	28,413	7.92	4	14637	28,981	7.9200
29007	RATHBURN RD. W.	MAVIS RD.	CITY CENTER DR.	1.90	4	23500	44,650	7.60	4	23000	43,700	7.60	4	21300	40,470	7.60	4	19500	37,050	7.60	4	19500	37,050	7.60	4	15100	28,690	7.60	4	23180	44,042	7.60	4	22540	42,826	7.60	4	21900	41,610	7.60	4	22338	42,442	7.6000
29011	RATHBURN RD. W.	HURONTARIO ST.	250m W. THEREOF	0.25	4	23500	5,875	1.00	4	23000	5,750	1.00	4	21300	5,325	1.00	4	19500	4,875	1.00	4	19500	4,875	1.00	4	21900	5,475	1.00	4	21900	5,475	1.00	4	21900	5,475	1.00	4	21900	5,475	1.00	4	22338	5,585	1.0000
28012	RATHBURN ROAD. E.	HWY# 10	SHERWOODTOWNE BLVD.	0.24	4	14700	3,528	0.96	4	13300	3,192	0.96	4	14600	3,504	0.96	4	13600	3,264	0.96	4	13600	3,264	0.96	4	13570	3,257	0.96	4	13540	3,250	0.96	4	13510	3,242	0.96	4	13480	3,235	0.96	4	13750	3,300	0.9600
28081	RATHBURN ROAD. E.	SHIPP DR./SHERWOODTOWNE BLVD.	CENTRAL PARKWAY EAST	0.85	4	14700	12,495	3.40	4	13300	11,305	3.40	4	14600	12,410	3.40	4	13600	11,560	3.40	4	13600	11,560	3.40	4	13600	11,560	3.40	4	13560	11,526	3.40	4	13520	11,492	3.40	4	13480	11,458	3.40	4	13750	11,687	3.4000
28082	RATHBURN ROAD. E.	CENTRAL PARKWAY EAST	WILCOX RD.	0.90	4	12300	11,070	3.60	4	12200	10,980	3.60	4	13300	11,970	3.60	4	13600	12,240	3.60	4	13600	12,240	3.60	4	13600	12,240	3.60	4	13872	12,485	3.60	4	14144	12,730	3.60	4	14416	12,974	3.60	4	14704	13,234	3.6000
28002	RATHBURN ROAD. E.	WILCOX RD.	CAWTHRA RD.	0.22	4	12300	2,706	0.88	4	12200	2,684	0.88	4	13300	2,926	0.88	4	13600	2,992	0.88	4	13600	2,992	0.88	4	13600	2,992	0.88	4	13872	3,052	0.88	4	14144	3,112	0.88	4	14416	3,172	0.88	4	14704	3,235	0.8800
27006	RATHBURN ROAD. E.	CAWTHRA RD.	DIXIE RD.	2.05	4	14200	29,110	8.20	4	15100	30,955	8.20	4	16000	32,800	8.20	4	13700	28,085	8.20	4	13700	28,085	8.20	4	10800	22,140	8.20	4	12580	25,789	8.20	4	14360	29,438	8.20	4	16140	33,087	8.20	4	16463	33,749	8.2000
26006	RATHBURN ROAD. E.	DIXIE RD.	FIELDGATE DR.	0.95	4	16400	15,580	3.80	4	17200	16,340	3.80	4	17600	16,720	3.80	4	21500	20,425	3.80	4	21500	20,425	3.80	4	21470	20,397	3.80	4	20157	19,149	3.80	4	18843	17,901	3.80	4	17530	16,654	3.80	4	17881	16,987	3.8000
26018	RATHBURN ROAD. E.	FIELDGATE DR.	E. LEG RATHBURN RD.	0.57	4	16400	9,348	2.28	4	17000	9,690	2.28	4	17600	10,032	2.28	4	20225	11,528	2.28	4	21500	12,255	2.28	4	20508	11,689	2.28	4	19515	11,124	2.28	4	18523	10,558	2.28	4	17530	9,992	2.28	4	17881	10,192	2.2800
26002	RATHBURN RD. E.	PONYTRAIL DR.	ETOBICOKE CREEK	0.90	4	7900	7,110	3.60	4	7200	6,480	3.60	4	7400	6,660	3.60	4	7700	6,930	3.60	4	7600	6,840	3.60	4	7752	6,977	3.60	4	7904	7,114	3.60	4	8056	7,250	3.60	4	8208	7,387	3.60	4	8372	7,535	3.6000
59043	RIDGEWAY DR.	BURNHAMTHORPE RD. W.	DUNDAS ST. WEST	2.25	4	15100	33,975	9.00	4	13900	31,275	9.00	4	15500	34,875	9.00	4	10200	22,950	9.00	4	11700	26,325	9.00	4	16400	36,900	9.00	4	11790	26,528	9.00	4	17280	38,880	9.00	4	18690	42,053	9.00	4	19064	42,894	9.0000
58010	RIDGEWAY DR.	UNITY DR.	BURNHAMTHORPE RD.	0.78	4	4900	3,822	3.12	4	4900	3,822	3.12	4	5600	4,368	3.12	4	5230	4,079	3.12	4	5230	4,079	3.12	4	5200	4,056	3.12	4	5160	4,025	3.12	4	5125	3,998	3.12	4	5090	3,970	3.12	4	5192	4,050	3.1200
4005	ROYAL WINDSOR DR	SOUTHDOWN RD	WINSTON CHURCHILL BLVD	2.10	2	26700	56,070	4.20	2	26600	55,860	4.20	2	29000	60,900	4.20	2	27500	57,750	4.20	2	27500	57,750	4.20	2	27300	57,330	4.20	2	27100	56,910	4.20	2	27450	57,645	4.20	2	23550	49,455	4.20	4	24021	50,444	8.4000
18007	SHERIDAN PARK DR	WINSTON CHURCHILL BLVD	SPEAKMAN DR	0.15	2	3000	450	0.30	2	3050	458	0.30	2	3100	465	0.30	2	3150	473	0.30	2	3200	480	0.30	2	3264	490	0.30	2	3328	499	0.30	2	3392	509	0.30	2	3456	518	0.30	2	3525	529	0.3000
18017	SHERIDAN PARK DR	ERIN MILLS PARKWAY	WLY END	1.12	2	6900	7,728	2.24	2	7350	8,232	2.24	2	7800	8,736	2.24	2	7875	8,820	2.24	2	8200	9,184	2.24	2	8364	9,368	2.24	2	8528	9,551	2.24	2	8692	9,735	2.24	2	8856	9,919	2.24	2	9033	10,117	2.2400
7031	SOUTH SERVICE RD.	HURONTARIO ST.	200m W.OF CRESTVIEW AVE.	0.50	2	5800	2,900	1.00	2	6600	3,300	1.00	2	6300	3,150	1.00	2	6000	3,000	1.00	2	6000	3,000	1.00	2	5900	2,950	1.00	2	6018	3,009	1.00	2	6136	3,068	1.00	2	6254	3,127	1.00	2	6379	3,190	1.0000
7032	SOUTH SERVICE RD.	200m W.OF CRESTVIEW AVE.	KENMUIR AVE.	0.92	2	5800	5,336	1.84	2	6600	6,072	1.84	2	6300	5,796	1.84	2	6000	5,520	1.84	2	6000	5,520	1.84	2	5900	5,428	1.84	2	7050	6,486	1.84	2	7191	6,616	1.84	2	7332	6,745	1.84	2	7479	6,880	1.8400
7026	SOUTH SERVICE RD.	KENMUIR AVE.	CAWTHRA RD.	0.94	2	5200	4,888	1.88	2	6900	6,486	1.88	2	6900	6,486	1.88	2	5733	5,389	1.88	2	6000	5,640	1.88	2	5900	5,546	1.88	2	6018	5,657	1.88	2	6136	5,768	1.88	2	6254	5,879	1.88	2	6379	5,996	1.8800
6017	SOUTH SERVICE RD.	OGDEN AVE.	CAWTHRA RD.	1.12	2	12500	14,000	2.24	2	11800	13,216	2.24	2	12000	13,440	2.24	2	12367	13,851	2.24	2	12300	13,776	2.24	2	12546	14,052	2.24	2	12792	14,327	2.24	2	13038	14,603	2.24	2	13284	14,878	2.24	2	13550	15,176	2.2400
6016	SOUTH SERVICE RD.	300 m W. OF DIXIE RD.	OGDEN AVE.	0.70	2	15000	10,500	1.40	2	12700	8,890	1.40	2	13000	9,100	1.40	2	13800	9,660	1.40	2	13200	9,240	1.40	2	13464	9,425	1.40	2	13728	9,610	1.40	2	13992	9,794	1.40	2	14256	9,979	1.40	2	14541	10,179	1.4000
6015	SOUTH SERVICE RD.	DIXIE RD.	WLY 300M	0.30	2	12700	3,810	0.60	2	12950	3,885	0.60	2	13200	3,960	0.60	2	13300	3,990	0.60	2	13500	4,050	0.60	2	13770	4,131	0.60	2	14040	4,212	0.60	2	14310	4,293	0.60	2	14580	4,374	0.60	2	14872	4,461	0.6000
	SOUTH SERVICE RD.	DIXIE RD.	EASTERLY END	0.70	2	3000	2,100	1.40	2	3000	2,100	1.40	2	3000	2,100	1.40	2	3000	2,100	1.40	2	3000	2,100	1.40	2	3060	2,142	1.40	2	3120	2,184	1.40	2	3180	2,226	1.40	2	3240	2,268	1.40	2	3305	2,313	1.4000
11008	SOUTH SHERDIAN WAY	WINSTON CHURCHILL BLVD.	240m/W.OF BENEDET DR.	0.90	2	3800	3,420	1.80	2	3400	3,060	1.80	2	3400	3,060	1.80	2	2900	2,610	1.80	2	3400	3,060	1.80	2	3400	3,060	1.80	2	2940	2,646	1.80	2	2999	2,699	1.80	2	3058	2,752	1.80	2	3119	2,807	1.8000
11010	SOUTH SHERIDAN WAY	240m/W.OF BENEDET DR.	PHEDORA DR.	1.36	2	3800	5,168	2.72	2	3600	4,896	2.72	2	3400	4,624	2.72	2	3125	4,250	2.72	2	2900	3,944	2.72	2	8600	11,696	2.72	2	8772	11,930	2.72	2	8944	12,164	2.72	2	9116	12,398	2.72	2	9298	12,646	2.7200
10031	SOUTH SHERIDAN WAY	SOUTHDOWN RD.	50mW. OF CLARKSON RD.	0.85	2	7800	6,630	1.70	2	5300	4,505	1.70	2	5400	4,590	1.70	2	6267	5,327	1.70	2	5500	4,675	1.70	2	5610	4,769	1.70	2	5720	4,862	1.70	2	5830	4,956	1.70	2	5940	5,049	1.70	2	6059	5,150	1.7000
10032	SOUTH SHERIDAN WAY	50mW.CLARKSON RD.	920mE.THEREOF	0.92	2	7800	7,176	1.84	2	8250	7,590	1.84	2	8700	8,004	1.84	2	8625	7,935	1.84	2	8900	8,188	1.84	2	9078	8,352	1.84	2	9256	8,516	1.84	2	9434	8,679	1.84	2	9612	8,843	1.84	2	9804	9,020	1.8400
9019	SOUTH SHERIDAN WAY	INDIAN RD.	200mW.MISSISSAUGA RD.	2.50	2	8000	20,000	5.00	2	1020	2,550	5.00	2	8700	21,750	5.00	2	8600	21,500	5.00	2	8900	22,250	5.00	2	9078	22,695	5.00	2	9256	23,140	5.00	2	9434	23,585	5.00	2	9612	24,030	5.00	2	9804	24,511	5.0000
8028	SOUTH SHERIDAN WAY	MISSISSAUGA RD.	200m WEST OF MISSISSAUGA RD.	0.20	2	8000	1,600	0.40	2	1020	204	0.40	2	10200	2,040	0.40	2	9600	1,920	0.40	2	10400	2,080	0.40	2	10608	2,122	0.40	2	10816	2,163	0.40	2	11024	2,205	0.40	2	11232	2,246	0.40	2	11457	2,291	0.4000
4001	SOUTHDOWN RD.	ROYAL WINDSOR DR.	LAKESHORE RD.W.	2.06	2	15900	32,754	4.12	2	17700	36,462	4.12	2	19400	39,964	4.12	2	18500	38,110	4.12	2	19800	40,788	4.12	2	19400	39,964	4.12	2	19788	40,763	4.12	2	20176	41,563	4.12	2	20564	42,362	4.12	2	20975	43,209	4.1200
11001	SOUTHDOWN RD.	Q.E.W.	LAKESHORE RD.	1.84	4	29900	55,016	7.36	4	36800	67,712	7.36	4	36800	67,712	7.36	4	45400	83,536	7.36	4	45400	83,536	7.36	4	40300	74,152	7.36	4	44190	81,310	7.36	4	43800	80,592	7.36	4	43410	79,874	7.36	4	44278	81,472	7.3600
57002	TENTH LINE	EGLINTON AVE.	DUNCAIRN DRIVE	1.24	2	6600	8,184	2.48	2	6300	7,812	2.48	2	7800	9,672	2.48	2	5800	7,192	2.48	2	5800	7,192	2.48	2	9100	11,284	2.48	2	8430	10,453	2.48	2	9520	11,805	2.48	2	10370	12,859	2.48	2	10577	13,116	2.4800
	TENTH LINE	SOUTH OF THOMAS STREET	DUNCAIRN DRIVE	0.70	2	6600	4,620	1.40	2	6300	4,410	1.40	2	7800	5,460	1.40	2	5800	4,060	1.40	2	5800	4,060	1.40	2	9100	6,370	1.40	2	8430	5,901	1.40	2	9520	6,664	1.40	2	10370	7,259	1.40	2	10577	7,404	1.4000
	TENTH LINE	BRITANNIA RD.	SOUTH OF THOMAS STREET	1.19	2	6600	7,854	2.38	2	6300	7,497	2.38	2	7800	9,282	2.38	2	5800	6,902	2.38	2	5800	6,902	2.38	2	9100	10,829	2.38	2	8430	10,032	2.38	2	9520	11,329	2.38	2	10370	12,340	2.38	2	10577	12,587	2.3800
56013	TENTH LINE	200m/S. OF BATTLEFORD RD.	BRITANNIA RD.	1.28	2	7300	9,344	2.56	2	7300	9,344	2.56	2	6700	8,576	2.56	2	9300	11,904	2.56	2	9300	11,904	2.56	2	10300	13,184	2.56	2	10506	13,448	2.56	2	10712	13,711	2.56	2	10918	13,975	2.56	2	11136	14,255	2.5600
56003	TENTH LINE	DERRY RD.	200mS BATTLEFORD RD.	1.78	2	5000	8,900	3.56	2	7700	13,706	3.56	2	8300	14,774	3.56	2	9500	16,910	3.56	2	9500	16,910	3.56	2	9300	16,554	3.56	2	9527	16,957	3.56	2	9753	17,361	3.56	2	9980	17,764	3.56	2	10180	18,120	3.5600
55002	TENTH LINE	DERRY	AVALON DRIVE	0.40	2	6000	2,400	0.80	2	6500	2,600	0.80	2	7000	2,800	0.80	2	7500	3,000	0.80	2	8000	3,200	0.80	2	8160	3,264	0.80	2	8320	3,328	0.80	2	8480	3,392	0.80	2	8640	3,456	0.80	2	8813	3,525	0.8000
	TENTH LINE	AVALON DRIVE	RAILWAY TRACKS	0.90	2	3000	2,700	1.80	2	3060	2,754	1.80	2	3120	2,808	1.80	2	3180	2,862	1.80	2	3240	2,916	1.80	2	3305	2,974	1.80	2	3370	3,033	1.80	2	3434	3,091	1.80	2	3499	3,149	1.80	2	3569	3,212	1.8000
55036	TENTH LINE	RAILWAY TRACKS	ARGENTIA ROAD	0.30	2	3000	900	0.60	2	3060	918	0.60	2	3120	936	0.60	2	3180	954	0.60	2	3240	972	0.60	2	3305	991	0.60	2	3370	1,011	0.60	2	3434	1,030	0.60	2	3499	1,050	0.60	2	3569	1,071	0.6000
	TENTH LINE	ARGENTIA ROAD	N'LY END	0.82	2	3000	2,460	1.64	2	3060	2,509	1.64	2	3120	2,558	1.64	2	3180	2,608	1.64	2	3240	2,657	1.64	2	3305	2,710	1.64	2	3370	2,763	1.64	2	3434	2,816	1.64	2	3499	2,869	1.64	2	3569	2,927	1.6400
38001	TERRY FOX WAY	EGLINTON AVE.	DREAM CREST.	0.60	4	8600	5,160	2.40	4	6800	4,080	2.40	4	7800	4,680	2.40	4	11500	6,900	2.40	4	11500	6,900	2.40	4	10700	6,420	2.40	4	10590	6,354	2.40	4	10480	6,288	2.40	4	10370	6,222	2.40	4	10998	6,659	2.4000
38143	TERRY FOX WAY	DREAM CREST	BRITANNIA RD.	2.46	2	10900	26,814	4.92	2	6500	15,990	4.92	2	11700	28,782	4.92	2	13700	33,702	4.92	2	13700	33,702	4.92	2	17200	42,312	4.92	2	15520	38,179	4.92	2	13840	34,046	4.92	2	15520	38,179	4.92	2	15880	38,943	4.9200
59045	THE COLLEGEWAY	WINSTON CHURCHILL BLVD.	WLY END/RIDGEWAY DRIVE	1.33	4	3700	4,921	5.32	4	3700	4,921	5.32	4	3800	5,054	5.32	4	3833	5,098	5.32	4	3900	5,187	5.32	4	3978	5,291	5.32	4	4056	5,394	5.32	4	4134	5,498	5.32	4	4212	5,602	5.32	4	4296	5,714	5.3200
25004	THE COLLEGEWAY	WINSTON CHURCHILL BLVD.	ERIN MILLS PARKWAY	1.84	4	12600	23,184	7.36	4	10300	18,952	7.36	4	12900	23,736	7.36	4	13300	24,472	7.36	4	13300	24,472	7.36	4	14500	26,680	7.36	4	14150	26,036	7.36	4	13800	25,392	7.36	4	14030	25,815	7.36	4	14311	26,332	7.3600
24021	THE COLLEGEWAY	ERIN MILLS PARKWAY	MISSISSAUGA RD	1.64	4	8700	14,268	6.56	4	7900	12,956	6.56	4	7900	12,956	6.56	4	8367	13,721	6.56	4	8200	13,448	6.56	4	8364	13,717	6.56	4	8528	13,986	6.56	4	8692	14,255	6.56	4	8856	14,524	6.56	4	9033	14,814	6.5600
	THOMAS ST.	TENTH LINE	TENTH LINE	1.41	0	0	0	0.00	0	0	0	0.00	0	0	0	0.00	0	0	0	0.00	4	6700	9,447	5.64	4	6834	9,636	5.64	4	6968	9,825	5.64	4	7102	10,014	5.64	4	7236	10,203	5.64	4	7381	10,407	5.6400
	THOMAS ST.	TENTH LINE	WINSTON CHURCHHILL BLVD.	0.73	0	0	0	0.00	0	0	0	0.00	0	0	0	0.00	0	0	0	0.00	0	0	0	0.00	0	0	0	0.00	0	0	0	0.00	0	0	0	0.00	4	7236	5,246	2.90	4	7381	5,351	2.9000
39010	THOMAS ST.	ERIN MILLS PKWY.	WINSTON CHURCHHILL BLVD.	1.30	4	7900	10,270	5.20	4	8500	11,050	5.20	4	11300	14,690	5.20	4	8700	11,310	5.20	4	8700	11,310	5.20	4	8700	11,310	5.20	4	8842	11,495	5.20	4	8985	11,680	5.20	4	9127	11,865	5.20	4	9310	12,102	5.2000
39035	THOMAS ST.	ERIN MILLS PKWY.	WAREHAM DR.	0.39	4	12500	4,875	1.56	4	11900	4,641	1.56	4	11300	4,407	1.56	4	10775	4,202	1.56	4	10200	3,978	1.56	4	13600	5,304	1.56	4	13827	5,392	1.56	4	14053	5,481	1.56	4	14280	5,569	1.56	4	14566	5,681	1.5600
39009	THOMAS ST.	R.R. XING	WAREHAM DR.	0.86	4	12500	10,750	3.44	4	11500	9,890	3.44	4	10500	9,030	3.44	4	10200	8,772	3.44	4	10200	8,772	3.44	4	13600	11,696	3.44	4	13827	11,891	3.44	4	14053	12,086	3.44	4	14280	12,281	3.44	4	14566	12,526	3.4400
39008	THOMAS ST.	IQUEEN ST.	C.P.R.	0.20	4	12500	2,500	0.80	4	11500	2,300	0.80	4	10500	2,100	0.80	4	10775	2,155	0.80	4	10200	2,040	0.80	4	13600	2,720	0.80	4	13827	2,765	0.80	4	14053	2,811	0.80	4	14280	2,856	0.80	4	14566	2,913	0.8000
20003	TOMKEN RD.	BLOOR ST.	DUNDAS ST.	1.10	4	11400	12,540	4.40	4	11800	12,980	4.40	4	14600	16,060	4.40	4	11700	12,870	4.40	4	11700	12,870	4.40	4	13300	14,630	4.40	4	13067	14,373	4.40	4	12833	14,117	4.40	4	12600	13,860	4.40	4	12852	14,137	4.4000
20009	TOMKEN RD.	BURNHAMTHORPE RD.	BLOOR ST.	1.00	4	13500	13,500	4.00	4	15000	15,000	4.00	4	13700	13,700	4.00	4	12300	12,300	4.00	4	11700	11,700	4.00	4	13300	13,300	4.00	4	13067	13,067	4.00	4	12833	12,833	4.00	4	12600	12,600	4.00	4	12852	12,852	4.0000
27003	TOMKEN RD.	EGLINTON AVE.	BURNHAMTHORPE RD.	2.06	4	21500	44,290	8.24	4	18500	38,110	8.24	4	20000	41,200	8.24	4	23900	49,234	8.24	4	23900	49,234	8.24	4	21200	43,672	8.24	4	21710	44,723	8.24	4	22220	45,773	8.24	4	22730	46,824	8.24	4	23185	47,760	8.2400
36001	TOMKEN RD.	MATHESON BLVD.	EGLINTON AVE.	1.10	4	25900	28,490	4.40	4	26800	29,480	4.40	4	28400	31,240	4.40	4	26800	29,480	4.40	4	26800	29,480	4.40	4	25500	28,050	4.40	4	26010	28,611	4.40	4	26520	29,172	4.40	4	27030	29,733	4.40	4	27571	30,328	4.4000
36010	TOMKEN RD.	MATHESON BLVD.	150 M N. OF KAMATO RD.	0.68	4	23500	15,980	2.72	4	24800	16,864	2.72	4	26

Table B-2

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

2031 LEVEL OF SERVICE ANALYSIS

						Pk Hr to 24-Hr Factor			0.0750
Link #	Sec. No	Name	From	To	Length (km)	Number of Lanes	2031 ADT	Vehicle KMs	Lane KMs
1	56011	AQUITAINE AVE.	TENTH LINE WEST	EDENWOOD DR.	0.40	4	13107	5243	1.6000
2	56008	AQUITAINE AVE.	EDENWOOD DR.	WINSTON CHURCHILL BLVD.	0.26	4	11587	3013	1.0400
3	46015	AQUITAINE AVE.	WINSTON CHURCHILL BLVD.	GLEN ERIN DR.	0.56	4	21293	11924	2.2400
5	46014	AQUITAINE AVE.	GLEN ERIN DR.	MILLCREEK DR.	1.10	4	18427	20269	4.4000
9		ARGENTIA RD	NINTH LINE	TENTH LINE	1.40	4	5880	8232	5.6000
10		ARGENTIA RD	TENTH LINE	WINSTON CHURCHILL	0.63	4	14360	9047	2.5200
11		ARGENTIA RD	FIFTH LINE	WINSTON CHURCHILL BLVD	1.73	4	14960	25881	6.9200
13	54008	ARGENTIA RD	FIFTH LINE	DERRY ROAD	0.68	4	15747	10708	2.7200
14	46031	ARGENTIA RD	DERRY ROAD	CENTURY AVE	0.32	4	21293	6814	1.2800
15	46007	ARGENTIA RD	CENTURY AVE	TURNER VALLEY RD	1.08	4	16880	18230	4.3200
16	46088	ARGENTIA RD	TURNER VALLEY RD	CENTURY AVE	0.14	4	9053	1267	0.5600
17	46033	ARGENTIA RD	CENTURY AVE	MISSISSAAUGA ROAD	0.20	4	9053	1811	0.8000
18	45012	ARGENTIA RD	KITIMAT RD	MISSISSAAUGA ROAD	0.40	4	25867	10347	1.6000
19	45024	ARGENTIA RD	C.P.R.	KITIMAT RD	0.31	4	25867	8019	1.2400
20	45018	ARGENTIA RD	CREDITVIEW RD	C.P.R.	0.60	4	14720	8832	2.4000
21	7018	ATWATER AVE.	MINEOLA RD.	CAWTHRA RD.	1.00	2	11653	11653	2.0000
23	6010	ATWATER AVE.	CAWTHRA RD.	OGDEN AVE.	0.98	2	12800	12544	1.9600
25	37084	AVEBURY	MATHESON BLVD	BRITANNIA RD	1.05	4	20760	21798	4.2000
29	56006	BATTLEFORD RD.	TENTH LINE WEST	WINSTON CHURCHILL BLVD.	0.64	4	15187	9719	2.5600
32	46025	BATTLEFORD RD.	WINSTON CHURCHILL BLVD.	GLEN ERIN DR.	0.52	4	12760	6635	2.0800
34	46024	BATTLEFORD RD.	GLEN ERIN DR.	ERIN MILLS PKWY.	0.95	4	19667	18683	3.8000
36		BELGRAVE ROAD	CANTAY ROAD	NORTHERLY 600M	0.60	4	5227	3136	2.4000
37		BELGRAVE ROAD	NORTHERLY 600M	MAVIS ROAD	0.23	4	2693	619	0.9200
38	21013	BLOOR ST.	CENTRAL PKWY.	CAWTHRA RD.	1.05	4	27000	28350	4.2000
40	20061	BLOOR ST.	CAWTHRA RD.	DIXIE RD.	2.08	4	18907	39326	8.3200
47	19008	BLOOR ST.	DIXIE RD.	ETOBICOKE CREEK	1.64	4	24640	40410	6.5600
51	50001	BRAMALEA RD.	50mN.OF DREW RD.	DERRY RD.	0.79	6	15853	12524	4.7400
52	50008	BRAMALEA RD.	50mN OF DREW RD.	134mS ETOBICOKE CREEK	0.22	6	19453	4202	1.2960
53	50013	BRAMALEA RD.	134mS ETOBICOKE CREEK	N.CITY LIMITS	0.54	6	34827	18772	3.2340
57	38009	BRISTOL RD. W.	ALBERT ST.	CREDITVIEW RD.	0.98	2	21427	20998	1.9600
59	38123	BRISTOL RD. W.	CREDITVIEW RD.	FALLINGBROOK DR.	0.46	4	22680	10433	1.8400
61		BRISTOL RD. W.	FALLINGBROOK DR.	TERRY FOX WAY	0.94	4	17907	16832	3.7600
64		BRISTOL RD. W.	TERRY FOX WAY	MAVIS ROAD	0.61	4	24373	14868	2.4400
66		BRISTOL RD. W.	LONGHOUSE CRES.	MAVIS RD.	0.25	4	9507	2377	1.0000
67	37125	BRISTOL RD. W.	295 km WEST OF McLAUGHLIN	LONGHOUSE CRES.	0.30	4	9053	2716	1.2000
68	37082	BRISTOL RD. W.	MCLAUGHLIN RD.	W'LY END	0.30	4	14760	4354	1.1800
69	37006	BRISTOL RD. W.	McLAUGHLIN DR.	SWIFTCURRENT TRAIL	0.83	4	17907	14863	3.3200
71	37135	BRISTOL RD. W.	SWIFTCURRENT TRAIL	HURONTARIO ST.	0.62	4	15467	9589	2.4800
72	36015	BRISTOL ROAD E.	HURONTARIO ST.	TRAILWOOD DR.	0.45	4	7613	3418	1.7960
74	36051	BRISTOL ROAD E.	TRAILWOOD DR	KENNEDY RD	1.05	4	11253	11816	4.2000
77	36012	BRITANNIA RD. E.	HURONTARIO ST.	KENNEDY RD.	1.42	4	16280	23118	5.6800
80		BRITANNIA RD. E.	BURNSIDE COURT	BRITANNIA RD. E	0.82	2	8347	6844	1.6400
81	35009	BRITANNIA RD. E.	TOMKEN RD.	DIXIE RD.	1.35	4	14200	19170	5.4000
84	35008	BRITANNIA RD. E.	DIXIE RD.	1300mE. THEREOF	1.30	4	15427	20055	5.2000
87	59004	BURNHAMTHORPE RD.	NINTH LINE	300mE. THEREOF	0.30	4	32800	9840	1.2000
88	59003	BURNHAMTHORPE RD.	300mE OF NINTH LINE	LOYALIST	1.22	4	29427	35901	4.8800
90	59003	BURNHAMTHORPE RD.	LOYALIST	WINSTON CHURCHLL BLVD	0.47	6	26667	12533	2.8200
91	25014	BURNHAMTHORPE RD.	WINSTON CHURCHILL BLVD.	GLEN ERIN DR.	1.04	6	32267	33557	6.2400
94	25024	BURNHAMTHORPE RD.	GLEN ERIN DR.	100m E OF SOUTH COMMON CT	0.42	6	47987	20154	2.5200
95	25024	BURNHAMTHORPE RD.	100m E OF SOUTH COMMON CT	ERIN MILLS PKWY	0.30	6	42987	12896	1.8000
96	24019	BURNHAMTHORPE RD.	ERIN MILLS PKWY.	MISSISSAUGA RD.	1.05	6	51920	54516	6.3000
99	24031	BURNHAMTHORPE RD.	MISSISSAUGA RD.	C.P.R. XING	1.75	6	47880	83790	10.5000
101	23010	BURNHAMTHORPE RD.	ERINDALE STATION RD.	C.P.R.XING	0.62	6	48813	30264	3.7200
103	23018	BURNHAMTHORPE RD.	ERINDALE STATION RD.	MAVIS RD.	1.26	6	50720	63907	7.5600
106	22013	BURNHAMTHORPE RD.	CONFEDERATION PKWY.	MAVIS RD.	0.84	6	45267	38024	5.0400
108	22013	BURNHAMTHORPE RD.	1140m E.-MAVIS RD.	CONFEDERATION PKWY.	0.30	6	40907	12272	1.8000
110	22012	BURNHAMTHORPE RD.	HURONTARIO ST.	860m W'LY	0.86	6	46707	40168	5.1600
114	21018	BURNHAMTHORPE RD.	HURONTARIO ST.	CAWTHRA RD.	2.08	6	55373	115177	12.4800
119	20013	BURNHAMTHORPE RD.	CAWTHRA RD.	TOMKEN RD.	0.90	6	49400	44460	5.4000
122	20023	BURNHAMTHORPE RD.	TOMKEN RD.	DIXIE RD.	1.30	6	46400	60320	7.8000
127	19014	BURNHAMTHORPE RD.	DIXIE RD.	ETOBICOKE CREEK	2.20	6	61480	135256	13.2000
132	14022	CAMILLA RD	DUNDAS ST.	KING ST.	0.26	4	11867	3085	1.0400
133	44015	CANTAY RD	McLAUGHLIN RD	BRITANNIA RD	1.25	4	18960	23700	5.0000
137		CANTAY RD	McLAUGHLIN RD	MAVIS ROAD	0.75	4	6773	5080	3.0000
139	23017	CENTRAL PARKWAY W.	ERINDALE STATION RD.	BURNHAMTHORPE RD.	0.71	4	20720	14711	2.8400
140	23013	CENTRAL PARKWAY W.	ERINDALE STATION RD.	WOLFEDALE RD.	0.81	4	17893	14494	3.2400
141	23019	CENTRAL PARKWAY W.	MAVIS RD.	WOLFEDALE RD.	0.40	4	26453	10581	1.6000
142		CENTRAL PARKWAY W.	MAVIS	400m E'LY	0.40	4	10653	4261	1.6000
143	22038	CENTRAL PARKWAY W.	W'LY END	60 m W. OF COPERNICUS DR.	0.40	4	8453	3381	1.6000
144	22030	CENTRAL PARKWAY W.	60mW COPERNICUS DR.	PALGRAVE RD.	0.60	4	17093	10256	2.4000
146	22018	CENTRAL PARKWAY W.	PALGRAVE RD.	ACHILL CR.	0.30	4	17560	5268	1.2000
147	22008	CENTRAL PARKWAY W.	ACHILL CR.	HURONTARIO ST.	0.40	4	19933	7973	1.6000
148	21016	CENTRAL PKWY. E.	HURONTARIO ST.	MISSISSAUGA VALLEY BLVD.	0.32	4	19867	6357	1.2800
149	21023	CENTRAL PKWY. E.	MISSISSAUGA VALLEY BLVD.	BURNHAMTHORPE RD.	1.42	4	23347	33152	5.6800
153	28014	CENTRAL PKWY. E.	RATHBURN RD.	BURNHAMTHORPE RD.	0.84	4	13387	11245	3.3600
155	28011	CENTRAL PKWY. E.	N.OF HEPC ROW	RATHBURN RD.	0.46	4	16933	7789	1.8400
156	28020	CENTRAL PKWY. E.	EGLINTON AVE.	HYDRO R.O.W.	0.91	4	18760	17072	3.6400
158	29077	CENTREVIEW DR	MAVIS RD.	DUKE OF YORK	1.22	5	26507	32338	6.1000
161		CENTREVIEW DR	DUKE OF YORK	CITY CENTRE DR.	0.80	5	24373	19499	4.0000
165		CENTREVIEW DRIVE LINK	CENTREVIEW DRIVE	HWY. 403	0.50	1	11453	5727	0.5000
166	10007	CLARKSON ROAD	LAKESHORE ROAD	380m N THEREOF	0.38	2	6987	2655	0.7600
167	10008	CLARKSON ROAD	60m S OF MAZO CR	CNR	0.90	2	6987	6288	1.8000
168	10021	CLARKSON ROAD	S OF WEDMORE WAY	60m S OF MAZO CR	0.39	2	11413	4451	0.7800
170	10022	CLARKSON ROAD	SOUTH SHERIDAN WAY	S OF WEDMORE WAY	0.40	2	11027	4411	0.8000
171	15025	CONFEDERATION PKWY.	KING ST.	QUEENSWAY	0.70	2	13720	9604	1.4000
174	15010	CONFEDERATION PKWY.	DUNDAS ST.	KING ST. WEST	0.27	2	14933	4032	0.5400

Table B-2

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

2031 LEVEL OF SERVICE ANALYSIS

						Pk Hr to 24-Hr Factor			0.0750
Link #	Sec. No	Name	From	To	Length (km)	Number of Lanes	2031 ADT	Vehicle KMs	Lane KMs
175	22004	CONFEDERATION PKWY.	BURNHAMTHORPE RD.W.	DUNDAS ST. WEST	2.28	4	30187	68675	9.1000
181		CONFEDERATION PKWY.	BURNHAMTHORPE RD.W.	EGLINTON AVE.	2.00	4	28440	56880	8.0000
189		CONFEDERATION PKWY. RAMP	CONFEDERATION PKWY.	NORTH SERVICE ROAD	0.25	1	267	67	0.2500
192		COURTNEYPARK DR.	MCLAUGLIN RD.	MAVIS RD.	0.70	4	12520	8764	2.8000
193		COURTNEYPARK DR.	MARITZ DRIVE	MCLAUGLIN RD.	1.10	4	34053	37459	4.4000
195		COURTNEYPARK DR.	MARITZ DRIVE	HURONTARIO ST.	0.30	6	27400	8220	1.8000
196	43002	COURTNEYPARK DR.	KENNEDY RD.	HWY #10	1.43	6	34867	49859	8.5800
198	43043	COURTNEYPARK DR.	TOMKEN RD.	KENNEDY RD.	1.45	6	39987	57981	8.7000
201	42005	COURTNEYPARK DR.	TOMKEN RD.	DIXIE RD.	1.35	6	28440	38394	8.1000
204	42003	COURTNEYPARK DR.	DIXIE RD.	NETHERHART RD.	1.24	4	12320	15277	4.9600
205	30005	CREDITVIEW RD.	BURNHAMTHORPE RD.W.	HYDRO R.O.W.	1.04	4	33893	35249	4.1600
208	30012	CREDITVIEW RD.	EGLINTON AVE.	HYDRO R.O.W.	1.00	4	25853	25853	4.0000
210	38020	CREDITVIEW RD.	EGLINTON AVE.	BRISTOL RD.W.	1.38	4	26520	36598	5.5200
213	38002	CREDITVIEW RD.	WILLOW WAY	BRISTOL RD.W.	0.60	4	21187	12712	2.4000
214	38139	CREDITVIEW RD.	BRITANNIA RD.	WILLOW WAY	1.09	4	28613	31189	4.3600
215	45006	CREDITVIEW RD.	BRITANNIA RD.	BANCROFT ROAD	0.35	4	24853	8699	1.4000
216	45113	CREDITVIEW RD.	BANCROFT ROAD	ARGENTIA ROAD	1.43	4	31800	45474	5.7200
219	45023	CREDITVIEW RD.	ARGENTIA ROAD	OLD DERRY ROAD	0.77	4	24240	18665	3.0800
220	45007	CREDITVIEW RD.	OLD DERRY ROAD	DERRY ROAD	0.85	4	21453	18235	3.4000
222		CREEKBANK ROAD	EGLINTON AVE.	MATHESON BLVD.	1.00	4	8573	8573	4.0000
226		DERRYCREST	DERRY RD.	HURONTARIO ST.	0.50	4	587	293	2.0000
228		DREW RD.	TOMKEN RD.	DIXIE RD.	1.50	4	960	1440	6.0000
229	50004	DREW RD.	690M W. OF BRAMALEA RD.	DIXIE RD.	0.69	4	16960	11702	2.7600
230	50002	DREW RD.	BRAMALEA RD.	690m W. THEREOF	0.70	4	14480	10136	2.8000
232	49003	DREW RD.	BRAMALEA RD.	250mE THEREOF	0.25	4	13520	3380	1.0000
233	49012	DREW RD.	250mE BRAMALEA RD.	150mW KIMBREL ST.	0.44	4	13520	5949	1.7600
234	49011	DREW RD.	TORBRAM RD.	670mW. THEREOF	0.67	4	13520	9058	2.6800
235	49005	DREW RD.	TORBRAM RD.	660m EASTERLY	0.66	4	13173	8694	2.6400
236		DREW RD.	660m E- TORBRAM RD.	AIRPORT RD	0.92	4	22760	20939	3.6800
237		DUKE OF YORK	WEBB DR.	BURNAMTHORPE RD.	0.17	4	8987	1528	0.6800
238	29034	DUKE OF YORK	BURNHAMTHORPE	RATHBURN	0.76	4	15413	11714	3.0400
245		DUKE OF YORK	NORTH SERVICE ROAD	RATHBURN	0.73	4	2613	1908	2.9200
246		DUKE OF YORK RAMP	DUKE OF YORK	NORTH SERVICE ROAD	0.25	1	0	0	0.2500
249	59048	DUNDAS STREET W.	RIDGEWAY DR.	HYDE PARK GATE	0.34	6	56773	19473	2.0580
251	59047	DUNDAS STREET W.	WINSTON CHURCHILL BLVD.	RIDGEWAY DR.	0.69	6	53693	37011	4.1358
253	18014	DUNDAS STREET W.	WINSTON CHURCHILL BLVD.	WOODCHESTER DR.	0.57	6	37053	21120	3.4200
254	18018	DUNDAS STREET W.	WOODCHESTER DR	GLEN ERIN DR.	0.53	6	38560	20437	3.1800
255	18076	DUNDAS STREET W.	GLEN ERIN DR.	ERIN MILLS PKWY	0.85	6	48480	41208	5.1000
258	17021	DUNDAS STREET W.	ERIN MILLS PKWY.	MISSISSAUGA RD.	0.86	6	54413	46795	5.1600
260	17022	DUNDAS STREET W.	MISSISSAUGA RD.	THE CREDIT WOODLANDS	1.36	6	59973	81564	8.1600
262	16017	DUNDAS STREET W.	WILTSHIRE LN.	THE CREDIT WOODLANDS	0.18	6	57000	10260	1.0800
263	16017	DUNDAS STREET W.	WILTSHIRE LN.	MAVIS RD.	1.96	6	61560	120658	11.7600
267	15021	DUNDAS STREET W.	CLAYHILL ROAD	MASON HEIGHTS	0.46	6	41733	19197	2.7600
268	15021	DUNDAS STREET W.	MAVIS RD.	CLAYHILL ROAD	0.64	6	39173	25071	3.8400
270	15087	DUNDAS STREET W.	MASON HEIGHTS	HURONTARIO ST.	0.95	6	44280	42066	5.7000
272	14026	DUNDAS ST. E.	HURONTARIO ST.	BURSLEM RD.	1.18	6	40520	47814	7.0800
276	14090	DUNDAS ST. E.	AT C.P.R.	BURSLEM RD.	0.51	6	42253	21549	3.0600
277	14091	DUNDAS ST. E.	CAWTHRA RD.	AT C.P.R.	0.40	6	41773	16709	2.4000
278	13020	DUNDAS ST. E.	CAWTHRA RD.	DIXIE RD.	2.10	6	46840	98364	12.6000
283	12007	DUNDAS ST. E.	DIXIE RD.	ETOBICOKE CREEK	2.58	6	60253	155454	15.4800
291	27073	EASTGATE PARKWAY	CAWTHRA RD.	TOMKEN RD.	0.80	4	35560	28448	3.2000
292	27074	EASTGATE PARKWAY	TOMKEN RD.	DIXIE RD.	1.22	4	28787	35120	4.8800
294	26061	EASTGATE PARKWAY	DIXIE RD.	FIELDGATE DR.	0.98	4	21400	20972	3.9200
295	26007	EASTGATE PARKWAY	EGLINTON AVE.	FIELDGATE DR.	0.64	4	29653	18978	2.5600
297		EASTGATE PARKWAY	MATHESON BLVD.	HWY 401	0.50	4	14027	7013	2.0000
298		EASTGATE PARKWAY	HWY. 401	BRITANNIA RD.	1.56	4	18200	28392	6.2400
300		EASTGATE PARKWAY	BRITANNIA RD.	COURTNEYPARK DR.	1.24	4	19080	23659	4.9600
305	43025	EDWARDS BLVD.	SOUTH END	AMBASSADOR DR.	0.95	4	15560	14782	3.8000
307	43026	EDWARDS BLVD.	AMBASSADOR DR.	0.46km NORTH	0.46	4	30200	13892	1.8400
309	43027	EDWARDS BLVD.	46km N of AMBASSADOR DR.	DERRY RD.	0.64	4	13560	8678	2.5600
310	51004	EDWARDS BLVD.	DERRY RD.	NORTH END	0.68	4	14387	9783	2.7200
312		EDWARDS BLVD.	TOPFLIGHT	HWY 407	0.50	4	11920	5960	2.0000
314	58003	EGLINTON AVENUE W.	WINSTON CHURCHILL BLVD.	NINTH LINE	2.02	4	30680	61974	8.0800
319	32051	EGLINTON AVENUE W.	GLEN ERIN DR.	WINSTON CHURCHILL BLVD.	0.68	6	41120	27962	4.0800
321	32050	EGLINTON AVENUE W.	ERIN MILLS PKWY.	GLEN ERIN DR.	0.68	6	43093	29303	4.0800
323	31023	EGLINTON AVENUE W.	CREDIT VALLEY RD.	ERIN MILLS PKWY.	0.48	6	32907	15795	2.8800
324	31007	EGLINTON AVENUE W.	MISSISSAUGA RD.	CREDIT VALLEY RD.	0.90	6	48440	43596	5.4000
326	31081	EGLINTON AVENUE W.	HEWICK'S LANE	MISSISSAUGA RD.	0.56	6	53973	30225	3.3600
327	31082	EGLINTON AVENUE W.	C.P.R. CROSSING	HEWICK'S LANE	0.39	6	53973	21050	2.3400
328	30080	EGLINTON AVENUE W.	CREDITVIEW RD.	C.P.R. CROSSING	0.41	6	53973	22129	2.4600
329	30014	EGLINTON AVENUE W.	MAVIS RD.	CREDITVIEW RD.	2.08	6	50507	105054	12.4800
333	29004	EGLINTON AVENUE W.	HURONTARIO ST.	MAVIS RD.	2.14	6	39960	85514	12.8400
338	28010	EGLINTON AVE. E.	150M E OF KENNEDY RD.	HURONTARIO ST.	1.50	6	52787	79180	9.0000
343	28019	EGLINTON AVE. E.	720M E. OF KENNEDY RD./Hwy 403	150M E. OF KENNEDY RD.	0.57	6	49040	27953	3.4200
345	27005	EGLINTON AVE. E.	TOMKEN RD.	HWY 403	0.76	6	44387	33734	4.5600
348	27004	EGLINTON AVE. E.	DIXIE RD.	TOMKEN RD.	1.24	6	41627	51617	7.4400
350	26008	EGLINTON AVE. E.	ETOBICOKE CREEK	DIXIE RD.	1.56	6	48440	75566	9.3600
353	34020	EGLINTON AVE. E.	INDIAN LINE	ETOBICOKE CREEK	2.52	6	57293	144379	15.1200
361		ERIN CENTRE BLVD	TENTH LINE	WINSTON CHURCHILL BLVD.	0.73	2	9627	6979	1.4500
363	39116	ERIN CENTRE BLVD	ERIN MILLS PARKWAY	WINSTON CHURCHILL BLVD	1.38	4	25160	34721	5.5200
368	39111	ERIN CENTRE BLVD	MISSISSAUGA RD	ERIN MILLS PARKWAY	1.50	4	18267	27400	6.0000
371	23007	ERINDALE STN RD	DUNDAS STREET	BURNHAMTHORPE RD	2.08	4	23053	47951	8.3200
374		FINANCIAL DRIVE	DERRY ROAD	MEADOWVALE BLVD.	0.35	4	14613	5115	1.4000
375		FINANCIAL DRIVE	MEADOWVALE BLVD.	N. CITY LIMITS	0.65	4	22520	14638	2.6000
379	17005	FOWLER DR.	ERIN MILLS PARKWAY	NORTH SHERIDAN WAY	0.44	2	6947	3057	0.8800
380	17074	FOWLER DR.	LINCOLN GREEN WAY	NORTH SHERIDAN WAY	0.25	2	6947	1737	0.5000

Table B-2

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

2031 LEVEL OF SERVICE ANALYSIS

						Pk Hr to 24-Hr Factor			0.0750
Link #	Sec. No	Name	From	To	Length (km)	Number of Lanes	2031 ADT	Vehicle KMs	Lane KMs
381	25017	GLEN ERIN DR.	COLLEGEWAY	DUNDAS ST.	1.28	4	19000	24320	5.1200
384	25008	GLEN ERIN DR.	COLLEGEWAY	ROGERS RD.	0.86	4	20133	17315	3.4400
387	32004	GLEN ERIN DR.	ROGERS RD.	FOLKWAY DR.	0.73	4	16440	12001	2.9200
388	32049	GLEN ERIN DR.	FOLKWAY DR.	HWY. 403	0.36	4	17520	6307	1.4400
389	32022	GLEN ERIN DR.	N. OF 403	EGLINTON AVE. W	0.78	4	26480	20654	3.1200
391	39078	GLEN ERIN DR.	ERIN CENTRE BLVD.	EGLINTON AVE.	0.62	4	10400	6448	2.4800
392	39117	GLEN ERIN DR.	THOMAS ST..	ERIN CENTRE BLVD.	1.22	4	19667	23993	4.8800
395	39146	GLEN ERIN DR.	THOMAS ST.	BRITANNIA RD. W.	1.20	4	8733	10480	4.8000
398	46040	GLEN ERIN DR.	50mS INLAKE CT.	BRITANNIA RD.	0.49	4	17307	8480	1.9600
400	46010	GLEN ERIN DR.	AQUITAINE AVE.	50mS INLAKE CT.	1.70	4	16667	28333	6.8000
404	46019	GLEN ERIN DR.	DERRY RD.	AQUITAINE AVE.	1.00	2	29227	29227	2.0000
407	40004	GOREWAY DR.	WOODBINE ENTRANCE	427 R.O.W.	0.76	4	19213	14602	3.0400
409	40011	GOREWAY DR.	DERRY RD.	WOODBINE ENTRANCE	1.50	4	19880	29820	6.0000
412	48001	GOREWAY DR.	ETUDE DR.	DERRY RD.	0.56	4	24547	13746	2.2400
413	48002	GOREWAY DR.	ETUDE DR.	C.N.R.	1.60	4	30973	49557	6.4000
417		HIGHWAY 401 WB OFF RAMP	HIGHWAY 401	ENTERPRISE DRIVE	1.30	2	8747	11371	2.6000
420		HIGHWAY 403 WB OFF RAMP	HIGHWAY 403	NORTH SERVICE ROAD	2.00	2	960	1920	4.0000
421	22048	HILLCREST AVE	HURONTARIO ST.	CONFEDERATION PARKWAY	0.53	4	32160	17045	2.1200
423	8001	HURONTARIO ST.	PARK STREET	LAKESHORE RD.	0.24	4	19027	4566	0.9600
424	8001	HURONTARIO ST.	Q.E.W.	PARK STREET	1.80	4	42787	77016	7.2000
429	15030	HURONTARIO ST.	Q.E.W.	HARBORN RD.	0.25	4	50373	12593	1.0000
432		HURONTARIO ST.	QUEENSWAY	HARBORN RD.	0.55	4	37373	20555	2.2000
434	15022	HURONTARIO ST.	QUEENSWAY	DUNDAS ST.	1.10	4	31093	34203	4.4000
437	22019	HURONTARIO ST.	DUNDAS ST.	C.P.R.	0.68	6	56547	38452	4.0800
439	22001	HURONTARIO ST.	C.P.R.	BURNHAMTHORPE RD.	1.46	6	63360	92506	8.7600
443	29005	HURONTARIO ST.	S. LIMIT HWY. 403	BURNHAMTHORPE RD.	0.78	6	72933	56888	4.6800
448		HURONTARIO ST.	S. LIMIT HWY. 403	N. LIMIT HWY. 403	0.10	6	55200	5520	0.6000
452	29006	HURONTARIO ST.	EGLINTON AVE.	N. LIMIT HWY. 403	0.68	6	56240	38243	4.0800
455	37002	HURONTARIO ST.	EGLINTON AVE.	150 M S. OF MATHESON BLVD.	1.80	6	57507	103512	10.8000
459	37003	HURONTARIO ST.	150MS.OF MATHESON BLVD.	210MN.OF WATLINE AVE.	0.62	6	57213	35472	3.7200
462	37004	HURONTARIO ST.	210 M N. OF WATLINE AVE.	BRITANNIA RD.	0.60	6	42627	25576	3.6000
464	44001	HURONTARIO ST.	BRITANNIA RD.	200m N. THEREOF	0.20	6	74827	14965	1.2000
465	44005	HURONTARIO ST.	DERRY RD.W.	NORTH SIDE OF 401	2.50	6	69827	174567	15.0000
473	44005	HURONTARIO ST.	NORTH SIDE OF 401	SOUTH SIDE OF 401	0.04	8	60453	2418	0.3200
474	44005	HURONTARIO ST.	DERRY RD.W.	SOUTH SIDE OF 401	0.34	6	57480	19543	2.0400
476	52002	HURONTARIO ST.	DERRY RD.W.	N.CITY LIMITS	0.76	6	56493	42935	4.5600
486		HURONTARIO RAMP TERMINAL	HWY 401	BRITANNIA	0.90	4	13040	11736	3.6000
488	9027	INDIAN RD.	LORNEPARK RD.	WOODEDEN DR.	1.54	2	11707	18028	3.0800
489	9028	INDIAN RD.	WOODEDEN DR.	760mE.THEREOF	0.76	2	8680	6597	1.5200
490	8030	INDIAN RD.	MISSISSAUGA RD.	480m W. THEREOF	0.48	2	8680	4166	0.9600
491		KATESON DRIVE	0.46KM SOUTH OF COURTNEYPARK	COURTNEY PARK DRIVE	0.46	4	267	123	1.8400
492		KATESON DRIVE	0.46KM SOUTH OF COURTNEYPARK	MADILL DRIVE	0.45	4	267	120	1.8000
493	36004	KENNEDY RD.	MATHESON BLVD.	EGLINTON AVE.	1.50	4	34467	51700	6.0000
497	36005	KENNEDY RD.	MATHESON BLVD.	S. LIMITS OF 401	1.50	4	29200	43800	6.0000
502	43004	KENNEDY RD.	COURTNEYPARK DR.	N. OF 401 OVERPASS	1.52	4	22453	34129	6.0800
504	43003	KENNEDY RD.	DERRY RD.	COURTNEYPARK DR.	1.24	4	21613	26801	4.9600
508	51001	KENNEDY RD.	DERRY RD.	N.CITY LIMITS	0.60	4	26320	15792	2.4000
512	15062	KING ST.	HURONTARIO ST.	CONFEDERATION PARKWAY	0.38	4	10973	4170	1.5200
513	14025	KING ST.	HURONTARIO ST.	CAMILLA RD	0.51	4	10000	5100	2.0400
515	21002	KIRWIN AVE	HURONTARIO ST.	DUNDAS ST	0.85	4	18640	15844	3.4000
517	4003	LAKESHORE RD.	WINSTON CHURCHILL BLVD.	SOUTHDOWN RD.	2.00	2	24240	48480	4.0000
521	3014	LAKESHORE RD.	SOUTHDOWN RD.	MEADOWWOOD RD.	1.14	4	33920	38669	4.5600
524	3013	LAKESHORE RD.	SILVERBIRCH TRAIL	MEADOWWOOD RD.	0.70	4	23000	16100	2.8000
525	3054	LAKESHORE RD.	BEXHILL RD.	SILVERBIRCH TRAIL	0.18	4	23000	4140	0.7200
526	2008	LAKESHORE RD.	BEXHILL RD.	OWENWOOD DR.	0.23	4	23000	5290	0.9200
527	2006	LAKESHORE RD.	BALBOA DR.	OWENWOOD DR.	1.63	4	21253	34643	6.5200
528	2003	LAKESHORE RD.	BALBOA DR.	GODFREY LANE	0.40	4	21253	8501	1.6000
529	8025	LAKESHORE RD.	STAVEBANK RD.	GODFREY LANE	1.52	4	42227	64185	6.0800
533	8027	LAKESHORE RD.	HURONTARIO ST.	STAVEBANK RD.	0.44	4	46600	20504	1.7600
536	7006	LAKESHORE RD.	HURONTARIO ST.	SENECA AVE.	1.06	4	33173	35164	4.2400
539	7005	LAKESHORE RD.	SENECA AVE.	CAWTHRA RD.	0.97	4	30133	29229	3.8800
541	1006	LAKESHORE RD.	CAWTHRA RD.	EAST AVE.	0.36	4	25973	9350	1.4400
542	1004	LAKESHORE RD.	ETOBICOKE CR.	EAST AVE.	2.30	4	31747	73017	9.2000
546	18002	LEANNE BLVD.	ERIN MILLS PARKWAY	NORTH SHERIDAN WAY	0.64	2	3173	2031	1.2800
548	17016	LINCOLN GREEN WAY	ERIN MILLS PARKWAY	FOWLER DR.	0.25	2	9013	2253	0.5000
549	10014	LORNEPARK RD.	TRUSCOTT DR.	INDIAN RD.	0.56	2	6293	3524	1.1200
550	38010	MAIN STREET	QUEEN STREET	ALBERT STREET	0.53	2	10373	5498	1.0600
551		MARITZ DRIVE	DERRY ROAD	LONGSIDE DRIVE	0.45	4	13467	6060	1.8000
552		MADILL DRIVE EXT.	KATESON DRIVE	HIGHWAY 401	0.30	3	8107	2432	0.9000
553		MARITZ DRIVE	LONGSIDE DRIVE	COURTNEYPARK DRIVE	0.97	4	12320	11950	3.8800
555		MATHESON BLVD. W.	TERRY FOX WAY	MAVIS RD.	0.70	4	20653	14457	2.8000
557	37112	MATHESON BLVD. W.	MCLAUGHLIN RD.	MAVIS RD.	0.70	4	17080	11956	2.8000
559	37087	MATHESON BLVD. W.	MCLAUGHLIN RD.	HURONTARIO ST.	1.35	4	30547	41238	5.4000
565	36008	MATHESON BOULEVARD E.	HURONTARIO ST.	KENNEDY RD.	1.40	4	28733	40227	5.6000
568	36003	MATHESON BOULEVARD E.	KENNEDY RD.	60mW. OF TIMBERLEA BLVD.	0.98	4	26213	25689	3.9200
569	36013	MATHESON BOULEVARD E.	TOMKEN RD.	60MW. OF TIMBELEA BLVD.	0.41	4	26213	10747	1.6400
570	35003	MATHESON BOULEVARD E.	TOMKEN RD.	LITTLE ETOBICOKE CREEK	0.31	4	20267	6283	1.2400
571	35001	MATHESON BOULEVARD E.	LITTLE ETOBICOKE CREEK	DIXIE RD.	1.06	4	14280	15137	4.2400
573		MATHESON BOULEVARD E.	E OF DIXIE RD.	CREEKBANK RD.	0.95	4	14120	13414	3.8000
574		MATHESON BOULEVARD E.	CREEKBANK RD.	EXPLORER DR.	0.60	4	23640	14184	2.4000
575	34010	MATHESON BOULEVARD E.	EXPLORER DR (W. END)	20mE OF ORBITOR DRIVE	1.30	4	37680	48984	5.2000
578	34004	MATHESON BOULEVARD E.	ORBITOR DR.	240mSE.OF COMMERCE BLVD.	1.38	4	34867	48116	5.5200
580		MATHESON BOULEVARD E.	240m SE of COMMERCE BLVD.	EGLINTON AVE.	0.35	4	22387	7835	1.4000
582	15020	MAVIS RD.	QUEENSWAY	DUNDAS ST.	1.10	4	39080	42988	4.4000
584		MAVIS RD.	DUNDAS ST.	CPR CROSSING	0.70	6	32600	22820	4.2000

Table B-2

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

2031 LEVEL OF SERVICE ANALYSIS

						Pk Hr to 24-Hr Factor			0.0750
Link #	Sec. No	Name	From	To	Length (km)	Number of Lanes	2031 ADT	Vehicle KMs	Lane KMs
585	23001	MAVIS RD.	CENTRAL PARKWAY	BURNHAMTHORPE RD.	0.70	6	43453	30417	4.2000
586	23001	MAVIS RD.	CPR XING	CENTRAL PARKWAY	0.60	6	38453	23072	3.6000
587	30001	MAVIS RD.	BURNHAMTHORPE RD.	HWY. 403	1.00	6	71920	71920	6.0000
592	30007	MAVIS RD.	HWY. 403	EGLINTON AVE. W.	1.00	6	59200	59200	6.0000
596	37097	MAVIS RD.	EGLINTON AVE. W.	WINTERTON WAY	0.59	6	51400	30326	3.5400
597	37091	MAVIS RD.	RICHBOROUGH AVE.	WINTERTON WAY	0.30	6	47667	14157	1.7820
598	37098	MAVIS RD.	RICHBOROUGH AVE.	BRITANNIA RD. W.	2.20	6	56653	124637	13.2000
603		MAVIS RD.	BRITANNIA RD.	HWY 401	1.40	6	74720	104608	8.4000
608		MAVIS RD.	HWY 401	COURTNEYPARK DR.	0.50	6	59787	29893	3.0000
612		MAVIS RD.	COURTNEYPARK DR.	DERRY ROAD	1.30	6	56933	74013	7.8000
615		MAVIS RD.	DERRY RD.	HWY 407	1.45	6	57533	83423	8.7000
630	44004	McLAUGHLIN RD.	DERRY RD.	1.8km S'LY	1.80	4	30547	54984	7.2000
625	37001	McLAUGHLIN RD.	BRITANNIA RD.	CERMENONIAL DR. N.	1.43	4	24987	35806	5.7320
632	52001	McLAUGHLIN RD.	DERRY RD.	N.CITY LIMITS	1.06	4	31960	33878	4.2400
620	37050	McLAUGHLIN RD.	BRISTOL RD.	EGLINTON AVE.	0.90	4	20147	18132	3.6000
628	44002	McLAUGHLIN RD.	BRITANNIA RD.	900m N'LY	0.90	4	23853	21468	3.6000
623	37049	McLAUGHLIN RD.	BRISTOL RD.	367mN THEREOF	0.37	4	10867	3988	1.4680
624	37123	McLAUGHLIN RD.	367 M. NORTH OF BRISTOL RD.	CEREMONIAL DR.	0.36	4	18547	6677	1.4400
629	44003	McLAUGHLIN RD.	900mN. OF BRITANNIA RD.	320m THEREOF	0.32	4	36053	11537	1.2800
639	54021	MEADOWPINE BLVD	FIFTH LINE	.82KM WEST	0.82	4	13533	11111	3.2840
638	54035	MEADOWPINE BLVD	.82KM W OF FIFTH LINE	BRAMPTON T/L	0.70	4	18080	12656	2.8000
640	54031	MEADOWPINE BLVD	FIFTH LINE	EAST END/MULLET CREEK	0.55	4	0	0	2.2000
647	54003	MEADOWVALE (FIFTH LINE)	MEADOWPINE	N CITY LIMITS	0.70	4	19587	13711	2.8000
646	54003	MEADOWVALE (FIFTH LINE)	MEADOWVALE BLVD	MEADOWPINE	0.50	4	22707	11353	2.0000
643	54010	MEADOWVALE BLVD	MISSISSAUGA RD	FIFTH LINE WEST	1.40	4	22707	31789	5.6000
641	53010	MEADOWVALE BLVD	MISSISSAUGA RD	DERRY ROAD	0.90	4	25187	22668	3.6000
651	46004	MILLCREEK DR.	AQUITAINE AVE.	ERIN MILLS PKWY.	1.36	4	32373	44028	5.4400
650	46036	MILLCREEK DR.	DERRY RD.	AQUITAINE AVE.	0.48	4	22200	10656	1.9200
653	7086	MINEOLA RD.	HURONTARIO ST.	ATWATER AVE.	1.29	2	6520	8411	2.5800
656	8021	MISSISSAUGA RD.	MISSISSAUGA CR.	LAKESHORE RD.	2.26	2	18480	41765	4.5200
678	46001	MISSISSAUGA RD.	KITIMAT RD.	CPR CROSSING	0.90	4	19093	17184	3.6000
670	24026	MISSISSAUGA RD.	BURNHAMTHORPE RD.	THE COLLEGEWAY	1.38	2	4480	6182	2.7600
662	16005	MISSISSAUGA RD.	BEAVERBROOK WAY	MISSISSAUGA CR.	1.10	2	10853	11939	2.2000
665	17006	MISSISSAUGA RD.	100m W. SHAWANAGA TRAIL	GLATTS LN.	1.09	2	5120	5581	2.1800
675	39033	MISSISSAUGA RD.	EGLINTON AVE.	C.P.R. CROSSING	1.06	2	14133	15024	2.1260
673	31015	MISSISSAUGA RD.	440mN. OF BURNHAMTHORPE RD.	HYDRO R.O.W.	1.00	2	6720	6720	2.0000
674	31002	MISSISSAUGA RD.	EGLINTON AVE.	HYDRO R.O.W.	1.00	2	6720	6720	2.0000
677	46030	MISSISSAUGA RD.	ERIN MILLS PKWY.	KITIMAT RD.	0.43	4	19093	8210	1.7200
666	17024	MISSISSAUGA RD.	GLATTS LN.	LOYALIST CREEK	0.80	2	5120	4096	1.6000
664	16021	MISSISSAUGA RD.	100mW.OF SHAWANANGA TRAIL	BEAVERBROOK WAY	0.72	2	5120	3686	1.4400
667	17010	MISSISSAUGA RD.	1stCURVE S.OF DUNDAS ST.	LOYALIST CREEK	0.53	2	11640	6169	1.0600
668	17025	MISSISSAUGA RD.	DUNDAS ST.	1st CURVE SOUTH	0.44	2	12947	5697	0.8800
672	24014	MISSISSAUGA RD.	BURNHAMTHORPE RD.	440mN'LY	0.44	2	6720	2957	0.8800
669	24013	MISSISSAUGA RD.	COLLEGEWAY	DUNDAS ST.	0.38	2	16187	6151	0.7600
680	48015	MORNING STAR DR.	AIRPORT RD.	GOREWAY DR.	1.44	2	18933	27264	2.8800
688	47009	MORNING STAR DR.	DARCEL AVE.	MEYER DR.	0.66	2	8947	5905	1.3200
685	47010	MORNING STAR DR.	GOREWAY DR.	DARCEL AVE.	0.52	2	19893	10345	1.0400
689	47008	MORNING STAR DR.	MEYER DR.	INDIAN LINE	0.44	2	15920	7005	0.8800
697	57003	NINTH LINE	EGLINTON AVE.	BRITANNIA RD.	3.08	4	31587	97287	12.3200
708	55003	NINTH LINE	HWY.#401	DERRY RD.	2.45	4	35680	87416	9.8000
703	56022	NINTH LINE	0.1 KM S. OF DOUG LEAVENS BLVD	BRITANNIA RD.	1.67	4	26120	43620	6.6800
706	56004	NINTH LINE	DERRY RD.	0.1 KM S. OF DOUG LEAVENS BLVD	1.40	4	28987	40581	5.6000
691	59002	NINTH LINE	BURNHAMTHORPE RD.	DUNDAS ST.	2.10	2	22773	47824	4.2000
695	58002	NINTH LINE	EGLINTON AVE.	1100mS. THEREOF	1.10	2	17200	18920	2.2000
693	58004	NINTH LINE	BURNHAMTHORPE RD.	1000mN'LY	1.00	2	17200	17200	2.0000
714		NORTH HWY. 403 SERVICE RD	MAVIS RD.	HURONTARIO ST.	2.04	2	2640	5386	4.0800
724	13001	NORTH SERVICE RD.	DIXIE RD.	CAWTHRA RD.	2.16	2	14653	31651	4.3200
721	14001	NORTH SERVICE RD.	CAWTHRA RD.	PEAR TREE RD.	0.86	2	8507	7316	1.7200
717	14003	NORTH SERVICE RD.	HURONTARIO ST.	CAMILLA RD.	0.58	2	14773	8569	1.1600
719	14002	NORTH SERVICE RD.	CAMILLA RD.	CLIFF RD.	0.55	2	10347	5691	1.1000
720	14028	NORTH SERVICE RD.	CLIFF RD.	PEAR TREE RD.	0.37	2	8507	3147	0.7400
727	12010	NORTH SERVICE RD.	DIXIE RD.	BRENTANO BLVD.	0.52	1	14520	7550	0.5200
728	18001	NORTH SHERIDAN WAY	WINSTON CHURCHILL BLVD.	ERIN MILLS PKWY.	2.60	2	14627	38029	5.2000
734	17076	NORTH SHERIDAN WAY	100 m W. OF SPRINGBANK RD.	FOWLER DR.	1.30	2	9360	12168	2.6000
736	17001	NORTH SHERIDAN WAY	SHAWANAGA TRAIL	100 m W. OF SPRINGBANK RD.	1.25	2	5747	7183	2.5000
737	16070	NORTH SHERIDAN WAY	MISSISSAUGA RD.	SHAWANAGA TRAIL	1.02	2	5747	5862	2.0400
741	6007	OGDEN AVE.	SOUTH SERICE RD.	STRATHY AVE.	0.60	2	7320	4392	1.2000
739	6006	OGDEN AVE.	HALLIDAY AVE.	CNR	0.58	2	7600	4370	1.1500
740	6014	OGDEN AVE.	STRATHY AVE.	HALLIDAY AVE.	0.46	2	6080	2797	0.9200
738	6065	OGDEN AVE.	CNR	LAKESHORE RD.	0.37	2	3800	1387	0.7300
742	26017	PONYTRAIL DR.	RATHBURN RD. EAST	BURNHAMTHORPE RD.	0.42	2	11373	4777	0.8400
745	39002	QUEEN ST.	ELLEN ST.	BARRY AVE.	1.04	2	13480	14019	2.0800
749	39003	QUEEN ST.	CPR XING	ELLEN ST.	0.78	2	24307	18959	1.5600
744	39001	QUEEN ST.	C.P.R.	BARRY AVE.	0.76	2	11533	8765	1.5200
751	30008	RATHBURN RD. W.	150mW.OF CREDITVIEW RD.	MAVIS RD.	1.98	4	21387	42346	7.9200
758	29007	RATHBURN RD. W.	MAVIS RD.	CITY CENTER DR.	1.90	4	14973	28449	7.6000
766	29011	RATHBURN RD. W.	HURONTARIO ST.	250m W. THEREOF	0.25	4	23947	5987	1.0000
774	27006	RATHBURN ROAD. E.	CAWTHRA RD.	DIXIE RD.	2.05	4	17947	36791	8.2000
781	26006	RATHBURN ROAD. E.	DIXIE RD.	FIELDGATE DR.	0.95	4	12040	11438	3.8000
772	28082	RATHBURN ROAD. E.	CENTRAL PARKWAY EAST	WILCOX RD.	0.90	4	16320	14688	3.6000
785	26002	RATHBURN ROAD. E.	PONYTRAIL DR.	ETOBICOKE CREEK	0.90	4	0	0	3.6000
770	28081	RATHBURN ROAD. E.	SHIPP DR./SHERWOODTOWNE BLVD.	CENTRAL PARKWAY EAST	0.85	4	17467	14847	3.4000
784	26018	RATHBURN ROAD. E.	FIELDGATE DR.	E. LEG RATHBURN RD.	0.57	2	10960	6247	1.1400
768	28012	RATHBURN ROAD. E.	HWY# 10	SHERWOODTOWNE BLVD.	0.24	4	19053	4573	0.9600
773	28002	RATHBURN ROAD. E.	WILCOX RD.	CAWTHRA RD.	0.22	4	17400	3828	0.8800
786	59043	RIDGEWAY DR.	BURNHAMTHORPE RD. W.	DUNDAS ST. WEST	2.25	4	18453	41520	9.0000
792		RIDGEWAY DR.	UNITY DR.	EGLINTON AVE.	1.30	4	20173	26225	5.2000
790	58010	RIDGEWAY DR.	UNITY DR.	BURNHAMTHORPE RD.	0.78	4	13493	10525	3.1200
795	4005	ROYAL WINDSOR DR	SOUTHDOWN RD	WINSTON CHURCHILL BLVD	2.10	4	34307	72044	8.4000
800	18017	SHERIDAN PARK DR	ERIN MILLS PARKWAY	W'LY END	1.12	2	10653	11932	2.2400
799		SHERIDAN PARK DR	SPEAKMAN DRIVE EAST	SPEAKMAN DRIVE WEST	1.00	2	2453	2453	2.0000
798	18007	SHERIDAN PARK DR	WINSTON CHURCHILL BLVD	SPEAKMAN DR	0.15	2	10107	1516	0.3000

Table B-2

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

2031 LEVEL OF SERVICE ANALYSIS

						Pk Hr to 24-Hr Factor			0.0750
Link #	Sec. No	Name	From	To	Length (km)	Number of Lanes	2031 ADT	Vehicle KMs	Lane KMs
805	6017	SOUTH SERVICE RD.	OGDEN AVE.	CAWTHRA RD.	1.12	2	17227	19294	2.2400
804	7026	SOUTH SERVICE RD.	KENMUIR AVE.	CAWTHRA RD.	0.94	2	11427	10741	1.8800
803	7032	SOUTH SERVICE RD.	200m W.OF CRESTVIEW AVE.	KENMUIR AVE.	0.92	2	11720	10782	1.8400
806	6016	SOUTH SERVICE RD.	300 m W. OF DIXIE RD.	OGDEN AVE.	0.70	2	10067	7047	1.4000
802	7031	SOUTH SERVICE RD.	HURONTARIO ST.	200m W.OF CRESTVIEW AVE.	0.50	2	11840	5920	1.0000
808		SOUTH SERVICE RD.	DIXIE RD.	EASTERLY END	0.70	1	25000	17500	0.7000
807	6015	SOUTH SERVICE RD.	DIXIE RD.	W'LY 300M	0.30	2	11413	3424	0.6000
809	11008	SOUTH SHERDIAN WAY	WINSTON CHURCHILL BLVD.	240mW OF BENEDET DR.	0.90	2	3573	3216	1.8000
813	10031	SOUTH SHERIDAN WAY	SOUTHDOWN RD.	50mW. OF CLARKSON RD.	0.85	6	41160	34986	5.1000
817	9019	SOUTH SHERIDAN WAY	INDIAN RD.	200mW.MISSISSAUGA RD.	2.50	2	4080	10200	5.0000
810	11010	SOUTH SHERIDAN WAY	240mW.OF BENEDET DR.	PHEDORA DR.	1.36	2	3573	4860	2.7200
815	10032	SOUTH SHERIDAN WAY	50mW.CLARKSON RD.	920mE.THEREOF	0.92	2	15800	14536	1.8400
819	8028	SOUTH SHERIDAN WAY	MISSISSAUGA RD.	200m WEST OF MISSISSAUGA RD	0.20	2	5040	1008	0.4000
822	11001	SOUTHDOWN RD.	Q.E.W.	LAKESHORE RD.	1.84	4	60773	111823	7.3600
820	4001	SOUTHDOWN RD.	ROYAL WINDSOR DR.	LAKESHORE RD.W.	2.06	2	13453	27714	4.1200
837	56003	TENTH LINE	DERRY RD.	200mS BATTLEFORD RD.	1.78	4	14533	25869	7.1200
836	56013	TENTH LINE	200mS. OF BATTLEFORD RD.	BRITANNIA RD.	1.28	4	8680	11110	5.1200
834	57002	TENTH LINE	EGLINTON AVE.	DUNCAIRN DRIVE	1.24	4	19840	24602	4.9600
830	57002	TENTH LINE	SOUTH OF THOMAS STREET	BRITANNIA RD.	1.19	4	28733	34193	4.7600
842	55036	TENTH LINE	AVALON DRIVE	RAILWAY TRACKS	0.90	4	8493	7644	3.6000
833	57002	TENTH LINE	SOUTH OF THOMAS STREET	DUNCAIRN DRIVE	0.70	4	12520	8764	2.8000
844		TENTH LINE	ARGENTIA ROAD	N'LY END	0.82	2	0	0	1.6400
841	55002	TENTH LINE	DERRY	AVALON DRIVE	0.40	4	4067	1627	1.6000
843	55036	TENTH LINE	RAILWAY TRACKS	ARGENTIA ROAD	0.30	4	2067	620	1.2000
846	38143	TERRY FOX WAY	DREAM CREST	BRITANNIA RD.	2.46	2	20107	49462	4.9200
845	38001	TERRY FOX WAY	EGLINTON AVE.	DREAM CREST.	0.60	2	12987	7792	1.2000
855	25004	THE COLLEGEWAY	WINSTON CHURCHILL BLVD	ERIN MILLS PARKWAY	1.84	4	14333	26373	7.3600
859	24021	THE COLLEGEWAY	ERIN MILLS PARKWAY	MISSISSAUGA RD	1.64	4	18600	30504	6.5600
852	59045	THE COLLEGEWAY	WINSTON CHURCHILL BLVD	W'LY END/RIDGEWAY DRIVE	1.33	4	12707	16900	5.3200
861		THOMAS ST.	NINTH LINE	TENTH LINE	1.41	4	2920	4117	5.6400
865	39010	THOMAS ST.	ERIN MILLS PKWY.	WINSTON CHURCHHILL BLVD.	1.30	4	24747	32171	5.2000
870	39009	THOMAS ST.	R.R. XING	WAREHAM DR.	0.86	4	27653	23782	3.4400
863		THOMAS ST.	TENTH LINE	WINSTON CHURCHILL BLVD.	0.73	4	18387	13330	2.9000
869	39035	THOMAS ST.	ERIN MILLS PKWY.	WAREHAM DR.	0.39	4	15240	5944	1.5600
874	39008	THOMAS ST.	QUEEN ST.	C.P.R.	0.20	4	7093	1419	0.8000
880	27003	TOMKEN RD.	EGLINTON AVE.	BURNHAMTHORPE RD.	2.06	4	27107	55840	8.2400
894	43005	TOMKEN RD.	DERRY RD.	COURTNEYPARK DR.	1.66	4	19867	32979	6.6400
890	43001	TOMKEN RD.	COURTNEYPARK DR.	160mS. OF BRITANNIA RD.	1.62	4	22027	35683	6.4800
875	20003	TOMKEN RD.	BLOOR ST.	DUNDAS ST.	1.10	4	14107	15517	4.4000
885	36001	TOMKEN RD.	MATHESON BLVD.	EGLINTON AVE.	1.10	4	17907	19697	4.4000
889	36011	TOMKEN RD.	150mN. OF KAMATO RD.	160mS. OF BRITANNIA RD.	1.09	4	15453	16844	4.3600
878	20009	TOMKEN RD.	BURNHAMTHORPE RD.	BLOOR ST.	1.00	4	10880	10880	4.0000
888	36010	TOMKEN RD.	MATHESON BLVD.	150 M N. OF KAMATO RD.	0.68	4	19853	13500	2.7200
896	51003	TOMKEN RD.	DERRY RD.	NORTH CITY LIMITS	0.62	4	24787	15365	2.4796
903	49009	TORBRAM RD.	DERRY RD.EAST	NORTH CITY LIMITS	2.15	6	33160	71294	12.9000
912	10013	TRUSCOTT DR.	SOUTHDOWN RD.	LORNEPARK RD.	2.11	2	12760	26924	4.2200
911	11065	TRUSCOTT DR.	SANDGATE CR.	SOUTHDOWN RD.	1.36	2	11840	16102	2.7200
909	11005	TRUSCOTT DR.	WINSTON CHURCHILL BLVD.	SANDGATE CR.	0.76	2	14613	11106	1.5200
915		WAINSCOT DRIVE	EGLINTON AVENUE	WHITE CLOVER WAY	0.40	2	10773	4309	0.8000
917	36033	WHITTLE RD	BRITANNIA RD	MATHESON BLVD	1.10	4	35067	38573	4.4000
934	57001	WINSTON CHURCHILL BLVD.	ERIN CENTRE BLVD.	BRITANNIA RD.	2.45	6	53120	130144	14.7000
921	59001	WINSTON CHURCHILL BLVD.	BURNHAMTHORPE RD.	DUNDAS ST.	2.10	6	37693	79156	12.6000
930	58001	WINSTON CHURCHILL BLVD.	ERIN CENTRE BLVD.	HWY 403	1.55	6	55653	86263	9.3000
939	56001	WINSTON CHURCHILL BLVD.	BRITANNIA RD.	1540m N'LY	1.54	6	38787	59731	9.2400
940	56002	WINSTON CHURCHILL BLVD.	1.54kmN BRITANNIA RD.	DERRY RD.W.	1.51	6	40600	61306	9.0600
926		WINSTON CHURCHILL BLVD.	BURNHAMTHORPE RD.	HWY 403	1.10	6	53507	58857	6.6000
944	55004	WINSTON CHURCHILL BLVD.	DERRY RD.	1060MN. THEREOF	1.06	6	25120	26627	6.3600
946	55001	WINSTON CHURCHILL BLVD.	SOUTH SECTION # 401	840mS. THEREOF	0.94	6	38947	36610	5.6400
950	55005	WINSTON CHURCHILL BLVD.	HWY. # 401	N.CITY LIMITS	0.27	4	57040	15401	1.0800
955		WORLD DRIVE	EDWARDS BLVD.	HURONTARIO STREET	0.30	4	14693	4408	1.2000

TOTAL	10,114,662	1563.1214
VEH. / LANE		6470.8102
POPULATION		812,000
EMPLOYMENT		519,000
POP. + EMP.		1,331,000
LANE KM PER CAPITAL		1.1744

Total Lane Kms	1563.12
Existing Lane Kms	1371.51
Difference	191.610

APPENDIX C

HISTORICAL INFRASTRUCTURE INVENTORY

TABLE C-1

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES UPDATE STUDY

1999 INFRASTRUCTURE COST

1 - ROAD NETWORK

# of lanes	Centreline km	Value/Lane km [o]	Total Value
2	107.6	$ 1,668,000	$ 179,531,844
3	0.4	$ 1,944,500	$ 680,575
4	217.4	$ 2,221,000	$ 482,834,073
5	2.3	$ 2,498,000	$ 5,620,500
6	26.9	$ 2,775,000	$ 74,764,883
Total	354.6		$ 743,431,874

2 - TRAFFIC SIGNALS

Type of intersection.	# of Intersections	Value/Inter. [1]	Total Value
4 Way	271	$ 140,000	$ 37,940,000
3 Way	63	$ 130,000	$ 8,190,000
Traffic Computer Cost	1	$ 3,000,000	$ 3,000,000
Total Intersections	334		$ 49,130,000

3 - STRUCTURES

a - Bridges

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	14	3,681.9	$ 4,000	$ 14,727,520
O-RR	1	1,229.0	$ 4,300	$ 5,284,743
O-RD	4	7,323.1	$ 3,500	$ 25,630,920
O-WAT	65	50,125.7	$ 3,500	$ 175,440,055
U-PED	6	1,061.2	$ 4,000	$ 4,244,600
Total	90	63,420.9		$ 225,327,838

b - Culverts

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	1	173.6	$ 6,000	$ 1,041,600
O-RR	0	0.0	-	-
O-RD	0	0.0	-	-
O-WAT	97	23,984.2	$ 6,000	$ 143,905,284
U-PED	0	0.0	-	-
Total	98	24,157.8		$ 144,946,884

4 - NOISE BARRIER

Barrier Location	Length (m)	Value/m [3]	Total Value
Concrete	14,045	$ 0.725	$ 10,183
wood	23,693	$ 0.825	$ 19,547
Total	37738		$ 29,729

5 - SIDEWALKS

Length of SW (Km)	Value Per Km	Total Cost
585	$ 71,340	$ 41,699,657
Total		$ 41,699,657

6 - ILLUMINATION

Centreline KM	VALUE PER KM	TOTAL COST
355	$ 215,000	$ 76,232,593

* - Average light pole spacing of luminaires every 50m (both sides)

7 - LANDSCAPING/TREE PLANTING

Centreline KM	Value/km [3]	Total cost
355	$ 70,000	$ 24,819,914

8 - RAIL GRADE SEPARATIONS

# of Rail Grade Separations	Value/Grade Separation [2]	Total Cost
10	$15M - $20M	$ 175,000,000

9 - SPECIAL ITEMS

Item	Length	Value/km	Total Cost
Concrete Median	43.0	$ 383,000	$ 16,469,000
Centre Turn Lane	127.0	$ 395,000	$ 50,165,000
Left Turn Lanes	28.5	$ 277,000	$ 7,888,960
Bicycle Lanes C-1	25.2	$ 200,000	$ 5,040,000
Bicycle Lanes C-2	6.2	$ 237,000	$ 1,469,400
Bicycle Lanes C-3	5.1	$ 2,000	$ 10,200
Total			$ 81,042,560

10 - ZEBRA STRIPED CROSSWALKS

	# Intersections	Value/Intersection	Total Value
Intersections	0	$ 7,500	$ -
Total	0		$ -

11 - RIGHT-OF-WAY PROPERTY

Land Use Type	Area (m^2)	Value/m^2	Total Value
Residential	3,500,715	$ 320	$ 1,120,700,309
Commercial	3,564,178	$ 222	$ 792,669,613
Industrial	125,140	$ 198	$ 24,738,709
Institutional [5]	19,795	$ 247	$ 4,884,308
Utility [5]	26,572	$ 247	$ 6,556,435
Road/Rail [5]	383,454	$ 247	$ 94,613,725
Park [5]	1,262	$ 247	$ 311,313
TBD [5]	942,323	$ 247	$ 232,509,357
Total	8,563,440		$ 2,276,983,769

12 - TOTAL INFRASTRUCTURE COST

Without ROW Property Value (No. 1-11)	**$ 1,561,661,050**
With ROW Property Value (No.1-12)	**$ 3,838,644,818**

Note:

[o] - Unit Cost based on 4 year weighted average analysis for new construction.

[1] - Unit Cost acquired from MRC Electrical Department

[2] - Unit Cost acquired from MRC Structural Department

[3] - Increased 2004 DC Study Value using construction index.

[4] - Parking Lot value per space, property value per m^2

[5] - Based on 1,000,000$/acre (average of residential, commercial and industrial property)

TABLE C-2

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES UPDATE STUDY

2000 INFRASTRUCTURE COST

1 - ROAD NETWORK

# of lanes	Centreline km	Value/Lane km [o]	Total Value
2	107.6	$ 1,668,000	$ 179,531,844
3	0.4	$ 1,944,500	$ 680,575
4	215.4	$ 2,221,000	$ 478,480,913
5	2.3	$ 2,498,000	$ 5,620,500
6	28.9	$ 2,775,000	$ 80,203,883
Total	354.6		$ 744,517,714

2 - TRAFFIC SIGNALS

Type of intersection.	# of Intersections	Value/Inter. [1]	Total Value
4 Way	295	$ 140,000	$ 41,300,000
3 Way	63	$ 130,000	$ 8,190,000
Traffic Computer Cost	1	$ 3,000,000	$ 3,000,000
Total Intersections	358		$ 52,490,000

3 - STRUCTURES

a - Bridges

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	14	3,681.9	$ 4,000	$ 14,727,520
O-RR	1	1,229.0	$ 4,300	$ 5,284,743
O-RD	4	7,323.1	$ 3,500	$ 25,630,920
O-WAT	66	50,484.5	$ 3,500	$ 176,695,855
U-PED	6	1,061.2	$ 4,000	$ 4,244,600
Total	91	63,779.7		$ 226,583,638

b - Culverts

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	1	173.6	$ 6,000	$ 1,041,600
O-RR	0	0.0	-	-
O-RD	0	0.0	-	-
O-WAT	99	24,511.1	$ 6,000	$ 147,066,804
U-PED	0	0.0	-	-
Total	100	24,684.7		$ 148,108,404

4 - NOISE BARRIER

Barrier Location	Length (m)	Value/m [3]	Total Value
Concrete	14,242	$ 0.725	$ 10,325
wood	24,187	$ 0.825	$ 19,954
Total	38429		$ 30,280

5 - SIDEWALKS

Length of SW (Km)	Value Per Km	Total Cost
588	$ 71,340	$ 41,934,365
Total		$ 41,934,365

6 - ILLUMINATION

Centreline KM	VALUE PER KM	TOTAL COST
355	$ 215,000	$ 76,232,593

* - Average light pole spacing of luminaires every 50m (both sides)

7 - LANDSCAPING/TREE PLANTING

Centreline KM	Value/km [3]	Total cost
355	$ 70,000	$ 24,819,914

8 - RAIL GRADE SEPARATIONS

# of Rail Grade Separations	Value/Grade Separation [2]	Total Cost
10	$15M - $20M	$ 175,000,000

9 - SPECIAL ITEMS

Item	Length	Value/km	Total Cost
Concrete Median	43.5	$ 383,000	$ 16,660,500
Centre Turn Lane	128.0	$ 395,000	$ 50,560,000
Left Turn Lanes	28.5	$ 277,000	$ 7,888,960
Bicycle Lanes C-1	26.8	$ 200,000	$ 5,360,000
Bicycle Lanes C-2	6.2	$ 237,000	$ 1,469,400
Bicycle Lanes C-3	5.1	$ 2,000	$ 10,200
Total			$ 81,949,060

10 - ZEBRA STRIPED CROSSWALKS

	# Intersections	Value/Intersection	Total Value
Intersections	0	$ 7,500	$ -
Total	0		$ -

11 - RIGHT-OF-WAY PROPERTY

Land Use Type	Area (m^2)	Value/m^2	Total Value
Residential	3,505,828	$ 320	$ 1,122,337,179
Commercial	3,569,384	$ 222	$ 793,827,368
Industrial	125,323	$ 198	$ 24,774,841
Institutional [5]	19,824	$ 247	$ 4,891,442
Utility [5]	26,611	$ 247	$ 6,566,012
Road/Rail [5]	384,014	$ 247	$ 94,751,916
Park [5]	1,264	$ 247	$ 311,767
TBD [5]	943,700	$ 247	$ 232,848,955
Total	8,575,947		$ 2,280,309,481

12 - TOTAL INFRASTRUCTURE COST

Without ROW Property Value (No. 1-11)	**$ 1,571,665,969**
With ROW Property Value (No.1-12)	**$ 3,851,975,449**

Note:

[o] - Unit Cost based on 4 year weighted average analysis for new construction.

[1] - Unit Cost acquired from MRC Electrical Department

[2] - Unit Cost acquired from MRC Structural Department

[3] - Increased 2004 DC Study Value using construction index.

[4] - Parking Lot value per space, property value per m^2

[5] - Based on 1,000,000$/acre (average of residential, commercial and industrial property)

TABLE C-3

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES UPDATE STUDY

2001 INFRASTRUCTURE COST

1 - ROAD NETWORK

# of lanes	Centreline km	Value/Lane km [o]	Total Value
2	105.4	$ 1,668,000	$ 175,845,564
3	0.4	$ 1,944,500	$ 680,575
4	218.0	$ 2,221,000	$ 484,144,463
5	2.3	$ 2,498,000	$ 5,620,500
6	33.7	$ 2,775,000	$ 93,523,883
Total	359.7		$ 759,814,984

2 - TRAFFIC SIGNALS

Type of intersection.	# of Intersections	Value/Inter. [1]	Total Value
4 Way	313	$ 140,000	$ 43,820,000
3 Way	63	$ 130,000	$ 8,190,000
Traffic Computer Cost	1	$ 3,000,000	$ 3,000,000
Total Intersections	376		$ 55,010,000

3 - STRUCTURES

a - Bridges

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	14	3,681.9	$ 4,000	$ 14,727,520
O-RR	1	1,229.0	$ 4,300	$ 5,284,743
O-RD	4	7,323.1	$ 3,500	$ 25,630,920
O-WAT	69	53,167.2	$ 3,500	$ 186,085,235
U-PED	6	1,061.2	$ 4,000	$ 4,244,600
Total	94	66,462.4		$ 235,973,018

b - Culverts

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	1	173.6	$ 6,000	$ 1,041,600
O-RR	0	0.0	-	-
O-RD	0	0.0	-	-
O-WAT	99	24,511.1	$ 6,000	$ 147,066,804
U-PED	0	0.0	-	-
Total	100	24,684.7		$ 148,108,404

4 - NOISE BARRIER

Barrier Location	Length (m)	Value/m [3]	Total Value
Concrete	14,487	$ 0.725	$ 10,503
wood	24,866	$ 0.825	$ 20,514
Total	39353		$ 31,018

5 - SIDEWALKS

Length of SW (Km)	Value Per Km	Total Cost
591	$ 71,340	$ 42,130,550
Total		$ 42,130,550

6 - ILLUMINATION

Centreline KM	VALUE PER KM	TOTAL COST
360	$ 215,000	$ 77,337,693

* - Average light pole spacing of luminaires every 50m (both sides)

7 - LANDSCAPING/TREE PLANTING

Centreline KM	Value/km [3]	Total cost
360	$ 70,000	$ 25,179,714

8 - RAIL GRADE SEPARATIONS

# of Rail Grade Separations	Value/Grade Separation [2]	Total Cost
10	$15M - $20M	$ 175,000,000

9 - SPECIAL ITEMS

Item	Length	Value/km	Total Cost
Concrete Median	44.0	$ 383,000	$ 16,852,000
Centre Turn Lane	129.0	$ 395,000	$ 50,955,000
Left Turn Lanes	28.5	$ 277,000	$ 7,888,960
Bicycle Lanes C-1	30.5	$ 200,000	$ 6,100,000
Bicycle Lanes C-2	6.2	$ 237,000	$ 1,469,400
Bicycle Lanes C-3	5.1	$ 2,000	$ 10,200
Total			$ 83,275,560

10 - ZEBRA STRIPED CROSSWALKS

	# Intersections	Value/Intersection	Total Value
Intersections	0	$ 7,500	$ -
Total	0		$ -

11 - RIGHT-OF-WAY PROPERTY

Land Use Type	Area (m^2)	Value/m^2	Total Value
Residential	3,577,861	$ 320	$ 1,145,397,336
Commercial	3,642,722	$ 222	$ 810,137,782
Industrial	127,898	$ 198	$ 25,283,879
Institutional [5]	20,232	$ 247	$ 4,991,945
Utility [5]	27,158	$ 247	$ 6,700,920
Road/Rail [5]	391,905	$ 247	$ 96,698,740
Park [5]	1,290	$ 247	$ 318,173
TBD [5]	963,089	$ 247	$ 237,633,197
Total	8,752,153		$ 2,327,161,972

12 - TOTAL INFRASTRUCTURE COST

Without ROW Property Value (No. 1-11)	**$ 1,601,860,941**
With ROW Property Value (No.1-12)	**$ 3,929,022,913**

Note:

[o] - Unit Cost based on 4 year weighted average analysis for new construction.

[1] - Unit Cost acquired from MRC Electrical Department

[2] - Unit Cost acquired from MRC Structural Department

[3] - Increased 2004 DC Study Value using construction index.

[4] - Parking Lot value per space, property value per m^2

[5] - Based on 1,000,000$/acre (average of residential, commercial and industrial property)

TABLE C-4

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES UPDATE STUDY

2002 INFRASTRUCTURE COST

1 - ROAD NETWORK

# of lanes	Centreline km	Value/Lane km [o]	Total Value
2	105.4	$ 1,668,000	$ 175,845,564
3	0.4	$ 1,944,500	$ 680,575
4	216.4	$ 2,221,000	$ 480,701,913
5	2.3	$ 2,498,000	$ 5,620,500
6	35.3	$ 2,775,000	$ 97,825,133
Total	359.7		$ 760,673,684

2 - TRAFFIC SIGNALS

Type of intersection.	# of Intersections	Value/Inter. [1]	Total Value
4 Way	320	$ 140,000	$ 44,800,000
3 Way	66	$ 130,000	$ 8,580,000
Traffic Computer Cost	1	$ 3,000,000	$ 3,000,000
Total Intersections	386		$ 56,380,000

3 - STRUCTURES

a - Bridges

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	14	3,681.9	$ 4,000	$ 14,727,520
O-RR	1	1,229.0	$ 4,300	$ 5,284,743
O-RD	4	7,323.1	$ 3,500	$ 25,630,920
O-WAT	69	53,167.2	$ 3,500	$ 186,085,235
U-PED	6	1,061.2	$ 4,000	$ 4,244,600
Total	94	66,462.4		$ 235,973,018

b - Culverts

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	1	173.6	$ 6,000	$ 1,041,600
O-RR	0	0.0	-	-
O-RD	0	0.0	-	-
O-WAT	101	25,353.1	$ 6,000	$ 152,118,804
U-PED	0	0.0	-	-
Total	102	25,526.7		$ 153,160,404

4 - NOISE BARRIER

Barrier Location	Length (m)	Value/m [3]	Total Value
Concrete	16,606	$ 0.725	$ 12,039
wood	25,717	$ 0.825	$ 21,217
Total	42323		$ 33,256

5 - SIDEWALKS

Length of SW (Km)	Value Per Km	Total Cost
594	$ 71,340	$ 42,359,552
Total		$ 42,359,552

6 - ILLUMINATION

Centreline KM	VALUE PER KM	TOTAL COST
360	$ 215,000	$ 77,337,693

* - Average light pole spacing of luminaires every 50m (both sides)

7 - LANDSCAPING/TREE PLANTING

Centreline KM	Value/km [3]	Total cost
360	$ 70,000	$ 25,179,714

8 - RAIL GRADE SEPARATIONS

# of Rail Grade Separations	Value/Grade Separation [2]	Total Cost
10	$15M - $20M	$ 175,000,000

9 - SPECIAL ITEMS

Item	Length	Value/km	Total Cost
Concrete Median	44.0	$ 383,000	$ 16,852,000
Centre Turn Lane	129.5	$ 395,000	$ 51,152,500
Left Turn Lanes	28.5	$ 277,000	$ 7,888,960
Bicycle Lanes C-1	30.5	$ 200,000	$ 6,100,000
Bicycle Lanes C-2	6.2	$ 237,000	$ 1,469,400
Bicycle Lanes C-3	5.1	$ 2,000	$ 10,200
Total			$ 83,473,060

10 - ZEBRA STRIPED CROSSWALKS

	# Intersections	Value/Intersection	Total Value
Intersections	0	$ 7,500	$ -
Total	0		$ -

11 - RIGHT-OF-WAY PROPERTY

Land Use Type	Area (m^2)	Value/m^2	Total Value
Residential	3,581,904	$ 320	$ 1,146,691,799
Commercial	3,646,839	$ 222	$ 811,053,354
Industrial	128,042	$ 198	$ 25,312,453
Institutional [5]	20,254	$ 247	$ 4,997,586
Utility [5]	27,188	$ 247	$ 6,708,493
Road/Rail [5]	392,347	$ 247	$ 96,808,024
Park [5]	1,291	$ 247	$ 318,533
TBD [5]	964,178	$ 247	$ 237,901,757
Total	8,762,045		$ 2,329,791,999

12 - TOTAL INFRASTRUCTURE COST

Without ROW Property Value (No. 1-11)	**$ 1,609,570,381**
With ROW Property Value (No.1-12)	**$ 3,939,362,380**

Note:

[o] - Unit Cost based on 4 year weighted average analysis for new construction.

[1] - Unit Cost acquired from MRC Electrical Department

[2] - Unit Cost acquired from MRC Structural Department

[3] - Increased 2004 DC Study Value using construction index.

[4] - Parking Lot value per space, property value per m^2

[5] - Based on 1,000,000$/acre (average of residential, commercial and industrial property)

TABLE C-5

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES UPDATE STUDY

2003 INFRASTRUCTURE COST

1 - ROAD NETWORK

# of lanes	Centreline km	Value/Lane km [o]	Total Value
2	103.4	$ 1,668,000	$ 172,476,204
3	0.4	$ 1,944,500	$ 680,575
4	218.4	$ 2,221,000	$ 484,988,443
5	2.3	$ 2,498,000	$ 5,620,500
6	39.1	$ 2,775,000	$ 108,619,883
Total	363.5		$ 772,385,604

2 - TRAFFIC SIGNALS

Type of intersection.	# of Intersections	Value/Inter. [1]	Total Value
4 Way	330	$ 140,000	$ 46,200,000
3 Way	69	$ 130,000	$ 8,970,000
Traffic Computer Cost	1	$ 3,000,000	$ 3,000,000
Total Intersections	399		$ 58,170,000

3 - STRUCTURES

a - Bridges

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	14	3,681.9	$ 4,000	$ 14,727,520
O-RR	1	1,229.0	$ 4,300	$ 5,284,743
O-RD	4	7,323.1	$ 3,500	$ 25,630,920
O-WAT	69	53,167.2	$ 3,500	$ 186,085,235
U-PED	6	1,061.2	$ 4,000	$ 4,244,600
Total	94	66,462.4		$ 235,973,018

b - Culverts

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	1	173.6	$ 6,000	$ 1,041,600
O-RR	0	0.0	-	-
O-RD	0	0.0	-	-
O-WAT	102	25,439.5	$ 6,000	$ 152,637,204
U-PED	0	0.0	-	-
Total	103	25,613.1		$ 153,678,804

4 - NOISE BARRIER

Barrier Location	Length (m)	Value/m [3]	Total Value
Concrete	16,606	$ 0.725	$ 12,039
wood	25,717	$ 0.825	$ 21,217
Total	42323		$ 33,256

5 - SIDEWALKS

Length of SW (Km)	Value Per Km	Total Cost
596	$ 71,340	$ 42,500,092
Total		$ 42,500,092

6 - ILLUMINATION

Centreline KM	VALUE PER KM	TOTAL COST
364	$ 215,000	$ 78,154,693

* - Average light pole spacing of luminaires every 50m (both sides)

7 - LANDSCAPING/TREE PLANTING

Centreline KM	Value/km [3]	Total cost
364	$ 70,000	$ 25,445,714

8 - RAIL GRADE SEPARATIONS

# of Rail Grade Separations	Value/Grade Separation [2]	Total Cost
10	$15M - $20M	$ 175,000,000

9 - SPECIAL ITEMS

Item	Length	Value/km	Total Cost
Concrete Median	44.0	$ 383,000	$ 16,852,000
Centre Turn Lane	130.0	$ 395,000	$ 51,350,000
Left Turn Lanes	28.5	$ 277,000	$ 7,888,960
Bicycle Lanes C-1	30.5	$ 200,000	$ 6,100,000
Bicycle Lanes C-2	9.2	$ 237,000	$ 2,180,400
Bicycle Lanes C-3	5.1	$ 2,000	$ 10,200
Total			$ 84,381,560

10 - ZEBRA STRIPED CROSSWALKS

	# Intersections	Value/Intersection	Total Value
Intersections	0	$ 7,500	$ -
Total	0		$ -

11 - RIGHT-OF-WAY PROPERTY

Land Use Type	Area (m^2)	Value/m^2	Total Value
Residential	3,637,054	$ 320	$ 1,164,347,152
Commercial	3,702,989	$ 222	$ 823,540,958
Industrial	130,014	$ 198	$ 25,702,183
Institutional [5]	20,566	$ 247	$ 5,074,533
Utility [5]	27,607	$ 247	$ 6,811,783
Road/Rail [5]	398,388	$ 247	$ 98,298,555
Park [5]	1,311	$ 247	$ 323,437
TBD [5]	979,023	$ 247	$ 241,564,676
Total	8,896,952		$ 2,365,663,277

12 - TOTAL INFRASTRUCTURE COST

Without ROW Property Value (No. 1-11)	**$ 1,625,722,741**
With ROW Property Value (No.1-12)	**$ 3,991,386,018**

Note:

[o] - Unit Cost based on 4 year weighted average analysis for new construction.

[1] - Unit Cost acquired from MRC Electrical Department

[2] - Unit Cost acquired from MRC Structural Department

[3] - Increased 2004 DC Study Value using construction index.

[4] - Parking Lot value per space, property value per m^2

[5] - Based on 1,000,000$/acre (average of residential, commercial and industrial property)

TABLE C-6

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES UPDATE STUDY

2004 INFRASTRUCTURE COST

1 - ROAD NETWORK

# of lanes	Centreline km	Value/Lane km [o]	Total Value
2	103.4	$ 1,668,000	$ 172,476,204
3	0.4	$ 1,944,500	$ 680,575
4	217.0	$ 2,221,000	$ 482,034,513
5	2.3	$ 2,498,000	$ 5,620,500
6	40.5	$ 2,775,000	$ 112,310,633
Total	363.5		$ 773,122,424

2 - TRAFFIC SIGNALS

Type of intersection.	# of Intersections	Value/Inter. [1]	Total Value
4 Way	339	$ 140,000	$ 47,460,000
3 Way	71	$ 130,000	$ 9,230,000
Traffic Computer Cost	1	$ 3,000,000	$ 3,000,000
Total Intersections	410		$ 59,690,000

3 - STRUCTURES

a - Bridges

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	14	3,681.9	$ 4,000	$ 14,727,520
O-RR	1	1,229.0	$ 4,300	$ 5,284,743
O-RD	4	7,323.1	$ 3,500	$ 25,630,920
O-WAT	69	53,167.2	$ 3,500	$ 186,085,235
U-PED	6	1,061.2	$ 4,000	$ 4,244,600
Total	94	66,462.4		$ 235,973,018

b - Culverts

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	1	173.6	$ 6,000	$ 1,041,600
O-RR	0	0.0	-	-
O-RD	0	0.0	-	-
O-WAT	102	25,439.5	$ 6,000	$ 152,637,204
U-PED	0	0.0	-	-
Total	103	25,613.1		$ 153,678,804

4 - NOISE BARRIER

Barrier Location	Length (m)	Value/m [3]	Total Value
Concrete	16,769	$ 0.725	$ 12,158
wood	25,717	$ 0.825	$ 21,217
Total	42486		$ 33,374

5 - SIDEWALKS

Length of SW (Km)	Value Per Km	Total Cost
599	$ 71,340	$ 42,721,246
Total		$ 42,721,246

6 - ILLUMINATION

Centreline KM	VALUE PER KM	TOTAL COST
364	$ 215,000	$ 78,154,693

* - Average light pole spacing of luminaires every 50m (both sides)

7 - LANDSCAPING/TREE PLANTING

Centreline KM	Value/km [3]	Total cost
364	$ 70,000	$ 25,445,714

8 - RAIL GRADE SEPARATIONS

# of Rail Grade Separations	Value/Grade Separation [2]	Total Cost
10	$15M - $20M	$ 175,000,000

9 - SPECIAL ITEMS

Item	Length	Value/km	Total Cost
Concrete Median	45.5	$ 383,000	$ 17,430,330
Centre Turn Lane	130.0	$ 395,000	$ 51,350,000
Left Turn Lanes	28.5	$ 277,000	$ 7,888,960
Bicycle Lanes C-1	30.5	$ 200,000	$ 6,100,000
Bicycle Lanes C-2	9.2	$ 237,000	$ 2,180,400
Bicycle Lanes C-3	5.1	$ 2,000	$ 10,200
Total			$ 84,959,890

10 - ZEBRA STRIPED CROSSWALKS

	# Intersections	Value/Intersection	Total Value
Intersections	0	$ 7,500	$ -
Total	0		$ -

11 - RIGHT-OF-WAY PROPERTY

Land Use Type	Area (m^2)	Value/m^2	Total Value
Residential	3,640,523	$ 320	$ 1,165,457,885
Commercial	3,706,521	$ 222	$ 824,326,578
Industrial	130,138	$ 198	$ 25,726,702
Institutional [5]	20,586	$ 247	$ 5,079,374
Utility [5]	27,633	$ 247	$ 6,818,281
Road/Rail [5]	398,768	$ 247	$ 98,392,327
Park [5]	1,312	$ 247	$ 323,746
TBD [5]	979,957	$ 247	$ 241,795,118
Total	8,905,439		$ 2,367,920,010

12 - TOTAL INFRASTRUCTURE COST

Without ROW Property Value (No. 1-11)	**$ 1,628,779,163**
With ROW Property Value (No.1-12)	**$ 3,996,699,173**

Note:

[o] - Unit Cost based on 4 year weighted average analysis for new construction.

[1] - Unit Cost acquired from MRC Electrical Department

[2] - Unit Cost acquired from MRC Structural Department

[3] - Increased 2004 DC Study Value using construction index.

[4] - Parking Lot value per space, property value per m^2

[5] - Based on 1,000,000$/acre (average of residential, commercial and industrial property)

TABLE C-7

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES UPDATE STUDY

2005 INFRASTRUCTURE COST

1 - ROAD NETWORK

# of lanes	Centreline km	Value/Lane km [o]	Total Value
2	102.1	$ 1,668,000	$ 170,307,804
3	0.4	$ 1,944,500	$ 680,575
4	218.3	$ 2,221,000	$ 484,921,813
5	2.3	$ 2,498,000	$ 5,620,500
6	40.5	$ 2,775,000	$ 112,310,633
Total	363.5		$ 773,841,324

2 - TRAFFIC SIGNALS

Type of intersection.	# of Intersections	Value/Inter. [1]	Total Value
4 Way	346	$ 140,000	$ 48,440,000
3 Way	75	$ 130,000	$ 9,750,000
Traffic Computer Cost	1	$ 3,000,000	$ 3,000,000
Total Intersections	421		$ 61,190,000

3 - STRUCTURES

a - Bridges

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	14	3,681.9	$ 4,000	$ 14,727,520
O-RR	1	1,229.0	$ 4,300	$ 5,284,743
O-RD	4	7,323.1	$ 3,500	$ 25,630,920
O-WAT	71	55,803.5	$ 3,500	$ 195,312,390
U-PED	6	1,061.2	$ 4,000	$ 4,244,600
Total	96	69,098.7		$ 245,200,173

b - Culverts

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	1	173.6	$ 6,000	$ 1,041,600
O-RR	0	0.0	-	-
O-RD	0	0.0	-	-
O-WAT	103	25,532.3	$ 6,000	$ 153,194,004
U-PED	0	0.0	-	-
Total	104	25,705.9		$ 154,235,604

4 - NOISE BARRIER

Barrier Location	Length (m)	Value/m [3]	Total Value
Concrete	16,867	$ 0.725	$ 12,229
wood	25,717	$ 0.825	$ 21,217
Total			$ 33,445

5 - SIDEWALKS

Length of SW (Km)	Value Per Km	Total Cost
608	$ 71,340	$ 43,407,536
Total		$ 43,407,536

6 - ILLUMINATION

Centreline KM	VALUE PER KM	TOTAL COST
364	$ 215,000	$ 78,154,693

* - Average light pole spacing of luminaires every 50m (both sides)

7 - LANDSCAPING/TREE PLANTING

Centreline KM	Value/km [3]	Total cost
364	$ 70,000	$ 25,445,714

8 - RAIL GRADE SEPARATIONS

# of Rail Grade Separations	Value/Grade Separation [2]	Total Cost
10	$15M - $20M	$ 175,000,000

9 - SPECIAL ITEMS

Item	Length	Value/km	Total Cost
Concrete Median	46.7	$ 383,000	$ 17,889,930
Centre Turn Lane	130.5	$ 395,000	$ 51,547,500
Left Turn Lanes	28.5	$ 277,000	$ 7,888,960
Bicycle Lanes C-1	31.0	$ 200,000	$ 6,200,000
Bicycle Lanes C-2	9.2	$ 237,000	$ 2,180,400
Bicycle Lanes C-3	6.7	$ 2,000	$ 13,400
Total			$ 85,720,190

10 - ZEBRA STRIPED CROSSWALKS

	# Intersections	Value/Intersection	Total Value
Intersections	0	$ 7,500	$ -
Total	0		$ -

11 - RIGHT-OF-WAY PROPERTY

Land Use Type	Area (m^2)	Value/m^2	Total Value
Residential	3,643,909	$ 320	$ 1,166,541,605
Commercial	3,709,968	$ 222	$ 825,093,091
Industrial	130,259	$ 198	$ 25,750,625
Institutional [5]	20,605	$ 247	$ 5,084,097
Utility [5]	27,659	$ 247	$ 6,824,621
Road/Rail [5]	399,139	$ 247	$ 98,483,819
Park [5]	1,313	$ 247	$ 324,047
TBD [5]	980,868	$ 247	$ 242,019,955
Total	8,913,720		$ 2,370,121,858

12 - TOTAL INFRASTRUCTURE COST

Without ROW Property Value (No. 1-11)	**$ 1,642,228,680**
With ROW Property Value (No.1-12)	**$ 4,012,350,538**

Note:

[o] - Unit Cost based on 4 year weighted average analysis for new construction.

[1] - Unit Cost acquired from MRC Electrical Department

[2] - Unit Cost acquired from MRC Structural Department

[3] - Increased 2004 DC Study Value using construction index.

[4] - Parking Lot value per space, property value per m^2

[5] - Based on 1,000,000$/acre (average of residential, commercial and industrial property)

TABLE C-8

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES UPDATE STUDY

2006 INFRASTRUCTURE COST

1 - ROAD NETWORK

# of lanes	Centreline km	Value/Lane km [o]	Total Value
2	102.1	$ 1,668,000	$ 170,307,804
3	0.4	$ 1,944,500	$ 680,575
4	216.3	$ 2,221,000	$ 480,324,343
5	2.3	$ 2,498,000	$ 5,620,500
6	42.5	$ 2,775,000	$ 118,054,883
Total	363.5		$ 774,988,104

2 - TRAFFIC SIGNALS

Type of intersection.	# of Intersections	Value/Inter. [1]	Total Value
4 Way	356	$ 140,000	$ 49,840,000
3 Way	75	$ 130,000	$ 9,750,000
Traffic Computer Cost	1	$ 3,000,000	$ 3,000,000
Total Intersections	431		$ 62,590,000

3 - STRUCTURES

a - Bridges

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	14	3,681.9	$ 4,000	$ 14,727,520
O-RR	1	1,229.0	$ 4,300	$ 5,284,743
O-RD	4	7,323.1	$ 3,500	$ 25,630,920
O-WAT	71	55,803.5	$ 3,500	$ 195,312,390
U-PED	6	1,061.2	$ 4,000	$ 4,244,600
Total	96	69,098.7		$ 245,200,173

b - Culverts

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	1	173.6	$ 6,000	$ 1,041,600
O-RR	0	0.0	-	-
O-RD	0	0.0	-	-
O-WAT	103	25,532.3	$ 6,000	$ 153,194,004
U-PED	0	0.0	-	-
Total	104	25,705.9		$ 154,235,604

4 - NOISE BARRIER

Barrier Location	Length (m)	Value/m [3]	Total Value
Concrete	16,867	$ 0.725	$ 12,229
wood	25,717	$ 0.825	$ 21,217
Total	42584		$ 33,445

5 - SIDEWALKS

Length of SW (Km)	Value Per Km	Total Cost
616	$ 71,340	$ 43,954,714
Total		$ 43,954,714

6 - ILLUMINATION

Centreline KM	VALUE PER KM	TOTAL COST
364	$ 215,000	$ 78,154,693

* - Average light pole spacing of luminaires every 50m (both sides)

7 - LANDSCAPING/TREE PLANTING

Centreline KM	Value/km [3]	Total cost
364	$ 70,000	$ 25,445,714

8 - RAIL GRADE SEPARATIONS

# of Rail Grade Separations	Value/Grade Separation [2]	Total Cost
10	$15M - $20M	$ 175,000,000

9 - SPECIAL ITEMS

Item	Length	Value/km	Total Cost
Concrete Median	48.0	$ 383,000	$ 18,387,830
Centre Turn Lane	130.5	$ 395,000	$ 51,547,500
Left Turn Lanes	28.5	$ 277,000	$ 7,888,960
Bicycle Lanes C-1	35.2	$ 200,000	$ 7,040,000
Bicycle Lanes C-2	10.6	$ 237,000	$ 2,512,200
Bicycle Lanes C-3	9.8	$ 2,000	$ 19,600
Total			$ 87,396,090

10 - ZEBRA STRIPED CROSSWALKS

	# Intersections	Value/Intersection	Total Value
Intersections	11	$ 7,500	$ 82,500
Total	11		$ 82,500

11 - RIGHT-OF-WAY PROPERTY

Land Use Type	Area (m^2)	Value/m^2	Total Value
Residential	3,649,309	$ 320	$ 1,168,270,340
Commercial	3,715,466	$ 222	$ 826,315,822
Industrial	130,452	$ 198	$ 25,788,785
Institutional [5]	20,636	$ 247	$ 5,091,631
Utility [5]	27,700	$ 247	$ 6,834,734
Road/Rail [5]	399,731	$ 247	$ 98,629,765
Park [5]	1,315	$ 247	$ 324,527
TBD [5]	982,322	$ 247	$ 242,378,612
Total	8,926,929		$ 2,373,634,217

12 - TOTAL INFRASTRUCTURE COST

Without ROW Property Value (No. 1-11)	**$ 1,647,081,038**
With ROW Property Value (No.1-12)	**$ 4,020,715,254**

Note:

[o] - Unit Cost based on 4 year weighted average analysis for new construction.

[1] - Unit Cost acquired from MRC Electrical Department

[2] - Unit Cost acquired from MRC Structural Department

[3] - Increased 2004 DC Study Value using construction index.

[4] - Parking Lot value per space, property value per m^2

[5] - Based on 1,000,000$/acre (average of residential, commercial and industrial property)

TABLE C-9

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES UPDATE STUDY

2007 INFRASTRUCTURE COST

1 - ROAD NETWORK

# of lanes	Centreline km	Value/Lane km [o]	Total Value
2	102.1	$ 1,668,000	$ 170,307,804
3	0.4	$ 1,944,500	$ 680,575
4	214.9	$ 2,221,000	$ 477,303,783
5	2.3	$ 2,498,000	$ 5,620,500
6	43.9	$ 2,775,000	$ 121,828,883
Total	363.5		$ 775,741,544

2 - TRAFFIC SIGNALS

Type of intersection.	# of Intersections	Value/Inter. [1]	Total Value
4 Way	370	$ 140,000	$ 51,800,000
3 Way	76	$ 130,000	$ 9,880,000
Traffic Computer Cost	1	$ 3,000,000	$ 3,000,000
Total Intersections	446		$ 64,680,000

3 - STRUCTURES

a - Bridges

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	14	3,681.9	$ 4,000	$ 14,727,520
O-RR	1	1,229.0	$ 4,300	$ 5,284,743
O-RD	4	7,323.1	$ 3,500	$ 25,630,920
O-WAT	72	56,051.3	$ 3,500	$ 196,179,690
U-PED	6	1,061.2	$ 4,000	$ 4,244,600
Total	97	69,346.5		$ 246,067,473

b - Culverts

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	1	173.6	$ 6,000	$ 1,041,600
O-RR	0	0.0	-	-
O-RD	0	0.0	-	-
O-WAT	103	25,532.3	$ 6,000	$ 153,194,004
U-PED	0	0.0	-	-
Total	104	25,705.9		$ 154,235,604

4 - NOISE BARRIER

Barrier Location	Length (m)	Value/m [3]	Total Value
Concrete	17,742	$ 0.725	$ 12,863
wood	25,717	$ 0.825	$ 21,217
Total	43459		$ 34,079

5 - SIDEWALKS

Length of SW (Km)	Value Per Km	Total Cost
620	$ 71,340	$ 44,232,940
Total		$ 44,232,940

6 - ILLUMINATION

Centreline KM	VALUE PER KM	TOTAL COST
364	$ 215,000	$ 78,154,693

* - Average light pole spacing of luminaires every 50m (both sides)

7 - LANDSCAPING/TREE PLANTING

Centreline KM	Value/km [3]	Total cost
364	$ 70,000	$ 25,445,714

8 - RAIL GRADE SEPARATIONS

# of Rail Grade Separations	Value/Grade Separation [2]	Total Cost
10	$15M - $20M	$ 175,000,000

9 - SPECIAL ITEMS

Item	Length	Value/km	Total Cost
Concrete Median	49.8	$ 383,000	$ 19,084,124
Centre Turn Lane	130.5	$ 395,000	$ 51,547,500
Left Turn Lanes	28.5	$ 277,000	$ 7,888,960
Bicycle Lanes C-1	35.2	$ 200,000	$ 7,040,000
Bicycle Lanes C-2	12.8	$ 237,000	$ 3,033,600
Bicycle Lanes C-3	9.8	$ 2,000	$ 19,600
Total			$ 88,613,784

10 - ZEBRA STRIPED CROSSWALKS

	# Intersections	Value/Intersection	Total Value
Intersections	32	$ 7,500	$ 240,000
Total	32		$ 240,000

11 - RIGHT-OF-WAY PROPERTY

Land Use Type	Area (m^2)	Value/m^2	Total Value
Residential	3,652,857	$ 320	$ 1,169,406,127
Commercial	3,719,078	$ 222	$ 827,119,163
Industrial	130,579	$ 198	$ 25,813,857
Institutional [5]	20,656	$ 247	$ 5,096,581
Utility [5]	27,727	$ 247	$ 6,841,379
Road/Rail [5]	400,119	$ 247	$ 98,725,653
Park [5]	1,317	$ 247	$ 324,842
TBD [5]	983,277	$ 247	$ 242,614,251
Total	8,935,608		$ 2,375,941,853

12 - TOTAL INFRASTRUCTURE COST

Without ROW Property Value (No. 1-11)	**$ 1,652,445,832**
With ROW Property Value (No.1-12)	**$ 4,028,387,685**

Note:

[o] - Unit Cost based on 4 year weighted average analysis for new construction.

[1] - Unit Cost acquired from MRC Electrical Department

[2] - Unit Cost acquired from MRC Structural Department

[3] - Increased 2004 DC Study Value using construction index.

[4] - Parking Lot value per space, property value per m^2

[5] - Based on 1,000,000$/acre (average of residential, commercial and industrial property)

TABLE C-10

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES UPDATE STUDY

2008 INFRASTRUCTURE COST

1 - ROAD NETWORK

# of lanes	Centreline km	Value/Lane km [o]	Total Value
2	101.5	$ 1,668,000	$ 169,307,004
3	0.4	$ 1,944,500	$ 680,575
4	212.4	$ 2,221,000	$ 471,780,156
5	2.3	$ 2,498,000	$ 5,620,500
6	47.0	$ 2,775,000	$ 130,395,308
Total	363.5		$ 777,783,542

2 - TRAFFIC SIGNALS

Type of intersection.	# of Intersections	Value/Inter. [1]	Total Value
4 Way	382	$ 140,000	$ 53,480,000
3 Way	78	$ 130,000	$ 10,140,000
Traffic Computer Cost	1	$ 3,000,000	$ 3,000,000
Total Intersections	460		$ 66,620,000

3 - STRUCTURES

a - Bridges

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	14	3,681.9	$ 4,000	$ 14,727,520
O-RR	1	1,229.0	$ 4,300	$ 5,284,743
O-RD	4	7,323.1	$ 3,500	$ 25,630,920
O-WAT	75	58,105.6	$ 3,500	$ 203,369,495
U-PED	6	1,061.2	$ 4,000	$ 4,244,600
Total	100	71,400.7		$ 253,257,278

b - Culverts

Structure Type	# of Structure	Deck Area m²	Value/m² [2]	Total Value
O-PED	1	173.6	$ 6,000	$ 1,041,600
O-RR	0	0.0	-	-
O-RD	0	0.0	-	-
O-WAT	104	25,742.3	$ 6,000	$ 154,454,004
U-PED	0	0.0	-	-
Total	105	25,915.9		$ 155,495,604

4 - NOISE BARRIER

Barrier Location	Length (m)	Value/m [3]	Total Value
Concrete	17,937	$ 0.725	$ 13,004
wood	25,897	$ 0.825	$ 21,365
Total			$ 34,369

5 - SIDEWALKS

Length of SW (Km)	Value Per Km	Total Cost
623	$ 71,340	$ 44,468,362
Total		$ 44,468,362

6 - ILLUMINATION

Centreline KM	VALUE PER KM	TOTAL COST
364	$ 215,000	$ 78,154,693

* - Average light pole spacing of luminaires every 50m (both sides)

7 - LANDSCAPING/TREE PLANTING

Centreline KM	Value/km [3]	Total cost
364	$ 70,000	$ 25,445,714

8 - RAIL GRADE SEPARATIONS

# of Rail Grade Separations	Value/Grade Separation [2]	Total Cost
10	$15M - $20M	$ 175,000,000

9 - SPECIAL ITEMS

Item	Length	Value/km	Total Cost
Concrete Median	51.4	$ 383,000	$ 19,704,584
Centre Turn Lane	130.9	$ 395,000	$ 51,705,500
Left Turn Lanes	28.5	$ 277,000	$ 7,888,960
Bicycle Lanes C-1	37.1	$ 200,000	$ 7,420,000
Bicycle Lanes C-2	17.5	$ 237,000	$ 4,147,500
Bicycle Lanes C-3	9.8	$ 2,000	$ 19,600
Total			$ 90,886,144

10 - ZEBRA STRIPED CROSSWALKS

	# Intersections	Value/Intersection	Total Value
Intersections	41	$ 7,500	$ 307,500
Total	41		$ 307,500

11 - RIGHT-OF-WAY PROPERTY

Land Use Type	Area (m^2)	Value/m^2	Total Value
Residential	3,662,472	$ 320	$ 1,172,484,375
Commercial	3,728,868	$ 222	$ 829,296,403
Industrial	130,923	$ 198	$ 25,881,807
Institutional [5]	20,710	$ 247	$ 5,109,997
Utility [5]	27,800	$ 247	$ 6,859,388
Road/Rail [5]	401,173	$ 247	$ 98,985,530
Park [5]	1,320	$ 247	$ 325,698
TBD [5]	985,865	$ 247	$ 243,252,889
Total	8,959,130		$ 2,382,196,086

12 - TOTAL INFRASTRUCTURE COST

Without ROW Property Value (No. 1-11)	**$ 1,667,453,207**
With ROW Property Value (No.1-12)	**$ 4,049,649,293**

Note:

[o] - Unit Cost based on 5 year weighted average analysis for new construction.

[1] - Unit Cost acquired from MRC Electrical Department

[2] - Unit Cost acquired from MRC Structural Department

[3] - Increased 2004 DC Study Value using construction index.

[4] - Parking Lot value per space, property value per m^2

[5] - Based on 1,000,000$/acre (average of residential, commercial and industrial property)

TABLE C-11

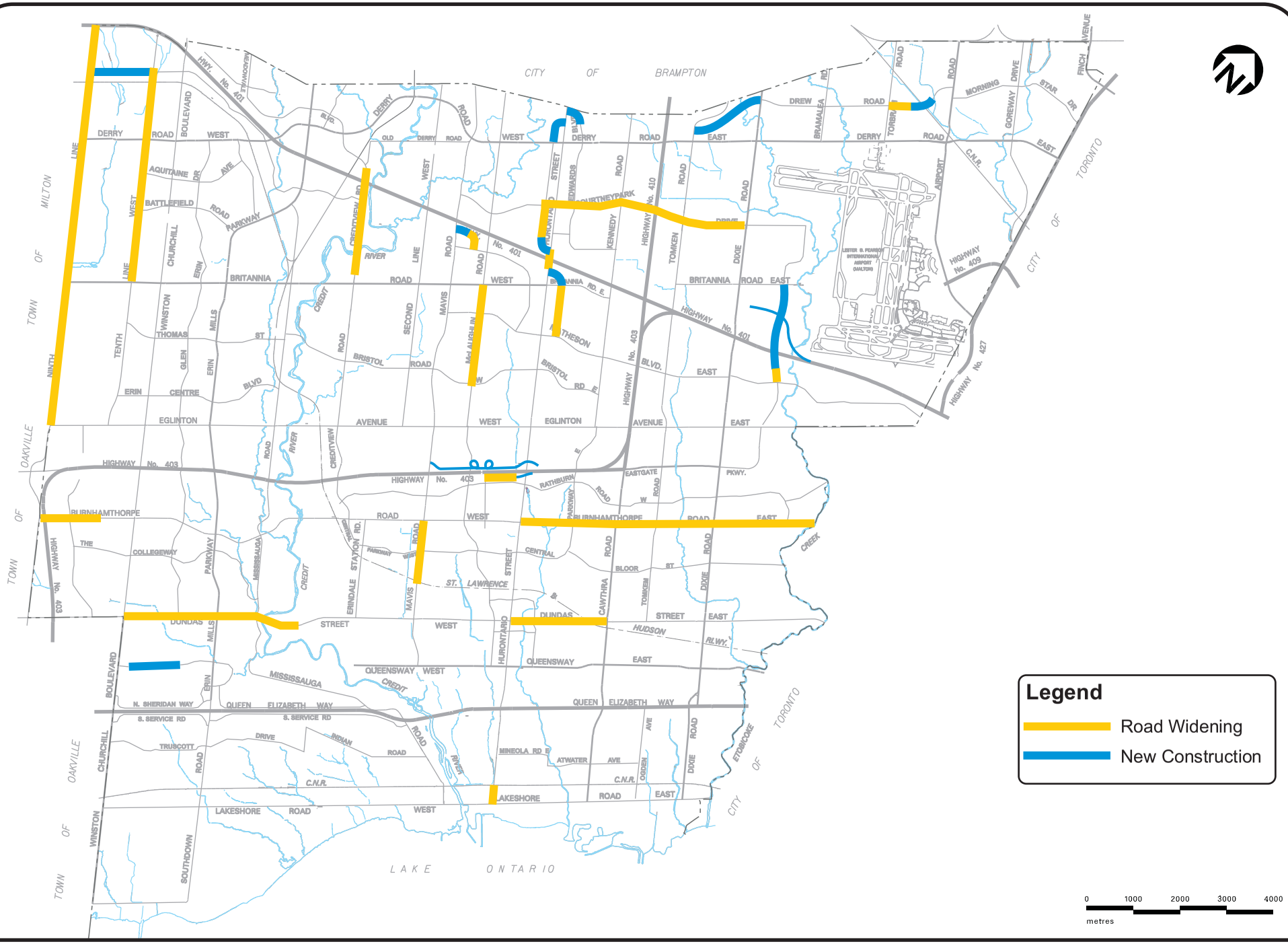
CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES UPDATE STUDY

SUMMARY OF INFRASTRUCTURE COST ANALYSIS

DESCRIPTION	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
1 - Road Network	$ 743,431,874	$ 744,517,714	$ 759,814,984	$ 760,673,684	$ 772,385,604	$ 773,122,424	$ 773,841,324	$ 774,988,104	$ 775,741,544	$ 777,783,542
2 - Traffic Signals	$ 49,130,000	$ 52,490,000	$ 55,010,000	$ 56,380,000	$ 58,170,000	$ 59,690,000	$ 61,190,000	$ 62,590,000	$ 64,680,000	$ 66,620,000
3a - Bridges	$ 225,327,838	$ 226,583,638	$ 235,973,018	$ 235,973,018	$ 235,973,018	$ 235,973,018	$ 245,200,173	$ 245,200,173	$ 246,067,473	$ 253,257,278
3b - Culverts	$ 144,946,884	$ 148,108,404	$ 148,108,404	$ 153,160,404	$ 153,678,804	$ 153,678,804	$ 154,235,604	$ 154,235,604	$ 154,235,604	$ 155,495,604
4 - Noise Barriers	$ 29,729	$ 30,280	$ 31,018	$ 33,256	$ 33,256	$ 33,374	$ 33,445	$ 33,445	$ 34,079	$ 34,369
5 - Sidewalks	$ 41,699,657	$ 41,934,365	$ 42,130,550	$ 42,359,552	$ 42,500,092	$ 42,721,246	$ 43,407,536	$ 43,954,714	$ 44,232,940	$ 44,468,362
6 - Illumination	$ 76,232,593	$ 76,232,593	$ 77,337,693	$ 77,337,693	$ 78,154,693	$ 78,154,693	$ 78,154,693	$ 78,154,693	$ 78,154,693	$ 78,154,693
7 - Landscaping/Tree Planting	$ 24,819,914	$ 24,819,914	$ 25,179,714	$ 25,179,714	$ 25,445,714	$ 25,445,714	$ 25,445,714	$ 25,445,714	$ 25,445,714	$ 25,445,714
8 - Rail Grade Separations	$ 175,000,000	$ 175,000,000	$ 175,000,000	$ 175,000,000	$ 175,000,000	$ 175,000,000	$ 175,000,000	$ 175,000,000	$ 175,000,000	$ 175,000,000
9 - Special Items	$ 81,042,560	$ 81,949,060	$ 83,275,560	$ 83,473,060	$ 84,381,560	$ 84,959,890	$ 85,720,190	$ 87,396,090	$ 88,613,784	$ 90,886,144
10 - Zebra Striped Crosswalks	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 82,500	$ 240,000	$ 307,500
11 - Property ROW	$ 2,276,983,769	$ 2,280,309,481	$ 2,327,161,972	$ 2,329,791,999	$ 2,365,663,277	$ 2,367,920,010	$ 2,370,121,858	$ 2,373,634,217	$ 2,375,941,853	$ 2,382,196,086
Total Infrastructure Value										
With ROW Property	$ 3,838,644,818	$ 3,851,975,449	$ 3,929,022,913	$ 3,939,362,380	$ 3,991,386,018	$ 3,996,699,173	$ 4,012,350,538	$ 4,020,715,254	$ 4,028,387,685	$ 4,049,649,293
Without ROW Property	$ 1,561,661,050	$ 1,571,665,969	$ 1,601,860,941	$ 1,609,570,381	$ 1,625,722,741	$ 1,628,779,163	$ 1,642,228,680	$ 1,647,081,038	$ 1,652,445,832	$ 1,667,453,207

APPENDIX D

ROAD INFRASTRUCTURE IMPROVEMENTS



MRC
A member of MMM GROUP

City of Mississauga
DEVELOPMENT CHARGES UPDATE 2009

PROPOSED
ROAD IMPROVEMENTS
FIGURE D-1

Table D-1
CITY OF MISSISSAUGA

2009 DEVELOPMENT CHARGES STUDY UPDATE

ROAD IMPROVEMENT PROGRAM COSTS ($000,000's) - DRAFT

MAJOR ROADWAY SECTIONS NAME	FROM	TO	IMP. LTH. (KM)	EX. LN.	FUT. LN.	ADDIT LANE KM.	ROAD CONST COSTS	ROAD WIDEN. COSTS	SW COSTS	ILLUM. COSTS	UTILITY COSTS	TRAFFIC SIGNAL COSTS	NEW ACSTCL. WALLS	LAND-SCAPING	HOV LANES	SPECIAL PROJ	CNTRE TURN LANE	SUBTOT. ROAD COSTS	PRPTY COSTS	STRUC. COSTS	TOTAL COSTS	GROWTH % DC	GROWTH % DEV.	NON GRTH	GROWTH COSTS DC	GROWTH COSTS DEV	NON GRTH COST	SPECIAL PROJECTS / COMMENTS
ARTERIAL ROAD SYSTEM																												
BURNHAMTHORPE RD.	NINTH LINE	LOYALIST DR.	1.60	2	4	3.20		2.70	0.05	0.34		0.73						3.83	0.00		3.83	90%		10%	3.44	0.00	0.38	-widening of overpass at Hwy. 403
BURNHAMTHORPE RD.	HURONTARIO ST.	CAWTHRA RD.	2.08	4	6	4.16		3.81		0.45		0.95	0.71			0.05		5.98	5.08	1.08	12.14	80%		20%	9.71	0.00	2.43	- structure and culvert. TPS
BURNHAMTHORPE RD.	CAWTHRA RD.	DIXIE RD.	2.20	4	6	4.40		4.03		0.47	0.26	1.01	0.42	0.15		0.11		6.45	0.82	1.36	8.64	80%		20%	6.91	0.00	1.73	- culvert. Resurfacing existing CTL
BURNHAMTHORPE RD.	DIXIE RD.	ETOBICOKE CREEK	2.20	4	6	4.40		4.03		0.47	0.26	1.01	0.89					6.66	0.64	0.21	7.51	80%		20%	6.01	0.00	1.50	-culvert. Does not include widening of the Etobicoke Creek Bridge
SUBTOTAL			8.08			16.16	0.00	14.58	0.05	1.74	0.51	3.71	2.02	0.15	0.00	0.16	0.00	22.92	6.54	2.65	32.11				26.07	0.00	6.04	
COURTNEYPARK DR.	MARITZ DRIVE	KENNEDY RD.	1.73	4	6	3.46		3.17	0.29	0.37		0.79		0.12		0.14		4.89	0.00		4.89	80%		20%	3.91	0.00	0.98	Resurfacing existing CTL. TPS
COURTNEYPARK DR.	KENNEDY RD.	TOMKEN RD.	1.45	4	6	2.90		2.66	0.24	0.31		0.67		0.10		0.22		4.21	0.00		4.21	80%		20%	3.36	0.00	0.84	Reconstrcution raised median.
COURTNEYPARK DR.	TOMKEN RD.	DIXIE RD.	1.35	4	6	2.70		2.48	0.23	0.29		0.62		0.09		0.07		3.77	1.68		5.45	80%		20%	4.36	0.00	1.09	Resurfacing existing CTL
SUBTOTAL			4.53			9.06	0.00	8.31	0.76	0.97	0.00	2.08	0.00	0.32	0.00	0.43	0.00	12.87	1.68	0.00	14.55				11.64	0.00	2.91	
DUNDAS ST. W.	WINSTON CHURCHILL BLVD.	GLEN ERIN DRIVE	1.10	4	6	2.20		2.02		0.24	0.13	0.50	0.20			0.98		4.07	0.00	0.33	4.39	80%		20%	3.52	0.00	0.88	-culvert. Resurfacing existing CTL. TPS & queue jump lanes
DUNDAS ST. W.	GLEN ERIN DRIVE	ERIN MILLS PKWY.	0.85	4	6	1.70		1.56		0.18	0.10	0.39	0.21	0.06		0.15		2.65	0.00		2.65	80%		20%	2.12	0.00	0.53	Resurfacing existing CTL. TPS
DUNDAS ST. W.	ERIN MILLS PKWY.	THE CREDIT WOODLANDS	2.22	4	6	4.44		4.07		0.48		1.02		0.16		1.03		6.75	0.00	4.35	11.09	80%		20%	8.88	0.00	2.22	TPS & queue jump lanes
DUNDAS ST. W.	HURONTARIO ST.	CAWTHRA RD.	2.10	4	6	4.20		3.85		0.45		0.96		0.15		1.29		6.70	0.09	5.22	12.00	80%		20%	9.60	0.00	2.40	TPS & queue jump lanes
SUBTOTAL			6.27			12.54	0.00	11.50	0.00	1.35	0.23	2.88	0.42	0.36	0.00	3.43	0.00	20.16	0.09	9.89	30.14				24.11	0.00	6.03	
HURONTARIO ST.	NORTH OF HWY 401	SOUTH OF HWY 401	0.10	6	8	0.20												0.00		5.50	5.50	80%		20%	4.40	0.00	1.10	Only structure costs
HURONTARIO ST.	PARK STREET EAST	LAKESHORE ROAD	0.24	4	6	0.48		0.44		0.05		0.11		0.02		0.05		0.67			1.65	80%		20%	1.32	0.00	0.33	TPS. City provided cost estimate.
SUBTOTAL			0.34			0.68	0.00	0.44	0.00	0.05	0.00	0.11	0.00	0.02	0.00	0.05	0.00	0.67	0.00	5.50	7.15				5.72	0.00	1.43	
NORTH SOUTH ARTERIAL RD.	MATHESON BLVD.	NORTH LIMIT OF CREEKBANK	0.30	2	4	0.60		0.51	0.05	0.06		0.14		0.02				0.78	0.15		0.93	100%	0%		0.93	0.00	0.00	
NORTH SOUTH ARTERIAL RD.	NORTH LIMIT OF CREEKBANK	SOUTH OF 401	0.30	0	4	1.20	0.67		0.04	0.06		0.14		0.02				0.93	2.22		3.16	25%	75%		0.79	2.37	0.00	
NORTH SOUTH ARTERIAL RD.	SOUTH OF 401	BRITANNIA RD.	1.46	0	4	5.84												6.61	12.63	9.42	28.66	100%	0%		28.66	0.00	0.00	-N.S. Arterial Roadway Planning/Feasibility Study. Adjusted 2004 cost by construction index
SUBTOTAL			2.06			7.64	0.67	0.51	0.09	0.13	0.00	0.28	0.00	0.04	0.00	0.00	0.00	8.33	15.00	9.42	32.75				30.38	2.37	0.00	
MAVIS RD.	CPR CROSSING	CENTRAL PARKWAY	0.60	5	6	0.60		0.55	0.05	0.13	0.07	0.28		0.02		0.03		1.13	0.00		1.13	80%		20%	0.90	0.00	0.23	Resurfacing existing CTL
MAVIS RD.	CENTRAL PARKWAY	BURNHAMTHORPE RD.	0.70	4	6	1.40		1.28	0.12	0.15	0.08	0.32		0.05				2.00	0.00		2.00	80%		20%	1.60	0.00	0.40	
SUBTOTAL			1.30			2.00	0.00	1.83	0.17	0.28	0.15	0.60	0.00	0.07	0.00	0.03	0.00	3.13	0.00	0.00	3.13				2.50	0.00	0.63	
NINTH LINE	EGLINTON ROAD	BRITANNIA ROAD	3.09	2	4	6.18		5.21	0.44	0.66	0.36	1.42		0.22		0.15		8.46	0.00	0.55	9.01	90%		10%	8.11	0.00	0.90	Resurfacing existing CTL
NINTH LINE	BRITANNIA RD.	DERRY RD.	3.06	2	4	6.12		5.16	0.26	0.66		1.40		0.21		0.52		8.21	0.00	3.05	11.26	90%		10%	10.13	0.00	1.13	- culvert widenings; rolling terrain surcharge; requires retaining walls
NINTH LINE	DERRY RD.	HWY. 401	2.45	2	4	4.90	5.59		0.41	0.53		1.12		0.17		0.45	0.86	9.14	0.00	0.29	9.42	90%		10%	8.48	0.00	0.94	-Hwy 401 crossing (assumed length); relocate track signals+padding; 4-lane reconstruction
SUBTOTAL			8.60			17.20	5.59	10.37	1.11	1.85	0.36	3.94	0.00	0.60	0.00	1.12	0.86	25.81	0.00	3.88	29.69				26.72	0.00	2.97	
																					0.00							
ARTERIAL ROADS TOTAL			**31.18**			**65.28**	**6.26**	**47.54**	**2.18**	**6.37**	**1.26**	**13.59**	**2.43**	**1.56**	**0.00**	**5.23**	**0.86**	**93.88**	**23.31**	**31.34**	**149.517084**				**127.15**	**2.37**	**20.00**	

MAJOR ROADWAY SECTIONS NAME	FROM	TO	IMP. LTH. (KM)	EX. LN.	FUT. LN.	ADDIT LANE KM.	ROAD CONST COSTS	ROAD WIDEN. COSTS	SW COSTS	ILLUM. COSTS	UTILITY COSTS	TRAFFIC SIGNAL COSTS	NEW ACSTCL. WALLS	LAND-SCAPING	HOV LANES	SPECIAL PROJ	CNTRE TURN LANE	SUBTOT. ROAD COSTS	PRPTY COSTS	STRUC. COSTS	TOTAL COSTS	GROWTH % DC	GROWTH % DEV.	NON GRTH	GROWTH COSTS DC	GROWTH COSTS DEV	NON GRTH COST	SPECIAL PROJECTS / COMMENTS
MAJOR COLLECTOR ROAD SYSTEM																												
ARGENTIA ROAD	TENTH LINE	NINTH LINE	1.40	0	4	5.60	3.11		0.20	0.30		0.64		0.10				4.35	0.64		4.99	25%	75%		1.25	3.75	0.00	
BELGRAVE DRIVE	CANTAY	MAVIS RAMP EXT.	0.60	2	4	1.20		1.01	0.10	0.13		0.28		0.04				1.56	1.04		2.60	90%		10%	2.34	0.00	0.26	
CENTREVIEW DRIVE	DUKE OF YORK	RATHBURN ROAD	0.80	4	5	0.80		0.73		0.17		0.37						1.27	0.00		1.27	80%		20%	1.02	0.00	0.25	
CENTREVIEW DRIVE LINK	CENTREVIEW DRIVE	HWY 403	0.50	0	1	0.50												6.51	1.24	6.51	14.26	100%			14.26	0.00	0.00	2004DC City of Mississauga estimate-2 Structures. Increased by construction index
CONFEDERATION PKWY. RAMP	CONFEDERATION PARKWAY	NORTH SERVICE ROAD	0.25	0	1	0.25	0.35			0.05		0.11		0.02				0.53	0.62		1.15	100%			1.15	0.00	0.00	
CREDITVIEW RD.	BANCROFT DR	ARGENTIA RD.	1.40	2	4	2.80		2.36	0.24	0.30	0.16	0.64	0.56	0.10				4.36	0.00	4.75	9.11	90%		10%	8.20	0.00	0.91	
CREDITVIEW RD.	ARGENTIA RD.	OLD CREDITVIEW	0.80	2	4	1.60		1.35	0.13	0.17	0.09	0.37		0.06				2.17	0.00	4.25	6.43	90%		10%	5.78	0.00	0.64	
DREW RD.	TOMKEN RD.	DIXIE RD.	1.50	0	4	6.00	3.33		0.21	0.32		0.69		0.11				4.66	0.00	4.10	8.76	100%	0%		8.76	0.00	0.00	-Etob Creek Str (assumed length)
DREW RD.	TORBRAM RD.	660M EASTERLY	0.66	2	4	1.32		1.11	0.11	0.14	0.08	0.30		0.05				1.79	0.00		1.79	100%	0%		1.79	0.00	0.00	
DREW RD.	660M EASTERLY	530M WEST OF AIRPORT RD.	0.40	0	4	1.60												0.00	0.00	1.35	1.35	100%			1.35			Only tunnel structure costs
DUKE OF YORK BLVD.	RATHBURN RD.	N. OF HWY 403	0.73	0	4	2.92	1.62			0.16		0.33		0.05		0.56		2.73	3.61	6.55	12.89	100%			12.89	0.00	0.00	Bridge over Hwy 410 ramps
DUKE OF YORK BLVD. RAMP	DUKE OF YORK BLVD.	NORTH SERVICE ROAD	0.25	0	1	0.25	0.35			0.05		0.11		0.02				0.53	0.62		1.15	100%			1.15	0.00	0.00	
EDWARDS BLVD	N. TOPFLIGHT DRIVE	HURONTARIO/HWY 407	0.50	0	2	1.00	0.84		0.07	0.11		0.23		0.04				1.28	2.47		3.75	100%			3.75	0.00	0.00	
HURONTARIO RAMP TERMINAL	HWY 401	BRITANNIA ROAD	0.90	0	2	1.80				0.19		0.41		0.06		0.05		4.75	2.47	3.50	10.72	100%	0%		10.72	0.00	0.00	City estimate for roadworks, retaining walls and structures. TPS
HWY 401 EB RAMP EXT.	MAVIS RD.	BELGRAVE RD.	0.23	0	2	0.46	0.38		0.03	0.05		0.11		0.02		0.15		0.74	1.14	1.37	3.24	100%			3.24	0.00	0.00	Special Project-Ramp Realign. Structure to connect to Belgrade Dr.
HWY 403 NORTH SERVICE ROAD	MAVIS ROAD	HURONTARIO STREET	2.04	0	2	4.08	3.41			0.44		0.94						4.78	11.09	3.27	19.14	100%			19.14	0.00	0.00	Bridge over Cooksville Creek and grade separation at Mavis ramp.
HWY 403 WB OFF RAMP	HWY 403	NORTH SERVICE ROAD	2.00	0	2	4.00												4.00	5.44	3.00	12.44	100%			12.44	0.00	0.00	Ramp connection from Hwy 403 to NSR (1.0 km) & ex. ramp realignment (0.5+0.5 km)
HWY 401 WB OFF RAMP	HWY 401	ENTERPRISE DR.	1.30	0	2	2.60	2.17			0.28		0.60		0.09		0.38		3.51	3.31		6.82	100%			6.82	0.00	0.00	Special Poject-Extra cost for traffic signage
MADILL DRIVE EXT.	KATESON DRIVE	HURONTARIO STREET	0.30	0	3	0.90						0.14		0.02				1.16	0.00	2.00	3.16	100%			3.16	0.00	0.00	City estimate for roadworks, electrical and structure.
DERRYCREST DR.	DERRY RD. W.	HURONTARIO ST. N	0.50	0	4	2.00	1.11		0.07	0.11		0.23						1.52	0.00		1.52	100%			1.52	0.00	0.00	
McLAUGHLIN ROAD	BRISTOL RD.	BRITANNIA RD.	1.52	2	4	3.04		2.56	0.26	0.33	0.18	0.70		0.11		0.13		4.26	1.03		5.29	90%		10%	4.76	0.00	0.53	- retaining walls, Resurfacing existing CTL
SHERIDAN PARK DRIVE	WEST LEG SPEAKMAN	EAST LEG SPEAKMAN	1.00	0	2	2.00	1.67		0.14	0.22		0.46		0.07				2.56	0.00		2.56	100%			2.56	0.00	0.00	
TENTH LINE	BRITANNIA RD.	DERRY RD.	3.06	2	4	6.12		5.16	0.51	0.66	0.36	1.40	1.30	0.21				9.61	0.00		9.61	90%		10%	8.65	0.00	0.96	
TENTH LINE	DERRY RD. W.	RAILWAY TRACKS	1.30	2	4	2.60		2.19	0.22	0.28	0.15	0.60		0.09		0.52		4.04	0.00		4.04	90%		10%	3.64	0.00	0.40	Special Project-Railway Crossing
TENTH LINE	RAILWAY TRACKS	ARGENTIA RD.	0.30	2	4	0.60		0.51	0.05	0.06	0.04	0.14		0.02				0.81	0.00		0.81	90%		10%	0.73	0.00	0.08	
WHITTLE RD	BRITANNIA RD.	MATHESON BLVD.	1.10	2	4	2.20		1.85	0.16	0.24	0.13	0.50		0.08				2.96	0.00		2.96	90%		10%	2.66	0.00	0.30	
																					0.00							
MAJOR COLECTOR ROAD TOTAL			**25.34**			**58.24**	**18.34**	**18.84**	**2.50**	**4.76**	**1.19**	**10.29**	**1.86**	**1.34**	**0.00**	**1.79**	**0.00**	**76.46**	**34.70**	**40.64**	**151.80367**				**143.72**	**3.75**	**4.34**	
ALL ROADS TOTAL			**56.52**			**123.52**	**24.60**	**66.38**	**4.68**	**11.13**	**2.44**	**23.88**	**4.29**	**2.90**	**0.00**	**7.01**	**0.86**	**170.34**	**58.02**	**71.98**	**301.3208**				**270.87**	**6.11**	**24.34**	

RAILWAY GRADE SEPARATIONS (5)																	38.000			46.0000				38.00	8.00		
EA STUDIES (1.5% OF ROADS AND RAIL GRADE SEPARATIONS)																				4.6620	100%			4.66			
DC, OP and TMP																				2.4000	100%			2.40			
TOTAL STAND ALONE SIGNAL, INTERSECTION IMPROVEMENT, TRANSIT AND PAVEMENT MARKING COSTS																				45.3020	100%			45.30			
STAND ALONE SIDEWALK COSTS									21.78								21.782			21.7816	100%			21.78			
BICYCLE FACILITIES COST (NOT INCLUDED)																				86.7000	100%			86.70			
STAND ALONE NOISE WALLS																	1.499			1.4990	100%			1.50			
ADDITIONAL COST TOTAL									**21.78**								**61.281**			**208.34**				**200.34**	**8.00**		

GRAND TOTAL							**24.60**	**66.38**	**26.47**	**11.13**	**2.44**	**23.88**	**4.29**	**2.90**	**0.00**	**7.01**	**0.86**	**231.62**		**71.98**	**509.6654**				**471.21**	**14.11**	**24.34**	

Note: Figures have been rounded

Table D-1
CITY OF MISSISSAUGA

2009 DEVELOPMENT CHARGES STUDY UPDATE

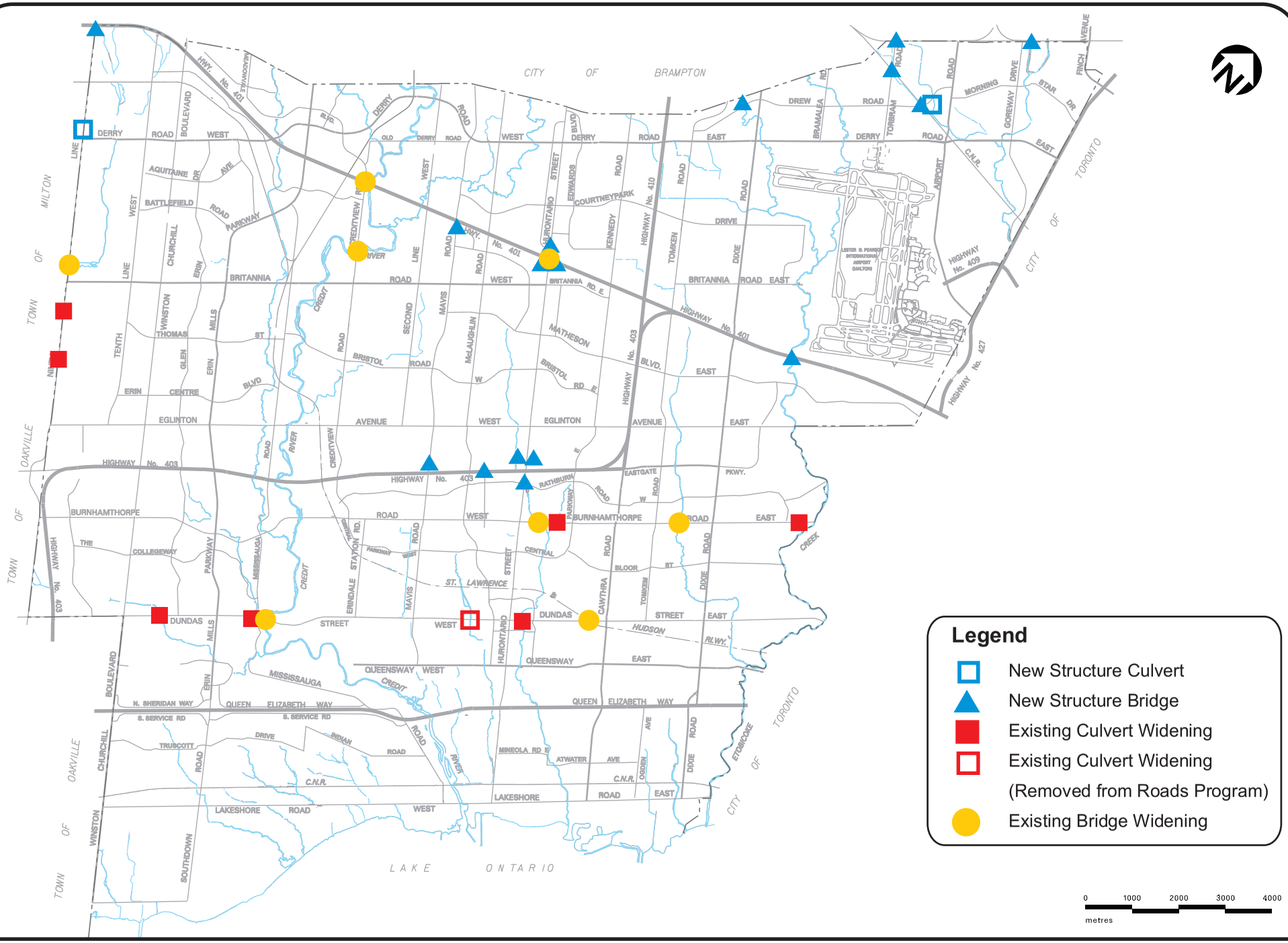
ROAD IMPROVEMENT PROGRAM COSTS ($000,000's) - DRAFT

ROAD SECTIONS REMOVED FROM PROGRAM

MAJOR ROADWAY SECTIONS NAME	FROM	TO	IMP. LTH. (KM)	EX. LN.	FUT. LN.	ADDIT LANE KM.	ROAD CONST COSTS	ROAD WIDEN. COSTS	SW COSTS	ILLUM. COSTS	UTILITY COSTS	TRAFFIC SIGNAL COSTS	NEW ACSTCL. WALLS	LAND-SCAPING	HOV LANES	SPECIAL PROJ	CNTRE TURN LANE	SUBTOT. ROAD COSTS	PRPTY COSTS	STRUC. COSTS	TOTAL COSTS	GROWTH % DC	GROWTH % DEV.	NON GRTH	GROWTH COSTS DC	GROWTH COSTS DEV	NON GRTH COST	SPECIAL PROJECTS / COMMENTS
BURNHAMTHORPE RD.	LOYALIST DR.	GLEN ERIN DRIVE	1.51	4	6	3.02		2.77		0.32		0.69		0.11				3.89	0.00	2.90	6.79	80%		20%	5.43	0.00	1.36	
BURNHAMTHORPE RD.	GLEN ERIN DRIVE	SOUTH COMMON CT.	0.32	4	6	0.64		0.59	0.05	0.07		0.15		0.02		0.02		0.89	0.00	1.55	2.44	80%		20%	1.95	0.00	0.49	- pedestrian underpass widenings. Resurfacing existing CTL
BURNHAMTHORPE RD.	SOUTH COMMON CT.	ERIN MILLS PKWY.	0.40	4	6	0.80		0.73		0.09		0.18		0.03		0.17		1.20	0.00		1.20	80%		20%	0.96	0.00	0.24	-major hydro relocation. Reconstrcution raised median.
BURNHAMTHORPE RD.	ERIN MILLS PKWY.	C.P.R. XING	2.80	4	6	5.60		5.14		0.60		1.28	0.25	0.20		2.20		9.67	0.00	35.16	44.83	80%		20%	35.86	0.00	8.97	- structure:retaining walls;major hydro. Reconstrcution raised median. TPS & queue jump lanes
MAVIS RD.	COURTNEY PARK DR.	DERRY RD.	1.30	4	6	2.60		2.38	0.22	0.28	0.15	0.60		0.09		1.07		4.79	0.00		4.79	80%		20%	3.83	0.00	0.96	Reconstrcution raised median.
MAVIS RD.	DERRY RD.	N. CITY LIMIT	1.45	4	6	2.90		2.66	0.24	0.31	0.17	0.67		0.10		1.04		5.19	0.00		5.19	80%		20%	4.15	0.00	1.04	Reconstrcution raised median. TPS & queue jump lanes
WINSTON CHURCHILL BLVD.	DERRY RD.	BRITANNIA RD.	3.00	4	6	6.00		5.50		0.65	0.35	1.38		0.21		0.47		8.55	0.00		8.55	80%		20%	6.84	0.00	1.71	Reconstrcution raised median.
WINSTON CHURCHILL BLVD.	BRITANNIA RD.	ERIN CENTRE BLVD.	2.50	4	6	5.00		4.59	0.05	0.54	0.29	1.15		0.18		0.39		7.17	0.00		7.17	80%		20%	5.74	0.00	1.43	Reconstrcution raised median.
WINSTON CHURCHILL BLVD.	DUNDAS ST.	HWY. 403	3.20	4	6	6.40		5.87	0.54	0.69	0.37	1.47	0.53	0.22		0.50		10.18	0.07		10.25	80%		20%	8.20	0.00	2.05	Reconstrcution raised median.
BRITANNIA RD. E.	BURNSIDE Ct.	BRITANNIA TERMINAL	0.82	0	2	1.64	1.37		0.12	0.18	0.10	0.38						2.13	4.05	18.35	24.53	100%			24.53	0.00	0.00	Bridge over Hwy 410 ramps
MEADOWVALE BLVD.	MEADOWPINE	N.CITY LIMITS	0.70	2	4	1.40		1.18	0.12	0.15		0.32		0.05				1.82	0.00		1.82	90%		10%	1.64	0.00	0.18	
TENTH LINE	DUNCAIRN DRIVE	S. OF THOMAS STREET	0.70	2	4	1.40		1.18	0.12	0.15		0.32		0.05		0.18		2.00	0.00		2.00	90%		10%	1.80	0.00	0.20	-rolling terrain surcharge. Complete 4 lane reconstruction
TOTAL			**18.70**			**37.40**	**1.37**	**32.58**	**1.46**	**4.02**	**1.44**	**8.58**	**0.78**	**1.25**	**0.00**	**6.03**	**0.00**	**57.50**	**4.12**	**57.95**	**119.56**				**100.94**	**0.00**	**18.62**	

DATE OF LAST UPDATE: March 26, 2005

UNIT COSTS		UNITS	
NEW CONSTRUCTION - 1 LANE	1.393	$M/KM	CITY CONTRACT AVERAGE CONSTRUCTION COSTS 2004-2008
NEW CONSTRUCTION - 2 LANES	1.670	$M/KM	CITY CONTRACT AVERAGE CONSTRUCTION COSTS 2004-2008
NEW CONSTRUCTION - 4 LANES	2.223	$M/KM	CITY CONTRACT AVERAGE CONSTRUCTION COSTS 2004-2008
NEW CONSTRUCTION - 6 LANES	2.777	$M/KM	CITY CONTRACT AVERAGE CONSTRUCTION COSTS 2004-2008
ROAD WIDENING - 2 TO 4	1.686	$M/KM	CITY CONTRACT AVERAGE CONSTRUCTION COSTS 2004-2008
ROAD WIDENING - 4 TO 6	1.834	$M/KM	CITY CONTRACT AVERAGE CONSTRUCTION COSTS 2004-2008
ROAD WIDENING - 2 TO 6	2.492	$M/KM	CITY CONTRACT AVERAGE CONSTRUCTION COSTS 2004-2008
2 LANE RE-CONSTRUCTION	1.732	$M/KM	CITY CONTRACT AVERAGE CONSTRUCTION COSTS 2004-2008
4 LANE RE-CONSTRUCTION	2.281	$M/KM	CITY CONTRACT AVERAGE CONSTRUCTION COSTS 2004-2008
6 LANE RE-CONSTRUCTION	2.830	$M/KM	CITY CONTRACT AVERAGE CONSTRUCTION COSTS 2004-2008
ACOUSTICAL NOISE WALLS (PER SIDE)	0.585	$M/KM	- FROM 2004 DC INCREASED BY CONSTRUCTION INDEX TO REFLECT THE CURRENT MARKET VALUE
LANDSCAPING / TREE PLANTING			
- ROAD WIDENING	0.070	$M/KM	FROM 2004 DC INCREASED BY CONSTRUCTION INDEX TO REFLECT THE CURRENT MARKET VALUE
- NEW CONSTRUCTION	0.070	$M/KM	FROM 2004 DC INCREASED BY CONSTRUCTION INDEX TO REFLECT THE CURRENT MARKET VALUE
SIDEWALKS (PER SIDE)			
- ROAD WIDENING	0.084	$M/KM	INCLUDES REMOVAL AND PLACEMENT (CITY CONTRACT AVERAGE CONSTRUCTION COSTS 2004-2009)
- NEW CONSTRUCTION	0.071	$M/KM	INCLUDES PLACEMENT ONLY (CITY CONTRACT AVERAGE CONSTRUCTION COSTS 2004-2009)
UTILITY RELOCATIONS	0.117	$M/KM	INCREASED FROM 2004 DC BY CONSTRUCTION INDEX TO REFLECT THE CURRENT MARKET VALUE
ILLUMINATION			
- ARTERIALS	0.215	$M/KM	ILLUMINATION COST BASED ON DATA PROVIDED BY CITY OF MISSISSAUGA
- COLLECTORS	0.215	$M/KM	ILLUMINATION COST BASED ON DATA PROVIDED BY CITY OF MISSISSAUGA
TRAFFIC SIGNALS	0.459	$M/KM	CITY OF MISSISSAUGA SIGNAL AND INTERSECTION IMPROVEMENT COST
CENTRE TURN LANE (5m roadway)			
ROAD WIDENING	0.576	$M/KM	CALCULATED BASED ON A 5M WIDE CENTRE TURN LANE
NEW CONSTRUCTION	0.395	$M/KM	CALCULATED BASED ON A 5M WIDE CENTRE TURN LANE
SPECIAL PROJECTS			
1. MAJOR ROAD PROFILE CHANGES (SURCHARGE)			
- ROAD WIDENING	10%		-CONSTRUCTION COST FACTORS FROM RIMS PROGRAM
- NEW CONSTRUCTION	15%		-CONSTRUCTION COST FACTORS FROM RIMS PROGRAM
2. MAJOR HYDRO	0.266	$M/KM	INCREASED FROM 2004 DC BY CONSTRUCTION INDEX TO REFLECT THE CURRENT MARKET VALUE
3. MAJOR UTILITY / GAS	0.234	$M/KM	INCREASED FROM 2004 DC BY CONSTRUCTION INDEX TO REFLECT THE CURRENT MARKET VALUE
4. MEDIAN BOULEVARD	0.406	$M/KM	CALCULATED BASED ON A 5M WIDE LANDSCAPED MEDIAN
5. RAISED MEDIAN	0.155	$M/KM	CALCULATED BASED ON A 5M WIDE ASPHALT MEDIAN
6. RETAINING WALL	0.207	$M/KM	INCREASED FROM 2004 DC BY CONSTRUCTION INDEX TO REFLECT THE CURRENT MARKET VALUE
7. RESURFACING EXISTING CTL	0.050	$M/KM	BASED ON COST OF RESURFACING A 5M WIDE CTL
8. AT-GRADE CROSSING (2-4 LANE WIDENING)			
SIGNAL RELOCATION	0.300	PER LOCATION	BASED ON RECENT RAIL GRADE CROSSING IMPROVEMENTS ON COLERAINE DRIVE IN BOLTON
PADDING PER TRACK	0.150	PER TRACK	BASED ON RECENT RAIL GRADE CROSSING IMPROVEMENTS ON COLERAINE DRIVE IN BOLTON
9. TRANSIT PRIORITY SIGNALS	0.052	PER INTERSECTION	OLD UNIT PRICE - NOW $15,000 PER INTERSECTION
10. QUEUE JUMP LANES	0.817	PER INTERSECTION	OLD UNIT PRICE - NOW $527,000 PER INTERSECTION



MRC
A member of MMM GROUP

City of Mississauga
DEVELOPMENT CHARGES UPDATE 2009

REQUIRED STRUCTURE IMPROVEMENTS
FIGURE D-2

TABLE D-2

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

STRUCTURE COSTS

LOCATION	STRUCTURE TYPE	ROAD SECTION	BRIDGE NUMBER	TYPE	EXISTING [8] LANES	EXISTING DECK LENGTH	EXISTING TRAVELLED WIDTH	EXISTING TOTAL DECK WIDTH	YEAR 2031 LANES	YEAR 2031 DECK LENGTH	YEAR 2031 TRAVELLED WIDTH	YEAR 2031 ADDITIONAL WIDTH	YEAR 2031 TOTAL DECK WIDTH	YEAR 2031 ADDITIONAL DECK AREA	2009 IMPROVEMENT COST	ADJUSTED 2004 TO 2009	2004 IMPROVEMENT COST	COMMENTS
WIDENING OF EXISTING BRIDGE STRUCTURES																		
BURNHAMTHORPE ROAD																		
- COOKSVILLE CREEK	BRIDGE	21018	21005	O-WAT	4	8.8	17	23.8	6	8.8	25.5	8.5	32.3	75	$895,000 [3]	$325,534	$250,000 [3]	
- LITTLE ETOBICOKE CREEK (BRIDGE)	BRIDGE	20023	20001	O-WAT	4	13.4	18.5	28	6	13.4	27.0	8.5	36.5	114	$1,362,000 [3]	$463,561	$356,000 [3]	
															$2,257,000	$789,095	$606,000	
DUNDAS STREET																		
- OVER THE CREDIT RIVER - 0.12KM EAST OF MISSISSAUGA RD.	BRIDGE		17002	O-WAT	4	53	16.6	26	6	53	25.1	8.5	34.5	451	$4,041,000 [3]	N/A	N/A	
- OVER RAILWAY - 0.4KM WEST OF CAWTHRA	BRIDGE		14004	O-RR	4	57.7	15	21.3	6	57.7	23.5	8.5	29.8	490	$4,399,000 [3]	N/A	N/A	
															$8,440,000	$0	$0	
HURONTARIO STREET																		
-HWY 401 OVERPASS WIDENING FROM 6 TO 8 LANES	BRIDGE			O-HWY	6	46	22	27	8	46	30.5	8.5	35.5	391	$5,500,000 [5]	N/A	N/A	CITY'S ESTIMATE (2009)
NINTH LINE																		
- BRITANNIA ROAD TO DERRY ROAD	BRIDGE			O-WAT	2	40	11	22.5	4	40	19.5	8.5	31.0	340	$3,050,000 [3]	$65,107	$50,000	
CREDITVIEW ROAD																		
- BANCROFT TO N. OF HIGHWAY 401 (CREDIT RIVER)	BRIDGE	45113	45001	O-WAT	2	69.2	9.2	12.2	4	69.2	17.7	8.5	20.7	588	$4,749,000 [3]	$2,393,328	$1,838,000 [3]	
- BANCROFT TO N. HWY 401 (HWY 401 OVER PASS)	BRIDGE			O-HWY	2	62	7	9.5	4	62	15.5	8.5	18.0	527	$4,254,000 [3]	$3,076,950	$2,363,000 [3,2]	
															$9,003,000	$5,470,278	$4,201,000	
BRIDGE STRUCTURE WIDENING SUBTOTAL															$28,250,000	$6,324,480	$4,857,000	

LOCATION	STRUCTURE TYPE	ROAD SECTION	BRIDGE NUMBER	TYPE	EXISTING LANES	EXISTING SPAN	EXISTING	EXISTING LENGTH	YEAR 2031 LANES	YEAR 2031 SPAN	YEAR 2031	YEAR 2031 ADDITIONAL LENGTH	YEAR 2031 TOTAL LENGTH	YEAR 2031 ADDITIONAL DECK AREA	2009 IMPROVEMENT COST	ADJUSTED 2004 TO 2009	2004 IMPROVEMENT COST	COMMENTS
WIDENING OF EXISTING CULVERT STRUCTURES																		
BURNHAMTHORPE ROAD																		
- COOKSVILLE CREEK EAST (CULVERT)	CULVERT	21018	21006	O-WAT	4	3.6		29.9	6	3.6		8.5	38.4	31	$184,000 [4]	$62,503	$48,000 [4]	
- 0.1KM EAST OF PONYTRAIL (LITTLE ETOB.CREEK TRIB.)	CULVERT	19014	19002	O-WAT	4	4.1		28.7	6	4.1		8.5	37.2	35	$209,000 [4]	$70,315	$54,000 [4]	
															$393,000	$132,818	$102,000	
DUNDAS STREET																		
- 0.7 KM E. OF WINSTON CHURCHILL BLVD. (LOYALIST CREEK CULVERT)	CULVERT	18018	18000	O-WAT	4	6.4		175	6	6.4		8.5	183.5	54	$326,000 [4]	$221,363	$170,000 [3]	
- AT MISSISSAUA ROAD (SAWMILL CREEK)	CULVERT		17003	O-WAT	4	6		78.5	6	6		8.5	87.0	51	$306,000 [4]	N/A	N/A	
- OVER COOKSVILLE CREEK - 0.25KM EAST OF HURONTARIO	CULVERT		14003	O-WAT	4	12		95	6	12		4.3	99.3	51	$306,000 [4]	N/A	N/A	
- 0.45KM WEST OF CONFEDERATION PKWY. (OVER MARY FIX CREEK)	CULVERT		15001	O-WAT	4	10		38.7	6	10		8.5	47.2	85	$510,000 [4]	N/A	N/A	
															$1,448,000	$221,363	$170,000	
NINTH LINE																		
- 1.2 KM SOUTH OF BRITANNIA ROAD	CULVERT	57003	57000	O-WAT	2	5.4		45.4	4	5.4		8.5	53.9	46	$275,000 [4]	$173,184	$133,000 [3]	
- 0.6 KM K SOUTH OF BRITANNIA ROAD	CULVERT	57003	57001	O-WAT	2	5.3		45.3	4	5.3		8.5	53.8	45	$270,000 [4]	$173,184	$133,000 [3]	
															$545,000	$346,368	$266,000	
CULVERT STRUCTURE WIDENING SUBTOTAL															$2,386,000	$700,550	$538,000	

TABLE D-2

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

STRUCTURE COSTS

LOCATION	STRUCTURE TYPE	ROAD SECTION	BRIDGE NUMBER	TYPE	EXISTING				YEAR 2031						2009 IMPROVEMENT COST	ADJUSTED 2004 TO 2009	2004 IMPROVEMENT COST	COMMENTS
					LANES	DECK LENGTH	TRAVELLED WIDTH	TOTAL DECK WIDTH	LANES	DECK LENGTH	TRAVELLED WIDTH	ADDITIONAL WIDTH	TOTAL DECK WIDTH	ADDITIONAL DECK AREA				
NEW BRIDGE CONSTRUCTION																		
NORTH SOUTH ARTERIAL ROAD																		
- STRUCTURE OVER 401	BRIDGE			O-HWY	0	0		0	4	115	15	22.50	22.50	2588	$9,419,000 [3]	$11,719,234	$9,000,000 [7]	
CENTREVIEW DRIVE LINK TO HWY 403																		
- CREEK AND UNDERPASS	BRIDGE			O-RD	0	0		0	1	60	3.75	5.25	5.25	315	$6,510,685 [3]	$6,510,685	$5,000,000 [5]	INCREASED 2004 DC ESTIMATE BY CONSTRUCTION INDEX
DREW ROAD																		
- TOMKEN RD TO DIXIE RD (ETOBICOKE CREEK)	BRIDGE			O-WAT	0	0		0	4	50	15	22.50	22.50	1125	$4,095,000 [3,2]	$2,563,908	$1,969,000 [3,2]	ASSUMED SPAN
DUKE OF YORK																		
- RATHBURN ROAD TO NORTH OF HWY 403	BRIDGE			O-HWY	0	0		0	4	80	15	22.50	22.50	1800	$6,552,000 [3]	$5,950,766	$4,570,000 [5]	
HURONTARIO RAMP TERMINAL																		
- HIGHWAY 401WB OFF-RAMP OVER HURONTARIO	BRIDGE			O-RD	0	0		0	2	26	7.5	15.00	15.00	390	$2,200,000 [5]	N/A	N/A	CITY'S ESTIMATE (2009)
- HIGHWAY 401WB OFF-RAMP OVER HWY 401 ON-RAMP	BRIDGE			O-RD	0	0		0	2	20	7.5	15.00	15.00	300	$1,300,000 [5]	N/A	N/A	CITY'S ESTIMATE (2009)
															$3,500,000			
HWY 401 RAMP EXTENSION																		
- MAVIS ROAD TO BELGRADE DRIVE	BRIDGE			O-RD	0	0		0	2	25	7.5	15.00	15.00	375	$1,365,000 [3]	$898,475	$690,000 [5]	
HWY 403 NORTH SERVICE ROAD																		
- MAVIS ROAD TO HURONTARIO STREET (COOKSVILLE CREEK)	BRIDGE			O-WAT	0	0		0	2	16	7.5	15.00	15.00	240	$874,000 [3]	$898,475	$690,000 [5]	
- GRADE SEPARATION AT MAVIS RAMPS	BRIDGE			U-HWY	0	0		0	2	20	7.5	15.00	15.00	300	$2,392,000 [3]	$2,523,542	$1,938,000 [3]	$1.3M FOR EARTHWORK AND REALIGNMENT OF EX. RAMP.
															$3,266,000		$2,628,000	
HWY 403 WB OFF RAMP																		
- FROM HWY 403 TO NORTH SERVICE ROAD	BRIDGE			U-HWY	0	0		0	2	55	7.5	15.00	15.00	825	$3,003,000 [3]	$3,356,909	$2,578,000 [3]	
MADILL DRIVE EXTENSION																		
- KATESON DRIVE TO HURONTARIO STREET	BRIDGE			U-HWY	0	0		0	3	20	11.25	18.75	18.75	375	$2,000,000 [5]	$3,906,411	$3,000,000 [5]	CITY'S ESTIMATE (2009)
NEW BRIDGE CONSTRUCTION SUBTOTAL															$39,710,685	$34,906,388	$29,435,000	

LOCATION	STRUCTURE TYPE	ROAD SECTION	BRIDGE NUMBER	TYPE	EXISTING				YEAR 2031						2009 IMPROVEMENT COST	ADJUSTED 2004 TO 2009	2004 IMPROVEMENT COST	COMMENTS
					LANES	SPAN		LENGTH	LANES	SPAN		ADDITIONAL LENGTH	TOTAL LENGTH	ADDITIONAL DECK AREA				
NEW CULVERT CONSTRUCTION																		
NINTH LINE																		
-IMMEDIATELY NORTH OF DERRY ROAD (EXISTING STEEL PIPE)	CULVERT			U-RD	0	0		0		3		16.0	16.0	48	$288,000 [4]	N/A	N/A	
DREW ROAD																		
- TORBRAM RD. TO AIRPORT RD. (TUNNEL IMMEDIATELY EAST OF RAIL GRADE SEPARATION)	CULVERT			U-RD	0	0		0		15		15.00	15.00	225	$1,350,000 [4]	N/A	N/A	
NEW CULVERT CONSTRUCTION SUBTOTAL															$1,638,000	N/A	N/A	
TOTAL															$71,984,685	$41,931,418	$34,830,000	

TABLE D-2

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

STRUCTURE COSTS

LOCATION	STRUCTURE TYPE	ROAD SECTION	BRIDGE NUMBER	TYPE	EXISTING [8] LANES	EXISTING DECK LENGTH	EXISTING TRAVELLED WIDTH	EXISTING TOTAL DECK WIDTH	YEAR 2031 LANES	YEAR 2031 DECK LENGTH	YEAR 2031 TRAVELLED WIDTH	YEAR 2031 ADDITIONAL WIDTH	YEAR 2031 TOTAL DECK WIDTH	YEAR 2031 ADDITIONAL DECK AREA	2009 IMPROVEMENT COST	ADJUSTED 2004 TO 2009	2004 IMPROVEMENT COST	COMMENTS
BRIDGES REMOVED FROM ROADS PROGRAM																		
BURNHAMTHORPE ROAD																		
- 0.15KM EAST OF TAMARCK GATE	BRIDGE		25006	O-PED	4	28.5	14.5	20	6	28.5	23.0	8.5	28.5	242	$2,897,000 [3]	N/A	N/A	
- 0.1KM W. OF SOUTH COMMON CT.	BRIDGE	25014	25004	O-PED	4	15.2	19	23.3	6	15.2	27.5	8.5	31.8	129	$1,545,000 [3]	$526,063	$404,000 [3]	
- 0.40 KM WEST OF CREDIT WOODLANDS (CREDIT RIVER)	BRIDGE	24031	24001	O-WAT	4	393	15.8	20	6	393	24.3	8.5	28.5	3341	$23,971,000 [3]	$13,452,378	$10,331,000 [6]	COMPLICATED PROJECT (INCLUDES ADDITIONAL 20%)
- 0.15 KM EAST OF MISSISSAUGA ROAD (MULLET CREEK)	BRIDGE	24031	24002	O-WAT	4	137	15.8	20	6	137	24.3	8.5	28.5	1165	$8,356,000 [3]	$5,177,297	$3,976,000 [6]	COMPLICATED PROJECT (INCLUDES ADDITIONAL 20%)
- 0.20 KM WEST OF SAW MILL VALLEY DR.	BRIDGE	24019	24004-1-2	O-WAT	2	23.2	7.5	11.5	3	23.2	11.8	4.3	15.8	99	$1,415,000 [3]	$377,620	$290,000 [3]	COMPLICATED PROJECT (INCLUDES ADDITIONAL 20%)
- 0.20 KM WEST OF SAW MILL VALLEY DR.	BRIDGE	24019	24004-2-2	O-WAT	2	23.2	7.5	11.5	3	23.2	11.8	4.3	15.8	99	$1,415,000 [3]	$377,620	$290,000 [3]	COMPLICATED PROJECT (INCLUDES ADDITIONAL 20%)
BRITANNIA ROAD																		
- BURNSIDE CRT. TO BRITANNIA ROAD WEST TERMINAL	BRIDGE			U-HWY	0	0		0	2	280	7.5	15.00	15.00	4200	$18,346,000 [3]	$8,776,404	$6,740,000 [5]	COMPLICATED PROJECT (INCLUDES ADDITIONAL 20%)

NOTES 1. DECK WIDTH CAN ACCOMMODATE 5 LANES.
2. ASSUMED TOTAL BRIDGE SPAN
3. CONSTRUCTION COSTS ARE BASED ON A UNIT COST OF $4,600 - $9,200 PER SQM FOR ROAD WIDENING AND $2,800 PER SQM NEW CONSTRUCTION PLUS 15% CONTINGENCY AND 15% ENGINEERING
4. CULVERT CONSTRUCTION COSTS ARE BASED ON A UNIT COST OF $6,000 PER SQM PLUS 15% CONTINGENCY AND 15% ENGINEERING
5. COST ARE BASED ON CITY OF MISSISSAUGA COST ESTIMATE
6. DOES NOT INCLUDE BICYCLE LANE WIDENING (COSTED SEPARATELY)
7. BASED ON NORTH SOUTH ROADWAY PLANNING/FEASIBILTY STUDY-ALT. S2N2 ADJUSTED BY 25% TO REFLECT INCREASE IN COST FROM 1999 TO 2004
8. ALL EXISTING WIDTHS AND LENGTHS WERE MEASURED OFF AERIAL PHOTOGRAPHY AND COMPARED TO THE CITY INVENTORY OF ALL BRIDGES AND CULVERTS

UNIT COSTS		**BASE**	**CONT.**	**ENG.**	**TOTAL**	**COMPLEX PROJECTS (+20%)**
WIDENING EXISTING BRIDGE						
-Small Bridges (<150m^2)		**$9,200**	**$1,380**	**$1,380**	**$11,960**	**$14,352**
-Medium Bridges (150m^2-500m^2)		**$6,900**	**$1,035**	**$1,035**	**$8,970**	**$10,764**
-Medium Bridges (500m^2-900m^2)		**$6,210**	**$932**	**$932**	**$8,073**	**$9,688**
-Large Structures (>900m^2)		**$4,600**	**$690**	**$690**	**$5,980**	**$7,176**
NEW CONSTRUCTION		**$2,800**	**$420**	**$420**	**$3,640**	**$4,368**
CULVERTS		**$4,615**	**$692**	**$692**	**$6,000**	**$7,199**

NOTE: UNIT COSTS INCLUDE BRIDGE DECK, ABUTMENTS, PIERS AND TYPICAL GRADING OF SLOPES

APPENDIX E

GROWTH / NON-GROWTH COST SHARING ASSUMPTIONS

Table E-1

CITY OF MISSISSAUGA
2009 DEVELOPMENT CHARGES STUDY UPDATE

PROPOSED COST SHARING SCENARIOS
BETWEEN CITY AND CITY-WIDE DC
(Method of Assessing Benefit to Existing)

Scenario	Maintain Existing Infrastructure (City Responsibility)		Upgrade Existing Road and Add Capacity (Shared City and DC)		Cost Sharing	
	Improvement [1]	Cost	Improvement	Cost	Non-Growth	Growth
Existing 2 Lane Rural Road	Resurface 2 Lane Road	$110,000	Reconstruct 2 Lane Urban Road	$1,670,000	7%	93%
Existing 2 Lane Rural Road	Resurface 2 Lane Road	$110,000	Reconstruct 4 Lane Urban Road	$2,281,000	5%	95%
Existing 2 Lane Rural Road	Resurface 2 Lane Road	$110,000	Resurface and Widen from 2 to 4 Lanes	$1,686,000	7%	93%
Existing 2 Lane Urban Road	Resurface 2 Lane Road	$190,000	Resurface and Widen from 2 to 4 Lanes	$1,686,000	11%	89%
Existing 2 Lane Urban Road	Resurface 2 Lane Road	$190,000	Resurface and Widen from 2 to 6 Lanes	$2,492,000	8%	92%
Existing 4 Lane Urban Road	Resurface 4 Lane Road	$305,000	Resurface and Widen from 4 to 6 Lanes	$1,834,000	17%	83%

[1] - Assumes resurfacing of entire road surface and 50% curb and gutter replacement

DATE: 9-May-09

RECOMMEDED GROWTH NON-GROWTH COST SHARING

Type of Road Improvement	Non-Growth	Growth (DC)
2 to 4 Lane Widennings	10%	90%
2 to 6 Lane Widennings	10%	90%
4 to 6 lane Widennings	15%	85%

Table E-2

CITY OF MISSISSAUGA

2009 DEVELOPMENT CHARGES STUDY UPDATE

DEVELOPER / DC COST SHARING ON MAJOR COLLECTOR ROADS

Costing Items	2 Lane Urban Construction (7.5m)	4 Lane Urban Construction (14.5m)	Estimated Cost of a 5th Lane
Road Construction Cost	1,670,000	2,223,000	276,500
Sidewalks	142,000	142,000	
Illumination	186,000	186,000	
Total Cost	1,998,000	2,551,000	276,500

Portion of Total Road Cost That is Attributable to the Developer

	Curb to Curb only	Road, SW, and Illum.
2 Lane Collector	100%	100%
4 Lane Collector	75%	78%
5 Lane Collector	67%	71%

RECOMMENDED COST SHARING

Costing Items	Developer	DC
4 Lane Collectors	75%	25%
5 Lane Collectors	75%	25%

DATE: 9-May-09