Final Report Prepared by Hemson for the City of Markham

2022 Development Charges Study

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Executive Summary

Hemson Consulting Ltd. was retained by the City of Markham to complete a Development Charges (DC) Background Study. The following summarizes the findings of the 2022 DC Background Study.

A. City of Markham Development Charges Regime

The City of Markham currently levies three types of development charges for the recovery of development-related capital costs:

- City-Wide Soft (CWS) Service Development Charges for the recovery of development-related costs for the provision of general government, library, fire, indoor recreation, parks development and facilities, public works (building, equipment and fleet), waste management, and parking services.
- City-Wide Hard (CWH) Service Development Charges for the recovery of development-related costs for the provision of major roads and related services, including structures, sidewalks, streetlights and special traffic management and design features, as well as storm water management projects (erosion control projects), special projects (streetscaping), and related studies.
- Area-Specific Development Charges (ASDC) for the recovery of development-related costs for the provision of some roads, intersection improvements, streetlighting, watermains, sanitary sewers, storm water management facilities (storm water ponds), and related studies.

The first two types of development charges, the CWS and CWH, are levied on a uniform basis against all development in the City. The ASDCs are levied on a planning area-specific basis. This review of the DC Background Study will update all of the related CWS, CWH and ASDC by-laws.



B. Study Consistent with Development Charges Legislation

This study calculates development charges for the City of Markham in compliance with the provisions of the *Development Charges Act, 1997 (DCA)* and its associated regulation *(Ontario Regulation 82/98).*

The City needs to continue implementing development charges to fund capital projects related to growth throughout Markham so that development pays for its capital requirements to the extent allowed by the *DCA* and so that new services required by growth are provided in a fiscally responsible manner.

The *DCA* and *O. Reg. 82/98* require that a development charges background study be prepared in which development charges are determined with reference to:

- a forecast of the amount, type and location of housing units, population and non-residential development anticipated in the City;
- a review of future capital projects, including an analysis of gross expenditures, funding sources, and net expenditures incurred or to be incurred by the City to provide for the expected development, including the determination of the growth and non-growth-related components of the capital projects; and
- an examination of the long-term capital and operating costs for the capital infrastructure required for each service to which the development charges by-laws would relate.

This report identifies the growth-related net capital costs which are attributable to development that is forecast to occur in the City. These costs are apportioned to types of development (residential and non-residential) in a manner that reflects the increase in the need for each service attributable to each type of development.



C. All Services with Development-Related Costs are Included in the Analysis

The following City services have been included in the development charge analysis:

- General Government
- Library
- Fire Services
- Indoor Recreation
- Parks Development and Facilities
- Public Works
- Waste Diversion
- City-Wide Hard (including roads and associated structures, sidewalks, streetlights, streetscaping, intersections, studies, storm water management, water mains, and related studies)
- Area-Specific (including illumination, intersections, roads, storm water management, structures, sanitary sewers, water mains, and related studies)

It is noted that parking is no longer an eligible service for DC funding and therefore is not included in this Background Study.

D. Two Approaches are Used to Calculate Development Charges

- A City-wide average cost approach is used to calculate development charges for general government, library, fire services, indoor recreation, parks development and facilities, public works, waste diversion and City-wide hard services. This approach results in uniform charges throughout the City.
- In addition, area-specific development charges are calculated for illumination, intersections, roads, storm water management, structures,



sanitary sewers, water mains, and related studies. The area-specific approach more closely aligns costs and benefits for services where benefits are more localized and can be identified.

E. The City of Markham is Anticipated to Grow by 90,070 People and 55,590 Employees Over Ten Years

 The table below provides a summary of the anticipated residential and non-residential growth over the ten-year period from mid-2022 to mid-2031. The development forecast is further discussed in Appendix A.



	2021	Soft Services Plannir Period 2022 - 2031		
	Estimate	Growth	Total at 2031	
Residential Development Forecast				
Total Occupied Dwellings <i>Singles & Semis</i> <i>Rows & Other Multiples</i> <i>Apartments</i>	114,233	32,673 <i>10,545</i> <i>8,853</i> <i>13,274</i>	146,905	
Total Population Census <i>Population In New Dwellings</i>	354,589	90,071 <i>90,381</i>	444,660	
Non-Residential Development Forecast				
Place of Work Employment <i>Mixed-Use</i> <i>Retail</i> <i>Institutional</i> <i>Industrial</i> <i>Office</i> <i>Rural</i> Non-Residential Building Space (sq.m.)	160,210	55,590 825 <i>15,679 10,210 8,870 19,990 14</i> 2,550,244	215,800	
<i>Mixed-Use Retail Institutional Industrial Office Rural</i>		33,009 <i>627,176</i> <i>680,685</i> <i>709,619</i> <i>499,755</i> -		



F. Increase in Need for Service Based on Anticipated Development

- In accordance with the *DCA*, development charges have been calculated at a level no higher than the average service level provided in the City over the ten-year period immediately preceding the preparation of the background study, on a service by service basis.
- The increase in need for service required to service the anticipated development is based on the net population or net population and employment growth in the City. This is used to calculate the ten-year average historical service levels and the maximum permissible DC funding envelopes.
- This approach reflects the manner in which the City develops complete communities and plans for infrastructure and facilities to meet the servicing needs of development.

G. The Study Includes a \$965.50 Million Growth-Related Capital Program for Soft Services and \$1.82 Billion Growth-Related Capital Program for Hard Services

- The 2022 2031 growth-related capital program for soft services including General Government, Library, Fire, Indoor Recreation, Parks Development & Facilities, Public Works, and Waste Diversion totals \$965.50 million.
- The City-wide hard services net capital program totals an additional \$1.82 billion. This amount is estimated to provide for developmentrelated infrastructure required to 2031.
- The *DCA* requires that the gross capital costs be reduced by grants, subsidies, and recoveries from other governments; as well as capital



replacements or other benefits provided to the existing community, existing reserve fund balances, and amounts that exceed historical service levels when calculating development charges.

- After these deductions the net growth-related hard services capital program is reduced to \$1.21 billion.
- Given no grants, subsidies, or replacement shares have been identified for any of projects included in the soft services capital program, the full amount of \$965.50 million has been carried forward to the development charges calculation.

H. Calculated Development Charges

 The following tables summarize the proposed residential and non-residential City-wide development charges.

	I				
Service	Singles & Semis	Townhouses & Multiples	Large Apartments	Small Apartments	Percentage of Charge
General Government	\$898	\$696	\$548	\$385	1.5%
Library	\$2,232	\$1,730	\$1,362	\$957	3.8%
Fire Services	\$1,232	\$955	\$752	\$528	2.1%
Indoor Recreation	\$13,611	\$10,552	\$8,304	\$5,834	23.4%
Park Development & Facilities	\$7,491	\$5,807	\$4,570	\$3,211	12.9%
Public Works	\$1,196	\$927	\$729	\$512	2.1%
Waste Diversion	\$300	\$233	\$183	\$129	0.5%
Subtotal City-Wide Soft	\$26,960	\$20,900	\$16,448	\$11,556	46.3%
City-Wide Hard	\$31,268	\$24,239	\$19,076	\$13,402	53.7%
Total City-Wide	\$58,228	\$45,139	\$35,524	\$24,958	100.0%
(1) Based on Persons Per Unit Of:	3.73	2.89	2.28	1.60	

Calculated Residential Charges for City-Wide Services



	Retail		Industrial/Offi	ce/Insitutional	Mixed-Use	
Service	Adjusted Charge per Square Metre	Percentage of Charge	Adjusted Charge per Square Metre	Percentage of Charge	Adjusted Charge per Square Metre	Percentage of Charge
General Government	\$6.52	2.7%	\$5.23	2.7%	\$3.03	2.6%
Library	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%
Fire Services	\$8.54	3.6%	\$6.85	3.6%	\$4.16	3.6%
Indoor Recreation	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%
Park Development & Facilities	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%
Public Works	\$8.28	3.5%	\$6.64	3.5%	\$4.04	3.5%
Waste Diversion	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%
Subtotal City-Wide Soft per Sq.M.	\$23.35	9.7%	\$18.72	9.7%	\$11.22	9.6%
City-Wide Hard	\$216.47	90.3%	\$173.68	90.3%	\$105.46	90.4%
Total City-Wide	\$239.82	100.0%	\$192.40	100.0%	\$116.68	100.0%

Calculated Non-Residential Charges for City-Wide Services

I. Area-Specific Charges

- Area-Specific Development Charges are proposed to provide for some roads, intersection improvements, streetlighting, watermains, sanitary sewers, storm water management facilities (storm water ponds), and related studies.
- The ASDCs calculated for the purposes of this background study are summarized below.



Area Name	Area	AS	DC Charge \$/ha
Yonge Steeles Corridor	1B	\$	1,467,253
Armadale	5	\$	8,857
Armadale NE	7	\$	15,489
PD 1-7	9	\$	736,670
Rodick/Miller Road Planning District	17	\$	662,823
Mount Joy	23	\$	173,322
Markham Centre - South Unionville - Helen Ave	42A.1	\$	176,576
Markham Centre	42B	\$	7,997
Markham Centre - Clegg	42B.2	\$	169,076
Markham Centre - Hotel	42B.4	\$	895,820
Markham Centre - South Hwy 7	42B.6	\$	1,236,921
Markham Centre - Sciberras	42B.8	\$	1,490,071
Markham Centre - East Precinct	42B.9	\$	236,433
Cathedral	46	\$	9,522
York Downs	47B	\$	8,210
404 North	49	\$	18,167
Future Urban Area	50A	\$	11,817
Future Urban Area - Employment Block	50A-1	\$	115,835
Future Urban Area - Robinson Glen	50A-2	\$	17,351
Future Urban Area - Berczy Glen Block	50A-3	\$	204,076
Future Urban Area - Angus Glen Block	50A-4	\$	70,310
Future Urban Area - Robinson Glen - South Block	50A-5	\$	48,240

J. A Portion of Development-Related Costs Require Funding from Non-Development Charge Sources

 The *Development Charges Act, 1997* requires that funding from other sources be applied against the development-related capital program. Additionally, any share of the capital program that is deemed replacement or benefiting to the existing population will be excluded



from the development charges calculation and will require funding from non-development charge sources.

- No non-development related shares have been identified in the City-wide soft services capital program, however, \$245.41 million of the City-wide soft services capital program is deemed to benefit development beyond the 2031 planning horizon and will require funding from non-DC sources in the interim.
- Non-development charge funding for replacement or benefit to existing shares of the capital forecast of the CWH program total \$33.18 million and will need to be financed through non-DC sources. An additional \$129.41 million in interim financing will be required to fund a portion of the development-related capital program that is deemed to benefit development beyond the 10-year planning period.

K. Consideration for Area Rated Services

 In accordance with the *DCA*, Council must give consideration to the use of area rating, also known as area-specific development charges, as part of the development charges background study. The City of Markham has historically used both City-wide and area-specific charges and this practice is anticipated to continue into the future.

L. Asset Management Plan

- A key function of the Asset Management Plan is to demonstrate that all assets proposed to be funded under the development charges by-law are financially sustainable over their full life cycle.
- By 2031, the City will need to fund an additional \$48.83 million per annum in order to properly fund the full life cycle costs of the new Citywide soft and City-wide hard assets supported under the 2022 Development Charges By-Law.



M. Modifications to the City's Development Charges By-law and Local Service Definitions are Proposed

 The City is proposing to modify the current development charges by-laws to reflect legislative changes that have occurred since the passage of the current DC By-laws and to account for any policy and definition changes. The proposed draft by-laws will be made available, under separate cover, a minimum of two weeks in advance of the statutory public meeting.



1. Introduction

This City of Markham Development Charges Background Study is presented as part of a process to lead to the approval of new development charge bylaws in compliance with the *Development Charges Act, 1997 (DCA)*.

The *DCA* and *Ontario Regulation 82/98 (O. Reg. 82/98)* require that a development charges background study be prepared in which development charges are determined with reference to:

- A forecast of the amount, type and location of housing units, population and non-residential development anticipated in the City;
- The average capital service levels provided in the City over the tenyear period immediately preceding the preparation of the background study;
- A review of capital works in progress and anticipated future capital projects, including an analysis of gross expenditures, funding sources, and net expenditures incurred or to be incurred by the City or its local boards to provide for the expected development, including the determination of the growth and non-growth-related components of the capital projects; and
- An examination of the long-term capital and operating costs for the capital infrastructure required for each service to which the development charges by-laws would relate.

This study presents the results of the review which determines the development-related net capital costs which are attributable to development that is forecast to occur in the community. These development-related net capital costs are then apportioned among various types of sectors (residential and non-residential) in a manner that reflects the increase in the need for each service attributable to each type of development. The



study arrives, therefore, at proposed development charges for various types of development.

The *DCA* provides for a period of public review and comment regarding the proposed development charges. Following completion of this process in accordance with the *DCA* and Council's review of this study and the comments it receives regarding this study or other information brought to its attention about the proposed charges, it is intended that Council will pass new development charges for the City.

The remainder of this study sets out the information and analysis upon which the proposed development charges are based.

Section II designates the services for which the development charges are proposed and the areas within the City to which the development charges will apply. It also briefly reviews the methodology that has been used in this background study.

Section III presents a summary of the forecast residential and nonresidential development which is expected to occur within the City over the 2022 – 2031 period.

Section IV summarizes the historical ten-year average capital service levels that have been attained in the City which form the basis for the development charges soft services calculations.

In Section V, the development-related capital forecast that has been developed by various City departments and boards is reviewed.

Section VI summarizes the calculation of applicable development charges and the resulting proposed development charges by class and type of development as well as by geographic area in the City.

Section VII provides an examination of the long-term capital and operating costs for each service included in the development charge calculation.



Section VIII presents an Asset Management Plan for the City, demonstrating financial sustainability of assets over the life cycle of the 2022 Development Charges By-law and satisfying the new requirements implicated by the amendment to the *Development Charges Act*.

Section IX provides a review of development charges administrative matters and the City's local service policies.



2. The Methodology Combines a City-Wide and Area-Specific Approach to Align Development-Related Costs and Benefits

Several key steps are required in calculating any development charge. However, specific circumstances arise in each municipality which must be reflected in the calculation. In this study, therefore, we have tailored our approach to the City of Markham's unique circumstances. The approach to the proposed development charges is focussed on providing a reasonable alignment of growth-related costs with the development that necessitates them. This study combines a City-wide approach for soft and certain hard services which the City provides and with an area-specific approach for certain hard services.

A. Consideration for Area Rates Services

In accordance with the *DCA*, Council must give consideration to the use of area rating, also known as area-specific development charges, as part of the development charges background study. The City of Markham has historically used both City-wide and area-specific charges and this practice is anticipated to continue into the future.

The rationale for the City-wide and area-specific development charges are discussed further in following sections.

B. Both City-Wide and Area-specific Development Charges are Proposed

The City provides a wide range of services to the community it serves and has an extensive inventory of facilities, land, infrastructure, vehicles and



equipment. The *DCA* provides municipalities with the flexibility to define services that will be included in the development charge by-laws, provided that the other provisions of the Act and associated regulations are met. The *DCA* also requires that the by-laws designate the areas within which the by-laws shall be imposed. The development charges may apply to all lands in the municipality or to other designated development areas as specified in the by-laws.

i. Services Based on a City-Wide Approach

For the majority of services that the City provides, a range of capital facilities, land, equipment and infrastructure is available throughout the City; arenas, community centres, pools, libraries, fire stations, arterial roads, watermains, parks and so on. As new development occurs, new facilities will need to be added so that service levels in newly developing areas are provided for at levels enjoyed in existing communities. A widely accepted method for sharing the development-related capital costs for such City services is to apportion them over all new growth anticipated in the City.

The following services are included in the City-wide development charge calculation:

- General Government;
- Library;
- Fire;
- Indoor Recreation;
- Park Development & Facilities;
- Public Works;
- Waste Diversion; and
- City-Wide Hard (including roads and associated structures, sidewalks, streetlights, streetscaping, intersections, studies, storm water management, water mains, and related studies).



These services form a reasonable basis on which to plan and administer the development charges. It is noted that the analysis of each of these services examines the individual capital facilities and equipment that make them up. For example, Indoor Recreation includes various indoor facilities such as community centres, pools, arenas; associated land requirements as allowed under the *DCA*.

The resulting development charge for these services would be imposed against all development anywhere in the City.

ii. Area-Specific Charges are Proposed

For some services that the City provides, the need for development-related capital additions to support anticipated development is more localized. For such services, where costs and benefits are more localized, an alternative technique — the area-specific approach — is employed.

The area-specific charges relate mainly to the provision of sanitary sewer collection trunks, roads and related improvements, storm water management works, trunk water mains, projects undertaken by credit agreements, and related studies. Charges for these services are called Area-Specific Development Charges (ASDC) and are consistent with the City's existing development charges for such works.

The area-specific approach for these services reflects the fact that the demand for, and benefit from, the projects provided by the City is much more localized than that for other City services. Area-specific charges result in a more accurate distribution of costs among developers than the city-wide approach. The geographic areas that are included coincide with the specific service area for each project.

The area-specific approach also facilitates front-end financing or credit agreements for the designated services if the City chooses to use these provisions of the *DCA*. As an alternative that is more commonly used in



Markham, the area-specific charges also facilitate the use of developer group agreements.

Map 1 illustrates the area-specific service areas that have been identified in the City. The areas recommended in this study are as follows:

- Area 1B Yonge Steeles Corridor
- Area 5 Armadale
- Area 7 Armadale NE
- Area 9 PD 1-7
- Area 17 Rodick/Miller Road Planning District
- Area 23 Mount Joy
- Area 42A.1 Markham Centre South Unionville Helen Ave
- Area 42B Markham Centre
- Area 42B-2 Markham Centre Clegg
- Area 42B-4 Markham Centre Hotel
- Area 42B-6 Markham Centre South Hwy 7
- Area 42B-8 Markham Centre Sciberras
- Area 42B-9 Markham Centre East Precinct
- Area 46 Cathedral
- Area 47B York Downs
- Area 49 404 North
- Area 50A Future Urban Area
- Area 50A-1 Future Urban Area Employment Block
- Area 50A-2 Future Urban Area Robinson Glen
- Area 50A-3 Future Urban Area Berczy Glen Block
- Area 50A-4 Future Urban Area Angus Glen Block

• Area 50A-5 – Future Urban Area - Robinson Glen - South Block For other areas, development plans are not sufficiently known to be able to provide appropriate servicing plans and development charges. Area-specific development charges for these areas may be prepared by the City in the future as development plans become more advanced. There are some other



areas in which the ASDC work will be completed by the developers in which a letter of agreement would be required by the City.

C. Key Steps in Determining Development Charges for Future Development-Related Projects

Several key steps are required in calculating development charges for future development-related projects. These are summarized in Figure 1 and discussed further in the following sections.



Development Forecast s.5(1)1 Anticipated amount, type and location of development Increase in Need for must be estimated Service s.2(1), s.5(1)2 Transit Requirements are Calculate 10-Year Increase in need may based on a forecast ten-Historical Service Level not exceed average year Service Level s 5.2 s.5(1)4 level of service (2) immediately preceding background study Consideration of Available **Excess Capacity** Increase in the need for s.5(1)5 Requires funding from service attributable to the non-DC sources (i.e. anticipated development property tax, user fees) must be estimated Identify Development-Identify Ineligible **Related Capital Costs** Services s.5(1)7 s.52(4) Grants/Other Benefit-to-Increase in Local Services Contributions Existing Service Level s.59 s.5(2) s.5(1)6 s.5(1)4 Other Requirements of DC Background DC Polices and Costs Eligible Study Rules for Recovery Long-term Capital and Rules for DCs payable Operating Impacts s.5(1)9 Non-Residential **Residential Sector** 5.10(1)(c) Sector (per m2 of (Unit Type) GFA) Restrictions on rules Consideration for Area Rating s.5(6) s.2(9)(10)(11), s.10(1)(c.1) Discounts, reductions, Asset exemptions Management Plan s.5(1)10 s.10(3)

Figure 1 - Key Steps in Calculating Development Charges



i. Development Forecast

The first step in the methodology requires a development forecast to be prepared for the ten-year study period, 2022 – 2031, for all services. The forecast of the future residential and non-residential development by location used in this study is based on growth anticipated to occur within York Region's 45 per cent intensification scenario used for the purposes of the Region's 2016 Development Charges Background Study. The forecast reflects 2031 targets, 2016 Census data as well as recent development activity.

For the residential portion of the forecast the new dwelling units, net population growth, and population growth in new units is estimated. Net population growth equals the population in new housing units reduced by the decline in the population in the existing base anticipated over the tenyear period and to build-out (due to reducing household sizes as the community ages). The net population change and growth in dwelling units is used in the calculation of the development charges funding envelopes. In calculating the per capita development charge, however, the population growth in new housing units is used.

The non-residential portion of the forecast estimates the gross floor area (GFA) of building space to be developed over the ten-year period, 2022 – 2031. The forecast provides estimates for five categories: retail, mixed-use, institutional, employment land, office and work at home. The forecast of GFA is based on the employment forecast for the City. Factors for floor space per worker by category are used to convert the employment forecast into gross floor areas for the purposes of the development charges study.

ii. Service Categories and Historical Service Levels

The *Development Charges Act provides* that the increase in the need for service attributable to anticipated development:



... must not include an increase that would result in the level of service exceeding the average level of that service provided in the municipality over the 10-year period immediately preceding the preparation of the background study...(s. 5. (1) 4.)

Historical ten-year average service levels thus form the basis for development charges. A detailed review of City's capital service levels for buildings, land, vehicles, and related infrastructure and facilities has been undertaken, and included in this study. This data and resulting ten-year historical service levels are used as a reference for the calculation to determine what portion of future capital projects that may be included in the development charge can be determined. The historical service levels used in this study have been calculated based on the period 2012 – 2021.

In this study, the approach used to calculate service levels and maximum funding envelopes is described as follows.

For those services with only a residential impact (Library, Indoor Recreation, Park Development & Facilities, and Waste Diversion), the service level measure of population has been utilized. For those services which levy both a residential and non-residential charge (General Government, Public Works, and Fire), the service level measure of population + employment has been utilized.

For "hard" services, such as water, wastewater, storm drainage and roads (and road-related works), historical service levels are less applicable and reference is made to the City's engineering standards as well as Provincial health and environmental requirements. The historical service level for roads and related infrastructure has been included as part of Appendix C.



iii. Development-Related Capital Forecast and Analysis of Net Capital Costs to be Included in the Development Charges

A development-related capital forecast has been prepared by the City's departments and boards as part of the present study. The forecast identifies development-related projects and their gross and net costs, after allowing for capital grants, subsidies or other contributions as required by the Act (*DCA*, s. 5. (2)). The capital forecast provides another cornerstone upon which development charges are based. The *DCA* requires that the increase in the need for service attributable to the anticipated development may include an increase:

... only if the council of the municipality has indicated that it intends to ensure that such an increase in need will be met. (s. 5. (1) 3.)

In conjunction with *DCA*, s. 5. (1) 4 referenced above, these sections have the effect of requiring that the development charge be calculated on the lesser of the historical ten-year average service levels or the service levels embodied in future plans of the City. The development-related capital forecast prepared for this study ensures that development charges are only imposed to help pay for projects that have been or are intended to be purchased or built in order to accommodate future anticipated development. It is not sufficient in the calculation of development charges merely to have had the service in the past. There must also be a demonstrated commitment to continue to emplace facilities or infrastructure in the future. In this regard, *Ontario Regulation 82/98*, s. 3 states that:

For the purposes of paragraph 3 of subsection 5 (1) of the *Act*, the council of a municipality has indicated that it intends to ensure that an increase in the need for service will be met if the increase in service forms part of an official plan, capital forecast or similar expression of the intention of the council and the plan, forecast or similar expression of the intention of the council has been approved by the council.



For some projects in the development-related capital forecast, a portion of the project may confer benefits to existing residents. As required by the *DCA*, s. 5. (1) 6, these portions of projects and their associated net costs are the funding responsibility of the City from non-development charges sources. The amount of City funding for such non-growth shares of projects is also identified as part of the preparation of the development-related capital forecast.

iv. Attribution to Types of Development

For the city-wide development charge, the next step in the determination of development charges is the allocation of the development-related net capital costs between the residential and the non-residential sectors. This is done by using different apportionments for different services in accordance with the demands which the two sectors would be expected to place on the various services and the different benefits derived from those services.

Where reasonable data exists, the apportionment is based on the expected demand for, and use of, the service by each sector (e.g. shares of population and employment).

Additionally, the residential component of the city-wide development charge is applied to different housing types on the basis of average occupancy factors. The non-residential component is applied on the basis of gross building space in square metres.

The Area-Specific Development Charges are apportioned on the basis of net developable land area. This is the same approach as presently used by the City and is judged to equitably apply the charge only against lands that can be developed.



v. Final Adjustment

The final determination of the development charge results from adjustments made to growth-related net capital costs for each service and sector resulting from the application of any unallocated growth-related reserve fund balances that are available to finance the growth-related capital costs in the capital forecast. A cash flow analysis is also undertaken to account for the timing of projects and receipt of development charges. Interest earnings or borrowing costs are therefore accounted for in the calculation as allowed under the *DCA*.



3. Development Forecast

This section provides the basis for the development forecasts used in calculating the development charges and provides a summary of the forecast results. The development forecast in the Development Charges Background Study is based on estimates of growth occurring within approved Official Plan designated urban areas. This forecast is consistent with population and employment targets used in York Region's 2016 Development Charges Background Study which was based on the 45 per cent intensification scenario. The values have been adjusted in the initial years to reflect recent Census releases.

This section portrays a summary of the results of the housing unit and population forecast and of the non-residential employment and space forecast. Details of the forecasts are provided in Appendix A.

A. The Residential Forecast is Based on the 2011 and 2016 Census and Official Plan Targets

The residential growth forecast is based on development that is expected in designated urban areas of Markham's Official Plan. A description of the forecast methodology and more detailed tables of results are provided in Appendix A. Complete data from the 2021 Census is not available for inclusion in this DC Background Study. Table 1 provides a summary of the residential forecast for the 2022 – 2031 planning period.



TABLE 1

CITY OF MARKHAM SUMMARY OF RESIDENTIAL DEVELOPMENT FORECAST

	2021	Soft Service Per 2022 -	
	Estimate	Growth	Total at 2031
Residential Development Forecast			
Total Occupied Dwellings <i>Singles & Semis</i> <i>Rows & Other Multiples</i> <i>Apartments</i>	114,233	32,673 <i>10,545</i> <i>8,853</i> <i>13,274</i>	146,905
Total Population Census <i>Population In New Dwellings</i>	354,589	90,071 <i>90,381</i>	444,660

The City's population is expected to increase by about 25 per cent over the next ten years reaching approximately 444,660 by 2031.

The population figures referred to above reflect the "net" increase in population. This is the increase after taking into account the expected continuation of the decline in occupancy factors in existing housing units. The population residing in new housing units is expected to increase by 90,070 people over the 10-year planning period.

About 32,670 housing units are forecast to be developed between 2022 and 2031. The composition of the new units is forecast to be 32 per cent singles/semis, 27 per cent rows and other multiples, and 41 per cent apartments.



B. Non-Residential Space Forecast is Based on Forecast Employment Growth

The non-residential space forecast is based on the forecast of employment, since most new non-residential space is required to accommodate new employment growth.

Table 2 provides a summary of the employment forecast for the 2022 – 2031 period. Over the next ten years, employment is projected to grow by 55,590 employees, an increase of 35 per cent from the City's current employment base. The table also shows that about 2.55 million square metres of GFA is forecast to come on-stream over the next decade.



TABLE 2

CITY OF MARKHAM SUMMARY OF NON-RESIDENTIAL DEVELOPMENT FORECAST

	2021	Soft Servic Per 2022 -	
	Estimate	Growth	Total at 2031
Non-Residential Development Forecast			
Place of Work Employment <i>Mixed-Use</i> <i>Retail</i> <i>Institutional</i> <i>Industrial</i> <i>Office</i> <i>Rural</i>	160,210	55,590 825 <i>15,679 10,210 8,870 19,990 14</i>	215,800
Non-Residential Building Space (sq.m.) <i>Mixed-Use</i> <i>Retail</i> <i>Institutional</i> <i>Industrial</i> <i>Office</i> <i>Rural</i>		2,550,244 33,009 <i>627,176 680,685 709,619 499,755</i> -	



4. Summary of Historical Capital Service Levels

The *DCA* and *Ontario Regulation 82/98 (O. Reg. 82/98)* require that the development charges be set at a level no higher than the average service level provided in the municipality over the ten-year period immediately preceding the preparation of the background study, on a service by service basis.

For non-engineering services such as Fire, Library, Indoor Recreation etc. the legislative requirement is met by documenting historical service levels for the preceding ten years, in this case, for the period 2012 to 2021. Service levels have been measured as a ratio of inputs per capita or per capita and employment. With city-wide hard services such as water and stormwater facilities, engineering and legislated environmental and health standards are used in lieu of inputs per capita and employment. A per capita and employment standard has been included for roads related infrastructure.

O. Reg. 82/98 requires that when determining historical service levels both quantity and quality of service be taken into consideration. In most cases, the service levels are initially established in quantitative terms. For example, service levels for buildings are presented in terms of square feet per capita. The qualitative aspect is introduced by the consideration of the monetary value of the facility or service. In the case of buildings, for example, the cost would be shown in terms of dollars per square foot to replace or construct a facility of the same quality. This approach helps to ensure that the growth-related capital facilities that are to be charged to new growth reflect not only the quantity (number and size) but also the quality (value or replacement cost) of service provided historically by the City. Both the quantitative and qualitative aspects of service levels used in the present analysis are based on information provided by staff of the City and boards based on historical



records and their experience with costs to acquire or construct similar facilities, equipment and infrastructure as of 2022.

Table 3 summarizes service levels for all soft services included in the development charge calculation. Appendix B provides detailed historical inventory data upon which the calculation of service levels is based.



TABLE 3

CITY OF MARKHAM SUMMARY OF AVERAGE HISTORIC SERVICE LEVELS 2012 - 2021 FOR SOFT SERVICES

			2012 - 2021		
Service		Service Level			
		Indicator			
10	General Government	N/A			
1.0		10/71			
2.0	Library	\$585.95	Per Capita		
	Buildings	\$274.91	Per Capita		
	Land	\$209.79	Per Capita		
	Materials	\$72.83	Per Capita		
	Fixtures, Furniture & Equipment	\$28.41	Per Capita		
3.0	Fire Services	\$315.73	Per Population + Employment		
	Buildings	\$100.44	Per Population + Employment		
	Land	\$142.66	Per Population + Employment		
	Furniture & Equipment	\$28.26	Per Population + Employment		
	Vehicles	\$44.37	Per Population + Employment		
4.0	Indoor Recreation	\$3,873.12	Per Capita		
	Halls And Meeting Rooms	\$332.97	Per Capita		
	Ice Pads	\$555.75	Per Capita		
	Indoor Soccer	\$48.27	Per Capita		
	Indoor Pool	\$356.28	Per Capita		
	Fitness Centres	\$79.14	Per Capita		
	Gymnasium		Per Capita		
	Senior Centres		Per Capita		
	Common Space - Major Community Ce		Per Capita		
	Parking Structures		Per Capita		
	Land		Per Capita		
	Furniture & Equipment		Per Capita		
5.0	Park Development & Facilities	\$1.882.77	Per Capita		
	Outdoor Rec		Per Capita		
	Sports Fields		Per Capita		
	Parks		Per Capita		
	Bridges		Per Capita		
6.0	Public Works	\$282.86	Per Population + Employment		
0.0	Buildings		Per Population + Employment		
	Land		Per Population + Employment		
	Furniture & Equipment		Per Population + Employment		
	Fleet & Equipment		Per Population + Employment		
0.0	Weste Diversion	# 70.00	Par Carita		
8.0	Waste Diversion		Per Capita		
	Buildings		Per Capita		
	Land		Per Capita		
	Vehicles	\$30.26	Per Capita		
9.0	Roads & Related	\$22,688.49	Per Population + Employment		
	Property ROW		Per Population + Employment		
	Roads	\$3,478.02	Per Population + Employment		
	Streetlights	\$448.62	Per Population + Employment		
	Bridges & Culverts	\$576.66	Per Population + Employment		
	Traffic Signals		Per Population + Employment		
	Sidewalks	\$918.44	Per Population + Employment		



5. The Development-Related Capital Forecast

A. A Development-Related Capital Forecast is Provided for Council's Approval

The *DCA* requires the Council of a municipality to express its intent to provide future capital facilities at the level incorporated in the development charges calculation. As noted above in Section II, *Ontario Regulation 82/98*, s. 3 states that:

For the purposes of paragraph 3 of subsection 5 (1) of the Act, the council of a municipality has indicated that it intends to ensure that an increase in the need for service will be met if the increase in service forms part of an official plan, capital forecast or similar expression of the intention of the council and the plan, forecast or similar expression of the intention of the council has been approved by the council.

Based on the development forecasts summarized in Section III and detailed in Appendix A, staff of the City departments, in collaboration with the consultants, compiled a development-related capital forecast setting out those projects that are required to service anticipated growth over the planning period. For all city-wide services, the capital plan covers the tenyear period from 2022 to 2031.

One of the recommendations contained in this background study is for Council to adopt the development-related capital forecast developed for the purposes of the development charges calculation. It is assumed that future capital budgets and forecasts will continue to bring forward the growthrelated projects contained herein that are consistent with the growth occurring in the City. It is acknowledged that changes to the forecast presented here may occur through the City's normal capital budget process.



B. The Development-Related Capital Forecast for City-Wide Soft Services

A summary of the development-related capital forecast for soft services is presented in Table 4. The full details of the soft services capital forecasts are included in Appendix B.



CITY OF MARKHAM SUMMARY OF DEVELOPMENT-RELATED CAPITAL FORECAST FOR SOFT SERVICES 2022 - 2031 (in \$000)

	Gross	Grants/	Net Total Net Capital Program										
Service	Cost	Subsidies	Cost	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
	\$ 04,000 T	*• •	* •••••	** * ** * *	AO 105 0	A0 1 0 5	AO 105 0	40 105 0	40 105 0	A0 1 0 5 0	** • • • • •	A0 1 0 0	40 105 0
1.0 GENERAL GOVERNMENT	\$34,099.7	\$0.0	\$34,099.7	\$14,614.7	\$2,165.0	\$2,165.0	\$2,165.0	\$2,165.0	\$2,165.0	\$2,165.0	\$2,165.0	\$2,165.0	\$2,165.0
1.1 Recovery of Past Commitments	\$12,449.7 \$21.650.0	\$0.0	\$12,449.7	\$12,449.7	\$0.0 \$2.165.0	\$0.0 \$2.165.0	\$0.0 \$2.165.0	\$0.0 \$2.165.0	\$0.0	\$0.0	\$0.0	\$0.0 \$2.165.0	\$0.0
1.2 Development-Related Studies	\$21,650.0	\$0.0	\$21,650.0	\$2,165.0	\$2,165.0	\$2,165.0	\$2,165.0	\$2,165.0	\$2,165.0	\$2,165.0	\$2,165.0	\$2,165.0	\$2,165.0
2.0 LIBRARY	\$87,883.4	\$0.0	\$87,883.4	\$19,301.1	\$0.0	\$0.0	\$0.0	\$29,980.2	\$0.0	\$0.0	\$0.0	\$38,602.1	\$0.0
2.1 Library Buildings	\$55,350.0	\$0.0	\$55,350.0	\$12,300.0	\$0.0	\$0.0	\$0.0	\$18,450.0	\$0.0	\$0.0	\$0.0	\$24,600.0	\$0.0
2.2 Library Land	\$10,285.5	\$0.0	\$10,285.5	\$2,057.1	\$0.0	\$0.0	\$0.0	\$4,114.2	\$0.0	\$0.0	\$0.0	\$4,114.2	\$0.0
2.3 Library Furniture and Equipment	\$7,241.6	\$0.0	\$7,241.6	\$1,609.2	\$0.0	\$0.0	\$0.0	\$2,413.9	\$0.0	\$0.0	\$0.0	\$3,218.5	\$0.0
2.4 Library Collection Materials	\$15,006.3	\$0.0	\$15,006.3	\$3,334.7	\$0.0	\$0.0	\$0.0	\$5,002.1	\$0.0	\$0.0	\$0.0	\$6,669.5	\$0.0
3.0 FIRE SERVICES	\$51,537.0	\$0.0	\$51,537.0	\$12,075.5	\$12,101.1	\$900.0	\$12,075.5	\$0.0	\$0.0	\$0.0	\$0.0	\$14,384.9	\$0.0
3.1 Fire Buildings	\$22,396.0	\$0.0	\$22,396.0	\$5,090.0	\$5,090.0	\$0.0	\$5,090.0	\$0.0	\$0.0	\$0.0	\$0.0	\$7,126.0	\$0.0
3.2 Land for Fire Buildings	\$21,942.4	\$0.0	\$21,942.4	\$5,485.6	\$5,485.6	\$0.0	\$5,485.6	\$0.0	\$0.0	\$0.0	\$0.0	\$5,485.6	\$0.0
3.3 Fire Furniture and Equipment	\$1,907.8	\$0.0	\$1,907.8	\$433.6	\$433.6	\$0.0	\$433.6	\$0.0	\$0.0	\$0.0	\$0.0	\$607.0	\$0.0
3.4 Firefighter Equipment	\$665.2	\$0.0	\$665.2	\$166.3	\$166.3	\$0.0	\$166.3	\$0.0	\$0.0	\$0.0	\$0.0	\$166.3	\$0.0
3.5 Fire Vehicles	\$4,625.7	\$0.0	\$4,625.7	\$900.0	\$925.7	\$900.0	\$900.0	\$0.0	\$0.0	\$0.0	\$0.0	\$1,000.0	\$0.0
4.0 INDOOR RECREATION	\$348,936.9	\$0.0	\$348,936.9	\$46,852.4	\$0.0	\$6,765.0	\$6,765.0	\$54,460.0	\$6,765.0	\$0.0	\$57,524.5	\$169,805.0	\$0.0
4.1 Recovery of Past Commitments	\$46,852.4	\$0.0	\$46,852.4	\$46,852.4	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
4.2 Major Facilities	\$175,326.0	\$0.0	\$175,326.0	\$0.0	\$0.0	\$6,150.0	\$6,150.0	\$24,600.0	\$6,150.0	\$0.0	\$27,726.0	\$104,550.0	\$0.0
4.3 Land for Major Facilities	\$109,600.0	\$0.0	\$109,600.0	\$0.0	\$0.0	\$0.0	\$0.0	\$27,400.0	\$0.0	\$0.0	\$27,400.0	\$54,800.0	\$0.0
4.4 Furniture & Equipment	\$17,158.5	\$0.0	\$17,158.5	\$0.0	\$0.0	\$615.0	\$615.0	\$2,460.0	\$615.0	\$0.0	\$2,398.5	\$10,455.0	\$0.0
5.0 PARK DEVELOPMENT & FACILITIES	\$325,989.9	\$0.0	\$325,989.9	\$28,586.6	\$15,156.2	\$65,935.4	\$34,363.5	\$67,906.2	\$37,124.4	\$42,656.9	\$14,605.8	\$11,924.0	\$7,731.0
5.1 Basketball - Full Court	\$1,297.6	\$0.0	\$1,297.6	\$81.1	\$0.0	\$486.6	\$0.0	\$324.4	\$243.3	\$0.0	\$162.2	\$0.0	\$0.0
5.2 Basketball - Half Court	\$524.0	\$0.0	\$524.0	\$43.7	\$0.0	\$131.0	\$131.0	\$43.7	\$131.0	\$0.0	\$43.7	\$0.0	\$0.0
5.3 Baseball Diamond - Major	\$748.6	\$0.0	\$748.6	\$0.0	\$0.0	\$748.6	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
5.4 Baseball Diamond - Major Lit	\$2,495.5	\$0.0	\$2,495.5	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$2,495.5	\$0.0	\$0.0	\$0.0
5.5 Cricket Pitch	\$827.6	\$0.0	\$827.6	\$827.6	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
5.6 Exercise Station	\$2,807.4	\$0.0	\$2,807.4	\$187.2	\$280.7	\$561.5	\$467.9	\$561.5	\$374.3	\$93.6	\$93.6	\$0.0	\$187.2
5.7 Gazebos & Shelters - Major	\$13,725.0	\$0.0	\$13,725.0	\$1,247.7	\$311.9	\$3,743.2	\$1,559.7	\$2,183.5	\$2,183.5	\$1,871.6	\$311.9	\$311.9	\$0.0
5.8 Gazebos & Shelters - Minor	\$8,229.9	\$0.0	\$8,229.9	\$896.3	\$407.4	\$1,874.1	\$733.4	\$1,548.2	\$1,140.8	\$1,140.8	\$244.5	\$163.0	\$81.5
5.9 Hard Surface - Plaza	\$1,185.2	\$0.0	\$1,185.2	\$235.5	\$22.4	\$79.9	\$14.9	\$515.4	\$77.1	\$156.5	\$14.9	\$46.4	\$22.4
5.10 Multipurpose Court	\$610.7	\$0.0	\$610.7	\$87.2	\$87.2	\$261.7	\$0.0	\$87.2	\$87.2	\$0.0	\$0.0	\$0.0	\$0.0
5.11 Parking Lot - Lighting	\$494.1	\$0.0	\$494.1	\$89.8	\$0.0	\$67.4	\$67.4	\$269.5	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
5.12 Parking Lot - Major	\$6,250.0	\$0.0	\$6,250.0	\$625.0	\$0.0	\$1,250.0	\$625.0	\$2,500.0	\$0.0	\$1,250.0	\$0.0	\$0.0	\$0.0
5.13 Parking Lot - Minor	\$1,162.5	\$0.0	\$1,162.5	\$262.5	\$525.0	\$187.5	\$187.5	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0



CITY OF MARKHAM SUMMARY OF DEVELOPMENT-RELATED CAPITAL FORECAST FOR SOFT SERVICES 2022 - 2031 (in \$000)

	Gross	Grants/	Net					Total Net Ca	pital Program				
Service	Cost	Subsidies	Cost	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
5.0 PARK DEVELOPMENT & FACILITIES													
5.14 Pedestrian Lighting	\$551.5	\$0.0	\$551.5	\$0.0	\$0.0	\$348.7	\$81.1	\$0.0	\$121.7	\$0.0	\$0.0	\$0.0	\$0.0
5.15 Playground - Junior	\$3,181.7	\$0.0	\$3,181.7	\$374.3	\$187.2	\$561.5	\$187.2	\$561.5	\$561.5	\$561.5	\$0.0	\$0.0	\$187.2
5.16 Playground - Senior	\$3,743.2	\$0.0	\$3,743.2	\$499.1	\$249.5	\$499.1	\$249.5	\$748.6	\$748.6	\$748.6	\$0.0	\$0.0	\$0.0
5.17 Playground - Junior & Senior	\$28,786.9	\$0.0	\$28,786.9	\$3,048.0	\$1,354.7	\$7,112.0	\$3,725.4	\$4,741.4	\$3,386.7	\$2,370.7	\$1,354.7	\$1,016.0	\$677.3
5.18 Seatwall & Feature Wall	\$579.5	\$0.0	\$579.5	\$97.6	\$18.3	\$97.6	\$24.4	\$122.0	\$67.1	\$134.2	\$12.2	\$6.1	\$0.0
5.19 Skateboard Park - Major	\$1,123.0	\$0.0	\$1,123.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$1,123.0	\$0.0	\$0.0	\$0.0
5.20 Skateboard Park - Minor	\$1,996.4	\$0.0	\$1,996.4	\$0.0	\$0.0	\$748.6	\$249.5	\$0.0	\$249.5	\$249.5	\$249.5	\$249.5	\$0.0
5.21 Soccer Field - Major	\$2,368.1	\$0.0	\$2,368.1	\$0.0	\$0.0	\$1,184.1	\$394.7	\$0.0	\$789.4	\$0.0	\$0.0	\$0.0	\$0.0
5.22 Soccer Field - Major Lit	\$10,480.9	\$0.0	\$10,480.9	\$0.0	\$0.0	\$1,497.3	\$0.0	\$5,989.1	\$0.0	\$2,994.5	\$0.0	\$0.0	\$0.0
5.23 Soccer Field - Mini Pitch	\$249.5	\$0.0	\$249.5	\$0.0	\$0.0	\$249.5	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
5.24 Soccer Field - Minor	\$203.7	\$0.0	\$203.7	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$203.7	\$0.0	\$0.0	\$0.0	\$0.0
5.25 Splash Pad - Major	\$4,491.8	\$0.0	\$4,491.8	\$998.2	\$0.0	\$1,497.3	\$499.1	\$499.1	\$499.1	\$499.1	\$0.0	\$0.0	\$0.0
5.26 Splash Pad - Minor	\$1,487.3	\$0.0	\$1,487.3	\$0.0	\$0.0	\$185.9	\$557.7	\$185.9	\$371.8	\$0.0	\$0.0	\$185.9	\$0.0
5.27 Tennis Court - Double (Unlit)	\$2,433.1	\$0.0	\$2,433.1	\$93.6	\$0.0	\$935.8	\$280.7	\$280.7	\$467.9	\$93.6	\$93.6	\$187.2	\$0.0
5.28 Trellis - Major	\$748.6	\$0.0	\$748.6	\$0.0	\$0.0	\$249.5	\$0.0	\$249.5	\$249.5	\$0.0	\$0.0	\$0.0	\$0.0
5.29 Trellis - Minor	\$1,190.4	\$0.0	\$1,190.4	\$0.0	\$0.0	\$541.1	\$0.0	\$0.0	\$324.7	\$0.0	\$108.2	\$108.2	\$108.2
5.30 Walkway & Paths - Asphalt	\$566.1	\$0.0	\$566.1	\$8.7	\$60.9	\$144.2	\$60.9	\$269.7	\$21.8	\$0.0	\$0.0	\$0.0	\$0.0
5.31 Walkway & Paths - Concrete	\$7,077.9	\$0.0	\$7,077.9	\$686.3	\$310.3	\$1,714.8	\$665.1	\$791.3	\$1,072.8	\$1,319.4	\$243.8	\$194.4	\$80.0
5.32 Walkway & Paths - Limestone	\$6.2	\$0.0	\$6.2	\$0.0	\$0.0	\$6.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
5.33 Washroom Facilities	\$6,953.5	\$0.0	\$6,953.5	\$731.9	\$0.0	\$3,293.8	\$731.9	\$731.9	\$0.0	\$1,463.9	\$0.0	\$0.0	\$0.0
5.34 Park Development - Community/City-Wide	\$207,412.6	\$0.0	\$207,412.6	\$17,465.3	\$11,340.7	\$35,676.9	\$22,869.4	\$44,702.0	\$23,751.5	\$24,091.0	\$11,673.0	\$9,455.4	\$6,387.3
6.0 PUBLIC WORKS	\$107,794.3	\$0.0	\$107,794.3	\$2,728.2	\$61,475.3	\$3,760.0	\$35,140.7	\$786.2	\$817.9	\$1,294.8	\$809.3	\$982.0	\$0.0
6.1 Recovery of Past Commitments	\$2,347.9	\$0.0	\$2,347.9	\$2,347.9	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
6.2 Public Works Buildings	\$34,095.3	\$0.0	\$34,095.3	\$0.0	\$0.0	\$0.0	\$34,095.3	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
6.3 Land for Public Works	\$63,660.4	\$0.0	\$63,660.4	\$0.0	\$60,904.6	\$2,755.7	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
6.4 Furniture & Equipment	\$285.6	\$0.0	\$285.6	\$0.0	\$0.0	\$0.0	\$285.6	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
6.5 Fleet	\$7,405.1	\$0.0	\$7,405.1	\$380.3	\$570.6	\$1,004.3	\$759.8	\$786.2	\$817.9	\$1,294.8	\$809.3	\$982.0	\$0.0
7.0 WASTE DIVERSION	\$9,254.0	\$0.0	\$9,254.0	\$2,057.1	\$1,040.4	\$0.0	\$3,606.1	\$1,001.4	\$0.0	\$0.0	\$0.0	\$1,549.0	\$0.
7.1 Waste Buildings	\$1,591.8	\$0.0	\$1,591.8	\$0.0	\$795.9	\$0.0	\$0.0	\$795.9	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
7.2 Land for Waste Buildings	\$4,114.2	\$0.0	\$4,114.2	\$2,057.1	\$0.0	\$0.0	\$2,057.1	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.
7.3 Furniture & Equipment	\$450.0	\$0.0	\$450.0	\$0.0	\$244.5	\$0.0	\$0.0	\$205.5	\$0.0	\$0.0	\$0.0	\$0.0	\$0.
7.4 Fleet	\$3,098.0	\$0.0	\$3,098.0	\$0.0	\$0.0	\$0.0	\$1,549.0	\$0.0	\$0.0	\$0.0	\$0.0	\$1,549.0	\$0.
TOTAL - 10 YEAR SOFT SERVICES	\$965.495.3	\$0.0	\$965,495.3	\$126.215.6	\$91.938.0	\$79,525.4	\$94.115.7	\$156,298.9	\$46,872.4	\$46.116.6	\$75.104.5	\$239,412.0	\$9,896.0



The development-related ten-year capital forecast for soft services estimates a total gross cost of \$965.50 million. No senior government grants are expected to be received over the ten-year period and, as such, \$965.50 million is brought forward as the net cost to the City.

This capital forecast incorporates those projects identified to be related to development anticipated in the next ten years. It is not implied that all of these costs are to be recovered from new development by way of development charges (see the following Section VI for the method and determination of net capital costs attributable to growth). Portions of this capital forecast may relate to providing servicing for growth which has occurred prior to 2022 (for which development charge reserve fund balances exist), or for growth anticipated to occur beyond the 2031 planning horizon.

Of the \$965.50 million, 36 per cent (\$348.94 million) is related to the provision of Indoor Recreation. The capital program includes the recovery of a negative reserve fund balance (\$46.85 million), the construction and/or expansion of eight major facilities (\$175.33 million), as well as the accompanying land (\$109.60 million), and furniture & equipment (17.16 million).

The next largest growth-related capital component is for Park Development & Related facilities at \$207.41 million (34 per cent). A variety of playing fields, tennis courts, indoor pools, playground equipment, basketball and other play courts are included in the capital program. This service category also provides for the development of various parks across the City.

An extensive growth-related capital servicing plan is forecast for Public Works at \$107.79 million (11 per cent). The development-related capital program includes the recovery of a negative reserve fund balance (\$2.35 million), the construction of three new buildings (\$34.10 million), the acquisition of land for a works yard expansion and land development (\$63.66 million), as well as furniture & equipment (\$0.29 million), and the acquisition of 53 fleet (\$7.41 million).



The net growth-related capital forecast for the Library service totals about \$87.88 million (9 per cent of total capital program for soft services). The program includes the addition of five new library facilities (\$55.35 million), as well as the associated land (\$10.29 million), furniture & equipment (\$7.24 million), and collection material (\$15.01 million).

The \$51.34 million capital program related to Fire Services (5 per cent) provides for four new fire stations (\$22.40 million), the associated land (\$21.94 million), furniture & equipment (\$1.91 million), equipment for 84 new firefighters (\$0.67 million), as well as six additional fleet (\$4.63 million).

General Government (growth studies) is included at \$34.10 million (4 per cent), and includes the recovery of a negative reserve fund balance (\$12.45 million), as well a provision for various growth-related studies (\$21.65 million).

Finally, Waste Diversion adds an additional \$9.25 million to the ten-year capital forecast. The Waste Diversion capital program includes a provision for two new depots (\$1.59 million), the associated land (\$4.11 million), furniture & equipment (\$0.45 million), as well as ten additional fleet (\$3.10 million).

C. The Development-Related Capital Forecast for City-Wide Hard Services

A summary of the development-related capital forecast for the City-wide hard services is presented in Table 5. The table provides a summary breakdown of the City-wide hard services. Further details on the capital plans for each individual service category are available in Appendix C.

The gross cost of the capital program totals \$1.83 billion. A local service or "internal" component is identified for some of the projects, reflecting the cost that a development would have to pay to provide for required local

servicing for a particular subdivision. The City will continue to require these contributions through the normal subdivision process, but excluding them from the development charges calculation ensures that only the oversized portion of costs is shared by other developments. The total recoveries anticipated from local costs are estimated at \$379.41 million. A further \$33.18 million has been identified as a non-growth or benefit to existing shares and will be recovered from other municipal funding sources. The remaining capital cost of \$1.41 billion is deemed development-related and recoverable from development charges.

Of the remaining share, \$18.50 million will be funded through portions of the projects that are allocated to the area-specific development charges proposed in this study. A further \$129.41 million is considered other development-related and will be considered for recovery under subsequent development charge studies. \$57.03 million has been identified as revenue from the collection of prior development charges related to projects included in the program.

The remaining \$1.21 forms the in-period City-wide development charge recoverable portion of the capital program for City-wide hard services. Of this amount, 31.7 per cent of the capital program relates to the provision of structures valued at \$382.76 million; roads, valued at \$274.96 million, make up 22.8 cent. Properties acquisition (\$245.04 million) accounts for approximately 20.3 per cent of the capital program.



CITY OF MARKHAM CITY-WIDE HARD SERVICES DEVELOPMENT-RELATED PROJECTS SUMMARY 2022 - 2031

	Tot	tal Gross Cost	 Non-Develop Recovera	ble	-	-	ea Specific & Other Pevelopment			D	Other evelopment-	D	City-Wide Development
Service			Local Costs		(Benefit to Existing)		Charges Recovery	P	rior Growth		Related	F	Charge Recoverable
ILLUMINATION	\$	44,640,000	\$ 217,114	\$	3,721,999	\$	-	\$	-	\$	1,776,168	\$	38,924,718
INTERSECTION	\$	43,111,194	\$ 403,999	\$	4,272,330	\$	-	\$	-	\$	-	\$	38,434,865
ROADS	\$	604,538,439	\$ 243,553,583	\$	-	\$	-	\$	11,125,155	\$	74,895,469	\$	274,964,232
PROPERTIES ACQUISITION	\$	266,083,580	\$ 8,347,025	\$	-	\$	-	\$	12,279,353	\$	420,857	\$	245,036,345
SIDEWALKS	\$	72,400,047	\$ 244,164	\$	6,036,536	\$	-	\$	-	\$	6,036,536	\$	60,082,811
STORM WATER MANAGEMENT	\$	50,474,837	\$ -	\$	7,311,950	\$	16,039,216	\$	3,801,032	\$	-	\$	23,322,638
WATERMAIN	\$	83,090,298	\$ 687,748	\$	651,348	\$	364,813	\$	9,861,531	\$	-	\$	71,524,858
STUDIES	\$	18,003,000	\$ -	\$	-	\$	-	\$	-	\$	-	\$	18,003,000
SPECIAL PROJECTS	\$	90,505,053	\$ 19,218,118	\$	11,186,286	\$	-	\$	-	\$	7,080,786	\$	53,019,863
STRUCTURES	\$	542,259,752	\$ 106,739,947	\$	-	\$	-	\$	16,062,886	\$	36,697,757	\$	382,759,161
SANITARY SEWER	\$	5,000,000	\$ -	\$	-	\$	-	\$	-	\$	2,500,000	\$	2,500,000
CREDIT AGREEMENT PROJECTS	\$	5,989,298	\$ -	\$	-	\$	2,093,566	\$	3,895,732	\$	-	\$	-
TOTAL	\$1	1,826,095,497	\$ 379,411,698	\$	33,180,448	\$	18,497,595	\$	57,025,690	\$	129,407,574	\$1	L,208,572,492

The balance of the gross capital cost capital program is for watermain projects (\$71.52 million), special project (largely streetscaping) (\$53.02 million), illumination (\$38.92 million), intersections (\$38.43 million), studies (\$18.00 million), and sanitary sewer (\$2.50 million).

D. The Development-Related Capital Forecast for Area-Specific Services

Table 6 provides a summary of the development-related capital program for area-specific services (the projects included in the capital program for each area are identified in Appendix D).

Many of the area-specific projects provide benefits to multiple areas and City-wide hard services, and the recovery of the cost of these projects are shared amongst many areas. In addition, an internal component is identified for some of the projects, reflecting the cost that a development would have to pay to provide for required local servicing for a particular subdivision. The City will continue to require these contributions through the normal subdivision process, but excluding them from the development charges calculations ensures that only the oversized portion of costs is shared by other developments. A further share of some projects is identified as a nongrowth or benefit to existing share to be funded from other municipal revenue sources. The costs shown in the column entitled, "growth-related costs" are net of the local costs and non-growth shares.

In total, \$136.53 million is identified as area-specific growth-related costs. However, not all of these costs are recovered through ASDC by-laws. Any available DC reserve fund balances have been applied to the growth-related costs. In addition, if there are any credits in agreement or any projects funded from reserves, these cost have been appropriately accounted for. After these adjustments, the ASDC recoverable is \$121.21 million, and this amount forms the basis for the area-specific development charges calculations.



CITY OF MARKHAM SUMMARY OF AREA-SPECIFIC DEVELOPMENT CHARGES FOR AREA-SPECIFIC SERVICES 2022-2031

						Adjustments		
Area Name	Area	Gro	owth-Related Costs	R	eserve Fund Balance	Credits in Agreement	Projects Inded From Reserve	Total ASDC Recoverable
Yonge Steeles Corridor	1B	\$	12,995,613	\$	582,656	\$ -	\$ -	\$12,412,957.20
Armadale	5	\$	1,213,831	\$	675,358	\$ 293,988	\$ -	\$244,484.80
Armadale NE	7	\$	521,486	\$	121,641	\$ -	\$ -	\$399,844.81
PD 1-7	9	\$	7,565,306	\$	1,270,491	\$ 3,419,592	\$ -	\$2,875,222.11
Rodick/Miller Road Planning District	17	\$	16,541,096	\$	(1,127,770)	\$ -	\$ -	\$17,668,865.79
Mount Joy	23	\$	2,705,336	\$	58,018	\$ -	\$ -	\$2,647,318.21
Markham Centre - South Unionville - Helen Ave	42A.1	\$	3,137,837	\$	1,347	\$ 2,063,068	\$ 691,311	\$382,111.42
Markham Centre	42B	\$	881,933	\$	74,313	\$ -	\$ -	\$807,620.00
Markham Centre - Clegg	42B.2	\$	504,473	\$	(199,392)	\$ -	\$ -	\$703,865.17
Markham Centre - Hotel	42B.4	\$	424,385	\$	(23,525)	\$ -	\$ -	\$447,909.93
Markham Centre - South Hwy 7	42B.6	\$	10,582,519	\$	814,222	\$ 3,795,207	\$ -	\$5,973,090.18
Markham Centre - Sciberras	42B.8	\$	6,400,392	\$	(750,458)	\$ -	\$ -	\$7,150,850.27
Markham Centre - East Precinct	42B.9	\$	3,125,352	\$	1,663,489	\$ -	\$ -	\$1,461,862.97
Cathedral	46	\$	1,041,155	\$	198,589	\$ 290,350	\$ -	\$552,215.78
York Downs	47B	\$	502,681	\$	379,541	\$ -	\$ -	\$123,140.04
404 North	49	\$	2,034,211	\$	1,022,798	\$ -	\$ -	\$1,011,412.51
Future Urban Area	50A	\$	7,587,159	\$	-	\$ -	\$ -	\$7,587,159.00
Future Urban Area - Employment Block	50A-1	\$	25,533,491	\$	-	\$ -	\$ -	\$25,533,491.00
Future Urban Area - Robinson Glen	50A-2	\$	2,683,382	\$	-	\$ -	\$ -	\$2,683,381.85
Future Urban Area - Berczy Glen Block	50A-3	\$	19,150,464	\$	-	\$ -	\$ -	\$19,150,464.22
Future Urban Area - Angus Glen Block	50A-4	\$	11,392,962	\$	-	\$ -	\$ -	\$11,392,962.16
Future Urban Area - Robinson Glen South Block	50A-5	\$	534,985	\$	_	\$ _	\$ -	\$534,985
Total		\$1	L37,060,049		\$4,761,318	\$9,862,205	\$691,311	\$121,745,214

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6. Proposed Development Charges are Calculated in Accordance with the *DCA*

This section summarizes the calculation of development charges for each service category and the resulting total development charge by type of development. For City-wide services, the calculation of the "unadjusted" per capita (residential) and per square metre and per square metre (nonresidential) charges is reviewed. Adjustments to these amounts resulting from a cash flow analysis that takes interest earnings and borrowing costs into account are also discussed.

For the both City-wide soft and City-wide hard services, the charges are calculated and levied as follows. For residential development, the adjusted total per capita amount is then converted to a variable charge by housing unit type using various unit occupancy factors. For non-residential development, the calculated development charges rates are based on a gross floor area (GFA) of building space. Historically, the City has levied the CWS non-residential development charges on a differentiated basis and the CWH non-residential charges on a land area (per net developable hectare) basis. Through discussions with staff and Council it was determined that both the CWS and CWH non-residential charges, the rates are proposed to continue to be calculated and levied on a per net hectare basis.

It is noted that the calculation of the city-wide development charges does not include any provision for exemptions required under the *DCA* such as the exemption for enlargements of up to 50 per cent on existing industrial buildings. Such legislated exemptions, or other exemptions which Council may choose to provide, will result in loss of development charge revenue for the affected types of development. Any such revenue loss may not be made



up, however, by offsetting increases in other portions of the calculated charge.

A. Development Charge Calculation for City-Wide and Area-Specific Services

A summary of the "unadjusted" residential and non-residential development charges for city-wide services is presented in Tables 7 and 8. Further details of the calculation for each individual City service category are available in Appendices B and C.

i. City-Wide Soft (CWS) Services

A summary of the "unadjusted" residential and non-residential development charges for the city-wide soft services is presented in Table 7.

The capital forecast for the soft services incorporates those projects identified to be related to growth anticipated in the next ten years. However, not all of the capital costs are to be recovered from new development by way of development charges. Table 7 shows that \$39.28 million has been identified as available DC reserves and represents the revenues collected from previous development charges. A further \$245.41 million has been deemed other development-related and represents the share of the capital program exceeds the ten-year historic service level maximum funding cap and maybe be consider for funding from other sources or, to the extend the works benefit growth occurring beyond the 2031 planning horizon, may therefore be recovered under future development charge studies. These amounts have been netted out of the 2022 - 2031 chargeable capital costs.

The total DC eligible cost for recovery over the 2022 -2031 planning period is \$680.80 million. This amount is allocated between the residential and non-residential sectors including retail, industrial/office/institutional (I.O.I) and mixed-use development, to derive unadjusted development charges. Library,



Indoor Recreation, Park Development and Facilities and Waste Diversion services are all deemed to benefit residential development only, while the General Government, Fire, and Public Works are allocated between both sectors based on shares of population and employment growth (see Appendix B for details). Approximately \$637.75 million of the soft services net discounted DC capital program is deemed to benefit residential development. When this amount is divided by the ten year population growth in new units (90,380) an unadjusted charge of \$7,056.29 per capita is derived.

The retail share of the general services capital program totals \$14.11 million and when this amount is divided by the ten-year forecast of new retail nonresidential space growth (627,180 square metres), an unadjusted charge of \$22.48 per square metre is derived. For the mixed-use sector, the total share of the capital program amounts to \$0.24 million and when this amount is divided by the ten-year new mixed-use space growth (33,010 square metres), an unadjusted charge of \$7.27 per square metre is derived. Finally, the total industrial/office/institutional share amounts to \$22.74 million, and when divided by the anticipated growth in I.O.I. space (1,890,060 square metres) the unadjusted charge of \$12.03 square metres is derived.



CITY OF MARKHAM SUMMARY OF UNADJUSTED RESIDENTIAL AND NON-RESIDENTIAL DEVELOPMENT CHARGES 10-YEAR CAPITAL PROGRAM FOR SOFT SERVICES

10 Year Growth in Population in New Units	90,381
10 Year Growth in New Building Space (Sq.M)	2,550,244
Retail Space (sq.m)	627,176
Mixed-use (sq.m.)	33,009
Industrial/Office/Institutional (sq.m.)	1,890,059

			Developm	nent-Related Cap	oital Program (202	2 - 2031)									
	Service	Net Municipal Cost (\$000)	Replacement & Benefit to Existing (\$000)	Prior Growth Shares (\$000)	Available DC Reserves (\$000)	Post-2031 Benefit (\$000)	Total DC Eligible Costs for Recovery (\$000)		sidential Share (\$000)	%	N <u>Retail</u> (\$000)		dential Sha ed-Use (\$000)	are 	I.O.I (\$000)
1.0	GENERAL GOVERNMENT	\$34,099.7	\$0.0	\$0.0	\$0.0	\$0.0	\$34,099.7	65%	\$21,997.7		\$3,759.19	0.3%			\$5,890.11
	Unadjusted Development Charge Per Capita Unadjusted Retail Development Charge Per Sq.M Unadjusted Mixed-Use Development Charge Per Sq.M Unadjusted 1.O.I Development Charge Per Sq.M								\$243.39		\$5.99		\$1.88		\$3.12
2.0	LIBRARY	\$87,883.4	\$0.0	\$0.0	\$5,343.2	\$29,763.3	\$52,776.9	100%	\$52,776.9	0%	\$0.00	0%	\$0.00	0%	\$0.00
	Unadjusted Development Charge Per Capita Unadjusted Retail Development Charge Per Sq.M Unadjusted Mixed-Use Development Charge Per Sq.M Unadjusted I.O.I Development Charge Per Sq.M								\$583.94		\$0.00		\$0.00		\$0.00
3.0) FIRE SERVICES	\$51,537.0	\$0.0	\$0.0	\$4,882.0	\$665.7	\$45,989.4	65%	\$29,667.8	11%	\$5,069.93	0.3%	\$83.86	26.8%	\$7,943.84
	Unadjusted Development Charge Per Capita Unadjusted Retail Development Charge Per Sq.M Unadjusted Mixed-Use Development Charge Per Sq.M Unadjusted 1.O.I Development Charge Per Sq.M								\$328.25		\$8.08		\$2.54		\$4.20
4.0	INDOOR RECREATION	\$348,936.9	\$0.0	\$0.0	\$0.0	\$18,450.0	\$330,486.9	100%	\$330,486.9	0%	\$0.00	0%	\$0.00	0%	\$0.00
	Unadjusted Development Charge Per Capita Unadjusted Retail Development Charge Per Sq.M Unadjusted Mixed-Use Development Charge Per Sq.M Unadjusted I.O.I Development Charge Per Sq.M								\$3,656.60		\$0.00		\$0.00		\$0.00



CITY OF MARKHAM SUMMARY OF UNADJUSTED RESIDENTIAL AND NON-RESIDENTIAL DEVELOPMENT CHARGES 10-YEAR CAPITAL PROGRAM FOR SOFT SERVICES

10 Year Growth in Population in New Units	90,381
10 Year Growth in New Building Space (Sq.M)	2,550,244
Retail Space (sq.m)	627,176
Mixed-use (sq.m.)	33,009
Industrial/Office/Institutional (sq.m.)	1,890,059

		Developn	ent-Related Cap	oital Program (202	2 - 2031)									
Service	Net Municipal Cost	Replacement & Benefit to Existing	Prior Growth Shares	Available DC Reserves	Post-2031 Benefit	Total DC Eligible Costs for Recovery		sidential Share	-	Retail	Mix	dential Sha ed-Use		1.0.1
	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	%	(\$000)	%	(\$000)	%	(\$000)	%	(\$000)
5.0 PARK DEVELOPMENT & FACILITIES Unadjusted Development Charge Per Capita	\$325,989.9	\$0.0	\$0.0	\$28,533.8	\$127,873.8	\$169,582.3	100%	\$169,582.3 \$1,876.30	0%	\$0.00	0%	\$0.00	0%	\$0.00
Unadjusted Retail Development Charge Per Sq.M Unadjusted Mixed-Use Development Charge Per Sq.M Unadjusted I.O.I Development Charge Per Sq.M										\$0.00		\$0.00		\$0.00
6.0 PUBLIC WORKS	\$107,794.3	\$0.0	\$0.0	\$0.0	\$66,592.8	\$41,201.5	65%	\$26,579.1	11%	\$4,542.11	0.3%	\$75.13	26.8%	\$7,116.83
Unadjusted Development Charge Per Capita Unadjusted Retail Development Charge Per Sq.M Unadjusted Mixed-Use Development Charge Per Sq.M Unadjusted I.O.I Development Charge Per Sq.M								\$294.08		\$7.24		\$2.28		\$3.77
7.0 WASTE DIVERSION	\$9,254.0	\$0.0	\$0.0	\$523.8	\$2,066.8	\$6,663.4	100%	\$6,663.4	11%	\$734.58	0.3%	\$18.84	26.8%	\$1,784.20
Unadjusted Development Charge Per Capita Unadjusted Retail Development Charge Per Sq.M Unadjusted Mixed-Use Development Charge Per Sq.M Unadjusted I.O.I Development Charge Per Sq.M								\$73.73		\$1.17		\$0.57		\$0.94
TOTAL 10-YEAR SOFT SERVICES	\$965,495.3	\$0.0	\$0.0	\$39,282.8	\$245,412.3	\$680,800.1		\$637,754.2		\$14,105.8		\$240.0		\$22,735.0
Unadjusted Development Charge Per Capita Unadjusted Retail Development Charge Per Sq.M Unadjusted Mixed-Use Development Charge Per Sq.M Unadjusted I.O.I Development Charge Per Sq.M								\$7,056.29		\$22.48		\$7.27		\$12.03



ii. City-Wide Hard (CWH) Services

City-wide hard services include illumination, intersections, roads, properties acquisition, sidewalks, storm water management, structures, studies, water, special projects (mainly streetscaping), sanitary sewer, and credit agreement projects. The total gross capital cost estimated for City-wide hard services is \$1.83 billion (see Table 8). This infrastructure will be used to service the development of the lands within the City's currently designated urban areas to 2031.

Of the \$1.83 billion gross cost, a local service, or "internal" component, is identified for some of the projects, reflecting the cost that a development would have to pay to provide for required local servicing for a particular subdivision. The City will continue to require these contributions through the normal subdivision process, but excluding them from the development charges calculations ensures that only the oversized portion of costs is shared by other developments. The total recoveries anticipated from these sources are estimated at \$379.41 million. A further \$33.18 million has been identified as a non-growth or benefit to existing share; these costs will be recovered from other municipal funding sources. Another share of the citywide hard program will funded through portions of the projects that are allocated to the area-specific development charges proposed in this study and those shares amount to \$18.50 million. Finally, \$57.03 million has been identified as prior growth shares and \$129.41 million relates to costs that have been removed from this development charge calculation and maybe considered for funding from other mechanism and , to the extent the works benefit growth beyond 2021, will be considered for recovery under subsequent development charge study updates.

The total 2022 -2031 DC recoverable costs for the City-wide hard capital program amount to \$1.21 billion. This amount is allocated to the residential and non-residential sectors based on each sector's share of forecast future population in new units and employment growth to 2031. The total costs eligible for development charge recovery over the 2022 -2031 planning



period is allocated 61.9 per cent, or \$746.67 million, to the residential sector, 11.0 per cent, or \$132.94 million, to the retail sector, 26.8 per cent, or \$322.90 million, to the other industrial/office/institutional sector, and 0.3 per cent, or \$3.41 million, to the mixed-use sector. These allocations are based on shares of growth in population in new units and employment anticipated over the 2022 – 2031 planning horizon. The resulting unadjusted per capita residential charge is \$8,261.38 before cash flow adjustments. The non-residential retail unadjusted charge is \$211.97 per square metre, the industrial/office/institutional is \$170.84 per square metre and the mixed used charge is \$103.27 per square metre.

iii. Area-Specific Services

The proposed area-specific development charges are summarized in Table 9. The table shows the development-related capital cost for area-specific services of \$136.53 million. In total, there is an available reserve fund balance of \$4.76 million for all area-specific charges which have been applied to the area-specific capital programs. Agreement credits in the sum of \$9.86 million have been removed from the total eligible costs included for recovery in the ASDC calculation. In addition, a further \$0.69 million in projects already funded from reserves have also been removed. Therefore, on a collective basis, \$121.21 million is included in the development charges calculation for area-specific services.

The City's intention is to continue to calculate and collect the area-specific development charges on the basis of net developable land area. As shown in Table 9, the calculated area-specific charges range from a low of about \$7,997 per net hectare in Future Urban Area - Robinson Glen to a high of about \$1.49 million per net hectare for Markham Centre – Sciberras. Nevertheless, as shown, there are significantly different servicing costs associated with the various areas as well as the secured financing already approved by the City for some of the areas. Together, these factors contribute to the wide range of area-specific development charges.



Proposed Development Charges are Calculated in Accordance with the DCA | 49

CITY OF MARKHAM CITY-WIDE HARD SERVICES DEVELOPMENT-RELATED PROJECTS SUMMARY 2022 - 2031

			n-Developn Recoverab	nent Charge Ile Costs	Area Specific & Other				Other	City-Wide		Residen	tial S	Share of CWH	Non-Re	esider	itial Retail	Non-Re	esider	ntial I.O.I.	Non-Res	dentia	I Mixed-Use
Service	Total Gross Cos		Costs	Non-Growth (Benefit to Existing)	Development Charges Recovery	Prio	r Growth		lopment- elated		evelopment Charge ecoverable		•	ent Charge rerable			Development overable			Development overable			Development overable
ILLUMINATION	\$ 44.640.000	\$	217,114	\$ 3,721,999	\$ -	\$	-	\$	1,776,168	\$	38,924,718	61.9%	\$	24,101,096	11.0%	\$	4,291,112	26.8%	\$	10,422,482	0.3%	\$	110,029
INTERSECTION	\$ 43,111,194		403,999	\$ 4,272,330	\$ -	\$	-	\$	-	\$	38,434,865	61.9%	\$	23,797,792	11.0%	\$	4,237,110	26.8%	\$	10,291,319	0.3%	\$	108,644
ROADS	\$ 604,538,439	\$ 243,	,553,583	\$ -	\$ -	\$ 1	11,125,155	\$ 7	4,895,469	\$	274,964,232	61.9%	\$	170,250,156	11.0%	\$	30,312,418	26.8%	\$	73,624,417	0.3%	\$	777,241
PROPERTIES ACQUISITION	\$ 266,083,580	\$ 8,	,347,025	\$ -	\$-	\$ 1	12,279,353	\$	420,857	\$	245,036,345	61.9%	\$	151,719,646	11.0%	\$	27,013,128	26.8%	\$	65,610,926	0.3%	\$	692,644
SIDEWALKS	\$ 72,400,047	\$	244,164	\$ 6,036,536	\$-	\$	-	\$	6,036,536	\$	60,082,811	61.9%	\$	37,201,595	11.0%	\$	6,623,608	26.8%	\$	16,087,772	0.3%	\$	169,836
STORM WATER MANAGEMENT	\$ 50,474,837	\$	-	\$ 7,311,950	\$ 16,039,216	\$	3,801,032	\$	-	\$	23,322,638	61.9%	\$	14,440,725	11.0%	\$	2,571,118	26.8%	\$	6,244,869	0.3%	\$	65,926
WATERMAIN	\$ 83,090,298	\$	687,748	\$ 651,348	\$ 364,813	\$	9,861,531	\$	-	\$	71,524,858	61.9%	\$	44,286,190	11.0%	\$	7,884,994	26.8%	\$	19,151,494	0.3%	\$	202,179
STUDIES	\$ 18,003,000	\$	-	\$ -	\$ -	\$	-	\$	-	\$	18,003,000	61.9%	\$	11,146,954	11.0%	\$	1,984,674	26.8%	\$	4,820,483	0.3%	\$	50,889
SPECIAL PROJECTS	\$ 90,505,053	\$ 19,	,218,118	\$ 11,186,286	\$ -	\$	-	\$	7,080,786	\$	53,019,863	61.9%	\$	32,828,415	11.0%	\$	5,844,979	26.8%	\$	14,196,597	0.3%	\$	149,871
STRUCTURES	\$ 542,259,752	\$ 106,	,739,947	\$ -	\$ -	\$ 1	16,062,886	\$ 3	86,697,757	\$	382,759,161	61.9%	\$	236,993,759	11.0%	\$	42,195,872	26.8%	\$	102,487,585	0.3%	\$	1,081,945
SANITARY SEWER	\$ 5,000,000	\$		\$-	\$-	\$	-	\$	2,500,000	\$	2,500,000	61.9%	\$	1,547,930	11.0%	\$	275,603	26.8%	\$	669,400	0.3%	\$	7,067
CREDIT AGREEMENT PROJECTS	\$ 5,989,298	\$	-	\$ -	\$ 2,093,566	\$	3,895,732	\$	-	\$	-	61.9%	\$	-	11.0%	\$	-	26.8%	\$	-	0.3%	\$	-
TOTAL	\$1,826,095,497	\$ 379,4	,411,698	\$ 33,180,448	\$ 18,497,595	\$ 5	57,025,690	\$ 12	9,407,574	\$1,	208,572,492		\$	748,314,258		\$	133,234,618		\$	323,607,344		\$	3,416,272

Adjustments Less Existing Unallocated Reserve Fund Balances Less Credit Agreements Paid Projects Funded From Reserves	(\$2,652,776)	61.9% 61.9% 61.9%	\$0 (\$1,642,525) \$0	11.0% 11.0% 11.0%	\$0 (\$292,446) \$0	26.8% 26.8% 26.8%	\$0 (\$710,307) \$0	0.3% 0.3% 0.3%		\$0 (\$7,499) \$0
TOTAL CITY-WIDE HARD DEVELOPMENT CHARGE RECOVERABLE	\$1,205,919,716		\$ 746,671,734		\$ 132,942,172		\$ 322,897,037		\$ 3,4	408,774
RESIDENTIAL DEVELOPMENT CHARGE Population in New Units 2022 - 2031 Unadjusted Development Charge Per Capita - Before Cash Flow Charge per Single and Semi City-Wide Hard Preliminary Draft Rate Calculation			90,381 \$ 8,261.38 3.73 \$30,811							
NON-RESIDENIAL DEVELOPMENT CHARGE Non-residential Growth in Square Metres (GFA) 2022-2031 Unadjusted Development Charge Per Square Metre of GFA - Before Cash Flow				Retail	627,176 \$ 211.97	1.0.1	1,890,059 \$ 170.84	Mixed-us	« \$	33,009 103.27



CITY OF MARKHAM SUMMARY OF AREA-SPECIFIC DEVELOPMENT CHARGES FOR AREA-SPECIFIC SERVICES 2022-2031

						A	djustments					
Area Name	Area	Gro	wth-Related Costs	Re	eserve Fund Balance		Credits in Agreement	ojects Funded rom Reserve	Total ASDC Recoverable	Land Area (Ha)	AS	DC Charge \$/ha
Yonge Steeles Corridor	1B	\$	12,995,613	\$	582,656	\$	-	\$ () -	\$12,412,957.20	8.46	\$	1,467,253
Armadale	5	\$	1,213,831	\$	675,358	\$	293,988	\$ 87 ,7 7	\$244,484.80	27.60	\$	8,857
Armadale NE	7	\$	521,486	\$	121,641	\$	0 <u>11</u> 5	\$ 82	\$399,844.81	25.81	\$	15,489
PD 1-7	9	\$	7,565,306	\$	1,270,491	\$	3,419,592	\$ 8 <u>1</u>	\$2,875,222.11	3.90	\$	736,670
Rodick/Miller Road Planning District	17	\$	16,541,096	\$	(1,127,770)	\$	-	\$ 	\$17,668,865.79	26.66	\$	662,823
Mount Joy	23	\$	2,705,336	\$	58,018	\$		\$ 	\$2,647,318.21	15.27	\$	173,322
Markham Centre - South Unionville - Helen Ave	42A.1	\$	3,137,837	\$	1,347	\$	2,063,068	\$ 691,311	\$382,111.42	2.16	\$	176,576
Markham Centre	42B	\$	881,933	\$	74,313	\$	1 <u>-</u> 1	\$ 1022	\$807,620.00	100.99	\$	7,997
Markham Centre - Clegg	42B.2	\$	504,473	\$	(199,392)	\$	(<u>-</u>)	\$ -	\$703,865.17	4.16	\$	169,076
Markham Centre - Hotel	42B.4	\$	424,385	\$	(23,525)	\$	-	\$ -	\$447,909.93	0.50	\$	895,820
Markham Centre - South Hwy 7	42B.6	\$	10,582,519	\$	814,222	\$	3,795,207	\$ 2.7	\$5,973,090.18	4.83	\$	1,236,921
Markham Centre - Sciberras	42B.8	\$	6,400,392	\$	(750,458)	\$	1070	\$ 1.75	\$7,150,850.27	4.80	\$	1,490,071
Markham Centre - East Precinct	42B.9	\$	3,125,352	\$	1,663,489	\$	-	\$ 8 1	\$1,461,862.97	6.18	\$	236,433
Cathedral	46	\$	1,041,155	\$	198,589	\$	290,350	\$ -	\$552,215.78	57.99	\$	9,522
York Downs	47B	\$	502,681	\$	379,541	\$		\$ 	\$123,140.04	15.00	\$	8,210
404 North	49	\$	2,034,211	\$	1,022,798	\$	-	\$ -	\$1,011,412.51	55.67	\$	18,167
Future Urban Area	50A	\$	7,587,159	\$	570	\$	-	\$ -	\$7,587,159.00	642.05	\$	11,817
Future Urban Area - Employment Block	50A-1	\$	25,533,491	\$	-	\$	_	\$ -	\$25,533,491.00	220.43	\$	115,835
Future Urban Area - Robinson Glen	50A-2	\$	2,683,382	\$	14-11	\$		\$ -	\$2,683,381.85	154.65	\$	17,351
Future Urban Area - Berczy Glen Block	50A-3	\$	19,150,465	\$	e .(\$	-	\$ 	\$19,150,464.51	93.84	\$	204,076
Future Urban Area - Angus Glen Block	50A-4	\$	11,392,962	\$	-	\$	87	\$. 	\$11,392,962.16	162.04	\$	70,310
Future Urban Area - Robinson Glen - South Block	50A-5	\$	534,985	\$	2	\$	12	\$ -	\$534,985.00	11.09	\$	48,240
Total		\$1	37,060,049		\$4,761,318		\$9,862,205	\$691,311	\$121,745,215			



B. Adjusted Residential and Non-Residential Development Charges

Final adjustments to the "unadjusted" development charge rates summarized above for the city-wide hard and soft services are made through a cash flow analysis. The analysis, details of which are included in the appendices, considers the borrowing cost and interest earnings associated with the timing of expenditures and development charge receipts for each service.

Tables 10 and 11 summarize the results of the adjustment for the residential and non-residential components of the City-wide rates respectively. As shown in Table 10, the adjusted per capita rate for City-wide services increases from the unadjusted rate of \$15,282.87 to \$15,612.81 after the cash flow analysis.

Residential City-wide development charges are proposed to vary by dwelling unit type to reflect their different occupancy factors and resulting demand for services. The proposed residential charges for City-wide services are shown in Table 10. As shown, the proposed residential charge for City-wide services ranges from \$24,958 for small apartments to \$58,228 for single and semi-detached units. The proposed charge for townhouses (and other multiple units) is \$45,139 and \$35,524 for large apartments.

The calculated non-residential development charges rates are presented in Table 11. The calculated adjusted rate for retail commercial development is \$239.82 per square metre, which is an increase of \$6.53 from the unadjusted rate of \$233.29 per square metre. For industrial/office/institutional (I.O.I) development, the adjusted development charge amounts to \$192.40 per square metre which is an increase of \$4.38 from the unadjusted rate of \$188.02 per square metre. Finally, for mixed-use development, the adjusted development charge amounts to \$16.68 per square metre which is an increase of \$3.03 from the unadjusted rate of \$113.65 per square metre.



CITY OF MARKHAM CITY-WIDE DEVELOPMENT CHARGES RESIDENTIAL DEVELOPMENT CHARGES BY UNIT TYPE

	Unadjusted	Adjusted		Residential Charg	e By Unit Type (1)		
Service	Charge Per Capita	Charge Per Capita	Singles & Semis	Townhouses & Multiples	Large Apartments	Small Apartments	Percentage of Charge
General Government	\$233.61	\$240.66	\$898	\$696	\$548	\$385	1.5%
Library	\$583.94	\$598.39	\$2,232	\$1,730	\$1,362	\$957	3.8%
Fire Services	\$315.06	\$330.46	\$1,232	\$955	\$752	\$528	2.1%
Indoor Recreation	\$3,656.60	\$3,649.65	\$13,611	\$10,552	\$8,304	\$5,834	23.4%
Park Development & Facilities	\$1,876.30	\$2,008.68	\$7,491	\$5,807	\$4,570	\$3,211	12.9%
Public Works	\$282.26	\$320.59	\$1,196	\$927	\$729	\$512	2.1%
Waste Diversion	\$73.73	\$80.47	\$300	\$233	\$183	\$129	0.5%
Subtotal City-Wide Soft	\$7,021.49	\$7,228.90	\$26,960	\$20,900	\$16,448	\$11,556	46.3%
City-Wide Hard	\$8,261.38	\$8,383.90	\$31,268	\$24,239	\$19,076	\$13,402	53.7%
Total City-Wide	\$15,282.87	\$15,612.81	\$58,228	\$45,139	\$35,524	\$24,958	100.0%
(1) Based on Persons Per Unit Of:			3.73	2.89	2.28	1.60	



CITY OF MARKHAM CITY-WIDE DEVELOPMENT CHARGES RETAIL, I.O.I. & MIXED-USE NON-RESIDENTIAL DEVELOPMENT CHARGES PER SQUARE METRE

Retail				Indus	trial/Office/Insitu	tional		Mixed-Use			
Service	Unadjusted	Adjusted	Percentage of	Unadjusted	Adjusted	Percentage of	Unadjusted	Adjusted	Percentage of		
	Charge per	Charge per	Charge	Charge per	Charge per	Charge	Charge per	Charge per	Charge		
	Square Metre	Square Metre	Charge	Square Metre	Square Metre	Charge	Square Metre	Square Metre	Charge		
General Government	\$5.99	\$6.52	2.7%	\$4.83	\$5.23	2.7%	\$2.92	\$3.03	2.6%		
Library	\$0.00	\$0.00	0.0%	\$0.00	\$0.00	0.0%	\$0.00	\$0.00	0.0%		
Fire Services	\$8.08	\$8.54	3.6%	\$6.52	\$6.85	3.6%	\$3.94	\$4.16	3.6%		
Indoor Recreation	\$0.00	\$0.00	0.0%	\$0.00	\$0.00	0.0%	\$0.00	\$0.00	0.0%		
Park Development & Facilities	\$0.00	\$0.00	0.0%	\$0.00	\$0.00	0.0%	\$0.00	\$0.00	0.0%		
Public Works	\$7.24	\$8.28	3.5%	\$5.84	\$6.64	3.5%	\$3.53	\$4.04	3.5%		
Waste Diversion	\$0.00	\$0.00	0.0%	\$0.00	\$0.00	0.0%	\$0.00	\$0.00	0.0%		
Subtotal City-Wide Soft per Sq.M.	\$21.32	\$23.35	9.7%	\$17.18	\$18.72	9.7%	\$10.39	\$11.22	9.6%		
City-Wide Hard	\$211.97	\$216.47	90.3%	\$170.84	\$173.68	90.3%	\$103.27	\$105.46	90.4%		
Total City-Wide	\$233.29	\$239.82	100.0%	\$188.02	\$192.40	100.0%	\$113.65	\$116.68	100.0%		



C. Comparison of Calculated and Existing Development Charges

Tables 12 present a comparison of calculated City-wide hard and soft residential development charges with the City's current charges (as at January, 2022). Table 13, 14 and 15 presents a comparison of the city-wide soft non-residential development charges for retail, industrial/office/institutional and mixed-used with the City's current charges. A comparison to the city-wide hard has not been included as it is now calculated on a square metre basis rather then net developable land area.

Table 12 shows that the calculated charge, by service, per single/semi detached unit of \$58,228 will produce an increase of \$15,290 (36 per cent) over the present development charge of \$42,938.

Table 13 shows that the calculated charge, by service, for retail development of \$239.82 per square metre will produce an increase of \$62.05 per square metre (35 per cent) over the present development charge of \$177.77 per square metre.

Similarly, Table 14 identifies a calculated industrial/office/institutional development charge of \$192.40 per square metre, which represents an increase of \$56.62 per square metre (42 per cent) over the current charge of \$135.78 per square metre.

Finally, Table 15 presents the calculated mixed-use charge at \$116.68 per square metre over the current charge of \$86.61 per square metre, an increase of \$30.07 (35 per cent).



CITY OF MARKHAM COMPARISON OF CURRENT AND CALCULATED RESIDENTIAL DEVELOPMENT CHARGES

	Current	Calculated				
Service	Residential	Residential	Difference in Charge			
	Charge / SDU	Charge / SDU				
General Government	\$850	\$898	\$48	6%		
Library	\$2,032	\$2,232	\$200	10%		
Fire Services	\$1,068	\$1,232	\$164	15%		
Indoor Recreation	\$7,677	\$13,611	\$5,934	77%		
Park Development & Facilities	\$6,307	\$7,491	\$1,184	19%		
Public Works	\$841	\$1,196	\$355	42%		
Parking*	\$45	\$0	(\$45)	-100%		
Waste Diversion	\$268	\$300	\$32	12%		
Subtotal City-Wide Soft	\$19,088	\$26,960	\$7,872	41%		
City-Wide Hard	\$23,850	\$31,268	\$7,418	31%		
Total City-Wide	\$42,938	\$58,228	\$15,290	36%		



CITY OF MARKHAM COMPARISON OF CURRENT AND CALCULATED NON-RESIDENTIAL DEVELOPMENT CHARGES (RETAIL)

	Non-Residential (\$/Square Metre)					
	Current	Calculated				
Service	Non-Res Retail	Non-Res Retail	Difference	e in Charge		
	Charge	Charge				
General Government	\$5.68	\$6.52	\$0.84	15%		
Library	\$0.00	\$0.00	\$0.00	0%		
Fire Services	\$7.13	\$8.54	\$1.41	20%		
Indoor Recreation	\$0.00	\$0.00	\$0.00	0%		
Park Development & Facilities	\$0.00	\$0.00	\$0.00	0%		
Public Works	\$5.62	\$8.28	\$2.66	47%		
Parking*	\$0.30	\$0.00	(\$0.30)	-100%		
Waste Diversion	\$0.00	\$0.00	\$0.00	0%		
Subtotal City-wide Soft per Sq.M.	\$18.73	\$23.35	\$4.62	25%		
City-wide Hard	\$159.04	\$216.47	\$57.43	36%		
Total City-Wide	\$177.77	\$239.82	\$62.05	35%		



CITY OF MARKHAM COMPARISON OF CURRENT AND CALCULATED NON-RESIDENTIAL DEVELOPMENT CHARGES (I.O.I)

		Non-Residential (\$/Square Metre)							
	Current	Calculated							
Service	Non-Res IOI	Non-Res IOI	Difference in Charge						
	Charge	Charge							
General Government	\$4.34	\$5.23	\$0.89	21%					
Library	\$0.00	\$0.00	\$0.00	0%					
Fire Services	\$5.44	\$6.85	\$1.41	26%					
Indoor Recreation	\$0.00	\$0.00	\$0.00	0%					
Park Development & Facilities	\$0.00	\$0.00	\$0.00	0%					
Public Works	\$4.29	\$6.64	\$2.35	55%					
Parking*	\$0.23	\$0.00	(\$0.23)	-100%					
Waste Diversion	\$0.00	\$0.00	\$0.00	0%					
Subtotal City-wide Soft per Sq.M.	\$14.30	\$18.72	\$4.42	31%					
City-wide Hard	\$121.48	\$173.68	\$52.20	43%					
Total City-Wide	\$135.78	\$192.40	\$56.62	42%					



CITY OF MARKHAM COMPARISON OF CURRENT AND CALCULATED NON-RESIDENTIAL DEVELOPMENT CHARGES (MIXED-USE)

	Non-Residential (\$/Square Metre)					
	Current	Calculated				
Service	Non-Residential	Non-Residential	Difference	e in Charge		
	Mixed-Use Charge	Mixed-Use Charge				
General Government	\$2.77	\$3.03	\$0.26	9%		
Library	\$0.00	\$0.00	\$0.00	0%		
Fire Services	\$3.48	\$4.16	\$0.68	20%		
Indoor Recreation	\$0.00	\$0.00	\$0.00	0%		
Park Development & Facilities	\$0.00	\$0.00	\$0.00	0%		
Public Works	\$2.74	\$4.04	\$1.30	47%		
Parking*	\$0.14	\$0.00	(\$0.14)	-100%		
Waste Diversion	\$0.00	\$0.00	\$0.00	0%		
Subtotal City-wide Soft per Sq.M.	\$9.13	\$11.22	\$2.09	23%		
City-wide Hard	\$77.48	\$105.46	\$27.98	36%		
Total City-Wide	\$86.61	\$116.68	\$30.07	35%		



7. Long-Term Capital and Operating Costs

This section provides a brief examination of the long-term capital and operating costs for the capital facilities and infrastructure to be included in the development charges by-law. This examination is required as one of the features of the *Development Charges Act, 1997.*

A. Net Operating Costs for the City's Services Estimated to Increase by \$53.08 Million over the Forecast Period

Table 16 summarizes the estimated increase in net operating costs that the City will experience for additions associated with the planned capital program. These estimates are based on average costs informed based on the City's current operating costs.

As shown in Table 16, by 2032, the City's net operating costs are estimated to increase by \$53.08 million. Significant increases in net operating costs will be experienced as new facilities such as new indoor recreation centres, proposed new community centres and new libraries are opened. Operating and maintenance costs will increase also as additions to the City's road network and parkland and playing fields are made.

Given all projects included in the City-wide soft services capital program are fully related to new growth, no need for non-development charge sources have been idenfitied.



CITY OF MARKHAM SUMMARY OF LONG-TERM CAPITAL AND OPERATING COST IMPACTS FOR GENERAL SERVICES (in thousands of constant dollars)

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
Net Operating Impacts (1)											
General Government	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	
Library	\$1,500.0	\$1,500.0	\$1,500.0	\$1,500.0	\$3,750.0	\$3,750.0	\$3,750.0	\$3,750.0	\$5,250.0	\$5,250.0	
Fire Services	\$4,600.0	\$9,200.0	\$9,200.0	\$13,800.0	\$13,800.0	\$13,800.0	\$13,800.0	\$13,800.0	\$13,800.0	\$21,160.0	
Indoor Recreation	\$0.0	\$0.0	\$200.0	\$400.0	\$1,200.0	\$1,400.0	\$1,400.0	\$2,180.0	\$5,580.0	\$5,580.0	
Park Development & Facilities	\$571.7	\$874.9	\$2,193.6	\$2,880.8	\$4,239.0	\$4,981.4	\$5,834.6	\$6,126.7	\$6,365.2	\$6,519.8	
Public Works	\$54.6	\$1,284.1	\$1,359.3	\$2,062.1	\$2,077.8	\$2,094.2	\$2,120.1	\$2,136.2	\$2,155.9	\$2,155.9	
Waste Diversion	\$175.6	\$355.6	\$540.3	\$729.7	\$924.0	\$1,121.0	\$1,323.0	\$1,530.1	\$1,742.5	\$1,960.4	
City-Wide Hard	\$936.4	\$1,896.7	\$2,881.7	\$3,891.9	\$4,927.8	\$5,978.6	\$7,056.1	\$8,160.7	\$9,293.5	\$10,455.2	
NET OPERATING IMPACTS	\$7,838.2	\$15,111.2	\$17,874.8	\$25,264.5	\$30,918.5	\$33,125.2	\$35,283.7	\$37,683.8	\$44,187.1	\$53,081.3	n/a
Long-term Capital Impact (1)											
Total Net Cost	\$126,215.6	\$91,938.0	\$79,525.4	\$94,115.7	\$156,298.9	\$46,872.4	\$46,116.6	\$75,104.5	\$239,412.0	\$9,896.0	\$965,495.3
Net Cost From Development Charges	\$92,173.9	\$60,817.2	\$77,597.7	\$59,502.6	\$128,719.9	\$12,794.3	\$2,165.0	\$59,689.5	\$185,175.0	\$2,165.0	\$680,800.1
Prior Growth	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
DC Reserve Balances (2)	\$34,041.6	\$3,313.5	\$1,927.7	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$39,282.8
Portion for Post-2030 Development (3)	\$0.0	\$27,807.3	\$0.0	\$34,613.1	\$27,579.1	\$34,078.0	\$43,951.6	\$15,415.0	\$54,237.1	\$7,731.0	\$245,412.3
Funding From Non-DC Sources											
Replacement	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
FUNDING FROM NON-DC SOURCES	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
TOTAL NET OPERATING & CAPITAL IMPACTS	\$7,838.2	\$15,111.2	\$17,874.8	\$25,264.5	\$30,918.5	\$33,125.2	\$35,283.7	\$37,683.8	\$44,187.1	\$53,081.3	n/a

Notes:

(1) See Appendix F

(2) Existing development charge reserve fund balances collected from growth prior to 2022 are applied to fund initial projects in development-related capital forecast

(3) Post 2032 development-related net capital costs may be eligible for development charge funding in future DC by-laws



8. Cost of Growth Analysis

The *Development Charges Act* now requires that municipalities complete an Asset Management Plan before the passing of a development charges bylaw. A key function of the Asset Management Plan is to demonstrate that all assets proposed to be funded under the development charges by-law are financially sustainable over their full life cycle. Further details relating to the Asset Management Plan are discussed in Appendix G.

A. Annual Capital Provisions Will Reach \$48.83 Million by 2032

Table 17 summarizes the annual capital provisions required to replace the capital infrastructure proposed to be funded under the development charges by-law. This estimate is based on information obtained through discussions with municipal staff regarding useful life assumptions and the capital cost of acquiring and/or emplacing each asset.

Table 17 states that, by 2032, the City will need to fund an additional \$48.83 million per annum in order to properly fund the full life-cycle costs of the new city-wide soft and City-wide hard assets supported under this development charges by-law.

The calculated annual funding provision should be considered within the context of the City's projected growth; over the next ten years (to 2031) the City is projecting an increase of approximately 32,670 total private dwellings units as well as roughly 55,590 new employees. This growth will have the effect of increasing the overall assessment base and additional user fee and charges revenues to offset the capital asset provisions required to replace the infrastructure proposed to be funded under the development charges by-law.



In addition, as part of the annual budget update the City also undertakes analysis of the Life-cycle Reserve Fund. The analysis includes anticipated funding requirements and potential funding shortfalls resulting from inflation, past growth and new assets. Funding requirements are examined over a 25 year period and mitigation measures are proposed for Council's consideration. Examples of mitigating measures that have been used historically in the City include increased revenue sources (including projected dividends), allocation of Federal Gas Tax funding towards lifecycle costs and transferring additional funds into the Life-cycle Reserve Fund.

The calculated annual provisions identified are considered to be financially sustainable as it is expected that the increased capital asset management requirements can be absorbed by the tax and user base over the long-term.



CITY OF MARKHAM ANNUAL ASSET MANAGEMENT PROVISION BY 2032

Service		- 2031 Program	d AMP Annual on by 2032	
	DC Related	Non-DC Related*	DC Related	Non-DC Related*
General Government	\$34,099,685	\$0	\$0	\$0
Library	\$58,120,079	\$29,763,300	\$2,655,609	\$1,130,342
Fire Services	\$50,871,342	\$665,686	\$1,178,482	\$19,680
Indoor Recreation	\$330,486,932	\$18,450,000	\$6,489,988	\$545,443
Park Development & Facilities	\$198,116,166	\$127,873,767	\$6,170,758	\$5,318,051
Public Works	\$41,201,500	\$66,592,795	\$431,808	\$1,667,971
Waste Diversion	\$7,187,249	\$2,066,763	\$245,717	\$337,308
City-Wide Hard	\$1,265,598,182	\$560,497,315	31,660,320	\$19,615,571
TOTAL	\$1,985,681,136	\$805,909,625	\$48,832,682	\$28,634,367

* Includes costs that will be recovered under future development charges studies (i.e. other development-related).



9. Development Charge Administration

A. Development Charges Policies and Practices

- There are not substantive changes recommended to the City's current development charge calculation approach, rate structure or policiesIt is recommended that present practices regarding collection of development charges and by-law administration continue to the extent possible, having regard to any requirements of the DCA.
- As required under the DCA, the City should codify any rules regarding application of the by-laws and exemptions within the development charges by-laws proposed for adoption.
- It is recommended that the City continue to actively encourage the use of front-ending agreements or developer agreements (and services-in-lieu arrangements), whichever are practical and desirable by the development industry and the City.
- It is recommended that the by-laws permit the payment of development charges in cash or through services-in-lieu agreements. The municipality is not obligated to enter into services-in-lieu agreements.
- It is recommended that Council adopt the development-related capital forecast for city-wide and area-specific services included in this Background Study, subject to annual review through the City's normal capital budget process.

B. Development Charges By-law Provisions

The City is proposing to modify current the development charges by-laws to reflect recent legislative changes and updating of defitions to correspond with other City documents as well as accounting for legislative changes.. The proposed draft by-laws will be made available, under separate cover, a minimum of two weeks in advance of the statutory public meeting.



Appendix A Development Forecast



Appendix A: Development Forecast

This appendix provides the details of the development forecast used to prepare the 2022 Development Charges (DC) Background Study for the City of Markham. The forecast method, key assumptions and results are presented in the following tables:

Historical Development

Table A-1	Historical Population, Occupied Dwellings and Employment
	Summary

- Table A-2
 Historical Annual Housing Completions (CMHC)
- Table A-3 Historical Annual Residential Building Permits
- Table A-4Historical Occupied Households by Unit Type
- Table A-5Historical Households by Period of Construction ShowingHousehold Size

Forecast Development

Table A-6	Forecast of Occupied Household and Employment Growth
	Summary

- Table A-7
 Forecast of Occupied Households by Unit Type
- Table A-8 Growth in Households by Unit Type
- Table A-9Forecast Population in New Households by Unit Type
- Table A-10 Forecast Place of Work Employment
- Table A-11Forecast Non-Residential Space (Square Metres of Gross Floor
Area)

The forecasts of population, households and employment are based on the 2031 targets for the City as identified in the York Region 2017 Development Charges Background Study, which reflects a 45 per cent intensification scenario. The residential and non-residential forecasts incorporate recent historical data and has been informed through discussions with City staff.



A. Forecast Approach and Key Assumptions

The *Development Charges Act (DCA)* requires the City to estimate "the anticipated amount, type and location of development" for which development charges may be imposed. The development forecast must cover both residential and non-residential development and be specific enough with regards to quantum, type, location and timing of development to allow the City to prepare a reasonable development-related capital program.

A "Census-based" definition of population is used for the purpose of the Development Charges (DC) Study. This definition does not include the Census net undercoverage, which is typically included in the definition of "total" population commonly used in municipal planning documents.

The forecast is based on Census years and is translated into the time periods required for DC purposes, generally pro-rating the census periods to the DC time period. A ten-year development forecast, from mid-year 2022 to mid-year 2031, has been used for all the DC eligible City-wide soft and Citywide hard services.

B. Historical Development in the City

Historical growth and development figures presented here are based on Statistics Canada Census data, Canada Mortgage Housing Corporation (CMHC) housing market information, and City building permit and development application data. For development charges purposes, the tenyear period of 2012 to 2021 is used for calculating historical service levels.

The City of Markham has experienced steady population growth over the last ten years. As shown in Table A-1, the City's population increased from 306,970 people in 2012 to an estimated 354,590 in 2021 which represents an increase of 16 per cent. The number of occupied dwelling units in the City



also increased during the ten-year historical period, although at a much less steady pace. Increasing from 92,920 in 2012 to 114,230 in 2021, the City of Markham has realized a 23 per cent increase in occupied households since 2012. The difference between the growth rates of population and occupied dwelling units is the result of a decline in the average number of persons residing in housing units.

Historical employment figures are also shown in Table A-1 and are based on Statistics Canada place of work data. This data records where people work rather than their place of residence. The employment figures used for development charge calculations include workers with no fixed place of work, but exclude *work at home* employment. Similar to population, the City experienced an annual employment growth of 2 per cent over the 2012 to 2021 Census period. Over the ten-year historical period, employment in the City has grown from 135,100 employees in 2012 to 160,210 employees in 2021 which represents an increase of 19 per cent. The City's activity rate (the ratio of employment to population) has also remained stable at 44 per cent between 2012 and 2016; the activity rate increased modestly reaching 45.5 per cent in 2021.

Details on historical housing unit growth in the City as well as historical occupied households are provided in Tables A-2 (housing completions), A-3 (building permits issued), and A-4 (historical occupied households). The information in Table A-2 and A-4 is sourced from Canada Mortgage and Housing Corporation *Housing Market Information*. Overall, the dominant type of housing in Markham constructed since 2012 has been apartment units at 46 per cent. This is closely followed by single and semi-detached units (31 per cent) and rows and other multiple dwelling units (23 per cent).

Table A-5 provides details on historical occupancy patterns in the City. The overall average occupancy level in Markham for recently constructed single and semi-detached units, constructed between 2006 and 2016, is 3.73 persons per housing unit (PPU). Average PPUs for recently constructed row

housing, large apartments, (defined as greater than 700 square feet) and small apartments are 2.89, 2.28, and 1.60, respectively.

Development charges are levied on residential development as a charge per new unit. Therefore, for the residential forecast, a projection of both the *population growth (sometimes referred to as "net population" growth)* as well as the *population in new housing units*, is required.

Population growth determines the need for additional facilities and provides the foundation for the development-related capital program. When calculating the development charge, however, the development-related net capital costs are spread over the total additional population that occupy new housing units. This *population in new units* represents the population from which development charges will be collected.

Development charges are levied on non-residential development as a charge per unit of gross floor area (GFA). The non-residential forecast includes both a projection of employment growth as well as a projection of the floor space associated with employment growth in the City.

i. Residential Development Forecast

The residential development forecast is based on forecasts of population and households, consistent with the York Region 45 per cent intensification scenario used in the Region's 2017 Development Charge Background Study update. The population and household growth determines the need for additional facilities and provides the foundation for the development-related capital program. Tables A-6, A-7, and A-8 summarize the population, household and employment growth forecast. The tables show that the City's population is forecast to increase by roughly 90,070 over the ten-year planning period to 2031. The number of occupied dwellings will increase by 32,670 with the majority of growth expected to be among apartment units (41 per cent); the number of employees is projected to increase by 55,590 over the same period.

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In addition to the net population forecast, a forecast of "population in new units" that will result from the addition of new housing units has been made (see Table A-9). Population growth in new units is estimated by applying the following PPUs to the housing unit forecast: 3.73 for single and semidetached units; 2.89 for rows and other multiples; and 1.92 for apartments. The forecasted persons in newly constructed units are based upon the historical time series of population growth in housing in the last ten-year census period (2006-2016). In total, 90,380 is the forecasted population in new dwelling units over the ten-year planning period.

ii. Non-Residential Development Forecast

Non-residential development charges are calculated on a per unit of gross floor area (GFA) basis. Therefore, as per the *DCA*, a forecast of nonresidential building space has been developed. As with the residential forecast, a ten-year development forecast, from mid-year 2022 to mid-year 2031, has been used for all the development charge eligible City-wide soft and hard services.

Employment densities have been used to convert the employment forecast into building space estimates. The following densities, by employment type, have been utilized in this study:

Retail:	40.0 square metres per employee
Mixed-Use Retail:	40.0 square metres per employee
Institutional:	66.7 square metres per employee
Industrial Employment Land:	80.0 square metres per employee
Office:	25.0 square metres per employee

The employment and GFA forecasts are provided in Tables A-10 and A-11. The total GFA growth is forecast at 2.55 million square metres over the tenyear period with an accompanying employment growth of 55,590 (excluding work at home employment).



APPENDIX A

TABLE A-1

CITY OF MARKHAM

HISTORICAL POPULATION, OCCUPIED DWELLINGS & EMPLOYMENT SUMMARY

	Census	Annual	Occupied	Annual	Av. Household	Place of Work	Annual	
Mid-Year	Population	Growth	Households	Growth	Size (PPU)	Employment	Growth	Activity Rate
2012	306,973	5,264	92,921	2,386	3.30	135,104	2,179	44.0%
2013	312,329	5,356	95,843	2,922	3.26	137,357	2,253	44.0%
2014	317,779	5,450	99,568	3,725	3.19	139,685	2,328	44.0%
2015	323,324	5,545	102,583	3,015	3.15	142,092	2,407	43.9%
2016	328,966	5,642	102,680	97	3.20	144,582	2,490	44.0%
2017	333,938	4,972	103,667	987	3.22	147,517	2,935	44.2%
2018	338,985	5,047	106,132	2,465	3.19	150,539	3,022	44.4%
2019	344,109	5,124	107,278	1,146	3.21	153,654	3,114	44.7%
2020	349,310	5,201	108,598	1,320	3.22	156,862	3,209	44.9%
2021	354,589	5,279	114,233	5,635	3.10	160,210	3,348	45.2%
Growth 2012 - 2021		52,880		23,698			27,285	

Source: Statistics Canada, Census of Canada



APPENDIX A TABLE A-2 CITY OF MARKHAM HISTORICAL ANNUAL HOUSING COMPLETIONS (CMHC)

	СМНС /	Annual Hou	sing Completi	ons	Shares by Unit Type					
Year	Singles/Semis	Rows	Apts.	Total	Singles/Semis	Rows	Apts.	Total		
2012	1,511	857	18	2,386	63%	36%	1%	100%		
2013	1,426	776	720	2,922	49%	27%	25%	100%		
2014	962	476	2,287	3,725	26%	13%	61%	100%		
2015	800	464	1,751	3,015	27%	15%	58%	100%		
2016	232	133	1,280	1,645	14%	8%	78%	100%		
2017	318	283	386	987	32%	29%	39%	100%		
2018	170	749	1,546	2,465	7%	30%	63%	100%		
2019	294	298	554	1,146	26%	26%	48%	100%		
2020	67	665	588	1,320	5%	50%	45%	100%		
Growth 2012 - 2021	6,825	5,075	10,013	21,913	31%	23%	46%	100%		

Source: Canada Mortage and Housing Corporation (CMHC), Housing Market Information

APPENDIX A TABLE A-3 CITY OF MARKHAM HISTORICAL ANNUAL RESIDENTIAL BUILDING PERMITS

		Building	Permits		Building Permits					
Year	Singles/Semis	Rows	Apts.	Total	Singles/Semis	Rows	Apts.	Total		
2012	1,458	1,272	2,261	4,991	29%	25%	45%	100%		
2013	1,187	434	1,081	2,702	44%	16%	40%	100%		
2014	843	444	1,466	2,753	31%	16%	53%	100%		
2015	434	645	690	1,769	25%	36%	39%	100%		
2016	295	625	1,433	2,353	13%	27%	61%	100%		
2017	131	510	131	772	17%	66%	17%	100%		
2018	298	1,021	1,125	2,444	12%	42%	46%	100%		
2019	47	36	38	121	39%	30%	31%	100%		
2020	241	397	398	1,036	23%	38%	38%	100%		
Growth 2012 - 2021	6,571	6,013	9,554	22,138	30%	27%	43%	100%		

Source: Statistics Canada

APPENDIX A TABLE A-4 CITY OF MARKHAM HISTORICAL OCCUPIED HOUSEHOLDS BY UNIT TYPE

		Occupied H		Shares By	Unit Type			
Mid-Year	Singles/Semis	Rows	Apartments	Total	Singles/Semis	Rows	Apartments	Total
2012	64,646	11,792	16,483	92,921	70%	13%	18%	100%
2013	66,072	12,568	17,203	95,843	69%	13%	18%	100%
2014	67,034	13,044	19,490	99,568	67%	13%	20%	100%
2015	67,834	13,508	21,241	102,583	66%	13%	21%	100%
2016	67,415	13,970	21,295	102,680	66%	14%	21%	100%
2017	67,733	14,253	21,681	103,667	65%	14%	21%	100%
2018	67,903	15,002	23,227	106,132	64%	14%	22%	100%
2019	68,197	15,300	23,781	107,278	64%	14%	22%	100%
2020	68,264	15,965	24,369	108,598	63%	15%	22%	100%
2021	69,926	17,806	26,501	114,233	61%	16%	23%	100%

Source: Statistics Canada, Census of Canada and Canada Mortgage and Housing Corporation (CMHC), Housing Market Information

APPENDIX A

TABLE A-5

CITY OF MARKHAM HISTORICAL HOUSEHOLDS BY PERIOD OF CONSTRUCTION SHOWING HOUSEHOLD SIZE

					Period of Cor	struction					Period of Construction Summaries				
Dwelling Unit Type	Pre 1945	1946-1960	1961-1970	1971-1980	1981-1990	1991-1995	1996-2000	2001-2005	2006-2010	2011-2016	Pre 2006	2006-2016	Total		
Singles															
-	1.580	4.100	11.665	23.850	54.790	14.665	25.525	36.475	25.220	16,465	172.650	41.685	214.335		
Household Population															
Households	525	1,465	4,040	7,765	16,065	3,980	6,660	9,505	6,455	4,440	50,005	10,895	60,900		
Household Size	3.01	2.80	2.89	3.07	3.41	3.68	3.83	3.84	3.91	3.71	3.45	3.83	3.52		
Semis															
Household Population	0	145	320	1,415	865	130	1,485	7,155	5,445	4,915	11,515	10,360	21,875		
Households	10	45	105	465	255	45	475	2,045	1,510	1,550	3,445	3,060	6,505		
Household Size	n/a	3.22	3.05	3.04	3.39	2.89	3.13	3.50	3.61	3.17	3.34	3.39	3.36		
Singles and Semis															
Household Population	1,580	4,245	11,985	25,265	55,655	14,795	27,010	43,630	30,665	21,380	184,165	52,045	236,210		
Households	535	1,510	4,145	8,230	16,320	4,025	7,135	11,550	7,965	5,990	53,450	13,955	67,405		
Household Size	2.95	2.81	2.89	3.07	3.41	3.68	3.79	3.78	3.85	3.57	3.45	3.73	3.50		
Rows															
	70	235	1,145	5,260	1,770	1 1 2 0	5,480	0 5 6 0	7,840	9,030	24 650	16,870	41,520		
Household Population						1,130		9,560			24,650				
Households	25	105	410	1,950	635	400	1,860	3,090	2,660	3,175	8,475	5,835	14,310		
Household Size	2.80	2.24	2.79	2.70	2.79	2.83	2.95	3.09	2.95	2.84	2.91	2.89	2.90		
Apartments (excl. Dup	lexes): Bacheld	or or 1BR													
Household Population	80	175	390	550	585	245	315	900	1,960	4,570	3,240	6,530	9.770		
Households	55	120	265	420	435	185	225	630	1,260	2,825	2,335	4,085	6,420		
Household Size	1.45	1.46	1.47	1.31	1.34	1.32	1.40	1.43	1.56	1.62	1.39	1.60	1.52		
Apartments (excl. Dup	lexes): 2BR or l	more													
Household Population	135	350	1,150	2,575	2,725	1,495	995	1,870	4,025	4,280	11,295	8,305	19,600		
Households	90	150	540	1,155	1,285	685	470	795	1,760	1,890	5,170	3,650	8,820		
Household Size	1.50	2.33	2.13	2.23	2.12	2.18	2.12	2.35	2.29	2.26	2.18	2.28	2.22		
Apartments (excl. Dup	(avaa) Tatal														
Household Population		525	1 5 4 0	3,125	3,310	1.740	1,310	2.770	E 0.0E	0.050	14 5 25	14.025	29.370		
	215		1,540			1		'	5,985	8,850	14,535	14,835	,		
Households	145	270	805	1,575	1,720	870	695	1,425	3,020	4,715	7,505	7,735	15,240		
Household Size	1.48	1.94	1.91	1.98	1.92	2.00	1.88	1.94	1.98	1.88	1.94	1.92	1.93		
Duplexes															
Household Population	60	340	730	2,270	8,460	2,260	2,525	1,655	730	550	18,300	1,280	19,580		
Households	40	155	230	700	2,275	700	685	475	245	165	5,260	410	5,670		
Household Size	1.50	2.19	3.17	3.24	3.72	3.23	3.69	3.48	2.98	3.33	3.48	3.12	3.45		
A// //n/to															
All Units	1.025	E 24E	15 400	25.020	60 10F	10.025	26.225	E7 C1E	45 220	20.010	241 650	95.020	226.690		
Household Population	1,925	5,345	15,400	35,920	69,195	19,925	36,325	57,615	45,220	39,810	241,650	85,030	326,680		
Households	745	2,040	5,590	12,455	20,950	5,995	10,375	16,540	13,890	14,045	74,690	27,935	102,625		
Household Size	2.58	2.62	2.75	2.88	3.30	3.32	3.50	3.48	3.26	2.83	3.24	3.04	3.18		

Note: Population and household values in this table are based on National Household Survey response rates and may differ from Census values

Source: Statistics Canada, 2011 National Household Survey Special Run.



APPENDIX A TABLE A-6 CITY OF MARKHAM FORECAST POPULATION, HOUSEHOLD & EMPLOYMENT GROWTH SUMMARY

	Census	Annual	Total Occupied	Annual	Av. Household	Place of Work	Annual	
Mid-Year	Population	Growth	Dwellings	Growth	Size (PPU)	Employment	Growth	Activity Rate
2022	362,707	8,118	117,159	2,926	3.10	164,906	4,696	45.5%
2023	371,010	8,303	120,160	3,001	3.09	169,773	4,867	45.8%
2024	379,504	8,494	123,238	3,078	3.08	174,819	5,046	46.1%
2025	388,192	8,688	126,395	3,157	3.07	180,049	5,230	46.4%
2026	397,079	8,887	129,632	3,237	3.06	185,473	5,424	46.7%
2027	406,169	9,090	132,916	3,284	3.06	191,099	5,626	47.0%
2028	415,467	9,298	136,283	3,367	3.05	196,935	5,836	47.4%
2029	424,978	9,511	139,735	3,452	3.04	202,990	6,055	47.8%
2030	434,707	9,729	143,275	3,540	3.03	209,274	6,284	48.1%
2031	444,660	9,953	146,905	3,630	3.03	215,800	6,526	48.5%
Growth 2022 - 2031		90,071		32,673			55,590	

Source: York Region 2017 DC Study (45% Intensification Scenario), Hemson Consulting 2022

APPENDIX A TABLE A-7 CITY OF MARKHAM FORECAST OF OCCUPIED HOUSEHOLDS BY UNIT TYPE

		Occupied	Households	Shares By Unit Type				
Mid-Year	Singles/Semis	Rows	Apartments	Total	Singles/Semis	Rows	Apartments	Total
2022	70,871	18,599	27,689	117,159	60%	16%	24%	100%
2023	71,839	19,412	28,909	120,160	60%	16%	24%	100%
2024	72,833	20,246	30,159	123,238	59%	16%	24%	100%
2025	73,852	21,102	31,442	126,395	58%	17%	25%	100%
2026	74,896	21,979	32,757	129,632	58%	17%	25%	100%
2027	75,956	22,869	34,091	132,916	57%	17%	26%	100%
2028	77,043	23,781	35,459	136,283	57%	17%	26%	100%
2029	78,157	24,716	36,861	139,735	56%	18%	26%	100%
2030	79,300	25,676	38,299	143,275	55%	18%	27%	100%
2031	80,472	26,660	39,774	146,905	55%	18%	27%	100%

APPENDIX A

TABLE A-8

CITY OF MARKHAM

GROWTH IN HOUSEHOLDS BY UNIT TYPE

	Anı	nual Growth in Oc	cupied Househo	lds		Shares By	Unit Type	
Mid-Year	Singles/Semis	Rows & Other Multiples	Apartments	Total	Singles/Semis	Rows & Other Multiples	Apartments	Total
2022	944	793	1,189	2,926	32%	27%	41%	100%
2023	969	813	1,219	3,001	32%	27%	41%	100%
2024	993	834	1,250	3,078	32%	27%	41%	100%
2025	1,019	855	1,283	3,157	32%	27%	41%	100%
2026	1,045	877	1,315	3,237	32%	27%	41%	100%
2027	1,060	890	1,334	3,284	32%	27%	41%	100%
2028	1,087	912	1,368	3,367	32%	27%	41%	100%
2029	1,114	935	1,402	3,452	32%	27%	41%	100%
2030	1,143	959	1,438	3,540	32%	27%	41%	100%
2031	1,172	984	1,475	3,630	32%	27%	41%	100%
Growth 2022 - 2031	10,545	8,853	13,274	32,673	32%	27%	41%	100%

Source: York Region 2017 DC Study (45% Intensification Scenario), Hemson Consulting 2022

APPENDIX A

TABLE A-9

CITY OF MARKHAM

FORECAST POPULATION IN NEW HOUSEHOLD BY UNIT TYPE

Mid-Year	Singles/Semis	Rows & Other Multiples	Apartments	Total	Singles/Semis	Rows & Other Multiples	Apartments	Population in New Dwellings
2022	3.73	2.89	1.92	2.77	3,522	2,292	2,280	8,094
2023	3.73	2.89	1.92	2.77	3,612	2,351	2,338	8,301
2024	3.73	2.89	1.92	2.77	3,705	2,411	2,398	8,514
2025	3.73	2.89	1.92	2.77	3,800	2,473	2,460	8,733
2026	3.73	2.89	1.92	2.77	3,897	2,536	2,522	8,955
2027	3.73	2.89	1.92	2.77	3,953	2,573	2,559	9,085
2028	3.73	2.89	1.92	2.77	4,053	2,638	2,624	9,315
2029	3.73	2.89	1.92	2.77	4,155	2,704	2,690	9,549
2030	3.73	2.89	1.92	2.77	4,261	2,773	2,758	9,792
2031	3.73	2.89	1.92	2.77	4,370	2,844	2,829	10,043
Growth 2022 - 2031	3.73	2.89	1.92	2.77	39,328	25,595	25,458	90,381

APPENDIX A TABLE A-10 CITY OF MARKHAM FORECAST PLACE OF WORK EMPLOYMENT

		Re	etail			Industrial/Office/Institutional (I.O.I.)			Ri	ural								
	Retail	Annual	Mixed-Use	Annual	Institutional	Annual	Emp. Land	Annual	Office	Annual	Rural	Annual	Total for	Annual	Work at Home	Annual	Total with	Annual
Mid-Year		Growth		Growth	institutional	Growth	Industrial	Growth		Growth		Growth	DC Study	Growth	Total Emp	Growth	Work at Home	Growth
2022	25,597	1,241	1,347	65	16,668	808	59,873	832	61,153	1,748	268	1	164,906	4,696	14,948	287	179,854	4,983
2023	26,901	1,304	1,416	69	17,517	849	60,717	844	62,953	1,800	269	1	169,773	4,867	15,241	293	185,014	5,160
2024	28,272	1,371	1,488	72	18,410	893	61,573	856	64,806	1,853	270	1	174,819	5,046	15,540	299	190,359	5,345
2025	29,712	1,440	1,564	76	19,348	938	62,441	868	66,713	1,907	271	1	180,049	5,230	15,844	304	195,893	5,534
2026	31,227	1,514	1,644	80	20,334	986	63,321	880	68,676	1,963	272	1	185,473	5,424	16,154	310	201,627	5,734
2027	32,818	1,591	1,727	84	21,370	1,036	64,214	893	70,697	2,021	273	1	191,099	5,626	16,471	317	207,570	5,943
2028	34,490	1,672	1,815	88	22,459	1,089	65,119	905	72,778	2,081	274	1	196,935	5,836	16,794	323	213,729	6,159
2029	36,247	1,758	1,908	93	23,603	1,144	66,037	918	74,920	2,142	275	1	202,990	6,055	17,123	329	220,113	6,384
2030	38,094	1,847	2,005	97	24,806	1,203	66,968	931	77,125	2,205	276	1	209,274	6,284	17,458	335	226,732	6,619
2031	40,035	1,941	2,107	102	26,070	1,264	67,911	943	79,395	2,270	281	5	215,800	6,526	17,800	342	233,600	6,868
Growth 2022 - 2031		15,679		825		10,210		8,870		19,990		14		55,590	1	3,139		58,729

APPENDIX A

TABLE A-11

CITY OF MARKHAM

FORECAST NON-RESIDENTIAL SPACE (SQUARE METRES OF GROSS FLOOR AREA)

Employment Density		
Retail	40.0	m ² per employee
Mixed-Use	40.0	m ² per employee
Institutional	66.7	m ² per employee
Emp. Land Industrial	80.0	m ² per employee
Office	25.0	m ² per employee
Rural	0.0	m ² per employee

	Re	etail	Industrial,	/Office/Institutio	nal (I.O.I)	Rural	Total for DC
Mid-Year	Retail	Mixed-Use	Institutional	Industrial	Office		Study
2022	49,648	2,613	53,857	66,587	43,701	0	216,406
2023	52,174	2,746	56,600	67,520	45,000	0	224,040
2024	54,834	2,886	59,533	68,480	46,325	0	232,058
2025	57,608	3,032	62,533	69,440	47,675	0	240,288
2026	60,572	3,188	65,733	70,400	49,075	0	248,968
2027	63,650	3,350	69,067	71,440	50,525	0	258,032
2028	66,880	3,520	72,600	72,400	52,025	0	267,425
2029	70,300	3,700	76,267	73,440	53,550	0	277,257
2030	73,872	3,888	80,200	74,480	55,125	0	287,565
2031	77,638	4,086	84,295	75,432	56,754	0	298,205
Growth 2022 - 2031	627,176	33,009	680,685	709,619	499,755	0	2,550,244



Appendix B Soft Services Technical Appendix



Appendix B: Soft Services Technical Appendix

The following appendix provides the detailed analysis undertaken to establish the development charge rates for each of the soft services in the City of Markham. Seven soft services have been analysed as part of the development charges study:

Appendix B.1	General Government
Appendix B.2	Library
Appendix B.3	Fire Services
Appendix B.4	Indoor Recreation
Appendix B.5	Park Development and Facilities
Appendix B.6	Public Works
Appendix B.7	Waste Diversion Services

Every service contains a set of three tables. The tables provide the background data and analysis undertaken to arrive at the calculated development charge rates for that particular service. An overview of the content and purpose of each of the tables is given below.

Tables B.1-1 to B.1-7Historical Service Levels

Table 1 presents the data used to determine the ten-year historical service level. The *DCA* and *O. Reg. 82/98* require that development charges be set at a level no higher than the average service level provided in the City over the ten-year period immediately preceding the preparation of the background study, on a service-by-service basis. For the purpose of this study, the historical inventory period has been defined as 2012 to 2021.



O. Reg. 82/98 requires that when defining and determining historical service levels both the quantity and quality of service be taken into consideration. In most cases, the service levels are initially established in quantitative terms. For example, service levels for buildings are presented in terms of square feet. The qualitative aspect is introduced by considering the monetary value of the facility or service. In the case of buildings, for example, the cost would be shown in terms of cost per square foot to replace or construct a facility of the same quality. This approach helps to ensure that the development-related capital facilities that are to be funded by new growth reflect not only the quantity (number and size) but also the quality (replacement value or cost) of service provided by the City in the past. Both the quantitative and qualitative aspects of service levels used in the current analysis are based on information provided by municipal staff. This information is generally based on historical records and experience with costs to acquire or construct similar facilities, equipment and infrastructure.

The final page of Tables B.1-1 to B.7-1 shows the calculation of the maximum allowable funding envelope, net of uncommitted excess capacity. The maximum allowable funding envelope is defined as the ten-year historical service level (expressed as either \$/capita or \$/population & employment) multiplied by the forecast increase in net population growth, or net population and employment growth, over the planning period. The resulting figure is the value of capital infrastructure that must be constructed for that particular service such that the ten-year historical service level is maintained.

HEMSON

Tables B.1-2 to B.7-22022 – 2031 Development-Related
Capital Program & Calculation of the
Unadjusted Development Charge

The *DCA* requires that Council express its intent to provide future capital facilities to support future growth. Based on the development forecasts presented in Appendix A, Hemson Consulting in collaboration with City staff has developed a development-related capital program which sets out the projects required to service anticipated growth for the ten-year period from 2022 to 2031.

To determine the share of the program that is eligible for recovery through development charges, the project costs are reduced by any anticipated grants, and "replacement" shares.

A replacement share occurs when a new facility will, at least in part, replace a facility that is demolished, redeployed or will otherwise not be available to serve its former function. The replacement share of the capital program is not deemed to be development-related and is therefore removed from the development charge calculation. The capital cost for replacement will require funding from non-development charge sources, typically property taxes or user fees.

The capital program less any replacement or benefit to existing shares, yields the development-related costs. Although deemed development-related, not all of the net development-related capital program may be recoverable from development charges within the 2022 to 2031 planning period. For some services, reserve fund balances collected from prior growth may be available to fund a share of the program. In addition, a portion of the capital program may service growth occurring beyond 2031. This portion of the capital program is deemed "other-development related" service capacity which may be eligible for recovery under future DCs.



The remaining portion of the net capital program represents the development-related cost that may be included in the development charge. In all cases, this amount is equal to or less than the maximum allowable funding envelope as calculated on the final page of Tables B.1- 1 to B.7-1. The result is the discounted development-related net capital cost that is eligible for recovery against development over the period from 2022 to 2031.

Calculation of the Unadjusted Development Charge Rates

The section below the capital program displays the calculation of the "unadjusted" development charge rates. The term "unadjusted" development charge is used to distinguish the charge that is calculated prior to cash flow financing considerations. The cash flow analysis is shown in Tables B.1-3 to B.7-3.

The first step when determining the unadjusted development charge rate is to allocate the development-related net capital cost between the residential and non-residential sectors. For General Government, Fire Services, and Public Works, the development-related costs have been apportioned as 62 per cent residential and 38 per cent non-residential.

The development-related costs associated with all other soft services (Library, Indoor Recreation, Park Development & Facilities, and Waste Diversion), have been allocated 100 per cent to the residential sector given the need for these services is generally driven by residential development.

The residential share of the 2022 - 2031 DC eligible costs are then divided by the forecast population growth in new units. This gives the unadjusted residential development charge per capita. The non-residential development-related net capital costs are divided by the forecast increase in non-residential gross floor area (GFA). This yields a charge per square metre of new non-residential GFA.



Tables B.1-3 to B.7-3 Cash Flow Analysis

A cash flow analysis is also undertaken to account for the timing of projects and receipt of development charges. Interest earnings or borrowing costs are, therefore, accounted for in the calculation as allowed under the *DCA*. Based on the growth forecast, the analysis calculates the development charges rate that is required to finance the net development-related capital spending plan including provisions for any borrowing costs or interest earnings on the reserve funds. The cash flow analysis is designed so that the closing cash balance at the end of the planning period is as close to nil as possible.

In order to determine appropriate development charges rates reflecting borrowing and earnings necessary to support the net development-related funding requirement, assumptions are used for the inflation rate and interest rate. An inflation rate of 2.0 per cent is used for the funding requirements, an interest rate of 3.5 per cent is used for positive opening balances, and a rate of 5.5 per cent is used for negative opening balances.

Tables B.1-3 to B.7-3 displays the results of the cash flow analysis and provides the adjusted or final per capita residential and per square metre (of GFA) non-residential development charges.



Appendix B.1 General Government



Appendix B.1: General Government

The *DCA* allows the cost of development-related studies to be included in the calculation of the development charges as long as they are permitted under the legislation. Subsection 7 (3) of the *DCA* allows for a development-related studies class in respect of any service in subsection 2 (4). This appendix covers the costs included for recovery of development-related studies.

Table B.1-12012 - 2021 Historical Service Levels

Table B.1-1 provides a summary of the historical service level for the provision of general government (development-related studies). The service level is based on actual expenditures for development-related studies over the last ten years (2012 - 2021) divided by year-over-year population and employment growth.

Table B.1-1 identifies a ten-year average service level for the provision of development-related studies of \$245.27 per population and employment. When multiplied by the net population and employment growth over the 2022 to 2031 planning period (145,660), yields a maximum allowable funding envelope of \$35.73 million that can be included in the development charges calculation.

Table B.1-22022 – 2031 Development-Related CapitalProgram and Calculation of the UnadjustedDevelopment Charges

As shown on Table B.1-2, the 2022 – 2031 development-related gross cost for General Government is \$34.10 million. This includes recovery of the negative reserve fund balance (\$12.45 million), as well as an annual provision of \$2.17 million for various studies. The annual provision is based



on the annual average over the previous ten years (\$1.96 million) and accounts for annual average CPI over the previous five years compounded over the next five years.

No grants or replacement shares have been identified, thus, the full amount of the capital program (34.10 million) has been brought forward to the development charge calculation. This amount is allocated 62 per cent, or \$21.11 million to the residential sector, and 38 per cent, or \$12.99 million to the non-residential sector; these shares are based on shares of ten-year growth in population in new units and employment.

The resulting unadjusted per capita residential charge is \$233.61 before cash flow adjustments. The non-residential unadjusted charge is further allocated between retail, industrial/office/institutional charges and mixeduse. The unadjusted retail rate is \$5.99 per square metre, the industrial/office/institutional (I.O.I.) amounts to \$4.83 per square metre and the unadjusted mixed-use charge is \$2.92 per square metre.

Table B.1-3 Cash Flow Analysis

After cash flow analysis, the residential charge increases to \$240.66 per capita. The non-residential retail charge increases to \$6.52 per square metre, while the industrial/office/institutional charge increases to \$5.23 per square metre, and mixed used increases to \$3.03 per square metre. This is a reflection of the timing of the capital program and development charges revenues.

The following table summarizes the calculation of the General Government development charge.

			Unadj	usted			Adju	sted	
20	022 - 2031		Developme	ent Charge			Developme	ent Charge	
Development-F	Related Capital Program F	Residential	Retail	1.0.1.	Mixed-Use	Residential	Retail	I.O.I.	Mixed-Us
Total	Net DC Recoverable	\$/capita	\$/sq.m	\$/sq.m	\$/sq.m	\$/capita	\$/sq.m	\$/sq.m	\$/sq.m
\$34,099,685	\$34,099,685	\$233.61	\$5.99	\$4.83	\$2.92	\$240.66	\$6.52	\$5.23	\$3.03



APPENDIX B.1 TABLE B.1-1

CITY OF MARKHAM INVENTORY OF CAPITAL ASSETS GENERAL GOVERNMENT

Growth-Related Studies					\$ Amou	nt Spent					Total
Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Various Studies	\$1,846,020	\$1,838,000	\$2,184,410	\$1,238,510	\$1,956,430	\$1,862,400	\$1,977,180	\$2,213,740	\$1,850,280	\$1,955,120	\$18,922,090
Development Charges Studies	\$316,530	\$135,000	\$0	\$25,000	\$0	\$109,890	\$0	\$0	\$0	\$109,890	\$696,310
Total (\$000)	\$2,162.6	\$1,973.0	\$2,184.4	\$1,263.5	\$1,956.4	\$1,972.3	\$1,977.2	\$2,213.7	\$1,850.3	\$2,065.0	

CITY OF MARKHAM										
CALCULATION OF SERVICE LEVELS										
INVENTORY OF CAPITAL ASSETS										
GENERAL GOVERNMENT										
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Historic Population	306,973	312,329	317,779	323,324	328,966	333,938	338,985	344,109	349,310	354,589
Historic Employment	135,104	137,357	139,685	142,092	144,582	147,517	150,539	153,654	156,862	160,210
Total Population & Employment	442,077	449,686	457,464	465,416	473,548	481,455	489,524	497,763	506,172	514,800
Growth	7,443	7,609	7,778	7,952	8,132	7,907	8,069	8,238	8,410	8,627

INVENTORY SUMMARY (\$000)

Growth-Related Studies	\$2,162.6	\$1,973.0	\$2,184.4	\$1,263.5	\$1,956.4	\$1,972.3	\$1,977.2	\$2,213.7	\$1,850.3	\$2,065.0
Total (\$000)	\$2,162.6	\$1,973.0	\$2,184.4	\$1,263.5	\$1,956.4	\$1,972.3	\$1,977.2	\$2,213.7	\$1,850.3	\$2,065.0

CALCULATION OF SERVICE LEVELS SERVICE LEVEL (\$/year)											Average Service
											Level
Growth-Related Studies	\$290.56	\$259.30	\$280.84	\$158.89	\$240.58	\$249.44	\$245.02	\$268.71	\$220.02	\$239.36	\$245.27
Total (\$000)	\$290.56	\$259.30	\$280.84	\$158.89	\$240.58	\$249.44	\$245.02	\$268.71	\$220.02	\$239.36	\$245.27

CITY OF MARKHAM CALCULATION OF MAXIMUM ALLOWABLE GENERAL GOVERNMENT

10-Year Funding Envelope Calculation	
10 Year Average Service Level 2012 - 2021	\$245.27
Net Population + Employment Growth 2022 - 203	145,660
Maximum Allowable Funding Envelope	\$35,726,125



APPENDIX B.1 TABLE B.1-2

CITY OF MARKHAM DEVELOPMENT-RELATED CAPITAL PROGRAM GENERAL GOVERNMENT

			Gross	1	Grants/	Net	Ine	ligible	Costs	Total			DC E	ligible	Costs		
Project Descri	ption	Timing	Project Cost		sidies/Other ecoveries	Municipal Cost		eplace BTE SI		DC Eligible Costs	Prior Growth		vailable Reserves		2022- 2031		ier Dev. ted Costs
			0031		ecoveries	0031	u	T	10163	00313		00	110301703		2031	Rela	160 00313
1.0 GENERAL GOV	ERNMENT																
1.1 Recove	ery of Past Commitments																
1.1.1	Recovery of Negative Reserve Fund Balance	2022	\$ 12,449,685	\$	-	\$ 12,449,685	0%	\$	-	\$ 12,449,685	\$ -	\$	-	\$	12,449,685	\$	-
	Subtotal Recovery of Past Commitments		\$ 12,449,685	\$	-	\$ 12,449,685		\$	-	\$ 12,449,685	\$ -	\$	-	\$	12,449,685	\$	-
1.1 Develo	opment-Related Studies																
1.1.1	Various Studies	2022	\$ 2,165,000	\$	-	\$ 2,165,000	0%	\$	-	\$ 2,165,000	\$ -	\$	-	\$	2,165,000	\$	-
1.1.2	Various Studies	2023	\$ 2,165,000	\$	-	\$ 2,165,000	0%	\$	-	\$ 2,165,000	\$ -	\$	-	\$	2,165,000	\$	-
1.1.3	Various Studies	2024	\$ 2,165,000	\$	-	\$ 2,165,000	0%	\$	-	\$ 2,165,000	\$ -	\$	-	\$	2,165,000	\$	-
1.1.4	Various Studies	2025	\$ 2,165,000	\$	-	\$ 2,165,000	0%	\$	-	\$ 2,165,000	\$ -	\$	-	\$	2,165,000	\$	-
1.1.5	Various Studies	2026	\$ 2,165,000	\$	-	\$ 2,165,000	0%	\$	-	\$ 2,165,000	\$ -	\$	-	\$	2,165,000	\$	-
1.1.6	Various Studies	2027	\$ 2,165,000	\$	-	\$ 2,165,000	0%	\$	-	\$ 2,165,000	\$ -	\$	-	\$	2,165,000	\$	-
1.1.7	Various Studies	2028	\$ 2,165,000	\$	-	\$ 2,165,000	0%	\$	-	\$ 2,165,000	\$ -	\$	-	\$	2,165,000	\$	-
1.1.8	Various Studies	2029	\$ 2,165,000	\$	-	\$ 2,165,000	0%	\$	-	\$ 2,165,000	\$ -	\$	-	\$	2,165,000	\$	-
1.1.9	Various Studies	2030	\$ 2,165,000	\$	-	\$ 2,165,000	0%	\$	-	\$ 2,165,000	\$ -	\$	-	\$	2,165,000	\$	-
1.1.10	Various Studies	2031	\$ 2,165,000	\$	-	\$ 2,165,000	0%	\$	-	\$ 2,165,000	\$ -	\$	-	\$	2,165,000	\$	-
	Subtotal Development-Related Studies		\$ 21,650,000	\$	-	\$ 21,650,000		\$	-	\$ 21,650,000	\$ -	\$	-	\$	21,650,000	\$	-
TOTAL GENER/	AL GOVERNMENT		\$ 34,099,685	\$	-	\$ 34,099,685		\$	-	\$ 34,099,685	\$ -	\$	-	\$	34,099,685	\$	-

Residential Development Charge Calculation		
Residential Share of 2022 - 2031 DC Eligible Costs	61.9%	\$21,113,570
10-Year Growth in Population in New Units		90,381
Unadjusted Development Charge Per Capita		\$233.61
Non-Residential Development Charge Calculation		
Non-Residential Share of 2022 - 2031 DC Eligible Costs	38.1%	\$12,986,114
10-Year Growth in Square Metres		2,550,244
Unadjusted Development Charge Per Square Metre		\$5.09
Non-Residential Development Charge Calculation		
Retail		
Non-Residential Share of 2022-2031 DC Eligible Costs	11.0% \$	3,759,194.0
10-Year Growth in Square Metres		627,176
Unadjusted Development Charge Per Square Metre		\$5.99
Industrial/Office/Institutional		
Non-Residential Share of 2022-2031 DC Eligible Costs	26.8% \$	9,130,530.8
10-Year Growth in Square Metres		1,890,059
Unadjusted Development Charge Per Square Metre		\$4.83
Mixed-Use		
Non-Residential Share of 2022-2031 DC Eligible Costs	0.3% \$	96,389.6
10-Year Growth in Square Metres		33,009
Unadjusted Development Charge Per Square Metre		\$2.92

2022 - 2031 Net Funding Envelope	\$35,726,125
Reserve Fund Balance	(\$12,449,685)



TABLE B.1-3

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE GENERAL GOVERNMENT RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

GENERAL GOVERNMENT	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
OPENING CASH BALANCE	(\$7,708.50)	(\$7,514.46)	(\$7,218.41)	(\$6,810.35)	(\$6,279.55)	(\$5,615.33)	(\$4,831.97)	(\$3,892.97)	(\$2,785.13)	(\$1,492.92)	
2022 - 2031 RESIDENTIAL FUNDING REQUIREMENTS											
- Prior Growth (Funding from DC Reserve Balance)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
- General Government : Non Inflated	\$1,340.5	\$1,340.5	\$1,340.5	\$1,340.5	\$1,340.5	\$1,340.5	\$1,340.5	\$1,340.5	\$1,340.5	\$1,340.5	\$13,405.1
- General Government : Inflated	\$1,367.3	\$1,394.7	\$1,422.6	\$1,451.0	\$1,480.0	\$1,509.6	\$1,539.8	\$1,570.6	\$1,602.0	\$1,602.0	\$14,939.7
NEW RESIDENTIAL DEVELOPMENT											
- Population Growth in New Units	8,094	8,301	8,514	8,733	8,955	9,085	9,315	9,549	9,792	10,043	90,381
REVENUE											
- DC Receipts: Inflated	\$1,947.9	\$2,037.7	\$2,131.7	\$2,230.3	\$2,332.7	\$2,413.9	\$2,524.5	\$2,639.7	\$2,761.0	\$2,888.4	\$23,908.0
INTEREST											
- Interest on Opening Balance	(\$424.0)	(\$413.3)	(\$397.0)	(\$374.6)	(\$345.4)	(\$308.8)	(\$265.8)	(\$214.1)	(\$153.2)	(\$82.1)	(\$2,978.2)
- Interest on In-year Transactions	\$10.6	\$12.2	\$13.8	\$15.6	\$17.4	\$18.8	\$20.7	\$22.7	\$24.9	\$27.1	\$183.8
TOTAL REVENUE	\$1,534.5	\$1,636.6	\$1,748.6	\$1,871.3	\$2,004.7	\$2,123.9	\$2,279.5	\$2,448.3	\$2,632.7	\$2,833.4	\$21,113.6
CLOSING CASH BALANCE	(\$7,514.5)	(\$7,218.4)	(\$6,810.3)	(\$6,279.6)	(\$5,615.3)	(\$4,832.0)	(\$3,893.0)	(\$2,785.1)	(\$1,492.9)	\$0.0	

2022 Adjusted Charge Per Capita

\$240.66

Allocation of Capital Program Residential Sector	61.9%
Non-Residential Sector	38.1%
Non-Residential Sector	50.170
Rates for 2022	
Inflation Rate:	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



TABLE B.1-3

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE GENERAL GOVERNMENT RETAIL NON-RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

GENERAL GOVERNMENT	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
OPENING CASH BALANCE	(\$1,372.47)	(\$1,361.25)	(\$1,330.59)	(\$1,277.75)	(\$1,199.95)	(\$1,093.61)	(\$955.42)	(\$781.52)	(\$567.44)	(\$308.67)	
2022 - 2031 NON-RESIDENTIAL FUNDING REQUIREMENTS											
 Prior Growth (Funding from DC Reserve Balance) General Government : Non Inflated 	\$0.0 \$238.7	\$0.0 \$2,386.7									
- General Government : Inflated	\$238.7	\$243.4	\$248.3	\$253.3	\$258.3	\$263.5	\$268.8	\$274.2	\$279.6	\$285.2	\$2,613.4
NON-RESIDENTIAL SPACE GROWTH - RETAIL											
- Growth in Square Metres	49,648	52,174	54,834	57,608	60,572	63,650	66,880	70,300	73,872	77,638	627,176.00
REVENUE											
- DC Receipts: Inflated	\$323.9	\$347.2	\$372.2	\$398.8	\$427.7	\$458.4	\$491.3	\$526.8	\$564.6	\$605.3	\$4,516.2
INTEREST	(*== =)	(+)	(+)	(+)	(*)	(*******)	(+)	(*)	(+)	(*	(+)
 Interest on Opening Balance Interest on In-year Transactions 	(\$75.5) \$1.5	(\$74.9) \$1.8	(\$73.2) \$2.2	(\$70.3) \$2.5	(\$66.0) \$3.0	(\$60.1) \$3.4	(\$52.5) \$3.9	(\$43.0) \$4.4	(\$31.2) \$5.0	(\$17.0) \$5.6	(\$563.7) \$33.3
	ψ1.5	φ1.0	ψ2.2	¢2.0	φ0.0	ψ0.1	¢0.5	ψ1.1	ψ0.0	ψ0.0	ψ33.3
TOTAL REVENUE	\$249.9	\$274.1	\$301.2	\$331.1	\$364.7	\$401.7	\$442.7	\$488.2	\$538.4	\$593.9	\$3,985.9
CLOSING CASH BALANCE	(\$1,361.3)	(\$1,330.6)	(\$1,277.8)	(\$1,199.9)	(\$1,093.6)	(\$955.4)	(\$781.5)	(\$567.4)	(\$308.7)	\$0.0	

2022 Adjusted Charge Per Square Metre	
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\$6.52

Allocation of Capital Program	
Retail Sector	11.0%
Industrial/Office/Institutional Sector	26.8%
Mixed-Use	0.3%
Rates for 2022	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



TABLE B.1-3

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE GENERAL GOVERNMENT INDUSTRIAL/OFFICE/INSTITUTIONAL NON-RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

GENERAL GOVERNMENT	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
OPENING CASH BALANCE	(\$3,333.53)	(\$3,233.17)	(\$3,094.62)	(\$2,913.23)	(\$2,684.84)	(\$2,404.10)	(\$2,065.12)	(\$1,662.15)	(\$1,188.60)	(\$636.87)	
2022 - 2031 NON-RESIDENTIAL FUNDING REQUIREMENTS											
- Prior Growth (Funding from DC Reserve Balance)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
- General Government : Non Inflated	\$579.7	\$579.7	\$579.7	\$579.7	\$579.7	\$579.7	\$579.7	\$579.7	\$579.7	\$579.7	\$5,797.0
- General Government : Inflated	\$579.7	\$591.3	\$603.1	\$615.2	\$627.5	\$640.0	\$652.8	\$665.9	\$679.2	\$692.8	\$6,347.6
NON-RESIDENTIAL SPACE GROWTH - I.O.I.											
- Growth in Square Metres	164,145	169,120	174,338	179,648	185,208	191,032	197,025	203,257	209,805	216,481	1,890,059
REVENUE											
- DC Receipts: Inflated	\$858.5	\$902.2	\$948.7	\$997.1	\$1,048.5	\$1,103.1	\$1,160.5	\$1,221.1	\$1,285.7	\$1,353.1	\$10,878.7
INTEREST											
- Interest on Opening Balance	(\$183.3)	(\$177.8)	(\$170.2)	(\$160.2)	(\$147.7)	(\$132.2)	(\$113.6)	(\$91.4)	(\$65.4)	(\$35.0)	(\$1,276.9)
- Interest on In-year Transactions	\$4.9	\$5.4	\$6.0	\$6.7	\$7.4	\$8.1	\$8.9	\$9.7	\$10.6	\$11.6	(\$1,270.9) \$79.3
interest on in year transactions	ψ+.5	ψ0.4	ψ0.0	ψ0.7	ψ1.4	ψ0.1	ψ0.5	ψ5.1	φ10.0	ψ11.0	\$15.5
TOTAL REVENUE	\$680.1	\$729.8	\$784.5	\$843.6	\$908.2	\$979.0	\$1,055.8	\$1,139.4	\$1,230.9	\$1,329.7	\$9,681.1
CLOSING CASH BALANCE	(\$3,233.2)	(\$3,094.6)	(\$2,913.2)	(\$2,684.8)	(\$2,404.1)	(\$2,065.1)	(\$1,662.2)	(\$1,188.6)	(\$636.9)	\$0.0	

2022 Adjusted Charge Per Square Metre	
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\$5.23

Allocation of Capital Program	
Retail Sector	11.0%
Industrial/Office/Institutional Sector	26.8%
Mixed-Use	0.3%
Rates for 2022	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



TABLE B.1-3

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE GENERAL GOVERNMENT MIXED-USE NON-RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

GENERAL GOVERNMENT	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
OPENING CASH BALANCE	(\$35.19)	(\$35.31)	(\$34.73)	(\$33.62)	(\$31.79)	(\$29.14)	(\$25.58)	(\$21.01)	(\$15.31)	(\$8.35)	
2022 - 2031 NON-RESIDENTIAL FUNDING REQUIREMENTS - Prior Growth (Funding from DC Reserve Balance)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
- General Government : Non Inflated - General Government : Inflated	\$6.1 \$6.1	\$61.2 \$61.2									
NON-RESIDENTIAL SPACE GROWTH - MIXED-USE											
- Growth in Square Metres	2,613	2,746	2,886	3,032	3,188	3,350	3,520	3,700	3,888	4,086	33,009
REVENUE											
- DC Receipts: Inflated	\$7.9	\$8.5	\$9.1	\$9.7	\$10.4	\$11.2	\$12.0	\$12.9	\$13.8	\$14.8	\$110.3
INTEREST											
- Interest on Opening Balance	(\$1.9)	(\$1.9)	(\$1.9)	(\$1.8)	(\$1.7)	(\$1.6)	(\$1.4)	(\$1.2)	(\$0.8)	(\$0.5)	(\$14.8)
- Interest on In-year Transactions	\$0.0	\$0.0	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.2	\$0.9
TOTAL REVENUE	\$6.0	\$6.6	\$7.2	\$8.0	\$8.8	\$9.7	\$10.7	\$11.8	\$13.1	\$14.5	\$96.3
CLOSING CASH BALANCE	(\$35.3)	(\$34.7)	(\$33.6)	(\$31.8)	(\$29.1)	(\$25.6)	(\$21.0)	(\$15.3)	(\$8.3)	\$0.0	

2022 Adjusted Charge Per Square Metre

\$3.03

Allocation of Capital Program	
Retail Sector	11.0%
Industrial/Office/Institutional Sector	26.8%
Mixed-Use	0.3%
Rates for 2022	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



Appendix B.2 Library Services



Appendix B.2: Library Services

The Markham Public Library provides library services from eight branches. The library offers a wide array of adult and children's services, library programs and room rentals. Each branch has a variety of collection materials available for the community's use.

Table B.2-1 2012 - 2021 Historical Service Levels

Table B.2-1 displays the Library's ten-year historical inventory for buildings, land, materials, and furniture and equipment (excluding computer equipment). The building space amounts to 166,050 square feet which is valued at \$98.73 million. The library buildings occupy approximately 5.21 hectares of land worth \$71.49 million. The collection materials are valued at \$26.23 million and furniture and equipment associated with the branch is valued at \$10.57 million.

The 2021 full replacement value of the inventory of capital assets amounts to \$207.01 million which yields a the ten-year historical average service level is \$585.95 per capita. The historical service level multiplied by the ten-year forecast of net population growth (90,070) results in a ten-year maximum allowable funding envelope of \$52.78 million.

Table B.2-22022 – 2031 Development-Related Capital
Program & Calculation of the Unadjusted
Development Charge

The Library Services capital program includes a provision for five new library facilities: Markham Centre, Thornhill, West Markham, East Markham, as well as a 20,000 sq.ft. future facility. Each of the five facilities require \$2.06 million for the acquisition of land, as well as a total cost of \$55.35 million for construction, \$7.24 million for furnishings, and \$15.01 million for library collection materials.



The total gross cost of the Library DC capital program is \$87.88 million. No grants, subsidies, or other recoveries are anticipated to fund any shares of the above mentioned projects, as such, the net cost to the municipality remains at \$87.88 million. No shares of the projects are deemed to be a replacement as they are net additions to the current Library service level.

The existing reserve fund balance of \$5.34 million has been applied against the net municipal cost of the library capital program. A share of the development-related capital program, \$29.76 million, is above the 10-year historical service level net funding envelope; this amount has been categorized as "other development-related" and will not be recovered under this development charges by-law. Oher development-related shares, however, will be considered in future development charge studies (subject to service level restrictions), other growth-funding tools or other funding sources.

After these adjustments, the 2022 – 2031 DC costs eligible for recovery amounts to \$52.78 million which is allocated entirely against future residential development in the City of Markham. This results in an unadjusted development charge of \$583.94 per capita.

Table B.2-3Cash Flow Analysis

After cash flow, the residential calculated charge increases to \$598.39 per capita. The increase reflects the front-ended nature of the capital program.

The following table summarizes the calculation of the Library development charge:

				LIBRARY S	UMMARY					
				Unad	justed			Adjus	sted	
10-year Hist. 2022 - 2031 Development Char								Developme	nt Charge	
Service Level	Development-R	Related Capital Program	Residential	Retail	1.0.1.	Mixed-Use	Residential	Retail	I.O.I.	Mixed-Use
per capita	Total	Net DC Recoverable	\$/capita	\$/sq.m	\$/sq.m	\$/sq.m	\$/capita	\$/sq.m	\$/sq.m	\$/sq.m
\$585.95	\$87,883,379	\$52,776,897	\$583.94	\$0.00	\$0.00	\$0.00	\$598.39	\$0.00	\$0.00	\$0.00



APPENDIX B.2 TABLE B.2-1

CITY OF MARKHAM INVENTORY OF CAPITAL ASSETS LIBRARY

BUILDINGS	# of Square Feet										
Branch Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/sq. ft.)
Aaniin Community Centre	-	-	-	-	-	20,000	20,000	20,000	20,000	20,000	\$615
Angus Glen Library - 3990 Major Mackenzie Drive East, Markham	29,700	29,700	29,700	29,700	29,700	29,700	29,700	29,700	29,700	29,700	\$615
Cornell Library - 3201 Bur Oak Drive, Markham	-	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	\$615
Markham Village Library - 6031 Hwy #7, Markham	32,510	32,510	32,510	32,510	32,510	32,510	32,510	32,510	32,510	32,510	\$615
Milliken Mills Library - Unit 1, 7600 Kennedy Rd., Unionville	16,865	16,865	16,865	16,865	16,865	16,865	16,865	16,865	16,865	16,865	\$615
Thornhill CC Library - 7755 Bayview Ave., Thornhill	26,053	26,053	26,053	26,053	26,053	26,053	26,053	26,053	26,053	26,053	\$615
Thornhill Village Library - 10 Colbourne St., Thornhill	4,283	4,283	4,283	4,283	4,283	4,283	4,283	4,283	4,283	4,283	\$476
Unionville Library - 15 Library Lane, Unionville	13,640	13,640	13,640	13,640	13,640	13,640	13,640	13,640	13,640	13,640	\$410
Total (sq.ft.)	123,051	146,051	146,051	146,051	146,051	166,051	166,051	166,051	166,051	166,051	
Total (\$000)	\$72,284.8	\$86,429.8	\$86,429.8	\$86,429.8	\$86,429.8	\$98,729.8	\$98,729.8	\$98,729.8	\$98,729.8	\$98,729.8	1

LAND					# of He	ectares					UNIT COST
Branch Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/ha)
Aaniin Community Centre	-	-	-	-	-	0.55	0.55	0.55	0.55	0.55	\$13,714,000
Angus Glen Library - 3990 Major Mackenzie Drive East, Markham	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	\$13,714,000
Cornell Library - 3201 Bur Oak Drive, Markham	-	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	\$13,714,000
Markham Village Library - 6031 Hwy #7, Markham	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	\$13,714,000
Milliken Mills Library - Unit 1, 7600 Kennedy Rd., Unionville	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	\$13,714,000
Thornhill CC Library - 7755 Bayview Ave., Thornhill	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	\$13,714,000
Thornhill Village Library - 10 Colbourne St., Thornhill	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	\$13,714,000
Unionville Library - 15 Library Lane, Unionville	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.67	0.67	0.67	\$13,714,000
Total (ha)	4.48	4.90	4.90	4.90	4.90	5.45	5.45	5.21	5.21	5.21	
Total (\$000)	\$61,444.3	\$67,237.1	\$67,237.1	\$67,237.1	\$67,237.1	\$74,779.8	\$74,779.8	\$71,488.4	\$71,488.4	\$71,488.4	



APPENDIX B.2 TABLE B.2-1

CITY OF MARKHAM INVENTORY OF CAPITAL ASSETS LIBRARY

MATERIALS					# of Collection	on Materials					UNIT COST
Type of Collection	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/item)
Collection Materials											
- Talking Books	14,169	13,172	12,175	14,990	14,919	14,965	14,858	14,613	15,362	15,362	\$51
- Talking Books (kits)	3,552	2,091	629	592	95	-	-	-	-	-	\$81
- Books	556,726	563,300	573,357	583,414	594,797	619,199	618,554	607,706	620,832	620,832	\$31
- Browsing PB	80,268	48,209	-	-	-	-	-	-	-	-	\$12
- CD-ROM Software	2,488	1,255	22	5	4	-	-		-	-	\$45
- Compact Discs	20,147	17,003	13,859	17,656	17,487	15,783	16,224	15,645	15,948	15,948	\$21
- Daisy Players	-	-	-	-	-	4	8	8	8	8	\$541
- DML Lendable Equipment	-	-	28	27	26	26	112	129	109	109	\$151
- DVDs	50,071	58,571	67,071	91,037	93,801	99,035	104,227	108,259	113,133	113,133	\$34
- Energy Meters	-	-	43	43	41	13	13	53	53	53	\$60
- Enviropacks	-	-	24	27	28	29	34	30	30	30	\$94
- Equipment	-	-	-	-	-	2	13	59	78	78	\$8
- Instruments	-	-	-	-	-	-	-	67	67	67	\$147
- Launchpads	-	-	-	-	-	-	-	-	112	112	\$229
- Lendery	-	-	-	-	-	-	-	71	71	71	\$37
- Microfiche	500	500	500	500	500	500	500	500	500	500	\$75
- Microfilms	457	481	493	505	517	529	541	553	565	565	\$294
- Newspapers	61	73	85	91	88	83	70	70	68	68	\$241
- Pedometers	-	-	87	83	73	67	65	59	58	58	\$6
- Periodicals	1,072	1,059	1,046	1,058	1,034	989	969	1,003	967	967	\$88
- Toys	-	-	-	-	-	77	454	417	413	413	\$52
- Videocassettes	265	140	15	-	-	-	-	-	-	-	\$26
- Videogames	2,079	2,006	1,932	2,092	2,250	2,992	3,632	4,099	4,698	4,698	\$78
Electronic Resources											
- Electronic Resources	\$359,781	\$338,817	\$367,525	\$510,080	\$532,443	\$717,841	\$844,391	\$1,052,580	\$1,223,608	\$1,260,316	
Total (#)	731,855	707,860	671,366	712,120	725,660	754,293	760,274	753,341	773,072	773,072	
Total (\$000)	\$22,279.24	\$22,075.53	\$21,841.56	\$23,348.49	\$23,783.01	\$24,922.31	\$25,293.06	\$25,335.81	\$26,193.19	\$26,229.90	

FIXTURES, FURNITURE & EQUIPMENT				Total V	Value of Furnitu	re and Equipm	ent (\$)			
Branch Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Aaniin Community Centre	-	-	-	-	-	\$782,209	\$784,145	\$852,887	\$852,887	\$852,887
Automated Library Collection System	\$2,974,577	\$3,009,778	\$3,085,673	\$3,133,646	\$3,197,584	\$3,215,547	\$3,450,659	\$3,457,847	\$3,457,847	\$3,457,847
Angus Glen Library - 3990 Major Mackenzie Drive East, Markham	\$841,483	\$841,776	\$847,519	\$850,136	\$851,984	\$856,636	\$858,839	\$949,901	\$969,165	\$969,620
Cornell Library - 3201 Bur Oak Ave, Markham	-	\$763,586	\$782,840	\$795,011	\$811,232	\$813,069	\$818,807	\$827,091	\$827,091	\$827,091
Markham Village Library - 6031 Hwy #7, Markham	\$722,319	\$734,126	\$735,435	\$738,633	\$753,704	\$763,500	\$770,240	\$800,029	\$816,693	\$835,706
Milliken Mills Library - Unit 1, 7600 Kennedy Rd., Unionville	\$1,000,044	\$1,042,992	\$1,046,497	\$1,062,767	\$1,084,451	\$1,090,006	\$1,098,413	\$1,103,693	\$1,103,693	\$1,103,693
Thornhill CC Library - 7755 Bayview Ave., Thornhill	\$1,015,323	\$978,163	\$980,162	\$995,400	\$1,015,710	\$1,031,460	\$1,044,042	\$1,070,895	\$1,082,882	\$1,110,070
Thornhill Village Library - 10 Colbourne St., Thornhill	\$186,325	\$154,693	\$155,862	\$158,285	\$161,515	\$161,515	\$161,765	\$169,973	\$169,973	\$169,973
Unionville Library - 15 Library Lane, Unionville	\$1,027,312	\$1,019,312	\$1,020,907	\$1,023,420	\$1,044,302	\$1,139,829	\$1,239,183	\$1,239,183	\$1,239,183	\$1,239,183
Total (\$000)	\$7,767.4	\$8,544.4	\$8,654.9	\$8,757.3	\$8,920.5	\$9,853.8	\$10,226.1	\$10,471.5	\$10,519.4	\$10,566.1



TABLE B.2-1

CITY OF MARKHAM

CALCULATION OF SERVICE LEVELS

LIBRARY

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Historical Population	306,973	312,329	317,779	323,324	328,966	333,938	338,985	344,109	349,310	354,589

INVENTORY SUMMARY (\$000)

Buildings	\$72,284.8	\$86,429.8	\$86,429.8	\$86,429.8	\$86,429.8	\$98,729.8	\$98,729.8	\$98,729.8	\$98,729.8	\$98,729.8
Land	\$61,444.3	\$67,237.1	\$67,237.1	\$67,237.1	\$67,237.1	\$74,779.8	\$74,779.8	\$71,488.4	\$71,488.4	\$71,488.4
Materials	\$22,279.2	\$22,075.5	\$21,841.6	\$23,348.5	\$23,783.0	\$24,922.3	\$25,293.1	\$25,335.8	\$26,193.2	\$26,229.9
Fixtures, Furniture & Equipment	\$7,767.4	\$8,544.4	\$8,654.9	\$8,757.3	\$8,920.5	\$9,853.8	\$10,226.1	\$10,471.5	\$10,519.4	\$10,566.1
Total (\$000)	\$163,775.7	\$184,286.9	\$184,163.4	\$185,772.7	\$186,370.4	\$208,285.7	\$209,028.8	\$206,025.6	\$206,930.8	\$207,014.2

SERVICE LEVEL (\$/capita)

Average Service Level

											Level
Buildings	\$235.48	\$276.73	\$271.98	\$267.32	\$262.73	\$295.65	\$291.25	\$286.91	\$282.64	\$278.43	\$274.91
Land	\$200.16	\$215.28	\$211.58	\$207.96	\$204.39	\$223.93	\$220.60	\$207.75	\$204.66	\$201.61	\$209.79
Materials	\$72.58	\$70.68	\$68.73	\$72.21	\$72.30	\$74.63	\$74.61	\$73.63	\$74.99	\$73.97	\$72.83
Fixtures, Furniture & Equipment	\$25.30	\$27.36	\$27.24	\$27.09	\$27.12	\$29.51	\$30.17	\$30.43	\$30.11	\$29.80	\$28.41
Total (\$/capita)	\$533.52	\$590.04	\$579.53	\$574.57	\$566.53	\$623.73	\$616.63	\$598.72	\$592.40	\$583.81	\$585.95

CITY OF MARKHAM

CALCULATION OF MAXIMUM ALLOWABLE LIBRARY

10-Year Funding Envelope Calculation	
10 Year Average Service Level 2012 - 2021	\$585.95
Net Population Growth 2022 - 2031	90,071
Maximum Allowable Funding Envelope	\$52,776,897



APPENDIX B.2 TABLE B.2-2

CITY OF MARKHAM DEVELOPMENT-RELATED CAPITAL PROGRAM LIBRARY

			1	Gross	Grants/		Net	Ine	ligible Costs		Total	1			DC	Eligit	ole Costs		
Project Descrip	otion	Timing		Project	Subsidies/Other		Municipal		eplacement		DC Eligible		Prior		Available		2022-		Other Dev.
				Cost	Recoveries		Cost	&	BTE Shares		Costs		Growth	D	C Reserves		2031	F	Related Costs
2.0 LIBRARY																			
2.1 Library	Buildings																		
2.2.1	Markham Centre (20,000 sq. ft)	2022	\$	12,300,000	\$ -	\$	12,300,000	0%	\$	-	\$ 12,300,000	\$	-	\$	5,343,182	\$	6,956,818	\$	-
2.2.2	Thornhill (10,000 sq.ft)	2026	\$	6,150,000	\$ -	\$	6,150,000	0%	\$	-	\$ 6,150,000	\$	-	\$	-	\$	3,690,000	\$	2,460,000
2.2.3	West Markham (20,000 sq. ft)	2026	\$	12,300,000	\$ -	\$	12,300,000	0%	\$	-	\$ 12,300,000	\$	=	\$	-	\$	9,225,000	\$	3,075,000
2.2.4	East Markham (20,000 sq. ft)	2030	\$	12,300,000	\$ -	\$	12,300,000	0%	\$	-	\$ 12,300,000	\$	-	\$	-	\$	6,150,000	\$	6,150,000
2.2.5	Provision for Future Library Building (20,000 sq.ft.)	2030	\$	12,300,000	\$ -	\$	12,300,000	0%	\$	-	\$ 12,300,000	\$	-	\$	-	\$	4,920,000	\$	7,380,000
	Subtotal Library Buildings		\$	55,350,000	\$ -	\$	55,350,000		\$	-	\$ 55,350,000	\$	-	\$	5,343,182	\$	30,941,818	\$	19,065,000
2.2 Library	land																		
2.2.1	Markham Centre	2022	\$	2,057,100	\$ -	\$	2,057,100	0%	\$	_	\$ 2,057,100	\$	-	\$	-	\$	2.057.100	\$	-
2.2.2	Thornhill	2026	\$	2,057,100	\$ -	\$	2,057,100	0%	\$	_	\$ 2,057,100		-	\$	-	\$	1,234,260	\$	822,840
2.2.3	West Markham	2026	\$	2,057,100	\$ -	\$	2,057,100	0%	\$	_	\$ 2,057,100		-	\$	-	\$	1,542,825	\$	514,275
2.2.4	East Markham	2030	\$	2,057,100	\$ -	\$	2,057,100	0%	\$		\$ 2,057,100	\$	-	\$	-	\$	1,028,550	\$	1,028,550
2.2.5	Provision for Future Library Building	2030	\$	2,057,100	\$ -	\$	2,057,100	0%	\$	-	\$ 2,057,100	\$	-	\$	-	\$	822,840	\$	1,234,260
	Subtotal Library Land		\$	10,285,500	\$ -	\$	10,285,500		\$	-	\$ 10,285,500	\$	-	\$	-	\$	6,685,575	\$	3,599,925
2.3 Library	Furniture and Equipment																		
2.3.1	Markham Centre	2022	\$	1,609,244	\$ -	\$	1.609.244	0%	\$	-	\$ 1,609,244	\$	-	\$	-	\$	1.609.244	\$	-
2.3.2	Thornhill	2026	\$	804.622	\$ -	\$	804.622	0%	\$	-	\$ 804.622	ŝ	-	\$	-	\$	482.773	\$	321,849
2.3.3	West Markham	2026	\$	1,609,244	\$ -	\$	1,609,244	0%	\$	_	\$ 1,609,244	\$	-	\$	-	\$	1,206,933	\$	402,311
2.3.4	East Markham	2030	\$	1,609,244	\$ -	\$	1,609,244	0%	\$	_	\$ 1,609,244	\$	-	\$	-	\$	804,622	\$	804,622
2.3.5	Provision for Future Library Building	2030	\$	1,609,244	\$ -	\$	1,609,244	0%	\$	-	\$ 1,609,244	\$	-	\$	-	\$	643,698	\$	965,546
	Subtotal Library Furniture and Equipment		\$	7,241,598	\$ -	\$	7,241,598		\$	-	\$ 7,241,598	\$	-	\$	-	\$	4,747,270	\$	2,494,328
2.4 Library	Collection Materials																		
2.4.1	Markham Centre	2022	\$	3,334,729	\$ -	\$	3,334,729	0%	\$	-	\$ 3,334,729	\$	-	\$	-	\$	3,334,729	\$	-
2.4.2	Thornhill	2026	\$	1.667.365	\$ -	\$	1.667.365	0%	\$	-	\$ 1,667,365		-	\$	-	\$	1.000.419	\$	666,946
2.4.3	West Markham	2026	\$	3,334,729	\$ -	\$	3.334.729	0%	\$	-	\$ 3,334,729	\$	-	\$	-	\$	2,501,047	\$	833,682
2.4.4	East Markham	2030	\$	3,334,729	\$ -	\$	3,334,729	0%	\$	_	\$ 3,334,729	\$	-	\$	-	\$	1,667,365	\$	1,667,365
2.4.5	Provision for Future Library Building	2030	\$	3,334,729	\$ -	\$	3,334,729	0%	\$	-	\$ 3,334,729	\$	-	\$	-	\$	1,898,675	\$	1,436,054
	Subtotal Library Collection Materials		\$	15,006,281	\$ -	\$	15,006,281		\$	-	\$ 15,006,281	\$	-	\$	-	\$	10,402,234	\$	4,604,047
TOTAL LIBRARY	Y		\$	87,883,379	\$-	\$	87,883,379		\$	-	\$ 87,883,379	\$	-	\$	5,343,182	\$	52,776,897	\$	29,763,300
	-		Ť	31,000,010	-	Ť	,000,010		Ŧ			Ť		Ť	_,0 .0,10L	Ť	02,0,001	+	20,1 00,000

Residential Development Charge Calculation		
Residential Share of 2022 - 2031 DC Eligible Costs	100%	\$52,776,897
10-Year Growth in Population in New Units		90,381
Unadjusted Development Charge Per Capita		\$583.94
Non-Residential Development Charge Calculation		
Non-Residential Share of 2022 - 2031 DC Eligible Costs	0%	\$0
10-Year Growth in Square Metres		2,550,244
Unadjusted Development Charge Per Square Metre		\$0.00

2022 - 2031 Net Funding Envelope	\$52,776,897
Reserve Fund Balance	\$5,343,182



TABLE B.2-3

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE LIBRARY RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
\$5,343.18	(\$9,325.1)	(\$4,682.7)	\$453.1	\$6,111.7	(\$10,940.9)	(\$5,435.4)	\$652.8	\$7,354.2	(\$6,926.8)	
\$5,343.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$5,343.2
										\$52,776.9
\$19,301.1	\$0.0	\$0.0	\$0.0	\$22,604.7	\$0.0	\$0.0	\$0.0	\$21,014.6	\$0.0	\$62,920.4
8,094	8,301	8,514	8,733	8,955	9,085	9,315	9,549	9,792	10,043	90,381
\$4,843.4	\$5,066.6	\$5,300.6	\$5,545.6	\$5,800.3	\$6,002.2	\$6,277.3	\$6,563.7	\$6,865.3	\$7,182.1	\$59,447.2
\$187.0	(\$512.9)	(\$257.5)	\$15.9	\$213.9	(\$601.8)	(\$298.9)	\$22.8	\$257.4	(\$381.0)	(\$1,355.1)
(\$397.6)	\$88.7	\$92.8	\$97.0	(\$462.1)	\$105.0	\$109.9	\$114.9	(\$389.1)	\$125.7	(\$514.9)
\$4,632.8	\$4,642.4	\$5,135.8	\$5,658.5	\$5,552.1	\$5,505.5	\$6,088.2	\$6,701.4	\$6,733.6	\$6,926.8	\$57,577.2
(\$9,325.1)	(\$4,682.7)	\$453.1	\$6,111.7	(\$10,940.9)	(\$5,435.4)	\$652.8	\$7,354.2	(\$6,926.8)	\$0.0	
	\$5,343.18 \$5,343.2 \$13,957.9 \$19,301.1 8,094 \$4,843.4 \$187.0 (\$397.6) \$4,632.8	\$5,343.18 (\$9,325.1) \$5,343.2 \$0.0 \$13,957.9 \$0.0 \$19,301.1 \$0.0 \$0,94 \$,301 \$4,843.4 \$5,066.6 \$187.0 (\$512.9) (\$397.6) \$88.7 \$4,632.8 \$4,642.4	\$5,343.18 (\$9,325.1) (\$4,682.7) \$5,343.2 \$0.0 \$0.0 \$13,957.9 \$0.0 \$0.0 \$19,301.1 \$0.0 \$0.0 \$0.94 \$3,301 \$5,14 \$4,843.4 \$5,066.6 \$5,300.6 \$187.0 (\$512.9) (\$257.5) \$397.6) \$88.7 \$92.8 \$4,632.8 \$4,642.4 \$5,135.8	\$5,343.18 (\$9,325.1) (\$4,682.7) \$453.1 \$5,343.2 \$0.0 \$0.0 \$0.0 \$13,957.9 \$0.0 \$0.0 \$0.0 \$19,301.1 \$0.0 \$0.0 \$0.0 \$8,094 8,301 8,514 8,733 \$4,843.4 \$5,066.6 \$5,300.6 \$5,545.6 \$187.0 (\$512.9) (\$257.5) \$15.9 \$397.6) \$88.7 \$92.8 \$97.0 \$4,632.8 \$4,642.4 \$5,135.8 \$5,658.5	\$5,343.18(\$9,325.1)(\$4,682.7)\$453.1\$6,111.7\$5,343.2\$0.0\$0.0\$0.0\$0.0\$0.0\$13,957.9\$0.0\$0.0\$0.0\$0.0\$19,301.1\$0.0\$0.0\$0.0\$22,604.78,0948,3018,5148,7338,955\$4,843.4\$5,066.6\$5,300.6\$5,545.6\$5,800.3\$187.0(\$512.9)(\$257.5)\$15.9\$213.9\$4,632.8\$4,642.4\$5,135.8\$5,658.5\$5,552.1	\$5,343.18(\$9,325.1)(\$4,682.7)\$453.1\$6,111.7(\$10,940.9)\$5,343.2\$0.0\$0.0\$0.0\$0.0\$0.0\$0.0\$13,957.9\$0.0\$0.0\$0.0\$20,883.3\$0.0\$19,301.1\$0.0\$0.0\$0.0\$22,604.7\$0.0\$0,94\$3.01\$8,514\$7,33\$8,9559,085\$4,843.4\$5,066.6\$5,300.6\$5,545.6\$5,800.3\$6,002.2\$187.0(\$512.9)(\$257.5)\$15.9\$213.9(\$601.8)\$397.6)\$88.7\$92.8\$97.0(\$462.1)\$105.0\$4,632.8\$4,642.4\$5,135.8\$5,658.5\$5,552.1\$5,505.5	\$5,343.18(\$9,325.1)(\$4,682.7)\$453.1\$6,111.7(\$10,940.9)(\$5,435.4)\$5,343.2\$0.0\$0.0\$0.0\$0.0\$0.0\$0.0\$0.0\$0.0\$13,957.9\$0.0\$0.0\$0.0\$0.0\$20,883.3\$0.0\$0.0\$19,301.1\$0.0\$0.0\$0.0\$22,604.7\$0.0\$0.0\$0.948,3018,5148,7338,9559,0859,315\$4,843.4\$5,066.6\$5,300.6\$5,545.6\$5,800.3\$6,002.2\$6,277.3\$187.0(\$512.9)\$257.5)\$15.9\$213.9(\$601.8)(\$298.9)\$4,632.8\$4,642.4\$5,135.8\$5,658.5\$5,552.1\$5,505.5\$6,088.2	\$5,343.18(\$9,325.1)(\$4,682.7)\$453.1\$6,111.7(\$10,940.9)(\$5,435.4)\$652.8\$5,343.2\$0.0\$0.0\$0.0\$0.0\$0.0\$0.0\$0.0\$0.0\$0.0\$13,957.9\$0.0\$0.0\$0.0\$20,883.3\$0.0\$0.0\$0.0\$19,301.1\$0.0\$0.0\$0.0\$22,604.7\$0.0\$0.0\$0.0\$0.948,3018,5148,7338,9559,0859,3159,549\$4,843.4\$5,066.6\$5,300.6\$5,545.6\$5,800.3\$6,002.2\$6,277.3\$6,563.7\$187.0(\$512.9)(\$257.5)\$15.9\$213.9(\$601.8)(\$298.9)\$22.8\$397.6)\$88.7\$92.8\$97.0\$462.1)\$105.0\$109.9\$114.9\$4,632.8\$4,642.4\$5,135.8\$5,658.5\$5,552.1\$5,505.5\$6,088.2\$6,701.4	\$5,343.18(\$9,325.1)(\$4,682.7)\$453.1\$6,111.7(\$10,940.9)(\$5,435.4)\$652.8\$7,354.2\$5,343.2\$0.0 <td< td=""><td>\$5,343.18(\$9,325.1)(\$4,682.7)\$453.1\$6,111.7(\$10,940.9)(\$5,435.4)\$652.8\$7,354.2(\$6,926.8)\$5,343.2\$0.0<!--</td--></td></td<>	\$5,343.18(\$9,325.1)(\$4,682.7)\$453.1\$6,111.7(\$10,940.9)(\$5,435.4)\$652.8\$7,354.2(\$6,926.8)\$5,343.2\$0.0 </td

2022 Adjusted Charge Per Capita	
---------------------------------	--

\$598.39

Allocation of Capital Program Residential Sector	100.0%
Non-Residential Sector	0.0%
Rates for 2022	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



Appendix B.3 Fire Services



Appendix B.3: Fire Services

The Markham Fire Department operates from nine stations and one training centre. The Department is responsible for fire prevention inspections, public education sessions, communications (including dispatching), and fire suppression.

Table B.3-12012 - 2021 Historical Service Levels

The combined area of the fire stations is 93,400 square feet and is valued at \$47.88 million. The land area associated with the buildings is roughly 4.96 hectares and is valued at \$68.00 million. The 51 vehicles associated with the stations have a replacement value of \$22.61 million. Finally, personal firefighting equipment, communications equipment, and other station equipment add another \$13.48 million to the value of the inventory.

The current replacement value of the Fire Services capital infrastructure is \$151.97 million. It has provided the City with a ten-year average service level of \$315.73 per population and employment. When multiplied by the net population and employment (145,660), the result is a maximum allowable funding envelope of \$45.99 million.

Table B.3-22022 – 2031 Development-Related CapitalProgram & Calculation of the UnadjustedDevelopment Charge

The Fire Services capital program includes a provision for four new fire stations: Thornhill, Markham Centre, FUA North, as well as a 16,000 sq.ft. future facility. The four fire stations require \$21.94 million for the acquisition of land, as well as costs of \$23.41 million for construction and \$1.95 million for furnishings.



Each of the new stations will require a crew of 21 new firefighters. The equipment required to service these firefighters amounts to \$166,299 per station. Lastly, four new fire apparatus vehicles, a prevention car and a pumper truck will be added to the fleet at a cost of \$4.63 million.

The ten-year capital program for Fire Services amounts to \$51.34 million. No grants or replacement shares have been identified for this service; as such, the entire program is deemed to be DC eligible.

After accounting for the \$4.88 million in reserves and the share of \$665,686 which has been deemed other development-related, the resulting amount of \$45.99 million is related to development occurring between the 2022 and 2031 planning period and eligible for DC recovery

The ten-year development-related net capital cost is allocated 62 per cent, or \$28.48 million, against residential development, and 38 per cent, or \$17.51 million, against non-residential development. The allocation between residential and non-residential development is based on shares of forecasted growth. The resulting unadjusted residential development charge is \$315.06 per capita. The non-residential unadjusted charge is allocated between retail, industrial/office/institutional (I.O.I.) and mixed use charges, at rates of \$8.08 per square metre, \$6.52 per square metre, and \$3.94 per square metre respectively.

Table B.3-3 Cash Flow Analysis

After cash flow consideration, the residential charge increases to \$330.46 per capita. The non-residential retail charge increases to \$8.54 per square metre, while the I.O.I. charge increases to \$6.85 per square metre, and the mixed use charge increases to \$4.16 per square metre.

The following table summarizes the calculation of the Fire Services development charge.



10-vear Hist.	20		Adju Developme							
Service Level per pop & emp \$315.73		lelated Capital Program Net DC Recoverable \$45,989,357		Retail \$/sq.m \$8.08	ent Charge I.O.I. \$/sq.m \$6.52	Mixed-Use \$/sq.m \$3.94	Residential \$/capita \$330.46	Retail \$/sq.m \$8.54	I.O.I. \$/sq.m \$6.85	Mixed-Use \$/sq.m \$4.16



CITY OF MARKHAM INVENTORY OF CAPITAL ASSETS FIRE SERVICES

BUILDINGS					# of Squ	are Feet					UNIT COST
Station Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/sq. ft.)
Fire Training Centre - 436 John Street, Thornhill	5,531	5,531	5,531	5,531	5,531	5,531	5,531	5,531	5,531	5,531	\$509
Firehall 91 - 7801 Bayview Ave., Thornhill	8,348	8,348	8,348	8,348	8,348	8,348	8,348	8,348	8,348	8,348	\$509
Firehall 92 - 10 Riviera Drive, Markham	10,800	10,800	10,800	10,800	10,800	10,800	10,800	10,800	10,800	10,800	\$509
Firehall 93 - 2930 Major Mackenzie, Markham	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	\$509
Firehall 94 - 7300 Birchmount, Milliken Mills	7,142	7,142	7,142	7,142	7,142	7,142	7,142	7,142	7,142	7,142	\$509
Firehall 95 - 316 Main Street, Markham	11,846	11,846	11,846	11,846	11,846	11,846	11,846	11,846	11,846	11,846	\$509
Firehall 96 - 5567 14th Avenue, Milliken	8,933	8,933	8,933	8,933	8,933	8,933	8,933	8,933	8,933	8,933	\$509
Firehall 97 - 209 Main Street, Markham	7,669	7,669	7,669	7,669	7,669	7,669	7,669	7,669	7,669	7,669	\$509
Firehall 98 - 650 Bur Oak Avenue, Markham	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	\$509
Firehall 99 - 3255 Bur Oak (Cornell)	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	\$509
8100 Warden	3,165	3,165	3,165	3,165	3,165	3,165	3,165	3,165	3,165	3,165	\$615
Total (sq.ft.)	93,404	93,404	93,404	93,404	93,404	93,404	93,404	93,404	93,404	93,404	
Total (\$000)	\$47,878.1	\$47,878.1	\$47,878.1	\$47,878.1	\$47,878.1	\$47,878.1	\$47,878.1	\$47,878.1	\$47,878.1	\$47,878.1	

LAND					# of Hectares						UNIT COST
Station Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/ha)
Firehall 91 - 7801 Bayview Ave., Thornhill	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	\$13,714,000
Fire Training Centre - 436 John Street, Thornhil	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	\$13,714,000
Firehall 94 - 7300 Birchmount, Milliken Mills	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	\$13,714,000
Firehall 93 - Cathedral	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	\$13,714,000
Firehall 95 - 316 Main Street, Markham	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	\$13,714,000
Firehall 96 - 5567 14th Avenue, Milliken	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	\$13,714,000
Firehall 97 - 209 Main Street, Markham	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	\$13,714,000
Firehall 92 - 10 Riviera Drive, Markham	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	\$13,714,000
Firehall 98 - 650 Bur Oak Avenue, Markham	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	\$13,714,000
Firehall 99 - Bur Oak (Cornell)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	\$13,714,000
8100 Warden	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	\$13,714,000
Total (ha)	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	
Total (\$000)	\$68,002.1	\$68,002.1	\$68,002.1	\$68,002.1	\$68,002.1	\$68,002.1	\$68,002.1	\$68,002.1	\$68,002.1	\$68,002.1	



CITY OF MARKHAM INVENTORY OF CAPITAL ASSETS FIRE SERVICES

VEHICLES					# of Vehicles						UNIT COST
Vehicle Type	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/vehicle)
Aerial Truck	3	3	3	3	3	3	3	3	3	3	\$1,690,000
Aerial Platform	-	-	-	1	1	1	1	1	1	1	\$1,770,000
Batallion Chief Vehicle	2	2	2	2	2	2	2	2	2	2	\$151,812
Command Trailer	1	1	1	1	1	1	1	1	1	1	\$144,500
Flashover Simulator	1	1	1	1	1	1	1	1	1	1	\$87,000
Incident Command Simulator (Smokehouse)	1	1	1	1	1	1	1	1	1	1	\$26,893
Mechanical Vehicles	1	1	1	1	1	1	1	1	1	1	\$32,460
Personnel/ Rehabilitation	1	1	1	1	1	1	1	1	1	1	\$110,941
Propane Simulator Props	2	2	2	2	2	1	1	1	1	1	\$21,400
Pumpers	12	12	12	12	12	12	12	12	12	13	\$1,000,000
Tankers	1	1	1	1	1	1	1	1	1	1	\$493,257
Telesquirts	-	-	-	-	-	-	-	-	-	-	\$975,000
Training Vehicles	4	4	4	4	4	4	4	4	4	4	\$53,590
Fire Prevention Cars	13	14	14	14	14	14	14	14	14	14	\$25,650
Fire Investigation Truck	1	1	1	1	1	1	1	1	1	1	\$31,630
Deputy Fire Chief and Fire Chief Vehicle	3	3	3	3	3	3	3	3	3	3	\$40,800
Supply Van	1	1	1	1	1	1	1	1	1	1	\$50,110
Air Light Truck	1	1	1	1	1	1	1	1	1	1	\$720,000
Hazmat Trailer	1	1	1	1	1	1	1	1	1	1	\$52,530
Total (#)	49	50	50	51	51	50	50	50	50	51	
Total (\$000)	\$19,836.0	\$19,861.6	\$19,861.6	\$21,631.6	\$21,631.6	\$21,610.2	\$21,610.2	\$21,610.2	\$21,610.2	\$22,610.2	

FURNITURE & EQUIPMENT				Total	Value of Furni	ture & Equipm	ent (\$)				UNIT COST
Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/outfit)
Dispatch Centre	\$1,904,882	\$1,904,882	\$1,904,882	\$1,904,882	\$1,904,882	\$1,904,882	\$1,904,882	\$1,904,882	\$1,904,882	\$1,904,882	
Equipment for vehicles	\$4,573,509	\$4,573,509	\$4,573,509	\$4,573,509	\$4,573,509	\$4,573,509	\$4,573,509	\$4,573,509	\$4,573,509	\$4,573,509	
Other Vehicle Equipment	\$460,101	\$460,101	\$460,101	\$460,101	\$460,101	\$460,101	\$460,101	\$460,101	\$460,101	\$460,101	
Fire Training Centre	\$111,446	\$111,446	\$111,446	\$111,446	\$111,446	\$111,446	\$111,446	\$111,446	\$111,446	\$111,446	
Station 91	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	
Station 92	\$489,353	\$489,353	\$489,353	\$489,353	\$489,353	\$489,353	\$489,353	\$489,353	\$489,353	\$489,353	
Station 93	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	
Station 94	\$489,353	\$489,353	\$489,353	\$489,353	\$489,353	\$489,353	\$489,353	\$489,353	\$489,353	\$489,353	
Station 95	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	
Station 96	\$489,353	\$489,353	\$489,353	\$489,353	\$489,353	\$489,353	\$489,353	\$489,353	\$489,353	\$489,353	
Station 97	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	
Station 98	\$578,551	\$578,551	\$578,551	\$578,551	\$578,551	\$578,551	\$578,551	\$578,551	\$578,551	\$578,551	
Station 99	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	\$433,630	
Number of Firefighters	278	278	278	278	278	278	278	278	280	280	\$7,919
2											
Total (\$000)	\$13,466.2	\$13,466.2	\$13,466.2	\$13,466.2	\$13,466.2	\$13,466.2	\$13,466.2	\$13,466.2	\$13,482.0	\$13,482.0	

CITY OF MARKHAM CALCULATION OF SERVICE LEVELS FIRE SERVICES

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Historic Population	306,973	312,329	317,779	323,324	328,966	333,938	338,985	344,109	349,310	354,589
Historic Employment	<u>135,104</u>	137,357	139,685	142,092	144,582	147,517	150,539	153,654	156,862	160,210
Total Population & Employment	442,077	449,686	457,464	465,416	473,548	481,455	489,524	497,763	506,172	514,800

INVENTORY SUMMARY (\$000)

Buildings	\$47,878.1	\$47,878.1	\$47,878.1	\$47,878.1	\$47,878.1	\$47,878.1	\$47,878.1	\$47,878.1	\$47,878.1	\$47,878.1
Land	\$68,002.1	\$68,002.1	\$68,002.1	\$68,002.1	\$68,002.1	\$68,002.1	\$68,002.1	\$68,002.1	\$68,002.1	\$68,002.1
Furniture & Equipment	\$13,466.2	\$13,466.2	\$13,466.2	\$13,466.2	\$13,466.2	\$13,466.2	\$13,466.2	\$13,466.2	\$13,482.0	\$13,482.0
Vehicles	\$19,836.0	\$19,861.6	\$19,861.6	\$21,631.6	\$21,631.6	\$21,610.2	\$21,610.2	\$21,610.2	\$21,610.2	\$22,610.2
Total (\$000)	\$149,182.4	\$149,208.0	\$149,208.0	\$150,978.0	\$150,978.0	\$150,956.6	\$150,956.6	\$150,956.6	\$150,972.5	\$151,972.5

SERVICE LEVEL (\$/pop & emp)

SERVICE LEVEL (\$/pop & emp)											Service Level
Buildings	\$108.30	\$106.47	\$104.66	\$102.87	\$101.11	\$99.44	\$97.81	\$96.19	\$94.59	\$93.00	\$100.44
Land	\$153.82	\$151.22	\$148.65	\$146.11	\$143.60	\$141.24	\$138.91	\$136.62	\$134.35	\$132.09	\$142.66
Furniture & Equipment	\$30.46	\$29.95	\$29.44	\$28.93	\$28.44	\$27.97	\$27.51	\$27.05	\$26.64	\$26.19	\$28.26
Vehicles	\$44.87	\$44.17	\$43.42	\$46.48	\$45.68	\$44.89	\$44.15	\$43.41	\$42.69	\$43.92	\$44.37
Total (\$/pop & emp)	\$337.46	\$331.80	\$326.16	\$324.39	\$318.82	\$313.54	\$308.37	\$303.27	\$298.26	\$295.21	\$315.73

CITY OF MARKHAM CALCULATION OF MAXIMUM ALLOWABLE FIRE SERVICES

10-Year Funding Envelope Calculation									
10 Year Average Service Level 2012 - 2021	\$315.73								
Net Population + Employment Growth 2022 ·	145,660								
Maximum Allowable Funding Envelope	\$45,989,357								



Average

CITY OF MARKHAM DEVELOPMENT-RELATED CAPITAL PROGRAM FIRE SERVICES

				Gross	Grants/	T	Net	Ine	ligible Co	sts	Total				DC	Eligit	ole Costs	
Project Descrip	otion	Timing		Project Cost	Subsidies/Other Recoveries		Municipal Cost		eplaceme BTE Shar		 DC Eligible Costs		Prior Frowth		Available C Reserves		2022- 2031	Other Dev. elated Costs
3.0 FIRE SERVICES																		
3.1 Fire Bu	ildings																	
3.1.1	New Fire Station (10,000 sq. ft.) - Thornhill	2022	\$	5,090,000	\$ -	\$	5,090,000	0%	\$	-	\$ 5,090,000	\$	-	\$	4,881,985	\$	208,015	\$ -
3.1.2	New Fire Station (10,000 sq. ft.) - Markham Centre	2023	\$	5,090,000	\$ -	\$	5,090,000	0%	\$	-	\$ 5,090,000	\$	-	\$	-	\$	5,090,000	\$ -
3.1.3	New Fire Station (10,000 sq. ft.) - FUA (North)	2025	\$	5,090,000	\$ -	\$	5,090,000	0%	\$	-	\$ 5,090,000	\$	-	\$	-	\$	5,090,000	\$ -
3.1.4	Provision for New Fire Station (14,000 sq. ft.)	2030	\$	7,126,000	<u>\$</u> -	\$	7,126,000	0%	\$	-	\$ 7,126,000	\$	-	\$	-	\$	6,460,314	\$ 665,686
	Subtotal Fire Buildings		\$	22,396,000	\$ -	\$	22,396,000		\$	-	\$ 22,396,000	\$	-	\$	4,881,985	\$	16,848,328	\$ 665,686
3.2 Land for	or Fire Buildings																	
3.2.1	New Fire Station (0.4 ha) - Thornhill	2022	ŝ	5,485,600	\$ -	ŝ	5,485,600	0%	\$	-	\$ 5,485,600	ŝ	-	\$	-	\$	5,485,600	\$ -
3.2.2	New Fire Station (0.4 ha) - Markham Centre	2023	\$	5,485,600	\$ -	\$	5,485,600	0%	\$	-	\$ 5,485,600	\$	-	\$	-	\$	5,485,600	\$ -
3.2.3	New Fire Station (0.4 ha) - FUA (North)	2025	\$	5,485,600	\$ -	\$	5,485,600	0%	\$	-	\$ 5,485,600	\$	-	\$	-	\$	5,485,600	\$ -
3.2.4	Provision for New Fire Station (0.4ha)	2030	\$	5,485,600	\$-	\$	5,485,600	0%	\$	-	\$ 5,485,600	5	-	\$	-	\$	5,485,600	\$ -
	Subtotal Land for Fire Buildings		\$	21,942,400	\$-	\$	21,942,400		\$	-	\$ 21,942,400	\$	-	\$	-	\$	21,942,400	\$ -
3.3 Fire Fu	rniture and Equipment																	
3.3.1	New Fire Station - Thornhill	2022	ŝ	433,587	\$ -	\$	433,587	0%	\$	-	\$ 433,587	ŝ	-	\$	-	\$	433,587	\$ -
3.3.2	New Fire Station - Markham Centre	2023	\$	433,587	\$ -	\$	433,587	0%	\$	-	\$ 433,587	\$	-	\$	-	\$	433,587	\$ -
3.3.3	New Fire Station - FUA (North)	2025	\$	433,587	\$ -	\$	433,587	0%	\$	-	\$ 433,587	\$	-	\$	-	\$	433,587	\$ -
3.3.4	Provision for New Fire Station	2030	\$	607,022	\$ -	\$	607,022	0%	\$	-	\$ 607,022	\$	-	\$	-	\$	607,022	\$ -
	Subtotal Fire Furniture and Equipment		\$	1,907,783	\$-	\$	1,907,783		\$	-	\$ 1,907,783	\$	-	\$	-	\$	1,907,783	\$ -
3.4 Firefig	hter Equipment																	
3.4.1	New Fire Station - Thornhill (21 firefighters)	2022	ŝ	166,299	\$ -	\$	166,299	0%	\$	-	\$ 166,299	ŝ	-	\$	-	\$	166,299	\$ -
3.4.2	New Fire Station - Markham Centre (21 firefighters)	2023	\$	166,299	\$ -	\$	166,299	0%	\$	-	\$ 166,299	\$	-	\$	-	\$	166,299	\$ -
3.4.3	New Fire Station - FUA (North) (21 firefighters)	2025	\$	166,299	\$ -	\$	166,299	0%	\$	-	\$ 166,299	\$	-	\$	-	\$	166,299	\$ -
3.4.4	New Fire Station - FUA (North) (21 firefighters)	2030	\$	166,299	\$ -	\$	166,299	0%	\$	-	\$ 166,299	\$	-	\$	-	\$	166,299	\$ -
	Subtotal Firefighter Equipment		\$	665,196	\$-	\$	665,196		\$	-	\$ 665,196	\$	-	\$	-	\$	665,196	\$ -
3.5 Fire Ve	hicles																	
3.5.1	1 Fire Apparatus Vehicle	2022	\$	900,000	\$ -	\$	900,000	0%	\$	-	\$ 900,000	\$	-	\$	-	\$	900,000	\$ -
3.5.2	1 Fire Prevention Car	2023	\$	25,650	\$ -	\$	25,650	0%	\$	-	\$ 25,650	\$	-	\$	-	\$	25,650	\$ -
3.5.3	1 Fire Apparatus Vehicle	2023	\$	900,000	\$ -	\$	900,000	0%	\$	-	\$ 900,000	\$	-	\$	-	\$	900,000	\$ -
3.5.4	1 Fire Apparatus Vehicle	2024	\$	900,000	\$-	\$	900,000	0%	\$	-	\$ 900,000	\$	-	\$	-	\$	900,000	\$ -
3.5.5	1 Fire Apparatus Vehicle	2025	\$	900,000	\$ -	\$	900,000	0%	\$	-	\$ 900,000	\$	-	\$	-	\$	900,000	\$ -
3.5.6	1 Pumper Truck	2030	\$	1,000,000	<u>s</u> -	\$	1,000,000	0%	\$	-	\$ 1,000,000	\$	-	\$	-	\$	1,000,000	\$ -
	Subtotal Fire Vehicles		\$	4,625,650	5 -	\$	4,625,650		\$	-	\$ 4,625,650	\$	-	\$	-	\$	4,625,650	\$ -
TOTAL FIRE SE	RVICES		\$	51,537,029	s -	\$	51,537,029		\$	-	\$ 51,537,029	\$	-	\$	4,881,985	\$	45,989,357	\$ 665,686

Residential Development Charge Calculation		
Residential Share of 2022 - 2031 DC Eligible Costs	61.9%	\$28,475,323
10-Year Growth in Population in New Units		90,381
Unadjusted Development Charge Per Capita		\$315.06
Non-Residential Development Charge Calculation		
Non-Residential Share of 2022 - 2031 DC Eligible Costs	38.1%	\$17,514,034
10-Year Growth in Square Metres		2,550,244
Unadjusted Development Charge Per Square Metre		\$6.87
Non-Residential Development Charge Calculation		
Retail Commercial		
Non-Residential Share of 2022 - 2031 DC Eligible Costs	11.0%	\$ 5,069,927.1
10-Year Growth in Square Metres		627,176
Unadjusted Development Charge Per Square Metre		\$8.08
Industrial/Office/Institutional		
Non-Residential Share of 2022 - 2031 DC Eligible Costs	26.8%	\$ 12,314,109.2
10-Year Growth in Square Metres		1,890,059
Unadjusted Development Charge Per Square Metre		\$6.52
Mixed-Use		
Non-Residential Share of 2022 - 2031 DC Eligible Costs	0.3%	\$ 129,998,1
10-Year Growth in Square Metres		33.009
Unadjusted Development Charge Per Square Metre		\$3.94

2022 - 2031 Net Funding Envelope	\$45,989,357
Reserve Fund Balance	\$4,881,985



TABLE B.3-3

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE FIRE SERVICES RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

FIRE SERVICES	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
OPENING CASH BALANCE	\$3,022.79	(\$1,805.5)	(\$6,882.6)	(\$4,872.6)	(\$10,146.5)	(\$7,445.3)	(\$4,482.0)	(\$1,201.3)	\$2,420.8	(\$3,825.3)	
2022 - 2031 RESIDENTIAL FUNDING REQUIREMENTS											
- Prior Growth (Funding from DC Reserve Balance)	\$3,022.8	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$3,022.8
- Fire Services: Non Inflated	\$4,454.0	\$7,492.7	\$557.3	\$7,476.8	\$0.0	\$0.0	\$0.0	\$0.0	\$8,494.6	\$0.0	\$28,475.3
- Fire Services: Inflated	\$7,476.8	\$7,642.5	\$579.8	\$7,934.4	\$0.0	\$0.0	\$0.0	\$0.0	\$9,952.7	\$0.0	\$33,586.3
NEW RESIDENTIAL DEVELOPMENT											
- Population Growth in New Units	8,094	8,301	8,514	8,733	8,955	9,085	9,315	9,549	9,792	10,043	90,381
REVENUE											
- DC Receipts: Inflated	\$2,674.7	\$2,798.0	\$2,927.2	\$3,062.5	\$3,203.2	\$3,314.7	\$3,466.6	\$3,624.8	\$3,791.3	\$3,966.3	\$32,829.4
INTEREST											
- Interest on Opening Balance	\$105.8	(\$99.3)	(\$378.5)	(\$268.0)	(\$558.1)	(\$409.5)	(\$246.5)	(\$66.1)	\$84.7	(\$210.4)	(\$2,045.8)
- Interest on In-year Transactions	(\$132.1)	(\$133.2)	\$41.1	(\$134.0)	\$56.1	\$58.0	\$60.7	\$63.4	(\$169.4)	\$69.4	(\$220.0)
TOTAL REVENUE	\$2,648.5	\$2,565.5	\$2,589.7	\$2,660.6	\$2,701.2	\$2,963.2	\$3,280.7	\$3,622.1	\$3,706.6	\$3,825.3	\$30,563.5
CLOSING CASH BALANCE	(\$1,805.5)	(\$6,882.6)	(\$4,872.6)	(\$10,146.5)	(\$7,445.3)	(\$4,482.0)	(\$1,201.3)	\$2,420.8	(\$3,825.3)	\$0.0	

2022 Adjusted Charge Per Capita	
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\$330.46

Allocation of Capital Program Residential Sector	61.9%
Non-Residential Sector	38.1%
Non-Nesidential Sector	30.1%
Rates for 2022	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



TABLE B.3-3

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE FIRE SERVICES RETAIL NON-RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

FIRE SERVICES	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
OPENING CASH BALANCE	\$538.20	(\$375.21)	(\$1,327.09)	(\$1,009.47)	(\$1,980.18)	(\$1,519.46)	(\$992.49)	(\$392.71)	\$287.27	(\$764.09)	
2022 - 2031 NON-RESIDENTIAL FUNDING REQUIREMENTS											
- Prior Growth (Funding from DC Reserve Balance) - Fire Services: Non Inflated - Fire Services: Inflated	\$538.2 \$793.0 \$1,331.2	\$0.0 \$1,334.0 \$1,360.7	\$0.0 \$99.2 \$103.2	\$0.0 \$1,331.2 \$1,412.7	\$0.0 \$0.0 \$0.0	\$0.0 \$0.0 \$0.0	\$0.0 \$0.0 \$0.0	\$0.0 \$0.0 \$0.0	\$0.0 \$1,512.4 \$1,772.0	\$0.0 \$0.0 \$0.0	\$538.2 \$5,069.9 \$5,979.9
NON-RESIDENTIAL SPACE GROWTH - RETAIL - Growth in Square Metres	49,648	52,174	54,834	57,608	60,572	63,650	66,880	70,300	73,872	77,638	627,176.00
REVENUE - DC Receipts: Inflated	\$423.9	\$454.4	\$487.1	\$522.0	\$559.8	\$600.0	\$643.1	\$689.5	\$739.0	\$792.3	\$5,911.2
INTEREST											
 Interest on Opening Balance Interest on In-year Transactions 	\$18.8 (\$25.0)	(\$20.6) (\$24.9)	(\$73.0) \$6.7	(\$55.5) (\$24.5)	(\$108.9) \$9.8	(\$83.6) \$10.5	(\$54.6) \$11.3	(\$21.6) \$12.1	\$10.1 (\$28.4)	(\$42.0) \$13.9	(\$430.9) (\$38.6)
TOTAL REVENUE	\$417.8	\$408.8	\$420.8	\$442.0	\$460.7	\$527.0	\$599.8	\$680.0	\$720.7	\$764.1	\$5,441.7
CLOSING CASH BALANCE	(\$375.2)	(\$1,327.1)	(\$1,009.5)	(\$1,980.2)	(\$1,519.5)	(\$992.5)	(\$392.7)	\$287.3	(\$764.1)	(\$0.0)	

2022 Adjusted Charge Per Square Metre	\$8.54
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Allocation of Capital Program	
Retail Sector	11.0%
Industrial/Office/Institutional Sector	26.8%
Mixed-Use	0.3%
Rates for 2022	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



TABLE B.3-3

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE FIRE SERVICES INDUSTRIAL/OFFICE/INSTITUTIONAL NON-RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

FIRE SERVICES	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
OPENING CASH BALANCE	\$1,307.20	(\$814.48)	(\$3,041.56)	(\$2,200.30)	(\$4,505.68)	(\$3,356.81)	(\$2,072.02)	(\$640.17)	\$951.23	(\$1,708.46)	
2022 - 2031 NON-RESIDENTIAL FUNDING REQUIREMENTS											
 Prior Growth (Funding from DC Reserve Balance) Fire Services: Non Inflated Fire Services: Inflated 	\$1,307.2 \$1,926.1 \$3,233.3	\$0.0 \$3,240.2 \$3,305.0	\$0.0 \$241.0 \$250.7	\$0.0 \$3,233.3 \$3,431.2	\$0.0 \$0.0 \$0.0	\$0.0 \$0.0 \$0.0	\$0.0 \$0.0 \$0.0	\$0.0 \$0.0 \$0.0	\$0.0 \$3,673.5 \$4,304.0	\$0.0 \$0.0 \$0.0	\$1,307.2 \$12,314.1 \$14,524.3
NON-RESIDENTIAL SPACE GROWTH - I.O.I. - Growth in Square Metres	164,145	169,120	174,338	179,648	185,208	191,032	197,025	203,257	209,805	216,481	1,890,059
REVENUE - DC Receipts: Inflated	\$1,123.9	\$1,181.1	\$1,241.9	\$1,305.3	\$1,372.7	\$1,444.1	\$1,519.2	\$1,598.6	\$1,683.1	\$1,771.4	\$14,241.5
INTEREST - Interest on Opening Balance - Interest on In-year Transactions	\$45.8 (\$58.0)	(\$44.8) (\$58.4)	(\$167.3) \$17.3	(\$121.0) (\$58.5)	(\$247.8) \$24.0	(\$184.6) \$25.3	(\$114.0) \$26.6	(\$35.2) \$28.0	\$33.3 (\$72.1)	(\$94.0) \$31.0	(\$929.6) (\$94.8)
TOTAL REVENUE	\$1,111.6	\$1,077.9	\$1,092.0	\$1,125.9	\$1,148.9	\$1,284.8	\$1,431.9	\$1,591.4	\$1,644.4	\$1,708.5	\$13,217.1
CLOSING CASH BALANCE	(\$814.5)	(\$3,041.6)	(\$2,200.3)	(\$4,505.7)	(\$3,356.8)	(\$2,072.0)	(\$640.2)	\$951.2	(\$1,708.5)	\$0.0	

2022 Adjusted Charge Per Square Metre	\$6.85
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Allocation of Capital Program	
Retail Sector	11.0%
Industrial/Office/Institutional Sector	26.8%
Mixed-Use	0.3%
Rates for 2022	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



TABLE B.3-3

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE FIRE SERVICES MIXED-USE NON-RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

FIRE SERVICES	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
OPENING CASH BALANCE	\$13.80	(\$9.62)	(\$34.03)	(\$25.88)	(\$50.77)	(\$38.96)	(\$25.45)	(\$10.07)	\$7.37	(\$19.59)	
2022 - 2031 NON-RESIDENTIAL FUNDING REQUIREMENTS											
- Prior Growth (Funding from DC Reserve Balance)	\$13.8	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$13.8
- Fire Services: Non Inflated	\$20.3	\$34.2	\$2.5	\$34.1	\$0.0	\$0.0	\$0.0	\$0.0	\$38.8	\$0.0	\$130.0
- Fire Services: Inflated	\$34.1	\$34.9	\$2.6	\$36.2	\$0.0	\$0.0	\$0.0	\$0.0	\$45.4	\$0.0	\$153.3
NON-RESIDENTIAL SPACE GROWTH - MIXED-USE											
- Growth in Square Metres	2,613	2,746	2,886	3,032	3,188	3,350	3,520	3,700	3,888	4,086	33,009
REVENUE											
- DC Receipts: Inflated	\$10.9	\$11.7	\$12.5	\$13.4	\$14.4	\$15.4	\$16.5	\$17.7	\$18.9	\$20.3	\$151.6
INTEREST											
- Interest on Opening Balance	\$0.5	(\$0.5)	(\$1.9)	(\$1.4)	(\$2.8)	(\$2.1)	(\$1.4)	(\$0.6)	\$0.3	(\$1.1)	(\$11.0)
- Interest on In-year Transactions	(\$0.6)	(\$0.6)	\$0.2	(\$0.6)	\$0.3	\$0.3	\$0.3	\$0.3	(\$0.7)	\$0.4	(\$1.0)
TOTAL REVENUE	\$10.7	\$10.5	\$10.8	\$11.3	\$11.8	\$13.5	\$15.4	\$17.4	\$18.5	\$19.6	\$139.5
CLOSING CASH BALANCE	(\$9.6)	(\$34.0)	(\$25.9)	(\$50.8)	(\$39.0)	(\$25.4)	(\$10.1)	\$7.4	(\$19.6)	\$0.0	

2022 Adjusted Charge Per Square Metre	
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\$4.16

Allocation of Capital Program	
Retail Sector	11.0%
Industrial/Office/Institutional Sector	26.8%
Mixed-Use	0.3%
Rates for 2022	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



Appendix B.4 Indoor Recreation



Appendix B.4: Indoor Recreation

The City of Markham Recreation Department is responsible for the indoor recreation and leisure needs of the community, including the provision and maintenance of arenas, facilities, recreation services and programs to the residents of Markham.

Table B.4-12012 - 2021 Historical Service Levels

Table B.4-1 displays the Indoor Recreation ten-year historical inventory for buildings, land, and equipment. The building space, which is categorized by Halls and Meeting Rooms, Ice Pads, Indoor Soccer, Indoor Pools, Fitness Centres, Gymnasiums, Senior Centres, and Common Space in Major Community Centres, totals almost 1.29 million square feet of Indoor Recreation space, which is valued at \$730.92 million. The land associated with the buildings amounts to 46.17 hectares and is valued at \$633.20 million. The equipment found in the facilities has a total value of \$14.64 million and the 305 parking spaces adds an additional \$11.93 million to the total value of the inventory.

A portion of the Markham Pan Am Centre is related to the Indoor Recreation negative DC reserve fund balance included for recovery in the capital program. As such, a portion of the facility, including buildings, land and equipment has been removed from the historical inventory calculated.

This share has been calculated by dividing the value of the negative reserve fund balance (\$46.86 million) by the total value of the (\$165.02 million) to yield an adjustment factor of 28 per cent. The adjustment factor is then multiplied by the total GFA of the Markham Pan Am Facility to compute the space that has been allocated to excess capacity.



After the adjustment for the Markham Pan Am Centre, the 2021 full replacement value of the inventory of capital assets for Indoor Recreation amounts to \$1.39 billion and a ten-year historical average service level is \$3,873.12 per capita.

The historical service level multiplied by the ten-year forecast of net population growth (90,070) to yield a ten-year maximum allowable funding envelope of \$348.85 million.

Table B.4-22022 – 2031 Development-Related CapitalProgram & Calculation of the UnadjustedDevelopment Charge

The capital program for Indoor Recreation totals \$348.94 million and includes the recovery of the negative reserve fund balance of \$46.85 million. Construction and/or expansion of eight major facilities as well as the accompanying land, furniture and equipment are also included.

Of the \$175.33 million associated with the construction and/or expansion of major facilities, the largest share (\$73.80 million) is associated with the new 120,000 square foot indoor rec facility in East Markham which is slated to open in 2030. A 39,000 square foot expansion of the Milken Mills Facility (totaling \$23.99 million) and a two-phase future facility in the FUA (totaling \$55.35 million) are other notable facility works expected to take place over the 2022 – 2031 planning period.

The land included in the capital program totals eight hectares of land amounting to \$109.60 million and \$17.16 million in costs allocated to furniture and equipment.

No grants, subsidies, replacement shares, or other recoveries are anticipated to fund any shares of the above mentioned projects and, as such, the net cost to the municipality remains at \$348.94 million.



A share of \$18.45 million associated with the East Markham Facility has been allocated to other development-related costs and will be examined for recovery in subsequent DC studies, subject to service level restrictions, other growth-funding tools or other funding sources.

The 2022 - 2031 DC costs eligible for recovery amount to \$330.49 million which is allocated entirely against future residential development in the City of Markham. When divided by the 10-year population growth in new units (90,380), an unadjusted development charge of \$3,656.60 per capita is the result.

Table B.4-3Cash Flow Analysis

After cash flow consideration, the residential calculated charge decreases slightly to \$3,649.65 per capita. This is a reflection of the timing of the capital program and development charges revenues.

The following table summarizes the calculation of the indoor recreation development charge:

			INDOO	R RECREA	TION SUM	MARY				
				Unad	justed			Adju	sted	
10-year Hist.	20	22 - 2031		Developme	ent Charge			Developme	ent Charge	
Service Level	Development-R	elated Capital Program	Residential	Retail	I.O.I.	Mixed-Use	Residential	Retail	I.O.I.	Mixed-Us
per capita	Total	Net DC Recoverable	\$/capita	\$/sq.m	\$/sq.m	\$/sq.m	\$/capita	\$/sq.m	\$/sq.m	\$/sq.m
\$3,873.12	\$348,936,932	\$330,486,932	\$3,656.60	\$0.00	\$0.00	\$0.00	\$3,649.65	\$0.00	\$0.00	\$0.00



HALLS AND MEETING ROOMS					# of Squ	are Feet					UNIT COST
Facility Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/sq. ft.)
Aaniin Community Centre	-	-	-	-	-	18,536	18,536	18,536	18,536	18,536	\$615
Aaniin Community Centre (excess capacity)	-	-	-	-	-	-	-	-	-	-	\$615
Angus Glen Community Centre	12,498	12,498	12,498	12,498	12,498	12,498	12,498	12,498	12,498	12,498	\$615
Angus Glen Tennis Centre	350	350	350	350	350	350	350	350	350	350	\$440
Armadale Community Centre	5,460	5,460	5,460	5,460	5,460	5,460	5,460	5,460	5,460	5,460	\$440
Box Grove Community Centre	5,920	5,920	5,920	5,920	5,920	5,920	5,920	5,920	5,920	5,920	\$410
Buttonville Women's Institute	5,360	5,360	5,360	5,360	5,360	5,360	5,360	5,360	5,360	5,360	\$410
Cedar Grove Community Centre	3,562	3,562	3,562	3,562	3,562	3,562	3,562	3,562	3,562	3,562	\$410
Centennial Community Centre	9,173	9,173	9,173	9,173	9,173	9,173	9,173	9,173	9,173	9,173	\$615
Cornell Community Centre	-	20,868	20,868	20,868	20,868	20,868	20,868	20,868	20,868	20,868	\$615
Crosby Memorial Community Centre	5,521	5,521	5,521	5,521	5,521	5,521	5,521	5,521	5,521	5,521	\$440
German Mills Community Centre	1,983	1,983	1,983	1,983	1,983	1,983	1,983	1,983	1,983	1,983	\$410
Heintzman House	14,266	14,266	14,266	14,266	14,266	14,266	14,266	14,266	14,266	14,266	\$656
Main St. Markham Craft Guild	3,702	3,702	3,702	3,702	3,702	3,702	3,702	3,702	3,702	3,702	\$410
Markham Pan Am Centre	-	-	-	5,618	5,618	5,618	5,618	5,618	5,618	5,618	\$615
Markham Pan Am Centre (excess capacity)	-	-	-	(1,595)	(1,595)	(1,595)	(1,595)	(1,595)	(1,595)	(1,595)	\$615
Markham Train Station	2,262	2,262	2,262	2,262	2,262	2,262	2,262	2,262	2,262	2,262	\$656
Markham Village Community Centre	6,568	6,568	6,568	6,568	6,568	6,568	6,568	6,568	6,568	6,568	\$440
McKay House	3,116	3,116	3,116	3,116	3,116	3,116	3,116	3,116	3,116	3,116	\$656
Milliken Mills Community Centre	9,956	9,956	9,956	9,956	9,956	9,956	9,956	9,956	9,956	9,956	\$615
Museum Education Building	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	\$382
Old Unionville Library Community Centre	3,369	3,369	3,369	3,369	3,369	3,369	3,369	3,369	3,369	3,369	\$440
Rouge River Community Centre	12,160	12,160	12,160	12,160	12,160	12,160	12,160	12,160	12,160	12,160	\$440
Thornhill Community Centre	20,808	20,808	20,808	20,808	20,808	20,808	20,808	20,808	20,808	20,808	\$615
Unionville Stiver Mill Community Centre	-	-	4,715	4,715	4,715	4,715	4,715	4,715	4,715	4,715	\$656
Unionville Train Station	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	\$656
Varley Art Gallery (meeting room)	1,695	1,695	1,695	1,695	1,695	1,695	1,695	1,695	1,695	1,695	\$492
Victoria Square Community Centre	8,774	8,774	8,774	8,774	8,774	8,774	8,774	8,774	8,774	8,774	\$410
Warden House	5,296	5,296	5,296	5,296	5,296	5,296	5,296	5,296	5,296	5,296	\$656
YMCA	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	\$567
Total (sq.ft.)	164,480	185,348	190,063	194,085	194,085	212,621	212,621	212,621	212,621	212,621	
Total (\$000)	\$88,942.8	\$101,776.6	\$104,869.4	\$107,343.5	\$107,343.5	\$118,743.1	\$118,743.1	\$118,743.1	\$118,743.1	\$118,743.1	



ICE PADS					# of Squ	are Feet					UNIT COST
Facility Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/sq. ft.)
Angus Glen Community Centre	69,126	69,126	69,126	69,126	69,126	69,126	69,126	69,126	69,126	69,126	\$552
Centennial Community Centre	45,187	45,187	45,187	45,187	45,187	45,187	45,187	45,187	45,187	45,187	\$552
Crosby Memorial Community Centre	26,166	26,166	26,166	26,166	26,166	26,166	26,166	26,166	26,166	26,166	\$552
Markham Village Community Centre	28,889	28,889	28,889	28,889	28,889	28,889	28,889	28,889	28,889	28,889	\$552
Milliken Mills Community Centre	33,054	33,054	33,054	33,054	33,054	33,054	33,054	33,054	33,054	33,054	\$552
Mt. Joy Community Centre	29,309	29,309	29,309	29,309	29,309	29,309	29,309	29,309	29,309	29,309	\$552
R.J. Clatworthy Arena	32,329	32,329	32,329	32,329	32,329	32,329	32,329	32,329	32,329	32,329	\$552
Thornhill Community Centre	68,520	68,520	68,520	68,520	68,520	68,520	68,520	68,520	68,520	68,520	\$552
Total (sq.ft.)	332,580	332,580	332,580	332,580	332,580	332,580	332,580	332,580	332,580	332,580	
Total (\$000)	\$183,584.2	\$183,584.2	\$183,584.2	\$183,584.2	\$183,584.2	\$183,584.2	\$183,584.2	\$183,584.2	\$183,584.2	\$183,584.2	

INDOOR SOCCER					# of Squa	re Feet					UNIT COST
Facility Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/sq. ft.)
Milliken Soccer Dome	29,651	29,651	29,651	29,651	29,651	29,651	29,651	29,651	29,651	29,651	\$164
Mt. Joy Community Centre	24,178	24,178	24,178	24,178	24,178	24,178	24,178	24,178	24,178	24,178	\$295
St. Robert Soccer Dome	-	27,000	27,000	27,000	27,000	27,000	27,000	27,000	27,000	27,000	\$164
Total (sq.ft.)	53,829	80,829	80,829	80,829	80,829	80,829	80,829	80,829	80,829	80,829	
Total (\$000)	\$11,995.3	\$16,423.3	\$16,423.3	\$16,423.3	\$16,423.3	\$16,423.3	\$16,423.3	\$16,423.3	\$16,423.3	\$16,423.3	

Indoor Pool					# of Squ	are Feet					UNIT COST
Facility Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/sq. ft.)
Aaniin Community Centre	-	-	-	-	-	24,593	24,593	24,593	24,593	24,593	\$718
Angus Glen Community Centre	24,364	24,364	24,364	24,364	24,364	24,364	24,364	24,364	24,364	24,364	\$718
Centennial Community Centre	19,062	19,062	19,062	19,062	19,062	19,062	19,062	19,062	19,062	19,062	\$718
Cornell Community Centre	-	26,303	26,303	26,303	26,303	26,303	26,303	26,303	26,303	26,303	\$718
Markham Pan Am Centre	-	-	-	45,803	45,803	45,803	45,803	45,803	45,803	45,803	\$1,440
Markham Pan Am Centre (excess capacity)	-	-	-	(13,005)	(13,005)	(13,005)	(13,005)	(13,005)	(13,005)	(13,005)	\$1,440
Milliken Mills Community Centre	23,950	23,950	23,950	23,950	23,950	23,950	23,950	23,950	23,950	23,950	\$718
Thornlea Pool	16,352	16,352	16,352	16,352	16,352	16,352	16,352	16,352	16,352	16,352	\$718
Total (sq.ft.)	83,728	110,031	110,031	142,829	142,829	167,422	167,422	167,422	167,422	167,422	
Total (\$000)	\$60,116.7	\$79,002.3	\$79,002.3	\$126,231.9	\$126,231.9	\$143,889.7	\$143,889.7	\$143,889.7	\$143,889.7	\$143,889.7	



Fitness Centres					# of Squar	e Feet					UNIT COST
Facility Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/sq. ft.)
Aaniin Community Centre	-	-	-	-	-	6,476	6,476	6,476	6,476	6,476	\$61
Centennial Community Centre	9,229	9,229	9,229	9,229	9,229	9,229	9,229	9,229	9,229	9,229	\$61
Cornell Community Centre	-	8,616	8,616	8,616	8,616	8,616	8,616	8,616	8,616	8,616	\$615
Markham Pan Am Centre	-	-	-	5,564	5,564	5,564	5,564	5,564	5,564	5,564	\$61
Markham Pan Am Centre (excess capacity)	-	-	-	(1,580)	(1,580)	(1,580)	(1,580)	(1,580)	(1,580)	(1,580)	\$61
Thornhill Community Centre	19,762	19,762	19,762	19,762	19,762	19,762	19,762	19,762	19,762	19,762	\$61
Total (sq.ft.)	28,991	37,607	37,607	41,591	41,591	48,067	48,067	48,067	48,067	48,067	
Total (\$000)	\$17,829.5	\$23,128.3	\$23,128.3	\$25,578.6	\$25,578.6	\$29,561.4	\$29,561.4	\$29,561.4	\$29,561.4	\$29,561.4	

Gymnasium					# of Squ	are Feet					UNIT COST
Facility Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/sq. ft.)
Aaniin Community Centre	-	-	-	-	-	13,960	13,960	13,960	13,960	13,960	\$395
Angus Glen Community Centre	9,598	9,598	9,598	9,598	9,598	9,598	9,598	9,598	9,598	9,598	\$395
Angus Glen Tennis Centre	21,000	21,000	21,000	21,000	21,000	21,000	21,000	21,000	21,000	21,000	\$395
Armadale Community Centre	10,858	10,858	10,858	10,858	10,858	10,858	10,858	10,858	10,858	10,858	\$395
Centennial Community Centre	3,890	3,890	3,890	3,890	3,890	3,890	3,890	3,890	3,890	3,890	\$395
Cornell Community Centre	-	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	\$395
Flowervale Public School	4,060	4,060	4,060	4,060	4,060	4,060	4,060	4,060	4,060	4,060	\$395
Markham Pan Am Centre	-	-	-	33,727	33,727	33,727	33,727	33,727	33,727	33,727	\$395
Markham Pan Am Centre (excess capacity)	-	-	-	(9,576)	(9,576)	(9,576)	(9,576)	(9,576)	(9,576)	(9,576)	\$395
Reesor Park Public School	3,320	3,320	3,320	3,320	3,320	3,320	3,320	3,320	3,320	3,320	\$395
Thornhill Community Centre	3,809	3,809	3,809	3,809	3,809	3,809	3,809	3,809	3,809	3,809	\$395
Thornlea	10,648	10,648	10,648	10,648	10,648	10,648	10,648	10,648	10,648	10,648	\$395
Total (sq.ft.)	67,183	80,183	80,183	104,334	104,334	118,294	118,294	118,294	118,294	118,294	
Total (\$000)	\$26,537.3	\$31,672.3	\$31,672.3	\$41,212.0	\$41,212.0	\$46,726.2	\$46,726.2	\$46,726.2	\$46,726.2	\$46,726.2	



Senior Centres					# of Squ	iare Feet					UNIT COST
Facility Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/sq. ft.)
Aaniin Community Centre	-	-	-	-	-	1,723	1,723	1,723	1,723	1,723	\$615
Cornell Community Centre	-	1,055	1,055	1,055	1,055	1,055	1,055	1,055	1,055	1,055	\$615
Markham Seniors Activity Centre	14,139	14,139	14,139	14,139	14,139	14,139	14,139	14,139	14,139	14,139	\$230
Thornhill Seniors Centre	6,720	6,720	6,720	6,720	6,720	6,720	6,720	6,720	6,720	6,720	\$615
Total (sq.ft.)	20,859	21,914	21,914	21,914	21,914	23,637	23,637	23,637	23,637	23,637	
Total (\$000)	\$7,384.8	\$8,033.6	\$8,033.6	\$8,033.6	\$8,033.6	\$9,093.2	\$9,093.2	\$9,093.2	\$9,093.2	\$9,093.2	

Common Space - Major Community Centres					# of Squ	are Feet					UNIT COST
Facility Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/sq. ft.)
Aaniin Community Centre	-	-	-	-	-	41,780	41,780	41,780	41,780	41,780	\$615
Angus Glen Community Centre	33,905	33,905	33,905	33,905	33,905	33,905	33,905	33,905	33,905	33,905	\$615
Angus Glen Tennis Centre	10,500	10,500	10,500	10,500	10,500	10,500	10,500	10,500	10,500	10,500	\$440
Armadale Community Centre	7,239	7,239	7,239	7,239	7,239	7,239	7,239	7,239	7,239	7,239	\$440
Centennial Community Centre	26,406	26,406	26,406	26,406	26,406	26,406	26,406	26,406	26,406	26,406	\$615
Cornell Community Centre	-	58,118	58,118	58,118	58,118	58,118	58,118	58,118	58,118	58,118	\$615
Crosby Community Centre	2,606	2,606	2,606	2,606	2,606	2,606	2,606	2,606	2,606	2,606	\$440
Heintzman House	1,660	1,660	1,660	1,660	1,660	1,660	1,660	1,660	1,660	1,660	\$656
Markham Pan Am Centre	-	-	-	56,288	56,288	56,288	56,288	56,288	56,288	56,288	\$615
Markham Pan Am Centre (excess capacity)	-	-	-	(15,982)	(15,982)	(15,982)	(15,982)	(15,982)	(15,982)	(15,982)	\$615
Markham Village Community Centre	11,096	11,096	11,096	11,096	11,096	11,096	11,096	11,096	11,096	11,096	\$440
Milliken Mills Community Centre	19,613	19,613	19,613	19,613	19,613	19,613	19,613	19,613	19,613	19,613	\$615
Milliken Mills Soccer Dome Facility	3,731	3,731	3,731	3,731	3,731	3,731	3,731	3,731	3,731	3,731	\$440
Mount Joy Community Centre	4,295	4,295	4,295	4,295	4,295	4,295	4,295	4,295	4,295	4,295	\$440
Rouge River Community Centre	6,180	6,180	6,180	6,180	6,180	6,180	6,180	6,180	6,180	6,180	\$440
St. Robert Soccer Dome Facility	-	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	\$440
Thornhill Community Centre	41,048	41,048	41,048	41,048	41,048	41,048	41,048	41,048	41,048	41,048	\$615
Total (sq.ft.)	168,279	228,897	228,897	269,203	269,203	310,983	310,983	310,983	310,983	310,983	
Total (\$000)	\$95,571.4	\$132,414.0	\$132,414.0	\$157,202.4	\$157,202.4	\$182,897.1	\$182,897.1	\$182,897.1	\$182,897.1	\$182,897.1	



TABLE B.4-1

Parking Structures		# of Parking Spaces												
Facility Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/space)			
Cornell Community Centre	-	305	305	305	305	305	305	305	305	305	\$39,100			
Total (#)	-	305	305	305	305	305	305	305	305	305				
Total (\$000)	\$0.0	\$11,925.5	\$11,925.5	\$11,925.5	\$11,925.5	\$11,925.5	\$11,925.5	\$11,925.5	\$11,925.5	\$11,925.5				

Land					# of He	ectares					UNIT COST
Facility Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/ha)
Aaniin Community Centre	-	-	-	-	-	2.93	2.93	2.93	2.93	2.93	\$13,714,000
Angus Glen Community Centre	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	\$13,714,000
Armadale Community Centre	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	\$13,714,000
Box Grove Community Centre	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	\$13,714,000
Buttonville Women's Institute	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	\$13,714,000
Cedar Grove Community Centre	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	\$13,714,000
Centennial Community Centre	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	\$13,714,000
Cornell Community Centre	-	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	\$13,714,000
Crosby Memorial Community Centre	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	\$13,714,000
German Mills Community Centre	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	\$13,714,000
Heintzman House	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	\$13,714,000
Rouge River Community Centre	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	\$13,714,000
Markham Village Community Centre	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	\$13,714,000
Markham Pan Am Centre	-	-	-	3.10	3.10	3.10	3.10	3.10	3.10	3.10	\$13,714,000
Markham Pan Am Centre (excess capacity)	-	-	-	(0.88)	(0.88)	(0.88)	(0.88)	(0.88)	(0.88)	(0.88)	\$13,714,000
Markham Seniors Activity Centre	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	\$13,714,000
Markham Train Station	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	\$13,714,000
McKay House	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	\$13,714,000
Milliken Mills Community Centre	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	\$13,714,000
Milliken Soccer Dome	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	\$13,714,000
Mt. Joy Community Centre	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	\$13,714,000
Museum Education Building	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	\$13,714,000
Old Unionville Library Community Centre	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.17	0.17	0.17	\$13,714,000
R.J. Clatworthy Arena	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	\$13,714,000
St. Robert Catholic High School	-	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	\$13,714,000
Thornhill Community Centre	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	\$13,714,000
Unionville Stiver Mill Community Centre	-	-	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	\$13,714,000
Unionville Train Station	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	\$13,714,000
Varley Art Gallery (Meeting room)	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	\$13,714,000
Victoria Square Community Centre	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	\$13,714,000
Warden House	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	\$13,714,000
Total (ha)	37.04	40.80	41.08	43.30	43.30	46.23	46.23	46.17	46.17	46.17	
Total (\$000)	\$508,025.1	\$559,556.8	\$563,396.7	\$593,839.5	\$593,839.5	\$634,021.5	\$634,021.5	\$633,198.7	\$633,198.7	\$633,198.7	



Furniture & Equipment				Tota	al Value of Furnit	ure & Equipment (\$)			
Facility Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Aaniin Community Centre	-	-	-	-	-	\$3,561,637	\$3,561,637	\$3,561,637	\$3,561,637	\$3,561,637
Angus Glen Community Centre	\$1,385,350	\$1,385,350	\$1,385,350	\$1,385,350	\$1,385,350	\$1,385,350	\$1,385,350	\$1,385,350	\$1,385,350	\$1,385,350
Armadale Community Centre	\$230,514	\$230,514	\$230,514	\$230,514	\$230,514	\$230,514	\$230,514	\$230,514	\$230,514	\$230,514
Box Grove Community Centre	\$4,944	\$4,944	\$4,944	\$4,944	\$4,944	\$4,944	\$4,944	\$4,944	\$4,944	\$4,944
Buttonville Women's Institute	\$7,313	\$7,313	\$7,313	\$7,313	\$7,313	\$7,313	\$7,313	\$7,313	\$7,313	\$7,313
Cedar Grove Community Centre	\$39,449	\$39,449	\$39,449	\$39,449	\$39,449	\$39,449	\$39,449	\$39,449	\$39,449	\$39,449
Centennial Community Centre	\$1,140,519	\$1,140,519	\$1,140,519	\$1,140,519	\$1,140,519	\$1,140,519	\$1,140,519	\$1,140,519	\$1,140,519	\$1,140,519
Cornell Community Centre	-	\$2,768,022	\$2,768,022	\$2,768,022	\$2,768,022	\$2,768,022	\$2,768,022	\$2,768,022	\$2,768,022	\$2,768,022
Crosby Memorial Community Centre	\$252,453	\$252,453	\$252,453	\$252,453	\$252,453	\$252,453	\$252,453	\$252,453	\$252,453	\$252,453
German Mills Community Centre	\$13,081	\$13,081	\$13,081	\$13,081	\$13,081	\$13,081	\$13,081	\$13,081	\$13,081	\$13,081
Heintzman House	\$38,934	\$38,934	\$38,934	\$38,934	\$38,934	\$38,934	\$38,934	\$38,934	\$38,934	\$38,934
Markham Village Community Centre	\$348,037	\$348,037	\$348,037	\$348,037	\$348,037	\$348,037	\$348,037	\$348,037	\$348,037	\$348,037
Markham Pan Am Centre	-	-	-	\$1,730,812	\$1,730,812	\$1,730,812	\$1,730,812	\$1,730,812	\$1,730,812	\$1,730,812
Markham Pan Am Centre (excess capacity)	-	-	-	(\$491,421)	(\$491,421)	(\$491,421)	(\$491,421)	(\$491,421)	(\$491,421)	(\$491,421)
Milliken Mills Community Centre	\$786,714	\$786,714	\$786,714	\$786,714	\$786,714	\$786,714	\$786,714	\$786,714	\$786,714	\$786,714
Mount Joy Community Centre	\$793,615	\$793,615	\$793,615	\$793,615	\$793,615	\$793,615	\$793,615	\$793,615	\$793,615	\$793,615
Old Unionville Library Community Centre	\$40,685	\$40,685	\$40,685	\$40,685	\$40,685	\$40,685	\$40,685	\$40,685	\$40,685	\$40,685
R.J. Clatworthy Arena	\$283,559	\$283,559	\$283,559	\$283,559	\$283,559	\$283,559	\$283,559	\$283,559	\$283,559	\$283,559
Rouge River Community Centre	\$125,557	\$125,557	\$125,557	\$125,557	\$125,557	\$125,557	\$125,557	\$125,557	\$125,557	\$125,557
St. Robert Catholic High School	\$0	\$45,526	\$45,526	\$45,526	\$45,526	\$45,526	\$45,526	\$45,526	\$45,526	\$45,526
Thornhill Community Centre	\$1,080,264	\$1,080,264	\$1,080,264	\$1,080,264	\$1,080,264	\$1,080,264	\$1,080,264	\$1,080,264	\$1,080,264	\$1,080,264
Thornlea Pool	\$102,588	\$102,588	\$102,588	\$102,588	\$102,588	\$102,588	\$102,588	\$102,588	\$102,588	\$102,588
Unionville Stiver Mill Community Centre	-	-	\$4,635	\$4,635	\$4,635	\$4,635	\$4,635	\$4,635	\$4,635	\$4,635
Unionville Train Station	\$5,665	\$5,665	\$5,665	\$5,665	\$5,665	\$5,665	\$5,665	\$5,665	\$5,665	\$5,665
Victoria Square	\$10,815	\$10,815	\$10,815	\$10,815	\$10,815	\$10,815	\$10,815	\$10,815	\$10,815	\$10,815
Warden House	\$38,728	\$38,728	\$38,728	\$38,728	\$38,728	\$38,728	\$38,728	\$38,728	\$38,728	\$38,728
Water Street Seniors Centre	\$74,675	\$74,675	\$74,675	\$74,675	\$74,675	\$74,675	\$74,675	\$74,675	\$74,675	\$74,675
Other	\$218,772	\$218,772	\$218,772	\$218,772	\$218,772	\$218,772	\$218,772	\$218,772	\$218,772	\$218,772
Total (\$000)	\$7,022.2	\$9,835.8	\$9,840.4	\$11,079.8	\$11,079.8	\$14,641.4	\$14,641.4	\$14,641.4	\$14,641.4	\$14,641.4



TABLE B.4-1

CITY OF MARKHAM CALCULATION OF SERVICE LEVELS INDOOR RECREATION

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Historical Population	306,973	312,329	317,779	323,324	328,966	333,938	338,985	344,109	349,310	354,589

INVENTORY SUMMARY (\$000)

Halls And Meeting Rooms	\$88,942.8	\$101,776.6	\$104,869.4	\$107,343.5	\$107,343.5	\$118,743.1	\$118,743.1	\$118,743.1	\$118,743.1	\$118,743.1
Ice Pads	\$183,584.2	\$183,584.2	\$183,584.2	\$183,584.2	\$183,584.2	\$183,584.2	\$183,584.2	\$183,584.2	\$183,584.2	\$183,584.2
Indoor Soccer	\$11,995.3	\$16,423.3	\$16,423.3	\$16,423.3	\$16,423.3	\$16,423.3	\$16,423.3	\$16,423.3	\$16,423.3	\$16,423.3
Indoor Pool	\$60,116.7	\$79,002.3	\$79,002.3	\$126,231.9	\$126,231.9	\$143,889.7	\$143,889.7	\$143,889.7	\$143,889.7	\$143,889.7
Fitness Centres	\$17,829.5	\$23,128.3	\$23,128.3	\$25,578.6	\$25,578.6	\$29,561.4	\$29,561.4	\$29,561.4	\$29,561.4	\$29,561.4
Gymnasium	\$26,537.3	\$31,672.3	\$31,672.3	\$41,212.0	\$41,212.0	\$46,726.2	\$46,726.2	\$46,726.2	\$46,726.2	\$46,726.2
Senior Centres	\$7,384.8	\$8,033.6	\$8,033.6	\$8,033.6	\$8,033.6	\$9,093.2	\$9,093.2	\$9,093.2	\$9,093.2	\$9,093.2
Common Space - Major Community Centres	\$95,571.4	\$132,414.0	\$132,414.0	\$157,202.4	\$157,202.4	\$182,897.1	\$182,897.1	\$182,897.1	\$182,897.1	\$182,897.1
Parking Structures	\$0.0	\$11,925.5	\$11,925.5	\$11,925.5	\$11,925.5	\$11,925.5	\$11,925.5	\$11,925.5	\$11,925.5	\$11,925.5
Land	\$508,025.1	\$559,556.8	\$563,396.7	\$593,839.5	\$593,839.5	\$634,021.5	\$634,021.5	\$633,198.7	\$633,198.7	\$633,198.7
Furniture & Equipment	\$7,022.2	\$9,835.8	\$9,840.4	\$11,079.8	\$11,079.8	\$14,641.4	\$14,641.4	\$14,641.4	\$14,641.4	\$14,641.4
Total (\$000)	\$1,007,009.2	\$1,157,352.6	\$1,164,289.9	\$1,282,454.2	\$1,282,454.2	\$1,391,506.6	\$1,391,506.6	\$1,390,683.7	\$1,390,683.7	\$1,390,683.7

SERVICE LEVEL (\$/capita)

Average Service

Total (\$/capita)	\$3,280.45	\$3,705.56	\$3,663.84	\$3,966.47	\$3,898.44	\$4,166.96	\$4,104.92	\$4,041.40	\$3,981.23	\$3,921.96	\$3,873.12
Furniture & Equipment	\$22.88	\$31.49	\$30.97	\$34.27	\$33.68	\$43.84	\$43.19	\$42.55	\$41.92	\$41.29	\$36.61
Land	\$1,654.95	\$1,791.56	\$1,772.92	\$1,836.67	\$1,805.17	\$1,898.62	\$1,870.35	\$1,840.11	\$1,812.71	\$1,785.72	\$1,806.88
Parking Structures	\$0.00	\$38.18	\$37.53	\$36.88	\$36.25	\$35.71	\$35.18	\$34.66	\$34.14	\$33.63	\$32.22
Common Space - Major Community Centres	\$311.33	\$423.96	\$416.69	\$486.21	\$477.87	\$547.70	\$539.54	\$531.51	\$523.60	\$515.80	\$477.42
Senior Centres	\$24.06	\$25.72	\$25.28	\$24.85	\$24.42	\$27.23	\$26.82	\$26.43	\$26.03	\$25.64	\$25.65
Gymnasium	\$86.45	\$101.41	\$99.67	\$127.46	\$125.28	\$139.92	\$137.84	\$135.79	\$133.77	\$131.78	\$121.94
Fitness Centres	\$58.08	\$74.05	\$72.78	\$79.11	\$77.75	\$88.52	\$87.21	\$85.91	\$84.63	\$83.37	\$79.14
Indoor Pool	\$195.84	\$252.95	\$248.61	\$390.42	\$383.72	\$430.89	\$424.47	\$418.15	\$411.93	\$405.79	\$356.28
Indoor Soccer	\$39.08	\$52.58	\$51.68	\$50.80	\$49.92	\$49.18	\$48.45	\$47.73	\$47.02	\$46.32	\$48.27
Ice Pads	\$598.05	\$587.79	\$577.71	\$567.80	\$558.06	\$549.76	\$541.57	\$533.51	\$525.56	\$517.74	\$555.75
Halls And Meeting Rooms	\$289.74	\$325.86	\$330.01	\$332.00	\$326.31	\$355.58	\$350.29	\$345.07	\$339.94	\$334.88	\$332.97

CITY OF MARKHAM CALCULATION OF MAXIMUM ALLOWABLE INDOOR RECREATION

10-Year Funding Envelope Calculation	
10 Year Average Service Level 2012 - 2021	\$3,873.12
Net Population Growth 2022 - 2031	90,071
Maximum Allowable Funding Envelope	\$348,854,435



CITY OF MARKHAM DEVELOPMENT-RELATED CAPITAL PROGRAM INDOOR RECREATION

		1	Gross		Grants/	I	Net	Ine	ligible Co	osts	I	Total				DC	: Eligi	ble Costs		
Project Description	Timing		Project	Su	ubsidies/Other	r	Municipal		eplaceme			DC Eligible		Prior		Available		2022-		Other Dev.
			Cost		Recoveries		Cost	&	BTE Shar	res		Costs		Growth	DC	Reserves		2031		Related Costs
INDOOR RECREATION																				
4.1 Recovery of Past Commitments 4.1.1 Recovery of Negative Reserve Fund Balance	2022	e	46,852,432	s		\$	46,852,432	0%	\$		¢	46,852,432	e		\$		~	46.852.432	r	
	2022	\$		\$	-	ф Ф		0.70	\$	-	<u>Ф</u>		φ 	-	<u>ب</u>		\$		<u> </u>	-
Subtotal Recovery of Past Commitments		\$	46,852,432	\$	-	\$	46,852,432		\$	-	\$	46,852,432	\$	-	\$	-	\$	46,852,432	\$	-
4.2 Major Facilities																				
4.2.1 Leitchcroft (10.000 sf)	2024	\$	6.150.000	\$	-	\$	6,150,000	0%	\$	-	\$	6,150,000	\$	-	\$	-	\$	6,150,000	s	-
4.2.2 Markham Centre (10.000 sf)	2025	\$	6,150,000	\$	-	\$	6,150,000	0%	\$	-	\$	6,150,000	\$	-	\$	-	\$	6,150,000	ŝ	-
4.2.3 Future Facility - FUA Phase 1 (40.000 sf)	2026	\$	24,600,000	\$	-	\$	24,600,000	0%	\$	-	\$	24,600,000	\$	-	\$	-	\$	24,600,000	ŝ	-
4.2.4 Future Facility - Co-location in Robinson Glen (10,000 sf)	2027	\$	6,150,000	\$	-	\$	6.150.000	0%	\$	-	\$	6,150,000	\$	-	\$	-	\$	6,150,000	s	-
4.2.5 Milliken Mills Expansion (39.000 sf)	2029	\$	23,985,000	\$	-	\$	23,985,000	0%	\$	-	\$	23,985,000	\$	-	\$	-	\$	23,985,000	s	-
4.2.6 Indoor Turf Facility	2029	\$	3,741,000	\$	-	\$	3,741,000	0%	\$	-	\$	3,741,000	\$	-	\$	-	\$	3,741,000	s	-
4.2.7 Future Facility - FUA Phase 2 (50,000 sf)	2030	\$	30,750,000	\$	-	\$	30,750,000	0%	\$	-	\$	30,750,000	\$	-	\$	-	\$	30,750,000	s	-
4.2.8 East Markham Facility (120,000 stt)	2030	\$	73,800,000	\$	-	\$	73,800,000	0%	\$	-	\$	73,800,000	\$	-	\$	-	\$	55,350,000	\$	18,450,000
Subtotal Major Facilities		\$	175,326,000	\$	-	\$	175,326,000		\$	-	\$	175,326,000	\$	-	\$	-	\$	156,876,000	\$	18,450,000
4.3 Land for Major Facilities																				
4.3.1 Provision for Land for Indoor Rec Facility (2 ha)	2026	\$	27,400,000	\$	-	\$	27,400.000	0%	\$	-	\$	27,400,000	\$	-	\$	-	\$	27,400,000	s	-
4.3.2 Provision for Land for Indoor Rec Facility (2 ha)	2029	\$	27,400,000	\$	-	\$	27,400.000	0%	\$	-	\$	27,400,000	\$	-	\$	-	\$	27,400,000	ŝ	-
4.3.3 Provision for Land for Indoor Rec Facility (2 ha)	2030	\$	27,400,000	\$	-	\$	27,400.000	0%	\$	-	\$	27,400,000	\$	-	\$	-	\$	27,400,000	s	-
4.3.4 Provision for Land for Indoor Rec Facility (2 ha)	2030	\$	27,400,000	\$	-	\$	27,400,000	0%	\$	-	\$	27,400,000	\$	-	\$	-	\$	27,400,000	\$	-
Subtotal Land for Major Facilities		\$	109,600,000	\$	-	\$	109,600,000		\$	-	\$	109,600,000	\$	-	\$	-	\$	109,600,000	\$	-
4.4 Furniture & Equipment																				
4.4.1 Leitchcroft	2024	\$	615.000	\$	-	\$	615.000	0%	\$	-	\$	615,000	\$	-	\$	-	\$	615.000	s	-
4.4.2 Markham Centre	2025	\$	615.000	\$	-	\$	615.000	0%	\$	-	\$	615.000	\$	-	\$	-	\$	615.000	ŝ	-
4.4.3 Future Facility - FUA Phase 1	2026	\$	2,460,000	\$	-	\$	2,460,000	0%	\$	-	\$	2,460,000	\$	-	\$	-	\$	2,460,000	s	-
4.4.4 Future Facility - Co-location in Robinson Glen	2027	\$	615,000	\$	-	\$	615,000	0%	\$	-	\$	615,000	\$	-	\$	-	\$	615,000	\$	-
4.4.5 Milliken Mills Expansion	2029	\$	2,398,500	\$	-	\$	2,398,500	0%	\$	-	\$	2,398,500	\$	-	\$	-	\$	2,398,500	\$	-
4.4.6 Future Facility - FUA Phase 2	2030	\$	3,075,000	\$	-	\$	3,075,000	0%	\$	-	\$	3,075,000	\$	-	\$	-	\$	3,075,000	\$	-
4.4.7 East Markham Facility	2030	\$	7,380,000	\$	-	\$	7,380,000	0%	\$	-	\$	7,380,000	\$	-	\$	-	\$	7,380,000	\$	-
Subtotal Furniture & Equipment		\$	17,158,500	\$	-	\$	17,158,500		\$	-	\$	17,158,500	\$	-	\$	-	\$	17,158,500	\$	-
TOTAL INDOOR RECREATION		\$	348,936,932	\$	-	\$	348,936,932		\$	-	\$	348,936,932	\$	-	\$	-	\$	330,486,932	\$	18,450,000
	ure & Equipment	ure & Equipment	s Equipment																	

Residential Development Charge Calculation		
Residential Share of 2022 - 2031 DC Eligible Costs	100%	\$330,486,932
10-Year Growth in Population in New Units		90,381
Unadjusted Development Charge Per Capita		\$3,656.60
Non-Residential Development Charge Calculation		
Non-Residential Share of 2022 - 2031 DC Eligible Costs	0%	\$0
10-Year Growth in Square Metres		2,550,244
Unadjusted Development Charge Per Square Metre		\$0.00

2022 - 2031 Net Funding Envelope	\$348,854,435
Reserve Fund Balance	(\$46,852,432)



TABLE B.4-3

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE INDOOR RECREATION RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

INDOOR RECREATION	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
OPENING CASH BALANCE	(\$46,852.43)	(\$19,372.1)	\$11,004.9	\$37,122.8	\$65,532.6	\$43,605.4	\$74,780.5	\$116,353.4	\$93,664.3	(\$42,247.2)	
2022 - 2031 RESIDENTIAL FUNDING REQUIREMENTS											
- Prior Growth (Funding from DC Reserve Balance)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
- Indoor Recreation: Non Inflated	\$0.00	\$0.00	\$6,765.00	\$6,765.00	\$54,460.00	\$6,765.00	\$0.00	\$57,524.50	\$151,355.00	\$0.00	\$283,634.5
- Indoor Recreation: Inflated(1)	\$0.0	\$0.0	\$7,038.3	\$7,179.1	\$58,949.3	\$7,469.1	\$0.0	\$66,077.6	\$177,336.5	\$0.0	
NEW RESIDENTIAL DEVELOPMENT											
- Population Growth in New Units	8,094	8,301	8,514	8,733	8,955	9,085	9,315	9,549	9,792	10,043	90,381
REVENUE											
- DC Receipts: Inflated	\$29,540.3	\$30,901.7	\$32,328.5	\$33,823.2	\$35,376.7	\$36,608.1	\$38,285.6	\$40,032.3	\$41,872.0	\$43,804.3	\$362,572.6
INTEREST											
- Interest on Opening Balance	(\$2,576.9)	(\$1,065.5)	\$385.2	\$1,299.3	\$2,293.6	\$1,526.2	\$2.617.3	\$4.072.4	\$3.278.2	(\$2,323.6)	\$9,506.3
- Interest on In-year Transactions	\$517.0	\$540.8	\$442.6	\$466.3	(\$648.2)	\$509.9	\$670.0	(\$716.2)	(\$3,725.3)	\$766.6	(\$1,176.7)
TOTAL REVENUE	\$27,480.3	\$30,377.0	\$33,156.2	\$35,588.8	\$37,022.1	\$38,644.2	\$41,572.9	\$43,388.4	\$41,425.0	\$42,247.2	\$370,902.2
	φ27,400.5	φ30,377.0	φ33,130.2	φυυ,000.0	φ37,022.1	φ30,044.2	φ41,072.9	ψ40,000.4	φ41,425.U	φ 4 Ζ,Ζ41.Ζ	\$310,902.Z
CLOSING CASH BALANCE	(\$19,372.1)	\$11,004.9	\$37,122.8	\$65,532.6	\$43,605.4	\$74,780.5	\$116,353.4	\$93,664.3	(\$42,247.2)	\$0.0	

Note 1: Borrowed funds are not inflated.

201	22 Adjusted Charge Per Capita	\$3.649.65
202	22 Aujusted Charge i el Capita	\$5,045.05

Residential Sector	100.0%
Non-Residential Sector	0.0%
Rates for 2022	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



Appendix B.5 Park Development & Facilities



Appendix B.5: Park Development & Facilities

The City of Markham Parks Department is responsible for the recreation and leisure needs of the community, including the provision and maintenance of parks, to the residents of Markham. The City offers over 680 hectares of developed parkland and an array of parks facilities including playgrounds, soccer fields, and baseball diamonds.

Table B.5-12012 - 2021 Historical Service Levels

Table B.5-1 displays the Parks ten-year historical inventory for outdoor recreation facilities, sports fields, parks, and bridges. Outdoor recreation facilities, including maintenance and storage buildings, tennis clubhouses, washrooms, fountains, shelters, and other urban park features, amount to \$110.14 million.

Outdoor sports fields, which include a variety of junior and senior, as well as lit unlit facilities, amount to \$177.80 million. The City of Markham currently has 738 hectares of developed parkland which is valued at \$321.56 million. Finally, bridges, illumination, landscaping and parking lots add another \$73.57 million to the Park Development & Facilities inventory.

The 2021 full replacement value of the inventory of capital assets for the Park Development & Facilities amounts to \$682.88 million which yields a service level of \$1,882.77 per capita. When multiplied by the forecasted net population growth over the 2022 – 2031 planning period, a maximum funding envelope of \$169.58 million is the result.



Table B.5-22022 – 2031 Development-Related CapitalProgram & Calculation of the UnadjustedDevelopment Charge

The 2022 – 2031 gross development-related capital program for the Parks department amounts to \$325.99 million.

The Park Development and Facilities capital program is a very detailed list of development-related capital projects by type, and location. The type of facilities included in the capital program include: basketball courts, baseball diamonds, cricket pitches, exercise stations, gazebos & shelters, concrete plaza spaces, parking lots, lighting, playgrounds, skate parks, soccer fields, splash pads, tennis courts, walkways & paths, washrooms, and park development.

No grants or replacement shares have been identified for this service as the capital program only includes net new facilities. There is \$28.53 million currently in the Parks DC reserve fund balance which has been applied to the capital projects occurring in the initial years of the program. A significant share of the development-related capital program, \$127.87 million, is above the 10-year historical service level net funding envelope this amount and as such, has been removed from the 2022 – 2031 development charges calculation and will be examined for recovery under subsequent DC by-law updates(subject to service level restrictions), other growth-funding tools or other funding sources.

The DC costs eligible for recovery within the 2022 – 2031 period amount to \$169.58 million which is allocated entirely against future residential development in the City of Markham. This results in an unadjusted development charge of \$1,876.30 per capita.



Table B.5-3Cash Flow Analysis

After cash flow and reserve fund consideration, the residential calculated charge increases to \$2,008.68 per capita. This is a reflection of the timing of the capital program and development charges revenues.

The following table summarizes the calculation of the indoor recreation development charge:

Unadiusted Adjusted Adjusted												
10-year Hist.	20	22 - 2031		Developm	ent Charge			Development Charge				
Service Level	Development-R	elated Capital Program	Residential	Retail	1.0.1.	Mixed-Use	Residential	Retail	I.O.I.	Mixed-U		
per capita	Total	Net DC Recoverable	\$/capita	\$/sq.m	\$/sq.m	\$/sq.m	\$/capita	\$/sq.m	\$/sq.m	\$/sq.m		
\$1.882.77	\$325,989,933	\$169.582.317	\$1.876.30	\$0.00	\$0.00	\$0.00	\$2.008.68	\$0.00	\$0.00	\$0.00		



CITY OF MARKHAM

INVENTORY OF CAPITAL ASSETS

PARK DEVELOPMENT & FACILITIES

Maintenance and Storage Buildings					# of Squ	are Feet					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/sq. ft.)
14th Avenue Central Parks Workshop	7,259	7,259	7,259	7,259	7,259	7,259	7,259	7,259	7,259	7,259	\$379
428 John Street - West Parks Workshop	2,719	2,719	2,719	2,719	2,719	2,719	2,719	2,719	2,719	2,719	\$379
Answell Park Well Shed	80	80	80	80	80	80	80	80	80	80	\$123
Bishop Cross	600	600	600	600	600	600	600	600	600	600	\$379
Centennial Park Storage Bldg	830	830	830	830	830	830	830	830	830	830	\$379
Civic Center Skating Rink Bldg	1,820	1,820	1,820	1,820	1,820	1,820	1,820	1,820	1,820	1,820	\$379
Crosby Park Food Booth	1,345	1,345	1,345	1,345	1,345	1,345	1,345	1,345	1,345	1,345	\$379
Crosby Park Storage Shed	100	100	100	100	100	100	100	100	100	100	\$123
Greenhouses 4415 14th Avenue	12,600	12,600	12,600	12,600	12,600	12,600	12,600	12,600	12,600	12,600	\$379
Main St Markham Storage Building	300	300	300	300	300	300	300	300	300	300	\$379
Miller Works Yard -Urban Forest	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	\$379
Milliken Mills Park Concession	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	\$379
Milne Park Concession	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	\$379
Milne Park Lean Tos	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	\$123
Milne Park Storage Building	100	100	100	100	100	100	100	100	100	100	\$379
Milne Park Ticket Booth	25	25	25	25	25	25	25	25	25	25	\$379
Morgan Pool Changerooms	856	856	856	856	856	856	856	856	856	856	\$379
Morgan Pool Filter Room	315	315	315	315	315	315	315	315	315	315	\$379
Morgan Pool Lifeguard Room	209	209	209	209	209	209	209	209	209	209	\$379
Paint Shop, 440 John Street	580	580	-	-	-	-	-	-	-	-	\$379
Princess Street	960	960	960	960	960	960	960	960	960	960	\$379
Rouge River Brown Building	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,750	\$379
Rouge River Green Building	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	\$379
Rouge River Pesticide Storage	80	80	80	80	80	80	80	80	80	80	\$379
Rouge River Pump House	300	300	300	300	300	300	300	300	300	300	\$379
Springdale Park Storage Shed	200	200	200	200	-	-	-	-	-	-	\$123
Storage Building 14th Avenue	1,440	1,440	1,440	1,440	1,440	1,440	1,440	1,440	1,440	1,440	\$379
Storage Shed, 440 John Street	1,440	1,440	-	-	-	-	-	-	-	-	\$379
The Arboretum and Heritage Orchard Maintenance building	128	128	128	128	128	128	128	128	128	128	\$379
Tower Storage, 440 John Street	13,270	13,270	-	-	-	-	-	-	-	-	\$379
Unionville Bandstand	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	\$379
West Parks Quonset Hut	2,002	2,002	2,002	2,002	2,002	2,002	2,002	2,002	2,002	2,002	\$123
Total (sq.ft.)	62,144	62,144	46,854	46,854	46,654	46,654	46,654	46,654	46,654	46,654	
Total (\$000)	\$22,456.4	\$22,456.4	\$16,661.5	\$16,661.5	\$16,636.9	\$16,636.9	\$16,636.9	\$16,636.9	\$16,636.9	\$16,636.9	



CITY OF MARKHAM

INVENTORY OF CAPITAL ASSETS

PARK DEVELOPMENT & FACILITIES

Tennis Clubhouses					# of Squ	are Feet					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/sq. ft.)
Armadale Park Tennis Clubhouse	1,150	1,150	1,150	1,150	1,150	1,150	1,150	1,150	1,150	1,150	\$475
Box Grove Park Tennis Clubhouse	60	60	60	60	60	60	60	60	60	60	\$475
German Mills Tennis Clubhouse	700	700	700	700	700	700	700	700	700	700	\$475
Markham Tennis Clubhouse	624	624	624	624	624	624	624	624	624	624	\$475
Pomona Mills Park Tennis Club	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	\$475
Unionville Tennis Clubhouse	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	\$475
Total (sq.ft.)	5,534	5,534	5,534	5,534	5,534	5,534	5,534	5,534	5,534	5,534	
Total (\$000)	\$2,628.7	\$2,628.7	\$2,628.7	\$2,628.7	\$2,628.7	\$2,628.7	\$2,628.7	\$2,628.7	\$2,628.7	\$2,628.7	

Buildings with Washrooms					# of Squ	are Feet					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/sq. ft.)
Berczy Park North	-	1,246	1,246	1,246	1,246	1,246	1,246	1,246	1,246	1,246	\$379
Berczy Park South	-	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	\$379
Box Grove Park	-	-	-	-	-	-	-	-	-	2,067	\$379
Calvert Park	1,299	1,299	1,299	1,299	1,299	1,299	1,299	1,299	1,299	1,299	\$379
Gordon Stollery Park	-	-	-	-	28	28	28	28	28	28	\$379
Grandview Park	-	-	-	-	-	-	-	-	420	420	\$379
Main St Markham	450	450	450	450	450	450	450	450	450	450	\$379
Millennium Park	340	340	340	340	340	340	340	340	340	340	\$379
Milliken Mills Community Park	1,827	1,827	1,827	1,827	1,827	1,827	1,827	1,827	1,827	1,827	\$379
Milne Dam Conservation Park	1,048	1,048	1,048	1,048	1,048	1,048	1,048	1,048	1,048	1,048	\$379
Mintleaf Park	93	93	93	93	93	93	93	93	93	93	\$379
Risebrough Park	75	75	75	75	75	75	75	75	75	75	\$379
St Robert Chs	2,848	2,848	2,848	2,848	2,848	2,848	2,848	2,848	2,848	2,848	\$379
Toogood Pond	881	881	881	881	881	881	881	881	881	881	\$379
Victoria Square Park	607	607	607	607	607	607	607	607	607	607	\$379
Yarl Cedarwood Park	-	-	-	693	693	693	693	693	693	693	\$379
Total (sq.ft.)	9,468	12,812	12,812	13,505	13,533	13,533	13,533	13,533	13,953	16,020	
Total (\$000)	\$3,588.36	\$4,855.76	\$4,855.76	\$5,118.35	\$5,129.00	\$5,129.02	\$5,129.02	\$5,128.96	\$5,288.18	\$6,071.58	



CITY OF MARKHAM

INVENTORY OF CAPITAL ASSETS

PARK DEVELOPMENT & FACILITIES

Land for Outdoor Recreation Buildings					# of Heo	tares					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
14th Avenue Central Parks Workshop	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	\$13,714,000
428 John Street - West Parks Workshop	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	\$13,714,000
440 John Street	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	\$13,714,000
Bishops Cross	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	\$13,714,000
Centennial	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	\$13,714,000
Civic Center Park	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	\$13,714,000
Milliken Mills Park	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	\$13,714,000
Milne Dam	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	\$13,714,000
Princess Street	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	\$13,714,000
Toogood Pavilion	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	\$13,714,000
Total (ha)	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	
Total (\$000)	\$50,344.1	\$50,344.1	\$50,344.1	\$50,344.1	\$50,344.1	\$50,344.1	\$50,344.1	\$50,344.1	\$50,344.1	\$50,344.1	

Clock Towers		# of Clock Towers											
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)		
BERCZY SQUARE	-	-	-	-	1	1	1	1	1	1	\$449,182		
GRAND CORNELL PARK	1	1	1	1	1	1	1	1	1	1	\$449,182		
MARKHAM MAIN ST. (SOUTH OF HWY7)	-	-	-	-	-	-	-	1	1	1	\$46,350		
Total (#)	1	1	1	1	2	2	2	3	3	3			
Total (\$000)	\$449.18	\$449.18	\$449.18	\$449.18	\$898.36	\$898.36	\$898.36	\$944.71	\$944.71	\$944.71			

Fountains	# of Fountains											
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)	
BENJAMIN THORNE PARK	-	-	1	1	1	1	1	1	1	1	\$536,523	
JOHN DANIELS PARK	1	1	1	1	1	1	1	1	1	1	\$536,523	
PARK SQUARE	-	-	-	-	-	-	-	1	1	1	\$536,523	
Total (#)	1	1	2	2	2	2	2	3	3	3		
Total (\$000)	\$536.52	\$536.52	\$1,073.05	\$1,073.05	\$1,073.05	\$1,073.05	\$1,073.05	\$1,609.57	\$1,609.57	\$1,609.57		



TABLE B.5-1

CITY OF MARKHAM INVENTORY OF CAPITAL ASSETS PARK DEVELOPMENT & FACILITIES PARKS BUILDINGS

Shelters					# of S	helters					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
Minor Trellis											
BENJAMIN MARR PARK SOUTH	1	1	1	1	1	1	1	1	1	1	\$108,221
BERCZY PARK NORTH	-	-	1	1	1	1	1	1	1	1	\$108,221
JOHN FERRERA PARK	-	-	-	-	-	1	1	1	1	1	\$108,221
JOHN STEGMAN WOODS	1	1	1	1	1	1	1	1	1	1	\$108,221
JOHN STREET PARKETTE		1	1	1	1	1	1	1	1	1	\$108,221
LEIGHLAND PARK	1	1	1	1	1	1	1	1	1	1	\$108,221
MILLENNIUM PARK	1	1	1	1	1	1	1	1	1	1	\$108,221
NORDINGLEN PARK		2	2	2	2	2	2	2	2	2	\$108,221
PEACE PARK	1	1	1	1	1	1	1	1	1	1	\$108,221
SINCLAIR HOLDEN PARK	1	1	1	1	1	1	1	1	1	1	\$108,221
SIR ROBERT WATSON			1	1	1	1	1	1	1	1	\$108,221
WISMER PARK	9	9	9	9	9	9	9	9	9	9	\$108,221



TABLE B.5-1

CITY OF MARKHAM INVENTORY OF CAPITAL ASSETS PARK DEVELOPMENT & FACILITIES PARKS BUILDINGS

of Shelters Shelters UNIT COST (\$/unit) Park Name Major Trellis BEAUPRE PARK \$249,545 BERCZY PARK NORTH -\$249,545 -BERCZY PARK SOUTH \$249,545 \$249,545 BERCZY SQUARE PARK BRIAN CHATLAND PARK \$249,545 CABOTO TRAIL PARKETTE \$249,545 CHELSEA PARK \$249,545 CLARENCE CHANT PARK \$249,545 COLEDALE PARK \$249,545 CORNELL COMMUNITY CENTRE \$249,545 CORNELL ROUGE WOODS \$249,545 CORNELL WOODLOT PARK \$249,545 -GRAND CORNELL PARK \$249,545 GREENSBOROUGH TOWN CENTRE \$249,545 JOHN DANIELS PARK \$249,545 KAMIL SADIQ PARK --\$249,545 MCCOWAN FREEMAN PARKETTE \$249,545 \$249,545 MILLENNIUM PARK NICHOLAS MILLER PARK \$249,545 NORDINGLEN PARK _ \$249,545 \$249,545 PETER BAWDEN PARK RAY STREET PARK _ -\$249,545 \$249,545 ROSEBERRY PARK --ROUGEHAVEN PARK \$249,545 ROXBURY PARK \$249,545 SIMONSTON PARK \$249,545 SOUTH UNIONVILLE PARK WEST \$249,545 SPEIGHT PARK \$249,545 \$249,545 THE VILLAGE GREEN THOMAS MCQUAY PARK \$249,545 UNITY PARK \$249,545 WILLIAMSTOWN PARK \$249,545 WILMOT PARKETTE \$249,545 \$249,545 WISMER PARK YARL CEDARWOOD PARK \$249,545



TABLE B.5-1

CITY OF MARKHAM INVENTORY OF CAPITAL ASSETS PARK DEVELOPMENT & FACILITIES

Shelters					# of SI	helters					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
Minor Gazebo											
ANGUS GLEN VILLAGE GREEN PARK	-	-	-	-	-	-	-	1	1	1	\$81,484
ASHTON MEADOWS	-	-	-	-	-	-	1	1	1	1	\$81,484
AVIDA POND	-	-	-	-	-	1	1	1	1	1	\$81,484
ALFRED PATTERSON POND	1	1	1	1	1	1	1	1	1	1	\$81,484
BEAUPRE PARK	1	1	1	1	1	1	1	1	1	1	\$81,484
BENJAMIN MARR PARK NORTH	1	1	1	1	1	1	1	1	1	1	\$81,484
IVAN REESOR PARKETTE	-	-	-	-	1	1	1	1	1	1	\$81,484
BLAKE LAZENBY PARK	1	1	1	1	1	1	1	1	1	1	\$81,484
CHURCH STREET PARKETTE	1	1	1	1	1	1	1	1	1	1	\$81,484
COLTYS CORNER	-	-	-	-	-	-	-	1	1	1	\$81,484
DENISON PARK	1	1	1	1	1	1	1	1	1	1	\$81,484
GEORGE COUPERWAITE PARK - EAST	-	1	1	1	1	1	1	1	1	1	\$81,484
GEORGE COUPERWAITE PARK - WEST	-	1	1	1	1	1	1	1	1	1	\$81,484
GEORGE COATHUP PARK	-	3	3	3	3	3	3	3	3	3	\$81,484
GORDON STOLLERY PARK	-	-	-	-	2	2	2	2	2	2	\$81,484
HAROLD HUMPHREYS PARK	1	1	1	1	1	1	1	1	1	1	\$81,484
HENRY WHITE PARK	1	1	1	1	1	1	1	1	1	1	\$81,484
INNIS MACDONALD PARK	1	1	1	1	1	1	1	1	1	1	\$81,484
JAMES EDWARD PARK	1	1	1	1	1	1	1	1	1	1	\$81,484
JEANNE-CHARLOTTE ALLAMAND PARK	-	-	-	-	-	1	1	1	1	1	\$81,484
JOHN BAIRD WOODS	-	-	-	-	1	1	1	1	1	1	\$81,484
JOHN MAPES PARKETTE	1	1	1	1	1	1	1	1	1	1	\$81,484
JOSEPH ELLERBY PARK	1	1	1	1	1	1	1	1	1	1	\$81,484
LEITCHCROFT PARK	1	1	1	1	1	1	1	1	1	1	\$81,484
MONARCH PARK	1	1	1	1	1		1	1	1	1	\$81,484
PAT WHEELER PARK	-	-	-	-	-	-	1	1	1	1	\$81,484
PEACE PARK	1	1	1	1	1	1	1	1	1	1	\$81,484
POTTERY PARK	-	-	-	-	-	-	-	-	1	1	\$81,484
RANDALL PARK	-	-	-	-	-	1	1	1	1	1	\$81,484
READ'S CORNER PARK	-	-	-	-	1	1	1	1	1	1	\$81,484
ROUGEHAVEN PARK	1	1	1	1	1	1	1	1	1	1	\$81,484
ROXBURY PARK	1	1	1	1	1	1	1	1	1	1	\$81,484
SCHOOL HOUSE PARK	-	-	-	-	-	-	1	1	1	1	\$81,484
SOUTH UNIONVILLE PARK	1	1	1	1	1	1	1	1	1	1	\$81,484
TOOGOOD POND PARK	-	-	-	-	-	1	1	1	1	1	\$81,484
UPPER CORNELL PARK	1	1	1	1	1	1	1	1	1	1	\$81,484
VICTORIA SQUARE PARK	-	3	3	3	3	3	3	3	3	3	\$81,484



APPENDIX B.5

TABLE B.5-1

CITY OF MARKHAM INVENTORY OF CAPITAL ASSETS PARK DEVELOPMENT & FACILITIES PARKS BUILDINGS

of Shelters Shelters UNIT COST (\$/unit) Park Name Major Gazebo AANIIN PARK \$311,932 ABRAHAM STRICKLER PARK -\$311,932 --ADA MACKENZIE PARK \$311,932 --ART LATCHAM PARK \$311,932 _ _ -BECKETT FARM \$311,932 BERCZY PARK SOUTH \$311,932 BOX GROVE PARK \$311,932 -ERNEST WIDEMAN \$311,932 FLORENCE & DONALD DEACON PARK \$311,932 FREDERICK BAGG PARK \$311,932 FRISBY PARK ----\$311,932 GORDON LEITCH PARK \$311,932 GORDON STOLLERY PARK ---\$311,932 -\$311,932 GRANDVIEW PARK ------GREENSBOROUGH TOWN CENTRE \$311,932 HARMONY PARK ------\$311,932 HUNTINGTON PARK \$311,932 JOHN DANIELS PARK \$311,932 JOHN PAYNE PARK \$311,932 LAURA & ALF WEAVER PARK _ --\$311,932 \$311,932 LEGACY PARK MILLENNIUM SQUARE _ \$311,932 MILLIKEN MILLS PARK \$311,932 \$311,932 MOUNT JOY PARK RAY STREET PARK \$311,932 RAY STREET PARK \$311,932 RISEBROUGH PARK \$311,932 RIVERWALK PARK \$311,932 \$311,932 ROBERT SPINDLOE -------ROY RAMER PARK ----\$311,932 -----RUSSELL CART TEFFT PARK -------\$311,932 SOUTH UNIONVILLE PARK WEST \$311,932 -SWAN LAKE PARK \$311,932 THE ARBORETUM AND HERITAGE ORCHARD \$311,932 WESTPHALEN PARK \$311,932 -WILLIAM CANTLEY \$311,932 ---



APPENDIX B.5

TABLE B.5-1

Shelters					# of S	helters					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
Park Pavillion											
BERCZY PARK NORTH	-	-	1	1	1	1	1	1	1	1	\$311,932
HIGHGATE PARK	-	1	1	1	1	1	1	1	1	1	\$311,932
MILNE DAM CONSERVATION PARK	1	1	1	1	1	1	1	1	1	1	\$311,932
SADDLECREEK PARK(ADA MACKENZIE PARK)	-	-	1	1	1	1	1	1	1	1	\$311,932
SIMONSTON PARK	1	1	1	1	1	1	1	1	1	1	\$311,932
Total (#)	80	94	109	110	121	131	138	141	145	150	
Total (\$000)	\$15,586.4	\$17,373.9	\$21,271.2	\$21,520.7	\$23,737.3	\$25,836.8	\$27,098.6	\$27,573.5	\$28,528.4	\$30,088.0	





TABLE B.5-1

Urban Park Features					Square or Li	near Meters					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2019	2021	(\$/unit)
HARD SURFACES - PLAZA (SQ.M.)											
Concrete											
ARTHUR LISMER PARK	-	-	172	172	172	172	172	172	172	172	\$149
BENJAMIN THRONE PARK	-	-	365	365	365	365	365	365	365	365	\$149
GEORGE COUTHUP PARK	-	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	\$149
MONARCH CATHEDRALTOWN NORTH PARK	-	-	-	-	103	103	103	103	103	103	\$149
SIR ROBERT WATSON PARK	-	-	150	150	150	150	150	150	150	150	\$149
THOMAS MCQUAY PARK	-	-	1,209	1,209	1,209	1,209	1,209	1,209	1,209	1,209	\$149
WISMER PARK	887	887	887	887	887	887	887	887	887	887	\$149
Unit Paving											
ARTHUR LISMER PARK	-	-	205	205	205	205	205	205	205	205	\$340
BENJAMIN THRONE PARK	-	-	432	432	432	432	432	432	432	432	\$340
GORDON STOLLERY PARK	-	-	-	-	20	20	20	20	20	20	\$340
SIR ROBERT WATSON PARK	-	-	188	188	188	188	188	188	188	188	\$340
WISMER PARK	357	357	357	357	357	357	357	357	357	357	\$340
Brick											
ARTHUR LISMER PARK	-	-	212	212	212	212	212	212	212	212	\$444
Seat Walls and Feature Walls (I.m)											
GEORGE COUTHUP PARK	-	46	46	46	46	46	46	46	46	46	\$1,220
WISMER PARK	-	-	5	5	5	5	5	5	5	5	\$1,220
RETAINING WALLS											
Concrete (sq.m.)											
ARTHUR LISMER PARK	-	-	28	28	28	28	28	28	28	28	\$1,628
GORDON STOLLERY PARK	-	-	-	-	91	91	91	91	91	91	\$1,628
THOMAS MCQUAY PARK	-	-	88	88	88	88	88	88	88	88	\$1,628
VINEGAR HILL PARKETTE	-	-	-	-	58	58	58	58	58	58	\$1,628
Armourstone (I.m.)											
GORDON STOLLERY PARK	-	-	-	-	35	35	35	35	35	35	\$667
SADDLECREEK PARK	-	-	12	12	12	12	12	12	12	12	\$667
VICTORIA SQUARE PARK	-	7	7	7	7	7	7	7	7	7	\$667
Limestone (I.m.)											
GEORGE COUTHUP PARK	-	9	9	9	9	9	9	9	9	9	\$517
Concrete Stairs and Ramps (I.m.)											
ARTHUR LISMER PARK	-	-	32	32	32	32	32	32	32	32	\$1,252
BENJAMIN THRONE PARK	-	-	-	73	73	73	73	73	73	73	\$1,252
BERCZY SQUARE	-	-	-	-	5	5	5	5	5	5	\$1,252
GORDON STOLLERY PARK	-	-	-	-	25	25	25	25	25	25	\$1,252
THOMAS MCQUAY PARK	-	-	27	27	27	27	27	27	27	27	\$1,252
Total (#)	1,244	2,313	5,438	5,512	5,849	5,849	5,849	5,849	5,849	5,849	
Total (\$000)	\$253.5	\$468.9	\$1,403.0	\$1,494.6	\$1,820.4	\$1,820.4	\$1,820.4	\$1,820.4	\$1,820.4	\$1,820.4	



Major Soccer - Artificial Turf		# of Lighted Major Soccer Fields										
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)	
BILL CROTHERS S.S. (SHARED AGREEMENT W SCHOOL BOARD)	2	2	2	2	2	2	2	2	2	2	\$1,122,954	
MOUNT JOY C.C. AND PARK	1	1	1	1	1	1	1	1	1	1	\$1,122,954	
ST ROBERT CHS (SHARED AGREEMENT W SCHOOL BOARD)	1	1	1	1	1	1	1	1	1	1	\$1,122,954	
Total (#)	4	4	4	4	4	4	4	4	4	4		
Total (\$000)	\$4,491.8	\$4,491.8	\$4,491.8	\$4,491.8	\$4,491.8	\$4,491.8	\$4,491.8	\$4,491.8	\$4,491.8	\$4,491.8		

Major Soccer - Lighted				#	of Lighted Ma	jor Soccer Fiel	ds				UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
BERCZY PARK NORTH	1	1	1	1	1	1	1	1	1	1	\$748,636
BILL CROTHERS S.S.(SHARED AGREEMENT W SCHOOL BOARD)	1	1	1	1	1	1	1	1	1	1	\$748,636
BISHOP'S CROSS PARK	1	1	1	1	1	1	1	1	1	1	\$748,636
BROTHER ANDRE CHS (SHARED AGREEMENT W SCHOOL BOARD)	1	1	1	1	1	1	1	1	1	1	\$748,636
CENTENNIAL PARK	1	1	1	1	1	1	1	1	1	1	\$748,636
GORDON STOLLERY PARK	1	1	1	1	1	1	1	1	1	1	\$748,636
HUNTINGTON PARK	1	1	1	1	1	1	1	1	1	1	\$748,636
MILLIKEN MILLS COMMUNITY PARK	1	1	1	1	1	1	1	1	1	1	\$748,636
MILLIKEN MILLS HIGH SCHOOL (SHARED MAINTENANCE AGREEMENT)	1	1	1	1	1	1	1	1	1	1	\$748,636
Total (#)	9	9	9	9	9	9	9	9	9	9	
Total (\$000)	\$6,737.7	\$6,737.7	\$6,737.7	\$6,737.7	\$6,737.7	\$6,737.7	\$6,737.7	\$6,737.7	\$6,737.7	\$6,737.7	



Major Soccer - Unlighted				# 0	of Unlighted M	ajor Soccer Fie	lds				UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/ha)
ADA MACKENZIE PARK	-	-	1	1	1	1	1	1	1	1	\$394,689
ALDERGROVE PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
ARMSTRONG PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
ASHTON MEADOWS PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
BAYVIEW RESERVOIR	2	2	2	2	2	2	2	2	2	2	\$394,689
BENJAMIN MARR PARK - NORTH	1	1	1	1	1	1	1	1	1	1	\$394,689
BENJAMIN MARR PARK - SOUTH	1	1	1	1	1	1	1	1	1	1	\$394,689
BERCZY PARK NORTH	2	2	2	2	2	2	2	2	2	2	\$394,689
BERCZY PARK SOUTH	1	1	1	1	1	1	1	1	1	1	\$394,689
BROTHER ANDRE CHS	1	1	1	1	1	1	1	1	1	1	\$394,689
BUR OAK SS (SHARED MAINTENANCE AGREEMENT)	1	1	1	1	1	1	1	1	1	1	\$394,689
CALVERT PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
CARLTON PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
CENTRAL PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
COLTY CORNERS	1	1	1	1	1	1	1	1	1	1	\$394,689
COPPARD PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
CROSBY PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
ELSON PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
FRANKLIN CARMICHAEL PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
GREEN LANE PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
HENRY WHITE PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
HIGHGATE PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
INNIS MACDONALD PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
JAMES EDWARD PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
JOHN BUTTON PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
MARKHAM DISTRICT HS (SHARED MAINTENANCE AGREEMENT)	2	2	2	2	2	2	2	2	2	2	\$394,689



Major Soccer - Unlighted				# 0	of Unlighted Ma	ajor Soccer Fiel	ds				UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/ha)
MARKVILLE SS (SHARED MAINTENANCE AGREEMENT)	1	1	1	1	1	1	1	1	1	1	\$394,689
MIDDLEFIELD CI (SHARED MAINTENANCE AGREEMENT)	1	1	1	1	1	1	1	1	1	1	\$394,689
MINTLEAF PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
PADDOCK PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
PIERRE ELLIOT TRUDEAU HS (SHARED MAINTENANCE AGREEMENT)	1	1	1	1	1	1	1	1	1	1	\$394,689
RANDALL PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
RAYBECK PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
RIVERWALK PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
SENECA COLLEGE	1	1	1	1	1	-	-	-	-	-	\$394,689
SIMONSTON PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
SOUTH UNIONVILLE PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
SPEIGHT PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
SPRINGDALE PARK	1	1	1	1	1	1	1	1	1	1	\$394,689
ST AUGUSTINE CHS (SHARED MAINTENANCE AGREEMENT)	1	1	1	1	1	1	1	1	1	1	\$394,689
ST ROBERT CHS (NATURAL FIELD - SHARED MAINTENANCE AGREEMENT)	1	1	1	1	1	1	1	1	1	1	\$394,689
THORNHILL PSS (SHARED MAINTENANCE AGREEMENT)	2	2	2	2	2	2	2	2	2	2	\$394,689
THORNLEA PSS (SHARED MAINTENANCE AGREEMENT)	1	1	1	1	1	1	1	1	1	1	\$394,689
UNIONVILLE HS (SHARED MAINTENANCE AGREEMENT)	2	2	2	2	2	2	2	2	2	2	\$394,689
Total (#)	2,060	2,061	2,063	2,064	2,065	2,065	2,066	2,067	2,068	2,069	
Total (\$000)	\$18,945.1	\$18,945.1	\$19,339.8	\$19,339.8	\$19,339.8	\$18,945.1	\$18,945.1	\$18,945.1	\$18,945.1	\$18,945.1	



Minor Soccer - Unlighted				# of	Unlighted Mir	nor Soccer Fie	lds				UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/ha)
ALDERGROVE PARK	2	2	2	2	2	2	2	2	2	2	\$203,710
ALMA WALKER PARK	2	2	2	2	2	2	2	2	2	2	\$203,710
ARMADALE PARK	2	2	2	2	2	2	2	2	2	2	\$203,710
LEITCHCROFT PARK	1	1	1	1	1	1	1	1	1	1	\$203,710
MILLIKEN MILLS COMMUNITY PARK	3	4	4	4	4	4	4	4	4	4	\$203,710
MONARCH PARK	1	1	1	1	1	1	1	1	1	1	\$203,710
MOUNT JOY PARK	3	3	3	3	3	3	3	3	3	3	\$203,710
QUANTZTOWN PARK	1	1	1	1	1	1	1	1	1	1	\$203,710
REESOR PARK	2	2	2	2	2	2	2	2	2	2	\$203,710
SIMONSTON PARK	1	1	1	1	1	1	1	1	1	1	\$203,710
SIR RICAHRD SCOTT	1	1	1	-	-	-	-	-	-	-	\$203,710
THORNLEA PSS (SHARED MAINTENANCE AGREEMENT)	1	1	1	1	1	1	1	1	1	1	\$203,710
TOMLINSON PARK	1	1	1	1	1	1	1	1	1	1	\$203,710
WISMER PARK	4	4	4	4	4	4	4	4	4	4	\$203,710
Total (#)	25	26	26	25	25	25	25	25	25	25	
Total (\$000)	\$5,092.8	\$5,296.5	\$5,296.5	\$5,092.8	\$5,092.8	\$5,092.8	\$5,092.8	\$5,092.8	\$5,092.8	\$5,092.8	

Mini Soccer - Unlighted				#	of Unlighted N	lini Soccer Fie	lds				UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
ARMSTRONG PARK	1	1	1	1	1	1	1	1	1	1	\$124,773
ASHTON MEADOWS PARK	2	2	2	2	2	2	2	2	2	2	\$124,773
BAYVIEW RESERVOIR	3	3	3	3	2	2	2	2	2	2	\$124,773
BOX GROVE PARK	-	-	-	-	-	-	-	-	-	1	\$124,773
DENISON PARK	1	1	1	1	1	1	1	1	1	1	\$124,773
FINCHAM PARK	8	8	8	8	8	8	8	1	1	1	\$124,773
HAROLD HUMPHREYS PARK	2	2	2	2	2	2	2	2	2	2	\$124,773
HUNTINGTON PARK	2	2	2	2	2	2	2	2	2	2	\$124,773
JOHN CANNING PARK	1	1	1	1	1	1	1	1	1	1	\$124,773
MIDDLEFIELD CI (SHARED MAINTENANCE AGREEMENT)	1	1	1	1	1	1	1	1	1	1	\$124,773
MINTLEAF PARK	13	13	13	13	13	13	13	13	13	13	\$124,773
POMONA MILLS PARK	2	2	2	2	2	2	2	2	2	2	\$124,773
ROXBURY PARK	1	1	1	1	1	1	1	1	1	1	\$124,773
THORNHILL PSS (SHARED MAINTENANCE AGREEMENT)	1	1	1	1	1	1	1	1	1	1	\$124,773
UPPER CORNELL PARK	1	1	1	1	1	1	1	1	1	1	\$124,773
VILLAGE PARK	2	2	2	2	2	2	2	2	2	2	\$124,773
Total (#)	41	41	41	41	40	40	40	33	33	34	
Total (\$000)	\$5,115.7	\$5,115.7	\$5,115.7	\$5,115.7	\$4,990.9	\$4,990.9	\$4,990.9	\$4,117.5	\$4,117.5	\$4,242.3	l



Major Diamond - Lighted					# of Lighted N	lajor Diamond	3				UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
ASHTON MEADOWS PARK	1	1	1	1	1	1	1	1	1	1	\$623,863
BAYVIEW RESERVOIR	1	1	1	1	1	1	1	1	1	1	\$623,863
BERCZY PARK SOUTH	1	1	1	1	1	1	1	1	1	1	\$623,863
BISHOP'S CROSS PARK	2	2	2	2	2	2	2	2	2	2	\$623,863
CARLTON PARK	1	1	1	1	1	1	1	1	1	1	\$623,863
CEDAR GROVE PARK	1	1	1	1	1	1	1	1	1	1	\$623,863
CENTENNIAL PARK	2	2	2	2	2	2	2	2	2	2	\$623,863
CROSBY PARK	1	1	1	1	1	1	1	1	1	1	\$623,863
GRANDVIEW PARK	1	1	1	1	1	1	1	1	1	1	\$623,863
HIGHGATE PARK	1	1	1	1	1	1	1	1	1	1	\$623,863
HUNTINGTON PARK	1	1	1	1	1	1	1	1	1	1	\$623,863
MILLIKEN MILLS COMMUNITY PARK	5	5	5	5	5	5	5	5	5	5	\$623,863
MINTLEAF PARK	1	1	1	1	1	1	1	1	1	1	\$623,863
MONARCH PARK	1	1	1	1	1	1	1	1	1	1	\$623,863
MORGAN PARK	1	1	1	1	1	1	1	1	1	1	\$623,863
VICTORIA SQUARE PARK	1	1	1	1	1	1	1	1	1	1	\$623,863
Total (#)	22	22	22	22	22	22	22	22	22	22	
Total (\$000)	\$13,725.0	\$13,725.0	\$13,725.0	\$13,725.0	\$13,725.0	\$13,725.0	\$13,725.0	\$13,725.0	\$13,725.0	\$13,725.0	



Major Diamond - Unlighted	# of Unlighted Major Diamonds 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 1									UNIT COST	
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
ALDERGROVE PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
ARMADALE PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
BAYVIEW GLEN PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
BAYVIEW LANE PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
CALVERT PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
COLEDALE PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
COLTY CORNERS	1	1	1	1	1	1	1	1	1	1	\$374,318
DENISON PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
DUNCAN PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
ELSON PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
FEATHERSTONE PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
JAMES EDWARD PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
JOHN BUTTON PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
LEGACY PARK	2	2	2	2	2	2	2	2	2	2	\$374,318
RANDALL PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
RAYBECK PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
REESOR PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
RISEBROUGH PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
ROXBURY PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
STARGELL PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
TOMLINSON PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
VICTORIA SQUARE PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
WILCLAY PARK	1	1	1	1	1	1	1	1	1	1	\$374,318
Total (#)	24	24	24	24	24	24	24	24	24	24	
Total (\$000)	\$8,983.6	\$8,983.6	\$8,983.6	\$8,983.6	\$8,983.6	\$8,983.6	\$8,983.6	\$8,983.6	\$8,983.6	\$8,983.6	



Minor Diamonds					# of Minor	Diamonds					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
JOHN XXIII CES (SHARED MAINTENANCE AGREEMENT)	1	1	1	1	1	1	1	1	1	1	\$187,159
ASHTON MEADOWS PARK	1	1	1	1	1	1	1	1	1	1	\$187,159
BAYTHORN PES	2	2	2	2	2	2	2	2	2	2	\$187,159
CROSBY PARK	1	1	1	1	1	1	1	1	1	1	\$187,159
DOREEN QUIRK PARK (EJ SANDS PES)	1	1	1	1	1	1	1	1	1	1	\$187,159
GRANDVIEW PARK	1	1	1	1	1	-	-	-	-	-	\$187,159
GREEN LANE PARK	1	-	-	-	-	-	-	-	-	-	\$187,159
LINCOLN PARK	1	1	1	1	1	1	1	1	1	1	\$187,159
MOTHER TERESA CES	-	1	1	1	1	1	1	1	1	1	\$187,159
PADDOCK PARK (UNDER FLOWERVALE PS)	1	1	1	1	-	-	-	-	-	-	\$187,159
PARKVIEW PES		1	1	1	1	1	1	1	1	1	\$187,159
RISEBROUGH PARK	1	1	1	1	1	1	1	1	1	1	\$187,159
ROBINSON PARK	2	2	2	2	2	2	2	2	2	2	\$187,159
UNIONVILLE PES	1	1	1	1	1	1	1	1	1	1	\$187,159
WILLIAM BERCZY PES	1	1	1	1	1	1	1	1	1	1	\$187,159
Total (#)	15	16	16	16	15	14	14	14	14	14	
Total (\$000)	\$2,807.4	\$2,994.5	\$2,994.5	\$2,994.5	\$2,807.4	\$2,620.2	\$2,620.2	\$2,620.2	\$2,620.2	\$2,620.2	

Tennis Courts - Lighted					# of Lighted	Tennis Courts					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
ARMADALE PARK	4	4	4	4	4	4	4	4	4	4	\$109,176
CARLTON PARK	9	9	9	9	9	9	9	9	9	9	\$109,176
DUNCAN PARK	3	3	3	3	3	3	3	3	3	3	\$109,176
HENDERSON PUBLIC SCHOOL(GRANDVIEW PARK /SCHOOL PROPERTY)	2	2	2	2	2	2	2	2	2	2	\$109,176
HIGHGATE PARK	3	3	3	3	3	3	3	3	3	3	\$109,176
JOHNSVIEW PARK	2	2	2	2	2	2	2	2	2	2	\$109,176
MORGAN PARK	2	2	2	2	2	2	2	2	2	2	\$109,176
POMONA MILLS PARK	6	6	6	6	6	6	6	6	6	6	\$109,176
REESOR PARK	6	6	6	6	6	6	6	6	6	6	\$109,176
SCHOOLHOUSE PARK	2	2	2	2	2	2	2	2	2	2	\$109,176
SIMONSTON PARK (GERMAN MILLS)	4	4	4	4	4	4	4	4	4	4	\$109,176
SOUTH UNIONVILLE PARK WEST	-	-	-	-	2	2	2	2	2	2	\$109,176
TOOGOOD PARK	2	2	2	2	2	2	2	2	2	2	\$109,176
Total (#)	45	45	45	45	47	47	47	47	47	47	
Total (\$000)	\$4,912.9	\$4,912.9	\$4,912.9	\$4,912.9	\$5,131.3	\$5,131.3	\$5,131.3	\$5,131.3	\$5,131.3	\$5,131.3	I



Tennis Courts - Unlighted					# of Unlighted	Tennis Courts					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2019	2019	(\$/unit)
ADA MACKENZIE PARK	-	-	2	2	2	2	2	2	2	2	\$93,580
BAYVIEW GLEN PARK	2	2	2	2	2	2	2	2	2	2	\$93,580
BERCZY PARK NORTH	2	2	2	2	2	2	2	2	2	2	\$93,580
BERCZY PARK SOUTH	2	2	2	2	2	2	2	2	2	2	\$93,580
BOX GROVE PARK	-	-	-	-	-	-	-	-	-	2	\$93,580
FRISBY PARK	-	-	-	-	2	2	2	2	2	2	\$93,580
HENRY WHITE PARK	2	2	2	2	2	2	2	2	2	2	\$93,580
LAURA AND ALF WEAVER PARK	-	-	-	-	-	-	-	-	2	2	\$93,580
ROBINSON PARK	2	2	2	2	2	2	2	2	2	2	\$93,580
ROY RAMER PARK	-	-	-	-	-	-	-	-	-	2	\$93,580
THORNLEA PSS	4	4	4	4	4	4	4	4	4	4	\$93,580
WISMER PARK	2	2	2	2	2	2	2	2	2	2	\$93,580
Total (#)	16	16	18	18	20	20	20	20	22	26	
Total (\$000)	\$1,497.3	\$1,497.3	\$1,684.4	\$1,684.4	\$1,871.6	\$1,871.6	\$1,871.6	\$1,871.6	\$2,058.8	\$2,433.1	



Basketball Courts					# of Baske	tball Courts					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
Half Court											
ARMADALE C.C.	1	1	1	1	1	1	1	1	1	1	\$43,670
ASHTON MEADOWS PARK	1	1	1	1	1	1	1	1	1	1	\$43,670
CENTENNIAL PARK	1	1	1	1	1	1	1	1	1	1	\$43,670
CORNELL CC & LIBRARY	-	-	-	-	-	1	1	1	1	1	\$43,670
ELSON PARK	1	1	1	1	1	1	1	1	1	1	\$43,670
ERNEST WIDEMAN PARK	-	-	-	-	-	1	1	1	1	1	\$43,670
HARMONY PARK	-	-	-	-	-	1	1	1	1	1	\$43,670
HENRY WHITE PARK	1	1	1	1	1	1	1	1	1	1	\$43,670
HIGHGATE PARK	1	-	-	-	-	-	-	-	-	-	\$43,670
JOHN CANNING PARK	1	1	1	1	1	1	1	1	1	1	\$43,670
MILLIKEN MILLS COMMUNITY PARK	1	1	1	1	1	1	1	1	1	1	\$43,670
RAY STREET PARK	-	-	1	1	1	1	1	1	1	1	\$43,670
SABLEWOOD PARK	1	1	1	1	1	1	1	1	1	1	\$43,670
SCHOOLHOUSE PARK	1	1	1	1	1	1	1	1	1	1	\$43,670
WILLIAM CANTLEY PARK	-	-	-	-	1	1	1	1	1	1	\$43,670
Full Court											
AANIIN PARK	-	-	-	-	-	1	1	1	1	1	\$81,102
ADA MACKENZIE PARK	-	-	1	1	1	1	1	1	1	1	\$81,102
BAYVIEW LANE PARK	1	1	1	1	1	1	1	1	1	1	\$81,102
BERCZY PARK SOUTH	1	1	1	1	1	1	1	1	1	1	\$81,102
BOX GROVE PARK	-	-	-	-	-	-	-	-	-	1	\$81,102
DENISON PARK	1	1	1	1	1	1	1	1	1	1	\$81,102
GORDON STOLLERY PARK	-	-	-	-	2	2	2	2	2	2	\$81,102
HIGHGATE PARK	-	1	1	1	1	1	1	1	1	1	\$81,102
JOHNSVIEW PARK	-	1	1	1	1	1	1	1	1	1	\$81,102
LEGACY PARK	1	1	1	1	1	1	1	1	1	1	\$81,102
LEIGHLAND PARK	1	1	1	1	1	1	1	1	1	1	\$81,102
MILLIKEN MILLS C.C. AND LIBRARY	1	1	1	1	1	1	1	1	1	1	\$81,102
WISMER PARK	1	1	1	1	1	1	1	1	1	1	\$81,102
Total (#)	17	18	20	20	23	27	27	27	27	28	
Total (\$000)	\$1,004.4	\$1,122.9	\$1,247.7	\$1,247.7	\$1,453.6	\$1,665.7	\$1,665.7	\$1,665.7	\$1,665.7	\$1,746.8	



Cricket Pitch	# of Cricket Pitches										
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
MCCOWAN RESERVOIR	2	2	2	2	2	2	2	2	2	2	\$827,574
YARL CEDARWOOD PARK	1	1	1	1	1	1	1	1	1	1	\$827,574
Total (#)	3	3	3	3	3	3	3	3	3	3	
Total (\$000)	\$2,482.7	\$2,482.7	\$2,482.7	\$2,482.7	\$2,482.7	\$2,482.7	\$2,482.7	\$2,482.7	\$2,482.7	\$2,482.7	

Rugby Pitch					# of Rugi	by Pitches					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
AUSTIN DRIVE	2	2	2	2	2	2	2	2	2	2	\$394,689
Total (#)	2	2	2	2	2	2	2	2	2	2	
Total (\$000)	\$789.4	\$789.4	\$789.4	\$789.4	\$789.4	\$789.4	\$789.4	\$789.4	\$789.4	\$789.4	

Outdoor Pools					# of Outd	oor Pools					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
MORGAN PARK	1	1	1	1	1	1	1	1	1	1	\$2,801,019
ROUGE RIVER C.C. AND POOL	1	1	1	1	1	1	1	1	1	1	\$1,247,727
Total (#)	2	2	2	2	2	2	2	2	2	2	
Total (\$000)	\$4,048.7	\$4,048.7	\$4,048.7	\$4,048.7	\$4,048.7	\$4,048.7	\$4,048.7	\$4,048.7	\$4,048.7	\$4,048.7	

Skate Parks					# of Ska	te Parks					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
Major											
BERCZY PARK SOUTH	-	-	-	-	1	1	1	1	1	1	\$1,122,954
CENTENNIAL	1	1	1	1	1	1	1	1	1	1	\$1,122,954
Minor											
ADA MACKENZIE PARK	-	-	1	1	1	1	1	1	1	1	\$249,545
BOX GROVE PARK	-	-	-	-	-	-	-	-	-	1	\$249,545
GORDON STOLLERY PARK	-	-	-	-	1	1	1	1	1	1	\$249,545
GRANDVIEW PARK	-	-	-	-	-	-	-	-	1	1	\$249,545
LAURA AND ALF WEAVER PARK							1	1	1	1	\$249,545
RAY STREET PARK	-	-	1	1	1	1	1	1	1	1	\$249,545
Total (#)	1	1	3	3	5	5	6	6	7	8	
Total (\$000)	\$1,123.0	\$1,123.0	\$1,372.5	\$1,372.5	\$2,745.0	\$2,745.0	\$2,745.0	\$2,745.0	\$2,994.5	\$3,244.1	



Playgrounds - Senior				# of Senior Playgrounds							UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2017	2017	2017	2017	(\$/unit)
AANIIN PARK	-	-	-	-	-	-	1	1	1	1	\$249,545
ABRAHAM STRICKLER PARK	-	-	-	-	-	1	1	1	1	1	\$249,545
ADA MACKENZIE PARK	-	-	-	-	-	-	1	1	1	1	\$249,545
ALICE CLARK PARK	-	-	-	-	-	1	1	1	1	1	\$249,545
ALMA WALKER PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
AMBER GLEN PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
ARMSTRONG PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
AUSTIN DRIVE RUGBY	1	1	1	1	1	1	1	1	1	1	\$249,545
AVOCA PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
BAYVIEW LANE PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
BAYVIEW RESERVOIR	1	1	1	1	1	1	1	1	1	1	\$249,545
BEAUPRE PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
BECKETT FARM PARK	-	-	-	-	-	-	-	1	1	1	\$249,545
BERCZY PARK SOUTH	1	1	1	1	1	1	1	1	1	1	\$249,545
BIANCA PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
BISHOP'S CROSS PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
CABOTO TRAIL PARKETTE	1	1	1	1	1	1	1	1	1	1	\$249,545
CAKEBREAD PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
CAROLYN CLEMENTS PARK	-	-	-	-	1	1	1	1	1	1	\$249,545
CEDAR GROVE PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
CENTENNIAL PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
CENTRAL PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
CLARENCE CHANT PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
COLEDALE PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
COLTY CORNERS	1	1	1	1	1	1	1	1	1	1	\$249,545
COPPARD PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
CORNELL C.C AND LIBRARY	-	-	-	-	-	-	-	-	1	1	\$249,545
DRAKE PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
DUNCAN PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
ELEANOR CASELY PARK	-	-	-	-	-	-	1	1	1	1	\$249,545
ELSON PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
ERNEST WIDEMAN PARK	-	-	-	-	-	1	1	1	1	1	\$249,545
FEATHERSTONE PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
FINCHAM PARK	2	2	2	2	2	2	2	2	2	2	\$249,545
FRANK H JOHNSON PARK	-	-	-	-	-	-	-	1	1	1	\$249,545
FREDERICK PETERSON PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
GEORGE COUPERWAITE PARK	1	1	1	1	1	1	1	1	1	1	\$249,545
GEORGE COUPERWAITE PARK WEST	-	-	-	-	1	1	1	1	1	1	\$249,545
GERTRUDE HELSY PARK	1	1	1	1	1	1	1	1	1	1	\$249,545



Playgrounds - Senior	# of Senior Playgrounds												
Park Name	2012	2013	2014	2015	2016	2017	2017	2017	2017	2017	(\$/unit)		
GLENCREST PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
GORDON STOLLERY PARK	-	-	-	-	1	1	1	1	1	1	\$249,545		
GRAND CORNELL PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
GRANDVIEW PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
GREEN LANE PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
HARMONY PARK	-	-	-	-	-	1	1	1	1	1	\$249,545		
HIGHGATE PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
HUNTINGTON PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
INNIS MACDONALD PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
JAMES COCHRANE PARK	-	-	-	-	-	1	1	1	1	1	\$249,545		
JAMES EDWARD PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
JAMES THOMAS PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
JOHN BAIRD WOODS	-	-	-	-	1	1	1	1	1	1	\$249,545		
JOHN CANNING PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
JOHN PAYNE PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
JOHNSVIEW PARK	2	2	2	2	2	2	2	2	2	2	\$249,545		
JOSEPH ELLERBY PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
KAMIL SADIQ PARK			1	1	1	1	1	1	1	1	\$249,545		
LEGACY PARK	2	2	2	2	2	2	2	2	2	2	\$249,545		
LEITCHCROFT PARK	1	1	1	1	1	1	1	1	1	- 1	\$249,545		
LINCOLN PARK	1	1	1	1	- 1	1	- 1	1	1	1	\$249,545		
MATTHEW RAE PARK	1	1	1	1	1	1	1	1	1	- 1	\$249,545		
MCCOWAN FREEMAN PARKETTE	-	-	1	1	1	1	1	1	1	1	\$249,545		
MCCREIGHT PARKETTE	1	1	1	1	- 1	1	1	1	1	- 1	\$249,545		
MIDDLETON PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
MILLENNIUM PARK	1	1	1	1	1	1	1	1	1	- 1	\$249,545		
MILLIKEN MILLS COMMUNITY PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
MILTON FIERHELLER PARK	1	1	1	1	1	1	1	1	1	- 1	\$249,545		
MINTLEAF PARK	1	1	1	1	- 1	1	1	1	1	1	\$249,545		
MONARCH PARK	1	1	1	1	1	1	1	1	1	- 1	\$249,545		
PADDOCK PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
PAT WHEELER PARK	-	-	-	-	-	-	1	1	1	1	\$249,545		
PEACE PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
PERSONNA PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
PIONEER PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
POMONA MILLS PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
POTTERY PARK	-	-	-	-	-	-	-	-	1	1	\$249,545		
QUANTZTOWN PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
RANDALL PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
RAY STREET PARK	-	-	1	1	1	1	1	1	1	1	\$249,545		
RAYBECK PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		



Playgrounds - Senior		# of Senior Playgrounds											
Park Name	2012	2013	2014	2015	2016	2017	2017	2017	2017	2017	(\$/unit)		
READ'S CORNER PARK	-	-	-	-	1	1	1	1	1	1	\$249,545		
REESOR PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
REEVE PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
ROBERT GRUNDY PARKETTE	1	1	1	1	1	1	1	1	1	1	\$249,545		
ROMFIELD PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
ROSS BROWN PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
ROXBURY PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
ROY WALKER PARKETTE	1	1	1	1	1	1	1	1	1	1	\$249,545		
RUSSELL CARTER TEFFT PARK	-	-	-	-	-	-	-	1	1	1	\$249,545		
SABLEWOOD PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
SCHOOLHOUSE PARK	-	-	-	-	-	-	2	2	2	2	\$249,545		
SINCLAIR HOLDEN PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
SOUTH UNIONVILLE PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
SPARTA WOODS PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
SPRINGDALE PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
STARGELL PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
STONEFARM PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
SUMMERDALE PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
VANHORN PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
VICTORIA SQUARE PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
WESTPHALEN PARK	-	-	-	-	-	1	1	1	1	1	\$249,545		
WINDFIELDS PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
WINDY HILL PARK	1	1	1	1	1	1	1	1	1	1	\$249,545		
								_					
Total (#)	4,106	4,108	4,113	4,115	4,122	4,130	4,136	4,139	4,141	4,141			
Total (\$000)	\$20,462.7	\$20,462.7	\$21,211.3	\$21,211.3	\$22,459.1	\$23,956.3	\$25,453.6	\$26,202.2	\$26,701.3	\$26,701.3			



Playgrounds - Junior					# of Junior P	laygrounds					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2018	2018	2021	(\$/unit)
AANIIN PARK	-	-	-	-	-	-	1	1	1	1	\$187,159
ABRAHAM STRICKLER PARK	-	-	-	-	-	1	1	1	1	1	\$187,159
ADA MACKENZIE PARK	-	-	-	-	-	-	1	1	1	1	\$187,159
ALMA WALKER PARK	1	1	1	1	1	1	1	1	-	-	\$187,159
APPLE CREEK PARK	1	-	-	-	-	-	-	-	-	-	\$187,159
AVOCA PARK	1	1	1	1	1	1	1	1	1	1	\$187,159
BAYVIEW LANE PARK	1	1	1	1	1	1	1	1	1	1	\$187,159
BEAUPRE PARK	1	1	1	1	1	1	1	1	1	1	\$187,159
BERCZY PARK NORTH	1	1	1	1	1	1	1	1	1	1	\$187,159
BERCZY PARK SOUTH	2	1	1	1	1	1	1	1	1	1	\$187,159
BIANCA PARK	1	1	1	1	1	1	1	1	1	1	\$187,159
BRIAN CHATLAND PARK	-	-	-	1	1	1	1	1	1	1	\$187,159
BRUCE BOYD PARKETTE	1	1	1	1	1	1	1	1	1	1	\$187,159
CENTENNIAL PARK	1	-	-	-	-	-	-	-	-	-	\$187,159
CENTRAL PARK	1	-	-	-	-	-	-	-	-	-	\$187,159
CHELSEA PARK	1	1	1	1	1	1	1	1	1	1	\$187,159
CORNELL ROUGE WOODS	2	2	2	2	2	2	2	2	2	2	\$187,159
COUNTRY GLEN PARKETTE	1	1	1	1	1	1	1	1	1	1	\$187,159
DONALD CLARK PARK	1	1	1	1	1	1	1	1	1	1	\$187,159
EDITH M MAIRS PARK	1	1	1	1	1	1	1	1	1	1	\$187,159
ELEANOR CASELY PARK	-	-	-	-	-	-	1	1	1	1	\$187,159
ELSON PARK	1	1	1	1	1	1	1	1	1	1	\$187,159
ERNEST WIDEMAN PARK	-	-	-	-	-	1	1	1	1	1	\$187,159
FLORENCE & DONALD DEACON PARK	-	-	-	-	-	-	1	1	1	1	\$187,159
GEORGE COUPERWAITE PARK	1	1	1	1	1	1	1	1	1	1	\$187,159
GEORGE COUPERWAITE PARK EAST	-	-	-	-	1	1	1	1	1	1	\$187,159
GORDON LEITCH PARK	-	-	-	-	-	-	-	-	-	1	\$187,159
GRAND CORNELL PARK	1	1	1	1	1	1	1	1	1	1	\$187,159
GREEN LANE PARK	1	1	1	1	1	1	1	1	1	1	\$187,159
HARMONY PARK	-	-	-	-	-	1	1	1	1	1	\$187,159
JAMES COCHRANE PARK	-	-	-	-	-	1	1	1	1	1	\$187,159
JAMES EDWARD PARK	1	1	1	1	1	1	1	1	1	1	\$187,159
JEANNE CHARLOTTE ALLA PARK	-	-	-	-	-	1	1	1	1	1	\$187,159
JOHN BAIRD WOODS	-	-	-	-	1	1	1	1	1	1	\$187,159
JOHN DANIELS PARK	2	2	2	2	2	2	2	2	2	2	\$187,159
JOHN FERRARA PARK	-	-	-	-	-	2	2	2	2	2	\$187,159
JOHN MAPES PARKETTE	1	1	1	1	1	1	1	1	1	1	\$187,159
JOHNSVIEW	1	-	-	-	-	-	-	-	-	-	\$187,159



Playgrounds - Junior		# of Junior Playgrounds											
Park Name	2012	2013	2014	2015	2016	2017	2018	2018	2018	2021	(\$/unit)		
JOSEPH ELLERBY PARK	1	1	1	1	1	1	1	1	1	1	\$187,159		
LEGACY PARK	1	1	1	1	1	1	1	1	1	1	\$187,159		
LINDSAY BOLGER PARK	-	-	-	-	-	1	1	1	1	1	\$187,159		
LUNDY PARK	1	1	1	1	1	1	1	1	1	1	\$187,159		
MARKHAM CIVIC CENTRE	2	2	2	2	-	-	-	-	-	-	\$187,159		
MCCOWAN FREEMAN PARKETTE	-	-	1	1	1	1	1	1	1	1	\$187,159		
MORGAN PARK	1	1	1	1	1	1	1	1	1	1	\$187,159		
NAPIER SIMPSON PARK (Kamil Sadik Park)	-	-	1	1	1	1	1	1	1	1	\$187,159		
NORDINGLEN PARK	-	1	1	1	1	1	1	1	1	1	\$187,159		
PAT WHEELER PARK	-	-	-	-	-	-	1	1	1	1	\$187,159		
POMONA MILLS PARK	1	-	-	-	-	-	-	-	-	-	\$187,159		
QUANTZTOWN PARK	2	1	1	1	1	1	1	1	1	1	\$187,159		
RANDALL PARK	1	-	-	-	-	-	-	-	-	-	\$187,159		
RAYNESWOOD PARK	1	1	1	1	1	1	1	1	1	1	\$187,159		
READ'S CORNER PARK	-	-	-	-	1	1	1	1	1	1	\$187,159		
ROBERT GRUNDY PARKETTE	1	-	-	-	-	-	-	-	-	-	\$187,159		
ROMFIELD PARK	1	-	-	-	-	-	-	-	-	-	\$187,159		
ROXBURY PARK	1	2	2	2	2	2	2	2	2	2	\$187,159		
RUSSELL CARTER TEFFT PARK	-	-	-	-	-	-	-	1	1	1	\$187,159		
SHANIA JOHNSTON PARKETTE	1	1	1	1	1	1	1	1	1	1	\$187,159		
SIR ROBERT WATSON	-	-	1	1	1	1	1	1	1	1	\$187,159		
SPRINGDALE PARK	1	1	1	1	1	1	1	1	1	1	\$187,159		
SPRUCEWOOD PARK	1	1	1	1	1	1	1	1	1	1	\$187,159		
TOOGOOD PARK	1	1	1	1	1	1	1	1	1	1	\$187,159		
UNITY PARK	1	1	1	1	1	1	1	1	1	1	\$187,159		
WESTPHALEN PARK	-	-	-	-	-	-	1	1	1	1	\$187,159		
WILCLAY PARK	1	1	1	1	1	1	1	1	1	1	\$187,159		
WILLIAM ROBB PARK	1	1	1	1	1	1	1	1	1	1	\$187,159		
Total (#)	2,060	2,053	2,057	2,059	2,061	2,070	2,077	2,078	2,077	2,081			
Total (\$000)	\$8,983.6	\$7,486.4	\$8,047.8	\$8,235.0	\$8,422.2	\$9,919.4	\$11,042.4	\$11,229.5	\$11,042.4	\$11,229.5			



Playgrounds - Senior & Junior	# of Senior & Junior Playgrounds											
Park Name	2012	2013	2014	2015	2016	2017	2018	2018	2018	2021	(\$/unit)	
ABRAHAM IREDELL PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
ALDERGROVE PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
ANGUS GLEN VILLAGE GREEN	1	1	1	1	1	1	1	1	1	1	\$338,669	
APPLE CREEK PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
ARMADALE PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
ART LATCHAM PARK	-	-	-	-	1	1	1	1	1	1	\$338,669	
ASHTON MEADOWS PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
BAYVIEW GLEN PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
BENJAMIN MARR PARK - NORTH	1	1	1	1	1	1	1	1	1	1	\$338,669	
BENJAMIN MARR PARK - SOUTH	1	1	1	1	1	1	1	1	1	1	\$338,669	
BERNBRIDGE PARK	-	-	-	-	1	1	1	1	1	1	\$338,669	
BOX GROVE PARK	-	-	-	-	-	-	-	-	-	1	\$338,669	
BRIARWOOD PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
CALVERT PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
CARLTON PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
CENTENNIAL PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
COLEDALE PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
CORNELL ROUGE WOODS	1	1	1	1	1	1	1	1	1	1	\$338,669	
CORNELL WOODLOT PARK	-	-	-	-	-	-	-	-	1	1	\$338,669	
DENISON PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
E.B.F. ROBINSON PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
FRANKLIN CARMICHAEL PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
FREDERICK BAGG PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
FRISBY PARK	-	-	-	-	1	1	1	1	1	1	\$338,669	
GORDON STOLLERY PARK	-	-	-	-	1	1	1	1	1	1	\$338,669	
HAROLD HUMPHREYS PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
HARVEST GATE PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
HENRY WHITE PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
HUGHSON PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
IVAN REESOR PARK	-	-	-	-	1	1	1	1	1	1	\$338,669	
JOHN BAIRD WOODS	-	-	-	-	1	1	1	1	1	1	\$338,669	
JOHN BUTTON PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
JOHN CANNING PARK	1	1	1	1	1	1	1	1	1	1	\$338,669	
JOHN STEGMAN WOODS	1	1	1	1	1	1	1	1	1	1	\$338,669	



Playgrounds - Senior & Junior - cont'd				#	of Senior & Ju	nior Playgroun	ds				UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
LEIGHLAND PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
LEITCHCROFT PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
LLOYD ROBERTSON PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
MARION MAYNARD ROBIN PARK	-	-	-	-	-	1	1	1	1	1	\$338,669
MILLIKEN MILLS COMMUNITY PARK	2	2	2	2	2	2	2	2	2	2	\$338,669
MORGAN PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
MOUNT JOY PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
NICHOLAS MILLER PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
PETER BAWDEN PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
POTTERY PARK	-	-	-	-	-	-	-	-	1	1	\$338,669
PROCTOR PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
RAILSIDE PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
RANDALL PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
RAY STREET PARK	-	-	1	1	1	1	1	1	1	1	\$338,669
RISEBROUGH PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
RIVERWALK PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
ROBERT GRUNDY PARKETTE	1	1	1	1	1	1	1	1	1	1	\$338,669
ROBERT SPINDLOE PARK	-	-	-	-	-	-	-	-	-	1	\$338,669
ROBINSON PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
ROUGEHAVEN PARKETTE	1	1	1	1	1	1	1	1	1	1	\$338,669
ROY RAMER PARK	-	-	-	-	-	-	-	-	-	1	\$338,669
SIMONSTON PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
SOUTH UNIONVILLE PARK WEST	-	-	-	-	1	1	1	1	1	1	\$338,669
SPEIGHT PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
SWAN LAKE PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
THE MEWS PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
THOMAS FRISBY WOODLOT	1	1	1	1	1	1	1	1	1	1	\$338,669
TOMLINSON PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
UPPER CORNELL PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
VICTORIA SQUARE PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
WILCLAY PARK	1	1	1	1	1	1	1	1	1	1	\$338,669
WILLIAM CANTLEY PARK	-	-	-	-	1	1	1	1	1	1	\$338,669
WISMER PARK	2	2	2	2	2	2	2	2	2	2	\$338,669
YARL CEDARWOOD PARK	2	2	2	2	2	2	2	2	2	2	\$338,669
Total (#)	56	56	57	57	65	66	66	66	68	71	
Total (\$000)	\$18,965.5	\$18,965.5	\$19,304.1	\$19,304.1	\$22,013.5	\$22,352.2	\$22,352.2	\$22,352.2	\$23,029.5	\$24,045.5	



Waterplay - Minor					# of Minor Wat	terplay Parks					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
BAYVIEW LANE PARK	1	1	1	1	1	1	1	1	1	1	\$185,912
BENJAMIN MARR PARK - NORTH	1	1	1	1	1	1	1	1	1	1	\$185,912
BOX GROVE PARK	-	-	-	-	-	-	-	-	-	1	\$185,912
JOHN PAYNE PARK	1	1	1	1	1	1	1	1	1	1	\$185,912
SOUTH UNIONVILLE PARK	1	1	1	1	1	1	1	1	1	1	\$185,912
THOMAS MCQUAY PARK	1	1	1	1	1	1	1	1	1	1	\$185,912
Total (#)	5	5	5	5	5	5	5	5	5	6	
Total (\$000)	\$929.6	\$929.6	\$929.6	\$929.6	\$929.6	\$929.6	\$929.6	\$929.6	\$929.6	\$1,115.5	

Waterplay - Major					# of Major Wa	aterplay Parks					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
ADA MACKENZIE PARK	-	-	1	1	1	1	1	1	1	1	\$499,091
ASHTON MEADOWS PARK	1	1	1	1	1	1	1	1	1	1	\$499,091
BEAUPRE PARK	1	1	1	1	1	1	1	1	1	1	\$499,091
BERCZY PARK NORTH	-	-	1	1	1	1	1	1	1	1	\$499,091
GEORGE COUPERWAITE EAST	-	-	-	-	1	1	1	1	1	1	\$499,091
GORDON STOLLERY PARK	-	-	-	-	1	1	1	1	1	1	\$499,091
HENRY WHITE PARK	1	1	1	1	1	1	1	1	1	1	\$499,091
JAMES EDWARD PARK	1	1	1	1	1	1	1	1	1	1	\$499,091
MILLENNIUM PARK	1	1	1	1	1	1	1	1	1	1	\$499,091
MILLIKEN MILLS COMMUNITY PARK	1	1	1	1	1	1	1	1	1	1	\$499,091
MORGAN PARK	-	-	-	-	-	-	-	1	1	1	\$499,091
POTTERY PARK	-	-	-	-	-	-	-	1	1	1	\$499,091
RAY STREET PARK	-	-	1	1	1	1	1	1	1	1	\$499,091
ROSEBERRY PARK	-	-	1	1	1	1	1	1	1	1	\$499,091
RUSSELL CARTER TEFFT PARK	-	-	-	-	-	-	-	1	1	1	\$499,091
SIMONSTON PARK	1	1	1	1	1	1	1	1	1	1	\$499,091
SWAN LAKE PARK	1	1	1	1	1	1	1	1	1	1	\$499,091
TOMLINSON PARK	1	1	1	1	1	1	1	1	1	1	\$499,091
UPPER CORNELL PARK	1	1	1	1	1	1	1	1	1	1	\$499,091
VICTORIA SQUARE PARK	-	1	1	1	1	1	1	1	1	1	\$499,091
WILLIAM CANTLEY PARK	-	-	-	-	1	1	1	1	1	1	\$499,091
WISMER PARK	1	1	1	1	1	1	1	1	1	1	\$499,091
YARL CEDARWOOD PARK	1	1	1	1	1	1	1	1	1	1	\$499,091
Total (#)	12	13	17	17	20	20	20	23	23	23	
Total (\$000)	\$5,989.1	\$6,488.2	\$8,484.5	\$8,484.5	\$9,981.8	\$9,981.8	\$9,981.8	\$11,479.1	\$11,479.1	\$11,479.1	



Rock Climbing Wall					# of \	Walls	# of Walls											
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)							
FRANK H. JOHNSON PARK	-	-	-	-	-	-	-	-	1	1	\$39,927							
RAY STREET PARK	-	-	1	1	1	1	1	1	1	1	\$39,927							
SOUTH UNIONVILLE	-	-	-	-	-	1	1	1	1	1	\$39,927							
Total (#)	-	-	1	1	1	2	2	2	3	3								
Total (\$000)	\$0.0	\$0.0	\$39.9	\$39.9	\$39.9	\$79.9	\$79.9	\$79.9	\$119.8	\$119.8								

Exercise Station					# of S	tations					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
AANIIN PARK	-	-	-	-	-	-	-	-	1	1	\$93,580
ADA MACKENZIE PARK	-	-	1	1	1	1	1	1	1	1	\$93,580
ALMA WALKER	-	-	-	-	-	-	3	3	3	3	\$93,580
ARMADALE PARK	-	-	-	1	1	1	1	1	1	1	\$93,580
ARMSTRONG PARK	-	-	-	-	-	-	-	-	1	1	\$93,580
ART LATCHAM PARK	-	-	-	-	2	2	2	2	2	2	\$93,580
BERCZY PARK SOUTH	1	1	1	1	1	1	1	1	1	1	\$93,580
BISHOPS CROSS PARK	-	-	-	6	6	6	6	6	6	6	\$93,580
E.B.F. ROBINSON PARK	-	-	-	-	-	-	3	3	3	3	\$93,580
ERNEST WIDEMAN PARK	-	-	-	-	-	2	2	2	2	2	\$93,580
FEATHERSTONE	-	-	-	-	-	-	-	-	3	3	\$93,580
FRANK H JOHNSON PARK	-	-	-	-	-	-	-	1	1	1	\$93,580
FRISBY PARK	-	-	-	-	1	1	1	1	1	1	\$93,580
HENRY WHITE PARK	-	-	-	1	1	1	1	1	1	1	\$93,580
HIGHGATE PARK	-	-	-	-	-	-	3	3	3	3	\$93,580
JOHN BUTTON	-	-	-	-	-	-	-	-	3	3	\$93,580
LAURA AND ALF WEAVER PARK	-	-	-	-	-	-	1	1	1	1	\$93,580
MONARCH PARK	-	-	-	-	-	-	3	3	3	3	\$93,580
RAY STREET PARK	-	-	2	2	2	2	2	2	2	2	\$93,580
ROSEBERRY PARK	-	-	2	2	2	2	2	2	2	2	\$93,580
SIMONSTON PARK	-	-	-	-	-	-	3	3	3	3	\$93,580
SOUTH UNIONVILLE PARK WEST	-	-	-	-	1	1	1	1	1	1	\$93,580
WESTPHALEN PARK	-	-	-	-	-	-	1	1	1	1	\$93,580
WILLIAM CANTLEY PARK	-	-	-	-	2	2	2	2	2	2	\$93,580
WISMER PARK	-	-	-	-	-	-	3	3	3	3	\$93,580
Total (#)	1	1	6	14	20	22	42	43	51	51	
Total (\$000)	\$93.6	\$93.6	\$561.5	\$1,310.1	\$1,871.6	\$2,058.8	\$3.930.4	\$4.023.9	\$4.772.6	\$4,772.6	



Skating Rinks					# of Fa	cilities					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
MARKHAM CIVIC CENTRE	1	1	1	1	1	1	1	1	1	1	\$6,111,315
Total (#)	1	1	1	1	1	1	1	1	1	1	
Total (\$000)	\$6,111.3	\$6,111.3	\$6,111.3	\$6,111.3	\$6,111.3	\$6,111.3	\$6,111.3	\$6,111.3	\$6,111.3	\$6,111.3	

Golf Course					# of Fa	cilities					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
MARKHAM GREEN GOLF CLUB	1	1	1	1	1	1	1	1	1	1	\$7,511,825
Total (#)	1	1	1	1	1	1	1	1	1	1	
Total (\$000)	\$7,511.8	\$7,511.8	\$7,511.8	\$7,511.8	\$7,511.8	\$7,511.8	\$7,511.8	\$7,511.8	\$7,511.8	\$7,511.8	



CITY OF MARKHAM INVENTORY OF CAPITAL ASSETS PARK DEVELOPMENT & FACILITIES DEVELOPED PARKLAND

Developed Parkland				#	of Hectares of	Developed Are	ea				UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
Traditional Developed Parkland	653	664	677	681	689	692	699	713	721	734	\$430,512
Urban Developed Parkland	-	1	2	2	2	2	2	2	2	2	\$1,551,741
Parks Share East Yard - 10192 Ninth Line	=	-	-	-	-	-	-	-	2	2	\$950,000
Total (ha)	653.32	665.19	678.03	682.03	690.71	693.35	700.79	715.38	725.17	738.29	
Total (\$000)	\$281,261.5	\$287,491.6	\$293,609.1	\$295,329.9	\$299,065.3	\$300,201.9	\$303,965.5	\$310,246.7	\$315,710.6	\$321,359.0	



APPENDIX B.5

TABLE B.5-1

Wooden Bridges					# of Line	ear Feet					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/ft)
Armadale Park 3 Structure(s)	60	60	60	60	60	60	60	60	60	60	\$749
Bruce's Creek 1 Structure(s)	-	-	-	385	385	385	385	385	385	385	\$749
Campbell Park 2 Structure(s)	-	-	-	163	163	163	163	163	163	163	\$749
Coppard Park 1 Structure(s)	8	8	8	8	8	8	8	8	8	8	\$749
Denison Park 1 Structure(s)	8	8	8	8	8	8	8	8	8	8	\$749
Edward T Crowle PES 1 Structure(s)	45	45	45	45	45	45	45	45	45	45	\$749
Featherstone Park 1 Structure(s)	8	8	8	8	8	8	8	8	8	8	\$749
Grand Cornell Park 1 Structure(s)	8	8	8	8	8	8	8	8	8	8	\$749
James Edward Park 1 Structure(s)	8	8	8	8	8	8	8	8	8	8	\$749
John Button Waterway South 2 Structure(s)	22	-	-	-	-	-	-	-	-	-	\$749
Middlefield Corners 1 Structure(s)	16	16	16	16	16	16	16	16	16	16	\$749
Milne Dam Conservation Park 1 Structure(s)	44	44	44	44	44	44	44	44	44	44	\$749
Pomona Mills Park 1 Structure(s)	18	18	18	18	18	18	18	18	18	18	\$749
Quantztown Park 1 Structure(s)	25	25	25	25	25	25	25	25	25	25	\$749
Randall Park 2 Structure(s)	16	16	16	16	16	16	16	16	16	16	\$749
Robinson Park 1 Structure(s)	22	22	22	22	22	22	22	22	22	22	\$749
Springdale Park 2 Structure(s)	91	91	91	91	91	91	91	91	91	91	\$749
Swan Lake Park 1 Structure(s)	26	26	26	26	26	26	26	26	26	26	\$749
Tannery Pond 1 Boardwalk	416	416	416	416	416	416	416	416	416	416	\$749
Toogood Pond (Millstone Crt) 1 Structure(s)	224	224	224	224	224	224	224	224	224	224	\$749
Toogood Pond (Normandale Rd) 2 Structure(s)	225	225	225	225	225	225	225	225	225	225	\$749
Toogood Pond 1 Fishing Platform	55	55	55	55	55	55	55	55	55	55	\$749
Toogood Pond (Pennock Cres) 4 Structure(s)	395	395	395	395	395	395	395	395	395	395	\$749
Total (sq.ft.)	1.740	1.718	1.718	2.266	2,266	2,266	2.266	2.266	2.266	2.266	
Total (\$000)	\$1,303.3	\$1,286.8	\$1,286.8	\$1,697.2	\$1,697.2	\$1,697.2	\$1,697.2	\$1,697.2	\$1,697.2	\$1,697.2	



APPENDIX B.5

TABLE B.5-1

Steel Bridges					# of Lin	ear Feet					UNIT COST
Park Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/ft)
14th Ave MUP 1 Structure(s)	-	-	-	-	150	150	150	150	150	150	\$3,119
Apple Creek North 1 Structure(s)	42	42	42	42	42	42	42	42	42	42	\$3,119
Austin Drive Park 3 structure(s)	203	203	203	203	203	203	203	203	203	203	\$3,119
Berczy Pond 1 Structure(s)	120	120	120	120	120	120	120	120	120	120	\$3,119
Boswell Valley South 1 Structure(s)	55	55	55	55	55	55	55	55	55	55	\$3,119
Bruce's Creek 2 Structure(s)	166	166	166	166	166	166	166	166	166	166	\$3,119
Campbell Park 5 Structure(s)	137	137	137	337	337	337	337	337	337	337	\$3,119
Cedar Valley 1 structure(s)	151	151	151	151	151	151	151	151	151	151	\$3,119
Cochrane Pond	60	60	60	60	60	60	60	60	60	60	\$3,119
Denby Valley 2 structure(s)	163	163	163	163	163	163	163	163	163	163	\$3,119
Doreen Quirk Park 1 structure(s)	62	62	62	62	62	62	62	62	62	62	\$3,119
Fairtree Pond 1 structure(s)	138	138	138	138	138	138	138	138	138	138	\$3,119
George Couperwaite Park 1 structure(s)	60	60	60	60	60	60	60	60	60	60	\$3,119
German Mills Settler's Park 2 structure(s)	84	84	84	84	84	84	84	84	84	84	\$3,119
Heisey Trail 2 structure(s)	40	40	40	40	40	40	40	40	40	40	\$3,119
Huntington Park 1 structure(s)	32	32	32	32	32	32	32	32	32	32	\$3,119
John Button Waterway North 1 Structure(s)	44	44	44	44	44	44	44	44	44	44	\$3,119
John Button Waterway South 2 Structure(s)	-	104	104	104	104	104	104	104	104	104	\$3,119
John Canning Park 1 structure(s)	18	18	18	18	18	18	18	18	18	18	\$3,119
Mildred Temple Park 1 structure(s)	31	31	31	31	31	31	31	31	31	31	\$3,119
Milne Dam Conservation Park 2 Structure(s)	54	54	54	68	68	242	242	242	840	840	\$3,119
Milne Floating (Plastic) 1 structure(s)	56	56	56	56	56	56	56	56	56	56	\$3,119
Mount Joy C.C. and Park 1 structure(s)	81	81	81	81	81	81	81	81	81	81	\$3,119
Personna Park 1 structure(s)	30	30	30	30	30	30	30	30	30	30	\$3,119
Pomona Mills Park 3 structure(s)	203	203	203	203	203	217	217	217	217	217	\$3,119
Royal Orchard Park 1 structure(s)	54	54	54	54	54	54	54	54	54	54	\$3,119
Smoothwater Valley North 1 structure(s)	57	57	57	57	57	57	57	57	57	57	\$3,119
South Unionville Pond 1 structure(s)	57	57	57	57	57	57	57	57	57	57	\$3,119
Summerdale Park 1 structure(s)	25	25	25	25	25	25	25	25	25	25	\$3,119
Swan Lake Park 1 structure(s)	41	41	41	41	41	60	60	60	60	60	\$3,119
Tannery Pond 1 structure(s)	-	-	60	60	60	60	60	60	60	60	\$3,119
Toogood Pond (Aitken Crt) 3 structure(s)	150	150	150	150	150	150	150	150	150	150	\$3,119
Toogood Pond (Millstone Crt) 1 Structure(s)	55	55	55	55	55	112	112	112	112	112	\$3,119
Toogood Pond (Normandale Rd) 4 structure(s)	206	206	206	206	206	206	206	206	206	206	\$3,119
Toogood Pond Dam 1 structure(s)	356	356	356	356	356	356	356	356	356	356	\$3,119
Unionville H.S. 1 structure(s)	46	46	46	46	46	46	46	46	46	46	\$3,119
Unionville Library 2 structure(s)	56	56	67	67	67	67	67	67	67	67	\$3,119
Viva Woodlot 1 structure(s)	160	160	160	160	160	160	160	160	160	160	\$3,119
Walden 3 structure(s)	206	206	206	206	206	206	206	206	206	206	\$3,119
Wycliffe 1 structure(s)	60	60	60	60	60	60	60	60	60	60	\$3,119
	2 550	2.000	0.704	2.040	4 000	4.000	4.000	4 909	4.000	4.000	
Total (#)	3,559	3,663	3,734	3,948	4,098	4,362	4,362	4,362	4,960	4,960	
Total (\$000)	\$11,100.5	\$11,424.9	\$11,646.3	\$12,313.8	\$12,781.7	\$13,605.1	\$13,605.1	\$13,605.1	\$15,470.2	\$15,470.2	





TABLE B.5-1

Pathways					# of Linea	ar Metres					UNIT COST
Туре	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
Paved Surface	40,265	40,265	40,265	40,265	92,869	93,816	93,816	93,816	93,816	93,816	\$87
Stone Surface	37,419	37,419	37,419	37,419	35,246	48,035	48,035	48,035	48,035	48,035	\$62
Woodchip Surface	2,515	2,515	2,515	2,515	2,515	3,327	3,327	3,327	3,327	3,327	\$62
Concrete Surface	8,720	8,720	8,720	8,720	31,192	50,114	50,114	50,114	50,114	50,114	\$125
Interlock Surface	651	651	651	651	651	2,452	2,452	2,452	2,452	2,452	\$281
Boardwalk	242	242	242	242	1,035	1,380	1,380	1,380	1,380	1,380	\$707
Total (#)	89,812	89,812	89,812	89,812	163,508	199,124	199,124	199,124	199,124	199,124	
Total (\$000)	\$7,423.0	\$7,423.0	\$7,423.0	\$7,423.0	\$15,234.5	\$19,275.4	\$19,275.4	\$19,275.4	\$19,275.4	\$19,275.4	1

Illumination					# of	Poles					UNIT COST
Location	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
Pathways	618	667	698	698	716	811	836	836	836	836	\$8,110
Parking Lots	45	45	47	47	47	313	315	315	315	315	\$11,230
Gazebo	41	42	43	44	45	55	62	63	69	69	\$8,002
In Wall	29	29	29	29	29	58	58	58	58	58	\$8,110
In Ground	7	28	28	28	28	35	45	45	45	45	\$8,110
Total (#)	740	811	845	846	865	1,272	1,316	1,317	1,323	1,323	
Total (\$000)	\$6,137.4	\$6,713.1	\$6,994.9	\$7,002.9	\$7,156.9	\$11,286.5	\$11,648.9	\$11,656.9	\$11,704.9	\$11,704.9	





TABLE B.5-1

Landscaping					Square	Metres					UNIT COST
Туре	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/sq.m.)
Landscape (<5000 square metres)	66,333	66,333	66,333	66,333	66,333	66,333	66,333	66,333	66,333	66,333	\$10
Landscape (>5000 square metres)	16,786	16,786	16,786	16,786	16,786	16,786	16,786	16,786	16,786	16,786	\$5
Total (#)	83,119	83,119	83,119	83,119	83,119	83,119	83,119	83,119	83,119	83,119	
Total (\$000)	\$747.3	\$747.3	\$747.3	\$747.3	\$747.3	\$747.3	\$747.3	\$747.3	\$747.3	\$747.3	

Parking Lots					Square	Metres					UNIT COST
Туре	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/sq.m.)
Paved	55,239	55,239	55,239	60,073	60,073	185,308	186,616	186,616	188,420	188,420	\$125
Unpaved	39,896	39,896	39,896	39,896	39,896	18,779	18,779	18,779	18,779	18,779	\$60
Total (#)	95,135	95,135	95,135	99,969	99,969	204,087	205,395	205,395	207,199	207,199	
Total (\$000)	\$9,298.6	\$9,298.6	\$9,298.6	\$9,902.9	\$9,902.9	\$24,290.2	\$24,453.7	\$24,453.7	\$24,679.2	\$24,679.2	



APPENDIX B.5

TABLE B.5-1

CITY OF MARKHAM

CALCULATION OF SERVICE LEVELS

PARK DEVELOPMENT & FACILITIES

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Historical Population	301,709	306,973	312,329	317,779	323,324	328,966	333,938	338,985	344,109	349,310	354,589

INVENTORY SUMMARY (\$000)

Total (\$000)	\$562,029.6	\$563,919.3	\$573,814.6	\$585,117.4	\$589,864.3	\$612,885.5	\$642,693.4	\$652,736.4	\$661,736.5	\$672,667.9	\$682,878.0
Bridges	\$35,590.1	\$36,010.0	\$36,893.6	\$37,396.9	\$39,087.1	\$47,520.4	\$70,901.7	\$71,427.5	\$71,435.5	\$73,574.2	\$73,574.2
Parks	\$280,541.1	\$281,261.5	\$287,491.6	\$293,609.1	\$295,329.9	\$299,065.3	\$300,201.9	\$303,965.5	\$310,246.7	\$315,710.6	\$321,359.0
Sports Fields	\$150,249.2	\$150,804.6	\$150,315.9	\$155,425.0	\$156,157.1	\$164,032.0	\$167,222.6	\$171,714.4	\$173,367.6	\$175,582.2	\$177,801.0
Outdoor Rec	\$95,649.1	\$95,843.1	\$99,113.5	\$98,686.4	\$99,290.1	\$102,267.8	\$104,367.3	\$105,629.0	\$106,686.7	\$107,800.8	\$110,143.9

SERVICE LEVEL (\$/capita)

Average Service

Outdoor Rec \$317.0 \$312.2 \$317.3 \$310.6 \$307.1 \$310.9 \$312.5 \$311.6 \$310.0 \$308.6 \$310.6 \$311.6 Sports Fields \$498.0 \$491.3 \$481.3 \$489.4 \$483.0 \$498.6 \$500.6 \$503.8 \$502.7 \$501.4 \$495.9 Parks \$929.8 \$916.2 \$920.5 \$923.9 \$913.4 \$909.1 \$899.0 \$896.7 \$901.6 \$903.8 \$906.3 \$909.2	Total (\$/capita)	\$1.862.8	\$1.837.0	\$1.837.2	\$1.841.3	\$1.824.4	\$1.863.1	\$1.924.6	\$1.925.6	\$1.923.0	\$1.925.7	\$1.925.8	\$1.882.77
Outdoor Rec \$\$317.0 \$\$312.2 \$\$317.3 \$\$310.6 \$\$307.1 \$\$310.9 \$\$312.5 \$\$311.6 \$\$310.0 \$\$308.6 \$\$310.6 \$\$311.1 Sports Fields \$\$498.0 \$\$491.3 \$\$481.3 \$\$489.1 \$\$488.0 \$\$500.8 \$\$500.6 \$\$503.8 \$\$502.7 \$\$501.4 \$\$495.0	Bridges	\$118.0	\$117.3	\$118.1	\$117.7	\$120.9	\$144.5	\$212.3	\$210.7	\$207.6	\$210.6	\$207.5	\$166.72
Outdoor Rec \$317.0 \$312.2 \$317.3 \$310.6 \$307.1 \$310.9 \$312.5 \$311.6 \$310.0 \$308.6 \$310.6 \$311.6	Parks	\$929.8	\$916.2	\$920.5	\$923.9	\$913.4	\$909.1	\$899.0	\$896.7	\$901.6	\$903.8	\$906.3	\$909.05
	Sports Fields	\$498.0	\$491.3	\$481.3	\$489.1	\$483.0	\$498.6	\$500.8	\$506.6	\$503.8	\$502.7	\$501.4	\$495.85
	Outdoor Rec	\$317.0	\$312.2	\$317.3	\$310.6	\$307.1	\$310.9	\$312.5	\$311.6	\$310.0	\$308.6	\$310.6	\$311.15
													Level

CITY OF MARKHAM

CALCULATION OF MAXIMUM ALLOWABLE

PARK DEVELOPMENT & FACILITIES

10-Year Funding Envelope Calculation	
10 Year Average Service Level 2012 - 2021	\$1,882.77
Net Population Growth 2022 - 2031	90,071
Maximum Allowable Funding Envelope	\$169,582,317



			Gross	Gra	ants/	Net	Ine	ligible Costs	I	Total				DC E	ligible	e Costs		
Project Descript	tion	Timing	Project	Subsidi	ies/Other	Municipal		eplacement	(DC Eligible		Prior	A	vailable		2022-	C	Other Dev.
			Cost	Reco	overies	Cost	&	BTE Shares		Costs	(Growth	DC	Reserves		2031	Re	elated Costs
5.0 PARK DEVELOP	MENT & FACILITIES																	
5.1 Basketb	all - Full Court																	
5.1.1	Markham Centre-Rougeside Promenade Parks	2022	\$ 81,102	\$	-	\$ 81,102	0%	\$ -	\$	81,102	\$	-	\$		\$	-	\$	-
5.1.2	Berczy Glen Community Park	2024	\$ 81,102	\$	-	\$ 81,102	0%	\$ -	\$	81,102	\$	-	\$	81,102	\$	-	\$	-
5.1.3	Langstaff - Pomona Creek Park	2024	\$ 81,102	\$	-	\$ 81,102	0%	\$ -	\$	81,102	\$	-	\$	81,102	\$	-	\$	-
5.1.4	Leitchcroft Community Park Block 49	2024	\$ 81,102	\$	-	\$ 81,102	0%	\$ -	\$	81,102	\$	-	\$	81,102	\$	-	\$	-
5.1.5	Robinson Glen Community Park	2024	\$ 162,204	\$	-	\$ 162,204	0%	\$ -	\$	162,204	\$	-	\$	162,204	\$	-	\$	-
5.1.6	York Downs East Parkette - Block 6	2024	\$ 81,102	\$	-	\$ 81,102	0%	\$ -	\$	81,102	\$	-	\$	81,102	\$	-	\$	-
5.1.7	Andre De Grasse Street East Park	2026	\$ 81,102	\$	-	\$ 81,102	0%	\$ -	\$	81,102	\$	-	\$	-	\$	-	\$	81,102
5.1.8	Markham Sports Park	2026	\$ 162,204	\$	-	\$ 162,204	0%	\$ -	\$	162,204	\$	-	\$	-	\$	-	\$	162,204
5.1.9	YMCA Park West	2026	\$ 81,102	\$	-	\$ 81,102	0%	\$ -	\$	81,102	\$	-	\$	-	\$	-	\$	81,102
5.1.10	Angus Glen Community Park South	2027	\$ 81,102	\$	-	\$ 81,102	0%	\$ -	\$	81,102	\$	-	\$	-	\$	-	\$	81,102
5.1.11	Enterprise Drive Central Park South	2027	\$ 162,204	\$	-	\$ 162,204	0%	\$ -	\$	162,204	\$	-	\$	-	\$	-	\$	162,204
5.1.12	Markham Woodside Square	2029	\$ 162,204	\$	-	\$ 162,204	0%	\$ -	\$	162,204	\$	-	\$	-	\$	-	\$	162,204
	Subtotal Basketball - Full Court		\$ 1,297,632	\$	-	\$ 1,297,632		\$-	\$	1,297,632	\$	-	\$	567,714	\$	-	\$	729,918
5.2 Basketb	all - Half Court																	
5.2.1	Green Lane Park	2022	\$ 43,670	\$	-	\$ 43,670	0%	\$ -	\$	43,670	\$	-	\$	43,670	\$	-	\$	-
5.2.2	Robinson Glen East Neighbourhood Park	2024	\$ 43,670	\$	-	\$ 43,670	0%	\$ -	\$	43,670	\$	-	\$	43,670	\$	-	\$	-
5.2.3	Rougeside Promenade North West Park	2024	\$ 43,670	\$	-	\$ 43,670	0%	\$ -	\$	43,670	\$	-	\$	43,670	\$	-	\$	-
5.2.4	South Cornell Parkette - Block 156	2024	\$ 43,670	\$	-	\$ 43,670	0%	\$ -	\$	43,670	\$	-	\$	43,670	\$	-	\$	-
5.2.5	Angus Glen East Neighbourhood Park	2025	\$ 43,670	ŝ	-	\$ 43,670	0%	\$ -	\$	43.670	ŝ	-	\$	-	\$	43.670	\$	-
5.2.6	McCowan Road Neighbourhood Park	2025	\$ 43,670	ŝ	-	\$ 43,670	0%	\$ -	\$	43,670	s	-	\$	-	\$	43,670	\$	-
5.2.7	York Downs School - Block 4	2025	\$ 43,670	ŝ	-	\$ 43,670	0%	\$ -	\$	43.670	s	-	\$	-	\$	43,670	\$	-
5.2.8	York Downs West Gateway Park - Block 20	2026	\$ 43,670	\$	-	\$ 43,670	0%	\$ -	\$	43,670	\$	-	\$	-	\$	-	\$	43,670
5.2.9	Angus Glen Central Neighbourhood Park	2027	\$ 43,670	ŝ	-	\$ 43,670	0%	\$ -	\$	43.670	ŝ	-	\$	-	\$	-	\$	43,670
5.2.10	Langstaff Gateway - Cedar Park	2027	\$ 43,670	ŝ	-	\$ 43,670	0%	\$ -	\$	43.670	s	-	\$	-	\$	-	\$	43,670
5.2.11	Unionville Home Society Parkette	2027	\$ 43,670	ŝ	-	\$ 43,670	0%	\$ -	\$	43.670	s	-	\$	-	\$	-	\$	43,670
5.2.12	Clegg Road South West Park	2029	\$ 43,670	\$	-	\$ 43,670	0%	\$ -	\$	43,670	\$	-	\$	-	\$	-	\$	43,670
	Subtotal Basketball - Half Court		\$ 524,040	\$	-	\$ 524,040		\$ -	\$	524,040	\$	-	\$	174,680	\$	131,010	\$	218,350
5.3 Basebal	l Diamond - Major																	
5.3.1	Berczy Glen Community Park	2024	\$ 748,636	\$	-	\$ 748,636	0%	s -	\$	748,636	\$	-	\$	748,636	\$	-	\$	
	Subtotal Baseball Diamond - Major		\$ 748,636	\$	-	\$ 748,636		\$ -	\$	748,636	\$	-	\$	748,636	\$	-	\$	-
5.4 Basebal	l Diamond - Major Lit																	
5.4.1	Markham Centre Baseball Complex	2028	\$ 2,495,452	\$	-	\$ 2,495,452	0%	s -	\$	2,495,452	\$	-	\$	-	\$	-	\$	2,495,452
	Subtotal Baseball Diamond - Major Lit		\$ 2,495,452	\$	-	\$ 2,495,452		\$ -	\$	2,495,452	\$	-	\$	-	\$	-	\$	2,495,452
5.5 Cricket	Pitch																	
5.5.1	Celebration Park	2022	\$ 827,574	\$	-	\$ 827,574	0%	s -	\$	827,574	\$	-	\$	827,574	\$	-	\$	-
	Subtotal Cricket Pitch		\$ 827,574	\$	-	\$ 827,574		\$ -	\$	827,574	\$	-	\$	827,574	\$	-	\$	-



			Gross		Grants/	Net	Ine	ligible Costs		Total			DC E	ligib	e Costs		
Project Descrip	tion	Timing	Project	Su	ubsidies/Other	Municipal	Re	eplacement		DC Eligible	Prior		Available		2022-	C	Other Dev.
			Cost		Recoveries	Cost	&	BTE Shares		Costs	Growth	D	C Reserves		2031	Re	elated Costs
5.6 Exercise																	
5.6.1	Markham Centre-Rougeside Promenade Parks	2022	\$ 187,160	\$	-	\$,	0%	\$ -	5		\$ -	\$	187,160	\$	-	\$	-
5.6.2	Berczy Glen North Park - Block 207	2023	\$ 93,580	\$	-	\$	0%	\$ -	-	93,580	\$ -	\$	93,580	\$	-	\$	-
5.6.3	Markham Centre - Chimenti Court Park	2023	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	-	93,580	\$ -	\$	93,580	\$	-	\$	-
5.6.4	Villages Of Fairtree East Neighbourhood Park	2023	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	-	93,580	\$ -	\$	93,580	\$	-	\$	-
5.6.5	Berczy Glen Community Park	2024	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	-	93,580	\$ -	\$	93,580	\$	-	\$	-
5.6.6	Leitchcroft Community Park Block 49	2024	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	3	93,580	\$ -	\$	93,580	\$	-	\$	-
5.6.7	Robinson Glen Community Park	2024	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	93,580	\$	-	\$	-
5.6.8	Robinson Glen East Neighbourhood Park	2024	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	93,580	\$	-	\$	-
5.6.9	Robinson Glen Northeast Neighbourhood Park	2024	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	93,580	\$	-	\$	-
5.6.10	Robinson Glen Southeast Neighbourhood Park	2024	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	93,580	\$	-	\$	-
5.6.11	Berczy Glen Southwest Neighbourhood Park	2025	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	-	\$	93,580	\$	-
5.6.12	McCowan Road Neighbourhood Park	2025	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	-	\$	93,580	\$	-
5.6.13	Rougeside Promenade West Parks	2025	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	-	\$	93,580	\$	-
5.6.14	Victoria Glen Neighbourhood Park	2025	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	-	\$	93,580	\$	-
5.6.15	York Downs School - Block 4	2025	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	-	\$	93,580	\$	-
5.6.16	Markham Centre - Aryeh Strata Park	2026	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	-	\$	-	\$	93,580
5.6.17	Markham Sports Park	2026	\$ 187,160	\$	-	\$ 187,160	0%	\$ -	5	187,160	\$ -	\$	-	\$	-	\$	187,160
5.6.18	Warden West Valley Edge Park	2026	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	-	\$	-	\$	93,58
5.6.19	York Downs West Large Lot Park - Block 21	2026	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	-	\$	-	\$	93,58
5.6.20	York Downs West Parkette - Block 24	2026	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	-	\$	-	\$	93,58
5.6.21	Angus Glen Central Neighbourhood Park	2027	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	-	\$	-	\$	93,58
5.6.22	Angus Glen Community Park South	2027	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	-	\$	-	\$	93,58
5.6.23	Angus Glen Urban Park East	2027	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	-	\$	-	\$	93,58
5.6.24	Bayview South Parkette	2027	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	-	\$	-	\$	93,58
5.6.25	Milliken Neighbourhood Park	2028	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	-	\$	-	\$	93,58
5.6.26	Markham Centre - Active Park	2029	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	-	\$	-	\$	93,58
5.6.27	Cathedral South Square	2031	\$ 93,580	\$	-	\$ 93,580	0%	\$ -	5	93,580	\$ -	\$	-	\$	-	\$	93,58
5.6.28	Cornell Centre South Neighbourhood Park	2031	\$ 93,580	\$	-	\$ 93,580	0%	5 -	3	93,580	\$ -	\$	-	\$	-	\$	93,58
	Subtotal Exercise Station		\$ 2,807,400	\$	-	\$ 2,807,400		\$ -	3	2,807,400	\$ -	\$	1,029,380	\$	467,900	\$	1,310,12
		1															



				Gross	Grants/		Net	Ine	ligible Costs		Total			DC E	ligibl	e Costs		
Project Descrip	otion	Timing		Project	Subsidies/Other	1	Municipal		eplacement		DC Eligible	Prior		Available		2022-		ther Dev.
				Cost	Recoveries		Cost	&	BTE Shares		Costs	Growth		DC Reserves		2031	Rel	ated Costs
57 Gazebr	os & Shelters - Maior																	
5.7.1	Celebration Park	2022	\$	311.932	\$ -	\$	311.932	0%	\$ -	5	\$ 311.932	s -	\$	-	\$	311.932	\$	-
5.7.4	Markham Centre-Rougeside Promenade Parks	2022	\$	623,864	\$	\$	623,864	0%	\$ -	-	. ,	\$.	\$	_	\$	623,864	¢	
5.7.2	York Downs Kennedy Road Parkette - Block 5	2022	\$	311,932	s -	\$	311.932	0%	\$ -	-		s -	\$	_	\$	311.932	\$	-
5.7.3	Berczy Glen North Park - Block 207	2023	\$	311,932	s -	\$	311.932	0%	\$ -	-		s -	ŝ	-	\$	311,932	\$	-
5.7.5	Berczy Glen Community Park	2024	\$	311,932	s -	\$	311.932	0%	\$ -	-		s -	\$	-	\$	311,932	\$	-
5.7.7	Langstaff - Pomona Creek Park	2024	\$	311,932	\$ -	\$	311,932	0%	\$ -	-	\$ 311,932	s -	\$	-	\$	311,932	\$	-
5.7.8	Langstaff - Woodlot Park	2024	\$	623,864	s -	\$	623,864	0%	\$ -	3		s -	\$	-	\$	623,864	\$	-
5.7.9	Leitchcroft Community Park Block 49	2024	\$	311.932	\$ -	\$	311.932	0%	\$ -	5	\$ 311.932	s -	\$	-	\$	311,932	\$	-
5.7.10	Leitchcroft Neighbourhood Park Block 46	2024	\$	311,932	\$ -	\$	311,932	0%	\$ -	5		\$ -	\$	-	\$	311,932	\$	-
5.7.11	Robinson Glen Community Park	2024	\$	311,932	\$ -	\$	311,932	0%	\$ -	5	\$ 311,932	\$ -	\$	-	\$	311,932	\$	-
5.7.12	Rougeside Promenade North West Park	2024	\$	311,932	\$ -	\$	311,932	0%	\$ -	5	\$ 311,932	\$ -	\$	-	\$	311,932	\$	-
5.7.6	Royal Orchard South East Parkette	2024	\$	311,932	\$ -	\$	311,932	0%	\$ -	5	\$ 311.932	\$ -	\$	-	\$	311,932	\$	-
5.7.13	South Cornell Neighourhood Park	2024	\$	311,932	\$ -	\$	311,932	0%	\$ -	5	\$ 311,932	\$ -	\$	-	\$	311,932	\$	-
5.7.14	South Cornell Parkette - Block 156	2024	\$	311,932	\$ -	\$	311,932	0%	\$ -	5	\$ 311,932	s -	\$	-	\$	311,932	\$	-
5.7.15	York Downs East Parkette - Block 6	2024	\$	311,932	\$ -	\$	311,932	0%	\$ -	5	\$ 311,932	\$ -	\$	-	\$	311,932	\$	-
5.7.16	Angus Glen East Neighbourhood Park	2025	\$	311,932	\$ -	\$	311,932	0%	\$ -	5	\$ 311,932	\$ -	\$	-	\$	311,932	\$	-
5.7.17	Carlton Park	2025	\$	311,932	\$-	\$	311,932	0%	\$ -	5	\$ 311,932	\$-	\$	-	\$	311,932	\$	-
5.7.18	Rougeside Promenade West Parks	2025	\$	311,932	\$ -	\$	311,932	0%	\$ -	5	\$ 311,932	\$ -	\$	-	\$	311,932	\$	-
5.7.19	Thornhill Centre Timber Creek Parkette	2025	\$	311,932	\$-	\$	311,932	0%	\$ -	5	\$ 311,932	\$-	\$	-	\$	311,932	\$	-
5.7.20	York Downs School - Block 4	2025	\$	311,932	\$-	\$	311,932	0%	\$ -	5	\$ 311,932	\$-	\$	-	\$	311,932	\$	-
5.7.21	Andre De Grasse Street East Park	2026	\$	311,932	\$-	\$	311,932	0%	\$ -	5	\$ 311,932	\$-	\$	-	\$	-	\$	311,932
5.7.22	King's Square	2026	\$	311,932	\$-	\$	311,932	0%	\$ -	5	\$ 311,932	\$-	\$	-	\$	-	\$	311,932
5.7.23	Markham Sports Park	2026	\$	623,864	\$ -	\$	623,864	0%	\$ -	5	\$ 623,864	\$ -	\$	-	\$	-	\$	623,864
5.7.24	Markham Square East Parkette	2026	\$	311,932	\$-	\$	311,932	0%	\$ -	5	\$ 311,932	\$ -	\$	-	\$	-	\$	311,932
5.7.25	York Downs West Gateway Park - Block 20	2026	\$	311,932	\$-	\$	311,932	0%	\$ -	5	\$ 311,932	\$ -	\$	-	\$	-	\$	311,932
5.7.26	York Downs West Large Lot Park - Block 21	2026	\$	311,932	\$-	\$	311,932	0%	\$ -	5	\$ 311,932	\$ -	\$	-	\$	-	\$	311,932
5.7.27	Angus Glen Community Park South	2027	\$	311,932	\$-	\$	311,932	0%	\$ -	5	\$ 311,932	\$ -	\$	-	\$	-	\$	311,932
5.7.28	Berczy Glen Northwest Neighbourhood Park	2027	\$	311,932	\$ -	\$	311,932	0%	\$ -	5	\$ 311,932	\$ -	\$	-	\$	-	\$	311,932
5.7.29	Enterprise Drive Central Park South	2027	\$	311,932	\$ -	\$	311,932	0%	\$ -	5	\$ 311,932	\$ -	\$	-	\$	-	\$	311,932
5.7.30	Glenbar Gardens West Park	2027	\$	311,932	s -	\$	311,932	0%	\$ -	5		\$ -	\$	-	\$	-	\$	311,932
5.7.31	Langstaff Gateway - Cedar Park	2027	\$	311,932	s -	\$	311,932	0%	\$ -	5		\$ -	\$	-	\$	-	\$	311,932
5.7.32	Langstaff Gateway - Hub Green	2027	\$	311,932	s -	\$	311,932	0%	\$ -	3		\$ -	\$	-	\$	-	\$	311,932
5.7.33	Langstaff Gateway - Promenade Park	2027	\$	311,932	\$ -	\$	311,932	0%	\$ -		\$ 311,932	5 -	\$	-	\$	-	\$	311,932
5.7.34	Cornell Centre Neighbourhood Park	2028	\$	311,932	\$ -	\$	311,932	0%	\$ -	5		\$ -	\$	-	\$	-	\$	311,932
5.7.35	Enterprise Blvd North West Park	2028	\$	311,932	\$ -	\$	311,932	0%	\$ -		\$ 311,932	\$ -	\$	-	\$	-	\$	311,932
5.7.36	Markham Centre Baseball Complex	2028	\$ \$	311,932	\$ -	\$	311,932	0% 0%	\$ - \$ -	5		\$ -	\$	-	\$	-	\$ \$	311,932
5.7.37	Markham Centre Soccer Complex	2028	-	311,932	\$ -	\$	311,932		÷		\$ 311,932	\$ -	\$	-	\$	-	-	311,932
5.7.38	Markham New World Centre	2028	\$	311,932	\$ -	\$	311,932	0%	\$ -		\$ 311,932	\$ -	\$	-	\$	-	\$	311,932
5.7.39	Yonge Dudley Park	2028 2029	\$ \$	311,932	\$ -	\$	311,932	0%	\$ - \$ -		\$ 311,932	ъ –	\$	-	¢	-	\$ \$	311,932
5.7.40 5.7.41	Markham Woodside Square First Markham Place	2029 2030	ф Я	311,932 311,932	\$ - 5 -	\$	311,932 311,932	0% 0%	s - s -		\$ 311,932 \$ 311,932	ə - s -	\$	-	ъ С	-	\$ \$	311,932 311,932
5.7.41		2030	\$		<u> </u>	э \$		070	<u> </u>	- 2	\$ 13.725.008	<u>s</u> -			9 \$	6.862.504	<u>э</u> \$	6.862.504
	Subtotal Gazebos & Shelters - Major		Э	13,725,008	ъ –	Э	13,725,008		ъ –	3	a 13,725,008	э -	\$	-	Э	0,862,504	Э	0,002,504



				Gross	Grant	s/		Net	Ine	ligible Costs		Total				DC E	ligibl	e Costs		
Project Descrip	tion	Timing		Project	Subsidies/	/Other	1	Municipal	Re	eplacement		DC Eligible		Prior		Available		2022-	Othe	er Dev.
				Cost	Recove	ries		Cost	&	BTE Shares		Costs		Growth	D	C Reserves		2031	Relat	ed Costs
5 0 . Caraba	s & Shelters - Minor																			
5.8 Gazebo	Berczy Beckett Park (Cherna Ave.)	2022	\$	81,484	\$		\$	81,484	0%	ŝ		\$ 81,484	¢		\$	81,484	\$		\$	
			э \$		о с	-	э \$		0%	s	-		9 ¢	-	э \$	81,484	э \$	-	Ф Ф	-
5.8.2 5.8.3	Berczy Glen Central Parkette - Block 291	2022 2022	э \$	81,484	э \$	-		81,484 81,484	0%	s s	-	\$ 81,484 \$ 81,484	3	-	э \$		э \$	-	¢	-
5.8.4	Berczy Glen North Parkette - Block 172 Berczy Glen Northwest Parkette - Block 170	2022	э \$	81,484 81,484	3	-	\$	81,484	0%	s s	-	\$ 81,484 \$ 81,484	3	-	э \$	81,484 81,484	э \$	-	¢	-
5.8.5	Berczy Glen West Parkette - Block 170 Berczy Glen West Parkette - Block 171	2022	э \$	81,484	3	-	э \$	81,484	0%	s s	-	\$ 81,484 \$	3	-	э \$	81,484 81,484	э \$	-	э \$	-
	-	2022	э \$		3	-	э \$		0%	s s	-		3	-	-		э \$	-	¢	-
5.8.6	Blodwen Davies Park	2022	ъ \$	81,484	3	-		81,484		s s	-	\$ 81,484	2	-	\$	81,484	-	-	\$	-
5.8.7	Green Lane Park			81,484	3	-	\$	81,484	0%	-	-	\$ 81,484	2	-	\$	81,484	\$	-	\$	-
5.8.8	Markham Centre-Rougeside Promenade Parks	2022	\$	81,484	3	-	\$	81,484	0%	\$	-	\$ 81,484	2	-	\$	81,484	\$	-	\$	-
5.8.9	Victoria Square West Village	2022	\$	81,484	5	-	\$	81,484	0%	\$	-	\$ 81,484	5	-	\$	81,484	\$	-	\$	-
5.8.10	Woodbine By-Pass North Park	2022	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	81,484	\$	-	\$	-
5.8.11	Yonge Grandview	2022	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	81,484	\$	-	\$	-
5.8.12	Berczy Glen Southeast Parkette - Block 307	2023	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	81,484	\$	-	\$	-
5.8.13	Berczy Glen Southwest Parkette Block 327	2023	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	81,484	\$	-	\$	-
5.8.14	Birchmount Drive West Park	2023	\$	81,484	S	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	81,484	\$	-	\$	-
5.8.15	Markham Centre - Chimenti Court Park	2023	\$	81,484	S	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	81,484	\$	-	\$	-
5.8.16	Villages Of Fairtree East Neighbourhood Park	2023	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	81,484	\$	-	\$	-
5.8.17	16th Avenue Parkette	2024	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	-	\$	81,484	\$	-
5.8.18	Bayview North Parkette	2024	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	-	\$	81,484	\$	-
5.8.19	Berczy Glen Community Park	2024	\$	162,968	\$	-	\$	162,968	0%	\$	-	\$ 162,968	\$	-	\$	-	\$	162,968	\$	-
5.8.20	Cornell Centre West Parkette	2024	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	-	\$	81,484	\$	-
5.8.21	East Neighbourhood Park	2024	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	-	\$	81,484	\$	-
5.8.22	Highway 7 North East Neighbourhood Park	2024	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	-	\$	81,484	\$	-
5.8.23	Innovation Park	2024	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	-	\$	81,484	\$	-
5.8.24	Langstaff - Pomona Creek Park	2024	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	-	\$	81,484	\$	-
5.8.25	Leitchcroft Community Park Block 49	2024	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	-	\$	81,484	\$	-
5.8.26	Markham Road North East Park	2024	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	-	\$	81,484	\$	-
5.8.27	Robinson Glen Central Parkette	2024	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	-	\$	81,484	\$	-
5.8.28	Robinson Glen Community Park	2024	\$	244,452	\$	-	\$	244,452	0%	\$	-	\$ 244,452	\$	-	\$	-	\$	244,452	\$	-
5.8.29	Robinson Glen Northeast Neighbourhood Park	2024	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	-	\$	81,484	\$	-
5.8.30	Robinson Glen Northwest Parkette - Block 928	2024	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	-	\$	81,484	\$	-
5.8.31	Robinson Glen Southeast Neighbourhood Park	2024	\$	325,936	\$	-	\$	325,936	0%	\$	-	\$ 325,936	\$	-	\$	-	\$	325,936	\$	-
5.8.32	Robinson Glen Southwest Parkette - Block 929	2024	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	-	\$	81,484	\$	-
5.8.33	West Neighbourhood Park	2024	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	-	\$	81,484	\$	-
5.8.34	Berczy Glen Southwest Neighbourhood Park	2025	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	-	\$	81,484	\$	-
5.8.35	Birchmount Drive East Park	2025	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	-	\$	81,484	\$	-
5.8.36	Circa Drive East Park	2025	\$	81,484	\$	-	\$	81,484	0%	\$	-	\$ 81,484	\$	-	\$	-	\$	81,484	\$	-
5.8.37	Circa Drive West Park	2025	\$	81,484	ŝ	-	\$	81,484	0%	ŝ	-	\$ 81.484	ŝ	-	\$	-	\$	81,484	\$	-
5.8.38	North Neighbourhood Park	2025	\$	81,484	s	-	\$	81,484	0%	ŝ	-	\$ 81.484	ŝ	-	\$	-	\$	81,484	\$	-
5.8.39	Rougeside Promenade West Parks	2025	\$	81,484	ŝ	-	\$	81,484	0%	ŝ	-	\$ 81,484	ŝ	-	ŝ	-	\$	81,484	\$	-
0.0.00		2020	Ť	51,104	-		Ť	01,104	0.0	-		- 01,404	Ľ		Ť		Ť	01,404	~	



				Gross	Grants/		Net	Ine	ligible Costs		Total				DC E	ligibl	e Costs		
Project Descrip	tion	Timing		Project	Subsidies/Other		Municipal		eplacement		DC Eligible		Prior		Available		2022-		ther Dev.
		_		Cost	Recoveries		Cost	&	BTE Shares		Costs		Growth	D	C Reserves		2031	Re	lated Costs
5.8.40	Sheridan Nurseries Neighbourhood Park	2025	\$	81.484	s -	\$	81.484	0%	s -	¢	81,484	s	_	\$	-	\$	81.484	\$	-
5.8.41	South Neighbourhood Park	2025	ŝ	81,484	\$ -	\$	81,484	0%	\$ -	ģ	81,484	ŝ	-	\$	-	\$	81,484	\$	-
5.8.42	Victoria Glen Neighbourhood Park	2025	\$	81,484	s -	\$	81,484	0%	\$ -	\$,	ŝ		¢		\$	81,484	\$	
5.8.43	Highway 7 North West Neighbourhood Park	2026	\$	162,968	\$ -	\$	162,968	0%	\$ -	\$	162,968	ŝ	_	\$	-	\$	-	\$	162,968
5.8.44	Kennedy Road South East Park	2026	ŝ	81,484	\$ -	\$	81,484	0%	\$ -	¢	81,484	ŝ	_	\$	-	\$	-	\$	81,484
5.8.45	Markham Centre - Aryeh Strata Park	2026	\$	81,484	\$ -	\$	81,484	0%	\$ -	¢	81,484	ŝ	_	\$	-	\$	-	\$	81,484
5.8.46	Markham Centre Neighbourhood Park	2026	\$	81,484	\$ -	\$	81,484	0%	s -	¢	81,484	ŝ	_	\$	-	\$	-	\$	81,484
5.8.47	Markham Sports Park	2026	ŝ	325,936	\$ -	\$	325,936	0%	s -	¢	325,936	ŝ	_	\$	-	ŝ	-	\$	325,936
5.8.48	Markham Square West Parkette	2026	ŝ	81,484	\$ -	\$	81,484	0%	\$ -	¢	81,484	ŝ	_	\$	-	ŝ	-	\$	81,484
5.8.49	Rougeside Promenade South West Park	2026	ŝ	81,484	\$ -	\$	81,484	0%	s -	¢	81,484	ŝ	_	\$	-	\$	-	\$	81,484
5.8.50	South Town Centre Blvd North West Park	2026	\$	81,484	\$ -	\$	81,484	0%	\$ -	¢	81,484	ŝ	_	\$	-	\$	-	ŝ	81,484
5.8.51	Unionville Market Square	2026	ŝ	81,484	\$ -	\$	81,484	0%	\$ -	¢	81,484	ŝ	_	\$	-	\$	-	ŝ	81,484
5.8.52	Warden West Valley Edge Park	2026	ŝ	81,484	\$ -	\$	81,484	0%	\$ -	¢	81,484	ŝ	_	\$	-	\$	-	\$	81,484
5.8.53	YMCA Park East	2026	ŝ	81,484	\$ -	\$	81,484	0%	s -	¢	81,484	ŝ	_	\$	-	ŝ	-	ŝ	81,484
5.8.54	YMCA Park West	2026	\$	81,484	\$ -	\$	81,484	0%	\$ -	¢	81,484	ŝ	_	\$	-	\$	-	\$	81,484
5.8.55	York Downs West Park - Block 22	2026	ŝ	81,484	\$ -	\$	81,484	0%	\$ -	¢	81,484	ŝ	_	\$	-	\$	-	ŝ	81,484
5.8.56	York Downs West Parkette - Block 23	2026	ŝ	81,484	\$ -	\$	81,484	0%	s -	¢	81,484	ŝ	_	\$	-	ŝ	-	ŝ	81,484
5.8.57	York Downs West Parkette - Block 24	2026	ŝ	81,484	\$ -	\$	81,484	0%	s -	ģ	81,484	ŝ	-	\$	-	\$	-	\$	81,484
5.8.58	Buttonville - Open Space Block North	2027	\$	81,484	\$ -	\$	81.484	0%	\$ -	¢	81,484	ŝ	_	\$	-	\$	-	\$	81,484
5.8.59	Buttonville - Open Space Block South	2027	ŝ	81,484	\$ -	\$	81,484	0%	\$ -	¢	81,484	ŝ	_	\$	-	\$	-	\$	81,484
5.8.60	Enterprise Drive Central Park South	2027	ŝ	81,484	\$ -	\$	81,484	0%	\$ -	ģ	81,484	ŝ	-	\$	-	\$	-	\$	81,484
5.8.61	Langstaff - Transit Green Park	2027	\$	81,484	\$ -	\$	81,484	0%	\$ -	\$		ŝ	-	\$	-	\$	-	\$	81,484
5.8.62	Langstaff Gateway - Hub Green	2027	\$	162,968	\$ -	\$	162,968	0%	\$ -	¢	162,968	ŝ	_	\$	-	\$	-	\$	162,968
5.8.63	Langstaff Gateway - Linear Park East	2027	\$	244,452	\$ -	\$	244,452	0%	\$ -	\$	244,452	ŝ	-	\$	-	\$	-	\$	244,452
5.8.64	Langstaff Gateway - Linear Park West	2027	\$	244,452	\$ -	\$	244,452	0%	\$ -	\$	244,452	ŝ	-	\$	-	\$	-	\$	244,452
5.8.65	Markham Centre - East Central Parkette	2027	\$	81,484	\$ -	\$	81,484	0%	\$ -	\$	81,484	ŝ	-	\$	-	\$	-	\$	81.484
5.8.66	Unionville Home Society Parkette	2027	\$	81,484	\$ -	\$	81,484	0%	\$ -	\$	81.484	ŝ	-	\$	-	\$	-	\$	81.484
5.8.67	Aviva Way South Park	2028	\$	81,484	\$ -	\$	81,484	0%	\$ -	\$	81,484	ŝ	-	\$	-	\$	-	\$	81,484
5.8.68	Hilton Markham Suites	2028	\$	81,484	\$ -	\$	81,484	0%	\$ -	\$	81,484	ŝ	-	\$	-	\$	-	\$	81,484
5.8.69	Main Street Milliken NW Parkette	2028	\$	81,484	\$ -	\$	81,484	0%	\$ -	\$	81.484	ŝ	-	\$	-	\$	-	\$	81.484
5.8.70	Markham Centre Baseball Complex	2028	\$	325,936	\$ -	\$	325,936	0%	\$ -	\$	325,936	ŝ	-	\$	-	\$	-	\$	325,936
5.8.71	Markham Centre Soccer Complex	2028	\$	325,936	\$ -	\$	325,936	0%	\$ -	\$	325,936	ŝ	-	\$	-	\$	-	\$	325,936
5.8.72	Markham Village Town Square	2028	\$	81,484	\$ -	\$	81,484	0%	\$ -	\$	81,484	\$	-	\$	-	\$	-	\$	81,484
5.8.73	Milliken Main Street South East Park	2028	\$	81,484	\$ -	\$	81,484	0%	\$ -	\$	81,484	\$	-	\$	-	\$	-	\$	81,484
5.8.74	Milliken Neighbourhood Park	2028	\$	81,484	\$ -	\$	81,484	0%	\$ -	\$	81,484	ŝ	-	\$	-	\$	-	\$	81,484
5.8.75	Clegg Road South West Park	2029	\$	162,968	\$ -	\$	162,968	0%	\$ -	\$	162,968	\$	-	\$	-	\$	-	\$	162,968
5.8.76	Kennedy Commons	2029	\$	81,484	\$ -	\$	81,484	0%	\$ -	\$	81,484	\$	-	\$	-	\$	-	\$	81,484
5.8.77	Henderson Clark Parkette	2030	\$	81,484	\$ -	\$	81,484	0%	\$ -	\$	81,484	\$	-	\$	-	\$	-	\$	81,484
5.8.78	Markham Town Square	2030	\$	81,484	\$ -	\$	81,484	0%	\$ -	\$	81,484	ŝ	-	\$	-	\$	-	\$	81,484
5.8.79	Cornell Centre South Neighbourhood Park	2031	\$	81,484	\$ -	\$	81,484	0%	\$ -	9	81,484	s	-	\$	-	\$	-	\$	81,484
	Subtotal Gazebos & Shelters - Minor		\$	8,229,884	\$ -	\$	8,229,884		\$ -	\$	8,229,884	\$	-	\$	1,303,744	\$	2,607,488	\$	4,318,652
		1	L.	-,,501		Γ.	-,,-01		1	L.	-,,501	-		L.	-,,	1 Ť	_,,100		.,===,502



				Gross	Grants/		Net	Ine	ligible Costs	Total				DC E	ligible	e Costs		
Project Descrip	otion	Timing		Project	Subsidies/Other		Municipal	Re	eplacement	DC Eligible		Prior		Available		2022-	0	ther Dev.
				Cost	Recoveries		Cost	&	BTE Shares	Costs		Growth	D	C Reserves		2031	Rel	lated Costs
50 Hard Su	urface - Plaza																	
5.9.1	Celebration Park	2022	\$	89,400	s -	\$	89,400	0%	s -	\$ 89.400	¢		\$	89,400	\$		\$	
5.9.2	Markham Centre-Rougeside Promenade Parks	2022	\$	74,500	\$ -	\$	74,500	0%	s -	\$ 74.500	é		¢	74,500	¢		\$	_
5.9.3	Victoria Square West Village	2022	\$	14,900	s -	\$		0%	s -	\$ 14,900	ŝ		¢ ¢	14,900	\$		\$	
5.9.4	Woodbine By-Pass North Park	2022	\$	34,300	\$ -	\$	34,300	0%	s -	\$ 34,300	ŝ		¢	34,300	\$		9 \$	
5.9.5	York Downs Kennedy Road Parkette - Block 5	2022	\$	22,350	\$ -	\$,	0%	s -	\$ 22,350	ŝ		¢	22,350	\$		9 \$	
5.9.6	Markham Centre - Chimenti Court Park	2023	\$	22,350	\$ -	\$	22,350	0%	s -	\$ 22,350	ŝ		\$	22,350	¢		\$	
5.9.7	Cathedral Town Parkette	2023	\$	17.880	s -	\$		0%	s -	\$ 17,880	ŝ		¢	22,330	\$	17.880	\$	
5.9.8	Innovation Park	2024	\$	23,840	s -	\$	23,840	0%	s -	\$ 23,840	ŝ		¢		\$	23,840	\$	
5.9.9	Leitchcroft Community Park Block 49	2024	\$	11.340	s -	\$		0%	s -	\$ 11,340	ŝ	_	ŝ	_	\$	11,340	\$	-
5.9.10	South Cornell Neighourhood Park	2024	\$	22,350	\$ -	\$	22,350	0%	s -	\$ 22,350	ŝ		\$		¢	22,350	\$	
5.9.11	Unionville Central Square	2024	\$	4,470	s -	\$	4,470	0%	s -	\$ 4,470	ŝ		¢		\$	4,470	\$	
5.9.12	Thornhill Centre Timber Creek Parkette	2024	\$	14,900	s -	\$	14,900	0%	s -	\$ 14,900	ŝ		¢		\$	14,900	\$	
5.9.13	Markham Centre - Aryeh Strata Park	2026	\$	47,680	s -	\$		0%	s -	\$ 47,680	ŝ		¢		\$	14,500	\$	47.680
5.9.14	Markham Sports Park	2026	\$	333.611	s -	\$	333.611	0%	s -	\$ 333.611	ŝ		\$		¢		\$	333.61
5.9.15	Shops On Steeles	2026	\$	37,250	s -	\$,	0%	s -	\$ 37,250	ŝ		¢ ¢		\$		\$	37,25
5.9.16	South Town Centre Blvd North West Park	2026	\$	59,600	\$ -	\$	59,600	0%	s -	\$ 59,600	ŝ		¢ ¢		¢		\$	59,60
5.9.17	Unionville Market Square	2026	\$	14,900	s -	\$		0%	s -	\$ 14,900	ŝ		¢ ¢		\$		\$	14,90
5.9.18	York Downs West Gateway Park - Block 20	2026	\$	22,350	\$ -	\$	22,350	0%	s -	\$ 22,350	ŝ		\$		¢		\$	22,35
5.9.19	Angus Glen Urban Park East	2020	\$	17,000	\$ -	\$,	0%	s -	\$ 17.000	ŝ		¢ ¢		\$		\$	17,00
5.9.20	Bayview South Parkette	2027	\$	11,175	s -	\$	11,175	0%	s -	\$ 11,175	ŝ		¢		¢		\$	11,17
5.9.21	Buttonville - Open Space Block South	2027	\$	14,900	s -	\$		0%	s -	\$ 14,900	ŝ		¢		¢		\$	14,90
5.9.22	Langstaff - Transit Green Park	2027	\$	34,000	\$ -	\$	34.000	0%	s -	\$ 34,000	ŝ		\$		¢		\$	34,00
5.9.23	Markham New World Centre	2028	\$	59,600	s -	\$	59,600	0%	s -	\$ 59,600	ŝ		¢		\$		\$	59,60
5.9.24	Markham Village Town Square	2028	\$	34,000	s -	\$	34,000	0%	s -	\$ 34,000	ŝ		¢		¢		\$	34,00
5.9.25	Unionville Gardens - Cenotaph Square	2028	\$	8,500	s -	\$	8,500	0%	s -	\$ 8,500	ŝ	_	ŝ	_	\$	-	\$	8,50
5.9.26	Yonge Dudley Park	2028	\$	54,400	s -	\$	54,400	0%	s -	\$ 54,400	ŝ		¢		¢		\$	54,40
5.9.27	Cathedral North Parkette	2020	\$	14,900	s -	\$	14,900	0%	s -	\$ 14,900	ŝ		¢		\$		\$	14,90
5.9.28	Henderson Clark Parkette	2020	\$	5,960	s -	\$	5,960	0%	s -	\$ 5.960	ŝ	_	ŝ	_	\$	-	\$	5.96
5.9.29	Markham Centre/Unionville Parkette	2030	\$	25,500	\$ -	\$	25,500	0%	s -	\$ 25,500	ŝ	_	ŝ	_	ŝ	-	\$	25,50
5.9.30	Milliken - Market Village	2030	ŝ	14,900	s -	\$	14,900	0%	s -	\$ 14,900	ŝ		¢		¢		\$	14,90
5.9.31	Cathedral Centre Square	2030	\$	11,175	\$ -	\$	11,175	0%	s -	\$ 11.175	ŝ	-	\$	_	\$	-	\$	14,50
5.9.32	Cornell Centre South Neighbourhood Park	2031	\$	11,1/5	5 -	\$	11,1/5	0%	5 -	\$ 11,175	5	-	\$	-	\$	-	\$	11,1/
	Subtotal Hard Surface - Plaza		\$	1,185,156	\$-	\$	1,185,156		\$ -	\$ 1,185,156	\$	-	\$	257,800	\$	94,780	\$	832,57
5.10 Multipu	Irpose Court																	
5.10.1	Franklin Carmichael Park - Multi-Purpose Court	2022	\$	87,239	\$ -	\$	87,239	0%	\$ -	\$ 87,239	\$	-	\$	87,239	\$	-	\$	-
5.10.2	Villages Of Fairtree East Neighbourhood Park	2023	\$	87,239	\$ -	\$	87,239	0%	\$ -	\$ 87,239	\$	-	\$	87,239	\$	-	\$	-
5.10.3	Berczy Glen Community Park	2024	\$	87,239	\$ -	\$	87,239	0%	\$ -	\$ 87,239	\$	-	\$	-	\$	87,239	\$	-
5.10.4	Robinson Glen Central Neighbourhood Park	2024	\$	87,239	\$ -	\$	87,239	0%	\$ -	\$ 87,239	\$	-	\$	-	\$	87,239	\$	-
5.10.5	Robinson Glen Community Park	2024	\$	87,239	\$ -	\$	87,239	0%	\$ -	\$ 87,239	\$	-	\$	-	\$	87,239	\$	-
5.10.6	York Downs West Gateway Park - Block 20	2026	\$	87,239	\$ -	\$	87,239	0%	\$ -	\$ 87,239	ŝ	-	\$	-	\$	-	\$	87,23
5.10.7	Angus Glen Community Park South	2027	\$	87,239	s -	\$	87,239	0%	\$ -	\$ 87,239	s	-	\$	-	\$	-	\$	87,23
	Subtotal Multipurpose Court		\$	610,673	\$ -	\$	610,673		\$ -	\$ 610,673	\$	-	\$	174,478	\$	261,717	\$	174,473
		1	1	,510		Ē			l .		-		1 Ť	2, 0	Ē	, * - *	Ŧ	



Project Description				Gross	Grants/		Net	Ineligible Costs			Total		DC Eligible Costs							
		Timing	Project		Subsidies/Other		Municipal	Replacement			DC Eligible		Prior Available				2022-		Other Dev.	
				Cost	Recoverie	s	Cost	&	BTE S	hares		Costs		Growth	D	C Reserves		2031	Re	lated Costs
544 D I	La trate :																			
5.11 Parking L 5.11.1	Celebration Park	2022	¢	89.840	¢		\$ 89.840	0%	s		\$	89.840	~		\$	89,840	\$		\$	
			Ð	,	3					-	3			-	· ·	69,640	-	-	-	-
5.11.2	Robinson Glen Community Park	2024	\$	67,380	3		\$ 67,380	0%	\$	-	\$	67,380	\$	-	\$	-	\$	67,380	\$	-
5.11.3 5.11.4	Carlton Park Markham Sports Park	2025 2026	\$	67,380 269,520	5		\$ 67,380 \$ 269,520	0% 0%	\$	-	\$	67,380 269,520	\$	-	\$		\$	67,380	\$ 5	- 269,520
5.11.4		2020	ф ф		3			0 /0	\$		-		-		<u>Ф</u>		<u>م</u>	-	- <u>-</u>	
	Subtotal Parking Lot - Lighting		\$	494,120	5	-	\$ 494,120		\$	-	\$	494,120	\$	-	\$	89,840	\$	134,760	\$	269,520
5.12 Parking L	Lot - Maior																			
5.12.1	Celebration Park	2022	\$	625.000	\$		\$ 625,000	0%	ŝ	-	\$	625,000	ŝ	-	\$	625.000	\$	-	\$	-
5.12.2	Berczy Glen Community Park	2024	\$	625,000	\$		\$ 625,000	0%	\$	-	\$	625,000	ŝ	-	\$	-	\$	625,000	\$	-
5.12.3	Robinson Glen Community Park	2024	\$	625,000	\$		\$ 625,000	0%	ŝ		\$	625,000	ŝ	-	\$	-	\$	625,000	\$	-
5,12,4	Carlton Park	2025	\$	625.000	\$		\$ 625,000	0%	ŝ		\$	625,000	ŝ	-	\$	-	ŝ	625,000	\$	-
5.12.5	Markham Sports Park	2026	\$	2,500,000	\$		\$ 2,500,000	0%	ŝ		\$	2,500,000	ŝ	-	\$	-	ŝ	2,500,000	\$	-
5.12.6	Markham Centre Baseball Complex	2028	\$	625.000	\$		\$ 625,000	0%	ŝ		\$	625,000	ŝ	-	\$	-	ŝ		\$	625,000
5.12.7	Markham Centre Soccer Complex	2028	\$	625,000	\$		\$ 625,000	0%	\$	-	\$	625,000	\$	-	\$	-	\$	-	\$	625,000
	Subtotal Parking Lot - Major		\$	6,250,000	\$	-	\$ 6,250,000		\$	-	\$	6,250,000	\$	-	\$	625,000	\$	4,375,000	\$	1,250,000
540 D II																				
5.13 Parking L				407 500								107 500								
5.13.1	Celebration Park	2022	\$	187,500	\$		\$ 187,500	0%	\$	-	\$	187,500	s	-	\$	187,500	\$	-	\$	-
5.13.2	Off Leash Dog Area - Paddock Park	2022	\$	75,000	\$		\$ 75,000	0%	\$	-	\$	75,000	\$	-	\$	75,000	\$	-	\$	-
5.13.3	Ward 2 Off Leash Dog Park	2023	\$	75,000	\$		\$ 75,000	0%	\$	-	\$	75,000	\$	-	\$	75,000	\$	-	\$	-
5.13.4	Ward 3 Off Leash Dog Park	2023	\$	75,000	\$		\$ 75,000	0%	\$	-	\$	75,000	\$	-	\$	75,000	\$	-	\$	-
5.13.5	Ward 4 Off Leash Dog Park	2023	\$	75,000	\$		\$ 75,000	0%	\$	-	\$	75,000	s	-	\$	75,000	\$	-	\$	-
5.13.6	Ward 5 Off Leash Dog Park	2023	\$	75,000	S ·		\$ 75,000	0%	\$	-	\$	75,000	\$	-	\$	75,000	\$	-	\$	-
5.13.7	Ward 6 Off Leash Dog Park	2023	\$	75,000	\$		\$ 75,000	0%	\$	-	\$	75,000	\$	-	\$	75,000	\$	-	\$	-
5.13.8	Ward 7 Off Leash Dog Park	2023	\$	75,000	\$	-	\$ 75,000	0%	\$	-	\$	75,000	\$	-	\$	75,000	\$	-	\$	-
5.13.9	Ward 8 Off Leash Dog Park	2023	\$	75,000	\$	-	\$ 75,000	0%	\$	-	\$	75,000	s	-	\$	75,000	\$		\$	-
5.13.10	Langstaff - Pomona Creek Park York Downs School - Block 4	2024	\$	187,500	\$		\$ 187,500	0% 0%	\$	-	\$	187,500	\$	-	\$		\$	187,500	\$	-
5.13.11		2025	\$	187,500	3		\$ 187,500	0%	_		3	187,500	3		<u>Ф</u>		3	187,500	<u>م</u>	
	Subtotal Parking Lot - Minor		\$	1,162,500	5		\$ 1,162,500		\$	-	\$	1,162,500	\$	-	\$	787,500	\$	375,000	\$	-
5.14 Pedestria	an Lighting																			
5.14.1	Berczy Glen Community Park	2024	\$	243,300	\$	-	\$ 243,300	0%	\$	-	\$	243,300	\$	-	\$	-	\$	243,300	\$	-
5.14.2	Robinson Glen Community Park	2024	\$	81,100	\$		\$ 81,100	0%	\$	-	\$	81,100	\$	-	\$	-	\$	81,100	\$	-
5.14.3	Unionville Central Square	2024	\$	24,330	\$	-	\$ 24,330	0%	\$	-	\$	24,330	\$	-	\$	-	\$	24,330	\$	-
5.14.4	Carlton Park	2025	\$	81,100	\$		\$ 81,100	0%	ŝ	-	\$	81,100	\$	-	\$	-	\$	81,100	\$	-
5.14.5	Angus Glen Community Park South	2027	\$	121,650	\$	-	\$ 121,650	0%	\$	-	\$	121,650	\$	-	\$	-	\$	-	\$	121,650
	Subtotal Pedestrian Lighting		\$	551,480	\$	-	\$ 551,480		\$	-	\$	551,480	\$	-	\$	-	\$	429,830	\$	121,650
																		-		



				Gross	Gra	nts/		Net	Ine	ligible	Costs		Total				DC E	ligible	e Costs		
Project Descript	ion	Timing		Project	Subsidi	es/Other	1	Municipal	Re	eplace	ment		DC Eligible		Prior		Available		2022-	C	Other Dev.
				Cost	Reco	veries		Cost	&	BTE S	hares		Costs	-	Growth	D	OC Reserves		2031	Re	lated Costs
5.15 Playgrou	Berczy Beckett Park (Cherna Ave.)	2022	¢	187.159	~		¢	187.159	0%	~		\$	187.159	~		¢	187,159	¢		¢	
5.15.1			\$,	2	-	\$,		3	-	-	,	3	-	\$,	\$ \$	-	\$	-
5.15.2	York Downs Kennedy Road Parkette - Block 5	2022	\$	187,159	5	-	\$	187,159	0%	\$	-	\$	187,159	\$	-	\$	187,159	-	-	\$	-
5.15.3	Markham Centre - Chimenti Court Park	2023	\$	187,159	5	-	\$	187,159	0%	\$	-	\$	187,159	\$	-	\$	187,159	\$	-	\$	-
5.15.4	Bayview North Parkette	2024	\$	187,159	5	-	\$	187,159	0%	\$	-	\$	187,159	\$	-	\$	-	\$	187,159	\$	-
5.15.5	Cornell Centre East Parkette	2024	\$	187,159	5	-	\$	187,159	0%	\$	-	\$	187,159	\$	-	\$	-	\$	187,159	\$	-
5.15.6	Robinson Glen Northeast Neighbourhood Park	2024	\$	187,159	S	-	\$	187,159	0%	\$	-	\$	187,159	s	-	\$	-	\$	187,159	\$	-
5.15.7	Angus Glen East Neighbourhood Park	2025	\$	187,159	S	-	\$	187,159	0%	\$	-	\$	187,159	s	-	\$	-	\$	187,159	\$	
5.15.8	King's Square	2026	\$	187,159	S	-	\$	187,159	0%	\$	-	\$	187,159	s	-	\$	-	\$	-	\$	187,159
5.15.9	Markham Centre - Aryeh Strata Park	2026	\$	187,159	S	-	\$	187,159	0%	\$	-	\$	187,159	\$	-	\$	-	\$	-	\$	187,159
5.15.10	York Downs West Gateway Park - Block 20	2026	\$	187,159	S	-	\$	187,159	0%	\$	-	\$	187,159	\$	-	\$	-	\$	-	\$	187,159
5.15.11	Berczy Glen Northwest Neighbourhood Park	2027	\$	187,159	S	-	\$	187,159	0%	\$	-	\$	187,159	\$	-	\$	-	\$	-	\$	187,159
5.15.12	Buttonville - Open Space Block South	2027	\$	187,159	S	-	\$	187,159	0%	\$	-	\$	187,159	\$	-	\$	-	\$	-	\$	187,159
5.15.13	Markham Centre - East Central Parkette	2027	\$	187,159	s	-	\$	187,159	0%	\$	-	\$	187,159	\$	-	\$	-	\$	-	\$	187,159
5.15.14	Milliken Main Street South East Park	2028	\$	187,159	\$	-	\$	187,159	0%	\$	-	\$	187,159	\$	-	\$	-	\$	-	\$	187,159
5.15.15	Milliken Neighbourhood Park	2028	\$	187,159	\$	-	\$	187,159	0%	\$	-	\$	187,159	\$	-	\$	-	\$	-	\$	187,159
5.15.16	Yonge Dudley Park	2028	\$	187,159	\$	-	\$	187,159	0%	\$	-	\$	187,159	\$	-	\$	-	\$	-	\$	187,159
5.15.17	Cathedral Centre Square	2031	\$	187,159	\$	-	\$	187,159	0%	\$	-	\$	187,159	\$	-	\$	-	\$	-	\$	187,159
	Subtotal Playground - Junior		\$	3,181,703	\$	-	\$	3,181,703		\$	-	\$	3,181,703	\$	-	\$	561,477	\$	748,636	\$	1,871,590
5.16 Playgrou	und - Senior																				
5.16.1	Green Lane Park	2022	\$	249,545	s	-	\$	249,545	0%	\$	-	\$	249,545	ŝ	-	\$	249,545	\$	-	\$	-
5.16.2	York Downs Kennedy Road Parkette - Block 5	2022	\$	249,545	s	-	\$	249,545	0%	\$	-	\$	249,545	\$	-	\$	249,545	\$	-	\$	-
5.16.3	Markham Centre - Chimenti Court Park	2023	\$	249,545	s	-	\$	249,545	0%	ŝ	-	\$	249,545	ŝ	-	\$	249,545	\$	-	\$	-
5.16.4	Cornell Centre East Parkette	2024	\$	249,545	s	-	\$	249,545	0%	ŝ	-	\$	249,545	ŝ	-	\$		\$	249,545	\$	-
5.16.5	Robinson Glen Northeast Neighbourhood Park	2024	\$	249,545	s	-	\$	249,545	0%	ŝ	-	\$	249,545	ŝ	-	\$	-	\$	249,545	\$	-
5.16.6	Angus Glen East Neighbourhood Park	2025	\$	249,545	s	-	\$	249,545	0%	ŝ	-	\$	249,545	ŝ	_	\$	-	\$	249,545	\$	-
5.16.7	King's Square	2026	ŝ	249,545	ŝ	-	\$	249,545	0%	ŝ	-	\$	249,545	ŝ	_	\$	-	ŝ	-	ŝ	249,545
5.16.8	Markham Centre - Arveh Strata Park	2026	\$	249,545	s	-	\$	249,545	0%	ŝ	-	\$	249,545	ŝ	-	\$	-	\$	-	\$	249,545
5.16.9	York Downs West Gateway Park - Block 20	2026	\$	249,545	s	-	\$	249,545	0%	ŝ	-	\$	249,545	ŝ	-	\$	-	\$	-	\$	249,545
5.16.10	Berczy Glen Northwest Neighbourhood Park	2027	\$	249,545	s	-	\$	249,545	0%	ŝ	-	\$	249,545	ŝ	_	\$	-	\$	-	\$	249,545
5.16.11	Buttonville - Open Space Block South	2027	ŝ	249,545	ŝ	-	\$	249,545	0%	ŝ	-	\$	249,545	ŝ	_	\$	-	ŝ	-	ŝ	249,545
5.16.12	Markham Centre - East Central Parkette	2027	ŝ	249,545	ŝ	-	\$	249,545	0%	ŝ	-	\$	249,545	ŝ	_	\$	-	ŝ	-	ŝ	249,545
5.16.13	Milliken Main Street South East Park	2028	\$	249,545	s	-	\$	249,545	0%	ŝ	-	ŝ	249,545	ŝ	-	ŝ	-	ŝ	-	\$	249,545
5.16.14	Milliken Neighbourhood Park	2028	ŝ	249,545	s	-	\$	249,545	0%	ŝ	-	ŝ	249,545	ŝ	_	\$	-	\$	-	\$	249,545
5.16.15	Yonge Dudley Park	2028	\$	249,545	s	-	\$	249,545	0%	ş	-	\$	249,545	ŝ	-	\$	-	\$	-	\$	249,545
	Subtotal Playground - Senior		\$	3,743,175	\$	-	\$	3,743,175		\$	-	\$	3.743.175	ŝ	-	\$	748.635	\$	748,635	\$	2,245,905
	Sastata Haygidana Schol	1	Ψ	5,145,115	, and a second s		Ψ	5,1+5,115		Ψ		Ŷ	5,145,115	Ű		Ψ	140,000	Ψ	140,033	Ψ	2,245,305



				Gross	G	rants/	Net	Ine	ligible Costs		Total				DC I	Eligibl	e Costs		
Project Descrip	tion	Timing		Project	Subsi	dies/Other	Municipal	Re	eplacement		DC Eligible		Prior	A	vailable		2022-	Oth	er Dev.
				Cost	Re	coveries	Cost	&	BTE Shares		Costs		Growth	DC	Reserves		2031	Relat	ed Costs
5 17 Playero	und - Junior & Senior																		
5.17.1	Berczy Glen North Parkette - Block 172	2022	\$	338.669	ŝ	-	\$ 338,669	0%	\$		\$ 338.669	\$	_	\$		\$	338.669	\$	
5.17.2	Berczy Glen West Parkette - Block 172	2022	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ	-	\$ 338,669	¢		¢		\$	338,669	¢	
5.17.3	Blodwen Davies Park	2022	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ		\$ 338,669	¢		¢		\$	338,669	\$	
5.17.4	Celebration Park	2022	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ		\$ 338,669	¢		¢		¢	338,669	¢	
5.17.5	Markham Centre-Rougeside Promenade Parks	2022	\$	677,338	ŝ	-	\$ 677,338	0%	ŝ		\$ 677.338	ŝ		¢ ¢		\$	677,338	\$	_
5.17.6	Victoria Square West Village	2022	ŝ	338,669	ŝ	-	\$ 338,669	0%	é		\$ 338,669	¢		¢	-	¢	338,669	¢	_
5.17.7	Woodbine By-Pass North Park	2022	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ		\$ 338,669	ŝ		¢		\$	338,669	¢	
5.17.8	Yonge Grandview	2022	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ		\$ 338,669	ŝ		¢		\$	338,669	¢	
5.17.9	Berczy Glen North Park - Block 207	2022	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ		\$ 338,669	ŝ		¢		\$	338,669	¢	
5.17.10	Berczy Glen Southeast Parkette - Block 307	2023	ŝ	338,669	ŝ	-	\$ 338,669	0%	ŝ		\$ 338,669	ŝ	_	¢ ¢		¢	338,669	¢	
5.17.11	Berczy Glen Southwest Parkette Block 327	2023	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ		\$ 338,669	ŝ		¢		\$	338,669	¢	
5.17.12	Villages Of Fairtree East Neighbourhood Park	2023	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ		\$ 338,669	ŝ		¢		¢	338,669	¢	
5.17.13	Berczy Glen Community Park	2024	ŝ	338,669	ŝ	-	\$ 338,669	0%	ŝ	_	\$ 338,669	ŝ	-	\$	_	\$	338,669	ŝ	
5.17.14	Cathedral Town Parkette	2024	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ	_	\$ 338,669	ŝ	-	ŝ	_	ŝ	338,669	\$	
5.17.15	Cornell Centre West Parkette	2024	ŝ	338,669	ŝ	-	\$ 338,669	0%	ŝ	-	\$ 338,669	ŝ	-	\$	_	\$	338,669	ŝ	
5.17.16	East Neighbourhood Park	2024	ŝ	338,669	ŝ	-	\$ 338,669	0%	ŝ	-	\$ 338,669	ŝ	-	\$	-	\$	338,669	\$	
5.17.17	Innovation Park	2024	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ	-	\$ 338,669	ŝ	-	\$	-	\$	338,669	\$	
5.17.18	Langstaff - Pomona Creek Park	2024	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ	-	\$ 338,669	ŝ	-	\$	_	\$	338,669	\$	
5.17.19	Langstaff - Woodlot Park	2024	ŝ	338,669	ŝ	-	\$ 338,669	0%	ŝ	-	\$ 338,669	ŝ	-	\$	-	\$	338,669	\$	
5.17.20	Leitchcroft Community Park Block 49	2024	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ	-	\$ 338,669	ŝ	-	ŝ	-	\$	338,669	ŝ	
5.17.21	Leitchcroft Neighbourhood Park Block 46	2024	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ	-	\$ 338,669	ŝ	-	ŝ	-	\$	338,669	ŝ	
5.17.22	Markham Road North East Park	2024	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ	-	\$ 338,669	ŝ	-	\$	-	\$	338,669	\$	
5.17.23	Robinson Glen Central Neighbourhood Park	2024	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ	-	\$ 338,669	ŝ	-	ŝ	-	\$	338,669	ŝ	
5.17.24	Robinson Glen Community Park	2024	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ	-	\$ 338,669	s	-	\$	-	\$	338,669	\$	
5.17.25	Robinson Glen East Neighbourhood Park	2024	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ	-	\$ 338,669	s	-	\$	-	\$	338,669	\$	
5.17.26	Robinson Glen Northwest Parkette - Block 928	2024	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ	-	\$ 338,669	ŝ	-	\$	-	\$	338,669	\$	
5.17.27	Robinson Glen Southeast Neighbourhood Park	2024	\$	338,669	ŝ	-	\$ 338,669	0%	ŝ	-	\$ 338,669	s	-	\$	-	\$	338,669	\$	
5.17.28	Rougeside Promenade North West Park	2024	\$	338,669	\$	-	\$ 338,669	0%	s	-	\$ 338,669	\$	-	\$	-	\$	338,669	\$	
5.17.29	Royal Orchard South East Parkette	2024	\$	338,669	\$	-	\$ 338,669	0%	\$	-	\$ 338,669	\$	-	\$	-	\$	338,669	\$	
5.17.30	South Cornell Neighourhood Park	2024	\$	338,669	\$	-	\$ 338,669	0%	s	-	\$ 338,669	\$	-	\$	-	\$	338,669	\$	
5.17.31	South Cornell Parkette - Block 156	2024	\$	338,669	\$	-	\$ 338,669	0%	\$	-	\$ 338,669	\$	-	\$	-	\$	338,669	\$	
5.17.32	West Neighbourhood Park	2024	\$	338,669	\$	-	\$ 338,669	0%	\$	-	\$ 338,669	\$	-	\$	-	\$	338,669	\$	
5.17.33	York Downs East Parkette - Block 6	2024	\$	338,669	\$	-	\$ 338,669	0%	\$	-	\$ 338,669	\$	-	\$	-	\$	338,669	\$	
5.17.34	Berczy Glen Southwest Neighbourhood Park	2025	\$	338,669	\$	-	\$ 338,669	0%	\$	-	\$ 338,669	\$	-	\$	-	\$	338,669	\$	
5.17.35	Carlton Park	2025	\$	338,669	\$	-	\$ 338,669	0%	\$	-	\$ 338,669	\$	-	\$	-	\$	338,669	\$	
5.17.36	Circa Drive West Park	2025	\$	338,669	\$	-	\$ 338,669	0%	\$	-	\$ 338,669	\$	-	\$	-	\$	338,669	\$	
5.17.37	McCowan Road Neighbourhood Park	2025	\$	338,669	\$	-	\$ 338,669	0%	\$	-	\$ 338,669	\$	-	\$	-	\$	338,669	\$	
5.17.38	North Neighbourhood Park	2025	\$	338,669	\$	-	\$ 338,669	0%	\$	-	\$ 338,669	\$	-	\$	-	\$	338,669	\$	
5.17.39	Rougeside Promenade West Parks	2025	\$	338,669	\$	-	\$ 338,669	0%	\$	-	\$ 338,669	\$	-	\$	-	\$	338,669	\$	



		Gro		Grants/		Net		ligible Costs		Total					Eligible	e Costs		
Project Description	Timing	Proje		Subsidies/Other		unicipal		eplacement		DC Eligible		Prior		ilable		2022-		ther Dev.
		Cos	t	Recoveries	(Cost	&	BTE Shares		Costs	G	rowth	DC Re	eserves		2031	Re	lated Costs
5.17.40 Sheridan Nurseries Neighbourhood Park	2025	\$	38,669	\$ -	\$	338,669	0%	s -	\$	338.669	¢		\$		\$	338.669	¢	
5.17.40 Sheridan Nursenes Neighbourhood Park	2025		38,669	s -	э \$	338,669	0%	s -	3		9 6	-	э \$	-	э \$	338,669	9	-
5.17.42 Thornhill Centre Timber Creek Parkette	2025		38.669	s -	\$	338,669	0%	\$ -	4		ŝ	-	\$	-	¢	338,669	\$	-
5.17.42 Thornnil Centre Timber Creek Parkette 5.17.43 Victoria Glen Neighbourhood Park	2025		38.669	s -	э \$	338,669	0%	5 - \$ -	3		э ¢	-	ъ \$	-	ф ф	338,669	э \$	-
0	2025		38.669	s -	э \$	338,669	0%	5 - \$ -	3		3 \$	-	ъ \$	-	э \$	338,669	э \$	-
	2025		38.669	s -	э S	338,669	0%	5 - S -	3		3 \$	-	э \$	-	¢	338,009	э \$	338,669
		+	,	÷	-			-	3	,	Ť	-	ъ \$	-	3	-	э \$,
5.17.46 Highway 7 North West Neighbourhood Park	2026	÷	38,669	\$ -	\$ \$	338,669	0%	\$ -		0001000	s	-	\$ \$	-	\$	-	э \$	338,669
5.17.47 Kennedy Road South East Park	2026	÷	38,669	\$ -	-	338,669	0%	\$ -	\$		2	-	Ŷ	-	\$	-	-	338,669
5.17.48 Markham Centre Neighbourhood Park	2026	+	38,669	\$ -	\$	338,669	0%	\$ -	\$		5	-	\$	-	\$	-	\$	338,669
5.17.49 Markham Sports Park	2026		77,338	\$ -	\$	677,338	0%	\$ -	\$		5	-	\$	-	\$	-	\$	677,338
5.17.50 Markham Square West Parkette	2026		38,669	\$ -	\$	338,669	0%	\$ -	\$		\$	-	\$	-	\$	-	\$	338,669
5.17.51 Rougeside Promenade South West Park	2026		38,669	\$ -	\$	338,669	0%	\$ -	\$		\$	-	\$	-	\$	-	\$	338,669
5.17.52 Warden West Valley Edge Park	2026		38,669	\$ -	\$	338,669	0%	\$ -	\$		\$	-	\$	-	\$	-	\$	338,669
5.17.53 YMCA Park East	2026		38,669	\$ -	\$	338,669	0%	\$ -	\$		\$	-	\$	-	\$	-	\$	338,669
5.17.54 YMCA Park West	2026		38,669	s -	\$	338,669	0%	\$-	\$		\$	-	\$	-	\$	-	\$	338,669
5.17.55 York Downs West Large Lot Park - Block 21	2026		38,669	s -	\$	338,669	0%	\$ -	\$		\$	-	\$	-	\$	-	\$	338,669
5.17.56 York Downs West Park - Block 22	2026		38,669	s -	\$	338,669	0%	\$ -	\$		\$	-	\$	-	\$	-	\$	338,669
5.17.57 York Downs West Parkette - Block 24	2026		38,669	s -	\$	338,669	0%	\$ -	\$		\$	-	\$	-	\$	-	\$	338,669
5.17.58 Angus Glen Central Neighbourhood Park	2027		38,669	\$-	\$	338,669	0%	\$ -	\$		\$	-	\$	-	\$	-	\$	338,669
5.17.59 Angus Glen Community Park South	2027	\$	38,669	\$ -	\$	338,669	0%	\$ -	\$	338,669	\$	-	\$	-	\$	-	\$	338,669
5.17.60 Angus Glen Urban Park East	2027	\$	38,669	\$ -	\$	338,669	0%	\$ -	\$	338,669	\$	-	\$	-	\$	-	\$	338,669
5.17.61 Bayview South Parkette	2027	\$	38,669	\$ -	\$	338,669	0%	\$ -	\$	338,669	\$	-	\$	-	\$	-	\$	338,669
5.17.62 Enterprise Drive Central Park South	2027	\$	38,669	\$ -	\$	338,669	0%	\$ -	\$	338,669	\$	-	\$	-	\$	-	\$	338,669
5.17.63 Glenbar Gardens West Park	2027	\$	38,669	\$ -	\$	338,669	0%	\$ -	\$	338,669	\$	-	\$	-	\$	-	\$	338,669
5.17.64 Langstaff Gateway - Cedar Park	2027	\$	38,669	\$ -	\$	338,669	0%	\$ -	\$	338,669	\$	-	\$	-	\$	-	\$	338,669
5.17.65 Langstaff Gateway - Hub Green	2027	\$	38,669	\$ -	\$	338,669	0%	\$ -	\$	338,669	\$	-	\$	-	\$	-	\$	338,669
5.17.66 Langstaff Gateway - Linear Park East	2027	\$	38,669	\$ -	\$	338,669	0%	\$ -	\$	338,669	\$	-	\$	-	\$	-	\$	338,669
5.17.67 Unionville Home Society Parkette	2027	\$	38,669	\$ -	\$	338,669	0%	\$ -	\$	338,669	\$	-	\$	-	\$	-	\$	338,669
5.17.68 Aviva Way South Park	2028	\$	38,669	\$ -	\$	338,669	0%	\$ -	\$	338,669	\$	-	\$	-	\$	-	\$	338,669
5.17.69 Cornell Centre Neighbourhood Park	2028	\$	38,669	\$ -	\$	338,669	0%	\$ -	\$	338,669	\$	-	\$	-	\$	-	\$	338,669
5.17.70 Enterprise Blvd North West Park	2028	\$	38,669	\$ -	\$	338,669	0%	s -	\$	338,669	\$	-	\$	-	\$	-	\$	338,669
5.17.71 Main Street Milliken NW Parkette	2028		38.669	\$ -	\$	338,669	0%	s -	\$	338,669	\$	-	\$	-	\$	-	\$	338,669
5.17.72 Markham Centre Baseball Complex	2028	\$	38,669	\$ -	\$	338,669	0%	s -	\$	338,669	\$	-	\$	-	\$	-	\$	338,669
5.17.73 Markham Centre Soccer Complex	2028	\$	38,669	\$ -	\$	338,669	0%	s -	\$	338,669	\$	-	\$	-	\$	-	\$	338,669
5.17.74 Markham New World Centre	2028	\$	38,669	\$ -	\$	338,669	0%	\$ -	\$		\$	-	\$	-	\$	-	\$	338,669
5.17.75 Clegg Road South West Park	2029		38,669	\$ -	\$	338,669	0%	\$ -	\$		\$	-	\$	-	\$	-	\$	338,669
5.17.76 Kennedy Commons	2029		38,669	\$ -	\$	338,669	0%	\$ -	\$		\$	-	\$	-	\$	-	\$	338,669
5.17.77 Markham Centre - Active Park	2029		38.669	\$ -	\$	338,669	0%	\$ -	\$		ŝ	-	\$	-	\$	-	\$	338,669
5.17.78 Markham Woodside Square	2029		38.669	\$ -	\$	338,669	0%	\$ -	\$,	ŝ	-	\$	-	\$	-	\$	338,669
5.17.79 First Markham Place	2030	÷	38.669	\$ -	\$	338,669	0%	\$ -	\$		ŝ	-	\$	-	\$	-	\$	338,669
5.17.80 Markham Town Square	2030	÷	38,669	s -	\$	338,669	0%	s -	ģ		ŝ	-	\$	-	\$	-	\$	338,669
5.17.81 Milliken - Market Village	2030	+	38.669	\$ -	\$	338,669	0%	\$ -	\$		ŝ	_	\$	-	\$	-	\$	338,669
5.17.82 Cathedral South Square	2030	+	38.669	s -	\$	338,669	0%	\$ -	4	,	ŝ	-	\$	_	\$	_	9 \$	338,669
5.17.83 Cornell Centre South Neighbourhood Park	2031		38,669	s -	Ф 5	338,669	0%	s -	9	338,669	ŝ	-	\$	-	ŝ		\$	338,669
Subtotal Playground - Junior & Senior		-	86,865	\$ -	\$ 2	28,786,865		\$ -			ŝ	-	\$	-	\$	15,240,105	\$	13,546,760
Sasterar layground summer & Sellion		÷ 20,	55,005	· -	¥ 2			÷ -	4	20,100,000	~		Ŷ		Ű	10,240,100	Ψ	10,040,100



			1	Gross		rants/	Net	Ine	ligible Costs	Т	Total					ligib	le Costs		
Project Descript	ion	Timing		Project		dies/Other	Municipal		eplacement		DC Eligible		Prior		Available		2022-		Other Dev.
				Cost	Rec	overies	Cost	&	BTE Shares		Costs		Growth	DO	C Reserves		2031	Re	elated Costs
5 18 Seatwal	I & Feature Wall																		
5.18.1	Berczy Beckett Park (Cherna Ave.)	2022	\$	48.800	ŝ	-	\$ 48,800	0%	s -	5	\$ 48.800	ŝ	_	\$	48,800	\$	-	\$	_
5.18.2	Victoria Square West Village	2022	\$	24,400	ŝ	-	\$ 24,400	0%	\$ -	-		ŝ	_	\$	24,400	\$		¢	
5.18.3	Woodbine By-Pass North Park	2022	\$	24,400	ŝ	-	\$ 24,400	0%	\$ -	-		ŝ	_	\$	24,400	\$	-	\$	_
5.18.4	Berczy Glen North Park - Block 207	2023	\$	18,300	ŝ	-	\$ 18,300	0%	\$ -	-		ŝ	_	\$	18,300	\$	-	ŝ	-
5.18.5	Berczy Glen Community Park	2024	\$	24,400	ŝ	-	\$ 24,400	0%	s -	-		ŝ	_	\$	-	\$	24,400	ŝ	-
5.18.6	Innovation Park	2024	\$	24,400	ŝ	-	\$ 24,400	0%	s -	4	\$ 24,400	ŝ	_	\$	-	\$	24,400	ŝ	_
5.18.7	Rougeside Promenade North West Park	2024	\$	24,400	ŝ		\$ 24,400	0%	\$ -	3		ŝ	-	\$	-	\$	24,400	\$	-
5.18.8	Royal Orchard South East Parkette	2024	\$	18,300	ŝ	-	\$ 18,300	0%	\$ -	5		ŝ	-	\$	-	\$	18,300	\$	-
5.18.9	Unionville Central Square	2024	\$	6,100	ŝ		\$ 6,100	0%	\$ -	3		ŝ	-	\$	-	\$	6,100	\$	-
5,18,10	Thornhill Centre Timber Creek Parkette	2025	\$	24,400	ŝ	-	\$ 24,400	0%	\$ -	5		ŝ	-	\$	-	\$	24,400	\$	-
5.18.11	Andre De Grasse Street East Park	2026	\$	24,400	ŝ	-	\$ 24,400	0%	\$ -	3		ŝ	-	\$	-	\$		\$	24,400
5.18.12	Kennedy Road South East Park	2026	\$	12,200	ŝ	-	\$ 12,200	0%	\$ -	5		ŝ	-	\$	-	\$	-	\$	12,200
5.18.13	Markham Centre - Aryeh Strata Park	2026	\$	12,200	\$	-	\$ 12,200	0%	\$ -	5		\$	-	\$	-	\$	-	\$	12,200
5.18.14	Markham Square East Parkette	2026	\$	12,200	ŝ		\$ 12,200	0%	\$ -	5		ŝ	-	\$	-	\$	-	\$	12,200
5.18.15	Rougeside Promenade South West Park	2026	\$	24,400	\$	-	\$ 24,400	0%	\$ -	5	\$ 24,400	\$	-	\$	-	\$	-	\$	24,400
5.18.16	South Town Centre Blvd North West Park	2026	\$	24,400	\$	-	\$ 24,400	0%	\$ -	5		\$	-	\$	-	\$	-	\$	24,400
5.18.17	Unionville Market Square	2026	\$	12,200	\$	-	\$ 12,200	0%	\$ -	5	\$ 12,200	\$	-	\$	-	\$	-	\$	12,200
5.18.18	Angus Glen Urban Park East	2027	\$	6,100	ŝ	-	\$ 6.100	0%	s -	5	\$ 6,100	ŝ	-	\$	-	\$	-	\$	6,100
5.18.19	Langstaff - Transit Green Park	2027	\$	61,000	\$	-	\$ 61,000	0%	\$ -	5	\$ 61,000	\$	-	\$	-	\$	-	\$	61,000
5.18.20	Aviva Way South Park	2028	\$	12,200	\$	-	\$ 12,200	0%	\$ -	5	\$ 12,200	\$	-	\$	-	\$	-	\$	12,200
5.18.21	Enterprise Blvd North West Park	2028	\$	48,800	\$	-	\$ 48,800	0%	\$ -	5	\$ 48,800	\$	-	\$	-	\$	-	\$	48,800
5.18.22	Hilton Markham Suites	2028	\$	12,200	\$	-	\$ 12,200	0%	\$ -	5	\$ 12,200	\$	-	\$	-	\$	-	\$	12,200
5.18.23	Markham New World Centre	2028	\$	12,200	\$	-	\$ 12,200	0%	\$ -	5	\$ 12,200	\$	-	\$	-	\$	-	\$	12,200
5.18.24	Markham Village Town Square	2028	\$	12,200	\$	-	\$ 12,200	0%	\$ -	5	\$ 12,200	\$	-	\$	-	\$	-	\$	12,200
5.18.25	Unionville Gardens - Cenotaph Square	2028	\$	36,600	\$	-	\$ 36,600	0%	\$ -	5	\$ 36,600	\$	-	\$	-	\$	-	\$	36,600
5.18.26	Kennedy Commons	2029	\$	12,200	\$	-	\$ 12,200	0%	\$ -	5	\$ 12,200	\$	-	\$	-	\$	-	\$	12,200
5.18.27	Henderson Clark Parkette	2030	\$	6,100	\$	-	\$ 6,100	0%	s -	5	\$ 6,100	\$	-	\$	-	\$	-	\$	6,100
	Subtotal Seatwall & Feature Wall		\$	579,500	\$	-	\$ 579,500		\$ -	43	\$ 579,500	\$	-	\$	115,900	\$	122,000	\$	341,600
5.19 Skatebo	ard Park - Maior																		
5.19.1	Enterprise Blvd North West Park	2028	\$	1,122,954	\$	-	\$ 1,122,954	0%	s -	ş	\$ 1,122,954	\$	-	\$	-	\$	-	\$	1,122,954
	Subtotal Skateboard Park - Major		\$	1,122,954	\$	-	\$ 1,122,954		\$ -	43	\$ 1,122,954	\$	-	\$	-	\$	-	\$	1,122,954
5.20 Skatebo	ard Park - Minor																		
5.20.1	Berczy Glen Community Park	2024	\$	249,545	\$	-	\$ 249,545	0%	\$ -	5	\$ 249,545	\$	-	\$	-	\$	249,545	\$	-
5.20.2	Langstaff - Pomona Creek Park	2024	\$	249,545	\$	-	\$ 249,545	0%	\$ -	3		\$	-	\$	-	\$	249,545	\$	-
5.20.3	Robinson Glen Community Park	2024	\$	249,545	\$	-	\$ 249,545	0%	\$ -	5		\$	-	\$	-	\$	249,545	\$	-
5.20.4	Berczy Glen Southwest Neighbourhood Park	2025	\$	249,545	\$	-	\$ 249,545	0%	\$ -	5		\$	-	\$	-	\$	249,545	\$	-
5.20.5	Angus Glen Community Park South	2027	\$	249,545	\$	-	\$ 249,545	0%	\$ -	5		\$	-	\$	-	\$	-	\$	249,545
5.20.6	Markham Centre Baseball Complex	2028	\$	249,545	\$	-	\$ 249,545	0%	\$ -	5	\$ 249,545	\$	-	\$	-	\$	-	\$	249,545
5.20.7	Markham Woodside Square	2029	\$	249,545	\$	-	\$ 249,545	0%	\$ -	5	\$ 249,545	\$	-	\$	-	\$	-	\$	249,545
5.20.8	Milliken - Market Village	2030	\$	249,545	\$	-	\$ 249,545	0%	\$ -	5	\$ 249,545	\$	-	\$	-	\$	-	\$	249,545
	Subtotal Skateboard Park - Minor		\$	1,996,360	\$	-	\$ 1,996,360		\$ -	4	\$ 1,996,360	\$	-	\$	-	\$	998,180	\$	998,180
					I														



			Gross	Grants/	1	Net	Ine	eligibl	e Costs	I	Total				DC E	Eligible	e Costs		
Project Description	Timing		Project	Subsidies/Othe	r	Municipal	R	Replac	ement		DC Eligible		Prior	A	Available		2022-	0	ther Dev.
			Cost	Recoveries		Cost	&	BTE	Shares		Costs		Growth	DC	Reserves		2031	Re	lated Costs
5.21 Soccer Field - Major																			
5.21 Soccer Field - Major 5.21.1 Robinson Glen Community Park	2024	\$	1.184.067	\$ -	ŝ	1.184.067	0%	ŝ		\$	1.184.067	s		\$	_	\$	1.184.067	\$	
5.22.2 York Downs School - Block 4	2024	\$	394,689	s -	\$	394,689	0%	ŝ	-	\$	394,689	ŝ		ŝ	-	ŝ	394,689	э \$	
5.22.3 Angus Glen Community Park South	2025	\$	789.378	s -	\$	789,378	0%	s	_	\$	789.378	s	_	5	-	\$	-	φ 5	789.378
Subtotal Soccer Field - Major		\$	2,368,134	\$ -	\$	2,368,134	-	\$	-	\$	2,368,134	\$	-	\$	-	\$	1.578.756	\$	789.378
		Ť	2,000,101	Ť.	Ŷ	2,000,101		Ť		Ť	2,000,101	Ŭ		Ť		Ť	10101100	Ŷ	105,010
5.22 Soccer Field - Major Lit																			
5.22.1 Robinson Glen Southeast Neighbourhood Park	2024	\$	1,497,272	\$ -	\$	1,497,272	0%	\$	-	\$	1,497,272	\$	-	\$	-	\$	1,497,272	\$	-
5.23.2 Markham Sports Park	2026	\$	5,989,088	\$ -	\$	5,989,088	0%	\$	-	\$	5,989,088	\$	-	\$	-	\$	-	\$	5,989,088
5.23.3 Markham Centre Soccer Complex	2028	\$	2,994,544	<u>s</u> -	\$	2,994,544	0%	\$	-	\$	2,994,544	\$	-	\$	-	\$	-	\$	2,994,544
Subtotal Soccer Field - Major Lit		\$	10,480,904	\$-	\$	10,480,904		\$	-	\$	10,480,904	\$	-	\$	-	\$	1,497,272	\$	8,983,632
5.23 Soccer Field - Mini Pitch																			
5.23.1 Leitchcroft Community Park Block 49	2024	s	249,546	s -	\$	249,546	0%	\$	-	s	249,546	s	-	s	-	s	249,546	\$	-
Subtotal Soccer Field - Mini Pitch		\$	249,546	\$	\$	249,546		\$		\$	249,546	\$		\$		\$	249,546	\$	
		Ŷ	245,540	9	Ψ	245,540		Ψ		Ŷ	245,540	•		Ψ		Ŷ	245,540	Ψ	
5.24 Soccer Field - Minor	2027		202 710			202 710	0.07			er.	202 710	~		r.				m	202 710
5.24.1 Berczy Glen Northwest Neighbourhood Park	2027	\$	203,710	<u> </u>	\$	203,710	0%	\$	-	\$	203,710	3	-	\$	-	\$	-	3	203,710
Subtotal Soccer Field - Minor		\$	203,710	\$ -	\$	203,710		\$	-	\$	203,710	s	-	\$	-	\$	-	\$	203,710
5.25 Splash Pad - Major																			
5.25.1 Celebration Park	2022	\$	499,091	\$ -	\$	499,091	0%	\$	-	\$	499,091	\$	-	\$	-	\$	499,091	\$	-
5.25.2 Markham Centre-Rougeside Promenade Parks	2022	\$	499,091	\$ -	\$	499,091	0%	\$	-	\$	499,091	\$	-	\$	-	\$	499,091	\$	-
5.25.3 Berczy Glen Community Park	2024	\$	499,091	\$ -	\$	499,091	0%	\$	-	\$	499,091	\$	-	\$	-	\$	499,091	\$	-
5.25.4 Cathedral Town Parkette	2024	\$	499,091	\$ -	\$	499,091	0%	\$	-	\$	499,091	\$	-	\$	-	\$	499,091	\$	-
5.25.5 Robinson Glen Community Park	2024	\$	499,091	\$ -	\$	499,091	0%	\$	-	\$	499,091	\$	-	\$	-	\$	499,091	\$	-
5.25.6 Rougeside Promenade West Parks	2025	\$	499,091	\$ -	\$	499,091	0%	\$	-	\$	499,091	\$	-	\$	-	\$	499,091	\$	-
5.25.7 Markham Sports Park	2026	\$	499,091	s -	\$	499,091	0%	\$	-	\$	499,091	s	-	\$	-	\$	499,091	\$	-
5.25.8 Angus Glen Community Park South 5.25.9 Markham Centre Soccer Complex	2027 2028	\$ \$	499,091 499,091	s -	\$ \$	499,091 499,091	0% 0%	\$	-	\$	499,091 499,091	S.	-	\$	-	\$ \$	-	\$	499,091 499,091
Subtotal Splash Pad - Major	2020	\$	4,491,819	<u> </u>	- <u>\$</u>	4,491,819	0 %	\$		э \$	499,091	9 8		э \$	-	\$	3.493.637	9 \$	998.182
		Ť	1,101,010	Ť.	Ŷ	1,151,615		Ť		Ť	1,101,010	Ŭ		Ť		Ť	0,100,001	Ŷ	000,102
5.26 Splash Pad - Minor			405.0.5			405 4													
5.26.1 Robinson Glen Southeast Neighbourhood Park	2024	\$	185,912	\$ -	\$	185,912	0%	\$	-	\$	185,912	\$	-	\$	-	\$	185,912	\$	-
5.26.2 Angus Glen East Neighbourhood Park 5.26.3 Carlton Park	2025 2025	\$ \$	185,912	\$ -	\$	185,912 185,912	0% 0%	\$ \$	-	\$	185,912 185,912	s.	-	\$ \$	-	\$ \$	185,912 185,912	\$ \$	-
	2025	\$ \$	185,912	 -	\$ \$,	0%	\$	-	\$ \$,	s.	-	\$ \$	-	\$ \$,	\$ \$	-
5.26.4 York Downs School - Block 4 5.26.5 Andre De Grasse Street East Park	2025	ъ \$	185,912 185,912	 -	э \$	185,912 185,912	0%	5	-	э \$	185,912 185,912	\$ ¢	-	¢ ¢	-	\$ \$	185,912 185,912	э \$	-
5.26.6 Berczy Glen Northwest Neighbourhood Park	2026	э \$	185,912	e	э \$	185,912	0%	э S	-	э \$	185,912	э S		э \$	-	э \$	100,912	э \$	- 185,912
5.26.7 Enterprise Drive Central Park South	2027	э \$	185,912	e -	э \$	185,912	0%	ŝ	-	э \$	185,912	s S		э S	-	э \$	-	э \$	185,912
5.26.8 First Markham Place	2027	3 5	185,912	s -	э \$	185,912	0%	s	-	э \$	185,912	3	-	э 5	-	э 5	-	\$	185,912
Subtotal Splash Pad - Minor		\$	1,487,296	\$ -	\$	1,487,296		\$	-	\$	1,487,296	\$	-	\$	-	\$	929,560	\$	557,736
	1	1						1		1				1		1			



			1	Gross	1	Grants/		Net	Ine	ligible Costs	1	Total				DC E	ligib	le Costs		
Project Descript	tion	Timing		Project	Sub	sidies/Other		Municipal		eplacement		DC Eligible		Prior	A	Available		2022-	01	ther Dev.
				Cost	R	ecoveries		Cost	&	BTE Shares		Costs		Growth	DC	C Reserves		2031	Rel	ated Costs
5 07 Tamia	Court - Double (Unlit)																			
5.27 Tennis (Blodwen Davies Park	2022	\$	93.580	¢		\$	93,580	0%	s -	\$	93.580	¢		\$	93.580	¢		¢	
5.27.2	Berczy Glen Community Park	2022	э \$	93,580	ۍ د	-	э \$	93,580	0%	s -	э \$	93,580	°	-	э \$	95,560	э \$	93.580	ф Ф	-
5.27.3	Langstaff - Pomona Creek Park	2024	э \$	93,580	3	-	э \$	93,580	0%	s -	э \$	93,580	э ¢	-	ф ф	-	э \$	93,580	¢	-
5.27.4	Leitchcroft Community Park Block 49	2024	э \$	93,580	3	-	э \$	93,580	0%	s -	э \$	93,580	э ¢	-	ф ф	-	¢	93,580	¢	-
5.27.5	Robinson Glen Community Park	2024	э \$	467,900	ۍ د	-	э \$	467,900	0%	s -	э \$	467,900	9	-	ф Ф	-	ф Ф	467,900	¢ ¢	-
5.27.6	South Cornell Neighourhood Park	2024	э \$	93.580	ۍ د	-	9 \$	93,580	0%	s -	э \$	93,580	°	-	Ф Ф	-	ф Ф	93,580	ф Ф	-
5.27.6	Angus Glen East Neighbourhood Park	2024	э \$	93,580	۵ د	-	э \$	93,580	0%	s -	ф Ф	93,580	э с	-	ф Ф	-	¢ ¢	93,580	¢ ¢	-
5.27.8	McCowan Road Neighbourhood Park	2025	э \$	93,580	ۍ د	-	9 \$	93,580	0%	s -	э \$	93,580	9	-	ф Ф	-	ф Ф	93,580	¢ ¢	-
5.27.9	Rougeside Promenade West Parks	2025	э \$	93,580	ۍ د	-	э \$	93,580	0%	s -	ф Ф	93,580	9	-	ф Ф	-	ф Ф	93,580	¢ ¢	-
5.27.10	Andre De Grasse Street East Park	2025	э \$	93,580	ۍ د	-	9 \$	93,580	0%	s -	э \$	93,580	°	-	Ф Ф	-	ф Ф	93,580	ф Ф	-
5.27.10	YMCA Park East	2026	э \$	93,580	3	-	э \$	93,580	0%	s -	э \$	93,580	э ¢	-	ф ф	-	¢	93,580	¢	-
5.27.12	York Downs West Large Lot Park - Block 21	2026	э \$	93,580	ۍ د	-	э \$	93,580	0%	s -	э \$	93,580	9	-	ф Ф	-	ф Ф	93,580	¢ ¢	-
5.27.12	Angus Glen Community Park South	2020	э \$	187,160	ۍ د	-	9 \$	187,160	0%	s -	э \$	187.160	9	-	ф Ф	-	ф Ф	93,360	э \$	187,160
5.27.14	Enterprise Drive Central Park South	2027	э \$	187,160	ۍ د	-	9 \$	187,160	0%	s -	э \$	187,160	°	-	Ф Ф	-	ф Ф	-	э \$	187,16
5.27.14	Langstaff Gateway - Cedar Park	2027	э \$	93,580	۵ د	-	э \$	93,580	0%	s -	ф Ф	93,580	э с	-	ф Ф	-	¢ ¢	-	¢ ¢	93,58
5.27.16	Yonge Dudley Park	2027	э \$	93,580	ۍ د	-	9 \$	93,580	0%	s -	э \$	93,580	9	-	ф Ф	-	ф Ф	-	э \$	93,58
5.27.10	Clegg Road South West Park	2028	э \$	93,580	ۍ د	-	9 \$	93,580	0%	s -	ф Ф	93,580	9	-	ф Ф	-	ф Ф	-	¢ ¢	93,58
5.27.18	First Markham Place	2029	э S	187,160	ş	-	9 5	187,160	0%	s -	э S	187,160	9 6	-	9	-	φ 2	-	ф Я	187,16
0127120	Subtotal Tennis Court - Double (Unlit)	2000	\$	2,433,080	\$	-	\$	2,433,080	0.0	\$ -	\$	2,433,080	\$	-	\$	93,580	\$	1,497,280	\$	842,220
5.28 Trellis -	Major																			
5.28.1	Robinson Glen Community Park	2024	\$	249,545	ŝ		\$	249,545	0%	s -	\$	249,545	ŝ		¢		¢	249,545	\$	
5.28.2	Shops On Steeles	2024	\$	249,545	ŝ	-	\$	249,545	0%	\$ -	\$	249,545	ŝ	-	\$	-	\$	249,545	\$ \$	
5.28.3	Angus Glen Community Park South	2020	5	249,545	5	_	5	249,545	0%	5 -	5	249,545	5	-	5	-	5	245,545	5	249,54
	Subtotal Trellis - Major		\$	748,635	\$	-	\$	748,635		\$ -	\$	748,635	\$	-	\$	-	\$	499,090	\$	249,54
5.29 Trellis -	Min																			
5.29 Trems -	Cathedral Town Parkette	2024	\$	108,221	ŝ		\$	108.221	0%	s -	\$	108,221	\$		¢		¢	108,221	¢	
5.29.2	Cornell Centre East Parkette	2024	э \$	108,221	ŝ	-	э \$	108,221	0%	s -	э \$	108,221	ŝ	-	φ ¢	-	¢ ¢	108,221	φ ¢	-
5.29.2	Robinson Glen Central Neighbourhood Park	2024	э \$	108,221	s	-	э \$	108,221	0%	s -	э \$	108,221	9 S		φ ¢	-	÷	108,221	φ ¢	-
5.29.3	Robinson Glen Central Neighbourhood Park Robinson Glen Community Park	2024	э \$	108,221	ŝ	-	э \$	108,221	0%	s -	э \$	108,221	ŝ		9 \$	-	Ф Ф	108,221	Ф \$	
5.29.5	Robinson Glen East Neighbourhood Park	2024	э \$	108,221	ŝ	-	э \$	108,221	0%	s -	э \$	108,221	ŝ		÷	-	Ф Ф	108,221	э \$	_
5.29.6	Angus Glen Central Neighbourhood Park	2024	э \$	108,221	ŝ	-	э \$	108,221	0%	s -	\$	108,221	ŝ		÷	-	¢.	100,221	э \$	108,22
5.29.7	Angus Glen Community Park South	2027	\$	108,221	ŝ	-	\$	108,221	0%	\$ -	\$	108,221	¢		¢		¢	_	\$	108,22
5.29.8	Bavview South Parkette	2027	э \$	108,221	ŝ	-	э \$	108,221	0%	s -	э \$	108,221	ŝ		÷	-	Ф Ф	-	э \$	108,22
5.29.9	Markham Centre - Active Park	2027	э \$	108,221	ŝ	-	э \$	108,221	0%	s -	э \$	108,221	ŝ		÷	-	¢.	-	φ ¢	108,22
5.29.10	Milliken - Market Village	2029	э \$	108,221	ŝ	-	э \$	108,221	0%	s -	э \$	108,221	ŝ		÷	-	¢.	-	э \$	108,22
5.29.11	Cathedral South Square	2030	5	108,221	s	-	5	108,221	0%	s -	5	108,221	ŝ		\$	-	\$	-	\$	108,22
	Subtotal Trellis - Minor		\$	1,190,431	\$	-	\$	1,190,431		\$ -	\$	1,190,431	\$	-	\$	-	\$	541,105	\$	649,326
			1								1						1			



			Gross		Grants/		Net	Ine	ligible Costs		Total				DC E	ligibl	e Costs		
Project Description	Timing		Project	Sub	sidies/Other		Municipal	Re	eplacement		DC Eligible		Prior	ŀ	Available		2022-	Ot	her Dev.
			Cost	R	ecoveries		Cost	&	BTE Shares		Costs		Growth	DC	C Reserves		2031	Rela	ted Costs
5 20 Welling & Detter Archelt																			
5.30 Walkway & Paths - Asphalt 5.30.1 Off Leash Dog Area - Paddock Park	2022	\$	8,700	ŝ		\$	8,700	0%	¢		8,700	~		¢	8,700	\$		¢	
0			,		-	Ф Ф			\$ -	3		3	-	\$,	-	-	Э Ф	-
5.30.2 Ward 2 Off Leash Dog Park	2023	\$ \$	8,700	\$	-	\$	8,700	0%	5 -	3	8,700	2	-	\$	8,700	\$	-	\$	-
5.30.3 Ward 3 Off Leash Dog Park	2023	-	8,700	3	-	\$	8,700	0%	\$ -	3	8,700	2	-	\$	8,700	\$	-	\$	-
5.30.4 Ward 4 Off Leash Dog Park	2023	\$	8,700	3	-	\$	8,700	0%	5 -	3	8,700	2	-	\$	8,700	\$	-	\$	-
5.30.5 Ward 5 Off Leash Dog Park	2023	\$	8,700	\$	-	5	8,700	0%	5 -	3	8,700	2	-	\$	8,700	\$	-	\$	-
5.30.6 Ward 6 Off Leash Dog Park	2023	\$	8,700	\$	-	\$	8,700	0%	s -	3	8,700	\$	-	\$	8,700	\$	-	\$	-
5.30.7 Ward 7 Off Leash Dog Park	2023	\$	8,700	\$	-	\$	8,700	0%	\$ -	3	\$ 8,700	\$	-	\$	8,700	\$	-	\$	-
5.30.8 Ward 8 Off Leash Dog Park	2023	\$	8,700	\$	-	\$	8,700	0%	s -	3	8,700	\$	-	\$	8,700	\$	-	\$	-
5.30.9 Langstaff - Pomona Creek Park	2024	\$	17,400	\$	-	\$	17,400	0%	s -	3	5 17,400	\$	-	\$	-	\$	17,400	\$	-
5.30.10 Langstaff - Woodlot Park	2024	\$	8,700	\$	-	\$	8,700	0%	s -	9	\$ 8,700	\$	-	\$	-	\$	8,700	\$	-
5.30.11 Leitchcroft Neighbourhood Park Block 46	2024	\$	48,459	\$	-	\$	48,459	0%	\$ -	3	48,459	\$	-	\$	-	\$	48,459	\$	-
5.30.12 Robinson Glen Central Neighbourhood Park	2024	\$	8,700	\$	-	\$	8,700	0%	\$ -	3	\$ 8,700	\$	-	\$	-	\$	8,700	\$	-
5.30.13 Robinson Glen Community Park	2024	\$	43,500	\$	-	\$	43,500	0%	\$ -	3	\$ 43,500	\$	-	\$	-	\$	43,500	\$	-
5.30.14 Robinson Glen Southeast Neighbourhood Park	2024	\$	17,400	\$	-	\$	17,400	0%	\$ -	\$	\$ 17,400	\$	-	\$	-	\$	17,400	\$	-
5.30.15 Angus Glen East Neighbourhood Park	2025	\$	8,700	\$	-	\$	8,700	0%	\$ -	\$	\$ 8,700	\$	-	\$	-	\$	8,700	\$	-
5.30.16 Berczy Glen Southwest Neighbourhood Park	2025	\$	8,700	\$	-	\$	8,700	0%	\$ -	\$	\$ 8,700	\$	-	\$	-	\$	8,700	\$	-
5.30.17 Carlton Park	2025	\$	8,700	\$	-	\$	8,700	0%	\$ -	\$	\$ 8,700	\$	-	\$	-	\$	8,700	\$	-
5.30.18 Rougeside Promenade West Parks	2025	\$	26,100	\$	-	\$	26,100	0%	\$ -	\$	\$ 26,100	\$	-	\$	-	\$	26,100	\$	-
5.30.19 York Downs School - Block 4	2025	\$	8,700	\$	-	\$	8,700	0%	\$ -	\$	\$ 8,700	\$	-	\$	-	\$	8,700	\$	-
5.30.20 Markham Sports Park	2026	\$	217,500	\$	-	\$	217,500	0%	\$ -	\$	\$ 217,500	\$	-	\$	-	\$	217,500	\$	-
5.30.21 Warden West Valley Edge Park	2026	\$	34,800	\$	-	\$	34,800	0%	\$ -	\$	\$ 34,800	\$	-	\$	-	\$	34,800	\$	-
5.30.22 York Downs West Gateway Park - Block 20	2026	\$	8,700	\$	-	\$	8,700	0%	\$ -	\$	\$ 8,700	\$	-	\$	-	\$	8,700	\$	-
5.30.23 York Downs West Large Lot Park - Block 21	2026	\$	8,700	\$	-	\$	8,700	0%	\$ -	\$	\$ 8,700	\$	-	\$	-	\$	8,700	\$	-
5.30.24 Berczy Glen Northwest Neighbourhood Park	2027	\$	8,700	\$	-	\$	8,700	0%	\$ -	\$	\$ 8,700	\$	-	\$	-	\$	-	\$	8,70
5.30.25 Buttonville - Open Space Block North	2027	\$	6,525	\$	-	\$	6,525	0%	\$ -	\$	6,525	\$	-	\$	-	\$	-	\$	6,52
5.30.26 Markham Centre - East Central Parkette	2027	\$	6,525	\$	-	\$	6,525	0%	\$ -	5	6,525	\$	-	\$	-	\$	-	\$	6,52
Subtotal Walkway & Paths - Asphalt		\$	566,109	\$	-	\$	566,109		\$ -	\$	566,109	\$	-	\$	69,600	\$	474,759	\$	21,75



5.31.2 B. 5.31.3 B. 5.31.4 B. 5.31.5 B. 5.31.6 B. 5.31.6 B. 5.31.7 C. 5.31.8 G. 5.31.9 M. 5.31.10 VI 5.31.11 W. 5.31.12 YI 5.31.13 YI 5.31.14 B.		Timing 2022 2022 2022 2022 2022 2022 2022 20	\$ 2 \$ 2 \$ 2 \$ 5 \$ 13 \$ 3 \$ 15	5,000 3,750 5,000 3,750 5,000 0,000 7,500 7,500	Subsidies/Other Recoveries \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 8 \$ 25 \$ 8 \$ 25 \$ 25 \$ 50	000 750 000 750 000		Stepsenent STE Shares	\$	\$ 8,750 \$ 25,000	Prior Growth \$ - \$ - \$ -	Available DC Reserves \$ 25,000 \$ 8,750 \$ 25,000 \$ 8,750	2022 203 \$ \$ \$		Relate \$ \$	er Dev. ed Costs
5.31.1 B 5.31.2 B 5.31.3 B 5.31.4 B 5.31.5 B 5.31.6 B 5.31.7 C 5.31.8 G 5.31.7 C 5.31.8 G 5.31.9 M 5.31.10 Vi 5.31.11 W 5.31.11 W 5.31.12 Y 5.31.13 Y	Berczy Beckett Park (Cherna Ave.) Berczy Glen Central Parkette - Block 291 Berczy Glen North Parkette - Block 172 Berczy Glen North Parkette - Block 170 Berczy Glen West Parkette - Block 170 Blodwen Davies Park Joldwen Davies Park Zelebration Park Aarkham Centre-Rougeside Promenade Parks //ctoria Square West Village Woodbine By-Pass North Park Gonge Grandview	2022 2022 2022 2022 2022 2022 2022 202	\$2 \$2 \$2 \$2 \$2 \$2 \$2 \$3 \$3 \$3 \$3 \$3 \$3	8,750 5,000 8,750 5,000 0,000 7,500		\$ 25 \$ 8 \$ 25 \$ 8 \$ 25 \$ 25 \$ 50	750 000 750	0% 0% 0%	\$ - \$ -	\$	\$ 25,000 \$ 8,750 \$ 25,000	\$- \$- \$-	\$ 25,000 \$ 8,750 \$ 25,000	\$\$ \$\$ \$\$		\$ \$	ed Costs
5.31.1 B 5.31.2 B 5.31.3 B 5.31.4 B 5.31.5 B 5.31.6 B 5.31.7 C 5.31.8 G 5.31.7 C 5.31.8 G 5.31.9 M 5.31.10 Vi 5.31.11 W 5.31.11 W 5.31.12 Y 5.31.13 Y	Berczy Beckett Park (Cherna Ave.) Berczy Glen Central Parkette - Block 291 Berczy Glen North Parkette - Block 172 Berczy Glen North Parkette - Block 170 Berczy Glen West Parkette - Block 170 Blodwen Davies Park Joldwen Davies Park Zelebration Park Aarkham Centre-Rougeside Promenade Parks //ctoria Square West Village Woodbine By-Pass North Park Gonge Grandview	2022 2022 2022 2022 2022 2022 2022 202	\$ 2 \$ 2 \$ 2 \$ 2 \$ 5 \$ 13 \$ 3 \$ 15	8,750 5,000 8,750 5,000 0,000 7,500	- 	\$ 8 \$ 25 \$ 8 \$ 25 \$ 25 \$ 50	750 000 750	0% 0%	\$ -	\$	\$ 8,750 \$ 25,000	\$ - \$ -	\$ 8,750 \$ 25,000	\$	-	\$	-
5.31.1 B 5.31.2 B 5.31.3 B 5.31.4 B 5.31.5 B 5.31.6 B 5.31.7 C 5.31.8 G 5.31.7 C 5.31.8 G 5.31.9 M 5.31.10 Vi 5.31.11 W 5.31.11 W 5.31.12 Y 5.31.13 Y	Berczy Beckett Park (Cherna Ave.) Berczy Glen Central Parkette - Block 291 Berczy Glen North Parkette - Block 172 Berczy Glen North Parkette - Block 170 Berczy Glen West Parkette - Block 170 Blodwen Davies Park Joldwen Davies Park Zelebration Park Aarkham Centre-Rougeside Promenade Parks //ctoria Square West Village Woodbine By-Pass North Park Gonge Grandview	2022 2022 2022 2022 2022 2022 2022 202	\$ 2 \$ 2 \$ 2 \$ 2 \$ 5 \$ 13 \$ 3 \$ 15	8,750 5,000 8,750 5,000 0,000 7,500	- 	\$ 8 \$ 25 \$ 8 \$ 25 \$ 25 \$ 50	750 000 750	0% 0%	\$ -	\$	\$ 8,750 \$ 25,000	\$ - \$ -	\$ 8,750 \$ 25,000	\$	-	\$	-
5.31.2 B. 5.31.3 B. 5.31.4 B. 5.31.5 B. 5.31.6 B. 5.31.6 B. 5.31.7 C. 5.31.8 G. 5.31.9 M. 5.31.10 VI 5.31.11 W. 5.31.12 YI 5.31.13 YI 5.31.14 B.	Berczy Glen Central Parkette - Block 291 Berczy Glen North Parkette - Block 172 Berczy Glen North Parkette - Block 170 Berczy Glen West Parkette - Block 171 Blodwen Davies Park Celebration Park Arsen Lane Park Markham Centre-Rougeside Promenade Parks <i>fictoria</i> Square West Village Woodbine By-Pass North Park Konge Grandview	2022 2022 2022 2022 2022 2022 2022 202	\$ 2 \$ 2 \$ 2 \$ 5 \$ 13 \$ 3 \$ 15	8,750 5,000 8,750 5,000 0,000 7,500	s - s - s -	\$ 8 \$ 25 \$ 8 \$ 25 \$ 25 \$ 50	750 000 750	0%	+	\$	\$ 8,750 \$ 25,000	\$ -	\$ 8,750 \$ 25,000	\$	-	-	
5.31.3 B. 5.31.4 B. 5.31.5 B. 5.31.6 B. 5.31.7 C 5.31.8 G 5.31.9 M 5.31.10 VI 5.31.10 VI 5.31.11 VI 5.31.12 Y. 5.31.13 Y.	Serczy Glen North Parkette - Block 172 Serczy Glen Northwest Parkette - Block 170 Serczy Glen West Parkette - Block 171 Blodwen Davies Park Zelebration Park Sreen Lane Park Markham Centre-Rougeside Promenade Parks /ictoria Square West Village Voodbine By-Pass North Park fonge Grandview	2022 2022 2022 2022 2022 2022 2022 202	\$ 2 \$ \$ 2 \$ 5 \$ 13 \$ 3 \$ 15	5,000 3,750 5,000 0,000 7,500	s - s - s -	\$ 25 \$ 8 \$ 25 \$ 50	000 750	0%	\$ -	Ŷ	\$ 25,000	÷	\$ 25,000	÷	-	1	-
5.31.5 B. 5.31.6 B. 5.31.7 C. 5.31.8 G 5.31.9 M 5.31.10 V 5.31.11 W 5.31.12 Y 5.31.13 Y 5.31.14 B.	Berczy Glen West Parkette - Block 171 Slodwen Davies Park Selebration Park Freen Lane Park Markham Centre-Rougeside Promenade Parks Tictoria Square West Village Woodbine By-Pass North Park fonge Grandview	2022 2022 2022 2022 2022 2022 2022 202	\$ 22 \$ 55 \$ 13 \$ 33 \$ 15	5,000 0,000 7,500	\$ - \$ -	\$ 25 \$ 50		0.9/					¢ 0.750			\$	-
5.31.5 B. 5.31.6 B. 5.31.7 C. 5.31.8 G 5.31.9 M 5.31.10 V 5.31.11 W 5.31.12 Y 5.31.13 Y 5.31.14 B.	Berczy Glen West Parkette - Block 171 Slodwen Davies Park Selebration Park Freen Lane Park Markham Centre-Rougeside Promenade Parks Tictoria Square West Village Woodbine By-Pass North Park fonge Grandview	2022 2022 2022 2022 2022 2022 2022 202	\$ 22 \$ 55 \$ 13 \$ 33 \$ 15	5,000 0,000 7,500	\$ -	\$ 25 \$ 50		U /0	\$ -	\$	\$ 8,750	\$ -	φ 8,/50	\$	-	\$	-
5.31.7 C 5.31.8 G 5.31.9 M 5.31.10 Vi 5.31.11 W 5.31.12 Yi 5.31.13 Yi 5.31.14 Bi	Celebration Park Green Lane Park Markham Centre-Rougeside Promenade Parks Jictoria Square West Village Noodbine By-Pass North Park Yonge Grandview	2022 2022 2022 2022 2022 2022	\$ 13 \$ 3 \$ 15	,500				0%	\$ -	\$	\$ 25,000	\$ -	\$ 25,000	\$	-	\$	-
5.31.8 G 5.31.9 M 5.31.10 Vi 5.31.11 W 5.31.12 Y 5.31.12 Y 5.31.13 Yu 5.31.14 Bu	Green Lane Park Markham Centre-Rougeside Promenade Parks /ictoria Square West Village Woodbine By-Pass North Park /onge Grandview	2022 2022 2022 2022 2022	\$ 3 \$ 15		\$ -		000	0%	\$ -	\$	\$ 50,000	\$ -	\$ 50,000	\$	-	\$	-
5.31.9 M 5.31.10 Vi 5.31.11 W 5.31.12 Ye 5.31.13 Ye 5.31.14 Be	Markham Centre-Rougeside Promenade Parks /ictoria Square West Village Voodbine By-Pass North Park fonge Grandview	2022 2022 2022	\$ 15	,500		\$ 137	500	0%	\$ -	\$	\$ 137,500	\$ -	\$ 137,500	\$	-	\$	-
5.31.10 Vi 5.31.11 W 5.31.12 Yi 5.31.13 Yi 5.31.14 B	/ictoria Square West Village Voodbine By-Pass North Park ⁄onge Grandview	2022 2022	+		\$-	\$ 37	500	0%	s -	\$	\$ 37,500	\$ -	\$ 37,500	\$	-	\$	-
5.31.11 W 5.31.12 Y 5.31.13 Y 5.31.14 B	Voodbine By-Pass North Park Yonge Grandview	2022	¢ 7	0,000,	\$-	\$ 150	000	0%	\$ -	\$	\$ 150,000	\$ -	\$ 150,000	\$	-	\$	-
5.31.12 Yo 5.31.13 Yo 5.31.14 Bo	(onge Grandview		- ·	5,000	\$-		000	0%	\$ -	\$	\$ 75,000	\$ -	\$ 75,000	\$	-	\$	-
5.31.13 Ye 5.31.14 Be			\$ 6	2,500	\$-		500	0%	\$ -	\$	\$ 62,500	\$ -	\$ 62,500	\$	-	\$	-
5.31.14 B	ork Downs Kennedy Road Parkette - Block 5	2022		2,500	\$-		500	0%	\$ -	\$	\$ 62,500	\$ -	\$ 62,500	\$	-	\$	-
		2022		3,750	\$-		750	0%	\$ -	\$	\$ 18,750	\$ -	\$ 18,750	\$	-	\$	-
5.31.15 B	Berczy Glen North Park - Block 207	2023		,500	\$-		500	0%	\$ -	\$	\$ 37,500	\$ -	\$ 37,500	\$	-	\$	-
	Berczy Glen Southeast Parkette - Block 307	2023		1,375	\$-		375	0%	\$ -	\$	0 1,010	\$ -	\$ 54,375	\$	-	\$	-
	Berczy Glen Southwest Parkette Block 327	2023		9,625	\$ -		625	0%	\$ -	\$	\$ 49,625	\$ -	\$ 49,625	\$	-	\$	-
	Birchmount Drive West Park	2023		,250	\$ -		250	0%	\$ -	\$	01,200	\$ -	\$ 31,250	\$	-	\$	-
	Markham Centre - Chimenti Court Park	2023		5,000	\$ -		000	0%	\$ -	\$	201000	\$ -	\$ 25,000	\$	-	\$	-
	/illages Of Fairtree East Neighbourhood Park	2023		2,500	\$ -	\$ 112		0%	\$ -	\$	2112,000	\$ -	\$ 112,500	\$	-	\$	-
	6th Avenue Parkette	2024		6,250	\$ -		250	0%	\$ -	\$	01200	\$ -	\$ -	\$	6,250	\$	-
	Bayview North Parkette	2024		1,000	\$ -		000	0%	\$ -	\$	\$ 34,000	\$ -	\$ -	\$	34,000	\$	-
	Berczy Glen Community Park	2024		2,500	\$ -	\$ 272		0%	\$ -	\$	212,000	\$ -	\$ -	\$	272,500	\$	-
	Cathedral Town Parkette	2024		8,750	\$ -		750	0%	\$ -	\$	\$ 18,750	\$ -	\$ -	\$	18,750	\$ \$	-
	Cornell Centre East Parkette	2024		0,000	s -	+	000	0% 0%	s -	\$	10,000	\$ -	\$ - \$ -	\$	40,000	-	-
	Cornell Centre West Parkette	2024		5,000	s -		000		\$ - \$ -	Ф Ф	\$ 25,000	\$ - \$ -	ъ - \$ -	\$	25,000	\$ \$	-
	East Neighbourhood Park Highway 7 North East Neighbourhood Park	2024 2024	Ψ C	2,500 3,750	s - s -		500 750	0% 0%	s -	3	\$ 62,500 \$ 43,750	s - s -	\$ - \$ -	\$ \$	62,500 43,750	ծ Տ	-
	nnovation Park	2024	-	5,750	s -	+	000	0%	s -	ф Ф	\$ 43,750 \$ 75,000	s -	ъ - \$ -	э \$	43,750	ծ Տ	-
	angstaff - Pomona Creek Park	2024		5,000	s -		000	0%	s -	ф Ф	\$ 75,000	s - s -	ъ – \$ –	э \$	75,000	ծ Տ	-
	angstaff - Woodlot Park	2024		,250	s -		250	0%		9 \$		s -	э - \$ -	э \$	31,250	э \$	-
	eitchcroft Neighbourhood Park Block 46	2024		9.250	s -	\$ 139		0%	s -	э \$		s -	э - \$ -	э \$	139,250	э \$	-
	Markham Road North East Park	2024	Ψ 10	7,500	\$ -	+	500	0%	s -	\$		s -	\$ -	\$	37,500	\$	-
	Robinson Glen Central Neighbourhood Park	2024		0,000	s -		000	0%	s -	\$		s -	\$ -	\$	40,000	\$	-
	Robinson Glen Central Parkette	2024		2,500	\$ -		500	0%	s -	¢	\$ 12,500	s -	\$ -	\$	12,500	\$	-
	Robinson Glen Community Park	2024		2,750	\$ -	\$ 272		0%	s -	\$		s -	\$ -	\$	272,750	\$	-
	Robinson Glen East Neighbourhood Park	2024		0,000	\$ -		000	0%	\$ -	\$	\$ 40,000	\$ -	\$ -	\$	40,000	\$	-
	Robinson Glen Northeast Neighbourhood Park	2024		0.000	\$ -		000	0%	\$ -	\$		\$ -	\$ -	\$	40,000	\$	-
	Robinson Glen Northwest Parkette - Block 928	2024	\$ 3	3.375	\$ -		375	0%	\$ -	\$	33,375	\$ -	\$ -	\$	33,375	\$	-
	Robinson Glen Southeast Neighbourhood Park	2024	\$ 4	0,000	\$ -	\$ 40	000	0%	\$ -	\$	\$ 40,000	\$ -	\$ -	\$	40,000	\$	-
	Robinson Glen Southwest Parkette - Block 929	2024	\$ 3	3,875	\$ -	\$ 38	875	0%	\$ -	\$	\$ 38,875	\$ -	\$ -	\$	38,875	\$	-
	Rougeside Promenade North West Park	2024	\$ 5	,000	\$ -	\$ 50	000	0%	\$ -	\$	\$ 50,000	\$ -	\$ -	\$	50,000	\$	-
	Royal Orchard South East Parkette	2024		3,750	\$ -		750	0%	\$ -	\$	\$ 18,750	\$ -	\$ -	\$	18,750	\$	-
	South Cornell Neighourhood Park	2024	\$ 8),875	\$ -	\$ 80	875	0%	\$ -	\$	\$ 80,875	\$ -	\$ -	\$	80,875	\$	-
5.31.44 Se	South Cornell Parkette - Block 156	2024	\$ 5	8,500	\$-	\$ 53	500	0%	\$-	\$	\$ 53,500	\$-	\$ -	\$	53,500	\$	-
5.31.45 Se	South Cornell Parkette - Block 159	2024	\$ 1	4,000	\$-	\$ 14	000	0%	\$-	\$	\$ 14,000	\$-	\$ -	\$	14,000	\$	-
5.31.46 Se	South Cornell Subdivision - Block 150	2024		,875	\$ -		875	0%	\$-	\$	21,010	\$-	\$ -	\$	21,875	\$	-
	Vest Neighbourhood Park	2024		2,500	\$ -		500	0%	\$ -	\$	\$ 62,500	\$ -	\$ -	\$	62,500	\$	-
	fork Downs East Parkette - Block 6	2024		5,000	\$-		000	0%	\$-	\$	001000	\$ -	\$ -	\$	35,000	\$	-
	Angus Glen East Neighbourhood Park	2025		0,000	\$ -		000	0%	\$ -	\$	\$ 40,000	\$ -	\$ -	\$	40,000	\$	-
	Berczy Glen Southwest Neighbourhood Park	2025		0,000	\$ -		000	0%	\$ -	\$	\$ 40,000	\$ -	\$ -	\$	40,000	\$	-
	Birchmount Drive East Park	2025		,250	\$ -		250	0%	\$ -	\$	\$ 31,250	\$ -	\$ -	\$	31,250	\$	-
	Carlton Park	2025		5,000	\$ -		000	0%	\$ -	\$		\$ -	\$ -	\$	25,000	\$	-
	Circa Drive East Park	2025		,250	\$ -		250	0%	\$ -	\$	\$ 31,250	\$ -	\$ -	\$	31,250	\$	-
	Circa Drive West Park	2025		0,000	\$ -		000	0%	\$ -	\$	00,000	\$ -	\$ -	\$	50,000	\$	-
	AcCowan Road Neighbourhood Park	2025		,250	\$ -		250	0%	\$ -	\$	\$ 21,250	\$ -	\$ -	\$	21,250	\$	-
	North Neighbourhood Park	2025		2,500	\$ -		500	0%	\$ -	\$	02,000	\$ -	\$ -	\$	62,500	\$	-
	Rougeside Promenade West Parks	2025		0,000	\$ -	\$ 150		0%	\$ -	\$	100,000	\$ -	\$ -	\$	150,000	\$	-
	Sheridan Nurseries Neighbourhood Park	2025		5,375	\$ -		375	0%	s -	\$	\$ 46,375	\$ -	\$ -	\$	46,375	\$	-
5.31.59 Se	South Neighbourhood Park	2025	\$ 6	2,500	\$ -	\$ 62	500	0%	\$ -	\$	\$ 62,500	\$ -	\$ -	\$	62,500	\$	-



Project Description	on							ligible Costs					e Costs		
		Timing	Project	Subsidies/Other	1	Municipal	Re	eplacement	DC Eligible	Prior	A	vailable	2022-	0	ther Dev.
			Cost	Recoveries		Cost	&	BTE Shares	Costs	 Growth	DC	Reserves	2031	Rel	ated Costs
	Thornhill Centre Timber Creek Parkette	2025	\$ 25,000	s -	\$	25,000	0%	\$ -	\$	\$ -	\$	-	\$ 25,000	\$	-
	Victoria Glen Neighbourhood Park	2025	\$ 40,000	\$ -	\$	40,000	0%	\$ -	\$ 40,000	\$ -	\$	-	\$ 40,000	\$	-
	York Downs School - Block 4	2025	\$ 40,000	\$ -	\$	40,000	0%	\$ -	\$ 40,000	\$ -	\$	-	\$ 40,000	\$	-
5.31.63	Andre De Grasse Street East Park	2026	\$ 75,000	\$ -	\$	75,000	0%	\$ -	\$ 75,000	\$ -	\$	-	\$ 75,000	\$	-
5.31.64	Highway 7 North West Neighbourhood Park	2026	\$ 18,750	\$ -	\$	18,750	0%	\$ -	\$ 18,750	\$ -	\$	-	\$ 18,750	\$	-
5.31.65	Kennedy Road South East Park	2026	\$ 31,250	\$ -	\$	31,250	0%	\$ -	\$ 31,250	\$ -	\$	-	\$ 31,250	\$	-
	King's Square	2026	\$ 18,750	\$-	\$	18,750	0%	\$ -	\$	\$ -	\$	-	\$ 18,750	\$	-
5.31.67	Markham Centre Neighbourhood Park	2026	\$ 50,000	\$-	\$	50,000	0%	\$ -	\$ 50,000	\$ -	\$	-	\$ 50,000	\$	-
	Markham Sports Park	2026	\$ 113,750	\$-	\$	113,750	0%	\$ -	\$	\$ -	\$	-	\$ 113,750	\$	-
5.31.69	Markham Square East Parkette	2026	\$ 43,750	\$-	\$	43,750	0%	\$ -	\$ 43,750	\$ -	\$	-	\$ 43,750	\$	-
	Markham Square West Parkette	2026	\$ 18,750	\$-	\$	18,750	0%	\$ -	\$ 18,750	\$ -	\$	-	\$ 18,750	\$	-
	Rougeside Promenade South West Park	2026	\$ 62,500	\$-	\$	62,500	0%	\$ -	\$ 62,500	\$ -	\$	-	\$ 62,500	\$	-
	Shops On Steeles	2026	\$ 12,500	\$-	\$	12,500	0%	\$ -	\$ 12,500	\$ -	\$	-	\$ 12,500	\$	-
5.31.73	Unionville Market Square	2026	\$ 18,750	\$-	\$	18,750	0%	\$ -	\$ 18,750	\$ -	\$	-	\$ 18,750	\$	-
5.31.74	Warden West Valley Edge Park	2026	\$ 25,000	\$-	\$	25,000	0%	\$ -	\$ 25,000	\$ -	\$	-	\$ 25,000	\$	-
	YMCA Park East	2026	\$ 75,000	\$-	\$	75,000	0%	\$ -	\$ 75,000	\$ -	\$	-	\$ 75,000	\$	-
5.31.76	YMCA Park West	2026	\$ 75,000	\$-	\$	75,000	0%	\$ -	\$ 75,000	\$ -	\$	-	\$ 75,000	\$	-
5.31.77	York Downs West Gateway Park - Block 20	2026	\$ 31,250	\$-	\$	31,250	0%	\$ -	\$ 31,250	\$ -	\$	-	\$ 31,250	\$	-
5.31.78	York Downs West Large Lot Park - Block 21	2026	\$ 40,000	\$-	\$	40,000	0%	\$ -	\$ 40,000	\$ -	\$	-	\$ 40,000	\$	-
5.31.79	York Downs West Park - Block 22	2026	\$ 50,000	\$-	\$	50,000	0%	\$ -	\$ 50,000	\$ -	\$	-	\$ 50,000	\$	-
5.31.80	York Downs West Parkette - Block 23	2026	\$ 18,750	\$-	\$	18,750	0%	\$ -	\$ 18,750	\$ -	\$	-	\$ 18,750	\$	-
5.31.81	York Downs West Parkette - Block 24	2026	\$ 12,500	\$-	\$	12,500	0%	\$ -	\$ 12,500	\$ -	\$	-	\$ 12,500	\$	-
5.31.82	Angus Glen Central Neighbourhood Park	2027	\$ 40,000	\$-	\$	40,000	0%	\$ -	\$ 40,000	\$ -	\$	-	\$ -	\$	40,000
5.31.83	Angus Glen Community Park South	2027	\$ 272,750	\$-	\$	272,750	0%	\$ -	\$ 272,750	\$ -	\$	-	\$ -	\$	272,750
5.31.84	Angus Glen Urban Park East	2027	\$ 12,500	\$-	\$	12,500	0%	\$ -	\$ 12,500	\$ -	\$	-	\$ -	\$	12,500
5.31.85	Bayview South Parkette	2027	\$ 31,250	\$-	\$	31,250	0%	\$ -	\$ 31,250	\$ -	\$	-	\$ -	\$	31,250
5.31.86	Berczy Glen Northwest Neighbourhood Park	2027	\$ 40,000	\$-	\$	40,000	0%	\$ -	\$ 40,000	\$ -	\$	-	\$ -	\$	40,000
5.31.87	Buttonville - Open Space Block North	2027	\$ 12,500	\$-	\$	12,500	0%	\$ -	\$ 12,500	\$ -	\$	-	\$ -	\$	12,500
5.31.88	Buttonville - Open Space Block South	2027	\$ 12,500	\$-	\$	12,500	0%	\$ -	\$ 12,500	\$ -	\$	-	\$ -	\$	12,500
5.31.89	Enterprise Drive Central Park South	2027	\$ 81,250	\$-	\$	81,250	0%	\$ -	\$ 81,250	\$ -	\$	-	\$ -	\$	81,250
5.31.90	Glenbar Gardens West Park	2027	\$ 48,750	\$ -	\$	48,750	0%	\$ -	\$ 48,750	\$ -	\$	-	\$ -	\$	48,750
5.31.91	Langstaff - Transit Green Park	2027	\$ 25,000	\$ -	\$	25,000	0%	\$ -	\$ 25,000	\$ -	\$	-	\$ -	\$	25,000
5.31.92	Langstaff Gateway - Cedar Park	2027	\$ 125,000	\$ -	\$	125,000	0%	\$ -	\$ 125,000	\$ -	\$	-	\$ -	\$	125,000



		Gross	Grants/	Net	Ine	ligible Costs	Т	Total			DC E	ligibl	e Costs		
Project Description	Timing	Project	Subsidies/Other	Municipal	R	eplacement		DC Eligible	Prior	ŀ	Available		2022-	0	ther Dev.
		Cost	Recoveries	Cost	&	BTE Shares		Costs	Growth	DC	C Reserves		2031	Re	lated Costs
5.31.93 Langstaff Gateway - Hub Green	2027	\$ 62,500	\$ -	\$ 	0%	\$ -	\$	02,000	\$ -	\$	-	\$	-	\$	62,500
5.31.94 Langstaff Gateway - Linear Park East	2027	\$ 112,500	\$ -	\$ 112,500	0%	\$ -	\$	112,500	\$ -	\$	-	\$	-	\$	112,500
5.31.95 Langstaff Gateway - Linear Park West	2027	\$ 62,500	\$ -	\$ 62,500	0%	\$ -	\$	62,500	\$ -	\$	-	\$	-	\$	62,500
5.31.96 Langstaff Gateway - Promenade Park	2027	\$ 62,500	\$ -	\$ 62,500	0%	\$ -	\$	62,500	\$ -	\$	-	\$	-	\$	62,500
5.31.97 Markham Centre - East Central Parkette	2027	\$ 15,000	\$ -	\$ 15,000	0%	\$ -	\$	15,000	\$ -	\$	-	\$	-	\$	15,000
5.31.98 Unionville Home Society Parkette	2027	\$ 56,250	\$ -	\$ 56,250	0%	\$ -	\$	56,250	\$ -	\$	-	\$	-	\$	56,250
5.31.99 Aviva Way South Park	2028	\$ 31,250	\$ -	\$ 31,250	0%	\$ -	\$	31,250	\$ -	\$	-	\$	-	\$	31,250
5.31.100 Cornell Centre Neighbourhood Park	2028	\$ 26,875	\$ -	\$ 26,875	0%	\$ -	\$	26,875	\$ -	\$	-	\$	-	\$	26,875
5.31.101 Enterprise Blvd North West Park	2028	\$ 250,000	\$ -	\$ 250,000	0%	\$ -	\$	250,000	\$ -	\$	-	\$	-	\$	250,000
5.31.102 Hilton Markham Suites	2028	\$ 62,500	\$ -	\$ 62,500	0%	\$ -	\$	62,500	\$ -	\$	-	\$	-	\$	62,500
5.31.103 Main Street Milliken NW Parkette	2028	\$ 50,000	\$ -	\$ 50,000	0%	\$ -	\$	50,000	\$ -	\$	-	\$	-	\$	50,000
5.31.104 Markham Centre Baseball Complex	2028	\$ 375,000	\$ -	\$ 375,000	0%	\$ -	\$	375,000	\$ -	\$	-	\$	-	\$	375,000
5.31.105 Markham Centre Soccer Complex	2028	\$ 375,000	\$ -	\$ 375,000	0%	\$ -	\$	375,000	\$ -	\$	-	\$	-	\$	375,000
5.31.106 Markham Village Town Square	2028	\$ 37,500	\$ -	\$ 37,500	0%	\$ -	\$	37,500	\$ -	\$	-	\$	-	\$	37,500
5.31.107 Milliken Main Street South East Park	2028	\$ 37,500	\$ -	\$ 37,500	0%	\$ -	\$	37,500	\$ -	\$	-	\$	-	\$	37,500
5.31.108 Milliken Neighbourhood Park	2028	\$ 18,750	\$ -	\$ 18,750	0%	\$ -	\$	18,750	\$ -	\$	-	\$	-	\$	18,750
5.31.109 Unionville Gardens - Cenotaph Square	2028	\$ 5,000	\$ -	\$ 5,000	0%	\$ -	\$	5,000	\$ -	\$	-	\$	-	\$	5,000
5.31.110 Yonge Dudley Park	2028	\$ 50,000	\$ -	\$ 50,000	0%	\$ -	\$	50,000	\$ -	\$	-	\$	-	\$	50,000
5.31.111 Cathedral North Parkette	2029	\$ 31,250	\$ -	\$ 31,250	0%	\$ -	\$	31,250	\$ -	\$	-	\$	-	\$	31,250
5.31.112 Clegg Road South West Park	2029	\$ 87,500	\$ -	\$ 87,500	0%	\$ -	\$	87,500	\$ -	\$	-	\$	-	\$	87,500
5.31.113 Kennedy Commons	2029	\$ 31,250	\$ -	\$ 31,250	0%	\$ -	\$	31,250	\$ -	\$	-	\$	-	\$	31,250
5.31.114 Markham Centre - Active Park	2029	\$ 12,500	\$ -	\$ 12,500	0%	\$ -	\$	12,500	\$ -	\$	-	\$	-	\$	12,500
5.31.115 Markham Woodside Square	2029	\$ 81,250	\$ -	\$ 81,250	0%	\$ -	\$	81,250	\$ -	\$	-	\$	-	\$	81,250
5.31.116 First Markham Place	2030	\$ 81,250	\$ -	\$ 81,250	0%	\$ -	\$	81,250	\$ -	\$	-	\$	-	\$	81,250
5.31.117 Henderson Clark Parkette	2030	\$ 7,500	\$ -	\$ 7,500	0%	\$ -	\$	7,500	\$ -	\$	-	\$	-	\$	7,500
5.31.118 Markham Centre/Unionville Parkette	2030	\$ 9,375	\$ -	\$ 9,375	0%	\$ -	\$	9,375	\$ -	\$	-	\$	-	\$	9,375
5.31.119 Markham Town Square	2030	\$ 56,250	\$ -	\$ 56,250	0%	\$ -	\$	56,250	\$ -	\$	-	\$	-	\$	56,250
5.31.120 Milliken - Market Village	2030	\$ 40,000	\$-	\$ 40,000	0%	\$-	\$	40,000	\$ -	\$	-	\$	-	\$	40,000
5.31.121 Cathedral Centre Square	2031	\$ 12,500	\$-	\$ 12,500	0%	\$ -	\$	12,500	\$ -	\$	-	\$	-	\$	12,500
5.31.122 Cathedral South Square	2031	\$ 30,000	\$-	\$ 30,000	0%	\$ -	\$	30,000	\$ -	\$	-	\$	-	\$	30,000
5.31.123 Cornell Centre South Neighbourhood Park	2031	\$ 37,500	\$ -	\$ 37,500	0%	\$ -	\$	37,500	\$ -	\$	-	\$	-	\$	37,500
Subtotal Walkway & Paths - Concrete		\$ 7,077,875	\$ -	\$ 7,077,875		\$ -	\$	7,077,875	\$ -	\$	996,500	\$	3,171,125	\$	2,910,250



				Gross		Grants/		Net	Ine	ligible Costs		Total				DC E	ligible	e Costs		
Project Descript	tion	Timing		Project	Sub	sidies/Other		Municipal	Re	eplacement		DC Eligible		Prior		Available		2022-	C	Other Dev.
				Cost	F	lecoveries		Cost	&	BTE Shares		Costs		Growth	D	C Reserves		2031	Re	lated Costs
5 00 14/11																				
5.32 Walkway 5.32.1	y & Paths - Limestone Langstaff - Woodlot Park	2024	\$	6,200	s		\$	6,200	0%	s -		\$ 6,200	\$	_	\$	_	\$	6,200	\$	_
J.JZ.1	-	2024	\$	6,200	ŝ		\$	6,200	070	\$ -	_	\$ 6,200	6		\$		\$	6,200	9 \$	
	Subtotal Walkway & Paths - Limestone		Э	0,200	Э	-	Э	6,200		ъ -	-	\$ 0,200	э	-	Э	-	Э	6,200	Э	-
5.33 Washroo	om Facilities																			
5.33.1	Celebration Park	2022	\$	731.946	ŝ	-	\$	731.946	0%	\$ -		\$ 731,946	ŝ	-	\$	731,946	\$	-	\$	-
5.33.2	Berczy Glen Community Park	2024	\$	731,946	ŝ	-	\$	731,946	0%	\$ -		\$ 731,946	ŝ	-	\$	-	\$	731,946	\$	-
5.33.3	Langstaff - Pomona Creek Park	2024	\$	731,946	ŝ	-	\$		0%	\$ -		\$ 731,946	ŝ	-	\$	-	\$	731,946	\$	-
5.33.4	Leitchcroft Community Park Block 49	2024	\$	731,946	\$	-	\$	731,946	0%	s -	-	\$ 731,946	\$	-	\$	-	\$	731,946	\$	-
5.33.5	Robinson Glen Community Park	2024	\$	731,946	\$	-	\$	731,946	0%	\$ -	-	\$ 731,946	\$	-	\$	-	\$	731,946	\$	-
5.33.6	Unionville Central Square	2024	\$	365,973	\$	-	\$		0%	s -	-	\$ 365,973	\$	-	\$	-	\$	365,973	\$	-
5.33.7	Carlton Park	2025	\$	731,946	\$	-	\$	731,946	0%	s -	-	\$ 731,946	\$	-	\$	-	\$	731,946	\$	-
5.33.8	Markham Sports Park	2026	\$	731,946	\$	-	\$	731,946	0%	s -	-	\$ 731,946	\$	-	\$	-	\$	731,946	\$	-
5.33.9	Markham Centre Baseball Complex	2028	\$	731,946	\$	-	\$	731,946	0%	\$ -	-	\$ 731,946	\$	-	\$	-	\$	-	\$	731,946
5.33.10	Markham Centre Soccer Complex	2028	\$	731,946	\$	-	\$	731,946	0%	s -	-	\$ 731,946	\$	-	\$	-	\$	-	\$	731,946
	Subtotal Washroom Facilities		\$	6,953,487	\$	-	\$	6,953,487		\$ -		\$ 6,953,487	\$	-	\$	731,946	\$	4,757,649	\$	1,463,892
	velopment - Community/City-Wide			170.070				170.070				4 4 7 9 9 7 9				4 7 0 0 7 0				
5.34.1	Berczy Beckett Park (Cherna Ave.)	2022	\$	172,072	\$	-	\$	172,072	0%	\$ -		\$ 172,072	\$	-	\$	172,072	\$	-	\$	-
5.34.2	Berczy Glen Central Parkette - Block 291	2022	\$	196,175	\$	-	\$		0%	\$ -		\$ 196,175	\$	-	\$	196,175	\$	-	\$	-
5.34.3	Berczy Glen North Parkette - Block 172	2022	\$	453,161	\$	-	\$		0%	\$ -		\$ 453,161	\$	-	\$	453,161	\$	-	\$	-
5.34.4	Berczy Glen Northwest Parkette - Block 170	2022	\$	129,746	\$	-	\$		0%	\$ -		\$ 129,746	\$	-	\$	129,746	\$	-	\$	-
5.34.5	Berczy Glen West Parkette - Block 171	2022	\$	381,623	\$	-	\$	381,623	0%	\$ -		\$ 381,623	\$	-	\$	381,623	\$	-	\$	-
5.34.6	Blodwen Davies Park	2022	\$ \$	1,468,792	\$	-	\$		0% 0%	\$ - \$ -		\$ 1,468,792	\$	-	\$	1,468,792	\$	-	\$	-
5.34.7	Celebration Park	2022	\$ \$	5,571,501	\$	-	\$			+		\$ 5,571,501	\$	-	\$	5,571,501	\$	-	\$	-
5.34.8	City-wide Growth Related Capital Program & Delivery	2022	э \$	2,510,170	\$	-	\$, ,	0%	\$ - \$ -		\$ 2,510,170	\$	-	\$ \$	2,510,170	\$ \$	-	\$	-
5.34.9	Franklin Carmichael Park - Multi-Purpose Court	2022		177,514	\$	-	\$		0% 0%	s -	-	\$ 177,514	\$	-	-	177,514	Ψ	-	\$	-
5.34.10	Green Lane Park	2022 2022	\$ \$	266,042 518,325	\$ \$	-	\$ \$		0%	+	-	\$ 266,042 \$ 518,325	2	-	\$	266,042 518,325	\$ \$	-	\$	-
5.34.11	Markham Centre Trails	2022	э \$	518,325 1,955,281	э s	-	э \$		0%	\$ - \$ -		\$ 518,325 \$ 1,955,281	\$ \$	-	\$ \$	518,325 1,955,281	5 \$	-	\$	-
5.34.12	Markham Centre-Rougeside Promenade Parks	2022	э \$		э S	-	э \$		0%	5 - 5 -			3	-	э \$	516,202	ъ Ф	-	÷	-
5.34.13	Off Leash Dog Area - Paddock Park	2022	э \$	516,202 1,399,455	э s	-	э \$		0%	s -		\$ 516,202 \$ 1,399,455	2	-	ъ \$	516,202 1.399.455	3	-	э \$	-
5.34.14	Off Road Trails	2022	э \$	1,399,455 367,867	э s	-	э \$		0%	s -		\$ 1,399,455 \$ 367,867	\$	-	ъ \$	1,399,455 367,867	\$ \$	-	э \$	-
5.34.15 5.34.16	Victoria Square West Village	2022	э \$	367,867 390,222	э s	-	\$ \$		0%	s -		\$ 367,867 \$ 390,222	\$	-	ъ \$	367,867 390,222	э \$	-	¢	-
5.34.10	Woodbine By-Pass North Park	2022	э \$	273.256	э S	-	э \$		0%	5 - 5 -		\$ 390,222 \$ 273,256	э \$	-	э \$	273,256	э \$	-	÷	-
5.34.17	Yonge Grandview York Downs Kennedy Road Parkette - Block 5	2022	э \$	273,256	э S	-	э \$		0%	s -		\$ 273,256 \$ 717,905	э \$		э \$	273,256	э \$	-	ъ \$	-
5.34.18	Berczy Glen North Park - Block 207	2022	э \$	717,905	э S	-	э \$		0%	s -		\$ 717,905 \$ 710.135	э \$	-	э \$	710,135	э \$	-	ъ с	-
5.34.20	Berczy Glen North Park - Block 207 Berczy Glen Southeast Parkette - Block 307	2023	э \$	332,590	ŝ	-	э \$		0%	\$ -		\$ 332.590	9 6	-	э \$	332,590	э \$	-	9 6	-
5.34.20	Berczy Glen Southwest Parkette Block 327	2023	\$	310,990	ŝ	-	э \$		0%	\$ -		\$ 310,990	ŝ	-	\$	121,831	\$	189,159	9 \$	-
5.34.22	Birchmount Drive West Park	2023	э \$	242,550	ŝ	-	э \$		0%	\$ -		\$ 242.550	s s	-	э \$	121,031	э \$	242,550	9 6	-
5.34.22	City-wide Growth Related Capital Program & Delivery	2023	э \$	2,510,170	ŝ	-	э S		0%	\$ -		\$ 2,510,170	9	-	э \$	-	э \$	2,510,170	φ ¢	
5.34.23	Markham Centre - Chimenti Court Park	2023	э \$	756,873	э S	-	9 \$, ,	0%	ŝ		\$ 756,873	9 S	-	э \$	-	э \$	2,510,170	9 \$	-
5.34.25	Villages Of Fairtree East Neighbourhood Park	2023	э \$	946,193	ŝ	-	э \$		0%	\$ -		\$ 946.193	s s	-	÷	-	э \$	946,193	÷	
5.34.25	Ward 2 Off Leash Dog Park	2023	э \$	516,202	ŝ	-	э \$		0%	\$ -		\$ 516.202	ŝ	-	э \$	-	\$	516,202	÷	-
5.34.20	Ward 3 Off Leash Dog Park	2023	э \$	516,202	ŝ	-	э \$		0%	\$ -		\$ 516,202 \$ 516,202	9 \$	-	э \$	-	э \$	516,202	\$	-
5.34.28	Ward 4 Off Leash Dog Park	2023	э \$	516,202	э S	-	э \$	516,202	0%	\$ -		\$ 516,202 \$ 516,202	ŝ		¢		9 \$	516,202	÷	
5.34.29	Ward 5 Off Leash Dog Park	2023	э \$	516,202	ŝ	-	э \$		0%	\$ -		\$ 516,202 \$ 516,202	ŝ	-	э \$	-	\$	516,202	÷	-
5.34.30	Ward 6 Off Leash Dog Park	2023	э \$	516,202	ŝ	-	э \$		0%	\$ -		\$ 516,202 \$ 516,202	9 \$	-	э \$	-	э \$	516,202	\$	-
5.34.30	Ward 7 Off Leash Dog Park	2023	э \$	516,202	ŝ	-	э \$	516,202	0%	\$ -		\$ 516,202	s s	-	э \$	-	э \$	516,202	э \$	-
5.34.32	Ward 8 Off Leash Dog Park	2023	\$	516,202	ŝ	-	э \$	516,202	0%	\$ -		\$ 516,202	ŝ	-	\$	-	\$	516,202	9 \$	_
3.34.32	Ward o on Least Dog Laik	2023	φ	310,202	Ŷ	-	Ψ	510,202	0.70			φ 310,202	Ş	-	Ψ	-	φ	310,202	Ψ	-



				Gross	Grants/		Net	Ine	ligible Costs		Total				DC E	ligibl	e Costs		
Project Descript	tion	Timing		Project	Subsidies/Other	r	Municipal	Re	eplacement		DC Eligible		Prior	A	vailable		2022-	Ot	ther Dev.
				Cost	Recoveries		Cost	&	BTE Shares		Costs		Growth	DC	Reserves		2031	Rela	ated Costs
5 04 00		0000	<u>^</u>	510.005	•	<u>^</u>	510.005	0.00	<u>^</u>		510.005	^					510.005	^	
5.34.33 5.34.34	Markham Centre Trails Off Road Trails	2023 2023	\$ \$	518,325 1,399,455	\$ - \$ -	\$ \$	518,325 1,399,455	0% 0%	\$ - \$ -	9	,	\$ \$	-	\$	-	\$ \$	518,325 1.399,455	\$	-
				, ,	-				÷	1	, ,	2	-	\$	-		, ,	Ψ	-
5.34.35	16th Avenue Parkette	2024	\$	42,267	\$ -	\$	42,267	0%	\$ -	5	42,267	\$	-	\$	-	\$	42,267	\$	-
5.34.36	Bayview North Parkette	2024	\$ \$	167,221	\$ - \$ -	\$	167,221	0%	\$ - \$ -	3	167,221	2	-	\$	-	\$ \$	167,221	\$ \$	-
5.34.37	Berczy Glen Community Park	2024 2024	э \$	4,221,914 469,570	\$ -	\$	4,221,914 469,570	0% 0%	s -	3	4,221,914 469,570	2	-	\$	-	\$ \$	4,221,914 469,570	э \$	-
5.34.38	Cathedral Town Parkette		э \$		s -				s -	2		э s	-	Ð	-	э \$		э \$	-
5.34.39	City-wide Growth Related Capital Program & Delivery Cornell Centre East Parkette	2024 2024	э \$	2,510,170	s - s -	\$	2,510,170 733,191	0% 0%	s -	2	2,510,170 733,191	3 \$	-	\$	-	\$ \$	2,510,170 733,191	э \$	-
5.34.40 5.34.41	Cornell Centre East Parkette	2024	э \$	733,191 202,776	5 - \$ -	э \$	202,776	0%	s -	3	,	э \$	-	¢ ¢	-	э \$	202,776	э \$	-
5.34.41	East Neighbourhood Park	2024	э \$	1,244,135	5 - \$ -	э S	1.244.135	0%	s -	3	1,244,135	э ¢	-	¢ ¢	-	э \$	1.244.135	э \$	-
	-	2024	э \$	1,244,135	- -	э \$	1,244,135	0%	s -	3	1,244,135	э ¢	-	¢	-	э \$	1,244,135	э \$	-
5.34.43 5.34.44	Highway 7 North East Neighbourhood Park Innovation Park	2024	э \$	1,829,513	5 - \$ -	э \$	155,626	0%	s -	3		э \$	-	Ф \$	-	э \$	1,829,513	э \$	-
5.34.44	Langstaff - Pomona Creek Park	2024	э \$	2,898,974	s -	э S	2,898,974	0%	s -	3	2.898.974	э с	-	¢ ¢	-	э \$	2.898.974	э \$	-
5.34.45	Langstaff - Woodlot Park	2024	э \$	2,898,974	5 - \$ -	э S	2,898,974	0%	s -	3	, ,	э с	-	¢ ¢	-	э \$	2,898,974	э \$	-
		2024	э \$	1,522,190	- -	s	1,522,190	0%	s -	4	5 1,522,196 5 1.481,305	9 6	-	ф ф	-	э \$	1,481,305	э S	-
5.34.47 5.34.48	Leitchcroft Community Park Block 49 Leitchcroft Neighbourhood Park Block 46	2024	э \$, ,	5 - \$ -	3 \$	637,725	0%	s -	3	637,725	э \$	-	¢ ¢	-	э \$	637,725	э \$	-
5.34.49	Markham Centre Trails	2024	э \$	637,725 518,325		э \$	518.325	0%	s -	4	5 518.325	9 6	-	Ф Ф	-	э \$	518.325	э S	-
5.34.50	Markham Road North East Park	2024	э \$	323,358	s -	э \$	323,358	0%	s -	4	323,358	9 6	-	Ф Ф	-	э \$	323.358	э \$	-
5.34.50	Off Road Trails	2024	э \$	1.399.455		s s	1.399.455	0%	s -	9	,	9 6	-	Ф Ф	-	э \$	1.399.455	э S	-
5.34.52	Robinson Glen Central Neighbourhood Park	2024	э \$	1,149,102	s -	ŝ	1,149,102	0%	s -	3	, ,	9 6	-	Ф Ф	-	э \$	1,149,102	э \$	-
5.34.52	Robinson Glen Central Parkette	2024	э \$	1,149,102	s -	3 \$	1,149,102	0%	s -	4	125,552	9 6	-	Ф Ф	-	э \$	1,149,102	э S	-
5.34.55	Robinson Glen Community Park	2024	э \$	4,539,821	s -	э S	4,539,821	0%	s -	3		9 6	-	Ф Ф	-	э \$	4,539,821	э \$	-
5.34.55	Robinson Glen East Neighbourhood Park	2024	\$	1,146,644	\$ -	ŝ	1,146,644	0%	\$ -	9		\$ \$	-	¢	-	\$	1,146,644	\$	-
5.34.55	Robinson Glen Northeast Neighbourhood Park	2024	э \$	1,439,682		ŝ	1,140,044	0%	s -	4	1,439,682	9 6	-	Ф Ф	-	э \$	1,439,682	э \$	-
5.34.50	Robinson Glen Northwest Parkette - Block 928	2024	э \$	281,471	s -	3 \$	281,471	0%	s -	3		9 S		ф \$	-	э \$	281,471	э \$	
5.34.58	Robinson Glen Southeast Neighbourhood Park	2024	э \$	1,869,298		э Ŝ	1.869.298	0%	s -	4	1.869.298	9 6	-	Ф Ф	-	э \$	1.869.298	э \$	-
5.34.59	Robinson Glen Southwest Parkette - Block 929	2024	э \$	1,009,290	s -	3 \$	172,874	0%	s -	4	172,874	9 6	-	Ф Ф	-	э \$	172,874	э ¢	-
5.34.60	Rougeside Promenade North West Park	2024	э \$	964,845		э \$	964.845	0%	s -	4	964,845	9 6	-	Ф Ф	-	э \$	964.845	9 6	-
5.34.61	Royal Orchard South East Parkette	2024	\$	429,101	\$ -	\$	429,101	0%	\$ -	4	429,101	ŝ		¢		\$	429,101	\$	
5.34.62	South Cornell Neighourhood Park	2024	\$	706,419	¢	\$	706.419	0%	\$ -	4	706.419	ŝ		¢		\$	706.419	s S	
5.34.63	South Cornell Parkette - Block 156	2024	\$	390,454	\$ -	\$	390,454	0%	\$ -	4	390,454	\$ \$		¢		\$	390,454	\$	
5.34.63	South Cornell Parkette - Block 150	2024	э \$	54,519	- -	э \$	54,519	0%	s -	4	5 54,519	9		ф ¢	-	э \$	54,519	э S	
5.34.65	South Cornell Subdivision - Block 159	2024	э \$	81.992	s -	э \$	81,992	0%	s -	4	81,992	9		ф ¢	-	э \$	81,992	э \$	-
5.34.65	Unionville Central Square	2024	э \$	125.622	¢ -	э \$	125.622	0%	s -	4	125.622	9 6	-	¢	-	э \$	125.622	э S	-
5.34.67	West Neighbourhood Park	2024	э \$	1,244,135	\$ -	s s	1.244.135	0%	s -	4	1.244.135	ŝ	-	¢		э \$	1.244.135	э S	-
5.34.68	York Downs East Parkette - Block 6	2024	э \$	599.658	s -	3 \$	599.658	0%	s -	4	5 1,244,135	9 6	-	¢	-	э \$	599.658	э \$	-
5.34.69	Angus Glen East Neighbourhood Park	2024	э \$	1,352,123	¢ -	э S	1,352,123	0%	s -	4	1,352,123	9 6	-	¢	-	э \$	1,352,123	÷	-
5.34.70	Berczy Glen Southwest Neighbourhood Park	2025	э \$	1,224,162	s -	ŝ	1,224,162	0%	s -	3		9 S	-	э \$	-	э \$	1,224,162	э \$	-
5.34.71	Birchmount Drive East Park	2025	\$	262,990	¢ .	\$	262,990	0%	\$ -	4	262,990	ŝ		¢	_	\$	262,990	\$	
5.34.72	Carlton Park	2025	9 \$	2,484,952	s -	9 \$	2,484,952	0%	s -	4	2,484,952	9 6	-	¢	-	э \$	2,484,952	э \$	-
5.34.72	Circa Drive East Park	2025	э \$	341,043	s -	9 \$	341.043	0%	s -	4	341,043	ŝ	-	\$	-	э \$	2,484,952	÷ \$	-
5.34.74	Circa Drive West Park	2025	\$	1,019,394	\$ -	ŝ	1,019,394	0%	\$ -	4	1,019,394	ŝ		¢	_	\$	1,019,394	\$	
5.34.75	City-wide Growth Related Capital Program & Delivery	2025	э \$	2,510,170	s -	ŝ	2,510,170	0%	s -	3		9 S	-	э \$	-	э \$	2,510,170	э S	-
5.34.75	McCowan Road Neighbourhood Park	2025	э \$	407,702	s -	9 \$	407,702	0%	s -	4	407,702	9 6	-	¢	-	э \$	407.702	э \$	-
5.34.77	North Neighbourhood Park	2025	э \$	1,244,135	s -	э Ŝ	1.244.135	0%	s -	3	,	9 S	-	э \$	-	э \$	1.244.135	э \$	-
5.34.78	Rougeside Promenade West Parks	2025	э \$	5,019,637	s -	s	5.019.637	0%	s -	4	5,019,637	÷	-	÷	-	э \$	5,019,637	э \$	-
5.34.78	Sheridan Nurseries Neighbourhood Park	2025	э \$	5,019,637 852,746	s -	э \$	5,019,637 852,746	0%	s -	3		ŝ		Ф \$		э \$	5,019,037 852,746	э \$	-
5.34.79	South Neighbourhood Park	2025	э \$	1,244,135	\$ -	э S	1.244.135	0%	s -	4	1,244,135	ŝ		ф ¢		э \$	1,244,135	э \$	-
			ъ.	1,244,130	Ψ -	ų.	1,244,133	U /0		3	1,244,133	J.				Φ		Φ	-



		Gross	Grants/		Net	Ine	ligible Costs		1	otal	DC Eligible Costs			e Costs				
Project Description	Timing	Project	Subsidies/Other		Municipal	R	eplacement		DC	Eligible		Prior	A	vailable		2022-	Othe	er Dev.
		Cost	Recoveries		Cost	&	BTE Shares		C	Costs		Growth	DC	Reserves		2031	Relat	ed Costs
5.34.81 Markham Centre Trails	2025	\$ 518,325		\$	518,325	0%	\$	-	\$	518,325	\$	-	\$	-	\$	518,325	\$	-
5.34.82 Off Road Trails	2025	\$ 1,399,455	\$ -	\$	1,399,455	0%	\$	-	\$	1,399,455	\$	-	\$	-	\$	1,399,455	\$	-
5.34.83 Thornhill Centre Timber Creek Parkette	2025	\$ 351,750	\$ -	\$	351,750	0%	\$	-	\$	351,750	\$	-	\$	-	\$	351,750	\$	-
5.34.84 Victoria Glen Neighbourhood Park	2025	\$ 1,139,319	\$ -	\$	1,139,319	0%	\$	-	\$	1,139,319	\$	-	\$	-	\$	1,139,319	\$	-
5.34.85 York Downs School - Block 4	2025	\$ 1,497,376		\$	1,497,376	0%	\$	-	\$	1,497,376	\$	-	\$	-	\$	1,497,376	\$	-
5.34.86 Andre De Grasse Street East Park	2026	\$ 2,615,457	\$ -	\$	2,615,457	0%	\$	-	\$	2,615,457	\$	-	\$	-	\$	2,615,457	\$	-
5.34.87 City-wide Growth Related Capital Program & Deliv		\$ 2,510,170	\$ -	\$	2,510,170	0%	\$	-	\$	2,510,170	\$	-	\$	-	\$	2,510,170	\$	-
5.34.88 Highway 7 North West Neighbourhood Park	2026	\$ 640,561	\$ -	\$	640,561	0%	\$	-	\$	640,561	\$	-	\$	-	\$	640,561	\$	-
5.34.89 Kennedy Road South East Park	2026	\$ 273,772	\$ -	\$	273,772	0%	\$	-	\$	273,772	\$	-	\$	-	\$	273,772	\$	-
5.34.90 King'S Square	2026	\$ 257,545	\$ -	\$	257,545	0%	\$	-	\$	257,545	\$	-	\$	-	\$	257,545	\$	-
5.34.91 Markham Centre - Aryeh Strata Park	2026	\$ 1,769,760	\$ -	\$	1,769,760	0%	\$	-	\$	1,769,760	\$	-	\$	-	\$	1,769,760	\$	-
5.34.92 Markham Centre Neighbourhood Park	2026	\$ 1,958,719	\$ -	\$	1,958,719	0%	\$	-	\$	1,958,719	\$	-	\$	-	\$	1,958,719	\$	-
5.34.93 Markham Centre Trails	2026	\$ 518,325	\$ -	\$	518,325	0%	\$	-	\$	518,325	\$	-	\$	-	\$	518,325	\$	-
5.34.94 Markham Sports Park	2026	\$ 24,102,061	\$ -	\$	24,102,061	0%	\$	-	\$ 2	24,102,061	\$	-	\$	-	\$	24,102,061	\$	-
5.34.95 Markham Square East Parkette	2026	\$ 717,661	\$ -	\$	717,661	0%	\$	-	\$	717,661	\$	-	\$	-	\$	717,661	\$	-
5.34.96 Markham Square South West Parkette	2026	\$ 35,769	\$ -	\$	35,769	0%	\$	-	\$	35,769	\$	-	\$	-	\$	35,769	\$	-
5.34.97 Markham Square West Parkette	2026	\$ 753,906	\$ -	\$	753,906	0%	\$	-	\$	753,906	\$	-	\$	-	\$	753,906	\$	-
5.34.98 Off Road Trails	2026	\$ 1,399,455	\$ -	\$	1,399,455	0%	\$	-	\$	1,399,455	\$	-	\$	-	\$	1,399,455	\$	-
5.34.99 Rougeside Promenade South West Park	2026	\$ 844,346	\$ -	\$	844,346	0%	\$	-	\$	844,346	\$	-	\$	-	\$	844,346	\$	-
5.34.100 Shops On Steeles	2026	\$ 432,219	\$ -	\$	432,219	0%	\$	-	\$	432,219	\$	-	\$	-	\$	432,219	\$	-
5.34.101 South Town Centre Blvd North West Park	2026	\$ 354,368	\$ -	\$	354,368	0%	\$	-	\$	354,368	\$	-	\$	-	\$	354,368	\$	-
5.34.102 Unionville Market Square	2026	\$ 52,080	\$ -	\$	52,080	0%	\$	-	\$	52,080	\$	-	\$	-	\$	52,080	\$	-
5.34.103 Warden West Valley Edge Park	2026	\$ 643,769	\$ -	\$	643,769	0%	\$	-	\$	643,769	\$	-	\$	-	\$	643,769	\$	-
5.34.104 Ymca Park East	2026	\$ 993,563	\$ -	\$	993,563	0%	\$	-	\$	993,563	\$	-	\$	-	\$	993,563	\$	-
5.34.105 Ymca Park West	2026	\$ 1,064,129	\$ -	\$	1,064,129	0%	\$	-	\$	1,064,129	\$	-	\$	-	\$	1,064,129	\$	-
5.34.106 York Downs West Gateway Park - Block 20	2026	\$ 1,049,542	\$ -	\$	1,049,542	0%	\$	-	\$	1,049,542	\$	-	\$	-	\$	1,049,542	\$	-
5.34.107 York Downs West Large Lot Park - Block 21	2026	\$ 859,470	\$ -	\$	859,470	0%	ŝ	-	\$	859,470	\$	-	\$	-	\$	859,470	\$	
5.34.108 York Downs West Park - Block 22	2026	\$ 372,400		\$	372,400	0%	ŝ	-	\$	372,400	\$	-	\$	-	\$	372,400	\$	
5.34.109 York Downs West Parkette - Block 23	2026	\$ 96,420	\$ -	\$	96,420	0%	ŝ	-	\$	96,420	\$	-	\$	-	\$	96,420	\$	
5.34.110 York Downs West Parkette - Block 24	2026	\$ 386,558	\$ -	\$	386,558	0%	ŝ	-	\$	386,558	\$	-	\$	-	\$	386,558	\$	
				Ľ	,				-	,			[`		Ľ			



			Gross	Grants/		Net	Ine	eligible C	osts		Total	DC Eligible Costs						
Project Description	Timing		Project	Subsidies/Other		Municipal	R	eplacem	ient		DC Eligible	P	rior	A	vailable	T	2022-	Other Dev.
			Cost	Recoveries		Cost	&	BTE Sha	ares		Costs	Gi	owth	DC	Reserves		2031	Related Costs
	0007	<u>^</u>	4 4 4 7 7 4 4		•		0.01	•			4 4 9 7 7 4 9			<u>^</u>		<u>^</u>	4 4 9 7 7 4 9	•
5.34.111 Angus Glen Central Neighbourhood Park	2027	\$	1,197,743	\$ -	\$	1,197,743	0%	s	-	\$	1,197,743	\$	-	\$	-	\$	1,197,743	
5.34.112 Angus Glen Community Park South	2027	\$	4,923,427	\$ -	\$	4,923,427	0%	S	-	\$	4,923,427	\$	-	\$	-	\$	2,666,562	\$ 2,256,80
5.34.113 Angus Glen Urban Park East	2027	\$	372,010	\$ -	\$	372,010	0%	\$	-	\$	372,010	\$	-	\$	-	\$	-	\$ 372,03
5.34.114 Bayview South Parkette	2027	\$	656,085	\$ -	\$	656,085	0%	\$	-	\$	656,085	\$	-	\$	-	\$	-	\$ 656,08
5.34.115 Berczy Glen Northwest Neighbourhood Park	2027	\$	1,307,352	\$ -	\$	1,307,352	0%	\$	-	\$	1,307,352	\$	-	\$	-	\$	-	\$ 1,307,35
5.34.116 Buttonville - Open Space Block North	2027	\$	208,976	\$ -	\$	208,976	0%	S	-	\$	208,976	\$	-	\$	-	\$	-	\$ 208,9
5.34.117 Buttonville - Open Space Block South	2027	\$	335,179	\$ -	\$	335,179	0%	\$	-	\$	335,179	\$	-	\$	-	\$	-	\$ 335,1
5.34.118 City-wide Growth Related Capital Program & Delivery	2027	\$	2,510,170	\$ -	\$	2,510,170	0%	S	-	\$	2,510,170	\$	-	\$	-	\$	-	\$ 2,510,1
5.34.119 Enterprise Drive Central Park South	2027	\$	3,043,093	\$ -	\$	3,043,093	0%	\$	-	\$	3,043,093	\$	-	\$	-	\$	-	\$ 3,043,09
5.34.120 Glenbar Gardens West Park	2027	\$	291,544	\$ -	\$	291,544	0%	\$	-	\$	291,544	\$	-	\$	-	\$	-	\$ 291,54
5.34.121 Langstaff - Transit Green Park	2027	\$	160,582	\$ -	\$	160,582	0%	\$	-	\$	160,582	\$	-	\$	-	\$	-	\$ 160,58
5.34.122 Langstaff Gateway - Cedar Park	2027	\$	1,534,529	\$ -	\$	1,534,529	0%	s	-	\$	1,534,529	\$	-	\$	-	\$	-	\$ 1,534,52
5.34.123 Langstaff Gateway - Hub Green	2027	\$	1,102,048	\$ -	\$	1,102,048	0%	\$	-	\$	1,102,048	\$	-	\$	-	\$	-	\$ 1,102,04
5.34.124 Langstaff Gateway - Linear Park East	2027	\$	1,756,735	\$ -	\$	1,756,735	0%	\$	-	\$	1,756,735	\$	-	\$	-	\$	-	\$ 1,756,73
5.34.125 Langstaff Gateway - Linear Park West	2027	\$	1,070,750	\$-	\$	1,070,750	0%	s	-	\$	1,070,750	\$	-	\$	-	\$	-	\$ 1,070,75
5.34.126 Langstaff Gateway - Promenade Park	2027	\$	332,421	\$ -	\$	332,421	0%	\$	-	\$	332,421	\$	-	\$	-	\$	-	\$ 332,42
5.34.127 Markham Centre - East Central Parkette	2027	\$	779,085	\$ -	\$	779,085	0%	\$	-	\$	779,085	\$	-	\$	-	\$	-	\$ 779,08
5.34.128 Markham Centre Trails	2027	\$	518,325	\$ -	\$	518,325	0%	\$	-	\$	518,325	\$	-	\$	-	\$	-	\$ 518,32
5.34.129 Off Road Trails	2027	\$	1,399,455	\$ -	\$	1,399,455	0%	\$	-	\$	1,399,455	\$	-	\$	-	\$	-	\$ 1,399,45
5.34.130 Unionville Home Society Parkette	2027	\$	251,952	\$ -	\$	251,952	0%	\$	-	\$	251,952	\$	-	\$	-	\$	-	\$ 251,95
5.34.131 Aviva Way South Park	2028	\$	391,637	\$ -	\$	391,637	0%	\$	-	\$	391,637	\$	-	\$	-	\$	-	\$ 391,63
5.34.132 City-wide Growth Related Capital Program & Delivery	2028	\$	2,510,170	\$ -	\$	2,510,170	0%	\$	-	\$	2,510,170	\$	-	\$	-	\$	-	\$ 2,510,1
5.34.133 Cornell Centre Neighbourhood Park	2028	\$	388,398	\$ -	\$	388,398	0%	\$	-	\$	388,398	\$	-	\$	-	\$	-	\$ 388,39
5.34.134 Enterprise Blvd North West Park	2028	\$	2,522,708	\$ -	\$	2,522,708	0%	\$	-	\$	2,522,708	\$	-	\$	-	\$	-	\$ 2,522,70
5.34.135 Hilton Markham Suites	2028	\$	425,389	\$ -	\$	425,389	0%	\$	-	\$	425,389	\$	-	\$	-	\$	-	\$ 425,38
5.34.136 Main Street Milliken NW Parkette	2028	\$	341,741	\$ -	\$	341,741	0%	s	-	\$	341,741	\$	-	\$	-	\$	-	\$ 341,74
5.34.137 Markham Centre Baseball Complex	2028	\$	6,995,560	\$ -	s	6,995,560	0%	s	-	\$	6.995.560	\$	-	\$	-	\$	-	\$ 6,995,50
5.34.138 Markham Centre Soccer Complex	2028	\$	5,138,124	\$ -	s	5,138,124	0%	s	-	\$	5.138.124	\$	-	\$	-	\$	-	\$ 5,138,12
5.34.139 Markham New World Centre	2028	\$	1,137,770	\$ -	s	1.137.770	0%	s	-	\$	1,137,770	\$	-	\$	-	\$	-	\$ 1,137,77
5.34.140 Markham Village Town Square	2028	\$	454,869	\$ -	\$	454,869	0%	\$	-	\$	454,869	\$	-	\$	-	\$	-	\$ 454,80
5.34.141 Milliken Main Street South East Park	2028	\$	363,116	\$ -	s	363,116	0%	s	-	\$	363,116	\$	-	\$	-	\$	-	\$ 363,13
5.34.142 Milliken Neighbourhood Park	2028	\$	668,008	\$ -	ŝ	668,008	0%	s	-	\$	668,008	\$	-	\$	-	\$	-	\$ 668,00
	2020	Ĺ	500,000	-	Ť	100,000	270	Ť		Ť	100,000	-		Ē		1 T		÷



		Gross	Grants/	Net	Ine	ligible C	osts	Total				DC	Eligib	le Costs		
Project Description	Timing	Project	Subsidies/Other	Municipal	Re	eplaceme	ent	DC Eligible		Prior	A	vailable		2022-		Other Dev.
		Cost	Recoveries	Cost	&	BTE Sha	res	Costs	G	arowth	DC	Reserves		2031	F	Related Costs
5.34.143 Markham Centre Trails	2028	\$ 518,325	\$ -	\$ 518,325	0%	\$	-	\$ 518,325	\$	-	\$	-	\$	-	\$	518,325
5.34.144 Off Road Trails	2028	\$ 1,399,455	\$ -	\$ 1,399,455	0%	\$	-	\$ 1,399,455	\$	-	\$	-	\$	-	\$	1,399,455
5.34.145 Unionville Gardens - Cenotaph Square	2028	\$ 68,666	\$ -	\$ 68,666	0%	s	-	\$ 68,666	\$	-	\$	-	\$	-	\$	68,666
5.34.146 Yonge Dudley Park	2028	\$ 767,041	\$ -	\$ 767,041	0%	\$	-	\$ 767,041	\$	-	\$	-	\$	-	\$	767,041
5.34.147 Cathedral North Parkette	2029	\$ 215,749	\$ -	\$ 215,749	0%	\$	-	\$ 215,749	\$	-	\$	-	\$	-	\$	215,749
5.34.148 City-wide Growth Related Capital Program & Delivery	2029	\$ 2,510,170	\$ -	\$ 2,510,170	0%	\$	-	\$ 2,510,170	\$	-	\$	-	\$	-	\$	2,510,170
5.34.149 Clegg Road South West Park	2029	\$ 2,759,104	\$ -	\$ 2,759,104	0%	\$	-	\$ 2,759,104	\$	-	\$	-	\$	-	\$	2,759,104
5.34.150 Kennedy Commons	2029	\$ 238,002	\$ -	\$ 238,002	0%	\$	-	\$ 238,002	\$	-	\$	-	\$	-	\$	238,002
5.34.151 Markham Centre - Active Park	2029	\$ 1,077,051	\$ -	\$ 1,077,051	0%	\$	-	\$ 1,077,051	\$	-	\$	-	\$	-	\$	1,077,051
5.34.152 Markham Centre Trails	2029	\$ 518,325	\$ -	\$ 518,325	0%	\$	-	\$ 518,325	\$	-	\$	-	\$	-	\$	518,325
5.34.153 Markham Woodside Square	2029	\$ 2,955,187	\$ -	\$ 2,955,187	0%	\$	-	\$ 2,955,187	\$	-	\$	-	\$	-	\$	2,955,187
5.34.154 Off Road Trails	2029	\$ 1,399,455	\$ -	\$ 1,399,455	0%	\$	-	\$ 1,399,455	\$	-	\$	-	\$	-	\$	1,399,455
5.34.155 City-wide Growth Related Capital Program & Delivery	2030	\$ 2,510,170	\$ -	\$ 2,510,170	0%	\$	-	\$ 2,510,170	\$	-	\$	-	\$	-	\$	2,510,170
5.34.156 First Markham Place	2030	\$ 2,577,174	\$ -	\$ 2,577,174	0%	\$	-	\$ 2,577,174	\$	-	\$	-	\$	-	\$	2,577,174
5.34.157 Henderson Clark Parkette	2030	\$ 127,339	\$ -	\$ 127,339	0%	\$	-	\$ 127,339	\$	-	\$	-	\$	-	\$	127,339
5.34.158 Markham Centre Trails	2030	\$ 518,325	\$ -	\$ 518,325	0%	\$	-	\$ 518,325	\$	-	\$	-	\$	-	\$	518,325
5.34.159 Markham Centre/Unionville Parkette	2030	\$ 561,184	\$ -	\$ 561,184	0%	\$	-	\$ 561,184	\$	-	\$	-	\$	-	\$	561,184
5.34.160 Markham Town Square	2030	\$ 348,377	\$ -	\$ 348,377	0%	\$	-	\$ 348,377	\$	-	\$	-	\$	-	\$	348,377
5.34.161 Milliken - Market Village	2030	\$ 1,413,401	\$ -	\$ 1,413,401	0%	\$	-	\$ 1,413,401	\$	-	\$	-	\$	-	\$	1,413,401
5.34.162 Off Road Trails	2030	\$ 1,399,455	\$ -	\$ 1,399,455	0%	\$	-	\$ 1,399,455	\$	-	\$	-	\$	-	\$	1,399,455
5.34.163 Cathedral Centre Square	2031	\$ 563,469	\$ -	\$ 563,469	0%	\$	-	\$ 563,469	\$	-	\$	-	\$	-	\$	563,469
5.34.164 Cathedral South Square	2031	\$ 959,583	\$ -	\$ 959,583	0%	\$	-	\$ 959,583	\$	-	\$	-	\$	-	\$	959,583
5.34.165 City-wide Growth Related Capital Program & Delivery	2031	\$ 2,510,170	\$ -	\$ 2,510,170	0%	\$	-	\$ 2,510,170	\$	-	\$	-	\$	-	\$	2,510,170
5.34.166 Cornell Centre South Neighbourhood Park	2031	\$ 436,334	\$-	\$ 436,334	0%	\$	-	\$ 436,334	\$	-	\$	-	\$	-	\$	436,334
5.34.167 Markham Centre Trails	2031	\$ 518,325	\$-	\$ 518,325	0%	\$	-	\$ 518,325	\$	-	\$	-	\$	-	\$	518,325
5.34.168 Off Road Trails	2031	\$ 1,399,455	\$ -	\$ 1,399,455	0%	\$	-	\$ 1,399,455	\$	-	\$	-	\$	-	\$	1,399,455
Subtotal Park Development - Community/City-Wide		\$ 207,412,595	\$ -	\$ 207,412,595		\$	-	\$ 207,412,595	\$	-	\$	18,629,865	\$	117,288,793	\$	71,493,937
TOTAL PARK DEVELOPMENT & FACILITIES		\$ 325,989,933	\$-	\$ 325,989,933		\$	-	\$ 325,989,933	\$	-	\$ 2	8,533,849	\$	169,582,317	\$	127,873,766.6

Residential Development Charge Calculation		
Residential Share of 2022 - 2031 DC Eligible Costs	100%	\$169,582,317
10-Year Growth in Population in New Units		90,381
Unadjusted Development Charge Per Capita		\$1,876.30
Non-Residential Development Charge Calculation		
Non-Residential Share of 2022 - 2031 DC Eligible Costs	0%	\$0
10-Year Growth in Square Metres		2,550,244
Unadjusted Development Charge Per Square Metre		\$0.00

2022 - 2031 Net Funding Envelope	\$169,582,317
Reserve Fund Balance	\$28,533,849



TABLE B.5-3

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE PARK DEVELOPMENT & FACILITIES RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

PARK DEVELOPMENT & FACILITIES	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
OPENING CASH BALANCE	\$28,533.85	\$16,865.19	\$19,030.79	(\$32,506.68)	(\$52,636.71)	(\$91,369.52)	(\$80,235.19)	(\$63,207.90)	(\$44,265.93)	(\$23,251.88)	
2022 - 2031 RESIDENTIAL FUNDING REQUIREMENTS - Prior Growth (Funding from DC Reserve Balance)	\$23,292.7	\$3,313.5	\$1,927.7	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$28,533.8
 Parks And Recreation (New Projects): Non Inflated Park Development & Facilities: Inflated 	\$5,293.9 \$28,586.6	\$11,842.7 \$15,459.3	\$64,007.7 \$68,599.2	\$34,363.5 \$36,466.8	\$50,210.2 \$54,349.1	\$3,864.3 \$4,266.5	\$0.0 \$0.0	\$0.0 \$0.0	\$0.0 \$0.0	\$0.0 \$0.0	\$169,582.3 \$207,727.5
NEW RESIDENTIAL DEVELOPMENT - Population Growth in New Units	8,094	8,301	8,514	8,733	8,955	9,085	9,315	9,549	9,792	10,043	90,381
REVENUE - DC Receipts: Inflated	\$16,258.3	\$17,007.5	\$17,792.8	\$18,615.5	\$19,470.5	\$20,148.2	\$21,071.5	\$22,032.8	\$23,045.4	\$24,108.8	\$199,551.4
INTEREST - Interest on Opening Balance - Interest on In-year Transactions	\$998.7 (\$339.0)	\$590.3 \$27.1	\$666.1 (\$1,397.2)	(\$1,787.9) (\$490.9)	(\$2,895.0) (\$959.2)	(\$5,025.3) \$277.9	(\$4,412.9) \$368.8	(\$3,476.4) \$385.6	(\$2,434.6) \$403.3	(\$1,278.9) \$421.9	(\$19,056.0) (\$1,301.7)
TOTAL REVENUE	\$16,917.9	\$17,624.9	\$17,061.7	\$16,336.7	\$15,616.3	\$15,400.8	\$17,027.3	\$18,942.0	\$21,014.0	\$23,251.9	\$179,193.7
CLOSING CASH BALANCE	\$16,865.2	\$19,030.8	(\$32,506.7)	(\$52,636.7)	(\$91,369.5)	(\$80,235.2)	(\$63,207.9)	(\$44,265.9)	(\$23,251.9)	\$0.0	

2022 Adjusted Charge Per Capita

\$2,008.68

 Allocation of Capital Program

 Residential Sector
 100.0%

 Non-Residential Sector
 0.0%

 Rates for 2022
 Inflation Rate:
 2.0%

 Interest Rate on Positive Balances
 3.5%
 Interest Rate on Negative Balances



Appendix B.6 Public Works



Appendix B.6: Public Works

The City of Markham Public Works Department operates out of 555 Miller Avenue, East Yard, and 8100 Warden where its main office, storage sheds, salt and sand domes, sign shop and domes are located.

Table B.6-12012 - 2021 Historical Service Levels

The ten-year historical inventory of capital assets for Public Works includes 149,200 square feet of building space with a replacement value of \$30.76 million. The 14.67 hectares of land associated with the Public Works buildings are valued at \$58.62 million. Furniture & equipment and fleet add an additional \$2.64 million and \$71.06 million to the value of the Public Works capital assets.

The total value of the Public Works capital infrastructure in 2021 is estimated to be \$163.09 million. The ten-year historical average service level is \$282.86 per net population and employment; when multiplied by the tenyear forecast net population and employment growth (145,660), a ten-year maximum allowable funding envelope of \$41.20 million is the result.

Table B.6-22022 – 2031 Development-Related CapitalProgram and Calculation of the UnadjustedDevelopment Charges

The total 2022 – 2031 development-related capital program for the Public Works department amounts to \$107.79 million.

The Public Works capital program lists several projects including the recovery of the negative Public Works DC reserve fund balance (\$2.35 million), three additional facilities (\$34.10 million) as well as land acquisition (\$63.66 million), furniture, and equipment (\$0.29 million).



Three new facilities include a new garage/office with a construction cost of \$28.43 million, a decanting dome amounting to \$4.78 million, and a weather protected storage unit with a gross cost of \$0.89 million are expected to be constructed in 2025.

Additionally, acquisition of land to accommodate a works yard expansion in 2023 and land development/pavement in 2024 account for \$63.66 million of the total Public Works capital program.

Finally, furniture and equipment for these projects add another \$0.29 in capital costs. The City will acquire a number of vehicles for these projects, including trucks, forklifts, mowers, and tractors, for a total fleet cost of \$7.41 million to the Public Works capital program.

No grants or replacement shares have been identified for this service; as such, the full amount of the Public Works capital program (\$107.79) is deemed eligible for recovery through DCs.

A significant share of the development-related capital program, \$128.31 million, is above the 10-year historic service level net funding envelope and as such, has been removed from the 2022 – 2031 development charges calculation and will be examined for recovery under subsequent DC by-law updates(subject to service level restrictions), other growth-funding tools or other funding sources. These costs are allocated 62 per cent, or \$25.51 million, against new residential development, and 38 per cent, or \$15.69 million, against non-residential development. When divided by the ten-year forecasted population growth in new units (90,380), this yields an unadjusted residential development charge of \$282.26 per capita.

The unadjusted retail development charge is \$7.24 per square metre, while the unadjusted industrial/office/institutional (I.O.I.) charge is \$5.84 per square metre. The unadjusted mixed use charge is \$3.53 per square metre.



Table B.6-3Cash Flow Analysis

After cash flow analysis, the residential calculated charge increases to \$320.59 per capita. The non-residential charge for retail increases to \$8.28 per square metre and the industrial/office/institutional charge increases to \$6.64 per square metre. The mixed use charge increases to \$4.04 per square metre. This is a reflection of the timing of the capital program and development charges revenues.

The following table summarizes the calculation of the Public Works development charge.

			PUE	BLIC WORK	S SUMMA	RY				
				Unad	justed			Adju	sted	
10-year Hist.	203	22 - 2031		Developme	ent Charge			Developme	ent Charge	
Service Level	Development-R	elated Capital Program	Residential	Retail	1.0.1.	Mixed-Use	Residential	Retail	I.O.I.	Mixed-Use
per pop & emp	Total	Net DC Recoverable	\$/capita	\$/sq.m	\$/sq.m	\$/sq.m	\$/capita	\$/sq.m	\$/sq.m	\$/sq.m
\$282.86	\$107,794,294	\$41,201,500	\$282.26	\$7.24	\$5.84	\$3.53	\$320.59	\$8.28	\$6.64	\$4.04



BUILDINGS					# of Squ	are Feet					UNIT COST
Facility Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/sq.ft.)
555 Miller Ave:											
Garage / Office	33,002	33,002	33,002	33,002	33,002	33,002	33,002	33,002	33,002	33,002	\$379
Metal Storage Shed	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	\$123
Salt Dome Structure	6,450	6,450	6,450	6,450	6,450	6,450	6,450	6,450	-	-	\$123
Salt Barn 1	-	-	-	-	-	-	-	8,678	8,678	8,678	\$123
Salt Barn 2	-	-	-	-	-	-	-	8,678	8,678	8,678	\$123
Sand Dome Structure	6,450	6,450	6,450	6,450	6,450	6,450	6,450	6,450	6,450	6,450	\$123
Sign Shop	3,988	3,988	3,988	3,988	3,988	3,988	3,988	3,988	3,988	3,988	\$379
Wood Dome Structure	7,900	7,900	7,900	7,900	7,900	7,900	7,900	7,900	7,900	7,900	\$123
Wood Storage Shed	560	560	560	560	560	560	560	560	560	560	\$123
Quonset Hut	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	\$123
East Yard:											
Office Trailer	-	-	-	-	-	-	-	-	-	2,160	\$379
Salt Dome Structure	-	-	-	-	-	-	-	-	-	64,066	\$123
8100 Warden:											
Garage for Fleet Storage	8,050	8,050	8,050	8,050	8,050	8,050	8,050	8,050	8,050	8,050	\$379
Office Space	665	665	665	665	665	665	665	665	665	665	\$615
Total (#)	72,065	72,065	72,065	72,065	72,065	72,065	72,065	89,421	82,971	149,197	
Total (\$000)	\$20,721.4	\$20,721.4	\$20,721.4	\$20,721.4	\$20,721.4	\$20,721.4	\$20,721.4	\$22,856.2	\$22,062.9	\$30,761.6	



LAND					# of He	ectares					UNIT COST
Facility Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/ha)
555 Miller Ave	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	\$6,384,000
3290 14th Ave	-	-	-	-	-	-	-	-	1.39	1.39	\$6,384,000
East Yard - 10192 Ninth Line	-	-	-	-	-	-	-	-	8.01	8.01	\$950,000
8100 Warden	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	\$13,714,000
Total (ha)	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.27	14.67	14.67	
Total (\$000)	\$42,146.5	\$42,146.5	\$42,146.5	\$42,146.5	\$42,146.5	\$42,146.5	\$42,146.5	\$42,146.5	\$58,624.2	\$58,624.2	

FURNITURE & EQUIPMENT				Total	Value of Furnit	ture & Equipme	ent (\$)			
Facility Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Shop Equipment	\$478,229	\$478,229	\$478,229	\$478,229	\$478,229	\$478,229	\$478,229	\$478,229	\$478,229	\$478,229
Other Equipment	\$682,066	\$682,066	\$682,066	\$682,066	\$682,066	\$682,066	\$682,066	\$682,066	\$682,066	\$682,066
Fuel Station (Gas & Diesel)	-	-	-	-	-	\$283,250	\$283,250	\$283,250	\$283,250	\$283,250
Brine Tanks	\$51,500	\$51,500	\$51,500	\$51,500	\$51,500	\$51,500	\$51,500	\$51,500	\$51,500	\$51,500
Fence Gate and Lighting	-	-	-	-	-	-	-	\$108,150	\$108,150	\$108,150
Fuel Station (Gas & Diesel) - 14th Avenue	-	-	-	-	-	\$113,300	\$113,300	\$113,300	\$113,300	\$113,300
East Yard:										
Brine System	-	-	-	-	-	-	-	-	-	150,000
Scale	-	-	-	-	-	-	-	-	-	215,000
Fuel Station (Gas & Diesel)	-	-	-	-	-	-	-	-	-	220,000
Diesel Generator w/Fuel line	-	-	-	-	-	-	-	-	-	340,000
Total (\$000)	\$1,211.8	\$1,211.8	\$1,211.8	\$1,211.8	\$1,211.8	\$1,608.3	\$1,608.3	\$1,716.5	\$1,716.5	\$2,641.5



FLEET & EQUIPMENT					# of	Fleet					UNIT COST
Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
Utility Truckster	10	10	10	10	8	11	11	11	11	11	\$24,800
Rotary Walkbehind	20	18	16	14	11	5	5	5	5	5	\$9,300
Rotary Mower	8	9	13	15	15	6	6	8	8	8	\$72,800
Zero Turn Mower	43	32	33	33	39	39	39	39	39	39	\$19,270
Articulating Flail Mower	-	-	-	-	-	-	-	1	1	1	\$28,610
Car Compact	2	3	3	8	10	10	10	10	10	10	\$23,710
Compact Pick-Up	13	11	11	11	11	11	11	11	11	11	\$37,465
Compact Van	17	17	17	15	15	15	15	15	15	15	\$43,140
Full Size 2WD Pick-Up	18	15	10	11	11	11	11	11	11	11	\$34,190
Full Size Van	24	26	26	28	29	29	29	29	29	32	\$38,690
1 Ton Full-Sized Pick-Up	3	3	4	4	4	-	-	-	-	-	\$36,000
Car Mid Size	4	3	3	3	2	-	-	-	-	-	\$27,800
Full Size 4WD Pick-Up	61	22	22	22	22	21	21	21	21	22	\$45,260
Sport Utility Vehicle											
Regular	8	8	8	8	8	8	8	8	8	8	\$28,840
Hybrid	10	12	14	14	16	10	10	10	9	9	\$42,420
PHEV	-	-	-	-	-	6	6	6	7	7	\$54,570
1 Ton Flat Bed	19	19	19	19	19	20	20	20	20	20	\$49,500
3 ton Trucks	1	-	-	-	-	-	-	-	-	-	\$95,500
Agricultural Tractors	21	21	21	21	21	21	21	21	21	21	\$55,450
Articulating Loader	1	1	1	1	1	1	1	1	2	2	\$267,210
Backhoe	1	1	1	1	1	1	1	1	1	1	\$152,410
Bucket Truck	2	2	2	2	2	3	3	3	3	3	\$244,090
Camera Truck	1	1	1	1	1	1	1	1	1	1	\$378,150
Crane Truck	1	1	1	1	1	1	1	1	1	1	\$310,100
Cube Van	1	1	1	1	1	1	1	1	1	1	\$52,460
Landscape Loader	5	5	5	5	5	5	5	5	5	5	\$131,400
Mott Mowers	4	4	4	4	4	6	6	6	6	6	\$10,860
Rotary Mowers 16' pull behind	1	1	1	1	1	1	1	1	1	1	\$16,240
Rotary Mowers 16' cut	6	6	6	6	6	6	6	6	6	6	\$114,440



FLEET & EQUIPMENT- Cont'd					# of I	Fleet					UNIT COST
Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
Rotary mowers 72" and under	6	6	6	6	6	6	6	6	6	6	\$37,240
Sewer Flusher	1	1	1	1	1	1	1	1	1	1	\$550,465
Sidewalk Tractors Articulated	3	3	3	3	3	2	3	3	3	3	\$157,020
Sidewalk Grinder	1	1	1	1	1	3	3	3	3	3	\$27,600
Single Axle Dump Trucks	5	5	5	5	5	4	4	4	4	4	\$268,970
Sweeper	2	2	2	2	2	2	2	2	2	2	\$411,720
Tandem Dump Truck	2	2	2	2	2	3	3	3	3	3	\$310,100
Trailers	48	46	46	46	44	40	40	40	40	40	\$10,640
Air Compressor	1	1	1	1	1	1	1	1	1	1	\$33,600
Brush Chipper	3	3	3	3	3	3	3	3	3	3	\$55,150
Compact Sidewalk Tractor	6	6	6	6	6	3	3	3	3	3	\$53,320
Excavator Vacuum	1	1	1	1	1	1	1	1	1	1	\$95,000
Forklift	3	3	3	3	3	4	4	4	4	4	\$34,205
Parks Compactor Truck	2	2	2	2	2	2	2	2	2	2	\$153,450
Flatbed (>8,000 KG RGVW)	15	15	15	15	13	12	12	12	12	12	\$94,650
Stump Cutter	2	2	2	2	2	2	2	2	2	2	\$51,285
Top Dressers	4	4	4	4	4	4	4	4	4	4	\$28,220
Sidewalk Ploughs	24	26	28	30	30	32	33	33	33	33	\$57,910
Sidewalk Flatbeds	8	8	8	8	8	8	10	10	10	10	\$77,000
Sander / Plough Trucks	19	20	21	22	22	22	24	24	24	24	\$301,100
Grader	40	40	41	42	42	44	44	46	46	46	\$535,000
Loaders	28	35	36	41	41	42	44	44	46	46	\$291,430
Windrow Trucks	8	8	10	12	13	15	15	19	22	22	\$90,230
Loaders with Plow Wing Combination	2	2	2	2	2	2	2	2	2	2	\$300,000
Aerator	3	3	3	3	3	3	3	3	3	3	\$27,210
Cold Planer	1	1	1	1	1	1	1	1	1	1	\$26,210
Drive Broom	1	1	1	1	1	1	1	1	1	1	\$11,060
Flusher Washer	1	1	1	1	1	1	1	1	1	1	\$5,670
Generator	1	1	1	1	1	1	1	1	1	1	\$61,000
Hitch Disc	1	1	1	1	1	1	1	1	1	1	\$15,040
Lawn Roller	2	2	2	2	2	2	2	2	2	2	\$8,180
Leaf Vacuum	2	2	2	2	2	2	2	2	2	2	\$34,700
Loader	1	1	1	1	1	1	1	1	1	1	\$60,360
Over Seeder	5	5	5	5	5	5	5	5	5	5	\$20,646
Sander	1	1	1	1	1	1	1	1	1	1	\$4,900
Snowblower Rear Mount	2	2	2	2	2	2	2	2	2	2	\$8,740
Stacker	1	1	1	1	1	1	1	1	1	1	\$90,140
Turf Tiller	2	2	2	2	2	2	2	2	2	2	\$33,080
Valve Operator	7	7	7	7	7	7	7	7	7	7	\$23,600
Weed Sprayer	1	1	1	1	1	1	1	1	1	1	\$9,860
Misc < \$5,000	513	513	513	513	513	513	513	513	513	513	\$1,160
Total (#)	1,084	1,039	1,047	1,064	1,066	1,052	1,060	1,069	1,075	1,079	
Total (\$000)	\$60,782.0	\$61,179.8	\$62,845.4	\$65,705.8	\$65,766.7	\$66,607.5	\$68,161.5	\$69,766.6	\$70,899.5	\$71,060.9	



TABLE B.6-1

CITY OF MARKHAM

CALCULATION OF SERVICE LEVELS

PUBLIC WORKS

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Historical Population	306,973	312,329	317,779	323,324	328,966	333,938	338,985	344,109	349,310	354,589
Historical Employment	135,104	137,357	139,685	142,092	144,582	147,517	150,539	153,654	156,862	160,210
Total Historical Population & Employment	442,077	449,686	457,464	465,416	473,548	481,455	489,524	497,763	506,172	514,800

INVENTORY SUMMARY (\$000)

Buildings	\$20,721.4	\$20,721.4	\$20,721.4	\$20,721.4	\$20,721.4	\$20,721.4	\$20,721.4	\$22,856.2	\$22,062.9	\$30,761.6
Land	\$42,146.5	\$42,146.5	\$42,146.5	\$42,146.5	\$42,146.5	\$42,146.5	\$42,146.5	\$42,146.5	\$58,624.2	\$58,624.2
Furniture & Equipment	\$1,211.8	\$1,211.8	\$1,211.8	\$1,211.8	\$1,211.8	\$1,608.3	\$1,608.3	\$1,716.5	\$1,716.5	\$2,641.5
Fleet & Equipment	\$60,782.0	\$61,179.8	\$62,845.4	\$65,705.8	\$65,766.7	\$66,607.5	\$68,161.5	\$69,766.6	\$70,899.5	\$71,060.9
Total (\$000)	\$124,861.6	\$125,259.5	\$126,925.1	\$129,785.5	\$129,846.4	\$131,083.7	\$132,637.7	\$136,485.8	\$153,303.1	\$163,088.2

SERVICE LEVEL (\$/pop & emp)

											Level
Buildings	\$46.87	\$46.08	\$45.30	\$44.52	\$43.76	\$43.04	\$42.33	\$45.92	\$43.59	\$59.75	\$46.12
Land	\$95.34	\$93.72	\$92.13	\$90.56	\$89.00	\$87.54	\$86.10	\$84.67	\$115.82	\$113.88	\$94.88
Furniture & Equipment	\$2.74	\$2.69	\$2.65	\$2.60	\$2.56	\$3.34	\$3.29	\$3.45	\$3.39	\$5.13	\$3.18
Fleet & Equipment	\$137.49	\$136.05	\$137.38	\$141.18	\$138.88	\$138.35	\$139.24	\$140.16	\$140.07	\$138.04	\$138.68
Total (\$/pop & emp)	\$282.44	\$278.55	\$277.45	\$278.86	\$274.20	\$272.27	\$270.95	\$274.20	\$302.87	\$316.80	\$282.86

CITY OF MARKHAM

CALCULATION OF MAXIMUM ALLOWABLE PUBLIC WORKS

10-Year Funding Envelope Calculation

10 Year Average Service Level 2012 - 2021\$282.86Net Population & Employment Growth 2022 - 2031145,660Maximum Allowable Funding Envelope\$41,201,500



Average

Service

CITY OF MARKHAM DEVELOPMENT-RELATED CAPITAL PROGRAM PUBLIC WORKS

		1		Gross	G	rants/		Net	Ine	ligible Cos	sts		Total				DC E	ligible	Costs		
Project Descr	iption	Timing		Project	Subsid	lies/Other	r	Municipal	R	eplacemei	nt	1	DC Eligible		Prior		Available		2022-	C	Other Dev.
				Cost	Rec	overies		Cost	&	BTE Share	es		Costs		Growth	DO	C Reserves		2031	Re	elated Costs
6.0 PUBLIC WORK	S																				
6.1 Recov	very of Past Commitments																				
6.1.1	Recovery of negative reserve fund balance	2022	\$	2,347,898	\$	-	\$	2,347,898	0%	\$	-	\$	2,347,898	\$	-	\$	-	\$	2,347,898	\$	-
	Subtotal Recovery of Past Commitments		\$	2,347,898	\$	-	\$	2,347,898		\$	-	\$	2,347,898	\$	-	\$	-	\$	2,347,898	\$	-
	Works Buildings	0005		~~ ~~ ~~~																	
6.2.1	Garage / Office	2025	\$	28,430,878	\$	-	\$		0%	\$	-	\$	28,430,878	\$	-	\$	-	\$	-	\$	28,430,878
6.2.2	Decanting Dome	2025	\$	4,779,172	\$	-	\$		0%	\$	-	\$	4,779,172	\$	-	\$	-	\$	-	\$	4,779,172
6.2.3	Weather Protected Storage	2025	\$	885,292	\$	-	<u> </u>	0001202	0%	\$	-	\$	885,292	\$	-	\$	-	\$		\$	885,292
	Subtotal		\$	34,095,342	\$	-	\$	34,095,342		\$	-	\$	34,095,342	\$	-	\$	-	\$	-	\$	34,095,342
6.3 Land f	or Public Works																				
6.3.1	Works Yard - Expansion	2023	\$	60,904,619	\$	-	\$	60,904,619.0	0%	\$	-	\$	60,904,619	\$	-	\$	-	\$	33,097,289	\$	27,807,330
6.3.2	Land Development / Pavement	2024	\$	2,755,746	\$	-	\$		0%	\$	-	\$	2,755,746	\$	-	\$	-	\$	2,755,746	\$	-
	Subtotal Land for Public Works		\$	63,660,365	\$	-	\$	63,660,365.0		\$	-	\$	63,660,365.0	\$	-	\$	-	\$	35,853,035	\$	27,807,329.8
6.4 Furniti 6.4.1	Ire & Equipment Works Yard - Expansion	2025	5	285,560	w.		5	285,560	0%	5	-	~	285,560	w.	-	~		~	285,560	\$	
0.4.1	Subtotal Furniture & Equipment	2023	ŝ	285,560	0		\$		070	\$		\$	285,560.0	\$		\$		ŝ	285,560	\$	
	Subtotal Furniture & Equipment		э	280,000	Э	-	Э	280,000.0		ъ	-	Ф	280,000.0	Э	-	Э	-	3	285,500	Э	-
6.5 Fleet																					
6.5.1	1 Ton Flat Bed	2022	\$	49,500	\$	-	\$	49,500	0%	\$	-	\$	49,500	\$	-	\$	-	\$	49,500	\$	-
6.5.2	Brush Chipper	2022	\$	55,154	\$	-	\$	55,154	0%	\$	-	\$	55,154	\$	-	\$	-	\$	55,154	\$	-
6.5.3	Mott Mowers	2022	\$	10,857	\$	-	\$	10,857	0%	\$	-	\$	10,857	\$	-	\$	-	\$	10,857	\$	-
6.5.4	Rotary Mower	2022	\$	72,776	\$	-	\$	72,776	0%	\$	-	\$	72,776	\$	-	\$	-	\$	72,776	\$	-
6.5.5	Sidewalk Flatbed	2022	\$	77,000	\$	-	\$	77,000	0%	\$	-	\$	77,000	\$	-	\$	-	\$	77,000	\$	-
6.5.6	Utility Truckster	2022	\$	24,788	\$	-	\$	24,788	0%	\$	-	\$	24,788	\$	-	\$	-	\$	24,788	\$	-
6.5.7	Windrow Truck	2022	\$	90,230	\$	-	\$	90,230	0%	\$	-	\$	90,230	\$	-	\$	-	\$	90,230	\$	-
6.5.8	Articulating Flail Mower	2023	\$	28,611	\$	-	\$	28,611	0%	\$	-	\$	28,611	\$	-	\$	-	\$	28,611	\$	-
6.5.9	Forklift	2023	\$	34,205	\$	-	\$	34,205	0%	\$	-	\$	34,205	\$	-	\$	-	\$	34,205	\$	-
6.5.10	Loader	2023	\$	291,427	\$	-	\$	291,427	0%	\$	-	\$	291,427	\$	-	\$	-	\$	291,427	\$	-
6.5.11	Sidewalk Flatbed	2023	\$	77,000	\$	-	\$	77,000	0%	\$	-	\$	77,000	\$	-	\$	-	\$	77,000	\$	-
6.5.12	Trailers	2023	\$	10,638	\$	-	\$	10,638	0%	\$	-	\$	10,638	\$	-	\$	-	\$	10,638	\$	-
6.5.13	Windrow Truck	2023	\$	90,230	\$	-	\$	90,230	0%	\$	-	\$	90,230	\$	-	\$	-	\$	90,230	\$	-
6.5.14	Zero Turn Mower	2023	\$	19,269	\$	-	\$	19,269	0%	\$	-	\$	19,269	\$	-	\$	-	\$	19,269	\$	-
6.5.15	Zero Turn Mower	2023	\$	19,269	\$	-	\$	19,269	0%	\$	-	\$	19,269	\$	-	\$	-	\$	19,269	\$	-
6.5.16	Grader	2024	\$	535,000	\$	-	\$	535,000	0%	\$	-	\$	535,000	\$	-	\$	-	\$	535,000	\$	-
6.5.17	Loader	2024	\$	291,427	\$	-	\$	291,427	0%	\$	-	\$	291,427	\$	-	\$	-	\$	291,427	\$	-
6.5.18	Sidewalk Flatbed	2024	\$	77,000	\$	-	\$	77,000	0%	\$	-	\$	77,000	\$	-	\$	-	\$	77,000	\$	-
6.5.19	Trailers	2024	\$	10,638	\$	-	\$	10,638	0%	\$	-	\$	10,638	\$	-	\$	-	\$	10,638	\$	-
6.5.20	Windrow Truck	2024	\$	90,230	\$	-	\$	90,230	0%	\$	-	\$	90,230	\$	-	\$	-	\$	90,230	\$	-
6.5.21	Loader	2025	\$	291,427	\$	-	\$		0%	\$	-	\$	291,427	\$	-	\$	-	\$	291,427	\$	-
6.5.22	Sander / Plough Trucks	2025	\$	301,100	\$	-	\$		0%	\$	-	\$	301,100	\$	-	\$	-	\$	301,100	\$	-
6.5.23	Sidewalk Flatbed	2025	\$	77,000	\$	-	\$	77,000	0%	\$	-	\$	77,000	\$	-	\$	-	\$	77,000	\$	-



CITY OF MARKHAM DEVELOPMENT-RELATED CAPITAL PROGRAM PUBLIC WORKS

		Gross	Grants/	Net	Ine	ligible Costs		Total	DC Eligible Costs				
Project Description	Timing	Project	Subsidies/Other	Municipal	R	eplacement		DC Eligible	Prior	Available	2022-		Other Dev.
		Cost	Recoveries	Cost	&	BTE Shares		Costs	Growth	DC Reserves	2031	F	Related Cost
6.5.24 Windrow Truck	0005		•	* • • • • • • • • • • • • • • • • • • •	00/	<u>^</u>			•	^	\$ 90.2		
	2025	\$ 90,230		\$ 90,230		\$ -	\$		\$ -	\$ -	+,-	30 \$	-
6.5.25 Full Size 4WD Pick-Up	2026	\$ 45,262	\$ -	\$ 45,262		\$ -	\$,	ъ -	\$ -	\$ -	\$,
6.5.26 Full Size Van	2026	\$ 38,691	\$ -	\$ 38,691	0%	\$ -	\$		\$ -	\$ -	\$ -	\$	38,6
6.5.27 Grader	2026	\$ 535,000	\$ -	\$ 535,000		\$ -	\$,	\$ -	\$ -	s -	\$	535,0
6.5.28 Sidewalk Flatbed	2026	\$ 77,000	\$ -	\$ 77,000		\$ -	\$		\$ -	\$ -	\$ -	\$	77,0
6.5.29 Windrow Truck	2026	\$ 90,230	\$ -	\$ 90,230		\$ -	\$		\$ -	\$ -	\$ -	\$	90,2
6.5.30 Loader	2027	\$ 291,427	\$ -	\$ 291,427	0%	\$ -	\$,	\$ -	\$ -	\$ -	\$	291,4
6.5.31 Sidewalk Flatbed	2027	\$ 77,000	\$ -	\$ 77,000		\$ -	\$		\$ -	\$ -	\$ -	\$	77,0
6.5.32 Tandem Dump Truck	2027	\$ 310,101	\$ -	\$ 310,101	0%	\$ -	\$		\$ -	\$ -	\$ -	\$	310,1
6.5.33 Trailers	2027	\$ 10,638	\$ -	\$ 10,638		\$ -	\$		\$ -	\$ -	\$ -	\$	10,6
6.5.34 Windrow Truck	2027	\$ 90,230	\$ -	\$ 90,230	0%	\$ -	\$	\$ 90,230	\$ -	\$ -	\$ -	\$	90,2
6.5.35 Zero Turn Mower	2027	\$ 19,269	\$ -	\$ 19,269	0%	\$ -	\$	\$ 19,269	\$ -	\$ -	\$ -	\$	19,2
6.5.36 Zero Turn Mower	2027	\$ 19,269	\$ -	\$ 19,269	0%	\$ -	\$	\$ 19,269	\$ -	\$ -	\$ -	\$	19,2
6.5.37 Grader	2028	\$ 535,000	\$ -	\$ 535,000	0%	\$ -	\$	\$ 535,000	\$ -	\$ -	\$ -	\$	535,0
6.5.38 Loader	2028	\$ 291,427	\$ -	\$ 291,427	0%	\$ -	\$	\$ 291,427	\$ -	\$ -	\$ -	\$	291,4
6.5.39 Sander / Plough Trucks	2028	\$ 301,100	\$ -	\$ 301,100	0%	\$ -	\$	\$ 301,100	\$ -	\$ -	\$ -	\$	301,1
6.5.40 Sidewalk Flatbed	2028	\$ 77,000	\$ -	\$ 77,000	0%	\$ -	\$	\$ 77,000	\$ -	\$ -	\$ -	\$	77,0
6.5.41 Windrow Truck	2028	\$ 90,230	\$ -	\$ 90,230	0%	\$ -	\$	90,230	\$ -	\$ -	\$ -	\$	90,2
6.5.42 Articulating Loader	2029	\$ 267,215	\$ -	\$ 267,215	0%	\$ -	\$	267,215	\$ -	\$ -	\$ -	\$	267,2
6.5.43 Loader	2029	\$ 291,427	\$ -	\$ 291,427	0%	\$ -	ŝ	291,427	\$ -	\$ -	s -	\$	291,4
6.5.44 Rotary Mower	2029	\$ 72,776	\$ -	\$ 72,776	0%	\$ -	ŝ	\$ 72,776	\$ -	\$ -	\$ -	\$	72,7
6.5.45 Sidewalk Flatbed	2029	\$ 77.000	\$ -	\$ 77.000		\$ -	ŝ		\$ -	\$ -	\$ -	\$	77,0
6.5.46 Trailers	2029	\$ 10.638	\$ -	\$ 10.638	0%	\$ -	ŝ	10,638	\$ -	\$ -	\$ -	\$	10,6
6.5.47 Windrow Truck	2029	\$ 90,230	\$ -	\$ 90,230	0%	\$ -	ŝ		\$ -	\$ -	\$ -	\$	90,2
6.5.48 Bucket Truck	2030	\$ 244,088	\$ -	\$ 244,088		\$ -	ŝ		\$ -	\$ -	s -	\$	244,0
6.5.49 Grader	2030	\$ 535,000	\$ -	\$ 535.000		\$ -	ŝ		\$ -	\$ -	s -	\$	535.0
6.5.50 Mott Mowers	2030	\$ 10,857	\$ -	\$ 10,857	0%	\$ -	ŝ		\$ -	\$ -	s -	\$	10,8
6.5.51 Sidewalk Flatbed	2030	\$ 77.000	\$ -	\$ 77.000		\$ -	9	,	\$ -	\$ -	\$ -	\$	77.
6.5.52 Utility Truckster	2030	\$ 24,788	\$ -	\$ 24,788		\$ -	9	,	\$ _	\$ -	Š.	\$	24,
6.5.53 Windrow Truck	2030	\$ 90,230	s -	\$ 90,230		\$ 5 -	3	5 90,230	ş -	\$ -	s -	\$	24, 90,
Subtotal Fleet		\$ 7,405,129	\$ -	\$ 7,405,129		\$ -	\$		\$ -	\$ -	\$ 2,715,0	56	4,690,
TOTAL PUBLIC WORKS	1	\$ 107,794,294	\$ -	\$ 107,794,294		\$ -	\$	\$ 107,794,294	\$ -	\$ -	\$ 41,201,5	00 \$	66,592,

Residential Development Charge Calculation		
Residential Share of 2022 - 2031 DC Eligible Costs	61.9%	\$25,510,815
10-Year Growth in Population in New Units		90,381
Unadjusted Development Charge Per Capita		\$282.26
Non-Residential Development Charge Calculation		
Non-Residential Share of 2022 - 2031 DC Eligible Costs	38.1%	\$15,690,684
10-Year Growth in Square Metres		2,550,244
Unadjusted Development Charge Per Square Metre		\$6.15
Non-Residential Development Charge Calculation		
Retail Commercial		
Non-Residential Share of 2017 - 2026 DC Eligible Costs	11.0%	\$ 4,542,107
10-Year Growth in Square Metres		627,176
Unadjusted Development Charge Per Square Metre		\$7.24
Industrial/Office/Institutional		
Non-Residential Share of 2017 - 2026 DC Eligible Costs	26.8%	\$ 11,032,113
10-Year Growth in Square Metres		1,890,059
Unadjusted Development Charge Per Square Metre		\$5.84
Mixed-Use		
Non-Residential Share of 2017 - 2026 DC Eligible Costs	0.3%	\$ 116,464
10-Year Growth in Square Metres		33,009
Unadjusted Development Charge Per Square Metre		\$3.53

2022 - 2031 Net Funding Env	\$41,201,500
Reserve Fund Balance	(\$2,347,898)



TABLE B.6-3

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE PUBLIC WORKS RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

PUBLIC WORKS	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
OPENING CASH BALANCE	(\$1,453.75)	\$866.93	(\$18,161.59)	(\$18,735.60)	(\$17,441.89)	(\$15,239.32)	(\$12,805.54)	(\$10,087.99)	(\$7,064.85)	(\$3,711.00)	
2022 - 2031 RESIDENTIAL FUNDING REQUIREMENTS											
- Prior Growth (Funding from DC Reserve Balance)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
- Public Works: Non Inflated	\$235.5	\$20,846.2	\$2,328.1	\$647.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$24,057.1
- Public Works: Inflated	\$235.5	\$21,263.2	\$2,422.2	\$686.8	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$24,607.7
NEW RESIDENTIAL DEVELOPMENT											
- Population Growth in New Units	8,094	8,301	8,514	8,733	8,955	9,085	9,315	9,549	9,792	10,043	90,381
REVENUE											
- DC Receipts: Inflated	\$2,594.8	\$2,714.4	\$2,839.7	\$2,971.0	\$3,107.5	\$3,215.7	\$3,363.0	\$3,516.4	\$3,678.0	\$3,847.8	\$31,848.4
INTEREST											
- Interest on Opening Balance	(\$80.0)	\$30.3	(\$998.9)	(\$1,030.5)	(\$959.3)	(\$838.2)	(\$704.3)	(\$554.8)	(\$388.6)	(\$204.1)	(\$5,728.2)
- Interest on In-year Transactions	\$41.3	(\$510.1)	\$7.3	\$40.0	\$54.4	\$56.3	\$58.9	\$61.5	\$64.4	\$67.3	(\$58.8)
TOTAL REVENUE	\$2,556.2	\$2,234.7	\$1,848.2	\$1,980.6	\$2,202.6	\$2,433.8	\$2,717.6	\$3,023.1	\$3,353.8	\$3,711.0	\$26,061.4
CLOSING CASH BALANCE	\$866.9	(\$18,161.6)	(\$18,735.6)	(\$17,441.9)	(\$15,239.3)	(\$12,805.5)	(\$10,088.0)	(\$7,064.8)	(\$3,711.0)	\$0.0	

2022 Adjusted Charge Per Capita

\$320.59

Allocation of Capital Program Residential Sector	61.9%
Residential Sector	01.9%
Non-Residential Sector	38.1%
Rates for 2022	
Inflation Rate:	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



TABLE B.6-3

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE PUBLIC WORKS RETAIL NON-RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

PUBLIC WORKS	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
OPENING CASH BALANCE	(\$258.84)	\$102.77	(\$3,330.57)	(\$3,471.66)	(\$3,271.70)	(\$2,898.97)	(\$2,466.04)	(\$1,966.78)	(\$1,394.26)	(\$741.35)	
2022 - 2031 NON-RESIDENTIAL FUNDING REQUIREMENTS											
- Prior Growth (Funding from DC Reserve Balance)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
- Public Works: Non Inflated	\$41.9	\$3,711.6	\$414.5	\$115.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$4,283.3
- Public Works: Inflated	\$41.9	\$3,785.8	\$431.3	\$122.3	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$4,381.3
NON-RESIDENTIAL SPACE GROWTH - RETAIL											
- Growth in Square Metres	49,648	52,174	54,834	57,608	60,572	63,650	66,880	70,300	73,872	77,638	627,176.00
REVENUE											
- DC Receipts: Inflated	\$411.3	\$440.9	\$472.6	\$506.5	\$543.2	\$582.2	\$624.0	\$669.0	\$717.0	\$768.7	\$5,735.3
INTEREST											
- Interest on Opening Balance	(\$14.2)	\$3.6	(\$183.2)	(\$190.9)	(\$179.9)	(\$159.4)	(\$135.6)	(\$108.2)	(\$76.7)	(\$40.8)	(\$1,085.4)
- Interest on In-year Transactions	\$6.5	(\$92.0)	\$0.7	\$6.7	\$9.5	\$10.2	\$10.9	\$11.7	\$12.5	\$13.5	(\$9.8)
TOTAL REVENUE	\$403.5	\$352.5	\$290.2	\$322.2	\$372.7	\$432.9	\$499.3	\$572.5	\$652.9	\$741.3	\$4,640.1
CLOSING CASH BALANCE	\$102.8	(\$3,330.6)	(\$3,471.7)	(\$3,271.7)	(\$2,899.0)	(\$2,466.0)	(\$1,966.8)	(\$1,394.3)	(\$741.3)	\$0.0	
											ŀ

2022 Adjusted Charge Per Square Metre	
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\$8.28

Allocation of Capital Program	
Retail Sector	11.0%
Industrial/Office/Institutional Sector	26.8%
Mixed-Use	0.3%
Rates for 2022	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



TABLE B.6-3

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE PUBLIC WORKS INDUSTRIAL/OFFICE/INSTITUTIONAL NON-RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

PUBLIC WORKS	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
OPENING CASH BALANCE	(\$628.67)	\$342.58	(\$7,916.14)	(\$8,191.38)	(\$7,655.58)	(\$6,721.64)	(\$5,665.78)	(\$4,477.71)	(\$3,145.92)	(\$1,657.47)	
2022 - 2031 NON-RESIDENTIAL FUNDING REQUIREMENTS											
- Prior Growth (Funding from DC Reserve Balance) - Public Works: Non Inflated - Public Works: Inflated	\$0.0 \$101.8 \$101.8	\$0.0 \$9,014.9 \$9,195.2	\$0.0 \$1,006.8 \$1,047.5	\$0.0 \$279.9 \$297.0	\$0.0 \$0.0 \$0.0	\$0.0 \$0.0 \$0.0	\$0.0 \$0.0 \$0.0	\$0.0 \$0.0 \$0.0	\$0.0 \$0.0 \$0.0	\$0.0 \$0.0 \$0.0	\$0.0 \$10,403.4 \$10,641.5
NON-RESIDENTIAL SPACE GROWTH - I.O.I. - Growth in Square Metres	164,145	169,120	174,338	179,648	185,208	191,032	197,025	203,257	209,805	216,481	1,890,059
REVENUE - DC Receipts: Inflated	\$1,090.4	\$1,145.9	\$1,204.9	\$1,266.4	\$1,331.7	\$1,401.0	\$1,473.9	\$1,550.9	\$1,632.9	\$1,718.6	\$13,816.5
INTEREST - Interest on Opening Balance - Interest on In-year Transactions	(\$34.6) \$17.3	\$12.0 (\$221.4)	(\$435.4) \$2.8	(\$450.5) \$17.0	(\$421.1) \$23.3	(\$369.7) \$24.5	(\$311.6) \$25.8	(\$246.3) \$27.1	(\$173.0) \$28.6	(\$91.2) \$30.1	(\$2,521.3) (\$24.9)
TOTAL REVENUE	\$1,073.1	\$936.5	\$772.2	\$832.8	\$933.9	\$1,055.9	\$1,188.1	\$1,331.8	\$1,488.5	\$1,657.5	\$11,270.2
CLOSING CASH BALANCE	\$342.6	(\$7,916.1)	(\$8,191.4)	(\$7,655.6)	(\$6,721.6)	(\$5,665.8)	(\$4,477.7)	(\$3,145.9)	(\$1,657.5)	(\$0.0)	

2022 Adjusted Charge Per Square Metre	\$6.64
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Allocation of Capital Program	
Retail Sector	11.0%
Industrial/Office/Institutional Sector	26.8%
Mixed-Use	0.3%
Rates for 2022	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



TABLE B.6-3

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE PUBLIC WORKS MIXED-USE NON-RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

PUBLIC WORKS	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
OPENING CASH BALANCE	(\$6.64)	\$2.64	(\$85.40)	(\$89.02)	(\$83.89)	(\$74.33)	(\$63.23)	(\$50.43)	(\$35.75)	(\$19.01)	
2022 - 2031 NON-RESIDENTIAL FUNDING REQUIREMENTS											
- Prior Growth (Funding from DC Reserve Balance)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
- Public Works: Non Inflated	\$1.1	\$95.2	\$10.6	\$3.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$109.8
- Public Works: Inflated	\$1.1	\$97.1	\$11.1	\$3.1	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$112.3
NON-RESIDENTIAL SPACE GROWTH - MIXED-USE											
- Growth in Square Metres	2,613	2,746	2,886	3,032	3,188	3,350	3,520	3,700	3,888	4,086	33,009
REVENUE											
- DC Receipts: Inflated	\$10.5	\$11.3	\$12.1	\$13.0	\$13.9	\$14.9	\$16.0	\$17.2	\$18.4	\$19.7	\$147.1
INTEREST											
- Interest on Opening Balance	(\$0.4)	\$0.1	(\$4.7)	(\$4.9)	(\$4.6)	(\$4.1)	(\$3.5)	(\$2.8)	(\$2.0)	(\$1.0)	(\$27.8)
- Interest on In-year Transactions	\$0.2	(\$2.4)	\$0.0	\$0.2	\$0.2	\$0.3	\$0.3	\$0.3	\$0.3	\$0.3	(\$0.3)
TOTAL REVENUE	\$10.3	\$9.0	\$7.4	\$8.3	\$9.6	\$11.1	\$12.8	\$14.7	\$16.7	\$19.0	\$119.0
CLOSING CASH BALANCE	\$2.6	(\$85.4)	(\$89.0)	(\$83.9)	(\$74.3)	(\$63.2)	(\$50.4)	(\$35.7)	(\$19.0)	\$0.0	

2022 Adjusted Charge Per Square Metre	
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\$4.04

Allocation of Capital Program	
Retail Sector	11.0%
Industrial/Office/Institutional Sector	26.8%
Mixed-Use	0.3%
Rates for 2022	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



Appendix B.7 Waste Diversion



Appendix B.7: Waste Diversion

The City of Markham provides Waste Diversion Services for its residents; this includes both ground-related dwelling and multi-residential buildings. The City does not provide collection services to non-residential users.

As of January 1, 2016, the *Development Charges Act* permits the inclusion of capital costs associated with waste diversion operations, and specifically excludes waste incineration and landfill activities. These shares of facilities, land, vehicles and equipment have been included from the development charges calculation are those related to waste diversion operations.

Table B.7-12012 - 2021 Historical Service Levels

In 2021, the total square footage the City's existing Waste Diversion depots and sheds that relate to eligible operations of waste diversion activities was 12,560 square feet with a replacement value of \$4.93 million. The land related to these buildings totals 0.62 hectares and is valued at \$8.48 million. In total, 40 vehicles are used to provide DC eligible waste diversion services in the City of Markham, these vehicles add a value of \$10.00 million to the inventory. Finally, the waste diversion-related furniture and equipment totals \$1.03 million.

The total value of the inventory of capital assets for Waste Diversion Services in 2021 was \$24.44 million resulting in a ten-year historical average service level of \$73.98 per capita. When multiplied by the ten-year net population growth (90,070), the historical service level (\$73.98) yields a tenyear maximum allowable funding envelope of \$6.66 million.



Table B.7-22022 – 2031 Development-Related CapitalProgram and Calculation of the UnadjustedDevelopment Charges

The ten-year development-related capital plan for Waste Diversion Services includes a provision for two new 2,100 square foot depots: one in the FUA by 2023 and the other in Cornell by 2026. Building costs for the depots amount to \$1.59 million; the 0.30 hectares of land which the new depots will occupy is valued at \$4.11 million and the furniture and equipment associated with the new facilities amounts to \$0.45 million. The City of Markham also plans to utilize 10 additional waste-related fleet between 2025 and 2030.

No grants, subsidies or replacement shares have been identified, as such, the total Waste Diversion development-related capital program (\$9.25 million) is carried forward to the net municipal costs.

The existing Waste Diversion DC reserve fund balance of \$0.52 million and the other development-related shares (share of cost above the 10-year historic maximum funding envelope), totaling \$2.07 million, reduces the 2021 – 2031 DC eligible costs to \$6.66 million. This amount is allocated entirely to the residential sector and, when divided by the forecasted 10-year population growth in new units (90,380), yields an unadjusted development charge of \$73.73 per capita.

Table B.7-3Cash Flow Analysis

After cash flow and reserve fund analysis, the residential charge increases to \$80.47 per capita.

The following table summarizes the calculation of the waste diversion development charge.

WASTE DIVERSION SUMMARY													
Unadjusted Adjusted Adjusted													
10-year Hist.	20	022 - 2031		Developm	ent Charge			Development Charge					
Service Level	Development-F	Related Capital Program	Residential	Retail	1.0.1.	Mixed-Use	Residential	Retail	I.O.I.	Mixed-Use			
per pop & emp	Total	Net DC Recoverable	\$/capita	\$/sq.m	\$/sq.m	\$/sq.m	\$/capita	\$/sq.m	\$/sq.m	\$/sq.m			
\$73.98	\$9,254,012	\$6,663,427	\$73.73	\$0.00	\$0.00	\$0.00	\$80.47	\$0.00	\$0.00	\$0.00			



TABLE B.7-1

CITY OF MARKHAM INVENTORY OF CAPITAL ASSETS WASTE DIVERSION

BUILDINGS					# of Squ	are Feet					UNIT COST
Facility Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/sq.ft.)
Markham Depot - 6041 Hwy 7 East, Markham	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	\$379
Unionville Depot - 139A Unionville Main Street, Markham	1,575	1,575	1,575	1,575	1,575	1,575	1,575	1,575	1,575	1,575	\$379
Thornhill Depot - 5 Green Lane, Thornhill	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	\$379
Milliken Depot - 7660 Kennedy Road, Markham	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	\$379
8100 Warden Sheds	4,800	4,800	4,800	4,800	4,800	4,800	4,800	4,800	4,800	4,800	\$379
8100 Warden - Office Space	735	735	735	735	735	735	735	735	735	735	\$615
Total (#)	12,560	12,560	12,560	12,560	12,560	12,560	12,560	12,560	12,560	12,560	
Total (\$000)	\$4,933.7	\$4,933.7	\$4,933.7	\$4,933.7	\$4,933.7	\$4,933.7	\$4,933.7	\$4,933.7	\$4,933.7	\$4,933.7	

LAND					# of He	ectares					UNIT COST
Facility Name	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/ha)
Markham Depot	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	\$13,714,000
Unionville Depot	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	\$13,714,000
Thornhill Depot	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	\$13,714,000
Milliken Depot	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	\$13,714,000
8100 Warden	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	\$13,714,000
Total (ha)	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	
Total (\$000)	8,479.84	8,479.84	8,479.84	8,479.84	8,479.84	8,479.84	8,479.84	8,479.84	8,479.84	8,479.84	



TABLE B.7-1

CITY OF MARKHAM INVENTORY OF CAPITAL ASSETS WASTE DIVERSION

VEHICLES					# of Veł	nicles					UNIT COST
Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
Single Stream Rear Loaders	10	10	10	10	10	10	10	10	10	10	\$270,000
Dual Stream Rear Loaders	12	12	12	12	12	12	12	12	12	12	\$320,000
Top Loaders	7	7	7	7	7	7	7	7	7	7	\$325,000
Front End Loader	1	1	1	1	1	1	1	1	1	1	\$360,000
Single stream Side Load	1	1	1	1	1	1	1	1	1	1	\$269,000
Large Truck	1	1	1	1	1	1	1	1	1	1	\$27,060
Small Truck	1	1	1	1	1	1	1	1	1	1	\$16,240
Fork lift	2	2	2	2	2	2	2	2	2	2	\$30,000
Pick-up Truck	4	4	4	4	4	4	4	4	4	4	\$50,000
Roll-Off Truck	1	1	1	1	1	1	1	1	1	1	\$265,000
Total (#)	40	40	40	40	40	40	40	40	40	40	
Total (\$000)	\$9,997.3	\$9,997.3	\$9,997.3	\$9,997.3	\$9,997.3	\$9,997.3	\$9,997.3	\$9,997.3	\$9,997.3	\$9,997.3	

FURNITURE & EQUIPMENT		Total Value of Furniture & Equipment (\$)											
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021			
Containers	\$572,783	\$572,783	\$572,783	\$572,783	\$572,783	\$572,783	\$572,783	\$572,783	\$572,783	\$572,783			
Other Equipment	\$455,157	\$455,157	\$455,157	\$455,157	\$455,157	\$455,157	\$455,157	\$455,157	\$455,157	\$455,157			
Total (\$000)	\$1,027.9	\$1,027.9	\$1,027.9	\$1,027.9	\$1,027.9	\$1,027.9	\$1,027.9	\$1,027.9	\$1,027.9	\$1,027.9			



APPENDIX B.7

TABLE B.7-1

CITY OF MARKHAM

CALCULATION OF SERVICE LEVELS

WASTE DIVERSION

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Historical Population	306,973	312,329	317,779	323,324	328,966	333,938	338,985	344,109	349,310	354,589

INVENTORY SUMMARY (\$000)

Buildings	\$4,933.7	\$4,933.7	\$4,933.7	\$4,933.7	\$4,933.7	\$4,933.7	\$4,933.7	\$4,933.7	\$4,933.7	\$4,933.7
Land	\$8,479.8	\$8,479.8	\$8,479.8	\$8,479.8	\$8,479.8	\$8,479.8	\$8,479.8	\$8,479.8	\$8,479.8	\$8,479.8
Vehicles	\$9,997.3	\$9,997.3	\$9,997.3	\$9,997.3	\$9,997.3	\$9,997.3	\$9,997.3	\$9,997.3	\$9,997.3	\$9,997.3
Furniture & Equipment	\$1,027.9	\$1,027.9	\$1,027.9	\$1,027.9	\$1,027.9	\$1,027.9	\$1,027.9	\$1,027.9	\$1,027.9	\$1,027.9
Total (\$000)	\$24,438.8	\$24,438.8	\$24,438.8	\$24,438.8	\$24,438.8	\$24,438.8	\$24,438.8	\$24,438.8	\$24,438.8	\$24,438.8

SERVICE LEVEL (\$/pop)

											Level
Buildings	\$16.1	\$15.8	\$15.5	\$15.3	\$15.0	\$14.8	\$14.6	\$14.3	\$14.1	\$13.9	\$14.94
Land	\$27.6	\$27.2	\$26.7	\$26.2	\$25.8	\$25.4	\$25.0	\$24.6	\$24.3	\$23.9	\$25.67
Vehicles	\$32.6	\$32.0	\$31.5	\$30.9	\$30.4	\$29.9	\$29.5	\$29.1	\$28.6	\$28.2	\$30.26
Furniture & Equipment	\$3.3	\$3.3	\$3.2	\$3.2	\$3.1	\$3.1	\$3.0	\$3.0	\$2.9	\$2.9	\$3.11
Total (\$/pop)	\$79.6	\$78.2	\$76.9	\$75.6	\$74.3	\$73.2	\$72.1	\$71.0	\$70.0	\$68.9	\$73.98

CITY OF MARKHAM

CALCULATION OF MAXIMUM ALLOWABLE

WASTE DIVERSION

10-Year Funding Envelope Calculation	
10 Year Average Service Level 2012 - 2021	\$73.98
Net Population 2022 - 2031	90,071
Maximum Allowable Funding Envelope	\$6,663,427



Average

Service

APPENDIX B.7 TABLE B.7-2

CITY OF MARKHAM DEVELOPMENT-RELATED CAPITAL PROGRAM WASTE DIVERSION

		Gross	Gi	rants/	Net	Ine	ligible	Costs	I	Total		DC I	Eligible	Costs	
Project Description	Timing	Project Cost		lies/Other overies	Municipal Cost		eplace: BTE SI			DC Eligible Costs	Prior Growth	Available C Reserves		2022- 2031	ther Dev. lated Costs
7.0 WASTE DIVERSION															
7.1 Waste Buildings															
7.1.1 New Depot - Future Urban Area (2,100 sq ft	2023	\$ 795,900	\$	-	\$ 795,900	0%	\$	-	\$	795,900	\$ -	\$ -	\$	795,900	\$ -
7.1.3 New Depot - Cornell (2,100 sq ft)	2026	\$ 795,900	\$	-	\$ 795,900	0%	\$	-	\$	795,900	\$ -	\$ -	\$	795,900	\$ -
Subtotal Waste Buildings		\$ 1,591,800	\$	-	\$ 1,591,800		\$	-	\$	1,591,800	\$-	\$ -	\$	1,591,800	\$ -
7.2 Land for Waste Buildings															
7.2.1 New Depot - Future Urban Area (0.15 Ha)	2022	\$ 2,057,100	\$	-	\$ 2,057,100	0%	\$	-	\$	2,057,100	\$ -	\$ 523,823	\$	1,533,277	\$ -
7.2.2 New Depot - Cornell (0.15 Ha)	2025	\$ 2,057,100	\$	-	\$ 2,057,100	0%	\$	-	\$	2,057,100	\$ -	\$ -	\$	2,057,100	\$ -
Subtotal Land for Waste Buildings		\$ 4,114,200	\$	-	\$ 4,114,200		\$	-	\$	4,114,200	\$-	\$ 523,823	\$	3,590,377	\$ -
7.3 Furniture & Equipment															
7.3.1 New Depot - Future Urban Area	2023	\$ 205,485	\$	-	\$ 205,485	0%	\$	-	\$	205,485	\$ -	\$ -	\$	205,485	\$ -
7.3.2 SMART Bins	2023	\$ 39,042	\$	-	\$ 39,042	0%	\$	-	\$	39,042	\$ -	\$ -	\$	39,042	\$ -
7.3.3 New Depot - Cornell	2026	\$ 205,485	\$	-	\$ 205,485	0%	\$	-	\$	205,485	5 -	\$ -	\$	205,485	\$ -
Subtotal Furniture & Equipment		\$ 450,012	\$	-	\$ 450,012		\$	-	\$	450,012	\$-	\$ -	\$	450,012	\$ -
7.4 Fleet															
7.4.1 Single Stream Top Loader (Curbside)	2025	\$ 325,000	\$	-	\$ 325,000	0%	\$	-	\$	325,000	\$ -	\$ -	\$	325,000	\$ -
7.4.2 Dual Stream Top Loader (Multi-residential)	2025	\$ 325,000	\$	-	\$ 325,000	0%	\$	-	\$	325,000	\$ -	\$ -	\$	325,000	\$ -
7.4.3 Dual Stream Rear Loader (Curbside)	2025	\$ 270,000	\$	-	\$ 270,000	0%	\$	-	\$	270,000	\$ -	\$ -	\$	270,000	\$ -
7.4.4 Single Stream Side Loader (Curbside)	2025	\$ 269,000	\$	-	\$ 269,000	0%	\$	-	\$	269,000	\$ -	\$ -	\$	111,237	\$ 157,763
7.4.5 Front End Loader (Multi-residential)	2025	\$ 360,000	\$	-	\$ 360,000	0%	\$	-	\$	360,000	\$ -	\$ -			\$ 360,000
7.4.6 Single Stream Top Loader (Curbside)	2030	\$ 325,000	\$	-	\$ 325,000	0%	\$	-	\$	325,000	\$ -	\$ -	\$	-	\$ 325,000
7.4.7 Dual Stream Top Loader (Multi-residential)	2030	\$ 325,000	\$	-	\$ 325,000	0%	\$	-	\$	325,000	\$ -	\$ -	\$	-	\$ 325,000
7.4.8 Dual Stream Rear Loader (Curbside)	2030	\$ 270,000	\$	-	\$ 270,000	0%	\$	-	\$	270,000	s -	\$ -	\$	-	\$ 270,000
7.4.9 Single Stream Side Loader (Curbside)	2030	\$ 269,000	\$	-	\$ 269,000	0%	\$	-	\$	269,000	S -	\$ -	\$	-	\$ 269,000
7.4.10 Front End Loader (Multi-residential)	2030	\$ 360,000	\$	-	\$ 360,000	0%	\$	-	\$	360,000	\$ -	\$ -	\$	-	\$ 360,000
Subtotal Fleet		\$ 3,098,000	\$	-	\$ 3,098,000		\$	-	\$	3,098,000	\$-	\$ -	\$	1,031,237	\$ 2,066,763
TOTAL WASTE DIVERSION		\$ 9,254,012	\$	-	\$ 9,254,012		\$	-	\$	9,254,012	\$-	\$ 523,823	\$	6,663,427	\$ 2,066,763

Residential Development Charge Calculation		
Residential Share of 2022 - 2031 DC Eligible Costs	100%	\$6,663,427
10-Year Growth in Population in New Units		90,381
Unadjusted Development Charge Per Capita		\$73.73
Non-Residential Development Charge Calculation		
Non-Residential Share of 2022 - 2031 DC Eligible Costs	0%	\$0
10-Year Growth in Square Metres		2,550,244
Unadjusted Development Charge Per Square Metre		\$0.00

2022 - 2031 Net Funding Envelope	\$6,663,427
Reserve Fund Balance	\$523,823



APPENDIX B.7

TABLE B.7-3

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE WASTE DIVERSION RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

WASTE DIVERSION	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
OPENING CASH BALANCE	\$523.82	(\$902.26)	(\$1,342.20)	(\$690.73)	(\$3,329.92)	(\$3,825.32)	(\$3,214.41)	(\$2,532.25)	(\$1,773.40)	(\$931.52)	
2022 - 2031 RESIDENTIAL FUNDING REQUIREMENTS											
- Prior Growth (Funding from DC Reserve Balance) - Waste Diversion : Non Inflated	\$523.8 \$1,533.3	\$0.0 \$1,040.4	\$0.0 \$0.0	0.0\$ \$3,088.3	\$0.0 \$1,001.4	\$0.0 \$0.0	\$0.0 \$0.0	\$0.0 \$0.0	\$0.0 \$0.0	\$0.0 \$0.0	\$523.8 \$6,663.4
- Waste Diversion : Inflated	\$2,057.1	\$1,061.2	\$0.0	\$3,277.4	\$1,083.9	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$7,479.6
NEW RESIDENTIAL DEVELOPMENT											
- Population Growth in New Units	8,094	8,301	8,514	8,733	8,955	9,085	9,315	9,549	9,792	10,043	90,381
REVENUE											
- DC Receipts: Inflated	\$651.3	\$681.4	\$712.8	\$745.8	\$780.0	\$807.2	\$844.2	\$882.7	\$923.3	\$965.9	\$7,994.5
INTEREST											
- Interest on Opening Balance	\$18.3	(\$49.6)	(\$73.8)	(\$38.0)	(\$183.1)	(\$210.4)	(\$176.8)	(\$139.3)	(\$97.5)	(\$51.2)	(\$1,001.5)
- Interest on In-year Transactions	(\$38.7)	(\$10.4)	\$12.5	(\$69.6)	(\$8.4)	\$14.1	\$14.8	\$15.4	\$16.2	\$16.9	(\$37.2)
TOTAL REVENUE	\$631.0	\$621.3	\$651.5	\$638.2	\$588.5	\$610.9	\$682.2	\$758.9	\$841.9	\$931.5	\$6,955.8
CLOSING CASH BALANCE	(\$902.3)	(\$1,342.2)	(\$690.7)	(\$3,329.9)	(\$3,825.3)	(\$3,214.4)	(\$2,532.3)	(\$1,773.4)	(\$931.5)	\$0.0	

2022 Adjusted Charge Per Capita

\$80.47

Allocation of Capital Program Residential Sector	100.0%
Residential Sector	100.0%
Non-Residential Sector	0.0%
Rates for 2022	
Inflation Rate:	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



Appendix C City-Wide Hard Services Technical Appendix



Appendix B: City-Wide Hard Services Technical Appendix

The Engineering Department is responsible for the design and construction of the City's network of public roads, its water distribution system, the sanitary sewage collection system and the storm water management infrastructure. This appendix provides an overview of the City-wide hard services included in the development charges calculation.

Other elements of required development-related infrastructure for the City are analysed and calculated on an area-specific basis for development charges purposes; these components are included in Appendix D. In addition, the City has reviewed and updated the applicable local service definitions, as discussed in the main body of the report.

As permitted under the *Development Charges Act, 1997 (DCA*), the Citywide hard services are planned for the period from 2022 – 2031 so that the development-related capital costs are apportioned over the longer-term development anticipated within the City's designated urban boundary, including the Future Urban Area (FUA).

The cost, quantum and timing of the projects identified in the forecast have been provided by the Engineering Department based on estimates prepared by City staff and various engineer consultants. The estimates include provision for engineering and contingencies.

Table C-1 Historical Service Levels

City-wide hard services include a range of engineering related infrastructure such as roads, storm water management, watermain infrastructure etc. In accordance with the *DCA*, the increase in need for service cannot exceed the ten-year historical average level of service unless a standard level of

service is required under another Act (O.Reg. 82/98 4(3)). For services such as stormwater management, water and wastewater related infrastructure, the projects identified in the City-wide hard capital program are required to achieve health and safety standards set out in relevant legislation including, but not limited to, the *Planning Act*, the *Ontario Water Resources Act* and the *Municipal Act*. As such, in accordance with section 4(3) of O.Reg. 82/98, the ten-year historical service level does not apply.

However, an analysis of the ten-year historical inventory for all City roads related infrastructure has been provided in Table C-1. In 2021, the City's inventory included 776 hectares of property related to roads; the property was valued at \$8.02 billion. 341 kilometers of roads occupy a portion of this property and are valued at \$1.68 billion. There are roughly 340 bridges and culverts in the City that provide for a combined value of \$278.77 million. Approximately 29,460 streetlights add another \$219.40 million to the total value of capital assets and approximately 110 traffic signals add an additional \$73.84 million. Finally, roughly 950 kilometers of sidewalks add an additional \$409.38 million to the total value of capital assets related to roads.

The total value of all roads and related infrastructure in 2021 amounts to \$10.68 billion. This results in a ten-year historical average service level of \$22,688.49 per population and employment. The historical service level, multiplied by the long-term net population and employment growth over the 2022 – 2031 planning period (145,660), results in a ten-year maximum allowable funding envelope of \$3.30 billion.

Tables C-2 & C-3 City-Wide Hard Capital Program

Table C-2 provides a summary of the development-related capital program for City-wide hard services (the projects included in the capital program are identified in Table C-3).



As shown in Table C-2, the gross cost of the capital program totals \$1.83 billion. A local service or "internal" component is identified for some of the projects, reflecting the cost that a development would have to pay for required local servicing for a particular subdivision. In keeping with historical practice, the City will continue to require these contributions through the normal subdivision process, but excluding them from the development charges calculation ensures that only the oversized portion of costs is shared by other developments. The total recoveries anticipated from local costs are estimated at \$379.41 million.

A further \$33.18 million has been identified as a non-growth or benefit to existing share and will be recovered from other municipal funding sources. Another share of the City-wide program, \$18.50 million, will either be recovered through area-specific by-laws, or are subsidies received from the Region of York or other local area municipalities. Additionally, \$57.03 million has been identified as prior growth and represent the revenue collected from previous development charges. A further \$129.41 million has been deemed to benefit growth occurring beyond the 2031 planning horizon and will be considered for recovery in subsequent development charge by-law updates. The remaining capital cost of \$1.21 billion is deemed development-related and is eligible for recovery over the 2022 – 2031 planning period.

Of the 2022 -2031 development-related costs, approximately 31.7 per cent relates to the provision of structures, or \$382.76 million; the provision for roads totals \$274.96 million and represents 22.8 per cent of the 2022 – 2031 DC recoverable costs; properties acquisition amount to \$245.04 million or 20.3 per cent. The balance of the 2022 - 2031 DC eligible costs is comprised of watermains (\$71.52 million), sidewalks (\$60.08 million), special projects – which are largely streetscaping (\$53.02 million), illumination (\$38.92 million), intersections (\$38.43 million), storm water management (\$23.32 million), studies (\$18.00 million), and sanitary sewers (\$2.50 million).



The total costs eligible for development charge recovery amounts to \$1.21 billion and is allocated 61.9 per cent, or \$748.31 million to the residential sector, 11.0 per cent, or \$133.23 million to the retail sector, 26.8 per cent, or \$323.61 million, to the other industrial/office/institutional sector and 0.3 per cent, or \$3.42 million to the mixed-use sector; theses shares are based on the 2021 – 2031 shares of growth in population in new units and employment.

The resulting unadjusted per capita residential charge is \$8,261.38 before cash flow adjustments. The non-residential retail unadjusted charge is \$211.97 per square meter, the industrial/office/institutional is \$170.84 per square meter and the mixed used charge is \$103.27 per square meter.

Table C-3 provides detail on the capital projects included in the City-wide hard development charge calculation and allocations of benefit and costs.

Table C-4Cash Flow Analysis

The long term cash flow analysis, shown in Table C-4 takes into consideration expenditure timing and revenue projections. After cash flow analysis, the residential charge increases marginally, \$122.53 (1.5%), to \$8,383.90 per capita. Likewise the non-residential charges increase slightly after cash flow: the retail charge increases to \$216.47 per square metre, the industrial/office/institutional increases to \$173.68 per square metre and the mixed use charge increases to \$105.46 per square metre.

		CITY			RV						
		GITT					Adju	sted			
20)22 - 2031		Developm	ent Charge			Development Charge				
Development-F	Related Capital Program	Residential	Retail	1.0.1.	Mixed-Use	Residential	Retail	I.O.I.	Mixed-Use		
Total	Net DC Recoverable	\$/capita	\$/sq.m	\$/sq.m	\$/sq.m	\$/capita	\$/sq.m	\$/sq.m	\$/sq.m		
\$1,826,095	\$1,208,572	\$8,261.38	\$211.97	\$170.84	\$103.27	\$8,383.90	\$216.47	\$173.68	\$105.46		
	Development-F Total	Total Net DC Recoverable	2022 - 2031 Development-Related Capital Program Residential Total Net DC Recoverable \$/capita	Unac 2022 - 2031 Developm Development-Related Capital Program Residential Total Net DC Recoverable \$/capita \$/sq.m	Unadjusted 2022 - 2031 Development Charge Development-Related Capital Program Residential Retail I.O.I. Total Net DC Recoverable \$/capita \$/sq.m \$/sq.m	2022 - 2031 Development Charge Development-Related Capital Program Residential Retail I.O.I. Mixed-Use Total Net DC Recoverable \$/capita \$/sq.m \$/sq.m	Unadjusted 2022 - 2031 Development Charge Development-Related Capital Program Residential Total Net DC Recoverable \$/capita \$/sq.m \$/sq.m \$/sq.m \$/capita	Unadjusted Adju 2022 - 2031 Development Charge Development Development-Related Capital Program Residential Retail I.O.I. Mixed-Use Residential Retail Total Net DC Recoverable \$/capita \$/sq.m \$/sq.m \$/sq.m \$/sq.m \$/capita \$/sq.m	Unadjusted Adjusted 2022 - 2031 Development Charge Development Charge Development-Related Capital Program Residential Retail I.O.I. Mixed-Use Retail Retail I.O.I. Total Net DC Recoverable \$/capita \$/sq.m \$/sq.m \$/sq.m \$/sq.m \$/sq.m \$/sq.m		



CITY OF MARKHAM INVENTORY OF CAPITAL ASSETS ROADS & RELATED - CITY-WIDE INFRASTRUCTURE

ROADS - PROPERTY					# of Hee	ctares					UNIT COST
Type of Road	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/Ha)
Major Arterial	17.72	17.72	17.72	17.72	17.72	13.99	13.99	13.99	13.99	13.99	\$10,335,52
Major Collector	290.46	293.55	293.55	295.43	295.43	281.56	284.58	287.29	287.29	287.29	\$10,335,52
Minor Collector	489.46	495.90	496.41	497.98	502.92	462.75	466.12	471.79	474.66	474.66	\$10,335,52
Total (Ha)	798	807	808	811	816	758	765	773	776	776	
Total (\$000)	8,244,029.76	8,342,527.33	8,347,798.45	8,383,456.02	8,434,513.52	7,837,430.12	7,903,474.14	7,990,085.86	8,019,748.82	8,019,748.82	

ROADS		# of Kilometres												
Type of Road	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/km)			
Major Arterial	5.54	5.54	5.54	5.54	5.54	5.54	5.54	5.54	5.54	5.54	\$5,793,017			
Major Collector	111.72	112.90	112.90	113.63	113.63	113.88	114.92	115.94	115.94	115.94	\$5,461,988			
Minor Collector	212.81	215.61	215.83	216.52	218.66	213.37	214.95	217.96	219.29	219.29	\$4,634,414			
Total (km)	330	334	334	336	338	333	335	339	341	341				
Total (\$000)	1,628,556.26	1,647,977.76	1,648,997.33	1,656,182.33	1,666,099.98	1,642,949.42	1,655,952.26	1,675,473.08	1,681,636.85	1,681,636.85				

BRIDGES & CULVERTS					# of Bridges	& Culverts					UNIT COST
Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
VEHICULAR BRIDGES	25	25	25	25	25	25	25	25	25	25	\$7,129,867
PEDESTRIAN BRIDGES	63	63	65	66	66	66	78	78	78	78	\$318,298
CULVERTS	229	230	231	232	232	232	234	237	237	237	\$319,386
Total (#)	317	318	321	323	323	323	337	340	340	340	
Total (\$000)	\$271,438.8	\$271,758.2	\$272,714.2	\$273,351.9	\$273,351.9	\$273,351.9	\$277,810.2	\$278,768.4	\$278,768.4	\$278,768.4	



CITY OF MARKHAM INVENTORY OF CAPITAL ASSETS ROADS & RELATED - CITY-WIDE INFRASTRUCTURE

STREETLIGHTS					# of Li	ghts					UNIT COST
Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
HPS	13,107	13,668	14,229	15,400	15,351	15,107	15,062	15,016	15,023	15,023	\$7,448
LED	14,502	15,063	15,624	12,503	12,587	13,485	13,559	14,111	14,434	14,434	\$7,448
Total (#)	27,609	28,731	29,853	27,903	27,938	28,592	28,621	29,127	29,457	29,457	
Total (\$000)	\$205,631.8	\$213,988.5	\$222,345.1	\$207,821.5	\$208,082.2	\$212,953.2	\$213,169.2	\$216,937.9	\$219,395.7	\$219,395.7	

TRAFFIC SIGNALS					# of Traffic	Signals					UNIT COST
Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/unit)
Signalized Intersections	93	94	94	94	95	93	98	99	99	99	\$744,817
Warning Flashers	8	8	8	8	8	12	12	13	13	13	\$7,639
Total (#)	101	102	102	102	103	105	110	112	112	112	
Total (\$000)	\$69,329.1	\$70,073.9	\$70,073.9	\$70,073.9	\$70,818.7	\$69,359.6	\$73,083.7	\$73,836.2	\$73,836.2	\$73,836.2	

SIDEWALKS					# of Kilor	netres					UNIT COST
Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	(\$/km)
Sidewalks	1,052	1,064	1,065	1,070	1,076	885	898	915	924	924	\$430,338
Multiple Use Pathways	27	27	27	28	28	25	26	27	27	27	\$430,338
Total (#)	1,079	1,091	1,092	1,098	1,104	910	924	942	951	951	
Total (\$000)	\$464,334.7	\$469,498.8	\$469,929.1	\$472,511.1	\$475,093.2	\$391,779.7	\$397,546.2	\$405,378.4	\$409,380.5	\$409,380.5	



CITY OF MARKHAM CALCULATION OF SERVICE LEVELS INVENTORY OF CAPITAL ASSETS ROADS & RELATED - CITY-WIDE INFRASTRUCTURE

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Historical Population	306,973	312,329	317,779	323,324	328,966	333,938	338,985	344,109	349,310	354,589
Historical Employment	135,104	137,357	139,685	142,092	144,582	147,517	150,539	153,654	156,862	160,210
Total Historical Population & Employment	442,077	449,686	457,464	465,416	473,548	481,455	489,524	497,763	506,172	514,800

INVENTORY SUMMARY (\$000)

Total (\$000)	\$10,883,320.5	\$11,015,824.5	\$11,031,858.1	\$11,063,396.8	\$11,127,959.5	\$10,427,824.0	\$10,521,035.8	\$10,640,479.8	\$10,682,766.5	\$10,682,766.5
Sidewalks	\$464,334.7	\$469,498.8	\$469,929.1	\$472,511.1	\$475,093.2	\$391,779.7	\$397,546.2	\$405,378.4	\$409,380.5	\$409,380.5
Traffic Signals	\$69,329.1	\$70,073.9	\$70,073.9	\$70,073.9	\$70,818.7	\$69,359.6	\$73,083.7	\$73,836.2	\$73,836.2	\$73,836.2
Bridges & Culverts	\$271,438.8	\$271,758.2	\$272,714.2	\$273,351.9	\$273,351.9	\$273,351.9	\$277,810.2	\$278,768.4	\$278,768.4	\$278,768.4
Streetlights	\$205,631.8	\$213,988.5	\$222,345.1	\$207,821.5	\$208,082.2	\$212,953.2	\$213,169.2	\$216,937.9	\$219,395.7	\$219,395.7
Roads	\$1,628,556.3	\$1,647,977.8	\$1,648,997.3	\$1,656,182.3	\$1,666,100.0	\$1,642,949.4	\$1,655,952.3	\$1,675,473.1	\$1,681,636.8	\$1,681,636.8
Property ROW	\$8,244,029.8	\$8,342,527.3	\$8,347,798.4	\$8,383,456.0	\$8,434,513.5	\$7,837,430.1	\$7,903,474.1	\$7,990,085.9	\$8,019,748.8	\$8,019,748.8

SERVICE LEVEL (\$/pop+empl)

											Level
Property ROW	\$18,648.40	\$18,551.89	\$18,247.99	\$18,012.82	\$17,811.31	\$16,278.64	\$16,145.21	\$16,051.99	\$15,843.91	\$15,578.39	\$17,117.06
Roads	\$3,683.87	\$3,664.73	\$3,604.65	\$3,558.50	\$3,518.33	\$3,412.47	\$3,382.78	\$3,366.01	\$3,322.26	\$3,266.59	\$3,478.02
Streetlights	\$465.15	\$475.86	\$486.04	\$446.53	\$439.41	\$442.31	\$435.46	\$435.83	\$433.44	\$426.18	\$448.62
Bridges & Culverts	\$614.01	\$604.33	\$596.14	\$587.33	\$577.24	\$567.76	\$567.51	\$560.04	\$550.74	\$541.51	\$576.66
Traffic Signals	\$156.83	\$155.83	\$153.18	\$150.56	\$149.55	\$144.06	\$149.30	\$148.34	\$145.87	\$143.43	\$149.69
Sidewalks	\$1,050.35	\$1,044.06	\$1,027.25	\$1,015.24	\$1,003.26	\$813.74	\$812.11	\$814.40	\$808.78	\$795.22	\$918.44
Total (\$/pop+empl)	\$24,618.61	\$24,496.70	\$24,115.25	\$23,770.99	\$23,499.11	\$21,658.99	\$21,492.37	\$21,376.61	\$21,105.00	\$20,751.31	\$22,688.49

CITY OF MARKHAM CALCULATION OF SERVICE LEVELS INVENTORY OF CAPITAL ASSETS ROADS & RELATED - CITY-WIDE INFRASTRUCTURE

10-Year Funding Envelope Calculation	
10 Year Average Service Level 2012 - 2021	\$22,688.49
Net Population & Employment Growth 2022 - 2031	145,660
Maximum Allowable Funding Envelope	\$3,304,814,431



Average Service

CITY OF MARKHAM CITY-WIDE HARD SERVICES DEVELOPMENT-RELATED PROJECTS SUMMARY

2022 - 2031

				Non-Develop Recovera		0	Ar	rea Specific & Other				Other		City-Wide	Reside	entia	al Sł	hare of CWH	Non-F	lesid	ential Re	etail	Non-Re	eside	ntial I.O.I.	Non-Res	identia	al Mixed-Use
Service	Tot	al Gross Cost	L	Local Costs	(on-Growth (Benefit to Existing)	D	Development Charges Recovery	Pi	rior Growth	D	evelopment- Related		Development Charge Recoverable				nt Charge erable	Share of Char		l Develo ecoveral	•			Development coverable			Development coverable
ILLUMINATION	\$	44.640.000	\$	217,114	\$	3,721,999	\$	-	\$	-	\$	1.776.168	\$	38.924.718	61.9%	6	\$	24,101,096	11.0%	đ	3 42	91,112	26.8%	\$	10,422,482	0.3%	\$	110,029
INTERSECTION	\$	43.111.194	\$	403,999	\$	4,272,330	\$	-	\$	-	\$	-	\$	38,434,865	61.99		\$	23,797,792	11.0%	4		37,110	26.8%	\$	10,291,319	0.3%	\$	108,644
ROADS	\$	604,538,439	\$	243,553,583	\$	-	\$	-	\$	11,125,155	\$	74,895,469	\$	274,964,232	61.9%	6 9	\$	170,250,156	11.0%	9		12,418	26.8%	\$	73,624,417	0.3%	\$	777,241
PROPERTIES ACQUISITION	\$	266,083,580	\$	8,347,025	\$	-	\$	-	\$	12,279,353	\$	420,857	\$	245,036,345	61.9%	6 9	\$	151,719,646	11.0%	9	5 27,0	13,128	26.8%	\$	65,610,926	0.3%	\$	692,644
SIDEWALKS	\$	72,400,047	\$	244,164	\$	6,036,536	\$	-	\$	-	\$	6,036,536	\$	60,082,811	61.9%	6 9	\$	37,201,595	11.0%	9	6,6	23,608	26.8%	\$	16,087,772	0.3%	\$	169,836
STORM WATER MANAGEMENT	\$	50,474,837	\$	-	\$	7,311,950	\$	16,039,216	\$	3,801,032	\$	-	\$	23,322,638	61.9%	6 9	\$	14,440,725	11.0%	9	5 2,5	71,118	26.8%	\$	6,244,869	0.3%	\$	65,926
WATERMAIN	\$	83,090,298	\$	687,748	\$	651,348	\$	364,813	\$	9,861,531	\$	-	\$	71,524,858	61.9%	6 9	\$	44,286,190	11.0%	9	5 7,8	84,994	26.8%	\$	19,151,494	0.3%	\$	202,179
STUDIES	\$	18,003,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	18,003,000	61.9%	6 9	\$	11,146,954	11.0%	9	5 1,9	84,674	26.8%	\$	4,820,483	0.3%	\$	50,889
SPECIAL PROJECTS	\$	90,505,053	\$	19,218,118	\$	11,186,286	\$	-	\$	-	\$	7,080,786	\$	53,019,863	61.9%	6 3	\$	32,828,415	11.0%	9	5,8	44,979	26.8%	\$	14,196,597	0.3%	\$	149,871
STRUCTURES	\$	542,259,752	\$	106,739,947	\$	-	\$	-	\$	16,062,886	\$	36,697,757	\$	382,759,161	61.9%	6 3	\$	236,993,759	11.0%	9	6 42,1	95,872	26.8%	\$	102,487,585	0.3%	\$	1,081,945
SANITARY SEWER	\$	5,000,000	\$	-	\$	-	\$	-	\$	-	\$	2,500,000	\$	2,500,000	61.9%	6 9	\$	1,547,930	11.0%	9	5 2	75,603	26.8%	\$	669,400	0.3%	\$	7,067
CREDIT AGREEMENT PROJECTS	\$	5,989,298	\$	-	\$	-	\$	2,093,566	\$	3,895,732	\$	-	\$	-	61.9%	6 3	\$	-	11.0%	47	6	-	26.8%	\$	-	0.3%	\$	-
TOTAL	\$1	,826,095,497	\$	379,411,698	\$	33,180,448	\$	18,497,595	\$	57,025,690	\$	129,407,574	\$:	1,208,572,492		;	\$ 7	748,314,258		\$	\$ 133,2	34,618	•	\$	323,607,344		\$	3,416,272

Adjustments Less Existing Unallocated Reserve Fund Balances Less Credit Agreements Paid Projects Funded From Reserves	(\$2,652,776)	61.9% 61.9% 61.9%	\$0 (\$1,642,525) \$0	11.0% 11.0% 11.0%	\$0 (\$292,446) \$0	26.8% 26.8% 26.8%	\$0 (\$710,307) \$0	0.3% 0.3% 0.3%		\$0 (\$7,499) \$0
TOTAL CITY-WIDE HARD DEVELOPMENT CHARGE RECOVERABLE	\$1,205,919,716		\$ 746,671,734		\$ 132,942,172		\$ 322,897,037		\$	3,408,774
RESIDENTIAL DEVELOPMENT CHARGE Population in New Units 2022 - 2031 Unadjusted Development Charge Per Capita - Before Cash Flow Charge per Single and Semi City-Wide Hard Preliminary Draft Rate Calculation			90,381 \$ 8,261.38 3.73 \$30,811							
NON-RESIDENIAL DEVELOPMENT CHARGE Non-residential Growth in Square Metres (GFA) 2022-2031 Unadjusted Development Charge Per Square Metre of GFA - Before Cash Flow				Retail	627,176 \$ 211.97	I.O.I	1,890,059 \$ 170.84	Mixed-us	se \$	33,009 103.27



Luczie Frie Frie Grad <			There is	Total	Loca	l - by others		Others Sharing	g and/or Non-Gro	wth Cost		City-Share		DC Eligible	
A Home Part Part Part Part Part Part Part Part	Location	From / To	Timing of	Gross Cost	Share	Cost	Share	Gross	Others Cost	Non-growth	Share	Cost	Prior	DC Eligible	Other
A LAMBAGE A LAMBAGE <t< th=""><th></th><th></th><th>Project</th><th>(\$)</th><th>(%)</th><th>(\$)</th><th>(%)</th><th>(\$)</th><th>(\$)</th><th>(\$)</th><th>(%)</th><th>(\$)</th><th>Growth</th><th>Costs</th><th>Dev. Relate</th></t<>			Project	(\$)	(%)	(\$)	(%)	(\$)	(\$)	(\$)	(%)	(\$)	Growth	Costs	Dev. Relate
Dependent Mark Mark <th></th> <th>2022 - 2031</th> <th>(\$)</th>														2022 - 2031	(\$)
Description Description Main of the Marken															
Index <th< td=""><td></td><td></td><td>2022 - 2031</td><td>\$ 4.447.556</td><td>0%</td><td>s -</td><td>0% 5</td><td>6 -</td><td>s -</td><td>s -</td><td>100%</td><td>\$ 4.447.556</td><td>\$ -</td><td>\$ 4.447.556</td><td>\$</td></th<>			2022 - 2031	\$ 4.447.556	0%	s -	0% 5	6 -	s -	s -	100%	\$ 4.447.556	\$ -	\$ 4.447.556	\$
DensionSimpleSim		I&W Esna Park to Warden Ave.				- 		271.319	s -	\$ 271.319			\$ -	\$ 146.095	s
DenombS.Set of the submet of the subm									s -				\$ -		\$
ImplanyImplanySS<		-				8 –			s -				\$ -		\$
inthe <th< td=""><td></td><td></td><td></td><td></td><td></td><td>8 -</td><td></td><td></td><td>s -</td><td>s -</td><td></td><td></td><td>\$ -</td><td></td><td>\$</td></th<>						8 -			s -	s -			\$ -		\$
Import5.SubscriptionSubscrip				\$ 168,766			0% 3	6 -	s -	s -			\$ -	\$ 168,766	s
NameN	Highway 7	S.S. Donald Cousens Pkwy to Reesor Road	2022 - 2031	\$ 196,393	0%	÷ -	0% 3	6 -	s -	s -	100%	\$ 196,393	\$ -	\$ 196,393	\$
MainM		S.S. Karachi Drive to S limit Lot 4, Con. 8	2022 - 2031	\$ 120,976	0%	s -	0% 3	6 -	s -	s -	100%	\$ 120,976	\$ -	\$ 120,976	\$
Import Decomponent Decomponent Decomponent 					0%	s -	0% 3	6 -	s -	s -			\$ -		\$
DendD	Major Mackenzie	B.S. Markham Rd. to Donald Cousens Pkwy	2022 - 2031	\$ 527,924	0%	÷ -	0% 3	6 -	s -	s -	100%	\$ 527,924	\$ -	\$ 527,924	\$
DandD	Major Mackenzie	S.S. Donald Cousens Parkway to Ninth Line	2022 - 2031	\$ 334,531	0%	\$ -	0% 3	6 -	s -	s -	100%	\$ 334,531	\$ -	\$ 334,531	\$
Non-stand <td>Donald Cousens Parkway</td> <td>B.S. Main St. North to OHEPC</td> <td>2022 - 2031</td> <td>\$ 2,868,083</td> <td>0%</td> <td>\$ -</td> <td>0% 3</td> <td>5 -</td> <td>s -</td> <td>s -</td> <td>100%</td> <td>\$ 2,868,083</td> <td>\$ -</td> <td>\$ 2,868,083</td> <td>s</td>	Donald Cousens Parkway	B.S. Main St. North to OHEPC	2022 - 2031	\$ 2,868,083	0%	\$ -	0% 3	5 -	s -	s -	100%	\$ 2,868,083	\$ -	\$ 2,868,083	s
DisclementationBitB	Donald Cousens Parkway	E.S. 9th Line to between 9th line and 16th Ave	2022 - 2031	\$ 279,276	0%	\$ -	0% 3	5 -	\$ -	\$ -	100%	\$ 279,276	\$ -	\$ 279,276	\$
Mine LearningMine	Donald Cousens Parkway	N.S. Highway 407 N. to Hwy 7	2022 - 2031	\$ 251,648	0%	\$ -	0% 3	6 -	s -	s -	100%	\$ 251,648	\$ -	\$ 251,648	\$
Mine Lemandin 0.	Donald Cousens Parkway	B.S. Nineteenth Avenue to Warden Ave	2022 - 2031	\$ 878,402	0%	\$ -	0% 3	6 -	s -	s -	100%	\$ 878,402	\$ -	\$ 878,402	\$
Backed B.	Miller Extension	B.S. Warden Avenue to Birchmount Rd.	2022 - 2031	\$ 445,042	0%	B -	0% 3	5 -	s -	s -	100%		\$ -	\$ 445,042	\$
Sincenthyme	Miller Extension	B.S. Birchmount Rd. to Kennedy Rd.	2022 - 2031	\$ 932,178	0%	B -	0% 3	5 -	s -	s -	100%	\$ 932,178	\$ -	\$ 932,178	s
SincentAmeme SincentAmememe SincentAmeme SincentAmem	Rodick Road	B.S. 14th Avenue to Miller Avenue	2022 - 2031	\$ 417,414	0%	B -	0% 3	5 -	s -	s -	100%	\$ 417,414	\$ -	\$ 417,414	s
Sheath Annone Sheath Anno Sheath Annone Sheath Ann	Sixteenth Avenue	B.S. Highway 404 to Cachet Woods	2022 - 2031	\$ 279,276	0%	\$ -	0% 3	6 -	s -	s -	100%	\$ 279,276	\$ -	\$ 279,276	\$
Since Since <th< td=""><td>Sixteenth Avenue</td><td>S.S. Cachet Woods to Woodbine</td><td>2022 - 2031</td><td>\$ 182,579</td><td>0%</td><td>\$ -</td><td>65% 3</td><td>118,677</td><td>s -</td><td>\$ 118,677</td><td>35%</td><td></td><td>\$ -</td><td>\$ 63,903</td><td>\$</td></th<>	Sixteenth Avenue	S.S. Cachet Woods to Woodbine	2022 - 2031	\$ 182,579	0%	\$ -	65% 3	118,677	s -	\$ 118,677	35%		\$ -	\$ 63,903	\$
Step Anome Ni. Markam Ret OURPC Column A	Sixteenth Avenue	N.S. Warden Ave. to Kennedy Rd.	2022 - 2031	\$ 582,639	0%	\$ -	65% 3	378,715	s -	\$ 378,715	35%	\$ 203,924	\$ -	\$ 203,924	\$
Resor AL S Mayor Y 1000m Onthor Mayor Y 202 2 S V S V S	Sixteenth Avenue	S.S. Markham Rd to 300m westerly	2022 - 2031	\$ 85,103	0%	B -	65% \$	55,317	s -	\$ 55,317	35%	\$ 29,786	\$ -	\$ 29,786	\$
Resort AL No. Highway AD1 Highway AD7 Val	Steeles Avenue	N.S. Markham Rd to OHEPC	2022 - 2031	\$ 1,066,615	0%	B -	0% 3	5 -	s -	s -	100%	\$ 1,066,615	\$ -	\$ 1,066,615	s
Resort Add Wiss Wiss Wiss Wiss Wiss S<	Reesor Rd.	E.S. Highway 7 to 1000m North of Highway 7	2022 - 2031	\$ 279,276	0%	B -	0% 3	5 -	s -	s -	100%	\$ 279,276	\$ -	\$ 279,276	s
Victoria Paria 6. 0	Reesor Rd.	B.S. Highway 7 to Highway 407	2022 - 2031	\$ 500,297	0%	B -	0% 3	5 -	s -	s -	100%	\$ 500,297	\$ -	\$ 500,297	\$
Number S Number S S A S <th< td=""><td>Reesor Rd.</td><td>N.S. Highway 407 to 14th Avenue</td><td>2022 - 2031</td><td>\$ 320,717</td><td>0%</td><td>B -</td><td>0% 3</td><td>5 -</td><td>s -</td><td>s -</td><td>100%</td><td>\$ 320,717</td><td>\$ -</td><td>\$ 320,717</td><td>\$</td></th<>	Reesor Rd.	N.S. Highway 407 to 14th Avenue	2022 - 2031	\$ 320,717	0%	B -	0% 3	5 -	s -	s -	100%	\$ 320,717	\$ -	\$ 320,717	\$
Yarkach Drive B. Rodick Rub drive Parkach Park Parkach Parkach<	Victoria Park	E.S. Denison to Steeles	2022 - 2031	\$ 320,717	0%	B -	65% 3	208,466	s -	\$ 208,466	35%	\$ 112,251	\$ -	\$ 112,251	\$
Whee B Warden, Kenney Qu2 Qu2 Qu2	Woodbine Avenue	E.S. N. limit of Cathedral to 19th Avenue	2022 - 2031	\$ 472,669	0%	B -	0% 3	B -	s -	s -	100%	\$ 472,669	\$ -	\$ 472,669	\$
John Streit N.S. 200m West of Allen Rd to Woodbine 202 201 \$ 981,891,80 \$ 5 5 5 5 5 5 226,242 \$ 205,042 5 220,242 \$ 205,042 \$ 205,042 \$ 205,042 \$ 205,042 \$ 205,042 \$ 205,042 \$ 205,042 \$ 205,042 \$ 205,042 \$ 205,042 \$ 205,042 \$ 205,042 \$ 202,042 \$ \$ 202,042 \$ \$ 202,042 \$ \$ 202,042 \$ \$ 202,042 \$ \$ 202,042 \$ \$ 10,04 \$ 202,042 \$ \$ \$ 10,04 \$ 202,042 \$ \$ \$ 10,04 \$ 202,042 \$ \$ \$ 10,04 \$ 202,042 \$ \$ 10,04 \$ 202,042 \$ \$ 10,04 \$ 10,04 \$ 10,04 \$ 10,04 \$ 10,04 \$ 10,04 \$ 10,04 \$<	Yorktech Drive	B.S. Rodick Rd. to Warden	2022 - 2031	\$ 824,627	0%	\$ -	0% 3	6 -	\$ -	s -	100%	\$ 824,627	\$ -	\$ 824,627	\$
Main SL North E.S. Parkway Avenue to 16th Avenue 202 2.021 S 3.43.43 9.8 S 2.02 S 2.021 S 3.63.41 0.8 S 2.02 4.36.65 S 5.6 S <th< td=""><td>White Belt</td><td>B.S Warden, Kennedy</td><td>2022 - 2031</td><td>\$ 3,244,509</td><td>0%</td><td>\$ -</td><td>0% 3</td><td>6 -</td><td>\$ -</td><td>s -</td><td>100%</td><td>\$ 3,244,509</td><td>\$ -</td><td>\$ 3,244,509</td><td>\$</td></th<>	White Belt	B.S Warden, Kennedy	2022 - 2031	\$ 3,244,509	0%	\$ -	0% 3	6 -	\$ -	s -	100%	\$ 3,244,509	\$ -	\$ 3,244,509	\$
Indidefield Rd E. Steles Ave 14 Ave Que Que <	John Street	N.S. 200m West of Aileen Rd to Woodbine	2022 - 2031	\$ 891,846	0%	B -	0% 3	B -	s -	s -	100%	\$ 891,846	\$ -	\$ 891,846	\$
Rodick Road E.S. 16th Avenue to Woodbine Avenue 202 2.001 \$ 417.41 90 \$ 0 0 \$ 0 <td>Main St. North</td> <td>E.S. Parkway Avenue to 16th Avenue</td> <td>2022 - 2031</td> <td>\$ 348,345</td> <td>0%</td> <td>- 8</td> <td>65% 3</td> <td>\$ 226,424</td> <td>s -</td> <td>\$ 226,424</td> <td>35%</td> <td>\$ 121,921</td> <td>\$ -</td> <td>\$ 121,921</td> <td>\$</td>	Main St. North	E.S. Parkway Avenue to 16th Avenue	2022 - 2031	\$ 348,345	0%	- 8	65% 3	\$ 226,424	s -	\$ 226,424	35%	\$ 121,921	\$ -	\$ 121,921	\$
Alstate Puwo E. Centurian Drive to South Linding Buttowille 202 2.001 \$ 1.001 5	Middlefield Rd	E.S. Steeles Ave to 14 Ave	2022 - 2031	\$ 636,414	0%	- 8	65% 3	\$ 413,669	s -	\$ 413,669	35%	\$ 222,745	\$ -	\$ 222,745	\$
Valeywood P B.S. Fronteac Dive to North of Appleceed Bide. 202 2.031 \$ 2424.02 50 \$ 112.00 \$ 5 5 5 5 5 5 112.00 \$ 104 5 144 5 5 112.00 \$ 104 \$ 104 5 112.00 \$ 104 \$ 104 5 112.00 \$ 104 \$ 104 5 112.00 \$ 104 \$ 104 5 112.00 \$ 112.00 \$ 112.00 \$ 112.00 \$ 112.00 \$ 112.00 \$ 112.00 \$ 112.00 \$ 112.00 \$ 112.00 \$ 112.00 \$ 112.00 \$ 112.00 \$ 112.00 \$ 112.00 \$ 120.00 \$ 120.00 \$ 120.00 \$ 120.00 \$ 120.00 \$ 120.00 \$ 120.00 \$ 120.00 \$ 120.00 \$ 120.00 \$ 120.00 \$ 120.00 \$ 120.00 \$	Rodick Road	E.S. 16th Avenue to Woodbine Avenue	2022 - 2031	\$ 417,414	0%	- 8	0% 3	6 -	s -	s -	100%	\$ 417,414	\$ -	\$ 417,414	\$
Cachet Woods Crescent E.s. 16th Avenue to Markland Extension 202 2.0201 \$ 147.41 0% \$ - 6% \$ - \$ - 100% \$ 147.414 \$ 147.414 0% \$ - 6% \$ - \$ - 100% \$ 147.414 \$ 147.414 0 \$ 5 - \$ 100%	Allstate Pkwy	E.S. Centurian Drive to South Limit of Buttonville	2022 - 2031	\$ 210,207	50%	\$ 105,104	0% 3	5 -	\$ -	\$ -	50%	\$ 105,104	\$ -	\$ 105,104	\$
Olde Anne dy Rd W.S. Steeles Ave. to Dension St. 202 203 \$ 279275 \$ - \$ - \$ - \$ - \$ - 1000 \$ 202 2 203 \$ 1201.053 \$ - \$ - \$ - 5 - 5 - 1000 \$ 1201.053 \$ 1201.053 \$ - 5 - \$ - 5	Valleywood Dr	B.S. Frontenac Drive to North of Applecreek Blvd.	2022 - 2031	\$ 224,021	50%	\$ 112,010	0% 3	6 -	\$ -	\$ -	50%	\$ 112,010	\$ -	\$ 112,010	\$
19th Ave 1.0	Cachet Woods Crescent	E.S. 16th Avenue to Markland Extension	2022 - 2031	\$ 417,414	0%	\$ -	0% 3	- 8	\$ -	\$ -	100%	\$ 417,414	\$ -	\$ 417,414	\$
Eign Mils Add S. Victoria Square Blvd to Warden Adved 202 2 and S 1 (2010) S <td>Old Kennedy Rd</td> <td>N.S. Steeles Ave. to Denison St</td> <td>2022 - 2031</td> <td>\$ 279,276</td> <td>0%</td> <td>\$-</td> <td>0% 3</td> <td>5 -</td> <td>\$ -</td> <td>\$ -</td> <td>100%</td> <td>\$ 279,276</td> <td>\$ -</td> <td>\$ 279,276</td> <td>\$</td>	Old Kennedy Rd	N.S. Steeles Ave. to Denison St	2022 - 2031	\$ 279,276	0%	\$-	0% 3	5 -	\$ -	\$ -	100%	\$ 279,276	\$ -	\$ 279,276	\$
Eign Mills A S. Warden Ave to Kennedy Rd 202 2.003 \$ 1.001,003 \$ 0.000<	19th Ave	B.S. Hwy 404 to 1100m E of Woodbine Ave		\$ 1,201,053	0%	\$-	0% 3	5 -	\$ -	\$ -	100%	\$ 1,201,053	\$ -	\$ 1,201,053	\$
Eign Mills A S. Kennedy Rd to 1000 and Kennedy Rd 202 2.03 \$ 555,552 \$ 555,552 \$ 555,552 \$ \$ \$ 555,552 \$ \$ \$ \$ 555,552 \$ \$ \$ \$ 555,552 \$ \$ \$ \$ 555,552 \$ \$ \$ \$ 555,552 \$ \$ \$ \$ 555,552 \$ \$ \$ \$ 555,552 \$<	-					\$-		6 -	\$ -	\$ -			\$ -		\$
Lagstaff Road B.S. Bayriaw Avenue to South Limit of Langstall Development 202 2 203 \$ 251,648 \$ - \$ - \$ - 100% \$ - \$ 251,648 \$ - \$ 251,648 \$ - \$ - \$ - \$ 100% \$ 251,648 \$ - \$ 251,648 \$ - \$ 251,648 \$ - \$ 100% \$ 251,648 \$ - \$ 100% \$ 251,648 \$ - \$ 100% \$ 251,648 \$ - \$ 251,648 \$ - \$ 251,648 \$ - \$ 251,648 \$ - \$ 100% \$ 251,648 \$ - \$ 100% \$ 100% \$ 100% \$ 100% \$ 100% \$ 100% \$ 100% \$ 100% \$ 100% \$ 100% \$ 100% \$ 100% \$ 100% \$ 100% \$								6 -	\$ -	\$ -			\$ -		\$
Warden Ave B.S. Major Mackenzie Dro Eigin Mills Ad 202 2.03 \$ 1.01,053 \$ - \$ - \$ 1.000 \$ 1.001,053 \$ 1.001,053 \$. 1.001,053 \$ 1.001,053 \$. 1.001,053 \$. 1.001,053 \$. 1.001,053 \$. 1.001,053 \$. 1.001,053 \$. 1.001,053 \$. 1.001,053 \$. 1.001,053 \$. 1.001,053 \$. 1.001,053 \$. 1.001,053 \$. 1.001,053 \$. 1.001,053 \$. 1.001,053 \$. 1.001,053 \$. 1.001,053 \$. 1.001,053 \$ 1.001,053 \$ 1.001,053 \$ 1.001,053 \$ 1.001,053 \$ 1.001,053 \$ 1.001,053 \$ 1.001,053 \$ 1.001,053 \$ 1.001,053 \$ 1.001,053 \$ 1.001,053 \$ 1.001,053 \$ 1.001,053 <th< td=""><td>Elgin Mills Rd</td><td>B.S. Kennedy Rd to 1000m E of Kennedy Rd</td><td>2022 - 2031</td><td>\$ 555,552</td><td>0%</td><td>\$-</td><td>0% 3</td><td>6 -</td><td>\$ -</td><td>\$ -</td><td>100%</td><td>\$ 555,552</td><td>\$ -</td><td>\$ 555,552</td><td>\$</td></th<>	Elgin Mills Rd	B.S. Kennedy Rd to 1000m E of Kennedy Rd	2022 - 2031	\$ 555,552	0%	\$-	0% 3	6 -	\$ -	\$ -	100%	\$ 555,552	\$ -	\$ 555,552	\$
Warden Ave B.S. Eigin Mills Rd to 19th Ave 202 2.023 \$ 1.201.053 \$ - \$ - \$ - 1.000 \$ 1.201.053 \$ - \$ 1.000 \$ 1.201.053 \$ 1.201.053 \$ 1.201.053 \$ - \$ - \$ 1.000 \$ 1.201.053 \$ <td>Langstaff Road</td> <td>B.S. Bayview Avenue to South Limit of Langstall Development</td> <td></td> <td>+</td> <td>0%</td> <td>\$-</td> <td></td> <td>5 -</td> <td>\$ -</td> <td>\$ -</td> <td>100%</td> <td>\$ 251,648</td> <td>\$ -</td> <td>\$ 251,648</td> <td>\$</td>	Langstaff Road	B.S. Bayview Avenue to South Limit of Langstall Development		+	0%	\$-		5 -	\$ -	\$ -	100%	\$ 251,648	\$ -	\$ 251,648	\$
Kennedy Rd B.S. Major Mackenzie Dr to Elgin Mills Rd 2022 2 2031 \$ 1,201,053 \$ 1,201,053 \$ 1,201,053 Streetlights for Sidewalk Gapping Program 2022 2031 \$ 5,189,473 0% \$ 1 18% \$ 908,158 \$ \$ 1,001,053 \$ - \$ 1,201,053 \$ - \$ 3,373,157 \$ - \$ 3,373,157 \$ - \$ 3,373,157 \$ - \$ 3,373,157 \$ - \$ 3,373,157 \$ - \$ 3,373,157 \$ - \$ 3,373,157 \$ - \$ 3,373,157 \$ - \$ 3,373,157 \$ - \$ 3,373,157 \$ - \$ 3,373,157 \$ - \$ 3,373,157 \$ - \$ 3,373,157 \$ - \$ 3,373,157 \$ - \$ 3,373,157 \$ - \$ 3,373,157 \$ - \$ 3,373,157 \$ - \$ 3,373,157	Warden Ave	B.S. Major Mackenzie Dr to Elgin Mills Rd	2022 - 2031	\$ 1,201,053	0%	\$ -	0% 3	- 8	\$ -	\$ -	100%	\$ 1,201,053	\$ -	\$ 1,201,053	\$
Streetlights for Sidewalk Gapping Program	Warden Ave	B.S. Elgin Mills Rd to 19th Ave	2022 - 2031	\$ 1,201,053	0%	\$-	0% 3	5 -	\$ -	\$ -	100%	\$ 1,201,053	\$ -	\$ 1,201,053	\$
		, .				•		-	÷	•			\$ -		\$
Streetlights for Active Transportion Program 2022 - 2031 \$ 4,960,060 0% \$ - \$ 868,011 \$ - \$ 3,224,039 \$ - \$ 3,224,039	Streetlights for Sidewalk Gapping Program	1		\$ 5,189,473	0%	\$-	18% 3	\$ 908,158	\$ -	\$ 908,158	65%	\$ 3,373,157	\$ -	\$ 3,373,157	\$
	Streetlights for Active Transporation Prog	am	2022 - 2031	\$ 4,960,060	0%	\$ -	18% 3	\$ 868,011	\$ -	\$ 868,011	65%	\$ 3,224,039	\$ -	\$ 3,224,039	\$ 8
TOTAL ILLUMINATION \$ 44,640,000 \$ 217,114 \$ 3,721,999 \$ - \$ 3,721,999 \$ \$ 38,924,718 \$ - \$ 38,924,718		TOTAL ILLUMINATION		\$ 44,640,000		\$ 217,114		\$ 3,721,999	\$ -	\$ 3,721,999		\$ 38,924,718	\$ -	\$ 38,924,718	\$ 1,77



r				Total	Loc	al - by others	T	Others Sharing	and/or Non-Grow	th Cost	C	ity-Share		DC Eligible	
Location		From / To	Timing of	Gross Cost	Share	Cost	Share	Gross	Others Cost	Non-growth	Share	Cost	Prior	DC Eligible	Other
			Project	(\$)	(%)	(\$)	(%)	(\$)	(\$)	(\$)	(%)	(\$)	Growth	Costs	Dev. Related
														2022 - 2031	(\$)
															(4)
2.0 INTERSECTION			0000 0001	\$ 1.685.774	00/	<u>^</u>	0.00	¢	s -	<u>,</u>	1000/	\$ 1.685.774	<u>^</u>	\$ 1.685.774	
City-wide Intersection Improvements City-wide Interesecton Pedestrian Sign	aal (Lumn Sum) - 10	2022 - 2031 2022 - 2031	\$ 1,685,774 \$ 2,300,217		\$ - \$ -	0% 0%	\$ - \$ -	s -	s -	100% 100%	\$ 1,685,774 \$ 2,300,217	ъ - с	\$ 1,685,774 \$ 2,300,217	3 - c
404 North employment Land N-S Road				\$ 1,018,665		s -	0%	\$ - \$	s -	s -	100%	\$ 1,018,665	\$ -	\$ 1,018,665	s -
Birchmount Extension		ller Avenue		\$ 345,735		s -		\$ -	s -	s -	100%	\$ 345,735	\$ -	\$ 345,735	s -
Apple Creek Boulevard		Intosh Drive	2022 - 2031	\$ 345,735	0%	\$ -	65%	\$ 224,728	s -	\$ 224,728	35%	\$ 121,007	\$ -	\$ 121,007	s -
Brimley Road		rdiff / Worthing	2022 - 2031	\$ 345,735	0.0	\$ -		\$ 224,728	\$ -	\$ 224,728	35%	\$ 121,007	\$ -	\$ 121,007	\$-
Brimley Road		ndall Avenue	2022 - 2031	\$ 345,735	0.0	s -		\$ 224,728	s -	\$ 224,728	35%	\$ 121,007	\$ -	\$ 121,007	\$ -
Future Signalized Intersections (2)		smer	2022 - 2031	\$ 685,110 \$ 1,685,774	0% 0%	s -	0% 0%	\$ - \$ -	S -	s -	100% 100%	\$ 685,110 \$ 1,685,774	\$ -	\$ 685,110 \$ 1,685,774	s -
Future Signalized Intersections (5) Future Signalized Intersections (4)		rzcy eensborough	2022 - 2031 2022 - 2031	\$ 1,685,774 \$ 1,352,219	0%	5 - c	0%	ъ – \$ –		5 - e	100%	\$ 1,685,774 \$ 1,352,219	- C	\$ 1,885,774 \$ 1,352,219	ъ -
Future Signalized Intersections (4) Future Signalized Intersections (2)		thedraltown	2022 - 2031	\$ 1,552,219		s - s -	0%	s - s -	s -	s -	100%	\$ 685,110	5 - S -	\$ 685,110	s -
Future Signalized Intersections (5)	at FU		2022 - 2031	\$ 1,685,774		\$ -	0%	\$ -	s -	s -	100%	\$ 1,685,774	\$ -	\$ 1,685,774	s -
Carlton Road		lage Parkway	2022 - 2031	\$ 345,735	0%	\$ -		\$ 224,728	s -	\$ 224,728	35%	\$ 121,007	\$ -	\$ 121,007	\$ -
Carlton Road		anhattan Drive	2022 - 2031	\$ 345,735	0%	\$ -	65%	\$ 224,728	s -	\$ 224,728	35%	\$ 121,007	\$ -	\$ 121,007	s -
Church Street		ooten Way		\$ 807,998		\$ -		\$ 525,199	\$ -	\$ 525,199	35%	\$ 282,799	\$ -	\$ 282,799	\$ -
Denison Street		arydale Drive		\$ 345,735		\$ -		\$ -	s -	s -	100%	\$ 345,735	\$ -	\$ 345,735	s -
Doncaster Avenue		nderson Avenue	2022 - 2031	\$ 807,998	0%	\$ -	65%	\$ 525,199	s -	\$ 525,199	35%	\$ 282,799	\$ -	\$ 282,799	s -
Enterprise Drive		iberras Road		\$ 345,735		\$ -		\$ -	s -	\$ -	100%	\$ 345,735	\$ -	\$ 345,735	s -
Fairburn Drive Fourteenth Avenue		dick Road iera Drive (east of Rodick)	2022 - 2031 2022 - 2031	\$ 345,735 \$ 345,735		\$ - \$ -	65% 65%	\$ 224,728 \$ 224,728	\$ - \$ -	\$ 224,728 \$ 224,728	35% 35%	\$ 121,007 \$ 121,007	\$ -	\$ 121,007 \$ 121,007	s -
Fourteenth Avenue		riera Drive (east of Rodick) d Block (east of Woodbine)	2022 - 2031	\$ 345,735 \$ 345,735	0.0	s -		\$ 224,728 \$ 224.728	s -	\$ 224,728 \$ 224,728	35%	\$ 121,007	\$ -	\$ 121,007 \$ 121.007	s -
Green ane		een / Willowbrook	2022 - 2031	\$ 807,998		s -	65%	\$ 525,199	s -	\$ 525,199	35%	\$ 282,799	\$ -	\$ 282,799	s -
Henderson Street		In Street	2022 - 2031	\$ 345,735	0%	\$ -	65%	\$ 224,728	s -	\$ 224,728	35%	\$ 121,007	\$ -	\$ 121,007	s -
Honda Blvd.		th Avenue	2022 - 2031	\$ 807,998	0%	\$ -	0%	\$ -	\$ -	\$ -	100%	\$ 807,998	\$ -	\$ 807,998	\$ -
Hood Road	at Mc	Pherson Road	2022 - 2031	\$ 345,735	0%	\$ -	65%	\$ 224,728	s -	\$ 224,728	35%	\$ 121,007	\$ -	\$ 121,007	\$ -
Markham Centre Turning Lane & Union			2022 - 2031	\$ 807,998	070	\$ -	0%	\$ -	s -	\$ -	100%	\$ 807,998	\$ -	\$ 807,998	\$ -
Main St. North		ttista Perri Dr	2022 - 2031	\$ 345,735	0.0	\$ -	0%	\$ -	s -	\$ -	100%	\$ 345,735	\$ -	\$ 345,735	\$ -
Markland Street		Imount Road	2022 - 2031	\$ 345,735	0.0	\$ -	0%	\$ -	s -	s -	100%	\$ 345,735	\$ -	\$ 345,735	s -
Midland Avenue Ramona Blvd.		d Kennedy Road ooten Wav	2022 - 2031 2022 - 2031	\$ 345,735 \$ 345,735		s - s -		\$ - \$ 224,728	s -	\$ - \$ 224,728	100% 35%	\$ 345,735 \$ 121,007	\$ -	\$ 345,735 \$ 121,007	s -
Rizal Avenue		pper Creek Drive	2022 - 2031	\$ 345,735 \$ 345,735		s - s -		\$ 224,720 \$ -	s -	5 224,120 e	100%	\$ 345,735	а – с	\$ 345,735	
Rodick Road		egg Road	2022 - 2031	\$ 345,735	0%	s -	0%	\$ - \$	s -	s -	100%	\$ 345,735	\$ -	\$ 345,735	s -
Rodick Road		x Blvd.		\$ 345,735		\$ -	0%	\$ -	s -	s -	100%	\$ 345,735	\$ -	\$ 345,735	s -
Rougeside Promenade		rclaire Gate	2022 - 2031	\$ 345,735	0%	\$ -	0%	\$ -	s -	s -	100%	\$ 345,735	\$ -	\$ 345,735	\$ -
Rougeside Promenade	at Sci	iberras Road	2022 - 2031	\$ 345,735	0%	\$ -		\$ -	s -	s -	100%	\$ 345,735	\$ -	\$ 345,735	\$ -
Rodick Road		acrill / Rachel	2022 - 2031	\$ 345,735	0.0	\$ -		\$ -	s -	\$ -	100%	\$ 345,735	\$ -	\$ 345,735	\$ -
Village Gate		lvert Road	2022 - 2031	\$ 345,735	0.0	s -		\$ 224,728	s -	\$ 224,728	35%	\$ 121,007	\$ -	\$ 121,007	s -
White's Hill Avenue		rnell Centre Boulevard	2022 - 2031	\$ 345,735	0%	s -	0%	\$ -	s -	s -	100%	\$ 345,735	\$ -	\$ 345,735	s -
407 Westbound exit ramp to East Preci Reesor Road		(in Mills	2022 - 2031	\$ 807,998 \$ 807,998	0% 0%	s -	0% 0%	\$ - \$ -	5 -	5 -	100% 100%	\$ 807,998 \$ 807,998	\$ -	\$ 807,998 \$ 807,998	5 -
Reesor Road Reesor Road		in Mills th Avenue	2022 - 2031 2022 - 2031	\$ 807,998		s -	0%	ъ – \$ –	s -	5 - e	100%	\$ 807,998	с - С	\$ 807,998	s -
Allstate Parkway		llevwood Dr	2022 - 2031	\$ 345,735		s -	0%	\$ -	s -	s -	100%	\$ 345,735	\$ -	\$ 345,735	s -
Allstate Parkway		plecreek Blvd.	2022 - 2031	\$ 345,735	0%	s -	0%	\$ -	s -	s -	100%	\$ 345,735	\$ -	\$ 345,735	s -
Renfrew Dr	at Val	lleywood Dr	2022 - 2031	\$ 807,998	50%	\$ 403,99	9 0%	\$ -	\$ -	\$ -	50%	\$ 403,999	\$ -	\$ 403,999	\$ -
Applecreek Blvd.		lleywood Dr	2022 - 2031	\$ 345,735		\$ -		\$ -	\$ -	\$ -	100%	\$ 345,735	\$ -	\$ 345,735	\$ -
Markland St		vy 404 Mid-block Crossing	2022 - 2031	\$ 807,998		\$ -		\$ -	\$ -	\$ -	100%	\$ 807,998	\$ -	\$ 807,998	s -
Cachet Wood Crt		ry 404 Mid-block Crossing	2022 - 2031	\$ 807,998	0%	s -		\$ -	s -	s -	100%	\$ 807,998	s -	\$ 807,998	s -
Centurian Drive		ontenac Drive r Oak Ave		\$ 807,998		\$ -		\$ -	s -	s -	100%	\$ 807,998	\$ -	\$ 807,998	\$ - \$ -
Rustlewood Ave Rustlewood Ave		r Uak Ave rnell Centre Blvd.	2022 - 2031 2022 - 2031	\$ 345,735 \$ 345,735	0.0	\$ - \$ -		\$ - \$ -	s - s -	\$ - \$ -	100% 100%	\$ 345,735 \$ 345,735	\$ - \$ -	\$ 345,735 \$ 345,735	s -
Rustlewood Ave Riverlands Ave		esor Rd	2022 - 2031	\$ 345,735 \$ 345,735		s -		ъ - \$ -	s -	s -	100%	\$ 345,735 \$ 345,735	\$ -	\$ 345,735 \$ 345,735	s -
19th Ave		llector Rd 'A'	2022 - 2031	\$ 807,998		s -	0%	s -	s -	s -	100%	\$ 807,998	\$ -	\$ 807.998	s -
Elgin Mills Rd		llector Rd 'D'	2022 - 2031	\$ 807,998		s -	0%	\$ -	s -	s -	100%	\$ 807,998	\$ -	\$ 807,998	\$ -
Elgin Mills Rd		llector Rd 'E'	2022 - 2031	\$ 807,998	0%	\$ -	0%	\$ -	\$ -	\$ -	100%	\$ 807,998	\$ -	\$ 807,998	\$ -
Elgin Mills Rd		llector Rd 'F'	2022 - 2031	\$ 807,998	0%	\$ -	0%	\$ -	s -	s -	100%	\$ 807,998	\$ -	\$ 807,998	\$ -
Elgin Mills Rd		llector Rd 'l'	2022 - 2031	\$ 807,998	0.0	\$ -	0%	\$ -	\$ -	\$ -	100%	\$ 807,998	\$ -	\$ 807,998	\$ -
Elgin Mills Rd		llector Rd 'J'	2022 - 2031	\$ 807,998	0.0	\$ -	0%	\$ -	s -	s -	100%	\$ 807,998	\$ -	\$ 807,998	\$ -
Elgin Mills Rd		llector Rd 'K'	2022 - 2031	\$ 807,998	0.0	\$ -	0%	\$ -	s -	s -	100%	\$ 807,998	\$ -	\$ 807,998	s -
Midland Ave. Old Kennedy Rd.		l Kennedy Rd Jergrove Dr	2022 - 2031 2022 - 2031	\$ 807,998 \$ 345,735		s - s -	0% 0%	\$ - \$ -	\$ - \$ -	S -	100% 100%	\$ 807,998 \$ 345,735	\$ - \$ -	\$ 807,998 \$ 345,735	s -
Old Kennedy Rd. Old Kennedy Rd.		lergrove Dr nison St	2022 - 2031 2022 - 2031	\$ 345,735 \$ 345,735		s - s -		\$ - \$ -	s - s -	s - s -	100%	\$ 345,735 \$ 345,735	s - s -	\$ 345,735 \$ 345,735	s - s -
Rodick Rd		nison St rktech Dr	2022 - 2031 2022 - 2031	\$ 345,735 \$ 807,998	0%	s -	0%	ъ – \$ –	s -	s -	100%	\$ 345,735 \$ 807,998	\$	\$ 345,735 \$ 807,998	\$
Birchmount Rd		rdale Rd	2022 - 2031	\$ 807,998		s -	0%	\$ - \$	s -	s -	100%	\$ 807,998	ş -	\$ 807,998	s -
Birchmount Rd		ugeside Promenade	2022 - 2031	\$ 807,998		\$ -		\$ -	s -	s -	100%	\$ 807,998	\$ -	\$ 807,998	s -
Future Signalized Intersections (6)		ngstaff	2022 - 2031	\$ 2,019,329		\$ -		\$-	s -	s -	100%	\$ 2,019,329	\$ -	\$ 2,019,329	\$ -
	тс	DTAL INTERSECTION		\$ 43,111,194		\$ 403,99	9	\$ 4,272,330	\$ -	\$ 4,272,330		\$ 38,434,865	\$-	\$ 38,434,865	\$ -
												I			



		T	Total	Loca	l - by others		Others Sharin	g and/or Non-Gro	wth Cost	(City-Share		DC Eligible	
Location	From / To	Timing of	Gross Cost	Share	Cost	Share	Gross	Others Cost	Non-growth	Share	Cost	Prior	DC Eligible	Other
		Project	(\$)	(%)	(\$)	(%)	(\$)	(\$)	(\$)	(%)	(\$)	Growth	Costs	Dev. Related
			(+)	()		(,		,		()	,		2022 - 2031	(\$)
3.0 <u>ROADS</u>														
14th Ave Reconstruction	Alden Rd to Hwy 404	2030 - 2031	\$ 15,667,386	0% \$	-	0%	\$ -	s -	s -	100%	\$ 15,667,386	\$ -	\$ 15,667,386	s -
Birchmount Road, 4th lane	Enterprise to Rouge River	2022 - 2022	\$ 4,075,248	82%			\$ -	s -	š -	18%	\$ 727,723	\$ 727,723	\$ -	s -
Cachet Woods Crescent	16th Avenue to Markland Extension	2022 - 2023	\$ 1,467,017	0% \$			\$ -	s -	\$ -	100%	\$ 1,467,017	. ,	\$ 1,467,017	s -
Church Street	9th Line to Bur Oak	2025 - 2026	\$ 5,536,016	0% \$	- 6	0%	\$ -	s -	s -	100%	\$ 5,536,016	\$ -	\$ 5,536,016	s -
City-wide Miscellaneous		2022 - 2031	\$ 4,432,413	0% \$	- 3	0%	\$ -	s -	s -	100%	\$ 4,432,413	\$ -	\$ 4,432,413	\$ -
Commerce Valley East and West Widening		2026 - 2027	\$ 10,450,924	0% \$	- 3	0%	\$ -	s -	s -	100%	\$ 10,450,924	\$ -	\$ 10,450,924	\$ -
Denison St.	Bethany St to east limit of Village of Fairtree	2022 - 2022	\$ 2,277,856	82% 3	1,871,096	0%	\$ -	s -	\$ -	18%	\$ 406,760	\$ 406,760	\$ -	\$ -
Denison St.	East Limit of Village of Fairtree to Golf Course	2022 - 2022	\$ 2,891,884	82% 3	2,375,476	0%	\$ -	s -	s -	18%	\$ 516,408	\$ 516,408	\$ -	s -
Denison St.	Golf Course to 9th Line	2027 - 2028	\$ 3,737,144	0% \$			\$ -	s -	s -	85%	\$ 3,176,573	\$ -	\$ 3,176,573	\$ 560,57
Enterprise Drive (Ph. II)	Rivas Road to Main Street S	2022 - 2022	\$ 2,172,736	82% \$	-,		\$ -	s -	\$ -	18%	\$ 387,989	\$ 387,989	\$ -	\$-
Enterprise Drive, local (Ph. I)	Rivas Road to GO Line	2022 - 2022	\$ 1,067,976	82% \$			\$ -	s -	\$ -	18%	\$ 190,710	\$ 190,710	\$ -	s -
Gorvette Dr	Kennedy Rd to Old Kennedy Ave	2027 - 2028	\$ 1,756,821	82% \$	-,,		\$ -	\$ -	s -	18%	\$ 313,718	\$ -	\$ 313,718	s -
Honda Blvd	Woodbine Bypass to Gas Pipeline	2022 - 2022	\$ 255,927	0% \$			\$ -	s -	s -	100%	\$ 255,927	\$ 255,927	\$ -	\$ -
Honda Blvd	Gas Pipeline to 19th Avenue	2024 - 2025	\$ 2,973,995	82% 3	2,112,020		\$ -	s -	S -	18%	\$ 531,071	\$ - -	\$ 531,071	s -
Kirkham Dr	Karachi Dr. To North Limit of Development	2022 - 2022	\$ 2,592,138	0% \$			\$ -	s -	 -	100%	\$ 2,592,138	\$ 2,592,138	\$ -	3 -
Markham Rd.	Major Mackenzie to Donald Cousens Parkway	2027 - 2028	\$ 5,234,462	0% \$		0.10	\$ -	s -	5 -	100%	\$ 5,234,462	5 - ¢	\$ 5,234,462	3 -
Markland Extension Midland Ave	Cachet Woods Court to Woodbine Avenue Steeles Ave to Old Kennedy Rd	2022 - 2023 2028 - 2029	\$ 7,536,297 \$ 2,626,231	0% \$ 82% \$			\$ - \$ -	s - s -	5 - e	100% 18%	\$ 7,536,297 \$ 468,970	\$ - \$ -	\$ 7,536,297 \$ 468,970	
Miller Ave	Steeles Ave to Old Kennedy Rd Woodbine Ave to Rodick Rd			82% 3			+	s -	 -	18%		÷.	\$ 9.523.553	3 -
Miller Ave Miller Ave	Woodbine Ave to Rodick Rd Warden Ave to Birchmount Rd	2024 - 2025 2026 - 2027	\$ 9,523,553 \$ 4,365,052	0% 3			\$ - \$ -	s -	s -	100%	\$ 9,523,553 \$ 4,365,052	\$ - \$ -	\$ 9,523,553 \$ 4,365,052	5 -
Miller Ave	Birchmount Rd to Duffield Dr	2028 - 2027	\$ 9,871,317	0% 3			ъ – \$ –	s -	 e	85%	\$ 8,390,619	 ¢	\$ 8,390,619	\$ 1,480,69
Reesor Rd Reconstruction	14th Avenue to 1000m N of Highway 7	2028 - 2031 2030 - 2031	\$ 17,406,206	0% 5			\$ - \$	\$ -	s -	100%	\$ 17.406.206	\$ -	\$ 17,406,206	\$ 1,400,05 ¢
Rivas Drive (N-S Connection Road), local	14th Avenue to 1000m N of Fighway 7	2022 - 2022	\$ 721,636	100% \$			\$ - \$	\$ -	¢ .	0%	\$ 17,400,200	÷ ÷	\$ 17,400,200	۰ د
Rivis Road	YMCA Boulevard to Markham Live	2026 - 2027	\$ 1,611,919	0% 5			\$ -	s -	s -	100%	\$ 1,611,919	\$ -	\$ 1,611,919	s -
Rodick Rd	14th Ave to Miller	2023 - 2024	\$ 4,365,052	0% 5			\$ -	s -	ŝ -	100%	\$ 4,365,052	\$ -	\$ 4.365.052	s -
Rougeside Promenade	Warden Ave to 100m East	2026 - 2027	\$ 1,000,000	0% 5			\$ -	s -	s -	100%	\$ 1,000,000	\$ -	\$ 1.000.000	s -
Rougeside Promenade	100m east of Warden Ave to Verdale	2026 - 2027	\$ 1,177,214	82% 9	966,997	0%	\$ -	s -	s -	18%	\$ 210,217	\$ -	\$ 210,217	s -
Sciberras Dr	Highway 7 to Rouge River	2029 - 2030	\$ 3,263,799	0% \$			\$ -	s -	s -	100%	\$ 3,263,799	\$ -	\$ 3,263,799	s -
Verclaire	Highway 7 to Rouge River	2022 - 2022	\$ 2,046,624	82%	1,681,156	0%	\$ -	s -	\$ -	18%	\$ 365,469	\$ 365,469	\$ -	s -
Victoria Square Boulevard	WBP South to Stony Hill Avenue	2023 - 2024	\$ 14,040,319	0% \$			\$ -	\$ -	\$ -	100%	\$ 14,040,319	\$ -	\$ 14,040,319	\$ -
Victoria Square Boulevard	Princess of Wales to WBP North	2024 - 2025	\$ 8,400,688	0% \$	- 3		\$ -	s -	\$ -	100%	\$ 8,400,688	\$ -	\$ 8,400,688	\$ -
Victoria Square Boulevard	Stony Hill Avenue to Princess of Wales	2025 - 2026	\$ 14,502,793	0% \$	- 3	0%	\$ -	s -	s -	100%	\$ 14,502,793	\$ -	\$ 14,502,793	\$ -
East Precint Road Requirements		2028 - 2031	\$ 87,855,138	0% \$	- 3	0%	\$ -	s -	s -	18%	\$ 16,017,950	\$ -	\$ 16,017,950	\$ 71,837,18
YMCA BLVD		2025 - 2026	\$ 2,887,054	0% \$	- 3	0%	\$ -	s -	s -	100%	\$ 2,887,054	\$ -	\$ 2,887,054	\$ -
Yorktech Extension	Rodick Rd to Warden Ave	2023 - 2024	\$ 8,712,103	0% \$	- 6	0%	\$ -	s -	s -	100%	\$ 8,712,103	\$ -	\$ 8,712,103	s -
Miller Ave	Rodick Rd to Warden Ave	2030 - 2031	\$ 7,842,693	0% \$	- 3	0%	\$ -	s -	\$ -	100%	\$ 7,842,693	\$ -	\$ 7,842,693	\$ -
Allstate Pkwy	Hwy 7 to Valleywood	2026 - 2027	\$ 4,108,588	50% 3	2,054,294		\$ -	s -	\$ -	50%	\$ 2,054,294	\$ -	\$ 2,054,294	\$ -
19th Ave (Urbanize)	Hwy 404 to 1000m E of Woodbine Ave	2028 - 2029	\$ 13,542,161	0% \$			\$ -	s -	s -	100%	\$ 13,542,161	\$ -	\$ 13,542,161	\$ -
Allstate Pkwy	Current terminus to 16th Avenue	2027 - 2028	\$ 6,393,676	82% 3	-,		\$ -	s -	\$ -	18%	\$ 1,141,728	\$ -	\$ 1,141,728	\$ -
Allstate Pkwy	Valleywood Dr to Current Terminus	2028 - 2029	\$ 2,626,231	50% 3			\$ -	s -	\$ -	50%	\$ 1,313,115	\$ -	\$ 1,313,115	s -
Applecreek Blvd.	Allstate Pkwy to Woodbine Ave	2028 - 2029	\$ 3,147,877	82% 3			\$ -	s -	s -	18%	\$ 562,121	\$ -	\$ 562,121	s -
Bur Oak Avenue	9th Line to Whites Hill	2022 - 2022	\$ 310,290	0% \$			\$ -	s -	s -	100%	\$ 310,290	\$ 310,290	\$ -	s -
Bur Oak Avenue	Riverlands to Hwy 7	2022 - 2022	\$ 403,070	0% \$			\$ -	s -	\$ -	100%	\$ 403,070	\$ 403,070	\$ -	s -
Bur Oak Avenue	Hwy 7 to Romeo DeGasperis	2024 - 2025	\$ 1,528,256	82% \$ 82% \$			\$ - \$ -	S -	5 - e	18%	\$ 272,903	ъ -	\$ 272,903 \$ 211,095	
William Forester Rd	Hwy 7 to 200m South	2023 - 2024	\$ 1,182,134				\$ - \$ -	 -	5 - e	18%	\$ 211,095 \$ 213,514	а –	+	
Cedar Avenue Extension Cedar Avenue Extension	South Boulevard to North Boulevard North Boulevard to High Tech Road	2022 - 2023 2022 - 2023	\$ 1,195,679 \$ 8,851,360	82% 9 67% 9	982,165 5.900.907		\$ - \$ -	\$ - ¢	5 - e	18% 33%	\$ 213,514 \$ 2,950,453	ъ - с	\$ 213,514 \$ 2,950,453	
Collector Road 'C'		2022 - 2023 2025 - 2026	\$ 8,851,360 \$ 1,048,469	82% \$	5,900,907 5 861.243		s -		 -	33% 18%	\$ 2,950,453 \$ 187,227	ф -	\$ 2,950,453 \$ 187,227	5 -
Elgin Mills Rd	Langstaff Development (East) Warden Ave to Kennedy Rd	2025 - 2028 2024 - 2025	\$ 14,894,577	0% 5	001,243		ъ – \$ –		 -	10%	\$ 14.894.577	ф -	\$ 14,894,577	
Elgin Mills Rd	Kennedy Rd to 1000m E	2024 - 2025 2026 - 2027	\$ 6,780,080	0% 3	-		ъ – \$ –		 -	85%	\$ 5,763,068	 ¢	\$ 5,763,068	\$ 1,017,01
Elgin Mills Rd	Victoria Square to Warden Ave	2026 - 2027 2024 - 2025	\$ 14,894,577	0% 3	-		ъ – \$ –	s -	š -	100%	\$ 14,894,577	\$.	\$ 14,894,577	\$ 1,017,01
FUA - Collector Rd 'A'	Warden Ave to 19th Ave	2022 - 2025	\$ 13,401,650	93%			\$ -	ŝ .	ŝ -	7%	\$ 957.261	ŝ .	\$ 957,261	ŝ
FUA - Collector Rd A	Woodbine Ave to Collector Rd 'A'	2022 - 2028	\$ 1,440,671	93% 3			ъ – \$ –	s -	s -	7%	\$ 102,905	\$ -	\$ 102,905	s -
FUA - Collector Rd 'C'	Collector Rd 'D' to Warden Ave	2022 - 2023 2024 - 2025	\$ 2,125,661	93% 3			\$ -	s -	š -	7%	\$ 151,833	\$ -	\$ 151,833	\$
BG - Street '1' (Collector Rd 'D')	Elgin Mills Rd to Street 'AA'	2022 - 2022	\$ 1,806,438	82% 3			\$ -	s -	s -	18%	\$ 322,578	\$ 322,578	\$ -	s -
FUA - Collector Rd 'D'	Street 'AA' to Street '1'	2023 - 2023	\$ 2,125,661	93%			\$ -	s -	\$ -	7%	\$ 151,833	\$ -	\$ 151,833	\$ -
BG - Street '3' (Collector Rd 'D')	Street '1' to Street '2'	2022 - 2022	\$ 2,201,533	82%			\$ -	s -	s -	18%	\$ 393,131	\$ 393,131	\$ -	\$ -
FUA - Collector Rd 'D'	Street '2' to Warden Ave	2024 - 2025	\$ 3,190,030	93%	2,962,171		\$ -	s -	s -	7%	\$ 227,859	\$ -	\$ 227,859	\$ -
FUA - Collector Rd 'D'	Warden Ave to Kennedy Rd	2026 - 2028	\$ 11.662.829	93%	2,502,171		\$ -	s -	s -	7%	\$ 833,059	\$ -	\$ 833.059	s -
FUA - Collector Rd 'D'	Kennedy Rd to Collector Rd 'N'	2026 - 2027	\$ 8,501,337	93%			\$ -	s -	š -	7%	\$ 607,238	\$ -	\$ 607,238	s -
FUA - Collector Rd 'D'	19th Ave to Elgin Mills Rd	2028 - 2029	\$ 11,662,829	93%			\$ -	s -	s -	7%	\$ 833,059	\$ -	\$ 833,059	\$ -
BG - Street 'A' (Collector Rd 'E')	Street 'C' to Elgin Mills Road	2022 - 2022	\$ 423,989	82% 9			\$ -	s -	š -	18%	\$ 75,712	\$ 75,712		\$ -
FUA - Collector Rd 'E'	Elgin Mills Rd to North end Hydro Corridor	2026 - 2027	\$ 3,179,492	93% 3			\$ -	s -	š -	7%	\$ 227,107	\$ -	\$ 227,107	\$ -
BG - Street 'L'/'2' (Collector Road 'F')	Elgin Mills to Street 'K'/'5'	2022 - 2022	\$ 1,828,886	82%			\$ -	s -	s -	18%	\$ 326,587	\$ 326,587	\$ -	s -
BG - Street 'L' (Collector Road 'F')	Street 'K'/'5' to Street 'V'	2022 - 2022	\$ 1,918,681	82%		0%	\$ -	s -	s -	18%	\$ 342,622		\$ -	\$ -
. ,					. ,	1		1			.,	.,	1	1



		Timber	Total	Loca	- by others		Others Sharin	g and/or Non-Gr	owth Cost		City-Sha	are		DC Eligible		
Location	From / To	Timing of Project	Gross Cost	Share	Cost	Share	Gross	Others Cost	Non-growth	Share		Cost	Prior	DC Eligible	0	Other
		Froject	(\$)	(%)	(\$)	(%)	(\$)	(\$)	(\$)	(%)		(\$)	Growth	Costs	Dev.	. Relat
														2022 - 2031		(\$)
BG - Street '2' (Collector Road 'F')	Street 'V to Warden Ave	2022 - 2022	\$ 4,621,490	82% 3	3,796,224	0%	\$-	\$ -	\$ -	18%	\$	825,266	\$ 825,266	\$ -	\$	
BG - Street 'AA' (Collector Rd 'G')	West Hydro Corridor to Block 335	2022 - 2022	\$ 4,522,716	82% 3	3,715,088	0%	\$ -	\$ -	\$ -	18%	\$	807,628	\$ 807,628	\$ -	\$	
FUA - Collector Rd 'G'	Block 335 to Warden Ave	2024 - 2025	\$ 5,968,631	63% 3	3,730,394	0%	\$ -	s -	s -	38%	\$	2,238,237	\$ -	\$ 2,238,23	7 \$	
FUA - Collector Rd 'G'	Warden Ave to Kennedy Rd	2025 - 2026	\$ 14,556,473	63% 3	9,097,796	0%	\$ -	s -	s -	38%	\$	5,458,677	\$ -	\$ 5,458,67	7 \$	
FUA - Collector Rd 'G'	Kennedy Rd to East Dead End	2026 - 2027	\$ 4,548,594	63% 3	2,842,871	0%	\$ -	\$ -	\$-	38%	\$	1,705,723	\$ -	\$ 1,705,72	3 \$	
FUA - Collector Rd 'H'	West Hydro Corridor to Street '8'	2027 - 2028	\$ 4,628,509	93% 3	4,297,901	0%	\$-	\$ -	\$ -	7%	\$	330,608	\$ -	\$ 330,60	8 \$	
BG - Street '1' (Collector Rd 'H')	Street '8' to Warden Ave	2022 - 2022	\$ 4,545,165	82% 3	3,733,528	0%	\$-	\$ -	s -	18%	\$	811,637	\$ 811,637	\$ -	\$	
FUA - Collector Rd 'H'	Warden Ave to Major Mackenzie Dr	2024 - 2028	\$ 11,662,829	93%	10,829,770	0%	\$ -	s -	s -	7%	\$	833,059	\$ -	\$ 833,05	9 \$	
FUA - Collector Rd 'I"	Major Mackenzie Dr. to Elgin Mills Rd	2024 - 2028	\$ 10,977,839	93%	10,193,708	0%	\$ -	\$ -	\$ -	7%	\$	784,131	\$ -	\$ 784,13	1 \$	
FUA - Collector Rd 'J'	Major Mackenzie Dr. to Elgin Mills Rd	2024 - 2028	\$ 11,662,829	93%	10,829,770	0%	\$ -	\$ -	\$ -	7%	\$	833,059	\$ -	\$ 833,05	9 \$	
FUA - Collector Rd 'K'	Major Mackenzie Dr. to Elgin Mills Rd	2024 - 2028	\$ 12,347,819	93%	11,465,832	0%	\$-	\$ -	\$ -	7%	\$	881,987	\$ -	\$ 881,98	7 \$	
FUA - Collector Rd 'L'	Major Mackenzie Dr. to Collector Rd 'D'	2024 - 2028	\$ 2,494,502	93% 3	2,316,323	0%	\$-	\$ -	\$ -	7%	\$	178,179	\$ -	\$ 178,17	9 \$	
FUA - Collector Rd 'M'	Major Mackenzie Dr. to Collector Rd 'D'	2024 - 2028	\$ 2,494,502	93% 3	2,316,323	0%	\$ -	\$ -	s -	7%	\$	178,179	\$-	\$ 178,17	9 \$	
FUA - Collector Rd 'N'	Major Mackenzie Dr to Collector Rd ' D'	2024 - 2028	\$ 2,494,502	93% 3	2,316,323	0%	\$ -	s -	\$ -	7%	\$	178,179	\$-	\$ 178,17	9 \$	
FUA - Collector Rd 'P'	Collector Rd 'J' to Kennedy Rd	2025 - 2026	\$ 729,336	93% \$	677,241	0%	\$ -	\$ -	\$ -	7%	s	52,095	\$ -	\$ 52,09	5 \$	
FUA - Collector Rd 'P'	Kennedy Rd to Collector Rd 'K'	2026 - 2027	\$ 1,440,671	93%	1,337,766	0%	\$ -	\$ -	\$ -	7%	\$	102,905	\$ -	\$ 102,90	5 \$	
Future Donald Cousen Pkwy	19th Ave to Warden Ave	2027 - 2030	\$ 8,132,496	82%	6,680,265	0%	\$ -	\$ -	\$ -	18%	\$	1,452,231	\$ -	\$ 1,452,23	1 \$	
Langstaff Road	Bayview Avenue to South Limit (External)	2024 - 2025	\$ 3,330,223	0% \$	-	0%	\$ -	s -	s -	100%	s	3,330,223	\$ -	\$ 3,330,22	3 \$	
angstaff North Boulevard	South Blvd W to South Blvd E	2025 - 2026	\$ 12,310,026	82%	10,111,807	0%	\$ -	s -	s -	18%	s	2,198,219	\$ -	\$ 2,198,21	9 \$	
Langstaff South Boulevard	Yonge Street to Langstaff North Boulevad	2026 - 2027	\$ 11,058,742	82% 3	9,083,966	0%	\$ -	s -	s -	18%	s	1,974,775	\$ -	\$ 1,974,77	5 \$	
Gorvette Rd Extension	Denison Avenue to Kennedy Rd	2028 - 2029	\$ 2,916,034	82%	2,395,314	0%	\$ -	s -	s -	18%	\$	520,720	\$ -	\$ 520,72	\$	
Valleywood Dr	Allstate Pkwy to Applecreek Blvd.	2025 - 2026	\$ 4,365,052	50% 3	2,182,526	0%	\$ -	s -	s -	50%	s	2,182,526	\$ -	\$ 2,182,52	6 \$	
Verdale Gate	Birchmount Rd to Post Rd	2022 - 2022	\$ 1,177,214	82% \$	966,997	0%	\$ -	s -	\$ -	18%	\$	210,217	\$ 210,217	\$ -	\$	
Verdale Gate	Post Rd to Enterprise Dr	2022 - 2022	\$ 3,205,838	82%	2,633,367	0%	\$ -	s -	s -	18%	\$	572,471	\$ 572,471	\$ -	s	
Yorkdowns - Collector Rd	East Development	2023 - 2024	\$ 9,001,907	82%	7,394,423	0%	\$ -	s -	s -	18%	s	1,607,483	\$ -	\$ 1,607,48	3 \$	
Yorkdowns - Collector Rd	West Development	2024 - 2025	\$ 3,785,445	82% 3	3,109,472	0%	\$ -	s -	s -	18%	\$	675,972	\$ -	\$ 675,97	2 \$	
William Forester Rd	Hwy 7 to Arthur Bonner	2023 - 2024	\$ 280,825	0% \$		0%	\$ -	s -	s -	100%	\$	280,825	\$ 280,825	\$ -	\$	
Reesor Rd	Riverlands to Hwy 7	2029 - 2030	\$ 2,481,329	82% 3	2,038,235	0%	\$ -	s -	s -	18%	\$	443,095	\$ -	\$ 443,09	5 \$	
404 North Collector Road A	Woodbine Avenue to 19th Avenue	2030 - 2031	\$ 3,535,735	82% 3	2,904,354	0%	\$ -	\$ -	\$ -	18%	\$	631,381	\$ -	\$ 631,38	1 \$	
404 North Collector Road B	19th Avenue to 60m North	2029 - 2030	\$ 357,368	82% 3	293,552	0%	\$ -	s -	s -	18%	s	63,816	\$ -	\$ 63,81	6 \$	
404 North Collector Road D	Cul-de-sac to Honda Boulevard	2029 - 2030	\$ 2,304,035	82%		0%		s -	s -	18%	\$	411,435	\$ -	\$ 411,43	5 \$	
404 North Collector Road D	Honda Boulevard to Road E1	2024 - 2025	\$ 2,382,864	82% 3		0%	\$-	s -	s -	18%	\$	425,511	\$ -	\$ 425,51	1 \$	
04 North Collector Road D	Road E1 to Woodbine Avenue	2025 - 2026	\$ 1,318,675	82%		0%		s -	s -	18%	\$	235,478	\$ -	\$ 235,47	8 \$	
04 North Collector Road D	Within Hydro Corridor	2025 - 2025	\$ 407,992	0% 5	-,,	0%	\$ -	s -	s -	100%	\$	407,992	\$ -	\$ 407,99	2 \$	
04 North Collector Road E1	Road D to south limit of Enbridge Property	2027 - 2028	\$ 875,188	0% \$		0%	\$ -	\$ -	\$ -	100%	\$	875,188	\$ -	\$ 875,18	8 \$	
04 North Collector Road E1	South limit of Enbridge Property to Woodbine Avenue	2028 - 2029	\$ 4,264,977	82%	3,503,374	0%	\$-	s -	s -	18%	\$	761,603	\$ -	\$ 761,60		
04 North Collector Road (Full ROW)	S . , .	2024 - 2024	\$ 1,576,524	0% \$		0%		s -	s -	100%	s	1,576,524	\$ -	\$ 1,576,52	4 \$	
toyal Orchard Extension	External to Subdivision	2023 - 2024	\$ 1,178,397	0% \$	-	0%	\$ -	s -	s -	100%	s	1,178,397	\$ -	\$ 1,178,39	7 \$	
Royal Orchard Extension	Within the plan of subdivision	2024 - 2025	\$ 1,295,317	82% 3		0%	\$ -	s -	s -	18%	s	231,307	\$ -	\$ 231,30	7 \$	
Collector Road 'G' (Stony Hill)	Hydro Crossing	2022 - 2022	\$ 192,496	0% 5		0%	•	\$ -	\$ -	10%	ŝ	192,496	\$ -	\$ 192,49	6 \$	
Collector Road 'H' (Vine Cliff)	Hydro Crossing	2022 - 2022	\$ 192,496	0% 5		0%	•	\$ -	\$ -	100%	ŝ	192,496	\$ -	\$ 192,49	6 5	
Rinas Avenue	Hydro Crossing Hydro Crossing	2022 - 2022	\$ 192,496	0% 5		0%	•	\$ -	\$ -	100%	9 S	192,496	\$ -	\$ 192,49	6 \$	
			A		243.553.583		•	¢	¢			286.089.387	é 11 125 155	\$ 274.964.23	2	
	TOTAL ROADS		\$ 604,538,439		243,553,583	:	\$-	s -	\$-		2	200,089,387	\$ 11,125,155	\$ 214,964,23	2 \$	74,



			Total	Loca	- by others		Others Sharin	g and/or Non-Gı	owth Cost		City-Share	e		DC Eligible	
Location	From / To	Timing of	Gross Cost	Share	Cost	Share	Gross	Others Cost	Non-growth	Share	(Cost	Prior	DC Eligible	Other
		Project	(\$)	(%)	(\$)	(%)	(\$)	(\$)	(\$)	(%)		(\$)	Growth	Costs	Dev. Relate
														2022 - 2031	(\$)
								_			-				
PROPERTIES ACQUISITION - ROADS & S															
Miller Ave	Warden to Kennedy	2026 - 2031	\$ 24,178,197	0% \$	-	0% \$		s -	s -	100%	\$	24.178.197	\$ -	\$ 24,178,197	\$
City-wide Land Acquisition (Roads)	warden to Kennedy	2020 - 2031	\$ 9,419,250	0% \$	_	0% 9		s -	s -	100%	s	9.419.250	\$ \$-	\$ 9,419,250	с с
Denison Street	Bethany St to east limit of Village of Fairtree	2022 - 2031	\$ 1,087,307	82% \$	893,145	0% 9		s -	s -	18%	ŝ	194,162	\$ 194,162	\$ -	¢.
Denison Street	East Limit of Vilalge of Fairtree to Golf Course	2022 - 2022	\$ 2,782,484	82% \$		0% 9		s -	s -	18%	s s	496,872	\$ 496,872	\$ -	¢
Denison Street	Golf Course to 9th Line	2022 - 2022 2027 - 2028	\$ 8,876,739	0% \$	2,203,012	0% 9		s -	s -	100%	s	8,876,739	¢ 450,072	\$ 8,876,739	¢
York Tech Extension	Rodick to Warden	2023 - 2024	\$ 22,632,688	0% \$	-	0% 9		s -	s -	100%	-	22,632,688	ф –	\$ 22,632,688	э e
Commerce Valley East and West Widening	Rodick to warden	2023 - 2024 2026 - 2027	\$ 22,032,088	0% \$	-	0% 3		s -	s -	100%	s .	8,690,891	- -	\$ 8,690,891	3
			+ -,,		-						-		ъ -		5
Land Acquisition for Active Transporation I		2022 - 2031	\$ 4,405,250 \$ 2,624,190	0% \$	1.749.547			s -	s - s -	100%	s s	4,405,250	5 -	\$ 4,405,250 \$ 874,643	3
Mid-block Crossing Hwy 404 property	Major Mackenzie to Elgin Mills	2029 - 2030	+ -,,	67% \$	1,749,547	0% \$		s -	•	33%	-	874,643	5 -	÷	3
Ramps to Hwy 404 Property	Major Mackenzie	2025 - 2026	010051011	0% \$	-	0% \$		s -	\$ -	100%	s	3,502,644	\$ -	\$ 3,502,644	\$
Allstate Pkwy	Hwy 7 to Valleywood	2026 - 2027	\$ 2,712,791	50% \$ 0% \$	1,356,396	0% \$		\$ -	\$ -	50%	s	1,356,396	\$ -	\$ 1,356,396	\$
19th Ave (Urbanize)	Hwy 404 to 1000m E of Woodbine Ave	2028 - 2029	\$ 3,697,784	0,0 4	-	0% 9		\$ -	\$ -	100%	\$	3,697,784	\$ -	\$ 3,697,784	5
Aldergrove Dr Extension	Street 'C' to Old Kennedy Rd	2025 - 2026	\$ 2,703,499	0% \$	-	0% \$		s -	\$ -	100%	s	2,703,499	\$ -	\$ 2,703,499	\$
Allstate Pkwy	Hooper Rd. to 16th Avenue	2026 - 2027	\$ 4,106,649	0% \$		0% \$		s -	\$ -	100%	S	4,106,649	\$ -	\$ 4,106,649	\$
Allstate Pkwy	Valleywood Dr to Hooper Road	2026 - 2027	\$ 1,318,934	50% \$	659,467	0% \$		\$ -	s -	50%	\$	659,467	\$ -	\$ 659,467	\$
Applecreek Blvd.	Allstate Pkwy to Woodbine Ave	2024 - 2025	\$ 2,025,155	0% \$	-	0% \$		\$ -	\$ -	100%	\$	2,025,155	\$ -	\$ 2,025,155	\$
Birchmount Road	Verclaire Gate to Rouge River	2022 - 2022	\$ 1,098,925	0% \$		0% \$		\$ -	\$ -	100%	\$	1,098,925	\$ 1,098,925	\$ -	\$
Bur Oak Avenue	9th Line to Whites Hill	2022 - 2022	\$ 434,623	0% \$		0% \$	-	\$ -	\$ -	100%	\$	434,623	\$ 434,623	\$ -	\$
Bur Oak Avenue	Riverlands to Hwy 7	2022 - 2022	\$ 356,848	0% \$		0% \$	-	\$ -	\$ -	100%	\$	356,848	\$ 356,848	\$ -	\$
Bur Oak Avenue	Hwy 7 to Romeo DeGasperis	2022 - 2022	\$ 635,954	0% \$		0% \$	-	\$ -	\$ -	100%	\$	635,954	\$ 635,954	\$ -	\$
Cedar Avenue Extension	Langstaff South to Langstaff North	2022 - 2023	\$ 761,391	0% \$	-	0% \$	-	s -	\$ -	100%	\$	761,391	\$ -	\$ 761,391	\$
Collector Road 'C'	Langstaff Development (East)	2025 - 2026	\$ 668,467	0% \$	-	0% \$	-	s -	\$ -	100%	\$	668,467	\$ -	\$ 668,467	\$
Elgin Mills Rd	Warden Ave to Kennedy Rd	2024 - 2025	\$ 6,150,973	0% \$	-	0% \$	- 6	\$-	\$ -	100%	\$	6,150,973	\$ -	\$ 6,150,973	\$
Elgin Mills Rd	Kennedy Rd to 1000m E	2026 - 2027	\$ 2,805,715	0% \$	-	0% \$	- 6	\$ -	\$ -	85%	\$	2,384,858	\$ -	\$ 2,384,858	\$ 4
Elgin Mills Rd	Victoria Square to Warden Ave	2024 - 2025	\$ 6,150,973	0% \$	-	0% \$	- 6	s -	\$ -	100%	\$	6,150,973	\$ -	\$ 6,150,973	\$
Enterprise Drive	Warden Avenue to Sciberras Drive	2022 - 2022	\$ 507,250	0% \$	-	0% \$	- 6	s -	\$ -	100%	\$	507,250	\$ 507,250	\$ -	\$
Frontenac Dr. Extension	Valleywood Dr to Hooper Road	2027 - 2028	\$ 1,690,629	0% \$	-	0% \$	- 6	s -	\$ -	100%	\$	1,690,629	\$ -	\$ 1,690,629	\$
Frontenac Dr. Extension	Hooper Road to Allstate Pkwy	2026 - 2027	\$ 612,713	0% \$	-	0% \$	- 6	s -	\$ -	100%	\$	612,713	\$ -	\$ 612,713	\$
FUA - Collector Rd 'A'	Warden Ave to 19th Ave	2022 - 2026	\$ 3,558,398	0% \$	-	0% \$	- 6	\$-	\$ -	100%	\$	3,558,398	\$ -	\$ 3,558,398	\$
FUA - Collector Rd 'B'	Woodbine Ave to Collector Rd 'A'	2022 - 2023	\$ 389,700	0% \$	-	0% \$	- 6	s -	s -	100%	\$	389,700	\$ -	\$ 389,700	s
FUA - Collector Rd 'C'	Collector Rd 'D' to Warden Ave	2024 - 2025	\$ 575,543	0% \$	-	0% \$	-	\$ -	\$ -	100%	\$	575,543	\$ -	\$ 575,543	\$
BG - Street '1' (Collector Rd 'D')	Elgin Mills Rd to Street 'AA'	2022 - 2022	\$ 455,573	0% \$	-	0% \$	- 6	s -	\$ -	100%	\$	455,573	\$ 455,573	\$ -	\$
FUA - Collector Rd 'D'	Street 'AA' to Street '1'	2023 - 2023	\$ 575,543	0% \$	-	0% \$	- 6	s -	\$ -	100%	\$	575,543	\$ -	\$ 575,543	\$
BG - Street '3' (Collector Rd 'D')	Street '1' to Street '2'	2022 - 2022	\$ 455,573	0% \$	-	0% \$	- 6	\$ -	\$ -	100%	\$	455,573	\$ 455,573	\$ -	\$
FUA - Collector Rd 'D'	Street '2' to Warden Ave	2024 - 2025	\$ 972,792	0% \$	-	0% \$	- 6	\$ -	\$ -	100%	\$	972,792	\$ -	\$ 972,792	\$
FUA - Collector Rd 'D'	Warden Ave to Kennedy Rd	2026 - 2028	\$ 3,098,425	0% \$	-	0% \$	- 3	s -	\$ -	100%	s	3,098,425	\$ -	\$ 3,098,425	s
FUA - Collector Rd 'D'	Kennedy Rd to Collector Rd 'N'	2026 - 2027	\$ 2,262,111	0% \$		0% \$	-	s -	s -	100%	s	2,262,111	\$ -	\$ 2,262,111	\$
FUA - Collector Rd 'D'	19th Ave to Elgin Mills Rd	2028 - 2029	\$ 3.098.425	0% \$		0% \$	- 6	s -	s -	100%	s	3,098,425	s -	\$ 3.098.425	\$
BG - Street 'A' (Collector Rd 'E')	Street 'C' to Elgin Mills Road	2022 - 2022	\$ 105,880	0% \$		0% \$		s -	s -	100%	s	105,880	\$ 105,880	\$ -	\$
FUA - Collector Rd 'E'	Elgin Mills Rd to North end Hydro Corridor	2026 - 2027	\$ 854,315	0% \$		0% \$		\$ -	\$ -	100%	s	854,315	\$ -	\$ 854,315	\$
BG - Street 'L'/'2' (Collector Road 'F')	Elgin Mills to Street 'K'/'5'	2022 - 2022	\$ 461,301	0% \$		0% \$		\$ -	\$ -	100%	s	461,301	\$ 461,301	\$ -	s
BG - Street 'L' (Collector Road 'F')	Street 'K'/'5' to Street 'V'	2022 - 2022	\$ 487.654	0% \$		0% 9		\$ -	\$ -	100%	s	487,654	\$ 487.654	s -	s
BG - Street '2' (Collector Road 'F')	Street V to Warden Ave	2022 - 2022	\$ 1.156.912	0% \$		0% 9		s -	s -	100%	s	1.156.912	\$ 1.156.912	s -	17



		Timber	Total	Loca	- by others		Others Sharir	ng and/	or Non-Grow	rth Cost		С	ity-Share			DC Eligible	
Location	From / To	Timing of	Gross Cost	Share	Cost	Share	Gross	Ot	thers Cost	Non-gro	owth	Share	Cost		Prior	DC Eligible	Other
		Project	(\$)	(%)	(\$)	(%)	(\$)		(\$)	(\$))	(%)	(\$)		Growth	Costs	Dev. Relat
																2022 - 2031	(\$)
3G - Street 'AA' (Collector Rd 'G')	West Hydro Corridor to Block 427	2022 - 2022	\$ 1,132,719	0% \$	-	0%	\$-	s	-	s	-	100%	\$ 1,1	32,719	\$ 1,132,719	\$ -	\$
FUA - Collector Rd 'G'	Block 427 to Warden Ave	2024 - 2025	\$ 6,150,973	0% \$	-	0%	\$ -	s	-	\$	-	100%	\$ 6,1	50,973	\$ -	\$ 6,150,973	\$
FUA - Collector Rd 'G'	Warden Ave to Kennedy Rd	2025 - 2026	\$ 15,001,968	0% \$	-	0%	\$ -	s	-	s	-	100%	\$ 15,0	01,968	\$ -	\$ 15,001,968	\$
FUA - Collector Rd 'G'	Kennedy Rd to East Dead End	2026 - 2027	\$ 4,687,423	0% \$	-	0%	s -	\$	-	\$	-	100%		37,423	\$ -	\$ 4,687,423	
FUA - Collector Rd 'H'	West Hydro Corridor to Warden Ave	2027 - 2028	\$ 2,638,452	0% \$	-	0%	s -	\$	-	\$	-	100%		38,452	s -	\$ 2,638,452	
FUA - Collector Rd 'H'	Warden Ave to Major Mackenzie Dr	2022 - 2022	\$ 3,098,425	0% \$		0%	\$ -	\$	-	\$	-	100%			\$ 3,098,425	\$ -	s
FUA - Collector Rd 'I"	Major Mackenzie Dr. to Elgin Mills Rd	2024 - 2028	\$ 2,917,224	0% \$	-	0%	\$ -	s	-	s	-	100%	\$ 2,9	17,224	\$ -	\$ 2,917,224	\$
FUA - Collector Rd 'J'	Major Mackenzie Dr. to Elgin Mills Rd	2024 - 2028	\$ 3,098,425	0% \$	-	0%	\$ -	s	-	s	-	100%		98,425	\$ -	\$ 3,098,425	\$
FUA - Collector Rd 'K'	Major Mackenzie Dr. to Elgin Mills Rd	2024 - 2028	\$ 3,279,627	0% \$		0%	\$ -	s		s	-	100%		79,627	\$ -	\$ 3,279,627	\$
FUA - Collector Rd 'L'	Major Mackenzie Dr. to Collector Rd 'D'	2024 - 2028	\$ 673,113	0% \$	-	0%	• \$ -	s		\$	-	100%		73,113	\$ -	\$ 673,113	\$
FUA - Collector Rd 'M'	Major Mackenzie Dr. to Collector Rd 'D'	2024 - 2028	\$ 673,113	0% \$		0%		ŝ		\$	-	100%	-	73,113	\$ -	\$ 673,113	\$
FUA - Collector Rd 'N'	Major Mackenzie Dr to Collector Rd ' D'	2024 - 2028	\$ 673,113	0% \$		0%	• \$ -	ŝ		\$	-	100%		73,113	\$ -	\$ 673.113	s
FUA - Collector Rd 'P'	Collector Rd 'J' to Kennedy Rd	2024 - 2028	\$ 196,350	0% \$		0%	•	s		s		100%		96,350	\$ -	\$ 196,350	
FUA - Collector Rd 'P'	Kennedy Rd to Collector Rd 'K'	2025 - 2026	\$ 389,700	0% 5		0%	•	s		s		100%		39,700	\$ -	\$ 389,700	\$
Future Donald Cousen Pkwy	19th Ave to Warden Ave	2026 - 2027	\$ 3,363,258	0% 5		0%	•	s	-	s		100%	-	53,258	s -	\$ 3.363.258	\$
Gorvette Rd Extension	Kennedy Rd to Old Kennedy Rd	2029 - 2030	\$ 1,360,749	0% \$		0%	•	s		s		100%		50,749	s -	\$ 1,360,749	\$
Honda Blvd	Woodbine Bypass to Gas Pipeline	2022 - 2022	\$ 421,159	0% \$		0%	•	ŝ		ŝ	-	100%		21,159	\$ 421,159	\$ -	\$
Honda Blvd	Gas Pipeline to 19th Avenue	2022 - 2022	\$ 2,292,775	0% 3		0%	•	ŝ		s		100%	•	2,775	\$ 421,155	\$ 2,292,775	ŝ
_angstaff Road	Bayview Avenue to South Limit (External)	2024 - 2024	\$ 6,987,288	0% 5		0%	Ŷ	s		s		100%		37,288	\$ -	\$ 6,987,288	÷
angstaff Road North	Langstaff Road South to Bayview Avenue	2025 - 2025	\$ 7,312,521	0% 3		0%		s		s		100%	• -,-	12,521	¢	\$ 7,312,521	
angstaff Road South	Yonge Street to Langstaff Road North	2025 - 2025	\$ 6,662,054	0% 5		0%	•	s	-	s		100%		52.054	ф –	\$ 6,662,054	¢
-	Steeles Ave. to Old Kennedy Road	2028 - 2028	\$ 0,002,034 \$ 3,177,410	0% 3		0%	Ψ	s	-	3 S	-	100%		77,410		\$ 0,002,054 \$ 3,177,410	5
Vidland Ave Extension Renfrew Drive			\$ 4,218,157	0% 3		0%	•	s s	-	5 S	-			18,157	s -	\$ 3,177,410 \$ 4,218,157	
	Frontenac Dr to Hooper Rd.	2027 - 2028 2026 - 2027	\$ 3,214,580			0%	Ŷ	s	-	5	-	100% 100%		L4,580	a -	\$ 3,214,580	
Renfrew Drive	Hooper Road to Allstate Pkwy			0% \$ 50% \$		0%	•	s	-	s	-	50%		02,858	a -		
/alleywood Dr /erdale Gate	Allstate Pkwy to Applecreek Blvd. Birchmount Rd to Post Rd			0% 5				s	-			100%	. ,				5
			+ -,,				•		-	s	-			19,867	5 -	¢ 2,010,001	\$
Verdale Gate	Post Rd to Enterprise Dr	2024 - 2024	\$ 7,173,135	0% \$		0%	Ψ	s	-	s	-	100%	v 111	73,135	s -	\$ 7,173,135	\$
Yorkdowns - Collector Rd	East Development	2023 - 2024 2024 - 2025	\$ 7,219,597 \$ 3.038.025	0% \$		0% 0%	•	\$ \$	-	\$	-	100%		19,597	5 -	\$ 7,219,597 \$ 3,038,025	3
rorkdowns - Collector Rd	West Development		+ -,	0% \$			•		-	\$	-	100%		38,025	3 -		5
William Forester Rd	Hwy 7 to 200m South	2022 - 2022	\$ 490,078	0% \$		0%	•	s	-	s	-	100%		90,078	\$ 490,078	\$ -	5
William Forester Rd	Hwy 7 to Arthur Bonner	2023 - 2024	\$ 289,444	0% \$		0%	•	s	-	s	-	100%		39,444	\$ 289,444	\$ -	3
Reesor Rd	Riverlands to Hwy 7	2028 - 2029	\$ 1,597,705	0% \$		0%	Ŷ	s	-	s	-	100%		97,705	5 -	\$ 1,597,705	
404 North Collector Road A	Woodbine Avenue to 19th Avenue	2030 - 2031	\$ 373,468	0% \$		0%	•	s	-	s	-	100%		73,468	5 -	\$ 373,468	\$
404 North Collector Road B	19th Avenue to 60m North	2029 - 2030	\$ 47,059	0% \$		0%		s	-	s	-	100%		17,059	5 -	\$ 47,059	\$
104 North Collector Road D	Cul-de-sac to Honda Boulevard	2029 - 2030	\$ 736,611	0% \$		0%	•	\$	-	\$	-	100%		36,611	5 -	\$ 736,611	2
404 North Collector Road D	Honda Boulevard to Road E1	2024 - 2025	\$ 761,391	0% \$		0%	•	s	-	s	-	100%		51,391	5 -	\$ 761,391	S
404 North Collector Road D	Road E1 to Woodbine Avenue	2025 - 2026	\$ 423,118	0% \$		0%	•	s	-	S	-	100%		23,118	5 -	\$ 423,118	\$
404 North Collector Road D	Within Hydro Corridor	2025 - 2025	\$ 711,831	0% \$		0%	•	\$	-	S	-	100%		11,831	\$ -	\$ 711,831	\$
104 North Collector Road E1	Road D to south limit of Enbridge Property	2027 - 2028	\$ 1,353,625	0% \$		0%	•	s	-	s	-	100%		53,625	S -	\$ 1,353,625	\$
104 North Collector Road E1	South limit of Enbridge Property to Woodbine Avenue	2028 - 2029	\$ 419,299	0% \$		0%	•	\$	-	\$	-	100%		19,299	s -	\$ 419,299	
04 North Collector Road (Full ROW)		2024 - 2024	\$ 2,446,410	0% \$		0%	•	\$	-	\$	-	100%		46,410	5 -	\$ 2,446,410	
Royal Orchard Extension	Within the plan of subdivision	2024 - 2025	\$ 2,511,456	0% \$		0%	•	\$	-	S	-	100%		11,456	\$ -	\$ 2,511,456	\$
Collector Road 'G' (Stony Hill)	Hydro Crossing	2022 - 2022	\$ 766,037	0% \$		0%	•	\$	-	\$	-	100%		66,037	\$ -	\$ 766,037	\$
Collector Road 'H' (Vine Cliff)	Hydro Crossing	2022 - 2022	\$ 766,037	0% \$		0%	•	\$	-	S	-	100%		66,037	\$ -	\$ 766,037	\$
Rinas Avenue	Hydro Crossing	2022 - 2022	\$ 766,037	0% \$	-	0%	\$-	s	-	\$	-	100%	\$ 7	66,037	\$ -	\$ 766,037	\$
	TOTAL PROPERTIES ACQUISITION		\$ 266,083,580	5	8,347,025		\$-	\$		\$	-		\$ 257,33	5,698	\$ 12,279,353	\$ 245,036,345	\$
	TOTAL PROPERTIES ACQUISITION		\$ 200,083,580		0,347,025	ľ	ə -	3	-	3			\$ 257,3	5,098	3 12,279,353	a 245,036,345	3

			T	Total	Loc	al - by others		Others Sharing	g and/or Non-G	rowth	COSL		City-Sł	nare			DC Eligible	
Location		From / To	Timing of	Gross Cost	Share	Cost	Share	Gross	Others Cos	st	Non-growth	Share		Cost	Prior		DC Eligible	Other
			Project	(\$)	(%)	(\$)	(%)	(\$)	(\$)		(\$)	(%)		(\$)	Growth		Costs	Dev. Related
																	2022 - 2031	(\$)
SIDEWALKS																		
Miscellaneous new sidewalks			2022 - 2031	\$ 2,086,275	0%	s -	0%	\$ -	s -		s -	100%	s	2,086,275	\$	- \$	2,086,275	\$ -
Donald Cousens Parkway	B.S.	Ninth Line to Highway 407	2022 - 2031	\$ 709,562	0%	s -	0%	\$ -	s -		s -	100%	\$	709,562	\$	- \$	709,562	\$
Donald Cousens Parkway	S.S.	Highway 7 to 500m North of Highway 7	2022 - 2031	\$ 65,960	0%	\$ -	0%	\$ -	s -	9	s -	100%	s	65,960	\$	- \$	65,960	\$ -
Highway 7 E	B.S.	9th to Donald Cousens Parkway	2022 - 2031	\$ 1,146,216	0%	s -	0%	\$ -	s -		s -	100%	s	1,146,216	\$	- \$	1,146,216	\$ -
Main St. north, Markham	B.S.	Major Mackenzie to Donald Cousens Parkway	2022 - 2031	\$ 547,051	0%	s -	0%	\$ -	\$ -	\$	\$ -	100%	\$	547,051	\$	- \$	547,051	\$ -
Major Mackenzie	B.S.	Markland St to Highway 404	2022 - 2031	\$ 613,663	0%	\$ -	0%	\$ -	\$ -		- 8	100%	\$	613,663	\$	- \$	613,663	s -
Major Mackenzie	S.S.	Donald Cousens Parkway to Ninth Line	2022 - 2031	\$ 411,038	0%	\$ -	0%	\$ -	s -		s -	100%	\$	411,038	\$	- \$	411,038	\$ -
Miller Avenue	B.S.	Woodbine Ave. to Rodick Rd.	2022 - 2031	\$ 1,103,431	0%	s -	0%	\$ -	s -		s -	100%	s	1,103,431	\$	- \$	1,103,431	\$ -
Miller Ave. Extension	B.S.	Warden Ave. to Birchmount Rd.	2022 - 2031	\$ 1,076,957	0%	s -	0%	\$ -	s -		s -	100%	s	1,076,957	\$	- \$	1,076,957	\$ -
Miller Ave. Extension	B.S.	Birchmount Rd. to Duffield Drive	2022 - 2031	\$ 2,268,283	0%	\$ -	0%	\$ -	\$ -		\$ -	100%	s	2,268,283	\$	- \$	2,268,283	\$ -
Ninth Line	W.S.	Donald Cousens Parkway to Major Mackenzie	2022 - 2031	\$ 411,038	0%	\$ -	0%	\$ -	\$ -		\$ -	100%	\$	411,038	\$	- \$	411,038	\$ -
Ninth Line	B.S.	Steeles to Ridgevale Dr.	2022 - 2031	\$ 580,571		\$ -		s -	s -	9	s -	100%	\$	580,571	\$	- \$	580,571	\$
Reesor Rd.	E.S.	Highway 7 to 1000m North of Highway 7	2022 - 2031	\$ 343,032	0%	\$ -	0%	\$ -	s -		s -	100%	\$	343,032	\$	- \$	343,032	\$ -
Reesor Rd.	B.S.	Highway 7 to Highway 407	2022 - 2031	\$ 613,663	0%	\$ -	0%	\$ -	s -		s -	100%	\$	613,663	\$	- \$	613,663	\$ -
Reesor Rd.	W.S.	Highway 407 to 14th Avenue	2022 - 2031	\$ 394,037	0%	s -	0%	\$ -	s -		s -	100%	\$	394,037	\$	- \$	394,037	\$ -
Rodick Road	B.S.	14th Avenue to Miller Avenue	2022 - 2031	\$ 1,010,772	0%	s -	0%	\$ -	s -		s -	100%	s	1,010,772	\$	- \$	1,010,772	\$ -
Sixteenth Avenue	N.S.	Warden Ave. to Yorkton Blvd.	2022 - 2031	\$ 630,209	0%	\$ -	0%	\$ -	\$ -		- 8	100%	\$	630,209	\$	- \$	630,209	s -
Kirkham Dr.	S.S.	Karachi Drive to S limit Lot 4, Con. 8	2022 - 2031	\$ 120,976	0%	\$ -	0%	\$ -	s -		s -	100%	\$	120,976	\$	- \$	120,976	s -
Warden Avenue	W.S.	Elgin Mills Rd. to 19th Avenue	2022 - 2031	\$ 746,033	0%	s -	0%	\$ -	s -		s -	100%	\$	746,033	\$	- \$	746,033	\$ -
Woodbine Avenue	B.S.	N. Of Woodbine By Pass to 19th Avenue	2022 - 2031	\$ 1,474,066	0%	s -	0%	\$ -	s -		s -	100%	s	1,474,066	\$	- \$	1,474,066	\$ -
Yorktech Drive	B.S.	Rodick Rd. to Warden Avenue	2022 - 2031	\$ 1,143,142	0%	\$ -	0%	\$ -	s -		s -	100%	s	1,143,142	\$	- \$	1,143,142	\$ -
Fourteenth Avenue	S.S.	West Dead End to Alden Road	2022 - 2031	\$ 852,204	0%	\$ -	0%	\$ -	\$ -		- 8	100%	\$	852,204	\$	- \$	852,204	\$ -
John St	S.S.	Yonge St to Henderson Ave.	2022 - 2031	\$ 345,866	0%	\$ -	0%	\$ -	s -		s -	100%	\$	345,866	\$	- \$	345,866	s -
Sixteenth Avenue	N.S.	Highway 404 to Cachet Wood Crt.	2022 - 2031	\$ 151,056	0%	s -	0%	\$ -	s -		s -	100%	\$	151,056	\$	- \$	151,056	s -
Sixteenth Avenue	N.S.	300m W of Mingay Ave to Mingay Ave	2022 - 2031	\$ 96,014	0%	s -	0%	\$ -	s -		s -	100%	s	96.014	\$	- s	96.014	\$
Sixteenth Avenue	N.S.	Bur Oak to Donald Cousens Pkwy	2022 - 2031	\$ 377,035	0%	s -	0%	\$ -	s -		s -	100%	\$	377,035	\$	- \$	377,035	\$ -
Victoria Square Blvd.	B.S.	Woodbine By Pass South to Woodbine By Pass North	2022 - 2031	\$ 1,871,174	0%	s -	0%	\$ -	s -		s -	100%	s	1,871,174	\$	- \$	1,871,174	\$ -
Duffield Drive	B.S.	Miller Ave. to Kennedy Road	2022 - 2031	\$ 2,202,098	0%	s -	0%	\$ -	s -		s -	100%	s	2,202,098	\$	- \$	2,202,098	\$ -
Old Kennedy Road	W.S.	Aldergrove Dr to Denison St	2022 - 2031	\$ 158,848	0%	s -	0%	\$ -	s -		s -	100%	\$	158,848	\$	- \$	158,848	s -
Allstate Pkwy	B.S.	Highway 7 to Valleywood Dr	2022 - 2031	\$ 145,297	50%	\$ 72,648	0%	\$ -	s -		s -	50%	\$	72,648	\$	- s	72,648	\$ -
Allstate Pkwy	B.S.	Valleywood to North Dead End	2022 - 2031	\$ 343,032	50%	\$ 171,516	0%	\$ -	s -		s -	50%	\$	171,516	\$	- \$	171,516	\$
Birchmount Rd	B.S.	Verclare Gate to Rouge River Bridge	2022 - 2031	\$ 360,034	0%	\$ -	0%	\$ -	s -		s -	100%	\$	360,034	\$	- \$	360,034	\$ -
Commerce Valley Dr E	N.S.	Leslie St to Highway 7	2022 - 2031	\$ 345,866	0%	\$ -	0%	\$ -	s -		S -	100%	\$	345,866	\$	- \$		\$ -
Commerce Valley Dr W	N.S.	Highway 7 to Leslie St	2022 - 2031	\$ 252,357	0%	\$ -	0%	\$ -	s -		S -	100%	\$	252,357	\$	- \$	252,357	\$
19th Ave	S.S.	Hwy 404 to 1100m E of Woodbine Ave	2022 - 2031	\$ 746,033	0%	\$ -	0%	\$ -	s -		S -	100%	\$	746,033	\$	- \$	746,033	\$
Donald Cousens Pkwy Ext.	B.S.	19th Ave to Warden Ave	2022 - 2031	\$ 812,218	0%	\$ -	0%	\$ -	s -		S -	100%	\$	812,218	\$	- \$	812,218	\$
Elgin Mills Road	B.S.	Victoria Square Blvd. to Warden Ave	2022 - 2031	\$ 2,930,131	0%		0%	\$ -	s -	9	s -	100%	s	2,930,131	\$	- \$	2,930,131	\$
Elgin Mills Road	S.S.	Warden Ave to 1000m E of Warden Ave	2022 - 2031	\$ 1,076,957		s -	0%	\$ -	s -	. 9	- S -	100%	s	1,076,957	\$	- \$	1,076,957	\$
Langstaff Road	B.S.	Bayview Avenue to South Limit of Langstall Development	2022 - 2031	\$ 343,032	0%		0%		\$ -		- \$-	100%	\$	343,032	\$	- \$	343,032	\$
Warden Ave	B.S.	Major Mackenzie Dr to Elgin Mills Rd	2022 - 2031	\$ 2,930,131		s -		s -	s -			100%	s	2,930,131	\$	- \$	2,930,131	s
Kennedy Rd	B.S.	Major Mackenzie Dr to Elgin Mills Rd	2022 - 2031	\$ 2,930,131		s -	0%	\$ -	s -			100%	s	2,930,131	\$	- \$	2,930,131	\$
Major Mackenzie Dr E	N.S.	Kennedy Rd to McCowan Rd	2022 - 2031	\$ 746,033	0%	\$ -	0%	\$ -	s -		• \$-	100%	\$	746,033	\$	- \$	746,033	\$
Church St	B.S.	9th Line to Bur Oak	2022 - 2031	\$ 394,037		\$-		\$-	s -	. 9	s -	100%	ŝ	394,037	\$	- s	394,037	\$
Sidewalk Gapping Program	0.0.		2022 - 2031 2022 - 2031	\$ 34,494,490		s -	18%	*	\$ -	. 9	•	65%	9 \$	22,421,419	\$	- \$	22,421,419	\$ 6,036,
		Total - Sidewalk		\$ 72,400,047		\$ 244,164		\$ 6,036,536	\$ -		\$ 6,036,536		\$	60,082,811	\$	- \$	60,082,811	\$ 6,036,



		Timing of	Total	Loca	I - by others		Others Sharing			Cost	(City-Share				Eligible	
Location	From / To	Project	Gross Cost	Share	Cost	Share	Gross	Others C	ost	Non-growth	Share		ost	Prior		ligible	Other
		110,000	(\$)	(%)	(\$)	(%)	(\$)	(\$)		(\$)	(%)	(\$)	Growth		osts	Dev. Related
															2022	- 2031	(\$)
6.0 STORM WATER MANAGEMENT																	
City's Watercourses - Erosion Control		2022 - 2031	\$ 20,700,750	0% \$		35%		\$	- \$		65%		3,388,800	\$ -		3,388,800	\$ -
East Precinct - Tributary 5 Relocation		2025 - 2026	\$ 5,468,000	0% \$		0%	•	\$	- \$	-	100%		5,468,000	\$ -		5,468,000	\$ -
Miller Avenue Storm	Woodbine to Rodick	2024 - 2024	\$ 1,581,741	0% 9		32%			,341 \$	-	68%		1,083,400	\$ -		1,083,400	\$ -
Rodick Road Storm	Miller to 14th Avenue	2023 - 2023	\$ 1,068,834	0% 9		32%			,745 \$	-	68%	\$	732,089	\$ -	\$	732,089	\$ -
Birchmount Pond Modification	Crossing Miller	2026 - 2027	\$ 2,650,350	0% \$	- 6	0%	\$-	\$	- \$		100%	\$	2,650,350	\$ -	\$	2,650,350	\$ -
Miller / Rodick SWM pond and Channel imp	ovements	2022 - 2022	\$ 19,005,161	0% \$		80%	\$ 15,204,129	\$ 15,204	,129 \$	-	20%	\$	3,801,032	\$ 3,801,032	\$	-	\$ -
	Total - SWM		\$ 50,474,837		\$-		\$ 23,351,166	\$ 16,039	,216 \$	5 7,311,950		\$ 27	7,123,671	\$ 3,801,032	\$ 2	3,322,638	\$ -
7.0 WATERMAIN																	
Church Street Watermain	Country Glen Road to Bur Oak	2025 - 2026	\$ 745,802	0% \$	-	0%	\$-	s	- s	-	100%	\$	745,802	\$ -	\$	745,802	s -
Woodbine Avenue (400mm)	Woodbine By-pass to 19th Avenue	2023 - 2026	\$ 1,665,853	0% 9		0%		s	- s		100%		1,665,853	\$ -	\$	1,665,853	\$ -
Woodbine Avenue	Burr Cres / Millbrook Gate	2023 2020	\$ 317,420	0% 9		90%	•	s	- s		10%	s	31,742	\$ -	s	31,742	\$.
Enterprise, Phase II	Rivas Rd. to Main Street S	2022 - 2022	\$ 429,192	0% 9		85%			- 3 .813 \$		15%	s	64,379	\$ 64,379	s	-	\$.
Kirkham Drive (400mm)	Karachi Drive to S limit Lot 4, Con.8	2022 - 2022	\$ 572,945	0% 9		0%		s so	- \$		100%	s	572,945	\$ 572,945	s		\$ \$
Rodick Road (400mm)	Miller Avenue to 14th Avenue	2022 - 2022 2023 - 2023	\$ 572,945 \$ 1,047,908	0% 3		0%	•	ŝ	- s		100%		1,047,908	\$ -	ŝ	- 1,047,908	ч - с
Miller Road (200mm to 400mm)	Woodbine to Rodick Road	2024 - 2024	\$ 1,185,229	0% 9		26%		¢	- \$		74%	s	877,069	¢ _	s	877,069	٠ ٩
Ninth Line (300mm)	Cornell South to Church Street	2024 - 2024 2023 - 2024	\$ 809,115	85% \$		0%		s			15%	s	121,367	φ -	\$	121,367	
	Dudley to east of Dudley	2023 - 2024 2026 - 2027	\$ 112,525	0% 9		0%	•	s		·	100%	s	121,507	 -	s s	121,507	
Highland Park Miller Road	Warden Avenue to Birchmount Road	2026 - 2027	\$ 112,525 \$ 578,648	0% 3		0%	Ŷ	s	- 3	·	100%	3	578,648	 -	s	578.648	
							•	s	•			-		5 -	-	578,648 820.000	5 ·
Rustle Woods (PD6M)	9th Line to Bur Oak	2024 - 2024	•	0% 9		0%	•	-	- \$		100%	\$	820,000	5 -	\$		5 -
Hwy 7 (PD6M)	Cornell Rouge to Reesor Road	2024 - 2028	•,	0% 9		0%		\$	- \$		100%	\$	603,000	\$ -	\$	603,000	5 -
Elgin Mills Road (600mm)	Victoria Square Boulevard to Street 'A'	2024 - 2025	\$ 3,051,470	0% \$		0%		s	- \$		100%		3,051,470	\$ -		3,051,470	s -
Elgin Mills Road (600mm)	Street 'A' to Warden Avenue	2024 - 2025	\$ 8,153,215	0% \$		0%		S	- \$		100%		8,153,215	\$ -		8,153,215	s -
Enterprise Drive (400mm)	Warden Avenue to Sciberras Drive	2022 - 2022	\$ 115,513	0% \$		0%	•	S	- \$		100%	\$	115,513	\$ 115,513	\$	-	s -
Honda Boulevard	Woodbine By-pass to TCPL	2022 - 2022	\$ 82,805	0% \$		0%	•	S	- \$		100%	\$	82,805	\$ 82,805	\$	-	s -
Honda Boulevard	TCPL to 19th Avenue	2024 - 2025	\$ 373,336	0% \$		0%	•	S	- \$		100%	\$	373,336	\$ -	\$	373,336	\$ -
Warden Ave (400mm)	Elgin Mills Rd to 19th Ave	2027 - 2028	\$ 3,039,063	0% \$		0%		\$	- \$		100%		3,039,063	\$ -		3,039,063	\$ -
Woodbine Ave (400mm)	19th Ave to Victoria Square Blvd	2023 - 2026	\$ 4,206,006	0% \$		0%	•	S	- \$		100%	\$	4,206,006	\$ -		4,206,006	\$ -
Woodbine By-pass	Lord Melbourne to Woodbine	2022 - 2022	\$ 383,400	0% \$	- 6	15%	\$ 57,510	\$	- \$	57,510	85%	\$	325,890	\$ 325,890	\$	-	\$ -
19th Ave (400mm)	Victoria Sq Blvd to Warden Ave	2026 - 2027	\$ 3,039,063	0% \$		0%	\$-	\$	- \$		100%		3,039,063	\$ -		3,039,063	\$ -
Elgin Mills Rd	Warden Ave to Kennedy Rd	2024 - 2025	\$ 3,039,063	0% \$	- 6	0%	\$-	\$	- \$		100%	\$	3,039,063	\$ -	\$	3,039,063	\$ -
Elgin Mills Rd	Kennedy Rd to McCowan Rd	2026 - 2027	\$ 3,039,063	0% \$		0%	\$ -	\$	- \$	-	100%	\$	3,039,063	\$ -	\$	3,039,063	\$ -
Kennedy Rd(PD 6)	Major Mackenzie Dr to Elgin Mills Rd	2025 - 2026	\$ 3,039,063	0% \$	- 6	0%	\$-	\$	- \$		100%	\$	3,039,063	\$ -		3,039,063	\$ -
Kennedy Rd (PD 7)	Major Mackenzie Dr to Elgin Mills Rd	2025 - 2026	\$ 3,039,063	0% \$		0%	\$ -	\$	- \$	-	100%	\$	3,039,063	\$ -	\$	3,039,063	\$ -
Langstaff Road (400mm)	Yonge Street to Bayview Avenue	2024 - 2025	\$ 398,082	0% \$	- 3	0%	\$ -	\$	- \$	-	100%	\$	398,082	\$ -	\$	398,082	\$
Warden Ave - PD 6 (750mm)	Major Mackenzie Dr to Street 'E'	2022 - 2022	\$ 8,700,000	0% \$	- 6	0%	\$ -	S	- \$	-	100%	\$	8,700,000	\$ 8,700,000	\$	-	\$ -
Warden Ave - PD 6 (600mm)	Street 'E' to Street 'D'	2022 - 2023	\$ 1,642,000	0% \$	- 6	0%	\$ -	S	- \$	-	100%	\$	1,642,000	\$ -	\$	1,642,000	\$ -
Warden Ave - PD 6 (600mm)	Street 'D' to Elgin Mills Road	2023 - 2024	\$ 2,176,000	0% \$	- 6	0%	\$ -	S	- \$	-	100%	\$	2,176,000	\$ -	\$	2,176,000	\$ -
Warden Ave (PD 7)	Major Mackenzie Dr to Elgin Mills Rd	2025 - 2026	\$ 3,039,063	0% \$	-	0%	\$-	\$	- \$	-	100%	\$	3,039,063	\$ -	\$	3,039,063	\$ -
Victoria Square Blvd	Elgin Mills Rd to North	2025 - 2026	\$ 208,742	0% \$	- 6	0%	\$-	\$	- \$	-	100%	\$	208,742	\$ -	\$	208,742	\$ -
Victoria Square Blvd	Elgin Mills Rd to South	2025 - 2026	\$ 373,336	0% \$	- 3	0%	\$ -	\$	- \$	-	100%	\$	373,336	\$-	\$	373,336	\$ -
Warden Avenue (400mm to 750mm)	Enterprise Drive to Clegg Road	2027 - 2028	\$ 7,125,972	0% 9	-	0%	\$-	s	- \$	-	100%	s	7,125,972	\$ -	\$	7,125,972	\$ -
Warden Avenue (300mm to 400mm)	Hwy 7 to Clegg Road	2025 - 2026	\$ 894,949	0% 9	-	0%	\$-	s	- \$	-	100%	\$	894,949	\$ -	\$	894,949	\$ -
Hwy 7 (300mm to 400mm)	Railway to Kennedy Road	2029 - 2030	\$ 2,424,093	0% \$	- 3	0%	\$-	s	- \$	- 3	100%	s	2,424,093	\$ -	\$	2,424,093	\$
PD6RA to PD5B (PRV Connection)	Markham Centre	2029 - 2030	\$ 969,407	0% \$	- 3	0%	\$-	s	- \$	-	100%	\$	969,407	\$ -	\$	969,407	\$ -
Birchmount Road (300mm)	Hwy 407 to 14th Avenue	2028 - 2029	\$ 1,701,576	0% \$	- 3	0%	\$ -	\$	- \$	-	100%	\$	1,701,576	\$ -	\$	1,701,576	\$
Markham Centre Zone Realignment and Dev		2026 - 2030	\$ 950,792	0% 9		0%		\$	- \$	-	100%	s	950,792	\$ -	s	950,792	s
Citywide Waternain		2022 - 2031	\$ 2,086,275	0% 9		0%	\$-	s	- s	-	100%	s	2,086,275	\$ -	\$	2,086,275	\$
FUA Water Booster Station		2027 - 2027	\$ 6,912,250	0% \$		0%	•	s	- s		100%		6,912,250	\$ -		6,912,250	\$
	T		A 02.000 000		C07				010 +				1 200 200	A 0.001 -01		1 504 055	•
	Total - Watermain		\$ 83,090,298	5	687,748		\$ 1,016,161	\$ 364	,813 \$	651,348		\$ 81	1,386,390	\$ 9,861,531	\$ 7	1,524,858	\$



CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY CIY-WIDE GROWTH-RELATED PROJECTS

		Timing of	Total	Lo	cal - by others		Others Sharin	-		wth Cos	st		City-S				DC Eligible	
Location	From / To	Timing of Project	Gross Cost	Share	Cost	Share	Gross	Oth	hers Cost	Non	i-growth	Share		Cost	Prior		DC Eligible	Other
		rioject	(\$)	(%)	(\$)	(%)	(\$)		(\$)		(\$)	(%)		(\$)	Growth		Costs 2022 - 2031	Dev. Relate (\$)
8.0 STUDIES*						1												
Trans., Servicing, Enviro., Cycling, Traffic	Calming, Noise, Subwatershed, Erosion Study Update etc.	2022 - 2031	\$ 18,003,000	0%	\$-	0%	\$-	\$	-	\$	-	100%	\$	18,003,000	\$	-	\$ 18,003,000	s
	Subtotal - Studies		\$ 18,003,000		\$-		\$-	\$	-	\$	-		\$	18,003,000	\$	-	\$ 18,003,000	\$
* Includes growth-related city-wide studie	es and program administration																	
9.0 SPECIAL PROJECTS																		
Bike Lanes on Collector / Arterial Roads		2022 - 2031	\$ 5,677,280	0%	\$ -	18%	\$ 993,524	s	-	\$	993,524	65%	\$	3,690,232	\$	-	\$ 3,690,232	\$ 993
MUP on Collector / Arterial Roads		2022 - 2031	\$ 22,549,608	0%	\$ -	18%	\$ 3,946,181	\$	-	\$	3,946,181	65%	\$	14,657,245	\$	-	\$ 14,657,245	\$ 3,946
Cycle Track on Collector / Arterial Roads		2022 - 2031			\$ -	18%	\$ 1,073,803	\$	-		1,073,803	65%	\$	3,988,411	\$		\$ 3,988,411	\$ 1,073
City-wide Street Safety and Traffic Calmin	ng, various locations	2022 - 2031	\$ 6,098,729		\$ -	18%	\$ 1,067,277	s	-		1,067,277	65%	\$	3,964,174	\$		\$ 3,964,174	
Travel Demand Management		2022 - 2031	\$ 3,396,183	0%	\$ -	0%	\$ -	\$	-	\$	-	100%	\$	3,396,183	\$	-	\$ 3,396,183	S
	Subtotal - Special Projects		\$ 43,857,816		\$-		\$ 7,080,786	s	-	\$ 7	7,080,786		\$	29,696,245	\$	-	\$ 29,696,245	\$ 7,080
9.1 Streetscape																		
9.1.1 Regional Roads																		
Miscellaneous Regional Roads		2022 - 2031	\$ 4,786,750	0%	\$ -	50%	\$ 2,393,375	\$	-	\$	2,393,375	50%	\$	2,393,375	\$	-	\$ 2,393,375	S
	Subtotal Regional Streetscape		\$ 4,786,750		\$-		\$ 2,393,375	s	-	\$ 2	2,393,375		s	2,393,375	\$	-	\$ 2,393,375	\$
9.1.2 City Roads																		
Miscellanous City Roads		2022 - 2031	\$ 3,424,250	0%	s -	50%	\$ 1,712,125	s	-	\$	1,712,125	50%	s	1,712,125	\$	-	\$ 1,712,125	s
Major Mackenzie Drive	Warden Avenue to East Limt	2022 - 2031	\$ 3,126,645	50%	\$ 1,563,323	0%	\$ -	s	-	s	-	50%	s	1,563,323	\$	-	\$ 1,563,323	s
FUA - Collector Rd 'D'	Warden Avenue to East Limit	2022 - 2031	\$ 6,235,290	50%	\$ 3,117,645	0%	\$ -	s	-	s	-	50%	\$	3,117,645	\$	-	\$ 3,117,645	s
FUA - Collector Rd 'D'	Street 'B' to Warden Avenue	2022 - 2031	\$ 2,349,484	50%	\$ 1,174,742	0%	\$ -	s	-	s	-	50%	s	1,174,742	\$	-	\$ 1,174,742	\$
FUA - Collector Rd 'I"	Major Mackenzie Dr. to Elgin Mills Rd	2022 - 2031	\$ 989,452	50%	\$ 494,726	0%	\$ -	s	-	s	-	50%	\$	494,726	\$	-	\$ 494,726	\$
FUA - Collector Rd 'J'	Major Mackenzie Dr. to Elgin Mills Rd	2022 - 2031	\$ 989,452	50%	\$ 494,726		\$ -	s	-	\$	-	50%	\$	494,726	\$	-	\$ 494,726	\$
Enterprise	Warden Avenue to Tributary 4	2022 - 2031	\$ 2,252,339	50%	\$ 1,126,169	0%	\$ -	\$	-	s	-	50%	\$	1,126,169	\$	-	\$ 1,126,169	s
Enterprise	Tributary 4 to Sciberras Drive	2022 - 2031	\$ 352,366	50%	\$ 176,183	0%	\$ -	\$	-	\$	-	50%	\$	176,183	\$	-	\$ 176,183	s
New East West Collector	Langstaff West	2022 - 2031	\$ 2,738,064	50%	\$ 1,369,032	0%	\$ -	\$	-	\$	-	50%	\$	1,369,032	\$	-	\$ 1,369,032	\$
Langstaff Road	Ruggles Rd	2022 - 2031	\$ 2,466,058	50%	\$ 1,233,029	0%	\$ -	\$	-	\$	-	50%	\$	1,233,029	\$	-	\$ 1,233,029	\$
Langstaff Road	New Collector East	2022 - 2031	\$ 502,094		\$ 251,047	0%	\$ -	\$	-	\$	-	50%	\$	251,047	\$	-	\$ 251,047	s
Yonge Street	Steeles	2022 - 2031	\$ 1,475,177		\$ 737,589		\$ -	\$	-	\$	-	50%	\$	737,589	\$		\$ 737,589	s
Steeles Ave	Yonge	2022 - 2031	\$ 472,149		\$ 236,074		\$ -	\$	-	\$	-	50%	\$	236,074	\$		\$ 236,074	\$
Yonge Street	Cricketwood Park north limit	2022 - 2031	\$ 1,086,597		\$ 543,298		\$ -	S	-	S	-	50%	\$	543,298	\$		\$ 543,298	\$
Bayview Avenue	John St	2022 - 2031	\$ 377,321		\$ 188,660		\$ -	s	-	\$	-	50%	\$	188,660	\$		\$ 188,660	S
Woodbine Ave	Steeles	2022 - 2031	\$ 1,242,029		\$ 621,015	0%	\$ -	s	-	\$	-	50%	\$	621,015	\$		\$ 621,015	S
Leslie Street	St Robert Highschool	2022 - 2031	\$ 1,057,453		\$ 528,727		\$ -	s	-	s	-	50%	\$	528,727	\$		\$ 528,727	5
Centurian	Hwy 404	2022 - 2031 2022 - 2031	\$ 332,402 \$ 989,452	50% 50%	\$ 166,201 \$ 494,726		\$ -	s	-	s	-	50% 50%	\$ \$	166,201 494,726	\$		\$ 166,201 \$ 494,726	s s
16th Ave	Hwy 404		¢ 565,162				\$ - \$ -	s	-	S S	-		\$ \$		ъ е			\$ ¢
Cachet Woods Ct	16th Ave	2022 - 2031 2022 - 2031	\$ 746,589 \$ 1,062,310		\$ 373,294 \$ 531,155	0% 0%	s - s -	s	-	s	-	50% 50%	\$	373,294 531,155	9		\$ 373,294 \$ 531,155	\$
Markland St Woodbine Ave	Woodbine 16th Ave	2022 - 2031 2022 - 2031	\$ 1,062,310 \$ 581,442		\$ 531,155 \$ 290,721		s -	s	-	s S	-	50%	s s	290,721	9		\$ 531,155 \$ 290,721	¢
Victoria Sg Blvd	Donald Buttress Blvd	2022 - 2031 2022 - 2031	\$ 581,442 \$ 387,303		\$ 290,721 \$ 193,651		s - s -	s	-	s		50% 50%	3 S	290,721 193,651	e e		\$ 290,721 \$ 193,651	ŝ
Kennedy Rd	Steeles	2022 - 2031 2022 - 2031	\$ 1,232,315		\$ 616,157	0%	s - s -	s	-	s	-	50%	s S	616,157	\$		\$ 616,157	ŝ
Denison St	Railway	2022 - 2031 2022 - 2031	\$ 162,710		\$ 81.355		ş - \$ -	s	-	s	-	50%	ŝ	81.355	\$		\$ 010,157 \$ 81.355	\$
Old Kennedy Rd	Denison	2022 - 2031	\$ 955,451	50%			\$-	s	-	s	-	50%	\$	477,725	\$		\$ 477,725	\$
Gorvette Dr	Denison	2022 - 2031	\$ 502,094		\$ 251,047		\$-	s	-	s	-	50%	\$	251,047	\$		\$ 251,047	\$
Midland	Steeles Ave	2022 - 2031	\$ 482,131		\$ 241,065	0%	\$ -	s	-	ŝ	-	50%	\$	241,065	\$		\$ 241,065	\$
Hwy 7	Ninth Line	2022 - 2031	\$ 2,738,064		\$ 1,369,032		\$ -	s	-	\$	-	50%	s	1,369,032	\$	- 1	\$ 1,369,032	s
Bur Oak	Hwy 7	2022 - 2031	\$ 552,004		\$ 276,002		\$-	s	-	s	-	50%	\$	276,002	\$	-	\$ 276,002	s
	Subtotal City Streetscape		\$ 41,860,487		\$ 19,218,118		\$ 1,712,125	\$	-	\$ 1	1,712,125		\$	20,930,243	\$	-	\$ 20,930,243	\$
Total Special Projects			\$ 90,505,053		\$ 19,218,118		\$ 11,186,286	Ś	-	\$ 11	1,186,286		ŝ	53,019,863	\$	-	\$ 53,019,863	\$ 7,080
Total opecial i Tojects			φ 90,505,053		ψ 19,210,118		↓ 11,100,280	Ŷ		÷ 11	1,100,200		2	53,019,003	2		φ 53,019,663	7,080

HEMSON

		1	Total	Loc	al - by others	1	Others Shari	ng and/	or Non-Grow	vth Cost		City-S	Share			DC Eligible		
Location	From / To	Timing of	Gross Cost	Share	Cost	Share		-	thers Cost	Non-growth	Share		Cost	Prior		DC Eligible		Other
		Project	(\$)	(%)	(\$)	(%)	(\$)		(\$)	(\$)	(%)		(\$)	Growth		Costs	De	ev. Related
																2022 - 2031		(\$)
10.0 STRUCTURES																		
407 Ramp alignment at Warden	20	026 - 2027	\$ 10,000,000	0%	\$ -	0%	\$ -	s		s -	100%	\$	10,000,000	\$ -	s	10,000,000	\$	-
407 Ramp alignment at Kennedy			\$ 1,000,000	0%	\$ -	0%	\$ -	s	-	s -	100%	s	1,000,000	÷ \$ -	ŝ	1,000,000	ŝ	-
Denison Street Extension Structure over / under CN			\$ 22,715,070	0%		0%	\$ -	s	-	s -	100%	s	22,715,070	s -	s	22,715,070	\$	-
Denison Street Extension Structure over Rouge River			\$ 2,278,117		\$ -	0%	\$ -	s	-	s -	100%	s	2,278,117	s -	\$	2,278,117	\$	-
Hwy 404 Mid-block Crossing North of 16th Avenue			\$ 21,300,494	67%	\$ 14,200,329		\$ -	s	-	s -	33%	s	7,100,165	\$ -	\$	7,100,165	\$	-
Hwy 404 Mid-Block Crossing North of Major Mackenzie	20	029 - 2030	\$ 41,194,000	67%	\$ 27,599,980	0%	\$ -	s	-	\$ -	17%	\$	6,797,010	\$ -	\$	6,797,010	\$	6,797,010
Hwy 404 Mid-Block Crossing North of Elgin Mills	20	030 - 2031	\$ 62,077,293	67%	\$ 41,384,862	0%	\$ -	s	-	s -	0%	\$	-	\$ -	\$	-	\$	20,692,43
Hwy 404 Ramp Improvements - Buttonville	20	028 - 2029	\$ 6,937,164	67%	\$ 4,624,776	0%	\$ -	s	-	s -	33%	\$	2,312,388	\$ -	\$	2,312,388	s	-
Major Mackenzie 404 Ramp Realignment	20	025 - 2026	\$ 18,368,150	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	18,368,150	\$ -	s	18,368,150	\$	-
John Street Partial Ramp Improvements	20	029 - 2030	\$ 7,060,053	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	7,060,053	\$ -	\$	7,060,053	\$	-
Langstaff North Crossing	20	025 - 2026	\$ 18,753,138	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	18,753,138	\$ -	s	18,753,138	\$	-
Langstaff South Crossing	20	026 - 2027	\$ 18,753,138	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	18,753,138	\$ -	s	18,753,138	\$	-
Langstaff-Two Crossings	20	024 - 2025	\$ 3,200,000	0%	\$ -	0%	\$ -	s	-	s -	100%	s	3,200,000	\$ -	\$	3,200,000	\$	-
Markland St. Extension - Structure over Rouge River	20	022 - 2023	\$ 13,244,435	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	13,244,435	\$ 4,042,8	36 \$	9,201,549	\$	-
MC - Markham Live Street over GO Station	20	026 - 2027	\$ 7,092,734	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	7,092,734	\$ -	\$	7,092,734	\$	-
MC - YMCA Boulevard over GO Station	20	028 - 2029	\$ 7,656,243	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	7,656,243	\$ -	\$	7,656,243	\$	-
Miller Avenue Extension Structure over CN	20	030 - 2031	\$ 26,814,243	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	26,814,243	\$ -	s	26,814,243	\$	-
Miller Avenue Extension Structure over Go Rail	20	028 - 2029	\$ 18,582,718	0%	\$ -	0%	\$ -	\$	-	\$-	100%	\$	18,582,718	\$ -	\$	18,582,718	\$	-
Pedestrian Bridges	20	022 - 2031	\$ 8,774,942	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	8,774,942	\$ -	\$	8,774,942	s	-
Sciberras Road Structure over Rouge River	20	029 - 2030	\$ 14,904,802	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	14,904,802	\$ -	s	14,904,802	\$	-
City Wide bridge/crossing projects (minor collectors)	20	022 - 2031	\$ 25,240,000	75%	\$ 18,930,000	0%	\$ -	s	-	s -	25%	\$	6,310,000	\$ -	\$	6,310,000	\$	-
Town Centre Blvd. Extension to Yorktech Drive	20	024 - 2025	\$ 5,272,165	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	5,272,165	\$ -	\$	5,272,165	\$	-
Yorktech Drive Structure over Rouge River	20	023 - 2024	\$ 8,774,942	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	8,774,942	\$ -	\$	8,774,942	\$	-
FUA - Employment Area (2 Major Collector Crossings)	20	028 - 2031	\$ 28,040,215	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	28,040,215	\$ -	\$	28,040,215	\$	-
Markham Centre - Frontage Road	20	027 - 2030	\$ 4,396,471	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	4,396,471	\$ -	\$	4,396,471	s	-
Markham Centre - YMCA Blvd	20	027 - 2030	\$ 4,396,471	0%	\$ -	0%	\$ -	s	-	s -	0%	\$	-	\$ -	\$	-	\$	4,396,47
Markham Centre - Markham Live	20	027 - 2031	\$ 4,396,471	0%	\$ -	0%	\$ -	s	-	s -	0%	\$	-	\$ -	\$	-	\$	4,396,47
FUA - Berczy Glen North Collector Road Structure	20	022 - 2022	\$ 12,020,000	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	12,020,000	\$ 12,020,00	\$ 00	-	\$	-
FUA - Berczy Glen South Collector Road Structure	20	024 - 2024	\$ 12,900,000	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	12,900,000	\$ -	\$	12,900,000	\$	-
FUA - Angus Glen (2 Major Collector Crossings)	20	024 - 2025	\$ 8,023,876	0%	\$ -	0%	\$ -	\$	-	\$-	100%	\$	8,023,876	\$ -	\$	8,023,876	\$	-
FUA - Angus Glen (Bruce Creek Crossings)	20	025 - 2026	\$ 47,943,207	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	47,943,207	\$ -	\$	47,943,207	\$	-
Cachet Woods Ramp to Mid-block Crossing	20	022 - 2023	\$ 8,773,800	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	8,773,800	\$ -	\$	8,773,800	\$	-
York Downs Structure	20	025 - 2026	\$ 11,710,430	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	11,710,430	\$ -	s	11,710,430	\$	-
404 North Collector Road E1 - Utility Structure Support	20	027 - 2028	\$ 12,398,220	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	12,398,220	\$ -	s	12,398,220	\$	-
Elgin Mills (Berczy Creek)	20	024 - 2025	\$ 4,832,530	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	4,832,530	\$ -	\$	4,832,530	\$	-
Elgin Mills (Bruce Creek West)	20	027 - 2028	\$ 2,769,160	0%	\$ -	0%	\$ -	\$	-	\$-	100%	\$	2,769,160	\$ -	\$	2,769,160	\$	-
Elgin Mills (Bruce Creek East)	20	027 - 2028	\$ 6,895,900	0%	\$ -	0%	\$ -	\$	-	s -	100%	s	6,895,900	\$ -	\$	6,895,900	\$	-
Elgin Mills (Robinson Creek)	20	029 - 2030	\$ 2,769,160	0%	\$ -	0%	\$ -	\$	-	\$ -	85%	\$	2,353,786	\$ -	\$	2,353,786	\$	415,37
Total - Struct	ures		\$ 542,259,752		\$ 106,739,947		\$-	\$	-	\$-		\$	398,822,048	\$ 16,062,88	6 \$	382,759,161	\$	36,697,75
11.0 SANITARY SEWER																		
Oversizing Watermains	20	022 - 2031	\$ 5,000,000	0%	\$ -	0%	\$-	\$	-	\$ -	50%	\$	2,500,000	\$-	\$	2,500,000	\$	2,500,00
Total - Sanita	ry Sewer		\$ 5,000,000		\$-		\$-	\$		\$-		\$	2,500,000	\$-	\$	2,500,000	\$	2,500,000
TOTAL CITY WIDE HADD (P-fore Condit Arms 1991)			\$ 1,820,106,199	0	\$ 379,411,698		\$ 49,584,47	7 6	16 404 000	¢ 22.100.44	8 \$ -	~	1,261,702,451	\$ 53,129,9	0 0	1 200 572 400	¢	129,407,57
TOTAL CITY WIDE HARD (Before Credit Agreements)				U	ə 3/9,411,698	\$-	ə 49,584,47	1 \$	10,404,029	ə 33,180,44	8\$-	\$	1,201,702,451	\$ 53,129,9	10 \$	1,208,572,492	\$	129,407,574



			Total	Loc	al - by others	1	Others Sharing	g and/or	r Non-Grow	th Cost		City-Sh	nare		DC Eligit	le	
Location	From / To	Timing of	Gross Cost	Share	Cost	Share	Gross		ers Cost	Non-growth	Share	Ĺ	Cost	Prior	DC Eligible		Other
		Project	(\$)	(%)	(\$)	(%)	(\$)		(\$)	(\$)	(%)		(\$)	Growth	Costs		Dev. Related
															2022 - 2031		(\$)
12.0 PROJECTS UNDERTAKEN BY CREDIT	AGREEMENT																
ROADS																	
Burr Oak Avenue	At Grade crossing @ CNR	2022 - 2022	\$ 200,000	0%	۹	0%	¢ _	s	-	s -	100%	\$	200,000	\$ 200,000	s	¢	
Burr Oak Avenue	CNR to Anderson Avenue	2022 - 2022	\$ 138,968		s -		s -	s		s -	100%	9 \$	138,968	\$ 138,968	s s	¢	-
Anderson Avenue widening	east of Highway 48	2022 - 2022	\$ 102,706	0%		0%		s	-	•	100%	9 \$	102,706	\$ 102,706	•	¢	-
Anderson Avenue widening	east of highway 46	2022 - 2022	\$ 102,708 \$ 441,674		\$ -		\$ -	\$		\$ -	100%	э \$	441,674	\$ 102,708		\$	-
12.1 PROJECTS undertaken by CREDIT AG	REEMENT, 43																
PROJECTS undertaken by CREDIT AG	REEMENT Phase I																
ROADS																	
Burr Oak Avenue	At-Grade Crossing at CNR	2022 - 2022	\$ 400,000	0%		50%		s	200,000		50%	\$	200,000			\$	-
Burr Oak Avenue	Anderson Ave. / C.N.R.	2022 - 2022	\$ 277,936	0%		50%		\$	138,968		50%	\$	138,968	\$ 138,968	\$	\$	-
North Collector Road, Design Only	Anderson Ave. / C.N.R.	2022 - 2022	\$ 55,678	0%			\$-	\$	-	\$ -	100%	\$	55,678	\$ 55,678		\$	-
North Collector Road, Design Only	C.N.R. at Grade Crossing	2022 - 2022	\$ 30,000	0%	\$ -	0%	\$ -	\$	-	\$ -	100%	\$	30,000	\$ 30,000	\$	\$	-
	Sub-Total - Roads		\$ 763,614		\$ -		\$ 338,968	\$	338,968	\$ -		\$	424,646	\$ 424,646	\$	\$	-
SIDEWALKS																	
16th Avenue	N.S. Ninth Line to 285m westerly	2022 - 2022	\$ 17,225	0%	\$ -	0%	\$ -	\$	-	\$ -	100%	\$	17,225	\$ 17,225	\$	<u> </u>	-
	Sub-Total - Sidewalks		\$ 17,225		\$ -		\$-	\$	-	\$ -		\$	17,225	\$ 17,225	\$	\$	-
WATER																	
Realignment of PD 5 and PD 6		2022 - 2022	\$ 460,000		\$ -	80%		\$	369,132	\$ -	20%	\$	90,868	\$ 90,868	\$	\$	-
Sixteenth Avenue East	Mintleaf Gate to 9th Line	2022 - 2022	\$ 1,000,000		\$ -	61%	\$ 612,900	\$	612,900	<u>\$</u> -	39%	\$	387,100	\$ 387,100	\$	<u> </u>	-
	Sub-Total - Water		\$ 1,460,000		\$ -		\$ 982,032	\$	982,032	\$ -		\$	477,968	\$ 477,968	\$	\$	-
	SUBTOTAL by Credit Agreement		\$ 2,240,839		\$-		\$ 1,321,001	\$	1,321,001	\$-		\$	919,838	\$ 919,838	\$	\$	-
PROJECTS undertaken by CREDIT AG ROADS	REEMENT Phase II																
North Collector Road, construction	Anderson Ave. / C.N.R.	2022 - 2022	\$ 1,055,884	0%	\$ -	0%	\$ -	s	-	\$ -	100%	\$	1,055,884	\$ 1,055,884	\$	\$	-
North Collector Road, construction	C.N.R. at Grade Crossing	2022 - 2022	\$ 573,549	0%	\$ -	0%	\$ -	s	-	s -	100%	\$	573,549	\$ 573,549	\$	\$	-
North Collector Road (Property)	23m Right of Way	2022 - 2022	\$ 506,094	0%	\$ -	0%	\$ -	s	-	\$ -	100%	\$	506,094	\$ 506,094	\$	\$	-
	Sub-Total - Roads		\$ 2,135,527		\$ -		\$-	\$	-	\$ -		\$	2,135,527	\$ 2,135,527	\$	\$	-
	SUBTOTAL by Credit Agreement - 43		\$ 4,376,366		\$-		\$ 1,321,001	\$	1,321,001	\$-		\$	3,055,365	\$ 3,055,365	\$	\$	-
12.2 PROJECTS undertaken by CREDIT AG	REEMENT, 45b																
WATER						I					1						
Realignment of PD 5 and PD 6		2022 - 2022		0%		79%		\$	364,101	\$ -	21%	\$	95,899		\$	\$	-
Kennedy Road (400mm)	16th Ave. to Major Mackenzie Dr.	2022 - 2022	\$ 711,258	0%	\$ -	57%	\$ 408,464	\$	408,464	\$ -	43%	\$	302,794	\$ 302,794	\$	\$	-
	Sub-Total - Water		\$ 1,171,258		\$ -		\$ 772,565	\$	772,565	\$ -		\$	398,692	\$ 398,692	\$	\$	-
	SUBTOTAL by Credit Agreement - 45B		\$ 1,171,258		\$-		\$ 772,565	\$	772,565	\$-		\$	398,692	\$ 398,692	\$	\$	-
			A														
TOTAL CREDIT AGREEMENT			\$ 5,989,298		\$ -		\$ 2,093,566	\$:	2,093,566	\$ -		\$	3,895,732	\$ 3,895,732	\$	\$	-
TOTAL CITY WIDE HARD (After Credit	Agroomente		\$ 1,826,095,497	1	\$ 379,411,698	1	\$ 51,678,043		0 407 505		1	A 1	1,265,598,182	\$ 57,025,690	A 1 000 570		129,407,574

2022 - 2031 Net Funding Envelope	\$3,304,814,431
Reserve Fund Balance	\$57,025,690

TABLE C-4

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE CITY-WIDE ENGINEERING RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

CITY-WIDE ENGINEERING	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
OPENING CASH BALANCE	\$35,308.71	\$40,652.1	\$56,348.0	\$25,424.5	(\$19,992.2)	(\$63,585.1)	(\$79,630.9)	(\$83,227.6)	(\$62,377.3)	(\$41,749.1)	
2022 - 2031 RESIDENTIAL FUNDING REQUIREMENTS											
- Prior Growth (Funding from DC Reserve Balance)	\$33,704.0	\$1,428.2	\$176.5	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$35,308.7
- City-Wide Engineering: Non Inflated	\$30,118.4	\$54,414.1	\$101,976.1	\$115,684.5	\$113,284.5	\$87,229.3	\$77,412.7	\$58,302.2	\$61,914.3	\$47,978.3	\$748,314.3
- City-Wide Engineering: Inflated	\$63,822.4	\$56,959.2	\$106,279.6	\$122,765.3	\$122,622.7	\$96,308.2	\$87,179.3	\$66,970.9	\$72,542.5	\$57,338.5	\$852,788.4
NEW RESIDENTIAL DEVELOPMENT											
- Population Growth in New Units	8,094	8,301	8,514	8,733	8,955	9,085	9,315	9,549	9,792	10,043	90,381
REVENUE											
- DC Receipts: Inflated	\$67,859.3	\$70,986.7	\$74,264.3	\$77,698.1	\$81,266.7	\$84,095.4	\$87,948.9	\$91,961.4	\$96,187.6	\$100,626.3	\$832,894.6
INTEREST											
- Interest on Opening Balance	\$1,235.8	\$1,422.8	\$1,972.2	\$889.9	(\$1,099.6)	(\$3,497.2)	(\$4,379.7)	(\$4,577.5)	(\$3,430.8)	(\$2,296.2)	(\$13,760.3)
- Interest on In-year Transactions	\$70.6	\$245.5	(\$880.4)	(\$1,239.3)	(\$1,137.3)	(\$335.9)	\$13.5	\$437.3	\$413.8	\$757.5	(\$1,654.7)
TOTAL REVENUE	\$69,165.8	\$72,655.0	\$75,356.1	\$77,348.6	\$79,029.8	\$80,262.3	\$83,582.6	\$87,821.2	\$93,170.6	\$99,087.6	\$817,479.7
CLOSING CASH BALANCE	\$40,652.1	\$56,348.0	\$25,424.5	(\$19,992.2)	(\$63,585.1)	(\$79,630.9)	(\$83,227.6)	(\$62,377.3)	(\$41,749.1)	\$0.0	

2022 Adjusted Charge Per Capita \$8,383.
--

Residential Sector	61.9%
Non-Residential Sector	38.1%
Rates for 2013	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



TABLE C-4

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE CITY-WIDE ENGINEERING RETAIL NON-RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

CITY-WIDE ENGINEERING	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
OPENING CASH BALANCE	\$6,286.59	\$5,873.9	\$7,482.5	\$990.6	(\$7,835.8)	(\$16,116.2)	(\$18,990.4)	(\$19,238.7)	(\$14,642.6)	(\$9,525.5)	
2022 - 2031 NON-RESIDENTIAL FUNDING REQUIREMEN	٢S										
- Prior Growth (Funding from DC Reserve Balance)	\$6,000.9	\$254.3	\$31.4	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$6,286.6
- City-Wide Engineering: Non Inflated	\$5,362.5	\$9,688.2	\$18,156.5	\$20,597.2	\$20,169.9	\$15,530.9	\$13,783.0	\$10,380.5	\$11,023.6	\$8,542.4	\$133,234.6
- City-Wide Engineering: Inflated	\$11,363.3	\$10,141.4	\$18,922.7	\$21,857.9	\$21,832.5	\$17,147.3	\$15,521.9	\$11,923.9	\$12,915.9	\$10,208.9	\$151,835.9
NEW RETAIL NON-RESIDENTIAL DEVELOPMENT											
- Growth in Square Metres	49,648	52,174	54,834	57,608	60,572	63,650	66,880	70,300	73,872	77,638	627,176
REVENUE											
- DC Receipts: Inflated	\$10,747.5	\$11,520.2	\$12,349.7	\$13,234.0	\$14,193.2	\$15,212.7	\$16,304.4	\$17,480.9	\$18,736.5	\$20,085.5	\$149,864.7
INTEREST											
- Interest on Opening Balance	\$220.0	\$205.6	\$261.9	\$34.7	(\$431.0)	(\$886.4)	(\$1,044.5)	(\$1,058.1)	(\$805.3)	(\$523.9)	(\$4,027.0)
- Interest on In-year Transactions	(\$16.9)	\$24.1	(\$180.8)	(\$237.2)	(\$210.1)	(\$53.2)	\$13.7	\$97.2	\$101.9	\$172.8	(\$288.4)
TOTAL REVENUE	\$10,950.6	\$11,750.0	\$12,430.9	\$13,031.5	\$13,552.1	\$14,273.1	\$15,273.6	\$16,520.0	\$18,033.0	\$19,734.5	\$145,549.3
CLOSING CASH BALANCE	\$5,873.9	\$7,482.5	\$990.6	(\$7,835.8)	(\$16,116.2)	(\$18,990.4)	(\$19,238.7)	(\$14,642.6)	(\$9,525.5)	\$0.0	

2022 Adjusted Charge Per Sq.M.

\$216.47

Allocation of Capital ProgramRetail Sector11.0%Industrial/Office/Institutional26.8%Mixed-Use0.3%RatesInflation Rate2.0%Interest Rate on Positive Balances3.5%Interest Rate on Negative Balances5.5%



TABLE C-4

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE CITY-WIDE ENGINEERING INDUSTRIAL/OFFICE/INSTITUTIONAL NON-RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

CITY-WIDE ENGINEERING	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
OPENING CASH BALANCE	\$15,269.20	\$16,728.0	\$22,734.7	\$8,674.4	(\$11,550.4)	(\$30,896.4)	(\$37,750.7)	(\$38,976.8)	(\$29,329.1)	(\$19,421.4)	
2022 - 2031 NON-RESIDENTIAL FUNDING REQUIREMENTS											
- Prior Growth (Funding from DC Reserve Balance)	\$14,575.2	\$617.6	\$76.3	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$15,269.2
- City-Wide Engineering: Non Inflated	\$13,024.6	\$23,531.3	\$44,099.4	\$50,027.6	\$48,989.7	\$37,722.2	\$33,477.0	\$25,212.7	\$26,774.7	\$20,748.1	\$323,607.3
- City-Wide Engineering: Inflated	\$27,599.9	\$24,631.9	\$45,960.4	\$53,089.7	\$53,028.0	\$41,648.3	\$37,700.5	\$28,961.5	\$31,370.9	\$24,795.9	\$368,787.0
NEW INDUSTRIAL/OFFICE/INSTITUTIONAL NON-RE	SIDENTIAL DEV	ELOPMENT									
- Growth in Square Metres	164,145	169,120	174,338	179,648	185,208	191,032	197,025	203,257	209,805	216,481	1,890,059
REVENUE											
- DC Receipts: Inflated	\$28,508.4	\$29,959.9	\$31,502.0	\$33,110.7	\$34,818.1	\$36,631.3	\$38,536.1	\$40,550.1	\$42,693.6	\$44,933.1	\$361,243.1
INTEREST											
- Interest on Opening Balance	\$534.4	\$585.5	\$795.7	\$303.6	(\$635.3)	(\$1,699.3)	(\$2,076.3)	(\$2.143.7)	(\$1.613.1)	(\$1,068.2)	(\$7,016.6)
- Interest on In-year Transactions	\$15.9	\$93.2	(\$397.6)	(\$549.4)	(\$500.8)	(\$138.0)	\$14.6	\$202.8	\$198.1	\$352.4	(\$708.7)
TOTAL REVENUE	\$29,058.7	\$30,638.6	\$31,900.1	\$32,864.9	\$33,682.1	\$34,794.0	\$36,474.4	\$38,609.2	\$41,278.6	\$44,217.3	\$353,517.8
CLOSING CASH BALANCE	\$16,728.0	\$22,734.7	\$8,674.4	(\$11,550.4)	(\$30,896.4)	(\$37,750.7)	(\$38,976.8)	(\$29,329.1)	(\$19,421.4)	\$0.0	

2022 Adjusted Charge Per Sq.M.	
--------------------------------	--

\$173.68

Allocation of Capital Program	
Retail Sector	11.0%
Industrial/Office/Institutional	26.8%
Mixed-Use	0.3%
Rates	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



TABLE C-4

CITY OF MARKHAM CASHFLOW AND DETERMINATION OF DEVELOPMENT CHARGE CITY-WIDE ENGINEERING MIXED-USE NON-RESIDENTIAL DEVELOPMENT CHARGE (in \$000)

(\$244.2)				2028	2027	2026	2025	2024	2023	2022	CITY-WIDE ENGINEERING
	\$375.4) (\$244.	(\$375.4)	(\$493.3)	(\$486.9)	(\$413.2)	(\$200.9)	\$25.4	\$191.9	\$150.6	\$161.19	OPENING CASH BALANCE
										IENTS	2022 - 2031 NON-RESIDENTIAL FUNDING REQUIREM
\$0.0 \$161.	\$0.0 \$0.	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.8	\$6.5	\$153.9	- Prior Growth (Funding from DC Reserve Balance)
\$219.0 \$3,416.	\$282.7 \$219.	\$282.7	\$266.2	\$353.4	\$398.2	\$517.2	\$528.1	\$465.6	\$248.4	\$137.5	- City-Wide Engineering: Non Inflated
\$261.8 \$3,893. 2	\$331.2 \$261.	\$331.2	\$305.7	\$398.0	\$439.7	\$559.8	\$560.5	\$485.2	\$260.0	\$291.4	- City-Wide Engineering: Inflated
										Т	NEW MIXED-USE NON-RESIDENTIAL DEVELOPMENT
4,086 33,00	3,888 4,08	3,888	3,700	3,520	3,350	3,188	3,032	2,886	2,746	2,613	- Growth in Square Metres
											REVENUE
\$515.0 \$3,842.	\$480.4 \$515.	\$480.4	\$448.2	\$418.1	\$390.1	\$363.9	\$339.3	\$316.7	\$295.4	\$275.6	- DC Receipts: Inflated
											INTEREST
(\$13.4) (\$103.	(\$20.6) (\$13.	(\$20.6)	(\$27.1)	(\$26.8)	(\$22.7)	(\$11.1)	\$0.9	\$6.7	\$5.3	\$5.6	- Interest on Opening Balance
\$4.4 (\$7. 4	\$2.6 \$4.	\$2.6	\$2.5	\$0.4	(\$1.4)	(\$5.4)	(\$6.1)	(\$4.6)	\$0.6	(\$0.4)	- Interest on In-year Transactions
\$506.0 \$3,732.0	\$462.4 \$506.	\$462.4	\$423.6	\$391.6	\$366.0	\$347.5	\$334.1	\$318.7	\$301.3	\$280.8	TOTAL REVENUE
\$0.0	\$244.2) \$0.	(\$244.2)	(\$375.4)	(\$493.3)	(\$486.9)	(\$413.2)	(\$200.9)	\$25.4	\$191.9	\$150.6	CLOSING CASH BALANCE
	3,888 \$480.4 (\$20.6) \$2.6 \$462.4	3,888 \$480.4 (\$20.6) \$2.6 \$462.4	3,700 \$448.2 (\$27.1) \$2.5 \$423.6	3,520 \$418.1 (\$26.8) \$0.4 \$391.6	3,350 \$390.1 (\$22.7) (\$1.4) \$366.0	3,188 \$363.9 (\$11.1) (\$5.4) \$347.5	3,032 \$339.3 \$0.9 (\$6.1) \$334.1	2,886 \$316.7 \$6.7 (\$4.6) \$318.7	2,746 \$295.4 \$5.3 \$0.6 \$301.3	T 2,613 \$275.6 \$5.6 (\$0.4) \$280.8	NEW MIXED-USE NON-RESIDENTIAL DEVELOPMENT - Growth in Square Metres REVENUE - DC Receipts: Inflated INTEREST - Interest on Opening Balance - Interest on In-year Transactions TOTAL REVENUE

2022 Adjusted Charge Per Sq.M.	
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\$105.46

11.0%
26.8%
0.3%
2.0%
3.5%
5.5%



Appendix D

Area-Specific Technical Appendix



Appendix D: Area-Specific Technical Appendix

This appendix provides an overview of the area-specific developmentrelated capital forecast and development charges calculation. The areaspecific charges recover primarily for the following services:

- Roads;
- Sanitary Sewers;
- Storm water management;
- Special Projects (mainly streetscaping);
- Intersection Improvements;
- Structures;
- Property Acquisitions;
- Projects Undertaken by Credit Agreement;
- Sidewalks;
- Water; and
- Studies.

In some situations, the area-specific charges will continue to recover for some outstanding costs for projects undertaken through credit agreements with various landowners. Additionally, in a few specific areas, the charges will recover for other project costs not transferred to the City-wide hard calculations.

As permitted under the *Development Charges Act, 1997 (DCA)*, the areaspecific services are planned for the period from 2022 to 2031 so that the development-related capital costs are apportioned over the development anticipated within the City's designated urban boundary and Future Urban Area (FUA).

Map 1 shows a schematic representation of the area-specific service areas that have been identified in the City. The areas recommended in this study are as follows:



- Area 1B Yonge Steeles Corridor
- Area 5 Armadale
- Area 7 Armadale NE
- Area 9 PD 1-7
- Area 17 Rodick/Miller Road Planning District
- Area 23 Mount Joy
- Area 42A.1 Markham Centre South Unionville Helen Ave
- Area 42B Markham Centre
- Area 42B.2 Markham Centre Clegg
- Area 42B.4 Markham Centre Hotel
- Area 42B.6 Markham Centre South Hwy 7
- Area 42B.8 Markham Centre Sciberras
- Area 42B.9 Markham Centre East Precinct
- Area 46 Cathedral
- Area 47B York Downs
- Area 49 404 North
- Area 50A-1 Future Urban Area Employment Block
- Area 50A-2 Future Urban Area Robinson Glen
- Area 50A-3 Future Urban Area Berczy Glen Block
- Area 50A-4 Future Urban Area Angus Glen Block
- Area 50A- 5 Future Urban Area Robinson Glen South Block

These areas represent a reasonable basis on which to calculate the areaspecific development charges so that the costs are fairly attributed to the areas that will benefit from them. In general, the areas represent development communities that can be serviced relatively independently of one another. The development-related net capital costs to provide services are allocated to the development area. In a number of cases, however, projects and related project costs are shared between development areas, and the costs are apportioned between these areas.

The cost, quantum and timing of the projects identified in the forecast have been provided by the Engineering Department based on estimates prepared by City staff and various consulting engineers. The estimates include provisions for engineering and contingencies. It is noted that some of the costs in some of the ASDC are continuing to be reviewed with the landowners, and their consultants, and these ASDC rates may change prior to Council's consideration of the new ASDC by-laws. Any changes will be noted at the public meeting or prior to Council's consideration of the by-laws.

A. Area-Specific Capital Costs

Table D-1 provides a summary of the development-related capital program for area-specific services. Many of the area-specific projects provide benefits to multiple areas, including other area-specific areas and the broader City-wide benefitting area. In addition, an internal component is identified for some of the projects, reflecting the cost that a development would have to pay to provide for required local servicing for a particular subdivision. The City will continue to require these contributions through the normal subdivision process, but excluding them from the development charges calculation ensures that only the oversized portion of costs is shared by other developments. A further share of some projects is identified as a non-growth or benefit to existing share to be funded from other municipal revenue sources.

As shown in Table D-1, the servicing costs vary significantly by development area. This underscores the merit of utilizing an area-specific approach for these services.

Of the all the projects included in the area-specific calculations, \$121.75 million, is identified as area-specific development-related and forms the basis for the area-specific development charges calculations.

In total, there is an available reserve fund balance of \$4.76 million for all area-specific charges which is applied against the ASDC capital programs. Agreement credits in the sum of \$9.86 million have been removed from the



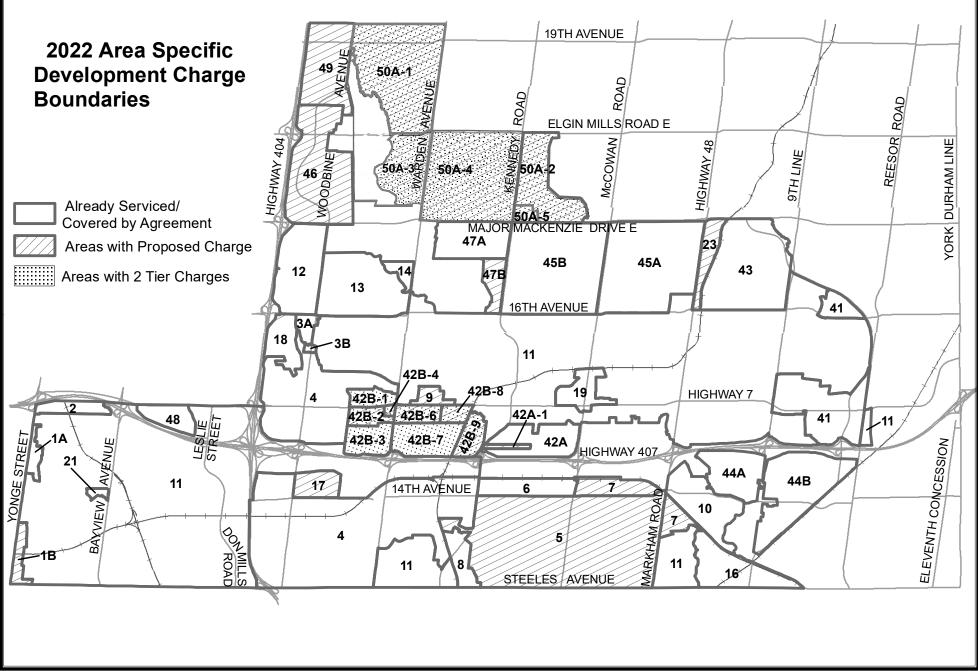
total eligible costs included for recovery in the ASDC calculation. In addition, a further \$0.69 million in projects already funded from reserves have also been removed.

The City's intention is to continue to calculate and collect the area-specific development charges on the basis of net developable land area. As shown in Table D-1, the calculated charges range from a low of about \$7,997 per net hectare to a high of about \$1.49 million per net hectare. This reflects the differing servicing costs associated with the various areas as well as the secured financing already approved by the City for some of the areas.

Table D-2 shows the details of the ASDC calculations, allocations and costs for each service area.



MAP 1



APPENDIX D

TABLE D-1

CITY OF MARKHAM SUMMARY OF AREA-SPECIFIC DEVELOPMENT CHARGES FOR AREA-SPECIFIC SERVICES 2022-2031

						A	djustments						
Area Name	Area	Gro	owth-Related Costs	Re	eserve Fund Credits in Projects Funded Balance Agreement From Reserve Land Area		e Agreement From Reserve		Projects Funded Recovera		Land Area (Ha)	AS	DC Charge \$/ha
Yonge Steeles Corridor	1B	\$	12,995,613	\$	582,656	\$	-	\$	-	\$12,412,957.20	8.46	\$	1,467,253
Armadale	5	\$	1,213,831	\$	675,358	\$	293,988	\$	-	\$244,484.80	27.60	\$	8,857
Armadale NE	7	\$	521,486	\$	121,641	\$	-	\$	-	\$399,844.81	25.81	\$	15,489
PD 1-7	9	\$	7,565,306	\$	1,270,491	\$	3,419,592	\$	-	\$2,875,222.11	3.90	\$	736,670
Rodick/Miller Road Planning District	17	\$	16,541,096	\$	(1,127,770)	\$	-	\$	-	\$17,668,865.79	26.66	\$	662,823
Mount Joy	23	\$	2,705,336	\$	58,018	\$	-	\$	-	\$2,647,318.21	15.27	\$	173,322
Markham Centre - South Unionville - Helen Ave	42A.1	\$	3,137,837	\$	1,347	\$	2,063,068	\$	691,311	\$382,111.42	2.16	\$	176,576
Markham Centre	42B	\$	881,933	\$	74,313	\$	-	\$	-	\$807,620.00	100.99	\$	7,997
Markham Centre - Clegg	42B.2	\$	504,473	\$	(199,392)	\$	-	\$	-	\$703,865.17	4.16	\$	169,076
Markham Centre - Hotel	42B.4	\$	424,385	\$	(23,525)	\$	-	\$	-	\$447,909.93	0.50	\$	895,820
Markham Centre - South Hwy 7	42B.6	\$	10,582,519	\$	814,222	\$	3,795,207	\$	-	\$5,973,090.18	4.83	\$	1,236,921
Markham Centre - Sciberras	42B.8	\$	6,400,392	\$	(750,458)	\$	-	\$	-	\$7,150,850.27	4.80	\$	1,490,071
Markham Centre - East Precinct	42B.9	\$	3,125,352	\$	1,663,489	\$	-	\$	-	\$1,461,862.97	6.18	\$	236,433
Cathedral	46	\$	1,041,155	\$	198,589	\$	290,350	\$	-	\$552,215.78	57.99	\$	9,522
York Downs	47B	\$	502,681	\$	379,541	\$	-	\$	-	\$123,140.04	15.00	\$	8,210
404 North	49	\$	2,034,211	\$	1,022,798	\$	-	\$	-	\$1,011,412.51	55.67	\$	18,167
Future Urban Area	50A	\$	7,587,159	\$	-	\$	-	\$	-	\$7,587,159.00	642.05	\$	11,817
Future Urban Area - Employment Block	50A-1	\$	25,533,491	\$	-	\$	-	\$	-	\$25,533,491.00	220.43	\$	115,835
Future Urban Area - Robinson Glen	50A-2	\$	2,683,382	\$	-	\$	-	\$	-	\$2,683,381.85	154.65	\$	17,351
Future Urban Area - Berczy Glen Block	50A-3	\$	19,150,465	\$	-	\$	-	\$	-	\$19,150,464.51	93.84	\$	204,076
Future Urban Area - Angus Glen Block	50A-4	\$	11,392,962	\$	-	\$	-	\$	-	\$11,392,962.16	162.04	\$	70,310
Future Urban Area - Robinson Glen - South Block	50A-5	\$	534,985	\$	-	\$	-	\$	-	\$534,985.00	11.09	\$	48,240
Total		\$1	37,060,049		\$4,761,318		\$9,862,205		\$691,311	\$121,745,215			

APPENDIX D TABLE D-2

CITY OF MARKHAM 2022 DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH RELATED PROJECTS AREA 1B : YONGE STEELES CORRIDOR

Project Des	cription	Total	Local Cost	/ by others	ASDC Grow	rth - Related	Others Sha	n-Growth Cost	
Location	From / To	Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	Cost (\$)	Gross (\$)	Others Cost (\$)	Non-growth (\$)
AREA 1B : YONGE STEELES CORRIDO	DR								
1.0 <u>ROADS</u> 1.1 Dudley Avenue Ring Road Subtotal Roads		\$ 10,114,214 \$ 10,114,214	0%	<u>\$-</u> \$-	100%	\$ 10,114,214 \$ 10,114,214	<u>\$ -</u> \$ -	<u>\$-</u> \$-	<u>\$</u> \$
2.0 <u>Sanitary</u> 2.1 Yonge / Steeles Corridor Subtotal Sanitary	Dudley Ave	\$ 2,881,399 \$ 2,881,399	0%	<u>\$-</u> \$-	100%	\$ 2,881,399 \$ 2,881,399	<u>\$-</u> \$-	<u>\$-</u> \$-	<u>\$-</u> \$-
SUB-TOTAL AREA 1B		\$12,995,613		\$-		\$12,995,613	\$-	\$-	\$-
PROJECTS undertaken by CREDI No Projects	T AGREEMENT								
TOTAL AREA 1B		\$12,995,613		\$-		\$12,995,613		\$-	\$ -

Less: Balance in Reserve as at June 30, 2021 Less: Credit as per Agreement Less: Projects Funded from Reserve \$ (582,656)

Total Development-Related Recoverable Costs	\$12,412,957
Net Developable Area (Ha.) to Pay New Dev Charge	8.460
Development Charge per Net Hectare	\$ 1,467,253



APPENDIX D TABLE D-2

CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 5 : ARMADALE

Project De	scription	Total	Local Cost	/ by others	ASDC Grow	vth - Related	Others Sh	aring and/or No	n-Growth Cost
Location	From / To	Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	Cost (\$)	Gross (\$)	Others Cost (\$)	Non-growth (\$)
AREA 5 : ARMADALE 1.0 <u>STORM WATER MANAGEMENT</u> 1.1 Armadale SWM S Pond Subtotal Storm Water Mana	SWM E of Hwy 48 pt lot 1 Con. 8 agement	\$ <u>374,917</u> \$374,917	0%	\$- \$-	62%	\$ 233,831 \$ 233,831	\$ 141,086 \$ 141,086	\$ 141,086 \$ 141,086	<u>\$</u>
SUBTOTAL AREA 5 PROJECTS undertaken by CREDI 2.0 <u>STORM WATER MANAGEMENT</u> 2.1 Armadale SWM N Pond Subtotal Storm Water Mana	SWM E of Hwy 48 Pt Lot 3 Con 8	\$ 374,917 <u>\$ 5,676,382</u> \$ 5,676,382	0%	\$ - <u>\$</u> - \$ -	17%	\$ 233,831 <u>\$ 980,000</u> \$ 980,000	\$ 141,086 \$ 4,696,382 \$ 4,696,382	\$ 141,086 \$ 4,696,382 \$ 4,696,382	\$ - <u>\$</u> -
SUBTOTAL CREDITS FROM AG	BREEMENT	\$ 5,676,382 \$ 6,051,299		\$-		\$ 980,000 \$ 1,213,831	\$ 4,696,382 \$ 4,837,468		\$- \$-
Less: Balance in Reserve as at Ju Less: Credit as per Agreement Less: Projects Funded from Rese	rve	al Development evelopable Area Developn	(Ha.) to Pay N			\$ (675,358) \$ (293,988) \$ - \$ 244,485 27.604 \$ 8,857			



CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 7 : ARMADALE NE

Project De	escription	Total	Local Cost	/ by others	ASDC Grow	/th - Related	Others Sharing and/or Non-Growth				
Location	From / To	Gross Cost	Share	Cost	Share	Cost	Gross	Others Cost	Non-growth		
Location		(\$)	(%)	(\$)	(%)	(\$)	(\$)	(\$)	(\$)		
AREA 7 : ARMADALE NE											
1.0 STORM WATER MANAGEMEN											
	SWM E of Hwy 48 Pt Lot 3 Con 8	\$ 5,676,382	8%	\$ 467,835	9%	\$ 521,486		\$ 4,687,061	\$ -		
Subtotal Storm Water	Management	\$ 5,676,382		\$ -		\$ 521,486	\$ 4,687,061	\$ 4,687,061	\$-		
SUBTOTAL AREA 7		\$ 5,676,382		\$-		\$ 521,486	\$ 4,687,061	\$ 4,687,061	\$ -		
PROJECTS undertaken by C	REDIT AGREEMENT										
No Projects											
TOTAL AREA 7		\$ 5,676,382		\$-		\$ 521,486	\$ 4,687,061	\$ 4,687,061	\$-		

Less: Balance in Reserve as at June 30, 2021	\$ (121,641)
Less: Credit as per Agreement	\$ -
Less: Projects Funded from Reserve	\$ -
Total Development-Related Recoverable Costs	\$ 399,845
Net Developable Area (Ha.) to Pay New Dev Charge	25.814
Development Charge per Net Hectare	\$ 15,489



CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 9 : PD 1-7 (Reference to Markham Centre Sub-Area 5)

	Proje	ect Description		Total	Local Co	st / by	others	ASDC G	irowt	h - Related		Others Sha	aring	and/or Non-G	rowth	Cost
	Location	From / To	(Gross Cost	Share		Cost	Share		Cost		Gross	(Others Cost	No	on-growth
	Location	11011/10		(\$)	(%)	(\$)	(%)		(\$)		(\$)		(\$)		(\$)
AREA	9 : PD 1-7 (Reference to Mar	kham Centre Sub-Area 5)														
1.0	INTERSECTION 1.1 Village Parkway Subtotal Intersection	Roundabout	\$	400,250 400,250	0%	<u>\$</u>		100%	\$	400,250 400,250	\$	-	\$	-	\$	-
2.0	<u>ROADS</u> 2.1 Village Parkway Subtotal Roads	Southbound dedicated left turn lane @ hwy 7	\$	44,553 44,553	0%	<u>\$</u>	-	100%	භ භ	44,553 44,553	\$	-	\$	-	\$	-
3.0	STORM WATER MANAGEME 3.1 Sheridan Pond (Constru 3.2 Highway 7 Storm Sewer 3.3 Sheridan Storm Sewer Subtotal Storm Water M	ction) Villiage Pkwy to East of Street G Highway 7 to Sheridan Pond	\$	1,582,964 1,607,823 1,810,704 5,001,491	0% 0% 0%	\$ \$ \$	-	67% 90% 93%	~~~~	1,068,324 1,440,520 1,681,787 4,190,631	\$\$ \$\$ \$\$	514,640 167,303 128,917 810,860	\$	514,640 167,303 128,917 810,860	\$	
4.0	SANITARY SEWERS4.1Highway 7 Sanitary Se4.2Highway 7 Sanitary SeSubtotal Sanitary Sewee		\$\$ \$\$ \$\$	16,630,334 762,093 17,392,427	0% 0%	୬ ୬ <u></u> ୬	-	16% 16%	59 69 69	2,604,128 119,335 2,723,463	\$	14,026,206 642,758 14,668,964	\$\$ \$\$ \$\$	14,026,206 642,758 14,668,964	\$	-
5.0		<u>STREETSCAPE</u> Dedicated Bike Lanes ts	\$	206,409 206,409	0%	<u>\$</u> \$	-	100%	69 69	206,409 206,409	\$	-	\$	-	\$	-
	SUBTOTAL AREA 9		\$	23,045,130					\$	7,565,306	\$	15,479,824	\$	15,479,824	\$	-
6.0	Projects Undertaken by Cred 6.1 Storm Water Managemen 6.2 Sanitary Sewers		\$	- -		\$	-		\$	(1,342,913) (2,076,679)	\$	- -	\$	- -	\$	-
	SUBTOTAL CREDITS FROM	AGREEMENT	\$	-		\$	-		\$	(3,419,592)	\$	-	\$	-	\$	-
	TOTAL AREA 9		\$	23,045,130	\$-	\$	-		\$	4,145,713	\$	15,479,824	\$	15,479,824	\$	-
	Less:	Balance in Reserve as at June 30, 2021 Credit as per Agreement Projects Funded from Reserve							\$	(1,270,491) - -						

Balance in Reserve as at June 30, 2021 Credit as per Agreement Projects Funded from Reserve		\$ \$	(1,270,491) - -
	Total Development-Related Recoverable Costs Net Developable Area (Ha.) to Pay New Dev Charge Development Charge per Net Hectare	\$	2,875,222 3.9030 736,670



CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 17 : RODICK ROAD / MILLER ROAD PLANNING DISTRICT

Project Desc	cription	Total	Local Cost	: / by others	ASDC Gro	owth - Related	Others Sh	aring and/or No	n-Growth Cost
Location	From / To	Gross Cost	Share	Cost	Share	Cost	Gross	Others Cost	Non-growth
Editation	110117 10	(\$)	(%)	(\$)	(%)	(\$)	(\$)	(\$)	(\$)
AREA 17 : RODICK ROAD / MILLER ROAD PL	ANNING DISTRICT								
 1.0 <u>STORM WATER MANAGEMENT</u> 1.1 Miller Avenue Storm 1.2 Rodick Road Storm 1.3 Miller / Rodick SWM pond and Cl Subtotal Storm Water Manageme 		\$ 1,581,741 \$ 1,068,834 \$ 19,005,161 \$ 21,655,737	0% 0% 0%	\$ - \$ - <u>\$ -</u> \$ -	32% 32% 80%	\$ 498,341 \$ 336,745 <u>\$ 15,204,129</u> \$ 16,039,216	\$ 732,089 \$ 3,801,032	\$ 1,083,400 \$ 732,089 <u>\$ 3,801,032</u> \$ 5,616,521	\$ - \$ - \$ - \$ - \$ -
2.0 <u>SANITARY SEWERS</u> 2.1 Miller Avenue Sanitary Sewer 2.2 Rodick Road Sanitary Sewer Subtotal Sanitary Sewers SUBTOTAL AREA 17 <u>PROJECTS undertaken by CREDIT AGR</u> No Projects	Woodbine to Rodick Miller Avenue to 14th Avenue EEMENT	\$ 260,858 <u>\$ 241,022</u> \$ 501,880 \$ 22,157,617	0% 0%	\$- <u>\$-</u> \$- \$ -	100% 100%	\$ 260,858 <u>\$ 241,022</u> \$ 501,880 \$ 16,541,096	<u>\$ -</u> \$ -	\$ - <u>\$ -</u> \$ - \$ 5,616,521	\$ - \$ - \$ -
TOTAL AREA 17		\$ 22,157,617		\$-		\$ 16,541,096	\$ 5,616,521	\$ 5,616,521	\$-
L	.ess: Balance in Reserve as at June 30, 2 .ess: Credit as per Agreement .ess: Projects Funded from Reserve	2021				\$ 1,127,770 \$ - \$ -			
	Ne	Total Developm t Developable Area Develo	a (Ha.) to Pay N			\$ 17,668,866 26.657 \$ 662,823			



CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 23 : MOUNT JOY

Project Description		Total	Local Cos	t / by othe	rs	ASDC Grov	wth -	- Related		Others Sh	aring	and/or Non-G	Growth Cost		
Location	From / To	Gross Cost (\$)	Share (%)	Cost (\$)		Share (%)		Cost (\$)		Gross (\$)	(Others Cost (\$)	No	n-growth (\$)	
AREA 23 : MOUNT JOY															
1.0 <u>STORM WATER MANAGEMENT</u> 1.1 East/West Storm Sewer to Mo Sub-Total - Stormwater Mana		\$ 1,615,009 \$ 1,615,009	0%	\$	-	50%	\$	811,542 811,542	\$	803,467 803,467	\$	803,467 803,467	<u>\$</u> \$		
2.0 <u>SANITARY SEWERS</u> 2.1 Markham Road Corridor - Mou 2.1 Highway 48 Relief Sewer Outl Sub-Total - Sanitary Sewers SUBTOTAL AREA 23		\$ 1,179,867 <u>\$ 2,470,335</u> \$ 3,650,202 \$ 5,265,211	0% 0%	\$ <u>\$</u> \$	-	100% 29%	\$ \$ \$	1,179,867 713,927 1,893,794 2,705,336	\$ \$ \$	1,756,408 1,756,408 2,559,875	\$ \$ \$	1,756,408 1,756,408 2,559,875	\$ \$ \$		
<u>PROJECTS undertaken by CREDIT A</u> No Projects	GREEMENT														
TOTAL AREA 23		\$ 5,265,211		\$	-		\$	2,705,336	\$	2,559,875	\$	2,559,875	\$	-	
Less:	Balance in Reserve Credit as per Agreer Projects Funded fro	ment	21				\$ \$	(58,018) - -							

Total Development-Related Recoverable Costs	\$ 2,647,318
Net Developable Area (Ha.) to Pay New Dev Charge	15.274
Development Charge per Net Hectare	\$ 173,322



APPENDIX D

TABLE D-2

CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 42A-1 : HELEN AVENUE

Proje	ect Description	Total	Local (Cost / I	oy others	ASDC Grow	/th -	Related	Others Shar	ing and/or No	on-Gr	rowth Cost
Location	From / To	Gross Cost	Share		Cost	Share		Cost	Gross	Others Cost	No	on-growth
Location	From 7 To	(\$)	(%)		(\$)	(%)		(\$)	(\$)	(\$)		(\$)
AREA 42A-1 : HELEN AVENUE												
	uding sidewalk on N.S. Stage IV & V Avenue (east of Kennedy Road) Stage IV and V	\$ 958,638 \$ 220,240 \$ 47,558 \$ 1,226,436	0% 0% 0%	\$ \$ \$ \$	- - -	100% 83% 100%	69 69 69	958,638 183,240 47,558 1,189,436	\$ - \$ 37,000 <u>\$ -</u> \$ 37,000	\$ - \$ - \$ - \$ -	ର ବ ବ	37,000
2.0 <u>STORM WATER MANAGEMEN</u> 2.1 Helen Local Storm sewe Sub-Total - Stormwater	er Stage IV & V	\$ 484,693 \$ 484,693	0%	(A) (A)	-	66%	\$	318,025 318,025	\$ 166,668 \$ 166,668	\$ 166,668 \$ 166,668	\$ \$	-
3.0 SANITARY SEWERS												
3.1 Helen Avenue 3.2 Helen Avenue Sanitary Subtotal Sanitary Sewer	Stage IV and V sanitary sewer Kennedy To 255m easterly s	\$ 222,400 \$ 202,053 \$ 424,453	0% 0%	\$ \$	-	62% 100%	() () ()	137,888 202,053 339,941	\$ 84,512 \$ - \$ 84,512	\$ 84,512 \$ - \$ 84,512	\$	-
SUB-TOTAL AREA 42A-1		\$ 2,135,582		\$	-		\$	1,847,401	\$ 288,180	\$ 251,180	\$	37,000
4.0 PROJECTS undertaken by CRE 4.1 Helen Avenue N.S. 4.2 Urbanize existing Helen 4.3 Helen Local Storm sewe 4.4 Helen Avenue Sanitary 4.5 Existing Helen Avenue V	Relocation of existing poles Avenue including sidewalk on north side er Stages I, II & III East end to 697m westerly	\$ 83,441 \$ 652,724 \$ 756,544 \$ 281,787 \$ 51,700	0% 0% 34% 0% 0%	\$\$ \$\$ \$\$	- - 260,147 - -	100% 83% 66% 41% 100%	\$ \$ \$ \$	83,441 543,063 496,397 115,835 51,700	\$ 109,661 \$ - \$ 165,952 \$ -	\$ - \$ - \$ 165,952 \$ -	\$	109,661
SUBTOTAL CREDITS FROM A	AGREEMENT	\$ 1,826,196		\$	260,147		\$	1,290,436	\$ 275,613	\$ 165,952	\$	109,661
TOTAL AREA 42A.1		\$ 3,961,778		\$	260,147		\$	3,137,837	\$ 563,793	\$ 417,132	\$	146,661

Less: Less: Less:	Balance in Reserve as at June 30, 2021 Approved Credits Projects Funded from Reserve	\$ \$	(1,347) (2,063,068) (691,311)
	Total Development-Related Recoverable Costs Net Developable Area (Ha.) to Pay New Dev Charge Development Charge per Net Hectare	\$	382,111 2.164 176,576



CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 42B : MARKHAM CENTRE

Project Descrip	tion	Total	Local Cost	:/byo	others	ASDC Gr	owth -	Related	Oth	ers Sharing an	d/or	Non-Growth C	Cost	Project
Location	From / To	Gross Cost	Share		Cost	Share		Cost		Gross	(Others Cost	Non-growth	Shared With
Location	FTOILT/ TO	(\$)	(%)		(\$)	(%)		(\$)		(\$)		(\$)	(\$)	Area
AREA 42B : MARKHAM CENTRE														
1.0 SANITARY SEWERS														
1.1 Markham Centre		\$ 194,801	0%	\$	-	100%	\$	194,801	\$	-	\$	-	\$ -	
Subtotal Sanitary Sewers		\$ 194,801		\$	-		\$	194,801	\$	-	\$	-	\$ -	
2.0 <u>STUDIES</u>														
2.1 Secondary Plan Studies		\$ 935,000	0%	\$	-	73%	\$	687,132	\$	247,869	\$	247,869	\$ -	42A
Subtotal Studies		\$ 935,000		\$	-		\$	687,132	\$	247,869	\$	247,869	\$ -	
SUBTOTAL AREA 42B		\$ 1,129,801		\$	-		\$	881,933	\$	247,869	\$	247,869	\$-	
PROJECTS undertaken by CREDIT AGREE No Projects	<u>MENT</u>													
TOTAL AREA 42B		\$ 1,129,801		\$	-		\$	881,933	\$	247,868.50	\$	247,868.50	\$-	
Less:		Balance i	n Reserve as a	it June	30, 2021		\$	(74,313)						
Less:					d Credits		\$	-						
Less:		P	rojects Funde				\$	-						
		Total Developme	nt-Related Rev	overal	hle Coste		\$	807,620						
	N	et Developable Area					Ψ	100.993						
			ment Charge p		-		\$	7,997						



CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 42B.2 : MARKHAM CENTRE - CLEGG

Project Des	cription	Total	Local Cost	/ by ot	hers	ASDC Gro	wth -	Related	Others Shari	ng an	d/or Non-Gro	owth	Cost	Project
Location	From/To	Gross Cost	Share	C	ost	Share		Cost	Gross	Ot	hers Cost	Noi	n-growth	Shared With
Location	11011/10	(\$)	(%)	(\$)	(%)		(\$)	(\$)		(\$)		(\$)	Area
AREA 42B.2 : MARKHAM CENTRE - CLEO	GG													
1.0 <u>ROADS</u>														
1.1 Clegg Road Extension T Sub-Total - Roads	own Centre to Warden Ave	\$ 2,422,510 \$ 2,422,510	64%	<u>\$</u> \$	-	21%	\$ \$	504,473 504,473	 1,918,037 1,918,037	<u>\$</u> \$	1,882,167 1,882,167	\$ \$	35,870 35,870	42B.4
SUB-TOTAL AREA 42B.2		\$ 2,422,510					\$	504,473	\$ 1,918,037	\$	1,882,167	\$	35,870	
<u>PROJECTS undertaken by CREDIT /</u> No Projects	AGREEMENT													
TOTAL AREA 42B.2		\$ 2,422,510		\$	-		\$	504,473	\$ 1,918,037	\$	1,882,167	\$	35,870	
Less:		Balance	in Reserve as a	t June :	30, 2021		\$	199,392						
Less:			Credit as	per Agı	reement		\$	-						
Less:		P	Projects Funded	l from F	Reserve		\$	-						
		otal Developme evelopable Area					\$	703,865 4.163						
			oment Charge p		-		\$	169,076						



CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 42B.4 : MARKHAM CENTRE - HOTEL

Project Desc	ription	Total	Local Cost	t / by others	ASDC Grov	vth - Related	Others S	iharing and/or Non	-Growth Cost	Project Shared
Location	From / To	Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	Cost (\$)	Gross (\$)	Others Cost (\$)	Non-growth (\$)	With Area
AREA 42B.4 : MARKHAM CENTRE - HOTEL	-									
1.0 <u>ROADS</u> 1.1 Clegg Road Extension Sub-Total - Roads	Town Centre to Warden Ave	\$ 2,422,510 \$ 2,422,510	0%	<u>\$ -</u> \$ -	2%	\$ 46,103 \$ 46,103	\$ 2,376,407 \$ 2,376,407	\$ 2,340,537 \$ 2,340,537	\$ <u>35,870</u> \$35,870	42B.2
2.0 <u>SIDEWALKS</u> 2.1 Clegg Road Extension Sub-Total - Sidewalks		<u>\$25,849</u> \$25,849	0%	<u>\$-</u> \$-	100%	\$ 25,849 \$ 25,849	<u>\$ -</u> \$ -	<u>\$</u> - \$-	<u>\$</u> - \$-	
3.0 <u>STORM WATER MANAGEMENT</u> 3.1 Clegg Road Storm Sub-Total - Stormwater Man	Town Centre to Warden agement	\$519,986 \$519,986	0%	<u>\$-</u> \$-	48%	\$ 252,146 \$ 252,146	<u>\$ 267,840</u> \$ 267,840	\$ 267,840 \$ 267,840	<u>\$</u> - \$-	42B.2
4.0 <u>SANITARY SEWERS</u> 4.1 Clegg Road Sanitary 4.2 Courtyard Lane (NS Road) Sa Sub-Total - Sanitary Sewers	Town Centre to Warden Avenue anitary Sewer	\$ 217,006 <u>\$ 54,674</u> <u>\$ 271,680</u>	0% 0%	\$- <u>\$-</u> \$-	37% 37%	\$ 80,105 <u>\$ 20,182</u> <u>\$ 100,287</u>	\$ 136,901 <u>\$ 34,492</u> \$ 171,393	\$ 136,901 <u>\$ 34,492</u> \$ 171,393	\$ - <u>\$ -</u> \$ -	42B.2 42B.2
SUBTOTAL AREA 42B.4		\$ 3,240,025		\$-		\$ 424,385	\$ 2,815,640	\$ 2,779,770	\$ 35,870	
PROJECTS undertaken by CREDIT AC No Projects	<u>REEMENT</u>									
TOTAL AREA 42B.4		\$ 3,240,025		\$ -		\$ 424,385	\$ 2,815,640	\$ 2,779,770	\$ 35,870	

Less: Balance in Reserve as at June 30, 2021

Less: Credit as per Agreement

Less: Projects Funded from Reserve \$ 23,525 Check if works funded from this reserve

\$ Total Development-Related Recoverable Costs \$ 447,910 Net Developable Area (Ha.) to Pay New Dev Charge

\$

-

0.500

\$ 895,820

Development Charge per Net Hectare



CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 42B.6 : MARKHAM CENTRE - SOUTH HIGHWAY 7

Project Descrip	otion	Total	Local Cos	t / by others	ASDC Grov	wth - Related	arowth Cost		
Location	From / To	Gross Cost	Share	Cost	Share	Cost	Gross	Others Cost	Non-growth
Location	F10117 10	(\$)	(%)	(\$)	(%)	(\$)	(\$)	(\$)	(\$)
AREA 42B.6 : MARKHAM CENTRE - SOUTH HIGH	HWAY 7								
1.0 STORM WATER MANAGEMENT 1.1 Sheridan Pond (Construction) 1.2 Sheridan Storm Sewer Hi Sub-Total - Stormwater Management	ighway 7 to Sheridan Pond nt	\$ 1,582,964 <u>\$ 1,810,704</u> \$ 3,393,668	0% 0%	\$ - <u>\$ -</u> \$ -	1% 2%	\$ 20,481 <u>\$ 31,130</u> \$ 51,611	\$ 1,562,483 <u>\$ 1,779,574</u> \$ 3,342,057	\$ 1,562,483 <u>\$ 1,779,574</u> \$ 3,342,057	\$ - \$ \$ -
	illage Parkway to Main Street Unionville wy 7 to YDSS	\$16,630,334 <u>\$762,093</u> \$17,392,427 \$20,786,095	0% 0%	\$ - <u>\$ -</u> \$ -	61% 61%	\$10,069,470 <u>\$461,438</u> \$10,530,908 \$10,582,519	\$ 6,560,864 <u>\$ 300,655</u> \$ 6,861,519 \$ 10,203,576	\$ 6,560,864 <u>\$ 300,655</u> \$ 6,861,519 \$ 10,203,576	\$ -
3.0 <u>CREDITS FOR PROJECTS UNDERTAKEN E</u> 3.1 Sanitary Sewers	BY CREDIT AGREEMENT	\$ -	0%	\$-	0%	\$ (3,795,207)		\$ -	3 -
SUBTOTAL CREDITS FROM AGREEMEN	NT	\$-		\$-	0%	\$(3,795,207)	\$-	\$-	\$-
TOTAL AREA 42B.6		20,786,095		\$-		\$ 6,787,312	\$ 10,203,576	\$ 10,203,576	\$-

Less:	Datalice in Reserve as at June 30, 2021	\$ (814,222)
Less:	Credit as per Agreement	\$	-
Less:	Projects Funded from Reserve	\$	-
	Total Development-Related Recoverable Costs	\$5,	973,090
	Net Developable Area (Ha.) to Pay New Dev Charge		4.829

Development Charge per Net Hectare

\$ 1,405,532

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CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 42B.8 : MARKHAM CENTRE - SCIBERRAS

Project Desc	ription		Total	Local Co	ost / b	y others	ASDC G	irowth	- Related	Others Sha	aring	and/or Non-G	rowth	n Cost	Project
Location	From / To		Gross Cost	Share		Cost	Share		Cost	Gross	0	Others Cost	N	on-growth	Shared With
Ebcation	110117/10		(\$)	(%)		(\$)	(%)		(\$)	(\$)		(\$)		(\$)	Area
AREA 42B.8 : MARKHAM CENTRE - SCIBERRAS															
1.0 <u>ROADS</u>															
1.1 Sciberras Dr (ROW)	Highway 7 to Rouge River	\$	2,132,284	0%	\$	-	86%	\$	1,827,672	\$ 304,612	\$	304,612	\$	-	CWH
Sub-Total - Roads		\$	2,132,284		\$	-		\$	1,827,672	\$ 304,612	\$	304,612	\$	-	
2.0 STORM WATER MANAGEMENT															
2.1 Sheridan Pond (Construction)		\$	1,582,964	0%	\$	-	22%	\$	353,590	\$ 1,229,374	\$	1,229,374	\$	-	9, 42b.6, ROY
2.2 Sheridan Storm Sewer	Highway 7 to Sheridan Pond	\$	1,810,704	0%	\$	-	2%	\$	31,130	\$ 1,779,574	\$	1,779,574	\$	-	9, 42b.6, ROY
2.3 Area 42B-8 Stub to Pond		\$	49,945	0%	\$	-	100%	\$	49,945	\$ -	\$	-	\$	-	
Sub-Total - Stormwater Management		\$	3,443,613		\$	-		\$	434,665	\$ 1,779,574	\$	3,008,948	\$	-	
3.0 SANITARY SEWERS															
3.1 Highway 7 Sanitary Sewer	Village Parkway to Main Street Unionville	\$	16.630.334	0%	\$	-	24%	\$	3,956,736	\$ 12,673,598	\$	12,673,598	\$	-	9, 42b.6
3.2 Highway 7 Sanitary Sewer	Hwy 7 to YDSS	\$	762,093	0%	\$	-	24%	\$	181,319	\$ 580,774	\$	580,774	\$	-	9, 42b.6
Sub-Total - Sanitary Sewers		\$	17,392,427	0,0	\$	-	2170	\$	4,138,055	\$ 13,254,372	\$	13,254,372	\$	-	01 12010
SUBTOTAL AREA 42B.8		\$	22,968,324		\$	-		\$	6,400,392	\$ 15,338,558	\$	16,567,932	\$	-	
CREDITS FOR PROJECTS UNDERTAKEN E	BY CREDIT AGREEMENT														
No Projecs															
TOTAL AREA 42B.8		\$	22,968,324		\$	-		\$	6,400,392	\$ 15,338,558	\$	16,567,932	\$	-	
Less			Balance in Res		+ luna	20. 2021		¢	750.458						
Less				Credit as a		,		э \$	- 100,400						
Less				ts Funded		-		э \$	-						
			Development-Re					\$	7,150,850						
	Net		pable Area (Ha.)			~			4.799						
			Development	t Charge p	er Net	(Hectare		\$	1,490,071						



CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 42B.9 : MARKHAM CENTRE - EAST PRECINCT

Project Descrip	otion	Total	Local Cos	t / by others	ASDC Grov	vth - Related	Others S	Sharing and/or Non-	Growth Cost
Location	From / To	Gross Cost	Share	Cost	Share	Cost	Gross	Others Cost	Non-growth
		(\$)	(%)	(\$)	(%)	(\$)	(\$)	(\$)	(\$)
AREA 42B.9 : MARKHAM CENTRE - EAST PR	RECINCT								
1.0 <u>STORM WATER MANAGEMENT</u> 1.1 E.P., Enterprise Phase 1- Local 1.2 E.P., South Pond, Kennedy/YM Sub-Total - Stormwater Manag	ICA	\$ 956,874 <u>\$ 113,743</u> \$ 1,070,617	0% 0%	\$- <u>\$-</u> \$-	100% 100%	\$ 956,874 <u>\$ 113,743</u> \$ 1,070,617	\$ \$	- \$ - <u>\$ -</u> \$ -	\$ - \$ - \$ -
2.0 <u>SANITARY SEWERS</u> 2.1 E.P Remaining Sanitary Sewer 2.2 E.P., Enterprise Phase I Sanita 2.3 Enterprise Phase II Sanitary Su Sub-Total - Sanitary Sewers	ary Sewer	\$ 332,240 \$ 780,378 <u>\$ 59,754</u> \$ 1,172,371	0% 0% 0%	\$ - \$ - \$ - \$ -	100% 100% 100%	\$ 332,240 \$ 780,378 <u>\$ 59,754</u> \$ 1,172,371	\$ \$	- \$ - - \$ - <u>*</u>	\$ - \$ - \$ - \$ -
3.0 <u>STUDIES</u> 3.1 Studies Sub-Total - Studies		\$ 300,000 \$ 300,000	0%	<u>\$-</u> \$-	100%	\$ <u>300,000</u> \$300,000		<u>\$</u> - \$-	\$-
4.0 <u>WATER</u> 4.1 E.P Remaining Watermain Sew Sub-Total - Water	rers	\$ <u>582,364</u> \$582,364	0%	<u>\$-</u> \$-	100%	\$ 582,364 \$ 582,364	<u>\$</u> \$ -	<u>-</u> <u>\$ -</u> \$ -	\$ - \$ -
SUBTOTAL AREA 42B.8 PROJECTS undertaken by CREDIT A	GREEMENT	\$ 3,125,352		\$-		\$ 3,125,352	\$-	\$-	\$-
No Projects TOTAL AREA 42B.9		\$ 3,125,352		\$-		\$ 3,125,352	\$-	\$-	\$-

Less:	Balance in Reserve as at June 30, 2021	\$ (1,663,489)	
Less:	Credit as per Agreement	\$	-	
Less:	Projects Funded From Reserve	\$	-	
	Total Development-Related Recoverable Costs	\$	1,461,863	
	Net Developable Area (Ha.) to Pay New Dev Charge		6.183	
	Development Charge per Net Hectare	\$	236,433	



CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 46: CATHEDRAL

Project Description		Total	Local Cost	/ by others	ASDC Grow	th - Related	Others Sha	aring and/or Non-G	irowth Cost
Location	From / To	Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	Cost (\$)	Gross (\$)	Others Cost (\$)	Non-growth (\$)
AREA 46: CATHEDRAL									
 1.0 <u>SANITARY SEWERS</u> 1.1 Existing Sanitary Oversizing and Deepening S of Major Mackenzie 1.2 Woodbine North Relief Sewer Sub-Total - Sanitary Sewers 2.0 <u>WATER</u> 	to 404 Region Trunk Sewer	\$ 205,800 <u>\$ 621,899</u> \$ 827,699	0% 0%	\$- <u>\$-</u> \$-	100% 70%	\$ 205,800 <u>\$ 435,855</u> \$ 641,655	\$- <u>\$186,044</u> \$186,044	\$- <u>\$186,044</u> \$186,044	\$- \$- \$-
2.1 Woodbine by-pass (300mm) Sub-Total - Water	Elgin Mills to Lord Melbrone	\$ 247,940 \$ 247,940	85%	\$210,749.00 \$210,749	0%	<u>\$-</u> \$-	<u>\$</u> - \$-	<u>\$ </u>	<u>\$</u> - \$-
SUBTOTAL AREA 46		\$ 1,075,639		\$ 210,749		\$ 641,655	\$ 186,044	\$ 186,044	\$-
3.0 <u>PROJECTS undertaken by CREDIT AGREEMENT</u> 3.1 Exist. Sanitary Oversizing & Deepening S. of Major Mackenzie Dr. SUBTOTAL CREDITS FROM AGREEMENT	by Woodbine Cachet West Inc.	\$ 399,500 \$ 399,500	0%	<u>\$ -</u> \$ -	100%	\$ 399,500 \$ 399,500		<u>\$</u>	<u>\$</u>
TOTAL AREA 46		\$ 1,475,139		\$ 210,749		\$ 1,041,155	\$ 186,044	\$ 186,044	\$-

Less: Less: Less:	Balance in Reserve as at June 30, 2021 Credit as per Agreement Projects Funded From Reserve	\$ \$ \$	(198,589) (290,350) -
	Total Development-Related Recoverable Costs Net Developable Area (Ha.) to Pay New Dev Charge	\$	552,216 57.994
	Development Charge per Net Hectare	\$	9,522



CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 47B: YORK DOWNS

Project I	Description	Total	Local Cos	t / by others	ASDC Gr	owth -	Related	Others Sharing and/or Non-Growth					vth Cost		
Location	From / To	Gross Cost	Share	Cost	Share		Cost		Gross	0)thers Cost		-growtl		
Edeation	110117/10	(\$)	(%)	(\$)	(%)		(\$)		(\$)		(\$)		(\$)	((\$)
AREA 47B: YORK DOWNS															
1.0 <u>SANITARY SEWERS</u> 1.1 York Downs Sanitary	,	\$ 1,633,761	0%	<u>s</u> -	10%	\$	158,977	\$	-	\$	-	\$			
Sub-Total - Sanitary		\$ 1,633,761	0.0	\$ -	10/0	\$	158,977	\$	-	\$	-	\$	-		
2.0 <u>STRUCTURES</u> 2.1 Angus Glen crossing Sub-Total - Structur		\$ 2,821,837 \$ 2,821,837	0%	<u>\$ -</u> \$ -	10%	\$	282,184 282,184	<u>\$</u> \$	2,539,654 2,539,654	<u>\$</u> \$	2,539,654 2,539,654	\$ \$			
 3.0 <u>STUDIES</u> 3.1 Class E.A. Study - So 3.2 External Traffic Stud 3.3 North Markham Sub Sub-Total - Studies 	У	\$ 17,636 \$ 127,812 <u>\$ 29,542</u> \$ 174,990	0% 0% 0%	\$ - \$ - \$ -	35% 35% 35%	\$ \$ \$	6,200 44,934 <u>10,386</u> 61.521	\$		\$ \$	- - -	\$	-		
SUBTOTAL AREA 47B		\$ 4,630,589		s -		э \$	502,681	, ∳	2,539,654	э \$	2,539,654	э \$	-		
<u>PROJECTS undertaken by</u> No Projects	CREDIT AGREEMENT														
TOTAL AREA 47B		\$ 4,630,589		\$-		\$	502,681	\$	2,539,654	\$	2,539,654	\$	-		

Less:	Balance in Reserve as at June 30, 2021	\$ (379,541)	
Less:	Credit as per Agreement	\$ -	
Less:	Projects Funded From Reserve	\$ -	
		\$ -	
	Total Development-Related Recoverable Costs	\$ 123,140	
	Net Developable Area (Ha.) to Pay New Dev Charge	14.999	
	Development Charge per Net Hectare	\$ 8,210	



CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 49: 404 NORTH EMPLOYMENT LANDS

Project Descr	iption	Total	Local Cost	/ by others		ASDC Grov	wth - R	Related		Others Shar	ing ar	nd/or Non-Gro	wth C	ost	Project
Location	From / To	Gross Cost	Share	Cost		Share		Cost		Gross	0	thers Cost		growth	Shared With
	,	(\$)	(%)	(\$)		(%)		(\$)	(\$)		(\$)		(\$)		Area
AREA 49: 404 NORTH EMPLOYMENT LAND	S														
1.0 <u>ROADS</u> Subotal Roads		<u>\$</u>	0%	<u>\$</u> - \$-	<u> </u>	0%	\$		\$		\$ \$		\$		
Substar rouds		Ŷ		Ψ			Ψ		Ψ		Ψ		Ψ		
2.0 <u>SANITARY SEWERS</u> 2.1 Woodbine North Relief Sewer	to 404 Region Trunk Sewer	\$ 621,899	0%	\$ -	-	30%	\$	186,044	\$	435,855	\$	435,855	\$	-	46
2.2 Woodbine by-pass Sanitary s	ewer, Phase 1, to Lord Melborne	\$ 4,400,396	0%	\$ -	-	42%	\$	1,848,166	\$	2,552,230	\$	2,552,230	\$	-	
Subtotal Sanitary Sewers		\$ 5,022,295		\$ -	-		\$	2,034,211	\$	2,988,084	\$	2,988,084	\$	-	
SUBTOTAL AREA 49		\$ 5,022,295		\$-			\$	2,034,211	\$	2,988,084	\$	2,988,084	\$	-	
PROJECTS undertaken by CREDIT AC No Projects	GREEMENT														
TOTAL AREA 49		\$ 5,022,295		\$-			\$	2,034,211	\$	2,988,084	\$	2,988,084	\$	-	

Less:	Balance in Reserve as at June 30, 2021	\$ (1,022,798)
Less:	Credit as per Agreement	\$ -
Less:	Projects Funded From Reserve	\$ -
	Total Development-Related Recoverable Costs	\$ 1,011,413
	Net Developable Area (Ha.) to Pay New Dev Charge	55.674
	Development Charge per Net Hectare	\$ 18,166.69

APPENDIX D

TABLE D-2

TOWN OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 50A : FUTURE URBAN AREA

Project	Description	Total	Local Cost	/ by others	ASDC Grow	rth - Related	Others Sh	aring and/or No	n-Growth Cost	
Location	From / To	Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	Cost (\$)	Gross (\$)	Others Cost (\$)	Non-growth (\$)	Project Shared With Area
AREA 50A : FUTURE URBAN ARI	ĒA									
1.0 <u>STUDIES</u> 1.1 Master Servicing, Tra Sub-Total - Studies	nsporation, Subwatershed Study	<u>\$ 7,969,659</u> \$ 7,969,659	0%	<u>\$-</u> \$-	95%	<u>\$ 7,587,159</u> \$ 7,587,159		\$ 382,500 \$ 382,500		СМН
SUBTOTAL AREA 50		\$ 7,969,659		\$-		\$ 7,587,159	\$-	\$ 382,500	\$-	
TOTAL AREA 50A		\$ 7,969,659		\$-		\$ 7,587,159	\$-	\$ 382,500	\$-	
Less:		Balance		at June 30, 2021		\$-				
Less: Less:				s per Agreement d From Reserve		\$- \$-				
	Net	Developable Area Develo	a (Ha.) to Pay N	lopment Charge lew Dev Charge per Net Hectare		 7,587,159 642.05 11,817 				



CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 50A-1 : FUTURE URBAN AREA - EMPLOYMENT BLOCK

		Project Description	Total	Local Cost / by others			ASDC	Growt	th - Related	Others S	n-Grov	wth Cost	
	Location	From / To	Gross Cost	Share		Cost	Share		Cost	Gross	Others Cost	No	on-growth
	Location		(\$)	(%)		(\$)	(%)		(\$)	(\$)	(\$)		(\$)
AREA 50A-1	: FUTURE URBAN AREA - EMPLOYMEN	BLOCK											
1.0 SANI	ITARY SEWERS												
1.1	Employment Lands West Sewer	19th Avenue to Elgin Mills	\$ 8.224.000	63%	\$	5.181.000	37%	\$	3.043.000	\$ -	\$ -	\$	-
1.2	Employment Lands East Sewer	19th Avenue to Elgin Mills	\$ 8,664,000	63%	\$	5,484,000	37%	\$	3,180,000	\$ -	\$ -	\$	-
1.3	Berczy Glen Sewer	South Side of Elgin Mills to West Side of Warden	\$ 11,558,808	0%	\$		42%	\$	4,858,808	\$ 6,700,000	\$ 6,700,000	\$	-
1.4	Angus Glen Sewer	Sewer - West Side of Warden to Street A/Street E Intersection	\$ 17,070,527	0%	\$	-	43%	\$	7,341,729	\$ 9,728,798	\$ 9,728,798	\$	-
1.5	Angus Glen Sewer	West Side of Warden to Street A and Street E Intersection (easement land)	\$ 1,000,000	0%	\$	-	43%	\$	430,082	\$ 569,918	\$ 569,918	\$	-
1.6	Angus Glen Sewer	Street A/Street E intersection to north end of Community Centre Entrance	\$ 2,218,842	0%	\$	-	29%	\$	646,119	\$ 1,572,723	\$ 1,572,723	\$	-
1.7	Angus Glen Sewer	North End of Community Centre Entrance to Major Mackenzie	\$ 1,696,038		\$	-	18%	\$	311,050	\$ 1,384,988	\$ 1,384,988		
1.8	Angus Glen Boulevard Sewer	Major Mackenzie to Stollery	\$ 8,063,000	0%	\$	-	29%	\$	2,347,918	\$ 5,715,082	\$ 5,715,082	\$	-
1.9	Angus Glen Boulevard Sewer	Stollery to Existing Golf Course	\$ 7,862,000	0%	\$	-	23%	\$	1,804,171	\$ 6,057,829	\$ 6,057,829	\$	-
2.0	York Downs West Sewer	Angus Glen Boulevard to Proposed Street C	\$ 4,016,000	0%	\$	-	9%	\$	371,780	\$ 3,644,220	\$ 3,644,220	\$	-
2.1	York Downs West Sewer	Angus Glen Boulevard to 16th Avenue (easement land)	\$ 445,000	0%	\$	-	19%	\$	84,743	\$ 360,25	\$ 360,257	\$	-
2.2	Creek Crossing and Connection to YDSS		\$ 6,439,000	0%	\$	-	17%	\$	1,114,091	\$ 5,324,909	\$ 5,324,909	\$	-
	Subtotal Sanitary Sewers		\$ 77,257,215		\$	10,665,000		\$	25,533,491	\$ -	\$41,058,724	\$	-
SUB	-TOTAL AREA 50A-1		\$ 77,257,215		\$	10,665,000		\$	25,533,491	\$-	\$41,058,724	\$	-
тот	AL AREA 50A-1		\$ 77,257,215		\$	10,665,000		\$	25,533,491	\$-	\$41,058,724	\$	-

\$ -	Balance in Reserve as at June 30, 2021
\$ -	Credit as per Agreement
\$ -	Projects Funded From Reserve

Total in Development Charge	\$ 25,533,491
Net Developable Area (Ha.) to Pay New Dev Charge	220.430

Development Charge per Net Hectare \$

220.430 \$ 115,835



Less: Less: Less:

APPENDIX D

TABLE D-2

CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 50A-2 : FUTURE URBAN AREA - ROBINSON GLEN BLOCK

Project Descr	iption	Total	Local Cost	/ by others	ASDC Grow	rth - Related	Others Sha	aring and/or No	on-Growth Cost
Location	From / To	Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	Cost (\$)	Gross (\$)	Others Cost (\$)	Non-growth (\$)
AREA 50A-2 : FUTURE URBAN AREA - ROBINSON GLE	N BLOCK								
 1.0 <u>SANITARY SEWERS</u> 1.1 Sanitary Sewer Servicing Through Upper Uni 1.2 Sanitary Sewer Servicing Through Berczy Vill 1.2 Sanitary Sewer Upgrade on The Bridle Walk Subtotal Sanitary Sewers 	llage	\$ 100,000 \$ 1,924,944 \$ 2,062,584 \$ 4,087,528	73%	\$ - \$ 1,404,146 <u>\$ -</u> \$ 1,404,146	100% 27% 100%	\$ 100,000 \$ 520,798 <u>\$ 2,062,584</u> \$ 2,683,382	\$- \$- \$- \$-	\$ - \$ - <u>\$ -</u> \$ -	\$- \$- \$- \$-
SUB-TOTAL AREA 50A-2		\$ 4,087,528		\$ 1,404,146		\$ 2,683,382		\$-	\$-
TOTAL AREA 50A-2		\$ 4,087,528		\$ 1,404,146		\$ 2,683,382		\$-	\$-
Less: Less: Less:			Credit as	t June 30, 2021 per Agreement I From Reserve		\$- \$- \$-			

Total Development-Related Recoverable Costs	\$ 2	,683,382	
Net Developable Area (Ha.) to Pay New Dev Charge		154.650	
Development Charge per Net Hectare	\$	17,351	



CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 50A-3 : FUTURE URBAN AREA - BERCZY GLEN BLOCK

		Project Description	Total	Local Co:	st / by others	ASDC Gro	wth - Related	Others Sharing and/or Non-Growth			
	Location	From / To	Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	Cost (\$)	Gross (\$)	Others Cost (\$)		growth
REA 50A-3	: FUTURE URBAN AREA - BERCZY GLEN	BLOCK									
1.0 <u>SANI</u>	ITARY SEWERS										
1.1	Berczy Glen Sewer	South Side of Elgin Mills to West Side of Warden	\$ 11,558,808	63%	\$7,252,670.31	0%	\$ -	\$ 4,858,808	\$ 4,858,808	\$	-
1.2	Angus Glen Sewer	West Side of Warden to Street A/Street E Intersection	\$ 17,070,52	0%	\$ -	57%	\$ 9,728,798		\$ 7,341,729	\$	-
1.3	Angus Glen Sewer	West Side of Warden to Street A and Street E Intersection (easement land)	\$ 1,000,000	0%	\$ -	57%	\$ 569,918	\$ 430,082	\$ 430,082	\$	-
1.4	Angus Glen Sewer	Street A/Street E intersection to north end of Community Centre Entrance	\$ 2,218,842	2 0%	\$ -	39%	\$ 856,197	\$ 1,362,645	\$ 1,362,645	\$	-
1.5	Angus Glen Sewer	North End of Community Centre Entrance to Major Mackenzie	\$ 1,696,038	3 0%	\$ -	24%	\$ 412,184	\$ 1,283,854	\$ 1,283,854	\$	-
1.6	Angus Glen Boulevard Sewer	Major Mackenzie to Stollery	\$ 8,063,000	0%	\$ -	39%	\$ 3,111,314	\$ 4,951,686	\$ 4,951,686	\$	-
1.7	Angus Glen Boulevard Sewer	Stollery to Existing Golf Course	\$ 7,862,000	0%	\$ -	30%	\$ 2,390,774	\$ 5,471,226	\$ 5,471,226	\$	-
1.8	York Downs West Sewer	Angus Glen Boulevard to Proposed Street C	\$ 4,016,000	0%	\$ -	12%	\$ 492,659	\$ 3,523,341	\$ 3,523,341	\$	-
1.9	York Downs West Sewer	Angus Glen Boulevard to 16th Avenue (easement land)	\$ 445,000		\$ -	25%	\$ 112,296		\$ 332,703		-
2	Creek Crossing and Connection to YDSS		\$ 6,439,000	0%	\$ -	23%	\$ 1,476,324	\$ 4,962,676	\$ 4,962,676	\$	-
	Subtotal Sanitary Sewers		\$ 60,369,215	j	\$ 7,252,670		\$ 19,150,465	\$34,518,750	\$34,518,750	\$	-
SUB	-TOTAL AREA 50A-3		\$ 60,369,21	5	\$ 7,252,670		\$ 19,150,465		\$34,518,750	\$	-
тот	AL AREA 50A-3		\$ 60,369,21	5	\$ 7,252,670		\$ 19,150,465		\$34,518,750	\$	

Less:	Balance in Reserve as at June 30, 2021	\$	-
Less:	Credit as per Agreement	\$	-
Less:	Projects Funded From Reserve	\$	-
	Total Development-Related Recoverable Costs	\$ 1	9,150,465
	Net Developable Area (Ha.) to Pay New Dev Charge		93.840
	Development Charge per Net Hectare	\$	204,076



CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 50A-4 : FUTURE URBAN AREA - ANGUS GLEN BLOCK

	Project Description	Total	Local Co:	st / by others	i i	ASDC Growth - Related		Others Sharing and/or No		on-Growth Cost	
Location	From / To	Gross Cost	Share	Cost		Share	Cost	Gross	Others Cost		growth
Loodion		(\$)	(%)	(\$)		(%)	(\$)	(\$)	(\$)	(\$)
AREA 50A-4 : FUTURE URBAN AREA - ANGUS GLEN BLOCK											
1.0 <u>SANITARY SEWERS</u>											
1.1 Angus Glen Sewer	Street A/Street E intersection to north end of Community Centre Entrance	\$ 2,218,842	0%	\$	-	32%	\$ 716,526	\$ 1,502,316	\$ 1,502,316	\$	-
1.2 Angus Glen Sewer	North End of Community Centre Entrance to Major Mackenzie	\$ 1,696,038	0%	\$	-	20%	\$ 344,945	\$ 1,351,093	\$ 1,351,093	\$	-
1.3 Angus Glen Boulevard Sewer	Major Mackenzie to Stollery	\$ 8,063,000	0%	\$	-	32%	\$ 2,603,768	\$ 5,459,232	\$ 5,459,232	\$	-
1.4 Angus Glen Boulevard Sewer	Stollery to Existing Golf Course	\$ 7,862,000	0%	\$	-	47%	\$ 3,667,055	\$ 4,194,945	\$ 4,194,945	\$	-
1.5 York Downs West Sewer	Angus Glen Boulevard to Proposed Street C	\$ 4,016,000	0%	\$	-	24%	\$ 961,199	\$ 3,054,801	\$ 3,054,801	\$	-
1.6 York Downs West Sewer	Angus Glen Boulevard to 16th Avenue (easement land)	\$ 445,000	0%	\$	-	49%	\$ 219,095	\$ 225,905		\$	-
1.7 Creek Crossing and Connection to YDSS		\$ 6,439,000	0%	\$		45%	\$ 2,880,374		\$ 3,558,626	\$	-
Subtotal Sanitary Sewers		\$ 30,739,880		\$	-		\$11,392,962	\$19,346,918	\$19,346,918	\$	-
TOTAL AREA 50A-4		\$ 30,739,880		\$	-		\$11,392,962		\$19,346,918	\$	-
TOTAL AREA 50A-4		\$ 30,739,880		\$	-		\$11,392,962		\$19,346,918	\$	-
Less	:	Balan	ce in Reserve a	s at June 30,	2021		\$ -				

Less.	
Less:	
Less:	

Credit as per Agreement Projects Funded From Reserve	\$ \$	-
Total in Development Charge	. ,	92,962
Net Developable Area (Ha.) to Pay New Dev Charge Development Charge per Net Hectare	-	62.040 70,310



CITY OF MARKHAM DEVELOPMENT CHARGES BACKGROUND STUDY AREA-SPECIFIC GROWTH-RELATED PROJECTS AREA 50A-5 : FUTURE URBAN AREA - ROBINSON GLEN - SOUTH BLOCK

F	Project Description		Total	Local Co	ASDC Grow	ASDC Growth - Related			Others Sharing and/or Non-Grow		
Location	From / To	(Gross Cost	Share	Cost	Share		Cost	Gross	Others Cost	Non-growth
Location			(\$)	(%)	(\$)	(%)		(\$)	(\$)	(\$)	(\$)
AREA 50A-5 : FUTURE URBAN AREA - ROBINSON GLEN	- SOUTH BLOCK										
 1.0 <u>SANITARY SEWERS</u> 1.1 York Downs West Sewer 1.2 York Downs West Sewer 1.3 Creek Crossing and Connection to YDSS 	Angus Glen Boulevard to Proposed Street C Angus Glen Boulevard to 16th Avenue (easement land)	\$	4,016,000 445,000 6,439,000	0% 0% 0%	\$ - \$ - \$ -	3% 6% 6%	\$ \$	28,865 379,484	\$ 6,059,516	\$ 416,135 \$ 6,059,516	\$ - \$ - \$ -
Subtotal Sanitary Sewers TOTAL AREA 50A-5		\$ \$	10,900,000 10,900,000		\$- \$-		\$ \$	534,985 534,985			\$ - \$ -
TOTAL AREA 50A-5		\$	10,900,000		\$-		\$	534,985	\$10,365,015	\$10,365,015	\$-
Less:			Balan	ce in Reserve a	as at June 30, 202	1	\$	-			

Less: Less:

Balance in Reserve as at June 30, 2021	\$ -
Credit as per Agreement	\$ -
Projects Funded From Reserve	\$ -
Total in Development Charge	\$ 534,985
Net Developable Area (Ha.) to Pay New Dev Charge	11.090
Development Charge per Net Hectare	\$ 48,240

Appendix E Reserve Fund Balances



Appendix E: Reserve Fund Balances

Table E-1 presents the uncommitted reserve fund balances that are available to help fund the development-related net capital costs identified in this study. The closing balances of the development charges reserve funds as at June 30th, 2021 have been adjusted to account for current commitments to reserve fund projects. All of the adjusted reserve fund balances are accounted for in the study. The overall balance stood at \$80.22 million. There are \$45.56 million in commitments available to fund development-related projects to yield an uncommitted reserve fund balance of \$34.66 million which is brought forward to fund the DC capital programs.

The existing reserve fund balances for the Area-Specific reserves are shown in Table E-2. These funds are either assigned to projects in the initial years of the capital program for each service or to the opening balance of the cash flow calculations. The effect is to reduce and defer capital costs brought forward to the development charge calculation and the cash flow analysis.



APPENDIX E TABLE E-1

DEVELOPMENT CHARGE RESERVE FUND BALANCE BY ACCOUNT FOR CITY-WIDE SERVICES QUARTER ENDING JUNE 30TH 2021

Service	Reserve Fund Balance as at June 30 2021	Commitments	Uncommitted Reserve Funds
General Government	(\$12,449,685)	\$0	(\$12,449,685)
Library	\$5,343,182	\$0	\$5,343,182
Fire Services	\$4,881,985	\$0	\$4,881,985
Indoor Recreation	(\$46,852,432)	\$0	(\$46,852,432)
Park Development & Facilities	41,581,398.49	\$13,047,550	\$28,533,849
Public Works	\$2,358,669	\$4,706,567	(\$2,347,898)
Waste Diversion	\$523,823	\$0	\$523,823
Subtotal Development Charge Reserves- General Services	(\$4,613,060)	\$17,754,117	(\$22,367,177)
City-wide Hard Services	84,828,615.90	\$27,802,926	\$57,025,690
Total CWS and CWH Services	\$80,215,556	\$45,557,043	\$34,658,513



APPENDIX E TABLE E-2

CITY OF MARKHAM DEVELOPMENT CHARGES RESERVE FUND BALANCES FOR AREA-SPECIFIC

A	Balance as at
Area	June 30th, 2021
Area 1B	\$582,656
Area 5	\$675,358
Area 7	\$121,641
Area 9	\$1,270,491
Area 17	(\$1,127,770)
Area 23	\$58,018
Area 42A.1	\$1,347
Area 42B	\$74,313
Area 42B.2	(\$199,392)
Area 42B.4	(\$23,525)
Area 42B.6	\$814,222
Area 42B.8	(\$750,458)
Area 42B.9	\$1,663,489
Area 46	\$198,589
Area 47B	\$379,541
Area 49	\$1,022,798
Area 50A	\$0
Area 50A-1	\$0
Area 50A-2	\$0
Area 50A-3	\$0
Area 50A-4	\$0
Area 50A - 5	\$0

Appendix F

Long-Term Capital & Operating Impacts



APPENDIX F

TABLE F-1

CITY OF MARKHAM ESTIMATED NET OPERATING COST OF THE PROPOSED DEVELOPMENT-RELATED CAPITAL PROGRAM (in constant 2022 dollars)

		Net Cost	Estimated Operating Costs (\$000)									
		(in 2022\$)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
LIBRARY												
- Buildings, Land and Furnishings	\$75.00	per sq.ft. of new	\$1,500.0	\$1,500.0	\$1,500.0	\$1,500.0	\$3,750.0	\$3,750.0	\$3,750.0	\$3,750.0	\$5,250.0	\$5,250.0
		library space										
FIRE SERVICES												
- Buildings, Land and Furnishings	\$460.00	per sq.ft. of new	\$4,600.0	\$9,200.0	\$9,200.0	\$13,800.0	\$13,800.0	\$13,800.0	\$13,800.0	\$13,800.0	\$13,800.0	\$21,160.0
		fire station space										
INDOOR RECREATION												
- Buildings, Land & Furnishings	\$20.00	per sq.ft. of new	\$0.0	\$0.0	\$200.0	\$400.0	\$1,200.0	\$1,400.0	\$1,400.0	\$2,180.0	\$5,580.0	\$5,580.0
		recreation space										
PARK DEVELOPMENT & FACILITIES												
- Park Development and Facilities	\$20.00	per \$1,000 of total	\$571.7	\$874.86	\$2,193.6	\$2,880.8	\$4,239.0	\$4,981.4	\$5,834.6	\$6,126.7	\$6,365.2	\$6,519.8
		infrastructure value										
PUBLIC WORKS												
- Buildings, Land and Fleet	\$20.00	per \$1,000 of total	\$54.6	\$1,284.07	\$1,359.3	\$2,062.1	\$2,077.8	\$2,094.2	\$2,120.1	\$2,136.2	\$2,155.9	\$2,155.9
		infrastructure value										
WASTE DIVERSION												
	\$60.00	per household	\$175.6	\$355.63	\$540.3	\$729.7	\$924.0	\$1,121.0	\$1,323.0	\$1,530.1	\$1,742.5	\$1,960.4
		infrastructure value										
City-Wide Hard												
- Development-Related Roads Infrastructure	\$320.00	per household	\$936.4	\$1,896.7	\$2,881.7	\$3,891.9	\$4,927.8	\$5,978.6	\$7,056.1	\$8,160.7	\$9,293.5	\$10,455.2
TOTAL ESTIMATED OPERATING COSTS			\$7,838.2	\$15,111.2	\$17,874.8	\$25,264.5	\$30,918.5	\$33,125.2	\$35,283.7	\$37,683.8	\$44,187.1	\$53,081.3



APPENDIX F

TABLE F-2

CITY OF MARKHAM SUMMARY OF TAX SUPPORTED FUNDING REQUIREMENTS

Net Capital Cost of	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
Development-Related Projects	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)
GENERAL GOVERNMENT											
Total Net Cost (1)	14,614.7	2,165.0	2,165.0	2,165.0	2,165.0	2,165.0	2,165.0	2,165.0	2,165.0	2,165.0	34,099.7
Net Cost From Development Charges In-Period (2)	14,614.7	2,165.0	2,165.0	2,165.0	2,165.0	2,165.0	2,165.0	2,165.0	2,165.0	2,165.0	34,099.7
Net Cost From Other Sources	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Prior Growth (3)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Available DC Reserves (4)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Replacement & Benefit to Existing (5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- For Post 2031 Development (6)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LIBRARY											
Total Net Cost (1)	19,301.1	0.0	0.0	0.0	29,980.2	0.0	0.0	0.0	38,602.1	0.0	87,883.4
Net Cost From Development Charges In-Period (2)	13,957.9	0.0	0.0	0.0	20,883.3	0.0	0.0	0.0	22,572.6	0.0	57,413.7
Net Cost From Other Sources	5,343.2	0.0	0.0	0.0	9,096.9	0.0	0.0	0.0	16,029.6	0.0	30,469.6
- Prior Growth (3)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Available DC Reserves (4)	5,343.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,343.2
- Replacement & Benefit to Existing (5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- For Post 2031 Development (6)	0.0	0.0	0.0	0.0	9,096.9	0.0	0.0	0.0	16,029.6	0.0	25,126.5
FIRE SERVICES											
Total Net Cost (1)	12,175.5	12,201.1	0.0	11,175.5	0.0	0.0	0.0	0.0	15,446.3	0.0	50,998.4
Net Cost From Development Charges In-Period (2)	7,293.5	12,201.1	0.0	11,175.5	0.0	0.0	0.0	0.0	15,319.2	0.0	45,989.4
Net Cost From Other Sources	4,882.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	127.0	0.0	5,009.0
- Prior Growth (3)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Available DC Reserves (4)	4,882.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,882.0
- Replacement & Benefit to Existing (5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- For Post 2031 Development (6)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	127.0	0.0	127.0
INDOOR RECREATION											
Total Net Cost (1)	46,852.4	0.0	6,765.0	6,765.0	54,460.0	6,765.0	0.0	57,524.5	169,805.0	0.0	348,936.9
Net Cost From Development Charges In-Period (2)	46,852.4	0.0	6,765.0	6,765.0	54,460.0	6,765.0	0.0	57,524.5	151,355.0	0.0	330,486.9
Net Cost From Other Sources	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,450.0	0.0	18,450.0
- Prior Growth (3)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Available DC Reserves (4)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Replacement & Benefit to Existing (5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- For Post 2031 Development (6)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,450.0	0.0	18,450.0
PARK DEVELOPMENT & FACILITIES											
Total Net Cost (1)	28,586.6	15,156.2	65,935.4	34,363.5	67,906.2	37,124.4	42,656.9	14,605.8	11,924.0	7,731.0	325,989.9
Net Cost From Development Charges In-Period (2)	5,293.9	11,842.7	64,007.7	34,363.5	50,210.2	3,425.7	0.0	0.0	0.0	0.0	169,143.7
Net Cost From Other Sources	23,292.7	3,313.5	1,927.7	0.0	17,696.0	33,698.8	42,656.9	14,605.8	11,924.0	7,731.0	156,846.3
- Prior Growth (3)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Available DC Reserves (4)	23,292.7	3,313.5	1,927.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28,533.8
- Replacement & Benefit to Existing (5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- For Post 2031 Development (6)	0.0	0.0	0.0	0.0	17,696.0	33,698.8	42,656.9	14,605.8	11,924.0	7,731.0	128,312.4

Notes: (1) For total development-related capital program see Appendix B.

(2) Share of capital program to be funded from development charges if calculated rates are fully implemented

(3) Portion of development-related capital program that has committed development charge funds.

(4) Portion of development-related capital program identified as available DC reserves (to be funded from present Development Charge reserve fund balances).

(5) Portion of development-related capital program identified as benefitting to the existing population.

(6) Post 2032 development-related net capital costs may be eligible for development charges in future DC by-laws, but interim financing of this share may be required



APPENDIX F

TABLE F-2

CITY OF MARKHAM SUMMARY OF TAX SUPPORTED FUNDING REQUIREMENTS

Net Capital Cost of	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
Development-Related Projects	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)
PUBLIC WORKS											
Total Net Cost (1)	2,728.2	61,475.3	3,760.0	35,140.7	786.2	817.9	1,294.8	809.3	982.0	0.0	107,794.3
Net Cost From Development Charges In-Period (2)	2,728.2	33,667.9	3,760.0	1,045.3	0.0	0.0	0.0	0.0	0.0	0.0	41,201.5
Net Cost From Other Sources	0.0	27,807.3	0.0	34,095.3	786.2	817.9	1,294.8	809.3	982.0	0.0	66,592.8
- Prior Growth (3)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Available DC Reserves (4)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Replacement & Benefit to Existing (5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- For Post 2031 Development (6)	0.0	27,807.3	0.0	34,095.3	786.2	817.9	1,294.8	809.3	982.0	0.0	66,592.8
WASTE DIVERSION											
Total Net Cost (1)	2,057.1	1,040.4	0.0	3,606.1	1,001.4	0.0	0.0	0.0	1,549.0	0.0	9,254.0
Net Cost From Development Charges In-Period (2)	1,533.3	1,040.4	0.0	3,088.3	1,001.4	0.0	0.0	0.0	0.0	0.0	6,663.4
Net Cost From Other Sources	523.8	0.0	0.0	517.8	0.0	0.0	0.0	0.0	1,549.0	0.0	2,590.6
- Prior Growth (3)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Available DC Reserves (4)	523.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	523.8
- Replacement & Benefit to Existing (5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- For Post 2031 Development (6)	0.0	0.0	0.0	517.8	0.0	0.0	0.0	0.0	1,549.0	0.0	2,066.8
TOTAL MUNICIPAL SERVICES											
Total Net Cost (1)	126,315.6	92,038.0	78,625.4	93,215.7	156,298.9	46,872.4	46,116.6	75,104.5	240,473.4	9,896.0	964,956.6
Net Cost From Development Charges (2)	92,273.9	60,917.2	76,697.7	58,602.6	128,719.9	12,355.7	2,165.0	59,689.5	191,411.8	2,165.0	684,998.3
Net Cost From Non-DC Sources	34,041.6	31,120.8	1,927.7	34,613.1	27,579.1	34,516.7	43,951.6	15,415.0	49,061.6	7,731.0	279,958.3
- Prior Growth (3)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Available DC Reserves (4)	34,041.6	3,313.5	1,927.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39,282.8
- Replacement & Benefit to Existing (5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- For Post 2031 Development (6)	0.0	27,807.3	0.0	34,613.1	27,579.1	34,516.7	43,951.6	15,415.0	49,061.6	7,731.0	240,675.5

Notes: (1) For total development-related capital program see Appendix B.

(2) Share of capital program to be funded from development charges if calculated rates are fully implemented

(3) Portion of development-related capital program that has committed development charge funds.

(4) Portion of development-related capital program identified as available DC reserves (to be funded from present Development Charge reserve fund balances).

(5) Portion of development-related capital program identified as benefitting to the existing population.

(6) Post 2032 development-related net capital costs may be eligible for development charges in future DC by-laws, but interim financing of this share may be required



Appendix G Cost of Growth Analysis



Appendix G: Asset Management Plan

The *Development Charges Act* now requires that municipalities complete an Asset Management Plan before passing a development charges by-law. A key function of the Asset Management Plan, as required by the legislation, is to demonstrate that all assets proposed to be funded under the development charges by-law are financially sustainable over their full life-cycle.

A. Asset Types

A summary of the future municipal-owned assets and estimated useful life assumptions for eligible DC services considered as part of the study are outlined in Table G-1 and Table G-2. Although all capital assets considered in the study have been identified, not all assets necessitate future replacement or ongoing maintenance activities. The exception and the justification is as follows:

- Some of the works identified may represent one-time expenditures and may be temporary in nature. Therefore, the assets would not be required to be replaced and no ongoing operation and maintenance costs exist.
 Such assets are identified as "not a long-term asset" in the table.
- Some projects do not relate to the emplacement of a tangible capital asset – some examples include the acquisition of land or the undertaking of development-related studies. These projects/costs do not necessarily require future replacement or ongoing maintenance. Such projects are identified as "not infrastructure" in the table.

It should be noted that the capital cost estimates prepared for each of the projects identified in this section include grouped costs of various individual elements, which, as a stand-alone item, may have its own useful life (ex. New buildings include: HVAC, structural elements, roof, etc.). Accordingly, the average useful life assumptions noted below are applicable to all project components.



APPENDIX G TABLE G-1

CITY OF MARKHAM SUMMARY OF MUNICIPAL ASSETS CONSIDERED CITY-WIDE SOFT SERVICES

Capital Project Description	Estimated Useful Life
Recovery of Negative DC Reserve Fund Balances	Not a Long-Term Asset
Land Acquisition	Not Infrastructure
Studies	Not Infrastructure
Buildings & Structures	40 Years
Fire Services Equipment	11 Years
Fire Vehicles - Fire Apparatus	g Years
Licensed Vehicles	7 Years
Non-Licensed Construction/Maintenance Equipment	7 Years
Library Furniture & Fixtures	10 Years
Library Media Collection	7 Years
Air-Supported Structures	20 Years
Artificial Turf	15 Years
Parks & Pathways - Lighting	30 Years
Parks & Pathways - Furnishings	10 Years
Parks & Pathways - Shelters	40 Years
Parks & Pathways - Skate Parks	25 Years
Parks & Pathways - Sport Field Structures	10 Years
Parks & Pathways - Pathways	15 Years
Parks & Pathways - Playground Structures	15 Years
Parks & Pathways - Waterplay Structures	20 Years

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APPENDIX G TABLE G-2

CITY OF MARKHAM SUMMARY OF MUNICIPAL ASSETS CONSIDERED CITY-WIDE HARD SERVICES

Capital Project Description	Estimated Useful Life
Bridges - Structure	75 Years
Bridges - Superstructure	25 Years
Right of Ways (RoWs) - Road Surface	25 Years
Right of Ways (RoWs) - Sidewalk	45 Years
Right of Ways (RoWs) - Sub-base	45 Years
Streetlighting	35 Years
Stormwater Ponds	10 Years
Drinking Water Distribution System	60 Years

No annual provisions have been identified for General Government as the development-related studies included in the General Government development charge category are not infrastructure and therefore have no long-term financial requirements.

B. Annual Provision

When assets require rehabilitation or are due for replacement, the source of funds is limited to reserves or contributions from operating. Capital expenditures to carry out the rehabilitation and replacement of aging infrastructure are not growth-related and are therefore not eligible for funding through development charge revenues or other developer contributions.



Based on the information obtained from City staff regarding useful life assumptions and the capital cost of acquiring and/or emplacing each asset, a provision for infrastructure replacement has been calculated for both the City-wide Soft (CWS) and City-wide Hard (CWH) services. Provisions for infrastructure replacement are initially calculated for each asset based on their useful life and the anticipated cost of replacement. The aggregate of all individual provisions form the required annual capital provision. In calculating the annual provisions, a number of assumptions are made to account for inflation (2.0 per cent) and interest (3.5 per cent).

Consistent with the requirements of the *Development Charge Act*, assets that are proposed to be funded under the development charges by-law have been included in the analysis. As a result, the total calculated annual provision for development charge related infrastructure has been netted down to consider the replacement of existing infrastructure or benefit-toexisting development. However, for reference, the annual replacement provisions associated with the non-development charge funded costs, including costs related to the ten per cent statutory discount, benefit-toexisting and post-period benefit have also been calculated.

Table G-3 provides an overview of the capital provisions required to replace the capital infrastructure proposed to be funded under the development charges by-law for both CWS and CWH services. As shown in Table G-3, by 2032, the City will need to fund an additional \$48.83 million per annum in order to properly fund the full life-cycle costs of the new assets related to the CWS and CWH services supported under the development charges bylaw.



APPENDIX G TABLE G-3

CITY OF MARKHAM ANNUAL ASSET MANAGEMENT PROVISION BY 2032

Service		- 2031 Program	Calculated AMP Annual Provision by 2032		
	DC Related Non-DC Related*		DC Related	Non-DC Related*	
General Government	\$34,099,685	\$0	\$0	\$0	
Library	\$58,120,079	\$29,763,300	\$2,655,609	\$1,130,342	
Fire Services	\$50,871,342	\$665,686	\$1,178,482	\$19,680	
Indoor Recreation	\$330,486,932	\$18,450,000	\$6,489,988	\$545,443	
Park Development & Facilities	\$198,116,166	\$127,873,767	\$6,170,758	\$5,318,051	
Public Works	\$41,201,500	\$66,592,795	\$431,808	\$1,667,971	
Waste Diversion	\$7,187,249	\$2,066,763	\$245,717	\$337,308	
City-Wide Hard	\$1,265,598,182	\$560,497,315	31,660,320	\$19,615,571	
TOTAL	\$1,985,681,136	\$805,909,625	\$48,832,682	\$28,634,367	

* Includes costs that will be recovered under future development charges studies (i.e. other development-related)



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C. Financial Sustainability of the Program

Future Revenue Growth

The calculated annual funding provision should be considered within the context of the City's projected growth. Over the next ten years (to 2031) the City is projected to increase by approximately 32,670 households, which represents a 29 per cent increase over the existing base. In addition, the City will also add approximately 55,590 new employees that will result in roughly 2.55 million square metres of additional non-residential building space.

This growth will have the effect of increasing the overall assessment base and additional user fee and charges revenues to offset the capital asset provisions required to replace the infrastructure proposed to be funded under the development charges by-law. The collection of these funds is intended to be allocated to the City's reserves for the future replacement of these assets.

Annual Budgetary Reviews

In addition, as part of the annual budget update the City also undertakes analysis of the Life-cycle Reserve Fund. The analysis includes anticipated funding requirements and potential funding shortfalls resulting from inflation, past growth and new assets. Funding requirements are examined over a 25 year period and mitigation measures are proposed for Council's consideration. Examples of mitigating measures that have been used historically in the City include increased revenue sources (including projected dividends), allocation of Federal Gas Tax funding towards life-cycle costs and transferring additional funds into the Life-cycle Reserve Fund.

Through this annual exercise, staff identify the required funding and propose mitigating measures in order to ensure there are sufficient funds in the reserve over a 25 year horizon. Life-cycle funding methodologies are also reviewed in order to ensure that the City is continuing to implement financially sustainable practices for funding the eventual replacement of assets.



The Program is Deemed Financially Sustainable

The calculated annual provisions identified in Table G-3 is considered to be financially sustainable as it is expected that the increased capital asset management requirements can be absorbed by the tax and user base over the long-term. Importantly, the City's annual review of the Life-cycle Reserve Fund will allow staff to continue to monitor and implement mitigating measures should the program become less sustainable.



Appendix H Local Service Definitions



Appendix H: Local Service Definitions

The following guidelines set out in general terms the size and nature of engineered infrastructure that is included in the City of Markham Development Charge Study, as a project to be eligible to be funded in part by development charges the following will apply:

- The project will be required to be listed in the most current City of Markham Development Charges Study.
- If any infrastructure does not add any additional capacity over and above the capacity requirement for that development, these projects are assumed to be the sole responsibility of the developer.
- Infrastructure that provides servicing or capacity for more than one development is not necessarily fully or partially funded from development charges. If a project is considered fully or partially local in nature, the City will require the benefiting land owners to fund the works directly.

The following policy guidelines are general principles by which staff will be guided in considering development applications. Each application will be considered on its own merits having regard to, among other factors, the nature, type and location of the development in any existing or proposed development in its surrounding area. These policy guidelines, the location and type of services required and their relationship to the proposed development and to existing and proposed development in the area, and subsection 59(2) of the *Development Charges Act, 1997*, will also be assessed.

These local service policy guidelines are subject to review and amendment by the City which may be independent of an amendment or update to the City's development charge by-laws.



The detailed engineering requirements for all work and/or development are governed by the City of Markham Official Plan, or if not specified in the Official Plan, by the approved detailed engineering standards.

The provision of local services is considered to be a direct developer responsibility under s.59 of the *DCA* and will (or may) be recovered under other agreement(s) with the land owner or developer. The issue of "local services" is being specifically considered for the services outlined in the following sections.

A. General

A local service is the infrastructure or component thereof required to develop a subdivision within the boundaries of the secondary plan in accordance with the City of Markham Standards and current level of service (LOS) or LOS determined by Council. The infrastructure is assumed by the City when the conditions of subdivision are met/secondary plan is completed.

Example:

- Residential and non-residential development with 23.0 m right of way (ROW) and 11.0 m asphalt (Engineering Standard MR6);
- Turn lanes;
- Parking bays;
- Bike lanes (on road and off road);
- Streetlights;
- Utilities;
- Municipal services;
- Sidewalks and multi use paths; and
- Storm water management facilities.



B. Area Specific Development Charge (ASDC)/City Wide Hard (CWH) Project Assessment

i. Illumination

- All illumination on arterial and collector roads NOT in a secondary plan/draft plan of subdivision are to be funded through CWH development charges.
- Illumination on collector and local roads in a draft plan are the responsibility of the local developer (local service).

ii. Intersections

 All intersection improvements/signals after assumption of a subdivision not paid for by the developer are to be funded through CWH development charges.

iii. Roads

- Any portion of the road (land and construction) greater than the 23.0 m ROW and 11.0 m asphalt in a residential plan of subdivision are to be funded through CWH development charge.
- Any portion of the road (land and construction) equal to or less than the 23.0 m ROW and 11.0 m asphalt in a residential subdivision is to be funded by the local developer.
- Improvements to assumed collector roads (rural to urbanize or widening) are to be funded through CWH development charges.
- New roads outside the draft plan of subdivision area to be funded through CWH development charges.



iv. Structures/Crossings

- Structures and crossings that have a cross section greater than a 23.0 m ROW and 11.0 m asphalt are considered to be of City-wide benefit and are to be funded fully through CWH development charges.
- Structures and crossings on local roads are generally considered to be a local service and a direct developer responsibility.
- In some situations a local structure/crossing may be shown to provide a City-wide or Area-wide benefit. In these situations a share of the cost, to a maximum of 25 per cent, may be recovered by CWH development charges. The determination of whether or not a local structure provides a City-Wide benefit is at the sole discretion of the City as is determining the share to be funded from CWH development charges.

v. Sidewalks/Multi-Use Paths/ Bike Lanes

- Sidewalks/multi-use paths/on road and off road bike lanes on arterial roads and collector roads not in a draft plan of a subdivision are to be funded through CWH development charges.
- Sidewalks/multi-use paths/on road and off road bike lanes on City roads in a draft plan of subdivision are local services and is the responsibility of the developer.
- Trails and pathways on greenlands (valley land or open space outside of a draft plan of subdivision) are to be funded through CWH development charges (65 per cent) and the local developer/non-growth (35 per cent).

vi. Studies

• These are recovered through CWH and ASDC depending on the geographic and benefitting area of the study.



vii. Water

- All watermains on arterial and collector roads not in a draft plan of subdivision are funded through CWH development charges.
- 300 mm diameter watermains or smaller in a draft plan are the responsibility of the local developer.
- Oversizing of watermains (>300 mm) in a draft plan are to be recovered through CWH development charges if it is triggered by external uses.

viii. Sanitary/Storm Sewers and Stormwater Management Facilities

• To be recovered through ASDC/Local.

ix. Enhanced Streetscaping

- Enhanced streetscaping on internal roads within a plan of subdivision or abutting site plan are to be recovered 50 per cent through CWH development charges and 50 per cent through the local developer/non-growth.
- Enhanced streetscaping on external arterial and collector roads are to be recovered 50 per cent through CWH development charges and 50 per cent through the local developer/non-growth.

x. Oversizing of Sanitary Sewers for Future Growth

 A sanitary sewer, either internal or external to a development and, required to service a specific development is considered local and funded by the developer. Sanitary sewers that can service more than one development or development area can either be funded by the local developer(s) or, may be eligible for recovery through an Area Specific Development Charge.



- Where requested by the City, sanitary sewers can be sized to provide capacity above and beyond the planned growth of a benefitting area. The cost of this oversizing, will be recovered through the City Wide Hard Development charges.
- Where oversizing costs incurred can be directly attributed to a
 geographic location, and an Area Specific Development Charge bylaw is created for this location, then the related costs and
 obligations will be reallocated from the CWH by-law to this new
 ASDC by-law.
- Oversizing costs represent the incremental or marginal differential in cost to construct the required pipe size for the benefitting population and, the larger pipe size for the projected future population.
- The oversizing cost will be recovered 50 per cent through the City Wide Hard development charges and 50 per cent will be allocated to post period benefit.

These policies are subject to ongoing review and update and to be approved by Council.



Appendix I Draft DC By-Laws (Available under Separate Cover)

