

DEVELOPMENT CHARGES BACKGROUND STUDY

City of Markham

HEMSON Consulting Ltd.

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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 2013 DC Background Study.

A. CITY OF MARKHAM DEVELOPMENT CHARGES REGIME

The City of Markham currently levies three types of development charges for the recovery 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), 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, 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 GROWTH-RELATED COSTS 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
- Parking
- 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)

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 & facilities, public works, parking 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 54,200 PEOPLE AND 57,300 EMPLOYEES OVER 10 YEARS

- A development forecast for the 10 year study period, 2013–2022, estimates that the City's population will grow by approximately 54,200 people and by about 98,200 to ultimate development (2031 for the purposes of this study).
- Population growth in new housing units is expected to add 67,200 people over the 2013–2022 period and 121,300 to ultimate development.

- The City's employment is forecast to grow by approximately 57,300 employees over the next 10 years and 74,300 to ultimate development.
- This employment growth is projected to generate about 2.55 million square metres of new non-residential building space between 2013 and 2022 and 3.18 million square metres to ultimate development (2031).
- The following is a summary of the projected growth for the City:

RESIDENTIAL FORECAST	Existing	2013 – 2022		2013 – 2031	
	As At 2012	Forecast Change	As At 2022	Forecast Change	As At 2031
Households	93,016	24,593	117,612	45,444	138,460
Population					
Census	305,713	54,204	359,917	98,240	403,953
In New Households		67,212		121,306	

NON-RESIDENTIAL FORECAST	Existing	2013 – 2022		2013 – 2031	
	As At 2012	Forecast Change	As At 2022	Forecast Change	As At 2031
Non-Residential Building Space (sq.m)		2,553,322		3,181,833	
Employment	166,125	57,283	223,408	74,288	240,413

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 and household, or net employment and household, growth in the City.
- This service level analysis utilizes (net) population plus households, or employment plus households to calculate the 10-year average historic service levels and the maximum permissible DC funding envelopes. This approach is utilized for all CWS services.
- 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 DEVELOPMENT CHARGES STUDY INCLUDES A \$524 MILLION GROWTH-RELATED CAPITAL PROGRAM FOR SOFT SERVICES OVER THE NEXT 10 YEARS AND A \$970 MILLION PROGRAM FOR HARD SERVICES TO ULTIMATE DEVELOPMENT

- The 2013–2022 growth-related capital program for soft services including General Government, Library, Fire, Indoor Recreation, Parks Development & Facilities, Public Works, and Parking totals \$524.4 million.
- The City-wide hard services net capital program totals an additional \$969.9 million. This amount is estimated to provide for development-related infrastructure required to 2031.
- The *DCA* requires that the gross capital costs be reduced by grants, subsidies, and recoveries from other governments; capital replacements or other benefits provided to the existing community; existing reserve fund balances; amounts that exceed historic service levels; and a statutory 10 per cent reduction for eligible soft services when calculating development charges.
- After these deductions the net growth-related soft services capital program is reduced to \$225.3 million, and the City-wide hard services growth-related capital program decreases to \$595.6 million. These amounts are eligible for recovery through development charges.

- The following is a summary of the development-related capital program.

Service	Gross Cost (\$000)	DC Eligible Cost For Recovery (\$000)
General Government	\$20,782.4	\$14,554.5
Library	\$25,589.6	\$18,709.3
Fire Services	\$23,188.5	\$22,519.0
Indoor Recreation	\$151,469.2	\$88,567.9
Park Development and Facilities	\$269,032.2	\$60,935.5
Public Works	\$33,608.7	\$19,431.4
Parking	\$694.7	\$625.2
Total – 10-Year Soft Services	\$524,365.3	\$225,342.9
Total – City-Wide Hard (to 2031)	\$969,912.9	\$595,576.8

H. PROPOSED CITY-WIDE CHARGES INCREASE OVER PRESENT CHARGES

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

Calculated Residential Charges for City-Wide Services

Service	Adjusted Charge Per Capita	Residential Charge By Unit Type (1)			
		Singles & Semis	Townhouses & Multiples	Large Apartments	Small Apartments
General Government	\$127.45	\$470	\$365	\$308	\$229
Library	\$308.45	\$1,137	\$882	\$746	\$555
Fire Services	\$192.22	\$709	\$550	\$465	\$346
Indoor Recreation	\$1,495.19	\$5,513	\$4,277	\$3,618	\$2,691
Park Development & Facilities	\$1,030.17	\$3,799	\$2,947	\$2,493	\$1,854
Public Works	\$167.65	\$618	\$480	\$406	\$302
Parking	\$5.02	\$19	\$14	\$12	\$9
Subtotal City Wide Soft Charge	\$3,326.15	\$12,265	\$9,515	\$8,048	\$5,986
City Wide Hard	\$2,737.00	\$10,092	\$7,829	\$6,624	\$4,927
Total Residential Charge	\$6,063.15	\$22,357	\$17,344	\$14,672	\$10,913
(1) Based on Persons Per Unit Of:		3.69	2.86	2.42	1.80

Calculated Non-Residential Charges for City-Wide Services

Service	Mixed Use Charge per Square Metre	Retail Use Charge per Square Metre	I.O.I. Charge per Square Metre
General Government	\$2.88	\$2.88	\$2.88
Fire Services	\$2.43	\$4.85	\$4.33
Public Works	\$2.12	\$4.24	\$3.78
Parking	\$0.12	\$0.12	\$0.12
TOTAL NON-RESIDENTIAL CHARGE	\$7.55	\$12.09	\$11.11

City-Wide Hard Non-Residential Charge	Calculated Charge per net ha
Charge Per Net Hectare	\$220,450

- As illustrated in the next table, the proposed residential charges are higher than the present charge for residential units. The charges displayed below are the combined CWS and CWH charges.

Comparison of City-Wide Residential Charges

Residential Unit Type	Current Residential Charge	Calculated Residential Charge	Difference in Charge	
Single/Semi-Detached	\$19,626	\$22,357	\$2,731	13.9%
Townhouses	\$15,424	\$17,344	\$1,920	12.4%
Large Apartments	\$12,138	\$14,672	\$2,534	20.9%
Small Apartments	\$7,292	\$10,913	\$3,621	49.7%

- The residential charges increase by varying amounts. The increase ranges from 12.4 per cent for Townhouses to 49.7 per cent for small apartments.

Comparison of City-Wide Non-Residential Charges

Non-Residential Sector	Current Charge Per Sq.M.	Calculated Charge Per Sq.M.	Difference in Charge	
Mixed Use	\$5.92	\$7.55	\$1.63	27.5%
Retail Use	\$9.39	\$12.09	\$2.70	28.8%
Industrial/Business Office/Institutional	\$8.64	\$11.11	\$2.47	28.6%

City-Wide Hard	Current Charge Per Net Ha	Calculated Charge Per Net Ha	Difference in Charge	
Charge Per Net Hectare	\$191,243	\$220,450	\$29,207	15.3%

- The soft services portion of the charge for the varying non-residential sectors increases by roughly 28 per cent over present rates.
- The calculated non-residential CWH charge also increases by 15 per cent.

I. A PORTION OF DEVELOPMENT-RELATED COSTS REQUIRE FUNDING FROM NON-DEVELOPMENT CHARGE SOURCES

- The *Development Charges Act, 1997* requires that the growth-related net capital costs for “soft” services be reduced by 10 per cent in calculating the applicable development charge for these services. The 10 per cent share of growth-related net capital costs not included in the development charge calculation must be funded from non-development charge sources.
- In total, nearly \$42.4 million is identified to provide for the required 10 per cent reduction.
- Non-development charge funding for replacement or benefit to existing shares of the capital forecast of the CWH program will total an additional \$70.4 million.

- Another portion of the program, deemed to benefit development beyond the 10-year planning period for soft services, will require funding from non-DC sources in the interim. The post-period benefit shares relating to the soft services capital program amounts to \$164.5 million.
- It is estimated also that net operating costs will increase by about \$13.2 million by the year 2022 as the facilities and infrastructure embodied in the capital forecast are operated and maintained.

J. 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 #	\$ / Net Hectare
Yonge Steeles Corridor	1B	\$1,131,819
Woodbine/404	4	\$150,174
Armadale	5	\$9,855
Armadale NE	7	\$11,658
Milliken	8	\$154,577
PD 1-7	9	\$681,288
Rodick/Miller Road Planning District	17	\$220,363
Buttonville Airport	18	\$611,580
Mount Joy	23	\$47,705
Markham Centre - South Unionville - Helen Ave	42A.1	\$1,663,067
Markham Centre	42B	\$6,769
Markham Centre - Clegg	42B.2	\$92,779
Markham Centre - Hotel	42B.4	\$884,900
Markham Centre - South Hwy 7	42B.6	\$1,043,845
Markham Centre - Sciberras	42B.8	\$293,764
Markham Centre - East Precinct	42B.9	\$3,079,743
Wismer	45A	\$9,688
Cathedral	46	\$23,776
York Downs	47B	\$24,629
404 North	49	\$42,565

- Staff has reviewed areas where additional infrastructure requirements are anticipated, however, no by-laws will be enacted at this point in time as the servicing requirements are not yet finalized. These areas include, but are not limited to:
 - Whitebelt (Area 50);
 - Langstaff (Area 2);
 - Yonge North Corridor – Royal Orchard (Area 1A);
 - Markville (Area 19); and
 - Cornell Provincial Lands (Area 41).

- Additionally, there are some areas where the developer has agreed to complete the required infrastructure, thereby negating the requirement for an ASDC By-law. These are:
 - Cornell (Area 41);
 - Armadale East/Parkview (Area 16); and
 - Commerce Valley/Galleria (Area 48).

K. MODIFICATIONS TO THE CITY'S DEVELOPMENT CHARGES BY-LAW AND LOCAL SERVICE DEFINITIONS ARE PROPOSED

- The City is proposing to modify a few provisions of the development charges by-law. The proposed draft by-laws are available, under separate cover, and all the by-law provisions are provided in the draft.

I 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 by-laws 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 10 year 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; 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 non-residential development which is expected to occur within the City over the 2013–2022 period and to 2031 (ultimate development).

Section IV summarizes the historic 10-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 a comparison of existing development charge rates in the City with the rates proposed in this study.

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

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

II 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 with an area-specific approach for certain hard services.

A. 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 flexibility to define services that will be included in the development charge by-laws, provided that the other provisions of the Act and its 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.

1. 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;
- Parking; 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*; and equipment.

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

2. 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 4 – Woodbine/404
- Area 5 – Armadale
- Area 7 – Armadale NE
- Area 8 – Milliken
- Area 9 – PD 1-7
- Area 17 – Rodick/Miller Road Planning District
- Area 18 – Buttonville Airport
- 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 45A – Wismer
- Area 46 – Cathedral
- Area 47B – York Downs
- Area 49 – 404 North

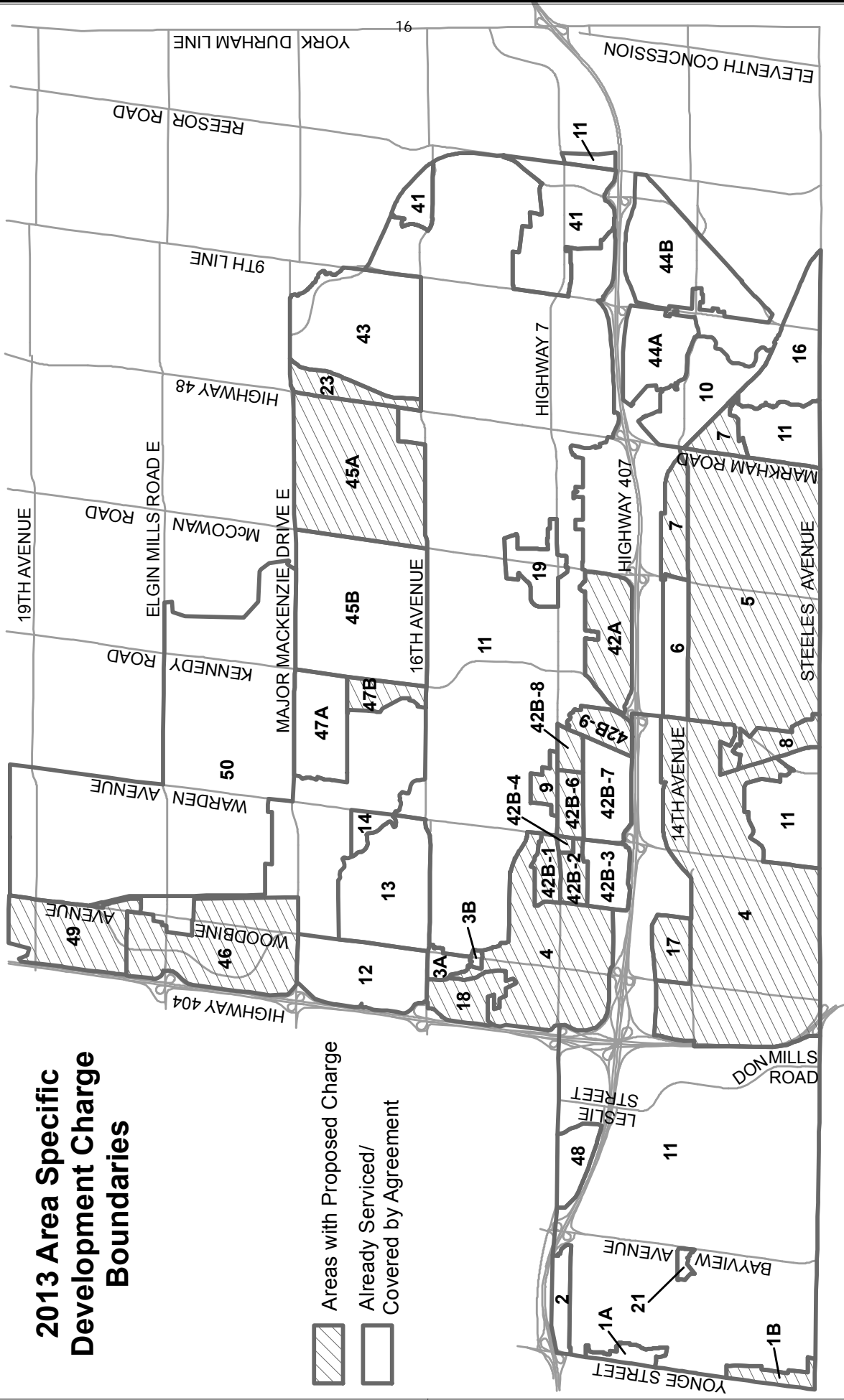
For other areas, development plans are not sufficiently known to be able to provide appropriate servicing plans and development charges. Area-specific development charges for these areas may be prepared by the City in the future as development plans become more advanced. There are some other areas in which the ASDC work will be completed by the developers in which a letter of agreement would be required by the City. And finally, there are other areas in which ASDCs will likely be passed in June 2013 due to pending development, but may need to be subsequently revised.

B. 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 as follows.

2013 Area Specific Development Charge Boundaries

-  Areas with Proposed Charge
-  Already Served/
Covered by Agreement



1. Development Forecast

The first step in the methodology requires a development forecast to be prepared for the 10 year study period, 2013–2022, for City-wide soft services and for development to ultimate development (2031) for the hard 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 approved York Region Official Plan designated urban areas. The forecast reflects York Region Official Plan targets, 2011 Census data and 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 10 year 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 10 year period, 2013–2022, and to 2031. The forecast provides estimates for five categories: retail, institutional, work at home, employment land, and major office. 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.

2. Service Categories and Historic 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.)

Historic 10-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 10-year historic 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 historic service levels used in this study have been calculated based on the period 2003–2012.

In this DC 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, and Park Development and Facilities), the service level measure of population + households has been utilized. For those services which levy both a residential and non-residential charge, the service level measure of employment + households has been utilized. Introducing households into the calculation of the historic service levels and the determination of the maximum permissible DC funding envelopes recognizes the importance of facilities in proximity to existing and future development. The importance of proximity, and reasonable access, ties together with the notion of developing complete communities.

Existing households and household growth are being used as a proxy for the amount and location of developed land. This approach is consistent with the way in which the City of Markham plans for each of its communities and provides infrastructure and facilities to meet the servicing needs and demands arising from development.

For “hard” services, such as water, wastewater, storm drainage and roads (and road-related works), historic service levels are less applicable and reference is made to the City’s engineering standards as well as Provincial health and environmental requirements.

3. 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 historic 10-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.

There is also a requirement in the *DCA* to reduce the applicable development charge by the amount of any “uncommitted excess capacity” that is available for a service. Such capacity is available to partially meet the future servicing requirements. Adjustments are made in the analysis to meet this requirement of the *Act*.

Finally, in calculating development charges, the growth-related net capital costs must be reduced by 10 per cent for all services except water, wastewater, storm drainage, services related to highways and fire (*DCA*, s. 5. (1) 8.). The 10 per cent discount is applied to the other services, e.g. indoor recreation, libraries, parks, and the resulting City funding responsibility from non-development charge sources is identified.

4. 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).

Finally, 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.

5. 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*.

III POPULATION IS FORECAST TO INCREASE BY 54,200 AND NON-RESIDENTIAL BUILDING SPACE BY 2.6 MILLION SQUARE METRES BY 2022

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 contained in the Region of York's Regional Official Plan. The Official Plan 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 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. Table 1 provides a summary of the residential forecast for two planning periods: a 10 year planning period, 2013–2022, and 2013–ultimate development. As noted in Section II, for development charges calculation purposes, the 10 year planning period is applicable to non-engineering services. The ultimate development forecast has been utilized in the calculation of the City-wide Hard component of development charges and in the Area Specific Development Charges calculations.

**Table 1
Summary of Residential Development Charges Forecast**

	2012 Estimate	Soft Services Planning Period 2013 - 2022		Hard Services Planning Period 2013 - 2031	
		Growth	Total at 2022	Growth	Total at 2031
Residential					
Total Occupied Dwellings	93,016	24,596	117,612	45,444	138,460
- Singles & Semis		8,156		13,079	
- Rows & Other Multiples		4,682		9,183	
- Apartments		11,759		23,182	
Total Population					
Census	305,713	54,204	359,917	98,240	403,953
Population In New Dwellings		67,212		121,306	

The City's population is expected to increase by about 18 per cent over the next 10 years reaching about 360,000 by 2022. The ultimate population is forecast to reach nearly 404,000.

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 67,200 people over the 10-year planning period and 121,300 people to ultimate development.

About 24,600 housing units are forecast to be developed between 2013 and 2022. The composition of the new units is forecast to be 33 per cent singles/semis, 19 per cent rows and other multiples, and 48 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.

Non-residential space is forecast according to five categories: retail, institutional, work at home, employment land, and major office. Population related employment includes traditional retail forms, such as regional centres, district centres,

neighbourhood convenience, highway commercial, big box and power centres occupied by retail and local service uses. Population related employment also includes institutional space consisting of all community institutional uses such as schools, places of worship and hospitals. Major office employment is defined as that working in free-standing office buildings of 20,000 square feet or greater. Employment land employment consists of buildings in Markham’s “industrial” areas and may include some non-traditional retail space and office space associated with industrial or storage uses.

Table 2 provides a summary of the employment forecast for the 2013–2022 period and to ultimate development. Over the next 10 years, employment is projected to grow by 57,300 employees, an increase of 34 per cent from the City’s current employment base. Beyond 2022 to ultimate development, a further 74,300 employees are forecast to be added.

Table 2
Summary of Non-Residential Development Forecast

	2012 Estimate	Soft Services Planning Period 2013 - 2022		Hard Services Planning Period 2013 - 2031	
		Growth	Total at 2022	Growth	Total at 2031
Non-Residential					
Employment	166,125	57,283	223,408	74,288	240,413
- Retail		5,140		5,840	
- Institutional		1,727		1,987	
- Work at Home		6,088		9,895	
- Employment Land		20,444		25,487	
- Major Office		23,884		31,075	
Non-Residential Building Space (sq.m.)		2,553,322		3,181,833	
- Retail		205,600		233,600	
- Institutional		115,118		132,435	
- Work at Home		-		-	
- Employment Land		1,635,504		2,038,928	
- Major Office		597,100		776,870	

The table also shows that about 2.55 million square metres of GFA is forecast to come on-stream over the next decade. During the longer-term planning period to ultimate development it is forecast that 3.18 million square metres of GFA will be added.

The major share of space (1.64 million square metres or about 64 per cent) that is forecast to be added over the next 10 years is anticipated in the employment land category. The next single largest category is forecast to be major office employment space at about 597,100 square metres (approximately 23 per cent of the total). Overall population-related space represents the remaining 320,700 square metres or 13 per cent. No floor space is associated with work-at-home employment.

IV SUMMARY OF HISTORIC CAPITAL SERVICE LEVELS

The *DCA* and *Ontario Regulation 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 10-year period immediately preceding the preparation of the background study, on a service by service basis.

For non-engineering services (fire, library, indoor recreation etc.) the legislative requirement is met by documenting historic service levels for the preceding 10 years, in this case, for the period 2003 to 2012. Service levels have been measured as a ratio of inputs per capita and household (or per employment and household). With City-wide hard services such as roads, engineering and legislated environmental and health standards are used in lieu of inputs per capita.

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 \$/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 2012.

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 2003 - 2012
FOR SOFT SERVICES

Service	2003 - 2012 Service Level Indicator
1.0 LIBRARY	\$263.79 per capita & household
Buildings	\$116.12 per capita & household
Land	\$74.58 per capita & household
Materials	\$54.49 per capita & household
Fixtures, Furniture & Equipment	\$18.60 per capita & household
2.0 FIRE SERVICES	\$275.03 per employment & household
Buildings	\$110.96 per employment & household
Land	\$75.44 per employment & household
Furniture & Equipment	\$40.09 per employment & household
Vehicles	\$48.54 per employment & household
3.0 INDOOR RECREATION	\$1,248.88 per capita & household
Buildings	\$748.72 per capita & household
Land	\$484.29 per capita & household
Furniture & Equipment	\$15.87 per capita & household
4.0 PARK DEVELOPMENT & FACILITIES	\$859.23 per capita & household
Sports Fields	\$224.29 per capita & household
Parks Buildings	\$76.80 per capita & household
Developed Parkland	\$500.14 per capita & household
Bridges, Etc.	\$58.00 per capita & household
5.0 PUBLIC WORKS	\$237.32 per employment & household
Buildings	\$43.96 per employment & household
Land	\$38.90 per employment & household
Furniture & Equipment	\$3.89 per employment & household
Fleet & Equipment	\$150.57 per employment & household
6.0 PARKING	\$12.93 per employment & household
On Street Parking	\$10.60 per employment & household
Off Street Parking	\$0.55 per employment & household
Land	\$1.78 per employment & household

V 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, developed a growth-related capital forecast setting out those projects that are required to service anticipated growth. For all services except City-wide soft services, the capital plan covers the 10 year period from 2013 to 2022. As permitted by the DCA, s. 5 (1) 4., the development charge for City-wide Hard services is based on ultimate development expected in the City (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 growth-related 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.

TABLE 4
CITY OF MARKHAM
SUMMARY OF DEVELOPMENT-RELATED CAPITAL FORECAST
FOR SOFT SERVICES 2013 - 2022
(in \$000)

Service	Gross Cost	Grants/ Subsidies	Municipal Cost	Total Net Capital Program										
				2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
1.0 GENERAL GOVERNMENT	\$20,782.4	\$0.0	\$20,782.4	\$7,683.4	\$1,455.5	\$1,455.5	\$1,455.5	\$1,455.5	\$1,455.5	\$1,455.5	\$1,455.5	\$1,455.5	\$1,455.5	\$1,455.5
1.1 Recovery of Negative Reserve Fund Balance	\$6,227.9	\$0.0	\$6,227.9	\$6,227.9	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
1.2 Development-Related Studies	\$14,554.5	\$0.0	\$14,554.5	\$1,455.5	\$1,455.5	\$1,455.5	\$1,455.5	\$1,455.5	\$1,455.5	\$1,455.5	\$1,455.5	\$1,455.5	\$1,455.5	\$1,455.5
2.0 LIBRARY	\$25,589.6	\$0.0	\$25,589.6	\$3,129.6	\$14,858.8	\$0.0	\$7,601.1	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
2.1 Recovery of Negative Reserve Fund Balance	\$3,129.6	\$0.0	\$3,129.6	\$3,129.6	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
2.2 Buildings, Land & Furnishings	\$14,905.8	\$0.0	\$14,905.8	\$0.0	\$9,705.8	\$0.0	\$5,200.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
2.3 Library Land	\$867.8	\$0.0	\$867.8	\$0.0	\$867.8	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
2.4 Library Furniture & Equipment	\$1,715.8	\$0.0	\$1,715.8	\$0.0	\$1,294.2	\$0.0	\$421.6	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
2.5 Library Collection Materials	\$4,970.6	\$0.0	\$4,970.6	\$0.0	\$2,991.0	\$0.0	\$1,979.5	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3.0 FIRE SERVICES	\$23,188.5	\$0.0	\$23,188.5	\$3,665.8	\$4,324.3	\$75.0	\$10,228.9	\$4,894.5	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3.1 Recovery of Negative Reserve Fund Balance	\$2,440.8	\$0.0	\$2,440.8	\$2,440.8	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3.2 Fire Buildings	\$12,600.0	\$0.0	\$12,600.0	\$0.0	\$0.0	\$0.0	\$9,000.0	\$3,600.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3.3 Land for Fire Buildings	\$5,040.0	\$0.0	\$5,040.0	\$0.0	\$4,200.0	\$0.0	\$840.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3.4 Furniture and Equipment	\$777.8	\$0.0	\$777.8	\$0.0	\$0.0	\$0.0	\$388.9	\$388.9	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3.5 Firefighter Equipment	\$254.9	\$0.0	\$254.9	\$0.0	\$124.3	\$0.0	\$0.0	\$130.6	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3.6 Fire Vehicles	\$2,075.0	\$0.0	\$2,075.0	\$1,225.0	\$0.0	\$75.0	\$0.0	\$775.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
4.0 INDOOR RECREATION	\$151,469.2	\$31,924.8	\$119,544.4	\$59,612.2	\$59,932.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
4.1 Recovery of Negative Reserve Fund Balance	\$2,520.0	\$0.0	\$2,520.0	\$2,520.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
4.2 Major Facilities	\$127,531.1	\$31,924.8	\$95,606.3	\$46,592.1	\$49,014.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
4.3 Land for Major Facilities	\$14,882.2	\$0.0	\$14,882.2	\$10,500.0	\$4,382.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
4.4 Furniture & Equipment	\$6,535.8	\$0.0	\$6,535.8	\$0.0	\$6,535.8	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
5.0 PARK DEVELOPMENT & FACILITIES	\$269,032.2	\$0.0	\$269,032.2	\$97,090.9	\$34,436.6	\$20,575.5	\$21,795.6	\$7,214.4	\$19,527.2	\$22,870.3	\$21,224.7	\$17,161.9	\$7,135.1	
6.0 PUBLIC WORKS	\$33,608.7	\$0.0	\$33,608.7	\$9,625.3	\$11,129.1	\$1,911.4	\$8,974.2	\$108.9	\$379.1	\$382.0	\$375.6	\$344.0	\$379.1	
6.1 Public Works Buildings	\$20,336.3	\$0.0	\$20,336.3	\$0.0	\$10,006.3	\$1,730.0	\$8,600.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	
6.2 Land for Public Works Buildings	\$9,375.0	\$0.0	\$9,375.0	\$9,375.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	
6.3 Furniture and Equipment	\$259.6	\$0.0	\$259.6	\$0.0	\$259.6	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	
6.4 Fleet	\$3,637.9	\$0.0	\$3,637.9	\$250.3	\$863.3	\$181.4	\$374.2	\$108.9	\$379.1	\$382.0	\$375.6	\$344.0	\$379.1	
7.0 PARKING	\$694.7	\$0.0	\$694.7	\$0.0	\$20.0	\$0.0	\$237.5	\$0.0	\$199.8	\$0.0	\$237.5	\$0.0	\$0.0	
7.1 Parking Studies	\$694.7	\$0.0	\$694.7	\$0.0	\$20.0	\$0.0	\$237.5	\$0.0	\$199.8	\$0.0	\$237.5	\$0.0	\$0.0	
TOTAL - 10 YEAR SOFT SERVICES	\$524,365.3	\$31,924.8	\$492,440.5	\$180,807.1	\$126,156.5	\$24,017.3	\$50,292.7	\$13,673.2	\$21,561.6	\$24,707.8	\$23,293.3	\$18,961.4	\$8,969.7	



The development-related capital forecast for 10-year soft services estimates a total gross cost of \$524.4 million. It is expected that \$31.9 million in senior government grants will be received by the City to fund the Pan Am Games facility. This amount is netted off of the total gross cost of the forecast, leaving \$492.4 million as the net municipal cost to the City.

This capital forecast incorporates those projects identified to be related to development anticipated in the next 10 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 2013 (for which development charge reserve fund balances exist), or for growth anticipated to occur beyond the 2013–2022 planning period. In addition, the amounts shown on Table 4 have not been reduced by 10 per cent for various “soft” services as mandated by s. 5 (1) 8. of the *DCA*.

Of the \$492.4 million in 10-year net development-related capital costs for soft services, \$269.0 million (55 per cent) is related to the provision of Park Development & Facilities. A variety of playing fields, tennis courts, bocce courts, wading pools, playground equipment, basketball and other play courts are included in the capital program. This service category also provides for the development of various neighbourhood, district and regional parks across the City.

The next largest growth-related capital component is for Indoor Recreation at \$119.5 million (24 per cent). The capital program includes the addition of two new community centres.

Together, these indoor and outdoor recreation services total \$388.5 million or about 80 per cent of the development-related net capital cost for the services calculated on a ten year time frame.

An extensive growth-related capital servicing plan is forecast for Public Works Buildings and Fleet at \$33.6 million (7 per cent). A new public works facility is included for development in the 10-year capital program, and also expansions to the current Works Yard. The program also includes new additions to the City’s fleet and equipment inventory.

The net growth-related capital forecast for the Library service totals about \$25.6 million. The program includes the addition of one new library as well as an expansion to an existing library branch. The capital forecast also includes land and furniture for the new facilities and additions to library collections.

Fire Services' \$23.2 million capital program provides for the two new fire stations, including associated land, and furniture and equipment. New vehicles and equipment for additional firefighters are also included.

General Government (growth studies) is included at \$20.8 million. A new service, Parking, has a modest capital forecast of \$694,700.

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 \$969.9 million. 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 \$160.0 million. A further \$70.4 million has been identified as a non-growth or benefit to existing share; these costs will be recovered from other municipal funding sources. The remaining capital cost of \$739.5 million is deemed development-related and recoverable from development charges.

Of the total \$739.5 million, about \$593.3 million is identified as development-related and forms the basis for the City-wide hard services development charges calculation. The remaining share of \$146.2 million will be funded through portions of the projects that are allocated to the area-specific development charges proposed in this study.

TABLE 5

CITY OF MARKHAM
 SUMMARY OF DEVELOPMENT-RELATED CAPITAL FORECAST
 FOR CITY-WIDE HARD SERVICES 2013-2031

Service	Total Gross Cost	Non-Development Charge		Area Specific & Other Development Charges Recovery	City-Wide Development Charge Recoverable
		Local Costs	Non-Growth (Benefit to Existing)		
ILLUMINATION	\$ 20,342,819	\$ -	\$ 2,807,825	\$ 3,234	\$ 17,531,760
INTERSECTION	\$ 23,473,902	\$ -	\$ 4,264,174	\$ 1,487,131	\$ 17,722,597
ROADS	\$ 249,544,918	\$ 88,207,313	\$ 5,375,958	\$ 27,654,722	\$ 128,306,925
PROPERTIES ACQUISITION	\$ 105,736,678	\$ 18,471,721	\$ 2,143,387	\$ 12,738,490	\$ 72,383,079
SIDEWALKS	\$ 20,754,481	\$ -	\$ 3,208,889	\$ -	\$ 17,545,592
STORM WATER MANAGEMENT	\$ 49,675,894	\$ 9,248,194	\$ 11,573,084	\$ 13,916,090	\$ 14,938,526
STRUCTURES	\$ 379,152,989	\$ 41,744,653	\$ 807,148	\$ 72,403,324	\$ 264,197,865
STUDIES	\$ 9,762,000	\$ -	\$ -	\$ -	\$ 9,762,000
WATER	\$ 23,332,025	\$ -	\$ 2,503,726	\$ 13,238,286	\$ 7,590,013
SPECIAL PROJECTS	\$ 76,910,344	\$ 2,317,558	\$ 37,730,490	\$ -	\$ 36,862,296
CREDIT AGREEMENT PROJECTS	\$ 11,226,877	\$ -	\$ -	\$ 4,808,284	\$ 6,418,593
TOTAL	\$ 969,912,927	\$ 159,989,439	\$ 70,414,681	\$ 146,249,561	\$ 593,259,246

Nearly 40 per cent of the capital program relates to the provision of structures — \$379.2 million, and roads — \$249.5 million, or 26 per cent. Properties acquisition (\$105.7 million) accounts for approximately 11 per cent of the capital program.

The balance of the gross capital cost capital program is for special project (largely streetscaping) for \$76.9 million, illumination (\$20.3 million), intersections (\$23.4 million), sidewalks (\$20.7 million), storm water management (\$49.7 million), studies (\$9.8 million), water projects (\$23.3 million), and a variety of types of projects undertaken under credit agreements (\$11.2 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, and the recovery of the cost of these projects is 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 non-growth 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.

Of all the projects included in Appendix D, \$132.1 million is identified as area-specific growth-related. However, not all of these costs are being 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. In total, the ASDC recoverable is \$132.7 million, and this amount forms the basis for the area-specific development charges calculations.

TABLE 6

**CITY OF MARKHAM
SUMMARY OF DEVELOPMENT-RELATED CAPITAL FORECAST
FOR AREA-SPECIFIC SERVICES 2013-2031**

Area	Growth-Related Costs	Adjustments			Total ASDC Recoverable
		Reserve Fund Balance	Credits in Agreement	Projects Funded From Reserve	
Yonge Steeles Corridor	1B \$10,265,598	\$0	\$0	\$0	\$10,265,598
Woodbine/404	4 \$10,905,801	(\$868,650)	\$0	\$0	\$10,037,152
Armadales	5 \$1,213,831	(\$532,853)	(\$293,988)	\$0	\$386,990
Armadales NE	7 \$521,486	(\$53,019)	\$0	\$0	\$468,467
Milliken	8 \$3,461,749	(\$1,166,441)	\$0	\$0	\$2,295,308
PD 1-7	9 \$8,150,599	\$1,022,771	\$0	\$0	\$9,173,370
Rodick/Miller Road Planning District	17 \$6,227,196	\$224,870	\$0	\$0	\$6,452,066
Buttonville Airport	18 \$34,676,605	\$0	\$0	\$0	\$34,676,605
Mount Joy	23 \$975,097	\$0	\$0	\$0	\$975,097
Markham Centre - South Unionville - Helen Ave	42A.1 \$2,786,700	(\$365,466)	(\$1,290,436)	(\$68,098)	\$1,062,700
Markham Centre	42B \$819,466	(\$53,782)	\$0	\$0	\$765,684
Markham Centre - Clegg	42B.2 \$504,473	\$153,646	\$0	\$0	\$658,119
Markham Centre - Hotel	42B.4 \$424,385	\$18,065	\$0	\$0	\$442,450
Markham Centre - South Hwy 7	42B.6 \$8,748,646	\$1,128,921	(\$660,418)	\$0	\$9,217,149
Markham Centre - Sciberras	42B.8 \$4,679,589	\$293,457	\$0	\$0	\$4,973,045
Markham Centre - East Precinct	42B.9 \$33,133,104	\$5,415,859	\$0	(\$2,777,753)	\$35,771,210
Wismer	45A \$920,663	(\$601,625)	(\$14,259)	\$0	\$304,779
Cathedral	46 \$1,145,013	\$632,593	(\$274,734)	\$0	\$1,502,872
York Downs	47B \$502,681	(\$53,973)	\$0	\$0	\$448,708
404 North	49 \$2,078,541	\$747,477	\$0	\$0	\$2,826,018
Total	\$132,141,223	\$5,941,851	(\$2,533,835)	(\$2,845,851)	\$132,703,387

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VI 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 net hectare (non-residential) 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 City-wide soft 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. In 2009, City Council adopted a DC By-law which levies the CWS non-residential charge on a differential basis for different types of non-residential land uses and building types. The City will continue this practice and levy the CWS non-residential charge based on three rates – Industrial/Office/Institutional, Mixed-use, and non-mixed use retail.

For the 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 development charges rates are calculated and levied on a per net hectare basis. For area-specific, the development charges rates are 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.

1. Soft 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 \$60.2 million has been identified as available DC reserves and represents the revenues collected from previous development charges. This portion has been netted out of the chargeable capital costs. Another share of the forecast, \$164.5 million, is attributable to development beyond the 2022 period (and may therefore be recovered under future development charge studies).

The DCA, s. 5 (1) 8 requires that growth-related net capital costs for “soft” services be reduced by 10 per cent in calculating the applicable development charge. The discount does not apply to the Fire and Public Works. The 10 per cent share of development-related net capital costs not included in the development charge calculations must be funded from non-development charge sources. In total, about \$42.4 million is identified as the required 10 per cent reduction.

The discounted net growth-related capital cost for soft services is \$225.3 million. This amount is allocated between the residential and non-residential sectors to derive the unadjusted development charges. Library, Indoor Recreation and Park Development services are all deemed to benefit residential development only, while the General Government, Fire, Public Works, and Parking services are allocated between both sectors based on shares of population and employment growth (see appendix B for details). Approximately \$199.1 million of the soft services development charges net discounted capital program is deemed to benefit residential development. When this amount is divided by the ten year population growth in new units (67,212) an unadjusted charge of \$2,961.61 per capita is derived. The non-residential share of the soft services capital program totals \$26.3 million and when this amount is divided by the ten year forecast of non-residential space growth (2,553,322 sq. m) an unadjusted charge of \$10.29 per square metre is derived.

TABLE 7

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	67,212
10 Year Growth in Square Feet	2,553,322

Service	Development-Related Capital Program (2013 - 2022)							Total DC Eligible Costs for Recovery (\$000)	Residential Share		Non-Residential Share	
	Net Municipal Cost (\$000)	Replacement & Benefit to Existing (\$000)	Required Service Discount (\$000)	Available DC Reserves (\$000)	Post-2022 Benefit (\$000)	%	(\$000)		%	(\$000)	%	(\$000)
1.0 GENERAL GOVERNMENT												
Unadjusted Development Charge Per Capita	\$20,782.4	\$0.0	\$1,455.5	\$0.0	\$4,772.5	\$14,554.5	\$14,554.5	54%	\$7,857.7	46%	\$6,696.85	
Unadjusted Development Charge Per Sq.M									\$116.91		\$2.62	
2.0 LIBRARY												
Unadjusted Development Charge Per Capita	\$25,589.6	\$0.0	\$2,246.0	\$0.0	\$4,634.3	\$18,709.3	\$18,709.3	100%	\$18,709.3	0%	\$0.00	
Unadjusted Development Charge Per Sq.M									\$278.36		\$0.00	
3.0 FIRE SERVICES												
Unadjusted Development Charge Per Capita	\$23,188.5	\$0.0	\$0.0	\$0.0	\$669.4	\$22,519.0	\$22,519.0	54%	\$12,157.5	46%	\$10,361.50	
Unadjusted Development Charge Per Sq.M									\$180.88		\$4.06	
4.0 INDOOR RECREATION												
Unadjusted Development Charge Per Capita	\$119,544.4	\$0.0	\$11,702.4	\$0.0	\$19,274.0	\$88,567.9	\$88,567.9	100%	\$88,567.9	0%	\$0.00	
Unadjusted Development Charge Per Sq.M									\$1,317.74		\$0.00	
5.0 PARK DEVELOPMENT & FACILITIES												
Unadjusted Development Charge Per Capita	\$269,032.2	\$0.0	\$26,903.2	\$47,714.8	\$133,478.6	\$60,935.5	\$60,935.5	100%	\$60,935.5	0%	\$0.00	
Unadjusted Development Charge Per Sq.M									\$906.62		\$0.00	
6.0 PUBLIC WORKS												
Unadjusted Development Charge Per Capita	\$33,608.7	\$0.0	\$0.0	\$12,534.4	\$1,642.9	\$19,431.4	\$19,431.4	54%	\$10,490.6	46%	\$8,940.81	
Unadjusted Development Charge Per Sq.M									\$156.08		\$3.50	
7.0 PARKING												
Unadjusted Development Charge Per Capita	\$694.7	\$0.0	\$69.5	\$0.0	\$0.0	\$625.2	\$625.2	54%	\$337.5	46%	\$287.68	
Unadjusted Development Charge Per Sq.M									\$5.02		\$0.11	
TOTAL 10-YEAR SOFT SERVICES	\$492,440.5	\$0.0	\$42,376.6	\$60,249.2	\$164,471.8	\$225,342.9	\$225,342.9		\$199,056.0		\$26,286.8	
Unadjusted Development Charge Per Capita									\$2,961.61		\$10.29	
Unadjusted Development Charge Per Sq.M												

2. City-Wide Hard Services

City-wide hard services include illumination, intersections, roads, properties acquisition, sidewalks, storm water management, structures, studies, water, special projects (mainly streetscaping), and credit agreement projects. The total gross capital cost estimated for City-wide hard services is \$969.9 million (see Table 8). This infrastructure will be used to service the ultimate development of the lands within the City's currently designated urban areas. This development is expected to occur to 2031.

Of the \$969.9 million 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 \$160.0 million. A further \$70.4 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 City-wide hard program will be funded through portions of the projects that are allocated to the area-specific development charges proposed in this study and those shares amount to \$146.2 million.

The City-wide DC recovery share is then netted down to \$593.3 million. However, \$54.9 million is available in the City's existing related development charges reserve accounts, \$2.9 million from credits already paid, and \$27.4 million for projects, or shares of projects, already funded reserves, are all removed from the DC recovery share. Therefore, about \$508.0 million is included in the development charges calculations.

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 ultimate development. On this basis, the allocation to the residential and non-residential sectors is calculated at 62 per cent and 38 per cent respectively. The residential sector's "unadjusted" development charge is calculated at \$2,597.26 per capita. The non-residential sector's share results in an "unadjusted" development charge of \$222,443 per net hectare. These charges are based on population in new units to growth to 2031 of 121,306 and net developable non-residential land area to 2031 of 867 net hectares, respectively.

3. Area-Specific Services

The proposed area-specific development charges are summarized in Table 9. The table shows the development-related net capital cost for area-specific services of \$132.1

TABLE 8

CITY OF MARKHAM
 SUMMARY OF UNADJUSTED RESIDENTIAL AND NON-RESIDENTIAL DEVELOPMENT CHARGES
 CAPITAL PROGRAM FOR CITY-WIDE HARD SERVICES 2013-2031

Service	Total Gross Cost	Non-Development Charge		Area Specific & Other Development Charges Recovery	City-Wide Development Charge Recoverable	Residential Share of TWH Development Charge Recoverable		Non-Residential Share of TWH Development Charge Recoverable	
		Local Costs	Non-Growth (Benefit to Existing)			%	\$	%	\$
ILLUMINATION	\$ 20,342,819	\$ -	\$ 2,807,825	\$ 3,234	\$ 17,531,760	62.0%	\$ 10,873,372	38.0%	\$ 6,658,388
INTERSECTION	\$ 23,473,902	\$ -	\$ 4,264,174	\$ 1,487,131	\$ 17,722,597	62.0%	\$ 10,991,731	38.0%	\$ 6,730,866
ROADS	\$ 249,544,918	\$ 88,207,313	\$ 5,375,958	\$ 27,654,722	\$ 128,306,925	62.0%	\$ 79,577,235	38.0%	\$ 48,729,691
PROPERTIES ACQUISITION	\$ 105,736,678	\$ 18,471,721	\$ 2,143,387	\$ 12,738,490	\$ 72,383,079	62.0%	\$ 44,892,708	38.0%	\$ 27,490,372
SIDEWALKS	\$ 20,754,481	\$ -	\$ 3,208,889	\$ -	\$ 17,545,592	62.0%	\$ 10,881,951	38.0%	\$ 6,663,641
STORM WATER MANAGEMENT	\$ 49,675,894	\$ 9,248,194	\$ 11,573,084	\$ 13,916,090	\$ 14,938,526	62.0%	\$ 9,265,023	38.0%	\$ 5,673,503
STRUCTURES	\$ 379,152,989	\$ 41,744,653	\$ 807,148	\$ 72,403,324	\$ 264,197,865	62.0%	\$ 163,858,150	38.0%	\$ 100,339,715
STUDIES	\$ 9,762,000	\$ -	\$ -	\$ -	\$ 9,762,000	62.0%	\$ 6,054,490	38.0%	\$ 3,707,510
WATER	\$ 23,332,025	\$ -	\$ 2,503,726	\$ 13,238,286	\$ 7,590,013	62.0%	\$ 4,707,402	38.0%	\$ 2,882,611
SPECIAL PROJECTS	\$ 76,910,344	\$ 2,317,558	\$ 37,730,490	\$ -	\$ 36,862,296	62.0%	\$ 22,862,364	38.0%	\$ 13,999,932
CREDIT AGREEMENT PROJECTS	\$ 11,226,877	\$ -	\$ -	\$ 4,808,284	\$ 6,418,593	62.0%	\$ 3,980,876	38.0%	\$ 2,437,718
TOTAL	\$ 969,912,927	\$ 159,989,439	\$ 70,414,681	\$ 146,249,561	\$ 593,259,246		\$ 367,945,302		\$ 225,313,947

Adjustments			
Less Existing Unallocated Reserve Fund Balances			
Less Credit Agreements Paid			
Projects Funded From Reserves			
TOTAL CITY-WIDE HARD DEVELOPMENT CHARGE RECOVERABLE	\$ 507,994,336	\$ 315,063,154	\$ 192,931,185

RESIDENTIAL DEVELOPMENT CHARGE		
Population in New Units 2013 - 2031		121,306
Unadjusted Development Charge Per Capita - Before Cash Flow	\$	2,597.26
NON-RESIDENTIAL DEVELOPMENT CHARGE		
Net Developable Non-Residential Land Area (ha)		867
Unadjusted Development Charge Per Net Hectare - Before Cash Flow	\$	222,443

million. However, nearly \$562,200 of this amount has already been secured by services-in-lieu agreements or is available in the City's existing area-specific reserve funds to offset some of these costs. Therefore, on a collective basis, nearly \$132.7 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 \$6,769 per net hectare (in Markham Centre) to a high of about \$3,079,743 per net hectare for Markham Centre – East Precinct. Nevertheless, as shown in the Table, 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.

It is noted that a number of areas where additional infrastructure requirements are anticipated, but no by-laws will be enacted at this point in time as the servicing requirements are not yet finalized.

It is also noted that no ASDCs have been calculated for a few areas as the work will be completed by developers and the City will receive a letter of agreement for the completion of these works. And finally, there are some areas in which an ASDC by-law will be passed due to pending development, but may need to be subsequently revised.

4. Adjusted Rates for City-Wide Residential Development Charges

Final adjustments to the “unadjusted” development charge rates summarized above 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.

Table 10 summarize the results of the adjustment for the residential and non-residential components of the City-wide rates respectively. As shown on Table 10, the adjusted per capita rate for City-wide services increases from the unadjusted rate of \$5,570.72 to \$6,063.15 after the cash flow analysis.

TABLE 9
CITY OF MARKHAM
SUMMARY OF AREA-SPECIFIC DEVELOPMENT CHARGES
FOR AREA-SPECIFIC SERVICES 2013-2031

Area	Area #	Growth-Related Costs	Adjustments			Total ASDC Recoverable	Land Area (Ha)	ASDC Charge \$/ha
			Reserve Fund Balance	Credits in Agreement	Projects Funded From Reserve			
Yonge Steeles Corridor	1B	\$10,265,598	\$0	\$0	\$0	\$10,265,598	9.070	\$1,131,819
Woodbine/404	4	\$10,905,801	(\$868,650)	\$0	\$0	\$10,037,152	66.837	\$150,174
Armadae	5	\$1,213,831	(\$532,853)	(\$293,988)	\$0	\$386,990	39.270	\$9,855
Armadae NE	7	\$521,486	(\$53,019)	\$0	\$0	\$468,467	40.184	\$11,658
Milliken	8	\$3,461,749	(\$1,166,441)	\$0	\$0	\$2,295,308	14.849	\$154,577
PD 1-7	9	\$8,150,599	\$1,022,771	\$0	\$0	\$9,173,370	13.465	\$681,288
Rodick/Miller Road Planning District	17	\$6,227,196	\$224,870	\$0	\$0	\$6,452,066	29.279	\$220,363
Buttonville Airport	18	\$34,676,605	\$0	\$0	\$0	\$34,676,605	56.700	\$611,580
Mount Joy	23	\$975,097	\$0	\$0	\$0	\$975,097	20.440	\$47,705
Markham Centre - South Unionville - Helen Ave	42A.1	\$2,786,700	(\$365,466)	(\$1,290,436)	(\$68,098)	\$1,062,700	0.639	\$1,663,067
Markham Centre	42B	\$819,466	(\$53,782)	\$0	\$0	\$765,684	113.113	\$6,769
Markham Centre - Clegg	42B.2	\$504,473	\$153,646	\$0	\$0	\$658,119	7.093	\$92,779
Markham Centre - Hotel	42B.4	\$424,385	\$18,065	\$0	\$0	\$442,450	0.500	\$884,900
Markham Centre - South Hwy 7	42B.6	\$8,748,646	\$1,128,921	(\$660,418)	\$0	\$9,217,149	8.830	\$1,043,845
Markham Centre - Sciberras	42B.8	\$4,679,589	\$293,457	\$0	\$0	\$4,973,045	16.929	\$293,764
Markham Centre - East Precinct	42B.9	\$33,133,104	\$5,415,859	\$0	(\$2,777,753)	\$35,771,210	11.615	\$3,079,743
Wismer	45A	\$920,663	(\$601,625)	(\$14,259)	\$0	\$304,779	31.461	\$9,688
Cathedral	46	\$1,145,013	\$632,593	(\$274,734)	\$0	\$1,502,872	63.210	\$23,776
York Downs	47B	\$502,681	(\$53,973)	\$0	\$0	\$448,708	18.219	\$24,629
404 North	49	\$2,078,541	\$747,477	\$0	\$0	\$2,826,018	66.393	\$42,565
Total		\$132,141,223	\$5,941,851	(\$2,533,835)	(\$2,845,851)	\$132,703,387		

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B. PROPOSED CITY-WIDE RESIDENTIAL AND NON-RESIDENTIAL DEVELOPMENT CHARGES

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 in the Table, the proposed residential charge for City-wide services ranges from \$10,913 for small apartments to \$22,357 for single detached and semi-detached units. The proposed charge for townhouses (and other multiple units) is \$17,344 and \$14,672 for large apartments.

The proposed adjusted non-residential development charge for City-wide services is shown on Table 11. The City-wide soft services are differentiated by three land use types and the charges vary from a mixed use charge of \$7.55 per square metre, retail use at \$12.09 per square metre, and Industrial/Office/Institutional at \$11.11 per square metre. The adjusted calculated non-residential charge for City-wide hard services is also shown on this table and is \$220,450 per net hectare.

TABLE 10
CITY OF MARKHAM
SUMMARY OF CITY-WIDE DEVELOPMENT CHARGES
RESIDENTIAL DEVELOPMENT CHARGES BY UNIT TYPE

Service	Unadjusted Charge Per Capita	Adjusted Charge Per Capita	Residential Charge By Unit Type (1)			
			Singles & Semis	Townhouses & Multiples	Large Apartments	Small Apartments
General Government	\$116.91	\$127.45	\$470	\$365	\$308	\$229
Library	\$278.36	\$308.45	\$1,137	\$882	\$746	\$555
Fire Services	\$180.88	\$192.22	\$709	\$550	\$465	\$346
Indoor Recreation	\$1,317.74	\$1,495.19	\$5,513	\$4,277	\$3,618	\$2,691
Park Development & Facilities	\$906.62	\$1,030.17	\$3,799	\$2,947	\$2,493	\$1,854
Public Works	\$156.08	\$167.65	\$618	\$480	\$406	\$302
Parking	\$5.02	\$5.02	\$19	\$14	\$12	\$9
Subtotal City-Wide Soft Services Charge	\$2,961.61	\$3,326.15	\$12,265	\$9,515	\$8,048	\$5,986
City Wide-Hard Services Charge	\$2,609.11	\$2,737.00	\$10,092	\$7,829	\$6,624	\$4,927
Total City-Wide Residential Charge	\$5,570.72	\$6,063.15	\$22,357	\$17,344	\$14,672	\$10,913
(1) Based on Persons Per Unit Of:			3.69	2.86	2.42	1.80

TABLE 11
CITY OF MARKHAM
SUMMARY OF CITY-WIDE DEVELOPMENT CHARGES
NON-RESIDENTIAL CHARGES

Service	Mixed Use Charge per Square Metre	Retail Use Charge per Square Metre	I.O.I. Charge per Square Metre
General Government	\$2.88	\$2.88	\$2.88
Fire Services	\$2.43	\$4.85	\$4.33
Public Works	\$2.12	\$4.24	\$3.78
Parking	\$0.12	\$0.12	\$0.12
TOTAL NON-RESIDENTIAL CHARGE	\$7.55	\$12.09	\$11.11

City-Wide Hard Non-Residential Charge	Calculated Charge per net ha
Charge Per Net Hectare	\$220,450

VII COMPARISON OF CALCULATED AND EXISTING DEVELOPMENT CHARGES

Tables 12 and 13 present a comparison of calculated City-wide hard and soft residential development charges with the City's current charges (as at January, 2013).

Table 12 shows that the calculated charge, by service, per single/semi detached unit of \$22,357 will produce an increase of \$2,731 over the present development charge of \$19,626. Table 13 then shows the combined total City-wide hard and soft increase by residential unit type. The increase in the residential rates is not experienced uniformly by all unit types. The increase for the ground-related units is roughly 12-13 per cent while the rate increases for apartments is sharper at 20 and 49 per cent for large and small apartments, respectively. Generally speaking, the occupancy patterns for apartment units are higher than any other municipality in York Region. Further to this, the occupancy patterns of high density units have risen since the 2008 and 2009 DC By-law reviews, while the Persons Per Unit (PPU) for the ground-related units have decreased since that time. A more detailed review of the City's PPU is contained in Appendix A.

Table 14 shows that the calculated charge, by service, for industrial/office/institutional development of \$11.11 per square metre will produce an increase of \$2.47 per square metre over the present development charge of \$8.64 per square metre. Table 15 displays the rate change for all non-residential sectors and for the City-wide hard component of the charge. For the soft services, the non-residential charges are increasing at around 28 per cent, while the charge for the City-wide hard services is increases by about 15 per cent.

TABLE 12
CITY OF MARKHAM
COMPARISON OF CURRENT AND CALCULATED
CITY-WIDE RESIDENTIAL DEVELOPMENT CHARGES BY SERVICES
FOR SINGLE AND SEMI-DETACHED RESIDENTIAL UNITS

Service	Current Residential Charge / SDU	Calculated Residential Charge / SDU	Difference in Charge	
General Government	\$354	\$470	\$116	32.8%
Library	\$759	\$1,137	\$378	49.8%
Fire Services	\$470	\$709	\$239	50.9%
Indoor Recreation	\$4,498	\$5,513	\$1,015	22.6%
Park Development & Facilities	\$3,990	\$3,799	(\$191)	-4.8%
Public Works	\$429	\$618	\$189	44.1%
Parking	\$0	\$19	\$19	N/A
Subtotal City-Wide Soft Services Charge	\$10,500	\$12,265	\$1,765	16.8%
City Wide-Hard Services Charge	\$9,126	\$10,092	\$966	10.6%
Total City-Wide Residential Charge	\$19,626	\$22,357	\$2,731	13.9%

TABLE 13
CITY OF MARKHAM
COMPARISON OF CURRENT AND CALCULATED
CITY-WIDE HARD AND SOFT RESIDENTIAL DEVELOPMENT CHARGES

Residential Unit Type	Current Residential Charge	Calculated Residential Charge	Difference in Charge
Single/Semi-Detached	\$19,626	\$22,357	\$2,731 13.9%
Townhouses	\$15,424	\$17,344	\$1,920 12.4%
Large Apartments	\$12,138	\$14,672	\$2,534 20.9%
Small Apartments	\$7,292	\$10,913	\$3,621 49.7%

TABLE 14

CITY OF MARKHAM
 COMPARISON OF CURRENT AND CALCULATED
 CITY-WIDE NON-RESIDENTIAL DEVELOPMENT CHARGES BY SERVICES
 FOR INDUSTRIAL/OFFICE/INSTITUTIONAL DEVELOPMENT

Service	Non-Residential (\$/Square Metre)			Difference in Charge	
	Current Non-Res IOI Charge	Calculated Non-Res IOI Charge			
General Government	\$2.45	\$2.88	\$0.43	18%	
Library	\$0.00	\$0.00	\$0.00	0%	
Fire Services	\$3.25	\$4.33	\$1.08	33%	
Indoor Recreation	\$0.00	\$0.00	\$0.00	0%	
Park Development & Facilities	\$0.00	\$0.00	\$0.00	0%	
Public Works	\$2.94	\$3.78	\$0.84	29%	
Parking	\$0.00	\$0.12	\$0.12	N/A	
TOTAL CHARGE PER SQUARE METRE	\$8.64	\$11.11	\$2.47	29%	

TABLE 15

CITY OF MARKHAM
 COMPARISON OF CURRENT AND CALCULATED
 CITY-WIDE HARD AND SOFT NON-RESIDENTIAL DEVELOPMENT CHARGES

Non-Residential Sector	Current Charge Per Sq.M.	Calculated Charge Per Sq.M.	Difference in Charge
Mixed Use	\$5.92	\$7.55	\$1.63
Retail Use	\$9.39	\$12.09	\$2.70
Industrial/Business Office/Institutional	\$8.64	\$11.11	\$2.47

City-Wide Hard	Current Charge Per Net Ha	Calculated Charge Per Net Ha	Difference in Charge
Charge Per Net Hectare	\$191,243	\$220,450	\$29,207

VIII 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 \$13 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 derived by City staff and presented to General Committee.

As shown in Table 16, by 2022, the City's net operating costs are estimated to increase by \$13.1 million. Significant increases in net operating costs will be experienced as new facilities such as the proposed new Pan Am facility, 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.

B. LONG-TERM CAPITAL FINANCING FROM NON-DEVELOPMENT CHARGE SOURCES TOTALS \$40.92 MILLION

Table 16 also summarizes the components of the development-related capital forecast that will require funding from non-development charge sources as discussed in Section VI. In total \$40.9 million will need to be financed from non-development charge sources over the next 10 years. In addition, \$159.7 million in interim financing, if any, would be addressed through the City's annual budget process. Because the by-laws must be revisited at least every five years, however, it is difficult to determine the quantum of interim financing that may be required. Appendix E provides a breakdown of the non-development charge financing requirements by service.

The share of the development-related capital forecast requiring funding from non-development charge sources consisting \$40.9 million is identified as the mandatory 10 per cent discount for certain City-wide soft services. Council is made aware of these factors so that they understand the operating and capital costs that will not be covered

TABLE 16
CITY OF MARKHAM
SUMMARY OF LONG-TERM CAPITAL AND
OPERATING COST IMPACTS FOR GENERAL SERVICES
(in thousands of constant dollars)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
Net Operating Impacts (1)											
Library	\$0.0	\$600.0	\$600.0	\$800.0	\$800.0	\$800.0	\$800.0	\$800.0	\$800.0	\$800.0	\$800.0
Fire Services	\$0.0	\$0.0	\$0.0	\$0.0	\$1,900.0	\$1,900.0	\$1,900.0	\$1,900.0	\$1,900.0	\$1,900.0	\$1,900.0
Indoor Recreation	\$1,400.0	\$3,200.0	\$3,200.0	\$3,200.0	\$3,200.0	\$3,200.0	\$3,200.0	\$3,200.0	\$3,200.0	\$3,200.0	\$3,200.0
Park Development & Facilities	\$1,165.6	\$1,447.4	\$1,615.8	\$1,794.2	\$1,853.2	\$2,013.0	\$2,200.2	\$2,373.9	\$2,514.4	\$2,572.8	\$2,572.8
Public Works	\$0.0	\$113.0	\$113.0	\$484.0	\$484.0	\$484.0	\$484.0	\$484.0	\$484.0	\$484.0	\$484.0
Roads and Related	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5
NET OPERATING IMPACTS	\$6,762.1	\$9,556.9	\$9,725.3	\$10,474.7	\$12,433.7	\$12,593.5	\$12,780.7	\$12,954.4	\$13,094.9	\$13,153.3	n/a
Long-term Capital Impact (1)											
Total Net Cost	\$173,123.7	\$124,701.1	\$22,561.8	\$48,837.3	\$12,217.7	\$20,106.1	\$23,252.3	\$21,837.8	\$17,506.0	\$7,514.3	\$471,658.1
Net Cost From Development Charges	\$100,365.3	\$81,868.8	\$1,986.4	\$21,623.5	\$4,333.9	\$396.8	\$0.0	\$213.7	\$0.0	\$0.0	\$210,788.4
Prior Growth Share from DC Reserve Balances (2)	\$57,340.1	\$2,909.1	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$60,249.2
Portion for Post-2022 Development (3)	\$0.0	\$28,998.4	\$18,517.9	\$24,250.3	\$7,162.4	\$17,736.6	\$20,965.3	\$19,477.9	\$15,789.8	\$6,800.7	\$159,699.3
Funding From Non-DC Sources											
Discount Portion	\$15,418.3	\$10,924.8	\$2,057.5	\$2,963.4	\$721.4	\$1,972.7	\$2,287.0	\$2,146.2	\$1,716.2	\$713.5	\$40,921.1
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	\$15,418.3	\$10,924.8	\$2,057.5	\$2,963.4	\$721.4	\$1,972.7	\$2,287.0	\$2,146.2	\$1,716.2	\$713.5	\$40,921.1
TOTAL NET OPERATING & CAPITAL IMPACTS	\$22,180.4	\$20,481.7	\$11,782.9	\$13,438.1	\$13,155.2	\$14,566.2	\$15,067.7	\$15,100.6	\$14,811.1	\$13,866.8	n/a

Notes:

- (1) See Appendix E
(2) Existing development charge reserve fund balances collected from growth prior to 2011 are applied to fund initial projects in development-related capital forecast
(3) Post 2022 development-related net capital costs may be eligible for development charge funding in future DC-by-laws

by development charges as it adopts the development-related capital forecast set out in this study.

IX DEVELOPMENT CHARGES ADMINISTRATION

A. DEVELOPMENT CHARGES POLICIES AND PRACTICES

No significant changes are recommended to the City's current policies and practices regarding development charges administration. Considering the requirements of the *DCA*, the following recommendations are made:

- It 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 proposed draft by-law is available, under separate cover, and all the by-law provisions are provided in the draft. The City is proposing to modify a few provisions of the development charges by-laws, some of which include:

- The addition of the Parking service level to the development charges recoveries;
- The calculation of the development charges at building permit issuance rather than building permit application;
- The 50 per cent industrial expansion exemption allowed under the DCA is broadened to include offices;
- An incentive for Community Use Facilities, in the form of a development charges deferral, where the facilities are owned and operated by a non-profit corporation, subject to specific requirements of the City.

A fulsome list of the proposed DC By-law changes will also be outlined in a City staff report.

C. LOCAL SERVICE DEFINITIONS

The City has undertaken a review of the its City-wide hard and area-specific development charges projects and costs. This review process has included the examination of its local service policies and recoveries and by funding more projects through the City-wide charges.

The following provides the definition of “local service”, under the *DCA*, for the services provided by the City of Markham and covered in this Background Study. The reason for establishing this definition is to determine the capital costs eligible for inclusion in the development charges calculation for the City. The functions or services deemed to be local in nature are not to be included in the determination of the development charges rates. 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 landowner or developer. The following outlines the City’s local service definitions and associated policies.

Local Service Definition

- A local service is the infrastructure required to develop a subdivision within the boundaries of the secondary plan in accordance with the City of Markham standards.
- The infrastructure is assumed by the City when the secondary plan is completed.
- Example:
 - Residential 17 m row & 8.5 m asphalt or industrial 21 m row & 11 m asphalt (medium-/high-density residential);
 - Turn lanes;
 - Parking bays;
 - Bike lanes;
 - Streetlights;
 - Utilities;
 - Municipal services;
 - Sidewalks and multi use paths

ASDC/CWH Project Assessment

- Illumination
 - All illumination on Regional and collector roads not in a draft plan/secondary plan of a subdivision are to be funded by CWH.
 - Illumination on collector and local roads in a draft plan are the responsibility of the developer (local service).
- Intersection
 - All intersection improvements/signals after assumption of a subdivision are to be financed by CWH.

- Roads/Bridges
 - The 4th travelled lanes (including land) in a residential plan of subdivision are to be financed by CWH.
 - The 4th travelled lane (including land) in an industrial and residential plan of subdivision are to be financed by CWH.
 - 3 lane of less in a residential subdivision is to be funded by the local developer.
 - Improvements to existing collector roads are to be financed by CWH (i.e. Yorktech and Miller).
 - New roads outside draft plans area to be financed by CWH.

- Structures/Crossings
 - Structures and crossings on major roads are considered to be of City-wide benefit and are to be funded fully from CWH.
 - 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 benefit. In these situations a share of the cost, to a maximum of 25%, may be recovered by CWH. 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.

- Sidewalks/Multi-Use Paths
 - Sidewalks/multi-use paths on Regional roads and collector roads not in a draft plan of a subdivision are to be funded by CWH.
 - Sidewalks/multi-use paths on City roads in a draft plan of subdivision are to be the responsibility of the developer.

- Studies
 - Stay in ASDC.

- Water
 - All watermains on Regional and collector roads not in a draft plan of subdivision are to be funded by CWH.
 - 300 mm watermains or less in a draft plan are the responsibility of the developer.
 - Oversizing of watermains (> 300 mm) in a draft plan are to be financed by CWH.

- Sanitary/Storm Sewers and Stormwater Management Facilities
 - To be funded from ASDC.

- Environmental Issues
 - To be funded by CWH.

- Special Projects
 - Streetscaping — enhanced streetscaping on internal roads within a plan of subdivision or abutting site plan be treated as 100% local cost.
 - Streetscaping — enhanced streetscaping on external and regional roads are to be funded 50% through CWH by-law and 50% through non-growth.

These policies are subject to ongoing review and update

APPENDIX A

DEVELOPMENT FORECAST

APPENDIX A

DEVELOPMENT FORECAST

This appendix provides the details of the development forecast used to prepare the 2013 Development Charges (DC) Background Study for the City of Markham. The forecast method and key assumptions are discussed. The results of the forecasts are presented in the following eleven tables:

- A.1 Historical Population, Dwellings and Employment
- A.2 Historical Housing Activity
- A.3 Historical Residential Building Permits
- A.4 Historical Household Size
- A.5 Forecast Population, Households and Employment
- A.6 Forecast Population, Household and Employment Growth Summary
- A.7 Growth in Household by Unit Type
- A.8 Forecast Population in New Units by Unit Type
- A.9 Forecast Person Per Unit by Type
- A.10 Forecast of Persons in Newly Construction Units
- A.11 Forecast of Non-Residential Development

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.

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 2013 to mid-year 2022, has been used for all the development charge eligible soft services in the City. The planning period from mid-year 2013 to mid-year 2031 (or Official Plan built-out) has been utilized for the City-wide Hard services.

The development forecasts are consistent with those approved by Regional Council in the York Region Official Plan.

B. FORECAST RESULTS

Development charges are levied on residential development as a charge per new unit and on non-residential development as a charge per unit of gross floor area (GFA).

1. Residential Development Forecast

The residential development forecast is based on forecasts of population and households, consistent with the York Region Official Plan. The population and household growth determines the need for additional facilities and provides the foundation for the development-related capital program. Tables A.5 and A.6 summarize the population and household growth forecast. The tables show that the City's population is forecast to increase by roughly 54,200 over the ten year planning period, and approximately 98,200 to 2031. The number of occupied dwellings will increase by 24,600 over the ten year period and 45,400 to 2031.

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 Tables A.7 and A.8). Population growth in new units is estimated by applying the following PPU's to the housing unit forecast: 3.69 for single and semi-detached units; 2.86 for rows and other multiples; and 2.02 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 (1996-2006) and adjusted by a factor for new units (see Tables A.9 and A.10). In total, 67,212 is the forecasted population in new dwelling units over the ten-year planning period and 121,306 is forecasted to 2031.

2. 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 non-residential building space has been developed. As with the residential forecast, a ten year development forecast, from mid-year 2013 to mid-year 2022, has been used for all the development charge

eligible soft services in the City. The planning period from mid-year 2013 to mid-year 2031 (or Official Plan built-out) has been utilized for the City-wide 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
Institutional:	66.7 square metres per employee
Employment Land:	80.0 square metres per employee
Major Office:	25.0 square metres per employee

The GFA forecasts are provided in Table A.11. The total GFA growth is forecast at 2.55 million square metres over the ten year period with an accompanying employment growth of 57,300. Over the longer planning period to 2031, it is forecasted that 74,300 new employees will be accommodated in 3.18 million square metres of new non-residential GFA.

CITY OF MARKHAM 2013 DEVELOPMENT CHARGES STUDY

TABLE A.1
Historic Population, Dwellings & Employment

Mid-Year	Census Population	Growth	Occupied Dwellings	Growth	HH Size	Employment by Place of Work	Growth	Activity Rate
1996	173,383		49,411		3.51	99,145		57.2%
1997	179,918	6,535	51,480	2,069	3.49	104,121	4,976	57.9%
1998	186,699	6,781	53,636	2,156	3.48	109,347	5,226	58.6%
1999	193,736	7,037	55,882	2,246	3.47	114,835	5,488	59.3%
2000	201,038	7,302	58,222	2,340	3.45	120,598	5,763	60.0%
2001	208,615	7,577	60,660	2,438	3.44	126,650	6,052	60.7%
2002	218,270	9,655	63,657	2,997	3.43	130,286	3,636	59.7%
2003	228,372	10,102	66,802	3,145	3.42	133,921	3,636	58.6%
2004	238,942	10,570	70,102	3,300	3.41	137,557	3,636	57.6%
2005	250,001	11,059	73,565	3,463	3.40	141,192	3,636	56.5%
2006	261,573	11,572	77,200	3,635	3.39	144,828	3,636	55.4%
2007	269,149	7,576	79,700	2,500	3.38	147,799	2,971	54.9%
2008	276,944	7,795	82,281	2,581	3.37	150,770	2,971	54.4%
2009	284,965	8,021	84,945	2,664	3.35	153,741	2,971	54.0%
2010	293,218	8,253	87,696	2,751	3.34	156,712	2,971	53.4%
2011	301,709	8,491	90,535	2,839	3.33	159,683	2,971	52.9%
2012	305,713	4,004	93,016	2,481	3.29	166,125	6,442	54.3%
2013	310,943	5,230	95,928	2,912	3.24	172,568	6,442	55.5%
2014	316,214	5,271	98,917	2,989	3.20	179,010	6,442	56.6%
2015	320,305	4,091	101,594	2,677	3.15	185,453	6,442	57.9%
2016	323,661	3,356	104,336	2,743	3.10	191,897	6,444	59.3%

Source: Statistics Canada, Census of Canada

CITY OF MARKHAM 2013 DEVELOPMENT CHARGES STUDY

TABLE A.2
Historic Housing Activity - Units

Year	Housing Completions - Units				Housing Completions - Units						
	Singles	Semis	Rows	Apts.	Total	Mid-Year	Singles	Semis	Rows	Apts.	Total
2000	1,799	258	568	196	2,821	2000	64%	9%	20%	7%	100%
2001	1,707	192	521	118	2,538	2001	67%	8%	21%	5%	100%
2002	2,572	554	569	115	3,810	2002	68%	15%	15%	3%	100%
2003	2,127	264	565	126	3,082	2003	69%	9%	18%	4%	100%
2004	1,845	778	631	602	3,856	2004	48%	20%	16%	16%	100%
2005	1,635	798	767	208	3,408	2005	48%	23%	23%	6%	100%
2006	1,939	464	686	661	3,750	2006	52%	12%	18%	18%	100%
2007	958	284	494	892	2,628	2007	36%	11%	19%	34%	100%
2008	1,481	296	365	889	3,031	2008	49%	10%	12%	29%	100%
2009	810	186	359	572	1,927	2009	42%	10%	19%	30%	100%
2010	484	160	124	942	1,710	2010	28%	9%	7%	55%	100%
2011	763	282	374	883	2,302	2011	33%	12%	16%	38%	100%
2012	1,164	319	848	330	2,660	2012	44%	12%	32%	12%	100%
Total	19,284	4,835	6,871	6,534	37,523	Total	51%	13%	18%	17%	100%
10-Year Average	1,321	383	521	610	2,835						
5-Year Average	940	249	414	723	2,326						

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

Historic Housing Activity - Shares By Unit Type

TABLE A.3
Historic Residential Building Permits

Year	Building Permits				Building Permits					
	Singles/Semis	Rows	Apts.	Total	Mid-Year	Singles/Semis	Rows	Apts.	Total	
2001	2,801	619	121	3,541	2001	79%	17%	3%	100%	
2002	2,952	454	534	3,940	2002	75%	12%	14%	100%	
2003	2,681	809	266	3,756	2003	71%	22%	7%	100%	
2004	1,917	622	605	3,144	2004	61%	20%	19%	100%	
2005	2,748	1,056	43	3,847	2005	71%	27%	1%	100%	
2006	1,340	748	1,184	3,272	2006	41%	23%	36%	100%	
2007	1,595	551	1,445	3,591	2007	44%	15%	40%	100%	
2008	1,533	384	438	2,355	2008	65%	16%	19%	100%	
2009	600	389	233	1,222	2009	49%	32%	19%	100%	
2010	748	278	457	1,483	2010	50%	19%	31%	100%	
2011	1,637	629	931	3,197	2011	51%	20%	29%	100%	
2012	1,458	1,272	2,261	4,991	2012	29%	25%	45%	100%	
Total	22,010	7,811	6,518	36,339	Total	57%	20%	22%	100%	
10-Year Average	1,626	674	786	3,086						
5-Year Average	1,195	590	864	2,650						

Source: Statistics Canada

CITY OF MARKHAM 2013 DEVELOPMENT CHARGES STUDY

TABLE A.4
Historic Households by Period of Construction Showing Household Size

	Period of Construction										Total	
	Pre 1946	1946-1960	1961-1970	1971-1980	1981-1985	1986-1990	1991-1995	1996-2001	2001-2006	Pre 1996		1996-2006
Low Density												
Household Population	2,360	4,705	13,205	26,510	36,890	37,900	19,225	30,465	49,625	140,795	80,090	220,885
Households	895	1,735	4,475	8,075	10,130	9,870	4,800	7,755	13,260	39,980	21,015	60,995
Household Size	2.64	2.71	2.95	3.28	3.64	3.84	4.01	3.93	3.74	3.52	3.81	3.62
Singles												
Household Population	2,070	4,085	12,150	23,650	32,320	30,865	16,200	26,840	40,505	121,340	67,345	188,685
Households	770	1,495	4,090	7,180	8,945	8,095	4,005	6,760	10,585	34,580	17,345	51,925
Household Size	2.69	2.73	2.97	3.29	3.61	3.81	4.04	3.97	3.83	3.51	3.88	3.63
Semis												
Household Population	0	175	350	1,170	715	210	0	1,435	7,410	2,620	8,845	11,465
Households	10	55	115	395	215	75	20	445	2,220	885	2,665	3,550
Household Size	0.00	3.18	3.04	2.96	3.33	2.80	0.00	3.22	3.34	2.96	3.32	3.23
Duplex Apartments												
Household Population	290	445	705	1,690	3,855	6,825	3,025	2,190	1,710	16,835	3,900	20,735
Households	115	185	270	500	970	1,700	775	550	455	4,515	1,005	5,520
Household Size	2.52	2.41	2.61	3.38	3.97	4.01	3.90	3.98	3.76	3.73	3.88	3.76
Medium Density (Row Houses)												
Household Population	0	275	1,010	4,970	1,115	675	1,115	6,160	9,155	9,160	15,315	24,475
Households	15	100	415	1,785	400	220	365	2,175	3,090	3,300	5,265	8,565
Household Size	0.00	2.75	2.43	2.78	2.79	3.07	3.05	2.83	2.96	2.78	2.91	2.86
High Density												
Household Population	230	925	1,715	2,685	965	2,310	1,745	1,460	2,910	10,575	4,370	14,945
Households	140	420	850	1,540	470	1,185	830	750	1,420	5,435	2,170	7,605
Household Size	1.64	2.20	2.02	1.74	2.05	1.95	2.10	1.95	2.05	1.95	2.01	1.97
Apartments with less than 5 storeys												
Household Population	80	115	150	125	140	375	275	455	810	1,260	1,265	2,525
Households	65	60	100	75	60	200	120	295	385	680	680	1,360
Household Size	1.23	1.92	1.50	1.67	2.33	1.88	2.29	1.54	2.10	1.85	1.86	1.86
Apartments with more than 5 storeys												
Household Population	150	810	1,565	2,560	825	1,935	1,470	1,005	2,100	9,315	3,105	12,420
Households	75	360	750	1,465	410	985	710	455	1,035	4,755	1,490	6,245
Household Size	2.00	2.25	2.09	1.75	2.01	1.96	0.00	0.00	0.00	1.96	2.08	1.99

Source: Statistics Canada, 2006 Census Special Run

CITY OF MARKHAM 2013 DEVELOPMENT CHARGES STUDY

TABLE A.5
Population, Household & Employment Forecast Summary

Mid-Year	Census Population	Total Private Dwellings	Employment by POW	HH Size	Activity Rate
2013	310,943	95,928	172,568	3.24	55.5%
2014	316,214	98,917	179,010	3.20	56.6%
2015	320,305	101,594	185,453	3.15	57.9%
2016	323,661	104,336	191,897	3.10	59.3%
2017	330,553	106,774	197,807	3.10	59.8%
2018	337,085	109,104	203,719	3.09	60.4%
2019	343,286	111,335	209,630	3.08	61.1%
2020	349,184	113,474	215,542	3.08	61.7%
2021	354,800	115,530	221,500	3.07	62.4%
2022	359,917	117,612	223,408	3.06	62.1%
2023	365,246	119,776	225,362	3.05	61.7%
2024	370,639	121,976	227,317	3.04	61.3%
2025	376,099	124,211	229,271	3.03	61.0%
2026	381,628	126,484	231,200	3.02	60.6%
2027	386,000	128,796	233,062	3.00	60.4%
2028	390,415	131,148	234,898	2.98	60.2%
2029	394,878	133,541	236,735	2.96	60.0%
2030	399,389	135,978	238,571	2.94	59.7%
2031	403,953	138,460	240,413	2.92	59.5%

Source: York Region Official Plan, and Hemson Consulting Ltd., 2013

TABLE A.6
Forecast Population & Household Growth Summary

Mid-Year	Census Pop'n Growth	Total Occupied Dwellings Growth	Employment by POW Growth
2013	5,230	2,912	6,442
2014	5,271	2,989	6,442
2015	4,091	2,677	6,442
2016	3,356	2,743	6,444
2017	6,892	2,438	5,910
2018	6,532	2,330	5,912
2019	6,202	2,231	5,912
2020	5,897	2,140	5,912
2021	5,617	2,056	5,958
2022	5,117	2,081	1,908
2023	5,329	2,165	1,954
2024	5,393	2,199	1,954
2025	5,460	2,236	1,954
2026	5,529	2,273	1,929
2027	4,372	2,312	1,862
2028	4,416	2,352	1,837
2029	4,462	2,394	1,837
2030	4,512	2,437	1,837
2031	4,564	2,481	1,842
2013-2022	54,204	24,596	57,283
2013-2031	98,240	45,444	74,288

Source: York Region Official Plan, and Hemson Consulting Ltd., 2013

CITY OF MARKHAM 2013 DEVELOPMENT CHARGES STUDY

TABLE A.7
Growth in Households by Unit Type

Mid-Year	Singles & Semis	Rows & Other Multiples	Apartments	Total New HH
2013	1,152	607	1,153	2,912
2014	1,132	546	1,311	2,989
2015	979	430	1,268	2,677
2016	956	462	1,325	2,743
2017	809	430	1,199	2,438
2018	736	430	1,164	2,330
2019	671	430	1,130	2,231
2020	613	429	1,098	2,140
2021	562	429	1,065	2,056
2022	546	489	1,046	2,081
2023	556	501	1,108	2,165
2024	554	500	1,145	2,199
2025	552	500	1,184	2,236
2026	549	500	1,223	2,273
2027	547	500	1,265	2,312
2028	545	500	1,307	2,352
2029	542	500	1,351	2,394
2030	540	500	1,397	2,437
2031	538	500	1,443	2,481
2013-2022	8,156	4,682	11,759	24,596
2013-2031	13,079	9,183	23,182	45,444

TABLE A.8
Forecast Population in New Households by Unit Type*

Mid-Year	Singles & Semis	Rows & Other Multiples	Apartments	Total Population in New HH
2013	4,248	1,736	2,328	8,312
2014	4,174	1,562	2,647	8,383
2015	3,610	1,230	2,561	7,401
2016	3,525	1,322	2,676	7,523
2017	2,983	1,230	2,421	6,634
2018	2,714	1,230	2,351	6,295
2019	2,474	1,230	2,282	5,986
2020	2,260	1,227	2,217	5,704
2021	2,072	1,227	2,151	5,450
2022	2,013	1,399	2,112	5,524
2023	2,050	1,433	2,238	5,721
2024	2,043	1,430	2,312	5,785
2025	2,035	1,430	2,391	5,856
2026	2,024	1,430	2,470	5,924
2027	2,017	1,430	2,555	6,002
2028	2,010	1,430	2,639	6,079
2029	1,999	1,430	2,728	6,157
2030	1,991	1,430	2,821	6,242
2031	1,984	1,430	2,914	6,328
2013-2022	30,073	13,393	23,746	67,212
2013-2031	48,226	26,266	46,814	121,306

Source: York Region Official Plan, and Hemson Consulting Ltd., 2013

*Based on PPU of:

3.69

2.86

2.02

CITY OF MARKHAM 2013 DEVELOPMENT CHARGES STUDY

TABLE A.9
Forecast Person per Unit by Unit Type

Year at Mid-Year	Persons Per Unit			All Units
	Single & Semi	Row	Apartment	
2011	3.59	2.88	2.02	3.32
2012	3.55	2.85	2.00	3.27
2013	3.51	2.82	1.98	3.22
2014	3.47	2.78	1.95	3.18
2015	3.43	2.75	1.93	3.13
2016	3.39	2.72	1.91	3.09
2017	3.40	2.72	1.91	3.08
2018	3.40	2.73	1.92	3.07
2019	3.41	2.73	1.92	3.07
2020	3.41	2.74	1.92	3.06
2021	3.42	2.74	1.92	3.05
2022	3.42	2.74	1.92	3.04
2023	3.41	2.74	1.92	3.03
2024	3.41	2.74	1.92	3.02
2025	3.41	2.74	1.92	3.01
2026	3.41	2.74	1.92	3.00
2027	3.40	2.73	1.91	2.98
2028	3.39	2.72	1.91	2.96
2029	3.38	2.71	1.90	2.94
2030	3.37	2.70	1.90	2.92
2031	3.35	2.69	1.89	2.90

TABLE A.10
Forecast of Persons in Newly Constructed Units

	Population in New Units by Unit Type			All Units
	Single & Semi	Row	Apartment	
PPU for New Units Added 2013-2022	3.69	2.86	2.02	2.73
New Units Added 2013 Through Year End 2022	8,156	4,682	11,759	24,597
Household Population in New Units Added 2013-22	30,074	13,393	23,747	67,214

Singles/Semis/	Households	HH Population	PPU	2006 PPU	Factor for New Units
Duplexes	30,465	7,765	3.92		
1996-01	49,625	13,270	3.74		
1996-06	80,090	21,035	3.81	3.62	1.0506
Rows					
1996-01	6,160	2,175	2.83		
2001-06	9,155	3,090	2.96		
1996-06	15,315	5,265	2.91	2.86	1.0161
Apartments					
1996-01	1,460	750	1.95		
2001-06	2,910	1,420	2.05		
1996-06	4,370	2,170	2.01	1.97	1.0219

CITY OF MARKHAM 2013 DEVELOPMENT CHARGES STUDY

TABLE A.11
Non-Residential Space Forecast

Employment Density

- Retail 40.0 m² per employee
- Institutional 66.7 m² per employee
- Work at Home 0.0 m² per employee
- Employment Land 80.0 m² per employee
- Major Office 25.0 m² per employee

Mid-Year	Retail		Institutional		Work at Home		Employment Land		Major Office		Total	
	Total Emp	Emp Growth	Total Emp	Emp Growth	Total Emp	Emp Growth	Total Emp	Emp Growth	Total Emp	Emp Growth	Total Emp	Emp Growth
2012	30,560		10,180		14,162		57,501		53,721		166,125	
2013	31,220	660	10,417	236	14,844	681	59,500	1,998	56,587	2,866	172,568	6,442
2014	31,880	660	10,653	236	15,525	681	61,498	1,998	59,454	2,866	179,010	6,442
2015	32,540	660	10,890	236	16,207	681	63,497	1,998	62,320	2,866	185,453	6,442
2016	33,200	660	11,126	236	16,888	681	65,495	1,998	65,186	2,866	191,895	6,442
2017	33,860	480	11,276	150	17,477	589	67,867	2,372	67,507	2,321	197,807	5,912
2018	34,160	480	11,425	150	18,066	589	70,239	2,372	69,829	2,321	203,719	5,912
2019	34,640	480	11,575	150	18,654	589	72,611	2,372	72,150	2,321	209,630	5,912
2020	35,120	480	11,724	150	19,243	589	74,983	2,372	74,472	2,321	215,542	5,912
2021	35,600	480	11,874	150	19,832	589	77,355	2,372	76,793	2,321	221,454	5,912
2022	35,700	100	11,907	33	20,251	419	77,945	590	77,605	812	223,408	1,954
2023	35,800	100	11,940	33	20,689	419	78,535	590	78,417	812	225,362	1,954
2024	35,900	100	11,974	33	21,088	419	79,126	590	79,230	812	227,317	1,954
2025	36,000	100	12,007	33	21,506	419	79,716	590	80,042	812	229,271	1,954
2026	36,100	100	12,040	33	21,925	419	80,306	590	80,854	812	231,225	1,954
2027	36,160	60	12,065	25	22,351	426	80,842	536	81,642	788	233,062	1,837
2028	36,220	60	12,091	25	22,778	426	81,379	536	82,431	788	234,898	1,837
2029	36,280	60	12,116	25	23,204	426	81,915	536	83,219	788	236,735	1,837
2030	36,340	60	12,142	25	23,631	426	82,452	536	84,008	788	238,571	1,837
2031	36,400	60	12,167	25	24,057	426	82,988	536	84,796	788	240,408	1,837
2013-2022	5,140	205,600	1,727	115,118	6,088	0	20,444	1,635,504	23,884	597,100	57,283	2,553,322
2013-2031	5,840	233,600	1,987	132,435	9,895	0	25,487	2,038,928	31,075	776,870	74,283	3,181,833

Source: York Region Official Plan, and Hemson Consulting Ltd., 2013



APPENDIX B

SOFT SERVICES

TECHNICAL APPENDIX

APPENDIX B

SOFT SERVICES TECHNICAL APPENDIX INTRODUCTION AND OVERVIEW

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	Parking

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.

TABLE 1 HISTORIC SERVICE LEVELS

Table 1 presents the data used to determine the ten-year historic 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 historic inventory period has been defined as 2003 to 2012.

O. Reg. 82/98 requires that when defining and determining historic 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 Table 1 shows the calculation of the “maximum allowable”, net of uncommitted excess capacity and the legislated 10 per cent reduction (for all applicable services). The maximum allowable is defined as the 10-year historic service level (expressed as either \$/population & household or \$/employment & household) multiplied by the forecast increase in net population and household growth, or net employment and household growth, over the planning period. The resulting figure is the value of capital infrastructure that must be constructed for that particular service so that the ten-year historic service level is maintained.

There is also a requirement in the *DCA* to consider “excess capacity” within the City’s existing infrastructure that may be available to partially meet the future servicing requirements. If Council has expressed its intent before or at the time the capacity was created to recoup the cost of providing the capacity from new development, it is considered “committed excess capacity” under the *DCA*, and the associated capital cost is eligible for recovery. Should uncommitted excess capacity exist, it is determined whether or not this capacity will be available to service new development and, if so, deductions to maximum allowable funding envelope are required.

**TABLE 2 2013 – 2022 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 2013 to 2022.

To determine the share of the program that is eligible for recovery through development charges, the project costs are reduced by any anticipated grants, “replacement” shares and the legislated “10 per cent reduction” for any eligible services.

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.

When calculating development charges, the development-related net capital cost must be reduced by 10 per cent for all services except protection services and engineered services (*DCA s.5.(1)8.*). The 10 per cent discount is therefore applied to all soft services considered in this appendix with the exception of Fire Services and Public Works. As with replacement shares, the 10 per cent mandatory reduction must be funded from non-development charge sources.

The capital program less any replacement or benefit to existing shares, 10 per cent discount, yields the development related costs. Although deemed development-related, not all of the net development-related capital program may be recoverable from development charges in the period from 2013 to 2022. For some of the services, a portion of the capital program will service growth that will not occur until after 2022. This portion of the capital program is either deemed “pre-built” service capacity to be considered as committed excess capacity to be recovered under future development, or is a service level increase.

The remaining portion of the net capital program represents the development-related cost that may be included in the development charge. In all cases, as required, this amount is equal to or less than the maximum allowable capital amount as calculated on the final page of Table 1. The result is the discounted development-related net capital cost that is eligible for recovery against development over the period from 2013 to 2022.

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 Table 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 all soft services with the exception of Library, Indoor Recreation, and Park Development and Facilities, the development-related costs have been apportioned as 54 per cent residential and 46 per cent non-residential. This apportionment is based on the anticipated shares of population in new units and employment growth over the ten-year forecast period.

The development-related costs associated with the Library, Indoor Recreation, and Park Development and Facilities have been allocated 100 per cent to the residential sector because the need for these services is generally driven by residential development.

The residential share of the 2013-2022 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.

TABLE 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.

Table 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. Consistent with s.5(1)7 of the *DCA*, the eligible development-related capital costs for the provision of studies and permitted general government expenditures and are reduced by 10 per cent when calculating the development charges.

TABLE 1 2003-2012 HISTORIC SERVICE LEVELS

Table 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 (2003-2012).

Table 1 identifies a ten-year average service level for the provision of development-related studies of \$1.46 million per year. Based on this average service level, an additional \$14.55 million is the maximum allowable that can be included in the development charges calculation.

**TABLE 2 2013 – 2022 DEVELOPMENT-RELATED CAPITAL PROGRAM AND
CALCULATION OF THE UNADJUSTED DEVELOPMENT CHARGES**

As shown on Table 2, the 2013–2022 development-related gross cost for General Government is \$20.78 million. This provides for the annual provision of \$1.46 million for various studies per year (based on ten-year historical average). The General Government capital program also recovers for the negative reserve fund balance, which, at December 31, 2012 the reserve fund was in a negative position of \$6.23 million. The negative DC reserve fund balance for General Government has not been reduced by 10%, as this reduction was made in prior DC by-laws.

The legislated ten per cent reduction, \$1.46 million is discounted from the capital costs. Another amount, \$4.77 million, has been deemed as a post-period benefit. These shares have been removed from the development charges calculation.

The remaining amount of \$14.55 million is eligible for development charges funding in the ten-year planning period. This amount is allocated 54 per cent, or \$7.85 million to the residential sector and 46 per cent, or \$6.70 million to the non-residential sector based on shares of ten-year growth in population in new units and employment. The resulting unadjusted per capita residential charge is \$116.91 before cash flow adjustments. The non-residential unadjusted charge is \$2.62 per square metre.

TABLE 3 CASH FLOW ANALYSIS

After cash flow analysis, the residential charge increases to \$127.45 per capita and the non-residential charge increases to \$2.88 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.

GENERAL GOVERNMENT SUMMARY					
2013 - 2022		Unadjusted		Adjusted	
Development-Related Capital Program		Development Charge		Development Charge	
Total	Net DC Recoverable	\$/capita	\$/sq.m	\$/capita	\$/sq.m
\$20,782,413	\$14,554,500	\$116.91	\$2.62	\$127.45	\$2.88

APPENDIX B.1
TABLE 1

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
GENERAL GOVERNMENT

Growth-Related Studies Description	\$ Amount Spent										Total
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	
Various Studies	\$125,775	\$1,480,907	\$1,529,840	\$841,725	\$1,307,910	\$1,454,225	\$2,231,421	\$989,200	\$2,016,081	\$2,162,550	\$14,139,633
Development Charges Studies	\$0	\$117,900	\$0	\$135,000	\$0	\$112,000	\$50,000	\$0	\$0	\$0	\$414,900
Total (\$000)	\$125.8	\$1,598.8	\$1,529.8	\$976.7	\$1,307.9	\$1,566.2	\$2,281.4	\$989.2	\$2,016.1	\$2,162.6	

CITY OF MARKHAM
CALCULATION OF SERVICE LEVELS
GENERAL GOVERNMENT

SERVICE LEVEL (\$/year)

Growth-Related Studies	\$125.78	\$1,598.81	\$1,529.84	\$976.72	\$1,307.91	\$1,566.22	\$2,281.42	\$989.20	\$2,016.08	\$2,162.55	\$1,455.45
Total (\$000)	\$125.78	\$1,598.81	\$1,529.84	\$976.72	\$1,307.91	\$1,566.22	\$2,281.42	\$989.20	\$2,016.08	\$2,162.55	\$1,455.45

Average
Service
Level

CITY OF MARKHAM
CALCULATION OF MAXIMUM ALLOWABLE
GENERAL GOVERNMENT

10-Year Funding Envelope Calculation	
10 Year Average Service Level 2003 - 2012	\$1,455.45
Ten-Year (2013 - 2022) Planning Period	10
Maximum Allowable Funding Envelope	\$14,554,500

CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARKING

Project Description	Timing	Gross Project Cost	Grants/Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs	
					Replacement & BTE Shares	10% Reduction			2013-2022	Post 2022
1.0 GENERAL GOVERNMENT										
1.1 Development-Related Studies										
1.1.1 Recovery of Negative Reserve Fund Balance	2013	\$ 6,227,913	\$ -	\$ 6,227,913	\$ -	\$ -	\$ 6,227,913	\$ -	\$ 6,227,913	\$ -
1.1.2 Various Studies	2013	\$ 1,455,450	\$ -	\$ 1,455,450	\$ 145,545	\$ -	\$ 1,309,905	\$ -	\$ 1,309,905	\$ -
1.1.3 Various Studies	2014	\$ 1,455,450	\$ -	\$ 1,455,450	\$ 145,545	\$ -	\$ 1,309,905	\$ -	\$ 1,309,905	\$ -
1.1.4 Various Studies	2015	\$ 1,455,450	\$ -	\$ 1,455,450	\$ 145,545	\$ -	\$ 1,309,905	\$ -	\$ 1,309,905	\$ -
1.1.5 Various Studies	2016	\$ 1,455,450	\$ -	\$ 1,455,450	\$ 145,545	\$ -	\$ 1,309,905	\$ -	\$ 1,309,905	\$ -
1.1.6 Various Studies	2017	\$ 1,455,450	\$ -	\$ 1,455,450	\$ 145,545	\$ -	\$ 1,309,905	\$ -	\$ 1,309,905	\$ -
1.1.7 Various Studies	2018	\$ 1,455,450	\$ -	\$ 1,455,450	\$ 145,545	\$ -	\$ 1,309,905	\$ -	\$ 1,309,905	\$ -
1.1.8 Various Studies	2019	\$ 1,455,450	\$ -	\$ 1,455,450	\$ 145,545	\$ -	\$ 1,309,905	\$ -	\$ 1,309,905	\$ -
1.1.9 Various Studies	2020	\$ 1,455,450	\$ -	\$ 1,455,450	\$ 145,545	\$ -	\$ 1,309,905	\$ -	\$ 1,309,905	\$ 842,748
1.1.10 Various Studies	2021	\$ 1,455,450	\$ -	\$ 1,455,450	\$ 145,545	\$ -	\$ 1,309,905	\$ -	\$ -	\$ 1,309,905
1.1.11 Various Studies	2022	\$ 1,455,450	\$ -	\$ 1,455,450	\$ 145,545	\$ -	\$ 1,309,905	\$ -	\$ -	\$ 1,309,905
TOTAL GENERAL GOVERNMENT		\$ 20,782,413	\$ -	\$ 20,782,413	\$ 1,455,450	\$ -	\$ 19,326,963	\$ -	\$ 14,554,500	\$ 4,772,463

Residential Development Charge Calculation		
Residential Share of 2013 - 2022 DC Eligible Costs	54%	\$7,857,654
10-Year Growth in Population in New Units		67,212
Unadjusted Development Charge Per Capita		\$116.91
Non-Residential Development Charge Calculation		
Non-Residential Share of 2013 - 2022 DC Eligible Costs	46%	\$6,696,846
10-Year Growth in Square Metres		2,553,322
Unadjusted Development Charge Per Square Metre		\$2.62

2013 - 2022 Net Funding Envelope	\$14,554,500
Reserve Fund Balance	(\$6,227,913)

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

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
GENERAL GOVERNMENT											
OPENING CASH BALANCE	\$0.00	(\$3,092.88)	(\$2,888.07)	(\$2,796.98)	(\$2,679.11)	(\$2,674.13)	(\$2,714.36)	(\$2,278.41)	(\$1,554.01)	(\$811.44)	
2013 - 2022 RESIDENTIAL FUNDING REQUIREMENTS											
- General Government: Non Inflated	\$4,069.5	\$707.2	\$707.2	\$707.2	\$707.2	\$707.2	\$252.2	\$0.0	\$0.0	\$0.0	\$7,857.7
- General Government: Inflated	\$4,069.5	\$721.3	\$735.8	\$750.5	\$765.5	\$780.8	\$284.0	\$0.0	\$0.0	\$0.0	\$8,107.4
NEW RESIDENTIAL DEVELOPMENT											
- Population Growth in New Units	8,312	8,383	7,401	7,523	6,634	6,295	5,986	5,704	5,450	5,524	67,212
REVENUE											
- DC Receipts: Inflated	\$1,059.4	\$1,089.8	\$981.4	\$1,017.5	\$915.2	\$885.8	\$859.2	\$835.1	\$813.8	\$841.4	\$9,298.6
INTEREST											
- Interest on Opening Balance	\$0.0	(\$170.1)	(\$158.8)	(\$153.8)	(\$147.4)	(\$147.1)	(\$149.3)	(\$125.3)	(\$85.5)	(\$44.6)	(\$1,181.9)
- Interest on In-year Transactions	(\$82.8)	\$6.4	\$4.3	\$4.7	\$2.6	\$1.8	\$10.1	\$14.6	\$14.2	\$14.7	(\$9.3)
TOTAL REVENUE	\$976.6	\$926.1	\$826.9	\$868.3	\$770.5	\$740.6	\$720.0	\$724.4	\$742.6	\$811.5	\$8,107.4
CLOSING CASH BALANCE	(\$3,092.9)	(\$2,888.1)	(\$2,797.0)	(\$2,679.1)	(\$2,674.1)	(\$2,714.4)	(\$2,278.4)	(\$1,554.0)	(\$811.4)	\$0.1	

2013 Adjusted Charge Per Capita **\$127.45**

Allocation of Capital Program		
Residential Sector		54.0%
Non-Residential Sector		46.0%
Rates for 2013		
Inflation Rate:		2.0%
Interest Rate on Positive Balances		3.5%
Interest Rate on Negative Balances		5.5%

APPENDIX B.1
TABLE 3 - PAGE 2

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

GENERAL GOVERNMENT	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
OPENING CASH BALANCE	\$0.00	(\$2,753.82)	(\$2,712.74)	(\$2,665.53)	(\$2,611.79)	(\$2,540.75)	(\$2,461.47)	(\$1,929.13)	(\$1,102.90)	(\$212.60)	
2013 - 2022 NON-RESIDENTIAL FUNDING REQUIREMENTS											
- General Government: Non Inflated	\$3,468.3	\$602.7	\$602.7	\$602.7	\$602.7	\$602.7	\$214.9	\$0.0	\$0.0	\$0.0	\$6,696.8
- General Government: Inflated	\$3,468.3	\$614.8	\$627.1	\$639.6	\$652.4	\$665.4	\$242.1	\$0.0	\$0.0	\$0.0	\$6,909.7
NON-RESIDENTIAL SPACE GROWTH											
- Growth in Square Metres	273,687	273,687	273,687	273,687	276,968	276,968	276,968	276,968	276,968	73,734	2,553,322
REVENUE											
- DC Receipts: Inflated	\$788.2	\$804.0	\$820.1	\$836.5	\$863.4	\$880.7	\$898.3	\$916.3	\$934.6	\$253.8	\$7,995.9
INTEREST											
- Interest on Opening Balance	\$0.0	(\$151.5)	(\$149.2)	(\$146.6)	(\$143.6)	(\$139.7)	(\$135.4)	(\$106.1)	(\$60.7)	(\$11.7)	(\$1,044.5)
- Interest on In-year Transactions	(\$73.7)	\$3.3	\$3.4	\$3.4	\$3.7	\$3.8	\$11.5	\$16.0	\$16.4	\$4.4	(\$7.8)
TOTAL REVENUE	\$714.5	\$655.9	\$674.3	\$693.3	\$723.4	\$744.7	\$774.4	\$826.2	\$890.3	\$246.5	\$6,943.6
CLOSING CASH BALANCE	(\$2,753.8)	(\$2,712.7)	(\$2,665.5)	(\$2,611.8)	(\$2,540.7)	(\$2,461.5)	(\$1,929.1)	(\$1,102.9)	(\$212.6)	\$33.9	

2013 Adjusted Charge Per Square Metre **\$2.88**

Allocation of Capital Program	
Residential Sector	54.0%
Non-Residential Sector	46.0%
Rates for 2013	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



APPENDIX B.2

LIBRARY

APPENDIX B.2
LIBRARY SERVICES

The Markham Public Library provides library services from six 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 1 2003-2012 HISTORIC SERVICE LEVELS

Table 1 displays the Library's ten-year historic inventory for buildings, land, materials, and furniture and equipment (excluding computer equipment). The building space amounts to 123,051 square feet which is valued at \$44.47 million. The library buildings occupy approximately 5.92 hectares of land worth \$26.62 million. The collection materials are valued at \$20.50 million and furniture and equipment associated with the branch is valued at \$7.77 million.

The 2012 full replacement value of the inventory of capital assets amounts to \$99.36 million and the ten-year historic average service level is \$263.81 per population and household.

The historic service level multiplied by the ten-year forecast of net population and household growth results in a ten-year maximum allowable funding envelope of \$20.79 million (78,800 net population and household growth X historic service level of \$263.81/population & household). No excess capacity has been identified for this service.

Library must be reduced by ten per cent as required under the *DCA*. The resulting net maximum allowable funding envelope brought forward to the development charges calculation is reduced to \$18.71 million.

**TABLE 2 2013 – 2022 DEVELOPMENT-RELATED CAPITAL PROGRAM &
CALCULATION OF THE UNADJUSTED DEVELOPMENT CHARGE**

The first project in the Library capital program is for the recovery of the negative reserve fund balance. The negative DC reserve fund balance for the Library amounts to \$3.13 million. This amount has not been reduced by 10%, as this reduction was made in prior DC by-laws.

The remainder of the Library Board capital program provides for the construction of a new library branch in South East Markham. This project involves the purchase of land for \$867,769, the construction of the 20,000 square foot building at a cost of \$9.71 million, fixtures furniture and equipment purchases of \$1.29 million, and collection materials for this branch at a cost of \$2.99 million.

Markham Public Library also perceives the need for a library expansion of roughly 13,000 square feet during the DC Study planning period. The expansion will cost roughly \$5.2 million, fixtures, furniture and equipment for this expansion will be roughly \$421,600 and additional library materials at a cost of \$1.98 million.

The total gross cost of the Library DC capital program is \$25.59 million. No grants, subsidies, 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 \$25.59 million. No shares of the projects are deemed to be a replacement, as they are net additions to the current Library's service level and as such, no shares are deducted for replacement or benefit to existing. As required by the DCA, a 10 per cent reduction has been applied to the new projects, and these shares amount to \$2.25 million. The net municipal cost of this program is then netted down to \$23.34 million as this amount is deemed to be DC eligible. However, a portion of the Library capital program, \$4.63 million, is deemed as a post-period benefit, and will not be recovered under this development charges by-law, but will be considered in future development charge studies, subject to service level restrictions.

The 2013–2022 DC costs eligible for recovery amounts to \$18.71 million which is allocated entirely against future residential development in the City of Markham. This results in an unadjusted development charge of \$278.36 per capita.

TABLE 3 CASH FLOW AND RESERVE FUND ANALYSIS

After cash flow, the residential calculated charge increases to \$308.45 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 SUMMARY						
10-year Hist.	2013 - 2022		Unadjusted		Adjusted	
Service Level	Development-Related Capital Program		Development Charge		Development Charge	
per pop & HH	Total	Net DC Recoverable	\$/capita	\$/sq.m	\$/capita	\$/sq.m
\$263.81	\$25,589,564	\$18,709,294	\$278.36	\$0.00	\$308.45	\$0.00

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
LIBRARY

BUILDINGS Branch Name	# of Square Feet										UNIT COST (\$/sq. ft.)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
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	\$407
Markham Village Library - 6031 Hwy #7, Markham	19,561	19,561	19,561	19,561	32,510	32,510	32,510	32,510	32,510	32,510	32,510	\$407
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	16,865	\$315
Thornhill CC Library - 7755 Bayview Ave., Thornhill	25,053	25,053	25,053	25,053	25,053	25,053	25,053	25,053	26,053	26,053	26,053	\$315
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	4,283	\$315
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	13,640	\$315
Total (sq.ft.)	79,402	109,102	109,102	109,102	122,051	122,051	122,051	122,051	123,051	123,051	123,051	
Total (\$000)	\$26,796.1	\$38,884.0	\$38,884.0	\$38,884.0	\$44,154.2	\$44,154.2	\$44,154.2	\$44,154.2	\$44,469.0	\$44,469.0	\$44,469.0	

LAND Branch Name	# of Hectares										UNIT COST (\$/ha)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
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	\$4,497,000
Markham Village Library - 6031 Hwy #7, Markham	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	\$4,497,000
Milliken Mills Library - Unit 1, 7600 Kennedy Rd., Unionville	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	\$4,497,000
Thornhill CC Library - 7755 Bayview Ave., Thornhill	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	\$4,497,000
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	0.10	\$4,497,000
Unionville Library - 15 Library Lane, Unionville	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	\$4,497,000
Total (ha)	4.72	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	
Total (\$000)	\$21,225.8	\$26,622.2	\$26,622.2	\$26,622.2	\$26,622.2	\$26,622.2	\$26,622.2	\$26,622.2	\$26,622.2	\$26,622.2	\$26,622.2	

APPENDIX B.2
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CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
LIBRARY

MATERIALS Type of Collection	# of Collection Materials											UNIT COST (\$/Item)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
- 16 mm Films	49	49	49	27	27	27	41	-	-	-	-	\$71.44
- Audiocassettes	2,382	1,403	424	347	293	179	-	-	-	-	-	\$12.76
- Talking Books	8,096	12,052	12,162	13,663	14,128	14,497	14,446	11,804	13,415	14,169	14,169	\$53.54
- Talking Books (kits)	1,909	2,877	2,828	3,665	3,663	4,130	3,794	4,077	4,207	3,552	3,552	\$72.98
- Books	398,788	478,847	458,619	493,540	512,885	561,583	559,468	512,551	487,570	556,726	556,726	\$26.84
- Browsing PB	98,801	110,447	95,589	105,910	85,574	68,654	63,646	63,800	76,215	80,268	80,268	\$111.10
- CD-ROM Software	3,869	5,395	6,293	6,792	6,128	5,761	4,669	2,603	2,611	2,488	2,488	\$41.09
- Compact Discs	11,517	15,529	18,581	22,459	22,883	23,206	23,379	19,498	20,927	20,147	20,147	\$20.98
- DVDs	3,241	11,144	19,878	28,210	33,882	42,411	49,069	36,919	45,057	50,071	50,071	\$47.93
- Maps	1,875	1,877	1,919	861	898	400	-	-	-	-	-	\$3.11
- Microfiche	12,349	12,920	13,168	9,062	9,062	500	500	500	500	500	500	\$67.75
- Microfilms	3,154	3,408	3,445	3,487	3,513	2,727	433	445	457	457	457	\$250.00
- Newspapers	63	73	79	60	60	60	60	61	61	61	61	\$276.00
- Periodicals	891	1,153	1,242	1,051	942	942	942	1,070	1,072	1,072	1,072	\$81.43
- Videocassettes	19,682	19,725	15,985	12,596	9,677	6,702	3,859	990	990	265	265	\$22.84
- Videogames	-	-	-	25	328	815	1,139	1,308	1,911	2,079	2,079	\$53.18
- Electronic Resources	\$140,213	\$173,858	\$145,492	\$287,569	\$253,058	\$380,244	\$370,195	\$359,781	\$426,781	\$359,781	\$359,781	
Total (#)	566,666	676,899	650,261	701,755	703,943	732,594	725,445	655,626	654,993	731,855	731,855	
Total (\$000)	\$15,273.45	\$18,508.04	\$18,230.87	\$19,697.05	\$20,180.74	\$21,059.87	\$20,564.36	\$18,381.17	\$18,466.82	\$20,504.80	\$20,504.80	

Branch Name	Total Value of Furniture and Equipment (\$)											
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Automated Library Collection System	\$1,552,748	\$1,791,626	\$1,833,902	\$1,833,902	\$1,833,902	\$1,870,580	\$2,298,859	\$2,298,859	\$2,574,577	\$2,974,577	\$2,974,577	
Angus Glen Library - 3990 Major Mackenzie Drive East, Markham	\$0	\$607,345	\$680,454	\$824,586	\$824,586	\$841,078	\$841,078	\$841,078	\$841,483	\$841,483	\$841,483	
Markham Village Library - 6031 Hwy #7, Markham	\$925,576	\$654,445	\$202,913	\$216,866	\$707,000	\$721,140	\$721,140	\$721,140	\$722,319	\$722,319	\$722,319	
Milliken Mills Library - Unit 1, 7600 Kennedy Rd., Unionville	\$921,472	\$961,849	\$981,657	\$974,734	\$974,734	\$994,229	\$999,639	\$999,639	\$1,000,044	\$1,000,044	\$1,000,044	
Thornhill CC Library - 7755 Bayview Ave., Thornhill	\$1,077,841	\$1,019,289	\$938,751	\$948,874	\$948,874	\$967,851	\$967,851	\$968,558	\$1,015,323	\$1,015,323	\$1,015,323	
Thornhill Village Library - 10 Colbourne St., Thornhill	\$167,693	\$127,843	\$131,229	\$142,684	\$142,684	\$145,538	\$145,538	\$151,280	\$186,325	\$186,325	\$186,325	
Unionville Library - 15 Library Lane, Unionville	\$961,034	\$930,943	\$941,314	\$936,574	\$936,574	\$955,305	\$955,305	\$1,011,396	\$1,027,312	\$1,027,312	\$1,027,312	
Total (\$000)	\$5,606.4	\$6,293.3	\$5,710.2	\$5,878.2	\$6,368.4	\$6,495.7	\$6,929.4	\$6,992.0	\$7,367.4	\$7,767.4	\$7,767.4	

APPENDIX B.2
TABLE 1 - PAGE 3

CITY OF MARKHAM
CALCULATION OF SERVICE LEVELS
LIBRARY

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Historic Population	228,372	238,942	250,001	261,573	269,149	276,944	284,965	293,218	301,709	305,713
Historic Households	66,802	70,102	73,565	77,200	79,700	82,281	84,945	87,696	90,535	93,016
Total Population & Households	295,174	309,044	323,566	338,773	348,849	359,225	369,910	380,914	392,244	398,729

INVENTORY SUMMARY (\$000)

Buildings	\$26,796.1	\$38,884.0	\$38,884.0	\$38,884.0	\$44,154.2	\$44,154.2	\$44,154.2	\$44,154.2	\$44,469.0	\$44,469.0
Land	\$21,225.8	\$26,622.2	\$26,622.2	\$26,622.2	\$26,622.2	\$26,622.2	\$26,622.2	\$26,622.2	\$26,622.2	\$26,622.2
Materials	\$15,273.4	\$18,508.0	\$18,230.9	\$19,697.1	\$20,180.7	\$21,059.9	\$20,564.4	\$18,381.2	\$18,466.8	\$20,504.8
Fixtures, Furniture & Equipment	\$5,606.4	\$6,293.3	\$5,710.2	\$5,878.2	\$6,368.4	\$6,495.7	\$6,929.4	\$6,992.0	\$7,367.4	\$7,767.4
Total (\$000)	\$68,901.7	\$90,307.6	\$89,447.3	\$91,081.5	\$97,325.6	\$98,332.1	\$98,270.2	\$96,149.6	\$96,925.4	\$99,363.4

SERVICE LEVEL (\$/pop & HH)

	Average Service Level										
Buildings	\$90.78	\$125.82	\$120.17	\$114.78	\$126.57	\$122.92	\$119.36	\$115.92	\$113.37	\$111.53	\$116.12
Land	\$71.91	\$86.14	\$82.28	\$78.58	\$76.31	\$74.11	\$71.97	\$69.89	\$67.87	\$66.77	\$74.58
Materials	\$51.74	\$59.89	\$56.34	\$58.14	\$57.85	\$58.63	\$55.59	\$48.26	\$47.08	\$51.43	\$54.49
Fixtures, Furniture & Equipment	\$18.99	\$20.36	\$17.65	\$17.35	\$18.26	\$18.08	\$18.73	\$18.36	\$18.78	\$19.48	\$18.60
Total (\$/pop & HH)	\$233.43	\$292.22	\$276.44	\$268.96	\$278.99	\$273.73	\$265.66	\$252.42	\$247.10	\$249.20	\$263.81

CITY OF MARKHAM
CALCULATION OF MAXIMUM ALLOWABLE
LIBRARY

10-Year Funding Envelope Calculation	
10 Year Average Service Level 2003 - 2012	\$263.81
Net Population & Household Growth 2013 - 2022	78,800
Maximum Allowable Funding Envelope	\$20,788,105
Less: Uncommitted Excess Capacity	\$0
Less: 10% Legislated Reduction	\$2,078,810
Discounted Maximum Allowable Funding Envelope	\$18,709,294

Excess Capacity Calculation	
Total Value of Inventory in 2012	\$99,363,397
Inventory Using Average Service Level	\$105,188,781
Excess Capacity	\$0
Excess Capacity:	Uncommitted



CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
LIBRARY

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs		Post 2022
					Replacement & BTE Shares	10% Reduction			2013-2022	2022	
2.0 LIBRARY											
2.1 Recovery of Negative Reserve Fund Balance											
2.1.1 Balance as at December 31, 2012	2013	\$ 3,129,619	\$ -	\$ 3,129,619	\$ -	\$ -	\$ 3,129,619	\$ -	\$ 3,129,619	\$ -	\$ -
Subtotal Recovery of Negative Reserve Fund Balance		\$ 3,129,619	\$ -	\$ 3,129,619	\$ -	\$ -	\$ 3,129,619	\$ -	\$ 3,129,619	\$ -	\$ -
2.2 Buildings, Land & Furnishings											
2.2.1 South East Markham (20,000 sf)	2014	\$ 9,705,785	\$ -	\$ 9,705,785	\$ -	\$ 970,579	\$ 8,735,207	\$ -	\$ 8,735,207	\$ -	\$ -
2.2.2 Library Expansion (13,000 sf)	2016	\$ 5,200,000	\$ -	\$ 5,200,000	\$ -	\$ 520,000	\$ 4,680,000	\$ -	\$ 4,680,000	\$ -	\$ 2,473,255
Subtotal Buildings, Land & Furnishings		\$ 14,905,785	\$ -	\$ 14,905,785	\$ -	\$ 1,490,579	\$ 13,415,207	\$ -	\$ 13,415,207	\$ -	\$ 2,473,255
2.3 Library Land											
2.3.1 South East Markham	2014	\$ 867,769	\$ -	\$ 867,769	\$ -	\$ 86,777	\$ 780,992	\$ -	\$ 780,992	\$ -	\$ -
Subtotal Library Land		\$ 867,769	\$ -	\$ 867,769	\$ -	\$ 86,777	\$ 780,992	\$ -	\$ 780,992	\$ -	\$ -
2.4 Library Furniture & Equipment											
2.4.1 South East Markham	2014	\$ 1,294,215	\$ -	\$ 1,294,215	\$ -	\$ 129,421	\$ 1,164,793	\$ -	\$ 1,164,793	\$ -	\$ -
2.4.2 Library Expansion	2016	\$ 421,607	\$ -	\$ 421,607	\$ -	\$ 42,161	\$ 379,446	\$ -	\$ 379,446	\$ -	\$ 379,446
Subtotal Library Furniture & Equipment		\$ 1,715,822	\$ -	\$ 1,715,822	\$ -	\$ 171,582	\$ 1,544,240	\$ -	\$ 1,544,240	\$ -	\$ 379,446
2.5 Library Collection Materials											
2.5.1 South East Markham	2014	\$ 2,991,043	\$ -	\$ 2,991,043	\$ -	\$ 299,104	\$ 2,691,939	\$ -	\$ 2,691,939	\$ -	\$ -
2.5.2 Library Expansion	2016	\$ 1,979,527	\$ -	\$ 1,979,527	\$ -	\$ 197,953	\$ 1,781,574	\$ -	\$ 1,781,574	\$ -	\$ 1,781,574
Subtotal Library Collection Materials		\$ 4,970,570	\$ -	\$ 4,970,570	\$ -	\$ 497,057	\$ 4,473,513	\$ -	\$ 4,473,513	\$ -	\$ 1,781,574
TOTAL LIBRARY		\$ 25,589,564	\$ -	\$ 25,589,564	\$ -	\$ 2,245,995	\$ 23,343,570	\$ -	\$ 23,343,570	\$ 18,709,294	\$ 4,634,275

Note: The remaining costs for Cornell Community Centre and Library are included in the negative reserve fund balance.

Residential Development Charge Calculation		
Residential Share of 2013 - 2022 DC Eligible Costs	100%	\$ 18,709,294
10-Year Growth in Population in New Units		67,212
Unadjusted Development Charge Per Capita		\$278.36
Non-Residential Development Charge Calculation		
Non-Residential Share of 2013 - 2022 DC Eligible Costs	0%	\$0
10-Year Growth in Square Metres		2,553,322
Unadjusted Development Charge Per Square Metre		\$0.00

2013 - 2022 Net Funding Envelope	\$ 18,709,294
Reserve Fund Balance	(\$3,129,619)

APPENDIX B.2
TABLE 3

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

LIBRARY	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
OPENING CASH BALANCE	\$0.0	(\$581.4)	(\$11,918.8)	(\$10,157.7)	(\$10,593.6)	(\$8,922.6)	(\$7,232.0)	(\$5,514.1)	(\$3,761.0)	(\$1,963.7)	
2013 - 2022 RESIDENTIAL FUNDING REQUIREMENTS											
- Library Services: Non Inflated	\$3,129.6	\$13,372.9	\$0.0	\$2,206.7	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$18,709.3
- Library Services: Inflated	\$3,129.6	\$13,640.4	\$0.0	\$2,341.8	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$19,111.8
NEW RESIDENTIAL DEVELOPMENT											
- Population Growth in New Units	8,312	8,383	7,401	7,523	6,634	6,295	5,986	5,704	5,450	5,524	67,212
REVENUE											
- DC Receipts: Inflated	\$2,563.8	\$2,637.5	\$2,375.1	\$2,462.5	\$2,214.9	\$2,143.8	\$2,079.3	\$2,021.0	\$1,969.6	\$2,036.3	\$22,503.8
INTEREST											
- Interest on Opening Balance	\$0.0	(\$32.0)	(\$655.5)	(\$558.7)	(\$582.6)	(\$490.7)	(\$397.8)	(\$303.3)	(\$206.9)	(\$108.0)	(\$3,335.5)
- Interest on In-year Transactions	(\$15.6)	(\$302.6)	\$41.6	\$2.1	\$38.8	\$37.5	\$36.4	\$35.4	\$34.5	\$35.6	(\$56.3)
TOTAL REVENUE	\$2,548.2	\$2,302.9	\$1,761.1	\$1,905.9	\$1,671.0	\$1,690.6	\$1,717.9	\$1,753.1	\$1,797.2	\$1,963.9	\$19,112.0
CLOSING CASH BALANCE	(\$581.4)	(\$11,918.8)	(\$10,157.7)	(\$10,593.6)	(\$8,922.6)	(\$7,232.0)	(\$5,514.1)	(\$3,761.0)	(\$1,963.7)	\$0.2	

2013 Adjusted Charge Per Capita **\$308.45**

Allocation of Capital Program		
Residential Sector		100.0%
Non-Residential Sector		0.0%
Rates for 2013		
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 1 2003-2012 HISTORIC SERVICE LEVELS

The Fire Services' current inventory of capital assets includes nine fire stations and one training centre. The combined area of the stations is 90,239 square feet and the buildings are valued at \$32.49 million. The land area associated with the buildings is roughly 4.71 hectares and is valued at \$21.17 million. The 49 vehicles associated with the stations have a replacement value of \$13.35 million. Finally, personal firefighting equipment, communications equipment, and other station equipment add another \$10.66 million to value of the inventory.

The current replacement value of the Fire Services capital infrastructure is \$77.67 million. It has provided the City with a ten year average service level of \$275.03 per household & employment. The calculated maximum allowable recoverable through development charges over the 2013 to 2022 planning period is \$22.52 million (81,878 household and employment growth X historic service level of \$275.03/household & employment).

Through discussion with City staff, a review of current facilities, and past funding commitments it has been calculated that Fire Services has committed excess capacity equivalent to \$6.40 million. This amount is related to forecast development over the 2013-2022 period and is eligible for DC funding as part of the calculated maximum funding envelope.

**TABLE 2 2013 – 2022 DEVELOPMENT-RELATED CAPITAL PROGRAM &
CALCULATION OF THE UNADJUSTED DEVELOPMENT CHARGE**

The first project in the fire services capital program is for the recovery of the negative reserve fund balance. The negative reserve fund balance relates to the committed excess capacity as discussed in the previous section. The negative DC reserve fund

balance for fire services amounts to \$2.44 million and this full amount is brought forward for recovery through development charges.

The Fire Services capital program recovers for two new fire stations. The first station, slated to open in 2016, requires the purchase of land for \$4.2 million. The construction cost of the building will be \$9.0 million, and \$388,900 is required in furniture and equipment for the new station. The second new fire station, slated to open the following year in 2017, requires a land purchase for \$840,000, the construction of the new station to cost \$3.6 million, and furnishings for \$388,900. A crew of 21 new fire fighters will be needed to operated the new station and equipment for these firefighter amount to \$130,557. 20 new firefighters will also be added to an existing station at a cost of \$124,340 for their equipment. Lastly, six new fire vehicles will be added to the fleet at a cost of \$2.08 million, the mostly costly vehicle being an addition of an aerial.

In summary, the ten-year capital program for Fire Services amounts to \$23.19 million. No grants, replacement shares or 10 per cent discount is identified for this service's capital program and as such, the entire program is deemed to be DC eligible. However, a share of this program cannot be recovered through this by-law. A share in the amount of \$669,443 is deemed to be of post-period benefit and it will be examined for recovery in the next DC By-law update, subject to service level restrictions.

The remaining \$22.52 million is related to growth between 2013 and 2022. The ten-year development-related net capital cost is allocated 54 per cent, or \$12.16 million, against residential development, and 46 per cent, or \$10.36 million, against non-residential development. The allocation between residential and non-residential development is based on shares of forecasted growth. The resulting unadjusted development charge is \$180.88 per capita and \$4.06 per square metre.

TABLE 3 CASH FLOW ANALYSIS

After cash flow consideration, the residential charge increases to \$192.22 per capita and the non-residential charge increases to \$4.33 per square metre. The increase reflects the front-ended nature of the capital program.

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

FIRE SERVICES SUMMARY						
10-year Hist.	2013 - 2022		Unadjusted		Adjusted	
Service Level	Development-Related Capital Program		Development Charge		Development Charge	
per HH & emp	Total	Net DC Recoverable	\$/capita	\$/sq.m	\$/capita	\$/sq.m
\$275.03	\$23,188,463	\$22,519,020	\$180.88	\$4.06	\$192.22	\$4.33

APPENDIX B.3
TABLE 1 - PAGE 1

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
FIRE SERVICES

BUILDINGS Station Name	# of Square Feet										UNIT COST (\$/sq. ft.)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
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	5,531	\$360
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	8,348	\$360
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	\$360
Firehall 93 - Cathedral	-	-	-	-	-	-	-	-	9,990	9,990	9,990	\$360
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	7,142	\$360
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	11,846	\$360
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	8,933	\$360
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	7,669	\$360
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	\$360
Firehall 99 - Bur Oak (Cornell)	-	-	-	-	-	-	-	-	-	-	9,990	\$360
Total (sq.ft.)	49,469	60,269	70,259	70,259	70,259	70,259	70,259	80,249	80,249	80,249	90,239	
Total (\$000)	\$17,808.8	\$21,696.8	\$25,293.2	\$25,293.2	\$25,293.2	\$25,293.2	\$25,293.2	\$28,889.6	\$28,889.6	\$28,889.6	\$32,486.0	

LAND Station Name	# of Hectares										UNIT COST (\$/ha)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
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	0.41	\$4,497,000
Fire Training Centre - 436 John Street, Thornhill	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	\$4,497,000
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	0.33	\$4,497,000
Firehall 93 - Cathedral	-	-	-	-	-	-	-	-	0.40	0.40	0.40	\$4,497,000
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	0.42	\$4,497,000
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	0.37	\$4,497,000
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	0.32	\$4,497,000
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	0.68	\$4,497,000
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	\$4,497,000
Firehall 99 - Bur Oak (Cornell)	-	-	-	-	-	-	-	-	-	0.67	0.67	\$4,497,000
Total (ha)	2.97	3.64	3.64	3.64	3.64	3.64	4.04	4.04	4.71	4.71	4.71	
Total (\$000)	\$13,356.1	\$16,369.1	\$16,378.1	\$16,378.1	\$16,378.1	\$16,378.1	\$18,161.5	\$18,161.5	\$21,174.5	\$21,174.5	\$21,174.5	

APPENDIX B.3
TABLE 1 - PAGE 2

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
FIRE SERVICES

VEHICLES Vehicle Type	# of Vehicles												UNIT COST (\$/vehicle)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012				
Aerial Truck	2	2	2	2	2	2	2	2	2	2	2	2	3	\$1,200,000
Command Trailer	1	1	1	1	1	1	1	1	1	1	1	1	1	\$137,000
Flashover Simulator	1	1	1	1	1	1	1	1	1	1	1	1	1	\$68,500
Incident Command Simulator (Smokehouse)	1	1	1	1	1	1	1	1	1	1	1	1	1	\$47,500
Mechanical Vehicles	2	2	2	2	2	2	2	2	2	2	2	2	2	\$24,200
Personnel/ Rehabilitation	1	1	1	1	1	1	1	1	1	1	1	1	1	\$119,900
Platoon Chief Vehicle	1	1	1	1	1	1	1	1	1	1	1	1	1	\$100,100
Propane Simulator Props	1	1	1	1	1	1	2	2	2	2	2	2	2	\$36,600
Pumpers	7	7	9	9	9	9	9	10	11	11	11	12	12	\$650,000
Tankers	1	1	1	1	1	1	1	1	1	1	1	1	1	\$445,200
Telesquirts	2	1	1	1	1	1	1	1	1	1	1	1	-	\$924,600
Training Vehicles	2	2	2	2	2	2	4	4	4	4	4	4	4	\$26,900
Fire Prevention Cars	9	9	11	11	11	13	13	13	13	13	13	13	13	\$18,565
Deputy Fire Chief Vehicle	-	-	-	2	2	2	2	2	2	2	2	2	2	\$40,300
District Chief Vehicle	-	-	-	1	1	1	1	1	1	1	1	1	1	\$99,700
Supply Van	-	-	-	-	-	-	-	-	-	-	-	-	-	\$37,700
Fire Chief	1	1	1	1	1	1	1	1	1	1	1	1	1	\$36,400
Air Light Truck	-	-	-	-	-	-	-	-	-	-	-	-	-	\$295,000
Hazmat Trailer	-	-	-	-	-	-	-	-	-	-	-	-	-	\$14,000
Total (#)	32	31	35	38	38	38	44	46	48	48	48	48	49	
Total (\$000)	\$10,059.7	\$9,135.1	\$10,472.2	\$10,652.5	\$10,652.5	\$10,817.7	\$10,817.7	\$11,762.7	\$12,426.7	\$12,426.7	\$12,426.7	\$12,426.7	\$13,352.1	

APPENDIX B.3
TABLE 1 - PAGE 3

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
FIRE SERVICES

FURNITURE & EQUIPMENT Description	Total Value of Furniture & Equipment (\$)												UNIT COST (\$/outfit)		
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2012	2012			
Dispatch Centre	\$1,623,649	\$1,623,649	\$1,623,649	\$1,623,649	\$1,623,649	\$1,623,649	\$1,623,649	\$1,623,649	\$1,623,649	\$1,623,649	\$1,623,649	\$1,623,649	\$1,623,649	\$1,623,649	\$1,623,649
Equipment for vehicles	\$2,714,800	\$2,938,589	\$3,138,589	\$3,138,589	\$3,138,589	\$3,138,589	\$3,238,589	\$3,338,589	\$3,338,589	\$3,338,589	\$3,338,589	\$3,338,589	\$3,338,589	\$3,338,589	\$3,538,589
Other Vehicle Equipment	\$306,004	\$306,004	\$306,004	\$306,004	\$306,004	\$306,004	\$306,004	\$306,004	\$306,004	\$306,004	\$306,004	\$306,004	\$306,004	\$306,004	\$356,004
Fire Training Centre	\$0	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Station 91	\$333,920	\$333,920	\$333,920	\$333,920	\$333,920	\$333,920	\$333,920	\$333,920	\$333,920	\$333,920	\$333,920	\$333,920	\$333,920	\$333,920	\$333,920
Station 92	\$0	\$432,000	\$432,000	\$432,000	\$432,000	\$432,000	\$432,000	\$432,000	\$432,000	\$432,000	\$432,000	\$432,000	\$432,000	\$432,000	\$432,000
Station 93	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$399,600
Station 94	\$285,680	\$285,680	\$285,680	\$285,680	\$285,680	\$285,680	\$285,680	\$285,680	\$285,680	\$285,680	\$285,680	\$285,680	\$285,680	\$285,680	\$285,680
Station 95	\$473,840	\$473,840	\$473,840	\$473,840	\$473,840	\$473,840	\$473,840	\$473,840	\$473,840	\$473,840	\$473,840	\$473,840	\$473,840	\$473,840	\$473,840
Station 96	\$357,320	\$357,320	\$357,320	\$357,320	\$357,320	\$357,320	\$357,320	\$357,320	\$357,320	\$357,320	\$357,320	\$357,320	\$357,320	\$357,320	\$357,320
Station 97	\$306,760	\$306,760	\$306,760	\$306,760	\$306,760	\$306,760	\$306,760	\$306,760	\$306,760	\$306,760	\$306,760	\$306,760	\$306,760	\$306,760	\$306,760
Station 98	\$0	\$0	\$399,600	\$399,600	\$399,600	\$399,600	\$399,600	\$399,600	\$399,600	\$399,600	\$399,600	\$399,600	\$399,600	\$399,600	\$399,600
Station 99	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$399,600
Number of Firefighters	176	204	230	234	230	230	231	231	231	231	231	258	278	278	278
Total (\$000)	\$7,496.2	\$8,351.0	\$9,112.3	\$9,137.1	\$9,112.3	\$9,112.3	\$9,218.5	\$9,118.5	\$9,218.5	\$9,935.9	\$10,060.3	\$10,659.9	\$10,659.9	\$10,659.9	\$10,659.9

CITY OF MARKHAM
CALCULATION OF SERVICE LEVELS
FIRE SERVICES

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Historic Households	66,802	70,102	73,565	77,200	79,700	82,281	84,945	87,696	90,535	93,016
Historic Employment	133,921	137,557	141,192	144,828	147,799	150,770	153,741	156,712	159,683	166,125
Historic Households & Employment	200,723	207,659	214,757	222,028	227,499	233,051	238,686	244,408	250,218	259,141

INVENTORY SUMMARY (\$000)

Buildings	\$17,808.8	\$21,696.8	\$25,293.2	\$25,293.2	\$25,293.2	\$25,293.2	\$25,293.2	\$28,889.6	\$28,889.6	\$32,486.0
Land	\$13,356.1	\$16,369.1	\$16,378.1	\$16,378.1	\$16,378.1	\$16,378.1	\$18,161.5	\$18,161.5	\$21,174.5	\$21,174.5
Furniture & Equipment	\$7,496.2	\$8,351.0	\$9,112.3	\$9,137.1	\$9,112.3	\$9,118.5	\$9,218.5	\$9,935.9	\$10,060.3	\$10,659.9
Vehicles	\$10,059.7	\$9,135.1	\$10,472.2	\$10,652.5	\$10,652.5	\$10,817.7	\$11,762.7	\$12,426.7	\$12,426.7	\$13,352.1
Total (\$000)	\$48,720.8	\$55,552.0	\$61,255.8	\$61,461.0	\$61,436.1	\$61,607.5	\$64,436.0	\$69,413.9	\$72,551.2	\$77,672.6

SERVICE LEVEL (\$/household & employment)

Buildings	\$88.72	\$104.48	\$117.78	\$113.92	\$111.18	\$108.53	\$105.97	\$118.20	\$115.46	\$125.36
Land	\$66.54	\$78.83	\$76.26	\$73.77	\$71.99	\$70.28	\$76.09	\$74.31	\$84.62	\$81.71
Furniture & Equipment	\$37.35	\$40.22	\$42.43	\$41.15	\$40.05	\$39.13	\$38.62	\$40.65	\$40.21	\$41.14
Vehicles	\$50.12	\$43.99	\$48.76	\$47.98	\$46.82	\$46.42	\$49.28	\$50.84	\$49.66	\$51.52
Total (\$/household & employment)	\$242.73	\$267.52	\$285.23	\$276.82	\$270.05	\$264.35	\$269.96	\$284.01	\$289.95	\$299.73
									Average Service Level	
										\$110.96
										\$75.44
										\$40.09
										\$48.54
										\$275.03

CITY OF MARKHAM
CALCULATION OF MAXIMUM ALLOWABLE
FIRE SERVICES

10-Year Funding Envelope Calculation	
10 Year Average Service Level 2003 - 2012	\$275.03
Household and Employment Growth 2013 - 2022	81,878
Maximum Allowable Funding Envelope	\$22,519,020
Less: Uncommitted Excess Capacity	\$0
Discounted Maximum Allowable Funding Envelope	\$22,519,020

Excess Capacity Calculation	
Total Value of Inventory in 2012	\$77,672,608
Inventory Using Average Service Level	\$71,271,645
Excess Capacity	\$6,400,962
Excess Capacity:	Committed

APPENDIX B.3
TABLE 2 - PAGE 1

CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
FIRE SERVICES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs	
					Replacement & BTE Shares	0% Reduction			2013-2022	Post 2022
3.0 FIRE SERVICES										
3.1 Recovery of Negative Reserve Fund Balance										
3.1.1 Balance as at December 31, 2012	2013	\$ 2,440,766	\$ -	\$ 2,440,766	\$ -	\$ -	\$ 2,440,766	\$ -	\$ 2,440,766	\$ -
Subtotal Recovery of Negative Reserve Fund Balance		\$ 2,440,766	\$ -	\$ 2,440,766	\$ -	\$ -	\$ 2,440,766	\$ -	\$ 2,440,766	\$ -
3.2 Fire Buildings										
3.2.1 New Facility	2016	\$ 9,000,000	\$ -	\$ 9,000,000	\$ -	\$ -	\$ 9,000,000	\$ -	\$ 9,000,000	\$ -
3.2.2 New Fire Station (10,000 sf)	2017	\$ 3,600,000	\$ -	\$ 3,600,000	\$ -	\$ -	\$ 3,600,000	\$ -	\$ 3,600,000	\$ -
Subtotal Fire Buildings		\$ 12,600,000	\$ -	\$ 12,600,000	\$ -	\$ -	\$ 12,600,000	\$ -	\$ 12,600,000	\$ -
3.3 Land for Fire Buildings										
3.3.1 New Facility (2 ha)	2014	\$ 4,200,000	\$ -	\$ 4,200,000	\$ -	\$ -	\$ 4,200,000	\$ -	\$ 4,200,000	\$ -
3.3.2 New Fire Station (0.4 ha)	2016	\$ 840,000	\$ -	\$ 840,000	\$ -	\$ -	\$ 840,000	\$ -	\$ 840,000	\$ -
Subtotal Land for Fire Buildings		\$ 5,040,000	\$ -	\$ 5,040,000	\$ -	\$ -	\$ 5,040,000	\$ -	\$ 5,040,000	\$ -
3.4 Furniture and Equipment										
3.4.1 New Facility	2016	\$ 388,900	\$ -	\$ 388,900	\$ -	\$ -	\$ 388,900	\$ -	\$ 388,900	\$ -
3.4.2 New Fire Station	2017	\$ 388,900	\$ -	\$ 388,900	\$ -	\$ -	\$ 388,900	\$ -	\$ 388,900	\$ -
Subtotal Land for Fire Buildings		\$ 777,800	\$ -	\$ 777,800	\$ -	\$ -	\$ 777,800	\$ -	\$ 777,800	\$ -
3.5 Firefighter Equipment										
3.5.1 2nd. Crew in existing station (20 firefighters)	2014	\$ 124,340	\$ -	\$ 124,340	\$ -	\$ -	\$ 124,340	\$ -	\$ 124,340	\$ -
3.5.2 New Fire Station - (21 firefighters)	2017	\$ 130,557	\$ -	\$ 130,557	\$ -	\$ -	\$ 130,557	\$ -	\$ 130,557	\$ -
Subtotal Firefighter Equipment		\$ 254,897	\$ -	\$ 254,897	\$ -	\$ -	\$ 254,897	\$ -	\$ 254,897	\$ -

CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
FIRE SERVICES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		Post 2022
					Replacement & BTE Shares	0% Reduction		Available DC Reserves	2013-2022	
3.0 FIRE SERVICES										
3.6 Fire Vehicles										
3.6.1 1 Aerial for 2nd. Crew in station	2013	\$ 1,200,000	-	\$ 1,200,000	\$ -	\$ -	\$ 1,200,000	\$ -	\$ 1,200,000	\$ -
3.6.2 1 Fire Prevention Car	2013	\$ 25,000	-	\$ 25,000	\$ -	\$ -	\$ 25,000	\$ -	\$ 25,000	\$ -
3.6.3 1 Fire Prevention Car - Deputy Chief (Highlander)	2015	\$ 50,000	-	\$ 50,000	\$ -	\$ -	\$ 50,000	\$ -	\$ 50,000	\$ -
3.6.4 1 Fire Prevention Car	2015	\$ 25,000	-	\$ 25,000	\$ -	\$ -	\$ 25,000	\$ -	\$ 25,000	\$ -
3.6.5 1 Pumper Truck	2017	\$ 750,000	-	\$ 750,000	\$ -	\$ -	\$ 750,000	\$ -	\$ 750,000	\$ 644,443
3.6.6 1 Fire Prevention Car	2017	\$ 25,000	-	\$ 25,000	\$ -	\$ -	\$ 25,000	\$ -	\$ 105,557	\$ 25,000
Subtotal Fire Vehicles		\$ 2,075,000	-	\$ 2,075,000	\$ -	\$ -	\$ 2,075,000	\$ -	\$ 1,405,557	\$ 669,443
TOTAL FIRE SERVICES		\$ 23,188,463	\$ -	\$ 23,188,463	\$ -	\$ -	\$ 23,188,463	\$ -	\$ 22,519,020	\$ 669,443

Residential Development Charge Calculation	
Residential Share of 2013 - 2022 DC Eligible Costs	54%
10-Year Growth in Population in New Units	\$12,157,523
Unadjusted Development Charge Per Capita	\$67,212
	\$180.88
Non-Residential Development Charge Calculation	
Non-Residential Share of 2013 - 2022 DC Eligible Costs	46%
10-Year Growth in Square Metres	\$10,361,497
Unadjusted Development Charge Per Square Metre	\$2,553,322
	\$4.06

2013 - 2022 Net Funding Envelope	\$22,519,020
Reserve Fund Balance	(\$2,440,766)

APPENDIX B.3
TABLE 3 - PAGE 1

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

FIRE SERVICES	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
OPENING CASH BALANCE	\$0.0	(\$391.9)	(\$1,171.4)	\$227.3	(\$4,209.5)	(\$5,559.6)	(\$4,506.0)	(\$3,435.4)	(\$2,342.9)	(\$1,222.9)	
2013 - 2022 RESIDENTIAL FUNDING REQUIREMENTS											
- Fire Services: Non Inflated	\$1,979.1	\$2,334.6	\$40.5	\$5,522.4	\$2,281.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$12,157.5
- Fire Services: Inflated	\$1,979.1	\$2,381.3	\$42.1	\$5,860.4	\$2,469.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$12,731.9
NEW RESIDENTIAL DEVELOPMENT											
- Population Growth in New Units	8,312	8,383	7,401	7,523	6,634	6,295	5,986	5,704	5,450	5,524	67,212
REVENUE											
- DC Receipts: Inflated	\$1,597.7	\$1,643.6	\$1,480.1	\$1,534.6	\$1,380.3	\$1,336.0	\$1,295.8	\$1,259.4	\$1,227.4	\$1,269.0	\$14,023.9
INTEREST											
- Interest on Opening Balance	\$0.0	(\$21.6)	(\$64.4)	\$8.0	(\$231.5)	(\$305.8)	(\$247.8)	(\$188.9)	(\$128.9)	(\$67.3)	(\$1,248.2)
- Interest on In-year Transactions	(\$10.5)	(\$20.3)	\$25.2	(\$119.0)	(\$29.9)	\$23.4	\$22.7	\$22.0	\$21.5	\$22.2	(\$42.7)
TOTAL REVENUE	\$1,587.2	\$1,601.8	\$1,440.8	\$1,423.6	\$1,118.8	\$1,053.6	\$1,070.6	\$1,092.5	\$1,120.0	\$1,223.9	\$12,733.0
CLOSING CASH BALANCE	(\$391.9)	(\$1,171.4)	\$227.3	(\$4,209.5)	(\$5,559.6)	(\$4,506.0)	(\$3,435.4)	(\$2,342.9)	(\$1,222.9)	\$1.1	

2013 Adjusted Charge Per Capita **\$192.22**

Allocation of Capital Program	
Residential Sector	54.0%
Non-Residential Sector	46.0%
Rates for 2013	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



APPENDIX B.3
TABLE 3 - PAGE 2

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

FIRE SERVICES	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
OPENING CASH BALANCE	\$0.00	(\$515.39)	(\$1,387.03)	(\$245.37)	(\$4,098.65)	(\$5,152.42)	(\$4,088.53)	(\$2,939.17)	(\$1,699.11)	(\$362.88)	
2013 - 2022 NON-RESIDENTIAL FUNDING REQUIREMENTS											
- Fire Services: Non Inflated	\$1,686.7	\$1,989.7	\$34.5	\$4,706.5	\$1,944.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$10,361.5
- Fire Services: Inflated	\$1,686.7	\$2,029.5	\$35.9	\$4,994.6	\$2,104.3	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$10,851.0
NEW NON-RESIDENTIAL DEVELOPMENT											
- Growth in Square Metres	273,687	273,687	273,687	273,687	276,968	276,968	276,968	276,968	276,968	73,734	2,553,322
REVENUE											
- DC Receipts: Inflated	\$1,185.1	\$1,208.8	\$1,232.9	\$1,257.6	\$1,298.1	\$1,324.1	\$1,350.6	\$1,377.6	\$1,405.1	\$381.6	\$12,021.5
INTEREST											
- Interest on Opening Balance	\$0.0	(\$28.3)	(\$76.3)	(\$13.5)	(\$225.4)	(\$283.4)	(\$224.9)	(\$161.7)	(\$93.5)	(\$20.0)	(\$1,126.9)
- Interest on In-year Transactions	(\$13.8)	(\$22.6)	\$20.9	(\$102.8)	(\$22.2)	\$23.2	\$23.6	\$24.1	\$24.6	\$6.7	(\$38.2)
TOTAL REVENUE	\$1,171.3	\$1,157.9	\$1,177.6	\$1,141.3	\$1,050.5	\$1,063.9	\$1,149.4	\$1,240.1	\$1,336.2	\$368.3	\$10,856.5
CLOSING CASH BALANCE	(\$515.4)	(\$1,387.0)	(\$245.4)	(\$4,098.7)	(\$5,152.4)	(\$4,088.5)	(\$2,939.2)	(\$1,699.1)	(\$362.9)	\$5.4	

2013 Adjusted Charge Per Square Metre \$4.33

Allocation of Capital Program	
Residential Sector	54.0%
Non-Residential Sector	46.0%
Rates for 2013	
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 1 2003-2012 HISTORIC SERVICE LEVELS

Table 1 displays the Indoor Recreation ten-year historic 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, includes almost 855,000 square feet of Indoor Recreation space, which is valued at \$278.29 million. The land associated with the buildings amount to 37.52 hectares, and is valued at \$168.73 million. The equipment found in the facilities has a total value of \$5.82 million.

The 2012 full replacement value of the inventory of capital assets for Indoor Recreation amounts to \$452.84 million and the ten-year historic average service level is \$1,248.85 per capita and household.

The historic service level multiplied by the ten-year forecast of net population and household growth results in a ten-year maximum allowable funding envelope of \$98.41 million (78,800 net population and household growth X historic service level of \$1,248.85/capita and household). No excess capacity has been identified for this service.

Indoor Recreation must be reduced by ten per cent as required under the DCA. The resulting net maximum allowable funding envelope brought forward to the development charges calculation is reduced to \$88.57 million.

**TABLE 2 2013 – 2022 DEVELOPMENT-RELATED CAPITAL PROGRAM &
CALCULATION OF THE UNADJUSTED DEVELOPMENT CHARGE**

The first project in the Indoor Recreation capital program is for the recovery of the negative reserve fund balance. The negative DC reserve fund balance for Indoor Recreation amounts to \$2.52 million. This amount has not been reduced by 10%, as this reduction was made in prior DC by-laws.

The Indoor Recreation capital program recovers for the Markham Pan Am Centre, which is a 147,000 square foot facility. Land acquisition was required for this project at a cost of \$10.5 million. The construction of the building amounts to \$78.52 million, however, \$31.92 million has been identified as a government grant available to fund the construction cost of the Pan Am Centre. The second project in this capital program is the South East Markham Community Centre, a 101,000 square foot building. Land acquisition at a cost of \$4.38 million is required for this community centre. The actual cost of constructing the community centre is \$49.01 million. Fixtures, furniture and equipment add another \$6.54 million to the project cost.

In total, the Indoor Recreation capital program is \$151.47 million. The \$31.92 million grant identified to fund the Pan Am Centre nets down the total program to a net municipal cost of \$119.54 million. No replacement or benefit to existing shares have been identified for this service. The ten per cent reduction shares amount to \$11.70 million and will have to be funded from non-DC sources. Another portion of the program is deemed to benefit development beyond 2022, and \$19.27 million will be examined for recovery in subsequent DC studies, subject to service level restrictions.

The 2013-2012 DC costs eligible for recovery amount to \$88.57 million which is allocated entirely against future residential development in the City of Markham. This results in an unadjusted development charge of \$1,317.74 per capita.

TABLE 3 CASH FLOW AND RESERVE FUND ANALYSIS

After cash flow consideration, the residential calculated charge increases to \$1,495.19 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:

INDOOR RECREATION SUMMARY						
10-year Hist.	2013 - 2022		Unadjusted		Adjusted	
Service Level	Development-Related Capital Program		Development Charge		Development Charge	
per pop & HH	Total	Net DC Recoverable	\$/capita	\$/sq.m	\$/capita	\$/sq.m
\$1,248.85	\$151,469,170	\$88,567,917	\$1,317.74	\$0.00	\$1,495.19	\$0.00

APPENDIX B.4
TABLE 1 - PAGE 1

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION

Facility Name	# of Square Feet												UNIT COST (\$/sq. ft.)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012				
Angus Glen Community Centre	-	12,498	12,498	12,498	12,498	12,498	12,498	12,498	12,498	12,498	12,498	12,498	12,498	\$407
Armada Community Centre	5,460	5,460	5,460	5,460	5,460	5,460	5,460	5,460	5,460	5,460	5,460	5,460	5,460	\$195
Box Grove Community Centre	5,920	5,920	5,920	5,920	5,920	5,920	5,920	5,920	5,920	5,920	5,920	5,920	5,920	\$174
Buttonville Women's Institute	5,360	5,360	5,360	5,360	5,360	5,360	5,360	5,360	5,360	5,360	5,360	5,360	5,360	\$174
Cedar Grove Community Centre	3,562	3,562	3,562	3,562	3,562	3,562	3,562	3,562	3,562	3,562	3,562	3,562	3,562	\$174
Centennial Community Centre	6,188	6,188	6,188	6,188	6,188	6,188	6,188	6,188	6,188	6,188	6,188	6,188	6,188	\$407
Crosby Memorial Community Centre	5,521	5,521	5,521	5,521	5,521	5,521	5,521	5,521	5,521	5,521	5,521	5,521	5,521	\$195
German Mills Community Centre	1,983	1,983	1,983	1,983	1,983	1,983	1,983	1,983	1,983	1,983	1,983	1,983	1,983	\$239
Heintzman House	14,266	14,266	14,266	14,266	14,266	14,266	14,266	14,266	14,266	14,266	14,266	14,266	14,266	\$380
Rouge River Community Centre	12,160	12,160	12,160	12,160	12,160	12,160	12,160	12,160	12,160	12,160	12,160	12,160	12,160	\$250
Markham Community Centre	6,568	6,568	6,568	6,568	6,568	6,568	6,568	6,568	6,568	6,568	6,568	6,568	6,568	\$195
Markham Train Station	2,262	2,262	2,262	2,262	2,262	2,262	2,262	2,262	2,262	2,262	2,262	2,262	2,262	\$326
Museum Education Building	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	\$261
McKay House	3,116	3,116	3,116	3,116	3,116	3,116	3,116	3,116	3,116	3,116	3,116	3,116	3,116	\$182
Milliken Mills Community Centre	9,956	9,956	9,956	9,956	9,956	9,956	9,956	9,956	9,956	9,956	9,956	9,956	9,956	\$407
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	3,369	3,369	3,369	\$174
Thorntown Community Centre	16,158	16,158	16,158	16,158	16,158	16,158	16,158	16,158	16,158	16,158	16,158	16,158	16,158	\$407
Unionville Train Station	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	\$326
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	1,695	1,695	1,695	\$326
Victoria Square Community Centre	8,774	8,774	8,774	8,774	8,774	8,774	8,774	8,774	8,774	8,774	8,774	8,774	8,774	\$174
Warden House	5,296	5,296	5,296	5,296	5,296	5,296	5,296	5,296	5,296	5,296	5,296	5,296	5,296	\$326
YMCA	-	-	-	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	\$376
Total (sq.ft.)	120,295	132,793	132,793	152,793	152,793	152,793	155,778	155,778	160,428	160,428	160,428	160,428	160,428	
Total (\$000)	\$34,567.9	\$39,654.6	\$39,654.6	\$47,165.1	\$47,165.1	\$47,165.1	\$48,380.0	\$48,380.0	\$50,272.5	\$50,272.5	\$50,272.5	\$50,272.5	\$50,272.5	

APPENDIX B.4
TABLE 1 - PAGE 2

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION

ICE PADS Facility Name	# of Square Feet											UNIT COST (\$/ha)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Angus Glen Community Centre	65,259	69,126	69,126	69,126	69,126	69,126	69,126	69,126	69,126	69,126	69,126	\$407
Centennial Community Centre	45,187	45,187	45,187	45,187	45,187	45,187	45,187	45,187	45,187	45,187	45,187	\$407
Crosby Memorial Community Centre	26,166	26,166	26,166	26,166	26,166	26,166	26,166	26,166	26,166	26,166	26,166	\$195
Markham Community Centre	28,889	28,889	28,889	28,889	28,889	28,889	28,889	28,889	28,889	28,889	28,889	\$195
Miliken Mills Community Centre	33,054	33,054	33,054	33,054	33,054	33,054	33,054	33,054	33,054	33,054	33,054	\$407
Mt. Joy Community Centre	29,309	29,309	29,309	29,309	29,309	29,309	29,309	29,309	29,309	29,309	29,309	\$195
R.J. Clatworthy Arena	32,329	32,329	32,329	32,329	32,329	32,329	32,329	32,329	32,329	32,329	32,329	\$195
Thornhill Community Centre	68,520	68,520	68,520	68,520	68,520	68,520	68,520	68,520	68,520	68,520	68,520	\$407
Total (sq.ft.)	328,713	332,580	332,580	332,580	332,580	332,580	332,580	332,580	332,580	332,580	332,580	
Total (\$000)	\$109,089.3	\$110,663.2	\$110,663.2	\$110,663.2	\$110,663.2	\$110,663.2	\$110,663.2	\$110,663.2	\$110,663.2	\$110,663.2	\$110,663.2	\$110,663.2

INDOOR SOCCER Facility Name	# of Square Feet											UNIT COST (\$/ha)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Miliken Soccer Dome	29,651	29,651	29,651	29,651	29,651	29,651	29,651	29,651	29,651	29,651	29,651	\$88
Mt. Joy Community Centre	24,178	24,178	24,178	24,178	24,178	24,178	24,178	24,178	24,178	24,178	24,178	\$195
Total (sq.ft.)	53,829	53,829	53,829	53,829	53,829	53,829	53,829	53,829	53,829	53,829	53,829	
Total (\$000)	\$7,335.9	\$7,335.9	\$7,335.9	\$7,335.9	\$7,335.9	\$7,335.9	\$7,335.9	\$7,335.9	\$7,335.9	\$7,335.9	\$7,335.9	\$7,335.9

Indoor Pool Facility Name	# of Square Feet											UNIT COST (\$/sq. ft.)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Angus Glen Community Centre	-	24,364	24,364	24,364	24,364	24,364	24,364	24,364	24,364	24,364	24,364	\$475
Centennial Community Centre	19,062	19,062	19,062	19,062	19,062	19,062	19,062	19,062	19,062	19,062	19,062	\$343
Miliken Mills Community Centre	23,950	23,950	23,950	23,950	23,950	23,950	23,950	23,950	23,950	23,950	23,950	\$475
Thornlea Pool	15,082	15,082	15,082	16,352	16,352	16,352	16,352	16,352	16,352	16,352	16,352	\$343
Total (sq.ft.)	58,094	82,458	82,458	83,728	83,728	83,728	83,728	83,728	83,728	83,728	83,728	
Total (\$000)	\$23,095.5	\$34,677.5	\$34,677.5	\$35,113.1	\$35,113.1	\$35,113.1	\$35,113.1	\$35,113.1	\$35,113.1	\$35,113.1	\$35,113.1	\$35,113.1

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION

Fitness Centres Facility Name	# of Square Feet											UNIT COST (\$/sq. ft.)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Centennial Community Centre	8,229	8,229	8,229	8,229	8,229	8,229	9,229	9,229	9,229	9,229	9,229	\$407
Thornhill Community Centre	12,961	12,961	12,961	16,932	16,932	16,932	16,932	16,932	16,932	16,932	16,932	\$407
Total (sq.ft.)	21,190	21,190	21,190	25,161	25,161	25,161	26,161	26,161	26,161	26,161	26,161	
Total (\$000)	\$8,624.3	\$8,624.3	\$8,624.3	\$10,240.5	\$10,240.5	\$10,240.5	\$10,647.5	\$10,647.5	\$10,647.5	\$10,647.5	\$10,647.5	\$10,647.5

Gymnasium Facility Name	# of Square Feet											UNIT COST (\$/sq. ft.)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Angus Glen Community Centre	-	9,598	9,598	9,598	9,598	9,598	9,598	9,598	9,598	9,598	9,598	\$262
Armada Community Centre	10,858	10,858	10,858	10,858	10,858	10,858	10,858	10,858	10,858	10,858	10,858	\$262
Centennial Community Centre	-	-	-	-	-	-	3,890	3,890	3,890	3,890	3,890	\$262
Flowervale Public School	4,060	4,060	4,060	4,060	4,060	4,060	4,060	4,060	4,060	4,060	4,060	\$262
Thornhill Community Centre	-	-	-	3,809	3,809	3,809	3,809	3,809	3,809	3,809	3,809	\$262
Reesor Park Public School	3,320	3,320	3,320	3,320	3,320	3,320	3,320	3,320	3,320	3,320	3,320	\$262
Total (sq.ft.)	18,238	27,836	27,836	31,645	31,645	31,645	35,535	35,535	35,535	35,535	35,535	
Total (\$000)	\$4,770.4	\$7,280.9	\$7,280.9	\$8,277.2	\$8,277.2	\$8,277.2	\$9,294.7	\$9,294.7	\$9,294.7	\$9,294.7	\$9,294.7	\$9,294.7

Senior Centres Facility Name	# of Square Feet											UNIT COST (\$/sq. ft.)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Markham Seniors Activity Centre	14,139	14,139	14,139	14,139	14,139	14,139	14,139	14,139	14,139	14,139	14,139	\$174
Thornhill Seniors Centre	-	5,600	5,600	6,720	6,720	6,720	6,720	6,720	6,720	6,720	6,720	\$174
Total (sq.ft.)	14,139	19,739	19,739	20,859	20,859	20,859	20,859	20,859	20,859	20,859	20,859	
Total (\$000)	\$2,455.3	\$3,427.7	\$3,427.7	\$3,622.2	\$3,622.2	\$3,622.2	\$3,622.2	\$3,622.2	\$3,622.2	\$3,622.2	\$3,622.2	\$3,622.2

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION

Common Space - Major Community Centres Facility Name	# of Square Feet											UNIT COST (\$/sq. ft.)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Angus Glen Community Centre	199	33,905	33,905	33,905	33,905	33,905	33,905	33,905	33,905	33,905	33,905	\$407
Armada Community Centre	7,239	7,239	7,239	7,239	7,239	7,239	7,239	7,239	7,239	7,239	7,239	\$195
Centennial Community Centre	11,096	11,096	11,096	11,096	11,096	11,096	11,096	26,406	26,406	26,406	26,406	\$407
Crosby Community Centre	2,606	2,606	2,606	2,606	2,606	2,606	2,606	2,606	2,606	2,606	2,606	\$195
Heintzman House	1,660	1,660	1,660	1,660	1,660	1,660	1,660	1,660	1,660	1,660	1,660	\$380
Markham Community Centre	11,096	11,096	11,096	11,096	11,096	11,096	11,096	11,096	11,096	11,096	11,096	\$195
Milliken Mills Community Centre	19,613	19,613	19,613	19,613	19,613	19,613	19,613	19,613	19,613	19,613	19,613	\$407
Mount Joy Community Centre	4,295	4,295	4,295	4,295	4,295	4,295	4,295	4,295	4,295	4,295	4,295	\$195
Rouge River Community Centre	6,180	6,180	6,180	6,180	6,180	6,180	6,180	6,180	6,180	6,180	6,180	\$250
Thornhill Community Centre	11,357	11,357	11,357	28,770	28,770	28,770	28,770	28,770	28,770	28,770	28,770	\$407
Total (sq.ft.)	75,341	109,047	109,047	126,460	126,460	126,460	141,770	141,770	141,770	141,770	141,770	
Total (\$000)	\$24,305.2	\$38,023.6	\$38,023.6	\$45,110.7	\$45,110.7	\$45,110.7	\$51,341.8	\$51,341.8	\$51,341.8	\$51,341.8	\$51,341.8	

Land	# of Hectares											UNIT COST (\$/ha)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Angus Glen Community Centre	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	\$4,497,000
Armada Community Centre	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	\$4,497,000
Box Grove Community Centre	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	\$4,497,000
Buttonville Women's Institute	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	\$4,497,000
Cedar Grove Community Centre	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	\$4,497,000
Centennial Community Centre	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	\$4,497,000
Crosby Memorial Community Centre	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	\$4,497,000
German Mills Community Centre	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	\$4,497,000
Heintzman House	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	\$4,497,000
Rouge River Community Centre	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	\$4,497,000
Markham Community Centre	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	\$4,497,000
Markham Seniors Activity Centre	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	\$4,497,000
Markham Train Station	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	\$4,497,000
Mickay House	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	\$4,497,000
Milliken Mills Community Centre	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.79	\$4,497,000
Milliken Soccer Dome	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	\$4,497,000
Mt. Joy Community Centre	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	\$4,497,000
Museum Education Building	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	\$4,497,000
Old Unionville Library Community Centre	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	\$4,497,000
R.J. Clatworthy Arena	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	\$4,497,000
Thornhill Community Centre	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	\$4,497,000
Unionville Train Station	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	\$4,497,000
Varey Art Gallery (Meeting room)	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	\$4,497,000
Victoria Square Community Centre	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	\$4,497,000
Warden House	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	\$4,497,000
Total (ha)	37.52	37.52	37.52	37.52	37.52	37.52	37.52	37.52	37.52	37.52	37.52	
Total (\$000)	\$168,727.4	\$168,727.4	\$168,727.4	\$168,727.4	\$168,727.4	\$168,727.4	\$168,727.4	\$168,727.4	\$168,727.4	\$168,727.4	\$168,727.4	

APPENDIX B.4
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CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION

Facility Name	Total Value of Furniture & Equipment (\$)											
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Centennial Community Centre	\$35,466	\$35,466	\$35,466	\$35,466	\$35,466	\$35,466	\$45,200	\$51,568	\$51,568	\$46,152		
Crosby Memorial Community Centre	\$32,402	\$32,402	\$32,402	\$32,402	\$32,402	\$32,402	\$35,570	\$37,772	\$37,772	\$43,985		
Markham Community Centre	\$27,880	\$27,880	\$27,880	\$27,880	\$27,880	\$27,880	\$27,880	\$29,300	\$31,958	\$32,479		
Miliken Mills Community Centre	\$45,938	\$45,938	\$45,938	\$45,938	\$45,938	\$45,938	\$45,938	\$46,172	\$46,172	\$30,290		
Old Unionville Library Community Centre	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Thornhill Community Centre	\$123,820	\$123,820	\$123,820	\$123,820	\$123,820	\$123,820	\$128,340	\$132,540	\$135,574	\$135,547		
Angus Glen Community Centre	\$41,590	\$41,590	\$41,590	\$41,590	\$41,590	\$41,590	\$52,110	\$53,459	\$55,159	\$25,045		
Armada Community Centre	\$26,080	\$26,080	\$26,080	\$26,080	\$26,080	\$26,080	\$26,080	\$26,080	\$15,741	\$26,860		
Rouge River Community Centre	\$35,110	\$35,110	\$35,110	\$35,110	\$35,110	\$35,110	\$35,110	\$35,110	\$52,661	\$22,970		
Warden House	\$11,290	\$11,290	\$11,290	\$11,290	\$11,290	\$11,290	\$13,260	\$14,592	\$14,592	\$12,696		
Buttonville Women's Institute	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Unionville Train Station	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Box Grove Community Centre	\$2,300	\$2,300	\$2,300	\$2,300	\$2,300	\$2,300	\$2,300	\$2,300	\$2,300	\$2,300		
Cedar Grove Community Centre	\$2,700	\$2,700	\$2,700	\$2,700	\$2,700	\$2,700	\$2,700	\$2,700	\$2,700	\$2,700		
German Mills Community Centre	\$1,800	\$1,800	\$1,800	\$1,800	\$1,800	\$1,800	\$1,800	\$1,800	\$1,800	\$1,800		
Heintzman House	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Victoria Square	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Mount Joy Community Centre	\$1,070	\$1,070	\$1,070	\$1,070	\$1,070	\$1,070	\$1,070	\$1,185	\$1,185	\$1,185		
Total (\$000)	\$387.4	\$387.4	\$387.4	\$387.4	\$387.4	\$387.4	\$417.4	\$434.6	\$449.2	\$384.0		

Facility Name	Total Value of Furniture & Equipment (\$)											
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Angus Glen Community Centre	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000		
Centennial Community Centre	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000		
Crosby Memorial Community Centre	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000		
Markham Community Centre	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000		
Miliken Mills Community Centre	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000		
Mt. Joy Community Centre	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000		
R.J. Clatworthy Arena	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000		
Thornhill Community Centre	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000		
Total (\$000)	\$880.0	\$880.0	\$880.0	\$880.0	\$880.0	\$880.0	\$880.0	\$880.0	\$880.0	\$880.0		

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION

Indoor Pools - Furniture & Equipment Facility Name	Total Value of Furniture & Equipment (\$)										
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	
Angus Glen Community Centre	\$97,866	\$97,866	\$97,866	\$97,866	\$97,866	\$97,866	\$97,866	\$113,045	\$109,415	\$68,658	
Centennial Community Centre	\$51,062	\$51,062	\$51,062	\$51,062	\$51,062	\$43,062	\$60,915	\$72,257	\$121,505	\$102,253	
Miliken Mills Community Centre	\$65,311	\$65,311	\$65,311	\$65,311	\$65,311	\$65,311	\$69,536	\$72,136	\$67,280	\$61,404	
Thornlea Pool	\$101,300	\$101,300	\$101,300	\$101,300	\$101,300	\$101,300	\$79,000	\$84,316	\$68,747	\$85,048	
Total (\$000)	\$315.5	\$315.5	\$315.5	\$315.5	\$315.5	\$307.5	\$307.3	\$341.8	\$366.9	\$317.4	

Fitness Centres - Furniture & Equipment Facility Name	Total Value of Furniture & Equipment (\$)										
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	
Centennial Community Centre	\$298,007	\$298,007	\$298,007	\$298,007	\$298,007	\$298,007	\$357,007	\$339,765	\$352,889	\$357,865	
Group Fitness Equipment	\$0	\$62,143	\$62,143	\$62,143	\$62,143	\$61,996	\$61,996	\$61,996	\$64,855	\$84,877	
Thornhill Community Centre	\$335,539	\$335,539	\$335,539	\$335,539	\$335,539	\$335,539	\$359,517	\$387,317	\$399,308	\$386,012	
Total (\$000)	\$633.5	\$695.7	\$695.7	\$695.7	\$695.7	\$695.5	\$778.5	\$789.1	\$817.1	\$828.8	

Program Supplies Facility Name	Total Value of Furniture & Equipment (\$)										
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	
Armada Community Centre	\$35,896	\$35,896	\$35,896	\$35,896	\$35,896	\$35,896	\$36,673	\$36,673	\$54,498	\$76,643	
Mount Joy C.C.	\$5,622	\$5,622	\$5,622	\$5,622	\$5,622	\$5,622	\$5,622	\$5,622	\$5,622	\$1,150	
Markham Village C.C.	\$15,272	\$15,272	\$15,272	\$15,272	\$15,272	\$15,272	\$15,272	\$15,272	\$15,272	\$13,813	
Centennial C.C.	\$24,581	\$24,581	\$24,581	\$24,581	\$24,581	\$24,581	\$32,961	\$31,348	\$50,306	\$44,901	
Crosby Arena	\$13,015	\$13,015	\$13,015	\$13,015	\$13,015	\$13,015	\$13,015	\$13,015	\$13,015	\$13,015	
Angus Glen C.C.	\$88,437	\$88,437	\$88,437	\$88,437	\$88,437	\$88,437	\$73,900	\$56,914	\$56,914	\$68,648	
Miliken Mills C.C.	\$68,160	\$68,160	\$68,160	\$68,160	\$68,160	\$68,160	\$64,447	\$66,611	\$90,365	\$93,717	
Miliken Mills Dome	\$8,457	\$8,457	\$8,457	\$8,457	\$8,457	\$8,457	\$8,457	\$8,457	\$8,457	\$8,457	
Rouge River C.C.	\$21,302	\$21,302	\$21,302	\$21,302	\$21,302	\$21,302	\$21,302	\$21,302	\$21,302	\$19,926	
Thornhill C.C.	\$95,221	\$95,221	\$95,221	\$95,221	\$95,221	\$95,221	\$52,349	\$62,749	\$62,749	\$49,199	
Warden House	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	
Old Library	\$13,000	\$13,000	\$13,000	\$13,000	\$13,000	\$13,000	\$13,000	\$13,000	\$13,000	\$13,000	
Train Station	\$0	\$0	\$0	\$0	\$0	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	
Water Street Seniors Centre	\$23,955	\$23,955	\$23,955	\$23,955	\$23,955	\$38,000	\$34,407	\$25,000	\$25,000	\$22,347	
Total (\$000)	\$420.9	\$420.9	\$420.9	\$420.9	\$420.9	\$437.0	\$381.4	\$366.0	\$426.5	\$434.8	

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION

Facility Name	Total Value of Furniture & Equipment (\$)												
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
Milliken Soccer Dome	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000
Total (\$000)	\$11.0	\$11.0	\$11.0	\$11.0	\$11.0	\$11.0	\$11.0	\$11.0	\$11.0	\$11.0	\$11.0	\$11.0	\$11.0

Facility Name	Total Value of Furniture & Equipment (\$)											
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Markham Seniors Activity (Water Street)	\$56,937	\$28,757	\$28,757	\$28,757	\$28,757	\$39,090	\$39,090	\$44,135	\$41,101	\$39,518		
Total (\$000)	\$56.9	\$28.8	\$28.8	\$28.8	\$28.8	\$39.1	\$39.1	\$44.1	\$41.1	\$39.5		

Facility Name	Total Value of Furniture & Equipment (\$)											
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Angus Glen Community Centre	\$82,900	\$82,900	\$825,600	\$825,600	\$825,600	\$825,600	\$825,600	\$825,600	\$825,600	\$825,600	\$825,600	\$825,600
Centennial Community Centre	\$118,600	\$118,600	\$118,600	\$118,600	\$118,600	\$118,600	\$233,925	\$233,925	\$233,925	\$233,925	\$233,925	\$233,925
Crosby Memorial Community Centre	\$485,200	\$485,200	\$485,200	\$485,200	\$485,200	\$485,200	\$72,200	\$72,200	\$72,200	\$72,200	\$72,200	\$72,200
Markham Community Centre	\$162,100	\$162,100	\$162,100	\$162,100	\$162,100	\$162,100	\$162,100	\$162,100	\$162,100	\$162,100	\$162,100	\$162,100
Milliken Mills Community Centre	\$105,500	\$105,500	\$105,500	\$105,500	\$105,500	\$105,500	\$361,000	\$361,000	\$361,000	\$361,000	\$361,000	\$361,000
Mt. Joy Community Centre	\$575,275	\$575,275	\$575,275	\$575,275	\$575,275	\$575,275	\$575,275	\$575,275	\$575,275	\$575,275	\$575,275	\$575,275
R.J. Clatworthy Arena	\$155,000	\$155,000	\$155,000	\$155,000	\$155,000	\$155,000	\$155,000	\$155,000	\$155,000	\$155,000	\$155,000	\$155,000
Thornhill Community Centre	\$134,300	\$134,300	\$134,300	\$134,300	\$134,300	\$134,300	\$164,425	\$164,425	\$164,425	\$164,425	\$164,425	\$164,425
Milliken Mills Dome	\$77,750	\$77,750	\$77,750	\$77,750	\$77,750	\$77,750	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
Armada Community Centre	\$11,400	\$11,400	\$11,400	\$11,400	\$11,400	\$11,400	\$87,500	\$87,500	\$87,500	\$87,500	\$87,500	\$87,500
Rouge River Community Centre	\$14,700	\$14,700	\$14,700	\$14,700	\$14,700	\$14,700	\$61,150	\$61,150	\$61,150	\$61,150	\$61,150	\$61,150
Warden House	\$5,300	\$5,300	\$5,300	\$5,300	\$5,300	\$5,300	\$11,400	\$11,400	\$11,400	\$11,400	\$11,400	\$11,400
Old Library	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$20,700	\$20,700	\$20,700	\$20,700	\$20,700	\$20,700
Buttonville Inst.	\$9,300	\$9,300	\$9,300	\$9,300	\$9,300	\$9,300	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100
Train Station	\$2,700	\$2,700	\$2,700	\$2,700	\$2,700	\$2,700	\$2,700	\$2,700	\$2,700	\$2,700	\$2,700	\$2,700
Box Grove	\$1,800	\$1,800	\$1,800	\$1,800	\$1,800	\$1,800	\$1,800	\$1,800	\$1,800	\$1,800	\$1,800	\$1,800
Cedar Grove	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
German Mills	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000
Heinzman House	\$32,300	\$32,300	\$32,300	\$32,300	\$32,300	\$32,300	\$32,300	\$32,300	\$32,300	\$32,300	\$32,300	\$32,300
Victoria Square	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000
Automatic External Defibrillation Program	\$121,000	\$121,000	\$121,000	\$121,000	\$121,000	\$121,000	\$123,000	\$123,000	\$123,000	\$123,000	\$123,000	\$123,000
Total (\$000)	\$2,144.1	\$2,144.1	\$2,886.8	\$2,886.8	\$2,886.8	\$2,886.8	\$2,950.2	\$2,950.2	\$2,947.2	\$2,923.6		

APPENDIX B.4
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CITY OF MARKHAM
CALCULATION OF SERVICE LEVELS
INDOOR RECREATION

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Historic Population	228,372	238,942	250,001	261,573	269,149	276,944	284,965	293,218	301,709	305,713
Historic Households	66,802	70,102	73,565	77,200	79,700	82,281	84,945	87,696	90,535	93,016
Total Population & Households	295,174	309,044	323,566	338,773	348,849	359,225	369,910	380,914	392,244	398,729

INVENTORY SUMMARY (\$000)

Halls And Meeting Rooms	\$34,567.9	\$39,654.6	\$39,654.6	\$47,165.1	\$47,165.1	\$47,165.1	\$48,380.0	\$48,380.0	\$50,272.5	\$50,272.5
Ice Pads	\$109,089.3	\$110,663.2	\$110,663.2	\$110,663.2	\$110,663.2	\$110,663.2	\$110,663.2	\$110,663.2	\$110,663.2	\$110,663.2
Indoor Soccer	\$7,335.9	\$7,335.9	\$7,335.9	\$7,335.9	\$7,335.9	\$7,335.9	\$7,335.9	\$7,335.9	\$7,335.9	\$7,335.9
Indoor Pool	\$23,095.5	\$34,677.5	\$34,677.5	\$35,113.1	\$35,113.1	\$35,113.1	\$35,113.1	\$35,113.1	\$35,113.1	\$35,113.1
Fitness Centres	\$8,624.3	\$8,624.3	\$8,624.3	\$10,240.5	\$10,240.5	\$10,240.5	\$10,647.5	\$10,647.5	\$10,647.5	\$10,647.5
Gymnasium	\$4,770.4	\$7,280.9	\$7,280.9	\$8,277.2	\$8,277.2	\$8,277.2	\$9,294.7	\$9,294.7	\$9,294.7	\$9,294.7
Senior Centres	\$2,455.3	\$3,427.7	\$3,427.7	\$3,622.2	\$3,622.2	\$3,622.2	\$3,622.2	\$3,622.2	\$3,622.2	\$3,622.2
Common Space - Major Community Centres	\$24,305.2	\$38,023.6	\$38,023.6	\$45,110.7	\$45,110.7	\$45,110.7	\$51,341.8	\$51,341.8	\$51,341.8	\$51,341.8
Land	\$168,727.4	\$168,727.4	\$168,727.4	\$168,727.4	\$168,727.4	\$168,727.4	\$168,727.4	\$168,727.4	\$168,727.4	\$168,727.4
Halls & Meeting Rooms - Furniture & Equipment	\$387.4	\$387.4	\$387.4	\$387.4	\$387.4	\$387.4	\$417.4	\$434.6	\$449.2	\$384.0
Ice Pads - Furniture & Equipment	\$880.0	\$880.0	\$880.0	\$880.0	\$880.0	\$880.0	\$880.0	\$880.0	\$880.0	\$880.0
Indoor Pools - Furniture & Equipment	\$315.5	\$315.5	\$315.5	\$315.5	\$315.5	\$307.5	\$307.3	\$341.8	\$366.9	\$317.4
Fitness Centres - Furniture & Equipment	\$633.5	\$695.7	\$695.7	\$695.7	\$695.7	\$695.5	\$778.5	\$789.1	\$817.1	\$828.8
Program Supplies	\$420.9	\$420.9	\$420.9	\$420.9	\$420.9	\$437.0	\$381.4	\$366.0	\$426.5	\$434.8
Soccer Domes - Furniture & Equipment	\$11.0	\$11.0	\$11.0	\$11.0	\$11.0	\$11.0	\$11.0	\$11.0	\$11.0	\$11.0
Seniors Centres - Furniture & Equipment	\$56.9	\$28.8	\$28.8	\$28.8	\$28.8	\$39.1	\$39.1	\$44.1	\$41.1	\$39.5
Common Space - Major Community Centres - Furniture & Equipment	\$2,144.1	\$2,144.1	\$2,886.8	\$2,886.8	\$2,886.8	\$2,886.8	\$2,950.2	\$2,950.2	\$2,947.2	\$2,923.6
Total (\$000)	\$387,820.8	\$423,298.6	\$424,041.3	\$441,881.5	\$441,881.5	\$441,899.7	\$450,890.7	\$450,942.6	\$452,957.4	\$452,837.5

APPENDIX B.4
TABLE 1 - PAGE 9

CITY OF MARKHAM
CALCULATION OF SERVICE LEVELS
INDOOR RECREATION

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	Average Service Level
Historic Population	228,372	238,942	250,001	261,573	269,149	276,944	284,965	293,218	301,709	305,713	
Historic Households	66,802	70,102	73,565	77,200	79,700	82,281	84,945	87,696	90,535	93,016	
Total Population & Households	295,174	309,044	323,566	338,773	348,849	359,225	369,910	380,914	392,244	398,729	

SERVICE LEVEL (\$/capita & household)

Halls And Meeting Rooms	\$117.11	\$128.31	\$122.55	\$139.22	\$135.20	\$131.30	\$130.79	\$127.01	\$128.17	\$126.08	\$128.57
Ice Pads	\$369.58	\$358.08	\$342.01	\$326.66	\$317.22	\$308.06	\$299.16	\$290.52	\$282.13	\$277.54	\$317.10
Indoor Soccer	\$24.85	\$23.74	\$22.67	\$21.65	\$21.03	\$20.42	\$19.83	\$19.26	\$18.70	\$18.40	\$21.06
Indoor Pool	\$78.24	\$112.21	\$107.17	\$103.65	\$100.65	\$97.75	\$94.92	\$92.18	\$89.52	\$88.06	\$96.44
Fitness Centres	\$29.22	\$27.91	\$26.65	\$30.23	\$29.36	\$28.51	\$28.78	\$27.95	\$27.15	\$26.70	\$28.25
Gymnasium	\$16.16	\$23.56	\$22.50	\$24.43	\$23.73	\$23.04	\$25.13	\$24.40	\$23.70	\$23.31	\$23.00
Senior Centres	\$8.32	\$11.09	\$10.59	\$10.69	\$10.38	\$10.08	\$9.79	\$9.51	\$9.23	\$9.08	\$9.88
Common Space - Major Community Centres	\$82.34	\$123.04	\$117.51	\$133.16	\$129.31	\$125.58	\$138.80	\$134.79	\$130.89	\$128.76	\$124.42
Land	\$571.62	\$545.97	\$521.46	\$498.05	\$483.67	\$469.70	\$456.13	\$442.95	\$430.16	\$423.16	\$484.29
Halls & Meeting Rooms - Furniture & Equipment	\$1.31	\$1.25	\$1.20	\$1.14	\$1.11	\$1.08	\$1.13	\$1.14	\$1.15	\$0.96	\$1.15
Ice Pads - Furniture & Equipment	\$2.98	\$2.85	\$2.72	\$2.60	\$2.52	\$2.45	\$2.38	\$2.31	\$2.24	\$2.21	\$2.53
Indoor Pools - Furniture & Equipment	\$1.07	\$1.02	\$0.98	\$0.93	\$0.90	\$0.86	\$0.83	\$0.90	\$0.94	\$0.80	\$0.92
Fitness Centres - Furniture & Equipment	\$2.15	\$2.25	\$2.15	\$2.05	\$1.99	\$1.94	\$2.10	\$2.07	\$2.08	\$2.08	\$2.09
Program Supplies	\$1.43	\$1.36	\$1.30	\$1.24	\$1.21	\$1.22	\$1.03	\$0.96	\$1.09	\$1.09	\$1.19
Soccer Domes - Furniture & Equipment	\$0.04	\$0.04	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03
Seniors Centres - Furniture & Equipment	\$0.19	\$0.09	\$0.09	\$0.08	\$0.08	\$0.11	\$0.11	\$0.12	\$0.10	\$0.10	\$0.11
Common Space - Major Community Centres - Furniture & Equipment	\$7.26	\$6.94	\$8.92	\$8.52	\$8.28	\$8.04	\$7.98	\$7.74	\$7.51	\$7.33	\$7.85
Total (\$/capita & household)	\$1,313.87	\$1,369.70	\$1,310.53	\$1,304.36	\$1,266.68	\$1,230.15	\$1,218.92	\$1,183.84	\$1,154.78	\$1,135.70	\$1,248.85

CITY OF MARKHAM
CALCULATION OF MAXIMUM ALLOWABLE
INDOOR RECREATION

10-Year Funding Envelope Calculation	
10 Year Average Service Level 2003 - 2012	\$1,248.85
Net Population & Household Growth 2013 - 2022	78,800
Maximum Allowable Funding Envelope	\$98,408,797
Less: Uncommitted Excess Capacity	\$0
Less: 10% Legislated Reduction	\$9,840,880
Discounted Maximum Allowable Funding Envelope	\$88,567,917

Excess Capacity Calculation	
Total Value of Inventory in 2012	\$452,837,505
Inventory Using Average Service Level	\$497,953,108
Excess Capacity	\$0
Excess Capacity:	Uncommitted



APPENDIX B.4
TABLE 2

CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
INDOOR RECREATION

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs	
					Replacement & BTE Shares	10% Reduction		Available DC Reserves	2013-2022
4.0 INDOOR RECREATION									
4.1 Recovery of Negative Reserve Fund Balance									
4.1.1 Balance as at December 31, 2012	2013	\$ 2,520,022	\$ -	\$ 2,520,022	\$ -	\$ -	\$ 2,520,022	\$ -	\$ -
Subtotal Recovery of Negative Reserve Fund Balance		\$ 2,520,022	\$ -	\$ 2,520,022	\$ -	\$ -	\$ 2,520,022	\$ -	\$ -
4.2 Major Facilities									
4.2.1 Markham Pan Am Centre (147,000 sf)	2013	\$ 78,516,917	\$ 31,924,786	\$ 46,592,131	\$ -	\$ 4,659,213	\$ 41,932,918	\$ -	\$ -
4.2.2 South East Markham Community Centre (101,000 sf)	2014	\$ 49,014,215	\$ -	\$ 49,014,215	\$ -	\$ 4,901,421	\$ 44,112,793	\$ -	\$ 9,447,816
Subtotal Major Facilities		\$ 127,531,132	\$ 31,924,786	\$ 95,606,346	\$ -	\$ 9,560,635	\$ 86,045,711	\$ -	\$ 9,447,816
4.3 Land for Major Facilities									
4.3.1 Markham Pan Am Centre	2013	\$ 10,500,000	\$ -	\$ 10,500,000	\$ -	\$ 1,050,000	\$ 9,450,000	\$ -	\$ -
4.3.2 South East Markham Community Centre	2014	\$ 4,382,231	\$ -	\$ 4,382,231	\$ -	\$ 438,223	\$ 3,944,008	\$ -	\$ 3,944,008
Subtotal Land for Major Facilities		\$ 14,882,231	\$ -	\$ 14,882,231	\$ -	\$ 1,488,223	\$ 13,394,008	\$ -	\$ 3,944,008
4.4 Furniture & Equipment									
4.4.1 South East Markham Community Centre	2014	\$ 6,535,785	\$ -	\$ 6,535,785	\$ -	\$ 653,579	\$ 5,882,207	\$ -	\$ 5,882,207
Subtotal Furniture & Equipment		\$ 6,535,785	\$ -	\$ 6,535,785	\$ -	\$ 653,579	\$ 5,882,207	\$ -	\$ 5,882,207
TOTAL INDOOR RECREATION		\$ 151,469,170	\$ 31,924,786	\$ 119,544,384	\$ -	\$ 11,702,436	\$ 107,841,948	\$ 88,567,917	\$ 19,274,031

Residential Development Charge Calculation		
Residential Share of 2013 - 2022 DC Eligible Costs	100%	\$88,567,917
10-Year Growth in Population in New Units		67,212
Unadjusted Development Charge Per Capita		\$1,317.74
Non-Residential Development Charge Calculation		
Non-Residential Share of 2013 - 2022 DC Eligible Costs	0%	\$0
10-Year Growth in Square Metres		2,553,322
Unadjusted Development Charge Per Square Metre		\$0.00

2013 - 2022 Net Funding Envelope	\$88,567,917
Reserve Fund Balance	(\$2,520,022)

APPENDIX B.4
TABLE 3

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

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
INDOOR RECREATION											
OPENING CASH BALANCE	\$0.0	(\$42,615.5)	(\$68,153.5)	(\$60,187.5)	(\$51,352.1)	(\$43,251.9)	(\$35,056.9)	(\$26,729.3)	(\$18,231.4)	(\$9,519.4)	
2013 - 2022 RESIDENTIAL FUNDING REQUIREMENTS											
- Indoor Recreation: Non Inflated	\$53,902.9	\$34,665.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$88,567.9
- Indoor Recreation: Inflated	\$53,902.9	\$35,358.3	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$89,261.2
NEW RESIDENTIAL DEVELOPMENT											
- Population Growth in New Units	8,312	8,383	7,401	7,523	6,634	6,295	5,986	5,704	5,450	5,524	67,212
REVENUE											
- DC Receipts: Inflated	\$12,428.0	\$12,784.9	\$11,513.0	\$11,936.8	\$10,736.7	\$10,391.9	\$10,079.4	\$9,796.6	\$9,547.6	\$9,870.8	\$109,085.7
INTEREST											
- Interest on Opening Balance	\$0.0	(\$2,343.9)	(\$3,748.4)	(\$3,310.3)	(\$2,824.4)	(\$2,378.9)	(\$1,928.1)	(\$1,470.1)	(\$1,002.7)	(\$523.6)	(\$19,530.4)
- Interest on In-year Transactions	(\$1,140.6)	(\$620.8)	\$201.5	\$208.9	\$187.9	\$181.9	\$176.4	\$171.4	\$167.1	\$172.7	(\$293.6)
TOTAL REVENUE	\$11,287.4	\$9,820.3	\$7,966.0	\$8,835.4	\$8,100.2	\$8,194.9	\$8,327.7	\$8,497.9	\$8,712.0	\$9,520.0	\$89,261.8
CLOSING CASH BALANCE	(\$42,615.5)	(\$68,153.5)	(\$60,187.5)	(\$51,352.1)	(\$43,251.9)	(\$35,056.9)	(\$26,729.3)	(\$18,231.4)	(\$9,519.4)	\$0.6	

2013 Adjusted Charge Per Capita
\$1,495.19

Allocation of Capital Program	
Residential Sector	100.0%
Non-Residential Sector	0.0%
Rates for 2013	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



APPENDIX B.5

***PARK DEVELOPMENT
AND FACILITIES***

APPENDIX B.5

PARK DEVELOPMENT AND 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 650 hectares of developed parkland and an array of parks facilities including playgrounds, soccer fields, and baseball diamonds.

TABLE 1 2003-2012 HISTORIC SERVICE LEVELS

Table 1 displays the Parks ten-year historic inventory for sports fields, developed parkland, park buildings and parks fleet. The sports fields amount to \$86.99 million, outdoor buildings are valued at \$28.28 million, developed parkland, a main component of the parks service level, add \$184.50 million to the inventory. Finally, special facilities add another \$21.04 million.

The 2012 full replacement value of the inventory of capital assets for the Park Development and Facilities amounts to \$320.81 million and the ten-year historic average service level is \$859.22 per capita and household.

The historic service level multiplied by the ten-year forecast of net population and household growth results in a ten-year maximum allowable funding envelope of \$67.71 million (78,800 net population and household growth X historic service level of \$859.22/capita & household). No excess capacity has been identified in this service.

Parks is a service for which development-related capital costs must be reduced by ten percent as required under the *DCA*. The resulting net maximum allowable funding envelope brought forward to the development charges calculation is reduced to \$60.94 million.

TABLE 2 2013 – 2022 DEVELOPMENT-RELATED CAPITAL PROGRAM & CALCULATION OF THE UNADJUSTED DEVELOPMENT CHARGE

The 2013–2022 gross development-related capital program for the Parks department amounts to \$269.03 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; major soccer pitches, major diamonds, cricket pitches, tennis courts, minor soccer pitches, mini soccer pitches, basketball courts, waterplay facilities, playgrounds, gazebos/shelters, washrooms and other park buildings, field houses and worksheds, concrete plaza spaces, concrete pathways, pathways, bridges, parking lots, lighting, irrigation for sports fields and parks, skate parks, and park development.

No grants or replacement shares have been identified for this service. The ten per cent reduction shares amount to \$26.90 million and must be financed through non-DC sources. There is \$47.71 million currently in the Parks DC reserve fund balance and this has been applied to the first capital projects on the program. A large amount of the program, \$133.48 million, is deemed to be post period benefit and will be examined for DC recovery in subsequent DC by-law updates.

The 2013–2022 DC costs eligible for recovery amount to \$60.94 million which is allocated entirely against future residential development in the City of Markham. This results in an unadjusted development charge of \$906.62 per capita.

TABLE 3 CASH FLOW AND RESERVE FUND ANALYSIS

After cash flow and reserve fund consideration, the residential calculated charge increases to \$1,030.17 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:

PARK DEVELOPMENT & FACILITIES SUMMARY						
10-year Hist.	2013 - 2022		Unadjusted		Adjusted	
Service Level	Development-Related Capital Program		Development Charge		Development Charge	
per household	Total	Net DC Recoverable	\$/capita	\$/sq.m	\$/capita	\$/sq.m
\$3,753.86	\$269,032,214	\$60,935,521	\$906.62	\$0.00	\$1,030.17	\$0.00

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION
SPORTS FIELDS

Major Soccer - Lighted Park Name	# of Lighted Major Soccer Fields										UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
ANGUS GLEN PARK	-	-	-	-	-	1	1	1	1	1	1	\$548,510
BERCZY PARK	1	1	1	1	1	1	1	1	1	1	1	\$548,510
BISHOP'S CROSS	1	1	1	1	1	1	1	1	1	1	1	\$548,510
BROTHER ANDRE	-	-	-	-	-	1	1	1	1	1	1	\$548,510
CENTENNIAL	1	1	1	1	1	1	1	1	1	1	1	\$548,510
HUNTINGTON PARK	1	1	1	1	1	1	1	1	1	1	1	\$548,510
MILLIKEN HIGH SCHOOL	1	1	1	1	1	1	1	1	1	1	1	\$548,510
MILLIKEN MILLS COMMUNITY PARK	1	1	1	1	1	1	1	1	1	1	1	\$548,510
MOUNT JOY	2	2	2	2	2	2	2	2	2	2	2	\$548,510
Total (#)	8	8	8	8	9	10	10	10	10	10	10	
Total (\$000)	\$4,388.1	\$4,388.1	\$4,388.1	\$4,388.1	\$4,936.6	\$5,485.1	\$5,485.1	\$5,485.1	\$5,485.1	\$5,485.1	\$5,485.1	\$5,485.1

Major Diamond - Lighted Park Name	# of Lighted Major Diamonds										UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
CARLTON	1	1	1	1	1	1	1	1	1	1	1	\$485,808
CROSBY	1	1	1	1	1	1	1	1	1	1	1	\$485,808
MONARCH	1	1	1	1	1	1	1	1	1	1	1	\$485,808
BAYVIEW RESERVOIR	1	1	1	1	1	1	1	1	1	1	1	\$485,808
BERCZY PARK SOUTH	-	-	-	-	-	-	-	-	-	-	-	\$485,808
GRANDVIEW	1	1	1	1	1	1	1	1	1	1	1	\$485,808
BISHOP'S CROSS	2	2	2	2	2	2	2	2	2	2	2	\$485,808
MINTLEAF	1	1	1	1	1	1	1	1	1	1	1	\$485,808
HIGHGATE	1	1	1	1	1	1	1	1	1	1	1	\$485,808
MILLIKEN MILLS COMMUNITY PARK	5	5	5	5	5	5	5	5	5	5	5	\$485,808
VICTORIA SQUARE	1	1	1	1	1	1	1	1	1	1	1	\$485,808
CENTENNIAL	2	2	2	2	2	2	2	2	2	2	2	\$485,808
ASHTON MEADOWS	1	1	1	1	1	1	1	1	1	1	1	\$485,808
MORGAN	1	1	1	1	1	1	1	1	1	1	1	\$485,808
CEDARGROVE	1	1	1	1	1	1	1	1	1	1	1	\$485,808
HUNTINGTON PARK	1	1	1	1	1	1	1	1	1	1	1	\$485,808
Total (#)	21	21	21	21	21	22	22	22	22	22	22	
Total (\$000)	\$10,202.0	\$10,202.0	\$10,202.0	\$10,202.0	\$10,202.0	\$10,687.8	\$10,687.8	\$10,687.8	\$10,687.8	\$10,687.8	\$10,687.8	\$10,687.8

APPENDIX B.5
TABLE 1 - PAGE 2

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION
SPORTS FIELDS

Major Soccer - Unlighted Park Name	# of Unlighted Major Soccer Fields											UNIT COST (\$/ha)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
ALDERGROVE	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
ARMSTRONG	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
ASHTON MEADOWS	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
BAYVIEW RESERVOIR	2	2	2	2	2	2	2	2	2	2	2	2	\$162,285
BENJAMIN MARR - SOUTH	2	2	2	2	2	2	2	2	2	2	2	2	\$162,285
BERCZY PARK	2	2	2	2	2	2	2	2	2	2	2	2	\$162,285
BROTHER ANDRE	-	-	-	-	1	1	1	1	1	1	1	1	\$162,285
CALVERT	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
CARLTON	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
CENTRAL	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
COLTY CORNERS	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
COPPARD	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
CROSBY	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
ELSON	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
GREEN LANE	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
HIGHGATE	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
JAMES EDWARD	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
JOHN BUTTON	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
MARKHAM DISTRICT HS	3	3	3	3	3	3	3	3	3	3	3	3	\$162,285
MCLAREN PARK	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
MINTLEAF	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
RANDALL	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
RAYBECK	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
RIVERWALK PARK	-	-	-	-	-	-	-	-	-	-	-	-	\$162,285
ROY RAINEY PARK	-	-	-	-	-	-	-	-	-	-	-	-	\$162,285
SPRINGDALE	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
STALMASTER PARK	-	-	-	-	-	-	-	-	-	-	-	-	\$162,285
THORNLEA EAST	1	1	1	1	1	1	1	1	1	1	1	1	\$162,285
UHS SPORTSFIELD	2	2	2	2	2	2	2	2	2	2	2	2	\$162,285
UPPER CORNELL PARK	-	-	-	-	-	-	-	-	-	-	-	-	\$162,285
WILLOWHEIGHTS PARK	-	-	-	-	-	-	-	-	-	-	-	-	\$162,285
Total (#)	31	31	31	31	32	36	36	36	38	38	38	38	
Total (\$000)	\$5,030.8	\$5,030.8	\$5,030.8	\$5,030.8	\$5,193.1	\$5,842.3	\$5,842.3	\$5,842.3	\$6,166.8	\$6,166.8	\$6,166.8	\$6,166.8	\$6,166.8

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION
SPORTS FIELDS

Minor Soccer - Unlighted Park Name	# of Unlighted Minor Soccer Fields												UNIT COST (\$/ha)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
ARMSTRONG	1	1	1	1	1	1	1	1	1	1	1	1	\$138,624
ASHTON MEADOWS	1	1	1	1	1	1	1	1	1	1	1	1	\$138,624
BERCZY PARK SOUTH	-	-	-	-	-	-	-	-	-	-	-	-	\$138,624
HUNTINGTON PARK	2	2	2	2	2	2	2	2	2	2	2	2	\$138,624
JOHN CANNING	1	1	1	1	1	1	1	1	1	1	1	1	\$138,624
LEITCHCROFT NEIGHBOURHOOD PARK	1	1	1	1	1	1	1	1	1	1	1	1	\$138,624
MIDDLEFIELD COLLEGIATE	1	1	1	1	1	1	1	1	1	1	1	1	\$138,624
MILLIKEN MILLS COMMUNITY PARK	3	3	3	3	3	3	3	3	3	3	3	3	\$138,624
MONARCH	1	1	1	1	1	1	1	1	1	1	1	1	\$138,624
PADDOCK	1	1	-	-	-	-	-	-	-	-	-	-	\$138,624
QUANTZTOWN	1	1	1	1	1	1	1	1	1	1	1	1	\$138,624
ROXBURY	1	1	1	1	1	1	1	1	1	1	1	1	\$138,624
TOMLINSON	1	1	1	1	1	1	1	1	1	1	1	1	\$138,624
WILCLAY	1	1	1	1	1	1	1	1	1	1	1	1	\$138,624
WISMER PARK	-	-	-	-	-	-	6	6	6	6	6	6	\$138,624
Total (#)	16	16	15	15	15	15	21	21	21	21	21	21	
Total (\$000)	\$2,218.0	\$2,218.0	\$2,079.4	\$2,079.4	\$2,079.4	\$2,079.4	\$2,911.1	\$2,911.1	\$2,911.1	\$2,911.1	\$2,911.1	\$2,911.1	\$3,049.7

Mini Soccer - Unlighted Park Name	# of Unlighted Mini Soccer Fields												UNIT COST (\$/unit)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
ALDERGROVE	2	2	2	2	2	2	2	2	2	2	2	2	\$52,998
ARMADALE	2	2	2	2	2	2	2	2	2	2	2	2	\$52,998
BAYVIEW RESERVOIR	3	3	3	3	3	3	3	3	3	3	3	3	\$52,998
CHANCERY PARK	-	-	-	-	-	-	4	4	4	4	4	4	\$52,998
DENISON	1	1	1	1	1	1	1	1	1	1	1	1	\$52,998
FINCHAM	4	4	4	10	10	10	10	10	10	10	10	10	\$52,998
GRANDVIEW	1	1	1	1	1	1	1	1	1	1	1	1	\$52,998
HUNTINGTON PARK	1	1	1	1	1	1	1	1	1	1	1	1	\$52,998
MCLAREN PARK	1	1	1	1	1	1	1	1	1	1	1	1	\$52,998
MINTLEAF	5	5	5	8	8	8	8	8	8	8	8	8	\$52,998
POMONA MILLS	2	2	2	2	2	2	2	2	2	2	2	2	\$52,998
ROXBURY	4	4	4	4	4	4	4	4	4	4	4	4	\$52,998
SOUTH UNIONVILLE	-	-	-	-	-	-	2	2	2	2	2	2	\$52,998
VILLAGE PARK	1	1	1	1	1	1	1	1	1	1	1	1	\$52,998
WALKER	2	2	2	2	2	2	2	2	2	2	2	2	\$52,998
Total (#)	29	29	29	43	45	45	45	45	45	45	45	45	
Total (\$000)	\$1,537.0	\$1,537.0	\$1,537.0	\$2,276.9	\$2,384.9	\$2,384.9	\$2,384.9	\$2,384.9	\$2,384.9	\$2,384.9	\$2,384.9	\$2,384.9	

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CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION
SPORTS FIELDS

Major Diamond - Unlighted Park Name	# of Unlighted Major Diamonds												UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014		
LINCOLN	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
DENISON	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
RANDALL	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
REESOR	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
RISEBOROUGH	2	2	2	2	2	2	2	2	2	2	2	2	2	\$157,527
BAYVIEW LANE	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
ALDERGROVE	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
ELSON	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
JAMES EDWARD	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
FEATHERSTONE	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
DUNCAN	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
BAYVIEW GLEN	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
VICTORIA SQUARE	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
ARMADALE	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
WOODLAND	1	-	-	-	-	-	-	-	-	-	-	-	-	\$157,527
JOHN BUTTON	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
COLEDALE	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
STARGELL	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
CALVERT	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
RAYBECK	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
LEGACY	2	2	2	2	2	2	2	2	2	2	2	2	2	\$157,527
COLTY CORNERS	1	1	1	1	1	1	1	1	1	1	1	1	1	\$157,527
Total (#)	24	23	23	23	23	23	23	23	23	23	23	23	23	
Total (\$000)	\$3,780.6	\$3,623.1	\$3,623.1	\$3,623.1	\$3,623.1	\$3,623.1	\$3,623.1	\$3,623.1	\$3,623.1	\$3,623.1	\$3,623.1	\$3,623.1	\$3,623.1	\$3,623.1

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CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION
SPORTS FIELDS

Minor Diamonds Park Name	# of Minor Diamonds												UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2012	2012		
Armstrong	1	1	1	1	1	1	1	1	1	1	1	1	1	\$121,327
Ashton Meadows	1	1	1	1	1	1	1	1	1	1	1	1	1	\$121,327
Bayview Reservoir	1	1	1	1	1	1	1	1	1	1	1	1	1	\$121,327
Carlton	2	2	2	2	2	2	2	2	2	2	2	2	2	\$121,327
Crosby	2	2	2	2	2	2	2	2	2	2	2	2	2	\$121,327
Glencrest	1	1	1	1	1	1	1	1	1	1	1	1	1	\$121,327
Grandview	1	1	1	1	1	1	1	1	1	1	1	1	1	\$121,327
Greenlane	1	1	1	1	1	1	1	1	1	1	1	1	1	\$121,327
Johnsview	1	1	1	1	1	1	1	1	1	1	1	1	1	\$121,327
Lincoln	1	1	1	1	1	1	1	1	1	1	1	1	1	\$121,327
Paddock	1	1	1	1	1	1	1	1	1	1	1	1	1	\$121,327
Reesor	2	2	2	2	2	2	2	2	2	2	2	2	2	\$121,327
Riseborough	1	1	1	1	1	1	1	1	1	1	1	1	1	\$121,327
Robinson	2	2	2	2	2	2	2	2	2	2	2	2	2	\$121,327
Royal Orchard	2	2	2	2	2	2	2	2	2	2	2	2	2	\$121,327
Roxbury	1	1	1	1	1	1	1	1	1	1	1	1	1	\$121,327
Stargell	1	1	1	1	1	1	1	1	1	1	1	1	1	\$121,327
Wilsley	1	1	1	1	1	1	1	1	1	1	1	1	1	\$121,327
Victoria Centre	1	1	1	1	1	1	1	1	1	1	1	1	1	\$121,327
Woodlands	1	1	1	1	1	1	1	1	1	1	1	1	1	\$121,327
Total (#)	25	25	25	25	25	25	25	25	25	25	25	25	25	
Total (\$000)	\$3,033.2	\$3,033.2	\$3,033.2	\$3,033.2	\$3,033.2	\$3,033.2	\$3,033.2	\$3,033.2	\$3,033.2	\$3,033.2	\$3,033.2	\$3,033.2	\$3,033.2	\$3,033.2

Tennis Courts - Lighted Park Name	# of Lighted Tennis Courts												UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2012	2012		
CARLTON	9	9	9	9	9	9	9	9	9	9	9	9	9	\$155,429
POMONA MILLS	6	6	6	6	6	6	6	6	6	6	6	6	6	\$155,429
REESOR	6	6	6	6	6	6	6	6	6	6	6	6	6	\$155,429
GRANDVIEW	3	3	3	3	3	3	3	3	3	3	3	3	3	\$155,429
HIGHGATE	6	6	6	6	6	6	6	6	6	6	6	6	6	\$155,429
HENDERSON PUBLIC SCHOOL	2	2	2	2	2	2	2	2	2	2	2	2	2	\$155,429
BOX GROVE	2	2	2	2	2	2	2	2	2	2	2	2	2	\$155,429
DUNCAN	3	3	3	3	3	3	3	3	3	3	3	3	3	\$155,429
BAYVIEW GLEN	2	2	2	2	2	2	2	2	2	2	2	2	2	\$155,429
ARMADALE	4	4	4	4	4	4	4	4	4	4	4	4	4	\$155,429
TOOGOOD	2	2	2	2	2	2	2	2	2	2	2	2	2	\$155,429
MORGAN	2	2	2	2	2	2	2	2	2	2	2	2	2	\$155,429
Total (#)	47	47	47	47	47	47	47	47	47	47	47	47	47	
Total (\$000)	\$7,305.1	\$7,305.1	\$7,305.1	\$7,305.1	\$7,305.1	\$7,305.1	\$7,305.1	\$7,305.1	\$7,305.1	\$7,305.1	\$7,305.1	\$7,305.1	\$7,305.1	\$7,305.1

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION
SPORTS FIELDS

Tennis Courts - Unlighted Park Name	# of Unlighted Tennis Courts											UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
JOHNSVIEW	1	1	1	1	1	1	1	1	1	1	1	1	\$111,646
BERCZY PARK SOUTH	-	-	-	-	-	-	-	-	-	-	-	-	\$111,646
WISMER PARK	-	-	-	-	-	-	-	-	-	-	-	-	\$111,646
WILLOWHEIGHTS PARK	-	-	-	-	-	-	-	-	-	-	-	-	\$111,646
ROBINSON	2	2	2	2	2	2	2	2	2	2	2	2	\$111,646
Total (#)	3	3	3	3	3	3	5	5	5	5	5	6	
Total (\$000)	\$334.9	\$334.9	\$334.9	\$334.9	\$334.9	\$558.2	\$558.2	\$558.2	\$558.2	\$558.2	\$558.2	\$669.9	

Bocce Courts Park Name	# of Bocce Courts											UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
DENISON	1	1	1	1	1	1	1	1	1	1	1	1	\$19,264
SPRINGDALE	4	4	4	-	-	-	-	-	-	-	-	-	\$19,264
MILLIKEN MILLS COMMUNITY PARK	3	3	3	3	3	3	3	3	3	3	3	3	\$19,264
Total (#)	8	8	8	4	4	4	4	4	4	4	4	4	
Total (\$000)	\$154.1	\$154.1	\$154.1	\$77.1	\$77.1	\$77.1	\$77.1	\$77.1	\$77.1	\$77.1	\$77.1	\$77.1	

Basketball Courts Park Name	# of Basketball Courts											UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
Half Court													
ELSON	1	1	1	1	1	1	1	1	1	1	1	1	\$14,842
MILLIKEN MILLS COMMUNITY PARK	1	1	1	1	1	1	1	1	1	1	1	1	\$14,842
WILLOWHEIGHTS PARK	-	-	-	-	-	-	-	-	-	-	-	-	\$14,842
ARMADALE	1	1	1	1	1	1	1	1	1	1	1	1	\$14,842
SABLEWOOD	1	1	1	1	1	1	1	1	1	1	1	1	\$14,842
CENTENNIAL	1	1	1	1	1	1	1	1	1	1	1	1	\$14,842
ASHTON MEADOWS	1	1	1	1	1	1	1	1	1	1	1	1	\$14,842
Victoria Square	1	1	-	-	-	-	-	-	-	-	-	-	\$14,842
Full Court													
DENISON	1	1	1	1	1	1	1	1	1	1	1	1	\$29,682
BERCZY PARK SOUTH	-	-	-	-	-	-	-	-	-	-	-	-	\$29,682
WISMER PARK	-	-	-	-	-	-	-	-	-	-	-	-	\$29,682
BAYVIEW LANE	1	1	1	1	1	1	1	1	1	1	1	1	\$29,682
MILLIKEN MILLS COMMUNITY PARK	1	1	1	1	1	1	1	1	1	1	1	1	\$29,682
LEIGHLAND	1	1	1	1	1	1	1	1	1	1	1	1	\$29,682
LEGACY	1	1	1	1	1	1	1	1	1	1	1	1	\$29,682
Total (#)	12	12	11	11	11	11	13	13	13	13	13	14	
Total (\$000)	\$252.3	\$252.3	\$237.5	\$237.5	\$237.5	\$282.0	\$282.0	\$282.0	\$282.0	\$282.0	\$282.0	\$311.7	

CITY OF MARKHAM
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SPORTS FIELDS

Cricket Pitch Park Name	# of Cricket Pitches												UNIT COST (\$/unit)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
EASTVALE PARK	-	-	-	-	-	1	1	1	1	1	1	1	\$293,780
MCCOWAN RESERVOIR	2	2	2	2	2	2	2	2	2	2	2	2	\$293,780
Total (#)	2	2	2	2	2	3	3	3	3	3	3	3	
Total (\$000)	\$587.6	\$587.6	\$587.6	\$587.6	\$587.6	\$881.3	\$881.3	\$881.3	\$881.3	\$881.3	\$881.3	\$881.3	\$881.3

Rugby Pitch Park Name	# of Rugby Pitches												UNIT COST (\$/unit)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
Austin Drive	1	1	1	1	1	1	1	1	1	1	1	1	\$225,719
Total (#)	1	1	1	1	1	1	1	1	1	1	1	1	
Total (\$000)	\$225.7	\$225.7	\$225.7	\$225.7	\$225.7	\$225.7	\$225.7	\$225.7	\$225.7	\$225.7	\$225.7	\$225.7	\$225.7

Outdoor Pools Park Name	# of Outdoor Pools												UNIT COST (\$/unit)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
Morgan	1	1	1	1	1	1	1	1	1	1	1	1	\$729,418
Rouge	1	1	1	1	1	1	1	1	1	1	1	1	\$729,418
Total (#)	2	2	2	2	2	2	2	2	2	2	2	2	
Total (\$000)	\$1,458.8	\$1,458.8	\$1,458.8	\$1,458.8	\$1,458.8	\$1,458.8	\$1,458.8	\$1,458.8	\$1,458.8	\$1,458.8	\$1,458.8	\$1,458.8	\$1,458.8

Skate Parks Park Name	# of Skate Parks												UNIT COST (\$/unit)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
CENTENNIAL	-	1	1	1	1	1	1	1	1	1	1	1	\$790,759
BERCZY PARK SOUTH	-	-	-	-	-	-	-	-	-	-	-	-	\$790,759
Total (#)	-	1	1	1	1	1	1	1	1	1	1	2	
Total (\$000)	\$0.0	\$790.8	\$790.8	\$790.8	\$790.8	\$790.8	\$790.8	\$790.8	\$790.8	\$790.8	\$790.8	\$1,581.5	

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CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION
SPORTS FIELDS

Playgrounds - Senior Park Name	# of Senior Playgrounds											UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
LINCOLN	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
PERSONNA	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
RANDALL	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
WILCLAY	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
JOHN CANNING	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
AVOCA	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
VANHORN PARK (LEITCHCROFT)	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
BAYVIEW RESERVOIR	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
PIONEER	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
POMONA MILLS	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
JOHNSVIEW	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
MILTON FIERHELLER	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
HAZELTON	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
BERCZY PARK SOUTH	-	-	-	-	-	1	1	1	1	1	1	2	\$168,203
ROXBURY	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
REEVE PARK	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
SPRINGDALE	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
WHITE'S HILL PARK	-	-	-	-	-	1	1	1	1	1	1	1	\$168,203
REESOR	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
GRANDVIEW	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
SOUTH UNIONVILLE	-	-	-	-	1	1	1	1	1	1	1	1	\$168,203
RISEBOROUGH	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
FOREST MANOR PARKETTE	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
MIDDLETON	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
GREEN LANE	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
MINTLEAF	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
HIGHGATE	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203

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CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION
SPORTS FIELDS

Playgrounds - Senior Park Name	# of Senior Playgrounds											UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
BAYVIEW LANE	2	2	2	2	2	2	2	2	2	2	2	2	\$168,203
ALDERGROVE	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
ELSON	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
JAMES EDWARD	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
WINDFIELDS	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
DUNCAN	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
GLENCREST	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
EASTVALE PARK	-	-	-	-	-	-	-	-	-	-	-	-	\$168,203
JOHN BUTTON	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
DRAKE	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
CAKEBREAD	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
SABLEWOOD	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
COLEDALE	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
CENTENNIAL	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
CENTRAL	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
WALKER	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
BLACK WALNUT PARK	-	-	-	-	-	-	-	-	-	-	-	-	\$168,203
APPLE CREEK SOUTH	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
GRAND CORNELL PARK	-	-	-	-	-	-	-	-	-	-	-	-	\$168,203
OAKBOROUGH WOODS	-	-	-	-	-	-	-	-	-	-	-	-	\$168,203
COLLINGHAM PARKETTE	-	-	-	-	-	-	-	-	-	-	-	-	\$168,203
BEAUPRE	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
CEDARGROVE	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
LEGACY	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
COLTY CORNERS	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
EVERVALE	1	1	1	1	1	1	1	1	1	1	1	1	\$168,203
Total (#)	46	46	46	46	46	46	46	48	51	51	53	54	55
Total (\$000)	\$7,737.3	\$7,737.3	\$7,737.3	\$7,737.3	\$8,073.7	\$8,578.3	\$8,578.3	\$8,914.8	\$9,083.0	\$9,251.2			

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SPORTS FIELDS

Playgrounds - Junior Park Name	# of Junior Playgrounds											UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
QUANTZTOWN	2	2	2	2	2	2	2	2	2	2	2	2	\$120,616
AUSTIN	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
BELGRAVE PARK	-	-	-	-	-	-	-	-	-	-	-	-	\$120,616
WEATHERHILL PARKETTE	-	-	-	-	-	-	-	-	-	-	-	-	\$120,616
RANDALL	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
WILCLAY	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
JOHN CANNING	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
AVOCA	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
LUNDY PARK	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
POMONA MILLS	-	-	1	1	1	1	1	1	1	1	1	1	\$120,616
JOHNSVIEW	-	-	1	1	1	1	1	1	1	1	1	1	\$120,616
HAZELTON	-	-	-	-	-	-	-	-	-	-	-	-	\$120,616
BERCZY PARK SOUTH	1	2	2	2	2	2	2	2	2	2	2	2	\$120,616
ROXBURY	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
SPRINGDALE	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
MARKHAM CIVIC CENTRE	2	2	2	2	2	2	2	2	2	2	2	2	\$120,616
GREEN LANE	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
COBBLEHILL PARKETTE	-	-	-	-	-	-	-	-	-	-	-	-	\$120,616
ROMFIELD	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
ELSON	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
JAMES EDWARD	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
RAYNESWOOD	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
STONE FARM	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
SPRUCEWOOD	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
BROOKHAVEN	-	-	1	1	1	1	1	1	1	1	1	1	\$120,616
STORYBOOK	-	-	-	1	1	1	1	1	1	1	1	1	\$120,616

APPENDIX B.5
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CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION
SPORTS FIELDS

Playgrounds - Junior Park Name	# of Junior Playgrounds											UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
EASTVALE PARK	-	-	-	-	-	1	1	1	1	1	1	1	\$120,616
WILLOWHEIGHTS PARK	-	-	-	-	-	1	1	1	1	1	1	1	\$120,616
COUNTRY RIDGE	-	1	1	1	1	1	1	1	1	1	1	1	\$120,616
VICTORIA SQUARE	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
ARMADALE	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
BUSSA PARK	-	-	-	-	-	-	-	-	-	-	-	-	\$120,616
JOHN BUTTON	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
APPLE CREEK	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
TOOGOOD	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
BRIARWOOD	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
CENTENNIAL	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
CENTRAL	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
THE MEWS PARK	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
GRAND CORNELL PARK	-	-	-	-	-	-	-	-	-	-	-	-	\$120,616
CABOTO TRAIL PARK	-	-	-	-	-	-	-	1	1	1	1	1	\$120,616
LAMPTON PARK & VALLEY	-	1	1	1	1	1	1	1	1	1	1	1	\$120,616
STARHILL	-	-	-	-	-	1	1	1	1	1	1	1	\$120,616
AMBER GLEN	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
LEGACY	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
CHELSEA PARK	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
CASTLEMORE PARK	-	-	-	-	-	-	-	-	-	-	-	-	\$120,616
BILLINSLEY PARK	1	1	1	1	1	1	1	1	1	1	1	1	\$120,616
DALTON PARLETTE	-	-	-	-	-	-	-	-	-	-	-	-	\$120,616
Total (#)	33	36	39	40	42	47	48	48	51	51	51	51	
Total (\$000)	\$3,980.3	\$4,342.2	\$4,704.0	\$4,824.6	\$5,065.9	\$5,668.9	\$5,789.6	\$5,789.6	\$6,151.4	\$6,151.4	\$6,151.4	\$6,151.4	

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION
SPORTS FIELDS

Park Name	# of Senior & Junior Playgrounds												UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012				
CARLTON	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
MILLENNIUM SQUARE	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804
MONARCH	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
DENISON	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
BIANCA PARK	2	2	2	2	2	2	2	2	2	2	2	2	2	\$246,804
NORDINGLEN	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
SUMMERDALE	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
THORNLEA EAST	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
WINDY HILL	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
PROCTOR	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
LEITCHCROFT NEIGHBOURHOOD PARK	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
FREDERICK BAGG	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
TOMLINSON	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
ROXBURY	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
FINCHAM	2	2	2	2	2	2	2	2	2	2	2	2	2	\$246,804
WISMER PARK	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804
SWAN LAKE	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804
CHANCERY PARK	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804
BRANDO PARK	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804
BISHOP'S CROSS	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
MCLAREN PARK	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
ROUGEHAVEN	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
MORNING DOVE SQUARE	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804
CHIPPENHAM PARK	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804
JOHN DANIELS PARK	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
MILLIKEN MILLS COMMUNITY PARK	2	2	2	2	2	2	2	2	2	2	2	2	2	\$246,804
FEATHERSTONE	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
COPPARD	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
HUGHSON	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
VINECLIFF PARK	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804
EVERETT PARKETTE	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804

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CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION
SPORTS FIELDS

Playgrounds - Senior & Junior Park Name	# of Senior & Junior Playgrounds												UNIT COST \$/unit	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012				
BOX GROVE	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
RAILSIDE	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
PADDOCK	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
BAYVIEW GLEN	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
BENJAMIN MARR - SOUTH	-	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
LEIGHLAND	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
CENTENNIAL	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
ROBINSON	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
ASHTON MEADOWS	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
ARMSTRONG	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
STARGELL	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
CALVERT	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
RAYBECK	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
COUNTRY GLEN PARKLETTE	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804
STALMASTER PARK	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804
APPLEVIEW PARKETTE	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804
ROY RAINEY PARK	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804
UPPER CORNELL PARK	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804
ORCHARDVIEW PARK	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804
RIZAL PARKETTE	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804
DALTON PARKETTE	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804
RIVERWALK PARK	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804
BENJAMIN MARR	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
BEAUPRE	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
MORGAN	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
STARHILL	-	-	-	-	-	-	-	-	-	-	-	-	-	\$246,804
ANGUS GLEN	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
THOMAS FRISBY	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
MILLENNIUM PARK	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
HUNTINGTON PARK	1	1	1	1	1	1	1	1	1	1	1	1	1	\$246,804
Total (#)	44	45	45	46	48	57	57	58	62	61				
Total (\$000)	\$10,859.4	\$11,106.2	\$11,106.2	\$11,353.0	\$11,846.6	\$14,067.8	\$14,067.8	\$14,314.6	\$15,301.9	\$15,055.0				

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION
SPORTS FIELDS

Waterplay - Minor Park Name	# of Minor Waterplay Parks											UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
SOUTH UNIONVILLE	-	-	-	-	1	1	1	1	1	1	1	1	\$135,482
BAYVIEW LANE	-	-	-	1	1	1	1	1	1	1	1	1	\$135,482
VINECLIFF PARK	-	-	-	-	-	1	1	1	1	1	1	1	\$135,482
BENJAMIN MARR	1	1	1	1	1	1	1	1	1	1	1	1	\$135,482
MAJESTIC COURT STRATA PARK	-	-	-	-	-	-	-	-	-	-	-	1	\$135,482
Total (#)	1	1	1	2	3	4	4	4	4	4	4	5	
Total (\$000)	\$135.5	\$135.5	\$135.5	\$271.0	\$406.4	\$541.9	\$541.9	\$541.9	\$541.9	\$541.9	\$541.9	\$677.4	

Waterplay - Major Park Name	# of Major Waterplay Parks											UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
TOMLINSON	1	1	1	1	1	1	1	1	1	1	1	1	\$298,091
WISMER PARK	-	-	-	-	-	1	1	1	1	1	1	1	\$298,091
SWAN LAKE	-	-	-	-	1	1	1	1	1	1	1	1	\$298,091
MCLAREN PARK	1	1	1	1	1	1	1	1	1	1	1	1	\$298,091
JAMES EDWARD	1	1	1	1	1	1	1	1	1	1	1	1	\$298,091
MILLIKEN MILLS COMMUNITY PARK	1	1	1	1	1	1	1	1	1	1	1	1	\$298,091
EASTVALE PARK	-	-	-	-	-	1	1	1	1	1	1	1	\$298,091
WILLOWHEIGHTS PARK	-	-	-	-	-	1	1	1	1	1	1	1	\$298,091
ASHTON MEADOWS	1	1	1	1	1	1	1	1	1	1	1	1	\$298,091
UPPER CORNELL PARK	-	-	-	-	-	1	1	1	1	1	1	1	\$298,091
BEAUPRE	1	1	1	1	1	1	1	1	1	1	1	1	\$298,091
MILLENNIUM PARK	1	1	1	1	1	1	1	1	1	1	1	1	\$298,091
Total (#)	7	7	7	7	8	12	12	12	12	12	12	12	
Total (\$000)	\$2,086.6	\$2,086.6	\$2,086.6	\$2,086.6	\$2,384.7	\$3,577.1	\$3,577.1	\$3,577.1	\$3,577.1	\$3,577.1	\$3,577.1	\$3,577.1	

Golf Course Park Name	# of Parks											UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
Legacy Golf Course	1	1	1	1	1	1	1	1	1	1	1	1	\$5,339,167
Total (#)	1	1	1	1	1	1	1	1	1	1	1	1	
Total (\$000)	\$5,339.2	\$5,339.2	\$5,339.2	\$5,339.2	\$5,339.2	\$5,339.2	\$5,339.2	\$5,339.2	\$5,339.2	\$5,339.2	\$5,339.2	\$5,339.2	

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION
SPORTS FACILITIES

Outdoor Recreation Buildings Park Name	# of Square Feet										UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
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	7,259	\$159
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	2,719	\$159
Bercy Commons	200	200	200	200	200	200	200	200	200	200	200	\$127
Bishop Cross	600	600	600	600	600	600	600	600	600	600	600	\$127
Centennial	600	600	600	600	600	600	600	600	600	600	600	\$127
Civic Center Park	600	600	600	600	600	600	600	600	600	600	600	\$127
Greenhouses 4415 14th Avenue	12,600	12,600	12,600	12,600	12,600	12,600	12,600	12,600	12,600	12,600	12,600	\$127
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	1,200	\$159
Milliken Mills Park	600	600	600	600	600	600	600	600	600	600	600	\$127
Milne Dam	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	\$127
Paint Shop, 440 John Street	580	580	580	580	580	580	580	580	580	580	580	\$159
Princess Street	960	960	960	960	960	960	960	960	960	960	960	\$159
Storage Building 14th Avenue	1,440	1,440	1,440	1,440	1,440	1,440	1,440	1,440	1,440	1,440	1,440	\$127
Storage Shed, 440 John Street	1,440	1,440	1,440	1,440	1,440	1,440	1,440	1,440	1,440	1,440	1,440	\$127
Tower Storage, 440 John Street	13,270	13,270	13,270	13,270	13,270	13,270	13,270	13,270	13,270	13,270	13,270	\$127
Total (#)	45,336	45,336	45,336	45,336	45,336	45,336	45,336	45,336	45,336	45,336	45,336	
Total (\$000)	\$6,172.3	\$6,172.3	\$6,172.3	\$6,172.3	\$6,172.3	\$6,172.3	\$6,172.3	\$6,172.3	\$6,172.3	\$6,172.3	\$6,172.3	

Land for Outdoor Recreation Buildings Park Name	# of Hectares										UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
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	2.50	\$4,497,000
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	0.44	\$4,497,000
440 John Street	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	\$4,497,000
Bishops Cross	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	\$4,497,000
Centennial	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	\$4,497,000
Civic Center Park	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	\$4,497,000
Milliken Mills Park	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	\$4,497,000
Milne Dam	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	\$4,497,000
Princess Street	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	\$4,497,000
Toogood Pavilion	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	\$4,497,000
Total (#)	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	
Total (\$000)	\$16,508.5	\$16,508.5	\$16,508.5	\$16,508.5	\$16,508.5	\$16,508.5	\$16,508.5	\$16,508.5	\$16,508.5	\$16,508.5	\$16,508.5	

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION
SPORTS FACILITIES

Washrooms Park Name	# of Washrooms										UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
TOOGOOD POND	1	1	1	1	1	1	1	1	1	1	1	\$75,274
POMONA MILLS	1	1	1	1	1	1	1	1	1	1	1	\$75,274
MILNE	1	1	1	1	1	1	1	1	1	1	1	\$75,274
SPRINGDALE	1	1	1	1	1	1	1	1	1	1	1	\$75,274
RISEBOROUGH	1	1	1	1	1	1	1	1	1	1	1	\$75,274
MINTLEAF	1	1	1	1	1	1	1	1	1	1	1	\$75,274
MILLIKEN MILLS COMMUNITY PARK	1	1	1	1	1	1	1	1	1	1	1	\$75,274
VICTORIA SQUARE	1	1	1	1	1	1	1	1	1	1	1	\$75,274
ROBINSON	-	-	-	-	-	-	-	-	-	-	-	\$75,274
MILLENNIUM PARK	1	1	1	1	1	1	1	1	1	1	1	\$75,274
Total (#)	9	9	9	9	9	9	9	9	10	10	10	
Total (\$000)	677.47	677.47	677.47	677.47	677.47	677.47	677.47	677.47	752.74	752.74	752.74	

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CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
INDOOR RECREATION
SPORTS FACILITIES

Gazebos & Shelters Park Name	# of Gazebos & Shelters												UNIT COST (\$/unit)			
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012						
Minor																
ALFRED PATTERSON	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	\$59,371
BEAUPRE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$59,371
BENJAMIN MARR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$59,371
BENJAMIN MARR - SOUTH	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$59,371
BRANDO PARK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$59,371
CHURCH PARKETTE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$59,371
DENISON	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$59,371
FREDERICK BAGG	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$59,371
HAZELTON	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	\$59,371
JAMES EDWARD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$59,371
JOSEPH ST. PARKETTE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$59,371
LEITCHCROFT NEIGHBOURHOOD PARK	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$59,371
MORNING DOVE SQUARE	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	\$59,371
RIZAL PARKETTE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$59,371
ROUGEHAVEN	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	\$59,371
ROXBURY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$59,371
ROY RAINEY PARK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$59,371
SOUTH UNIONVILLE	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	\$59,371
VICTORIA SQUARE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$59,371
WILLIAMSTOWN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$59,371
MAJESTIC COURT STRATA PARK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$59,371
Major																
BERCZY PARK SOUTH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$189,988
CATHEDRAL (KING DAVID) PARK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$189,988
CHANCERY PARK	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	\$189,988
GREENSBOROUGH TOWN CENTRE PARK	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$189,988
HUNTINGTON PARK	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$189,988
JOHN DANIELS PARK	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$189,988
LEGACY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$189,988
MCLAREN PARK	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$189,988
MILLENNIUM PARK	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	\$189,988
MILNE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$189,988
RIVERWALK PARK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$189,988
SWAN LAKE	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	\$189,988
UPPER CORNELL PARK	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	\$189,988
VINECLIFF PARK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$189,988
Total (#)	22	23	23	24	28	34	35	37	40	42						
Total (\$000)	\$2,481.7	\$2,541.1	\$2,541.1	\$2,731.1	\$3,099.2	\$3,847.3	\$3,906.6	\$4,025.4	\$4,595.3	\$4,844.7						



APPENDIX B.5
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CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
PARK DEVELOPMENT & FACILITIES
OUTDOOR RECREATION

Developed Parkland Park Name	# of Hectares of Developed Area												UNIT COST (\$/ha)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
All Developed Parkland	560.23	577.08	587.38	602.38	619.18	640.39	654.66	642.25	651.65	651.78			\$283,073
Total (ha)	560.23	577.08	587.38	602.38	619.18	640.39	654.66	642.25	651.65	651.78			
Total (\$000)	\$158,586.2	\$163,356.0	\$166,271.7	\$170,517.8	\$175,273.4	\$181,277.4	\$185,316.0	\$181,802.6	\$184,463.4	\$184,501.2			

APPENDIX B.5
TABLE 1 - PAGE 19

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
PARK DEVELOPMENT & FACILITIES
BRIDGES

Wooden Bridges Park Name	# of Linear Feet										UNIT COST (\$/sq.ft.)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Armada 3 Structure(s)	60	60	60	60	60	60	60	60	60	60	60	\$535
Calvert 1 Structure(s)	43	43	43	43	43	43	43	43	43	43	43	\$535
Coppard 1 Structure(s)	8	8	8	8	8	8	8	8	8	8	8	\$535
Dennison 1 Structure(s)	8	8	8	8	8	8	8	8	8	8	8	\$535
Featherstone 1 Structure(s)	8	8	8	8	8	8	8	8	8	8	8	\$535
James Edward 1 Structure(s)	8	8	8	8	8	8	8	8	8	8	8	\$535
John Button Waterway 1 Structure(s)	17	17	17	17	17	17	17	17	17	17	17	\$535
Middlefield Corners 1 Structure(s)	16	16	16	16	16	16	16	16	16	16	16	\$535
Millstone 1 Structure(s)	224	224	224	224	224	224	224	224	224	224	224	\$535
Normandale 2 Structure(s)	225	225	225	225	225	225	225	225	225	225	225	\$535
Quantz Town 1 Structure(s)	25	25	25	25	25	25	25	25	25	25	25	\$535
Randall 2 Structure(s)	16	16	16	16	16	16	16	16	16	16	16	\$535
Robinson 1 Structure(s)	22	22	22	22	22	22	22	22	22	22	22	\$535
Springdale Park 2 Structure(s)	91	91	91	91	91	91	91	91	91	91	91	\$535
Tannery Pond	416	416	416	416	416	416	416	416	416	416	416	\$535
Toogood Pond 1 Structure(s)	397	397	397	397	397	397	397	397	397	397	397	\$535
Total (sq.ft.)	1,584	1,584	1,584	1,584	1,584	1,584	1,584	1,584	1,584	1,584	1,584	
Total (\$000)	\$848.1	\$848.1	\$848.1	\$848.1	\$848.1	\$848.1	\$848.1	\$848.1	\$848.1	\$848.1	\$848.1	

Steel Bridges Park Name	# of Linear Feet										UNIT COST (\$/ha)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Aiken 3 structure(s)	144	144	144	144	144	144	144	144	144	144	144	\$2,258
Austin 4 structure(s)	313	313	313	313	313	313	313	313	313	313	313	\$2,258
Bamfield Structure	-	-	-	-	55	55	55	55	55	55	55	\$2,258
Berczy Commons	120	120	120	120	120	120	120	120	120	120	120	\$2,258
Cedar Valley 1 structure(s)	151	151	151	151	151	151	151	151	151	151	151	\$2,258
Civic Center 1 structure(s)	46	46	46	46	46	46	46	46	46	46	46	\$2,258
Cochrane Pond	75	75	75	75	75	75	75	75	75	75	75	\$2,258
Milne Floating (Plastic) 1 structure(s)	56	56	56	56	56	56	56	56	56	56	56	\$2,258
Normandale 4 structure(s)	206	206	206	206	206	206	206	206	206	206	206	\$2,258
Personna 1 structure(s)	30	30	30	30	30	30	30	30	30	30	30	\$2,258
Rodick Road Pedestrian Bridge	160	160	160	160	160	160	160	160	160	160	160	\$2,258
Six Penny 1 structure(s)	26	26	26	26	26	26	26	26	26	26	26	\$2,258
Summerdale 1 structure(s)	30	30	30	30	30	30	30	30	30	30	30	\$2,258
Toogood Pond 1 Structure(s)	50	50	50	50	50	50	50	50	50	50	50	\$2,258
Toogood Pond Dam 1 structure(s)	356	356	356	356	356	356	356	356	356	356	356	\$2,258
Unionville Library 1 structure(s)	56	56	56	56	56	56	56	56	56	56	56	\$2,258
Unionville Gate 1 structure(s)	31	31	31	31	31	31	31	31	31	31	31	\$2,258
Walden 3 structure(s)	206	206	206	206	206	206	206	206	206	206	206	\$2,258
Wycliffe 1 structure(s)	60	60	60	60	60	60	60	60	60	60	60	\$2,258
Total (ha)	2,116	2,116	2,116	2,116	2,171	2,171	2,171	2,171	2,171	2,171	2,171	
Total (\$000)	\$4,778.4	\$4,778.4	\$4,778.4	\$4,778.4	\$4,902.6	\$4,902.6	\$4,902.6	\$4,902.6	\$4,902.6	\$4,902.6	\$4,902.6	

APPENDIX B.5
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CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
PARK DEVELOPMENT & FACILITIES
BRIDGES

Pathways Type	# of Linear Metres											UNIT COST (\$/unit)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Paved Surface	35,863	35,863	35,863	36,041	36,224	36,825	38,275	38,872	40,265	40,265	40,265	\$60
Stone Surface	33,505	34,288	35,071	35,854	36,637	37,419	37,419	37,419	37,419	37,419	37,419	\$42
Woodchip Surface	2,515	2,515	2,515	2,515	2,515	2,515	2,515	2,515	2,515	2,515	2,515	\$63
Concrete Surface	5,966	5,966	5,966	5,966	5,966	5,966	7,288	7,341	8,269	8,720	8,720	\$100
Boardwalk	191	191	191	191	191	191	208	242	242	242	242	\$514
Total (#)	78,039	78,822	79,605	80,566	81,532	82,915	85,705	86,390	88,711	89,161	89,161	
Total (\$000)	\$4,424.7	\$4,457.6	\$4,490.5	\$4,534.1	\$4,578.0	\$4,647.2	\$4,875.7	\$4,934.6	\$5,111.3	\$5,156.2	\$5,156.2	

Illumination Location	# of Poles											UNIT COST (\$/unit)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Pathways	287	287	287	287	287	287	346	346	346	346	346	\$5,831
Playgrounds	26	26	26	26	26	32	32	32	32	32	32	\$5,831
Parking Lots	69	69	69	69	69	69	69	70	69	69	69	\$8,026
Total (#)	382	382	382	382	382	388	447	448	447	447	450	
Total (\$000)	\$2,378.9	\$2,378.9	\$2,378.9	\$2,378.9	\$2,413.9	\$2,413.9	\$2,757.9	\$2,766.0	\$2,757.9	\$2,757.9	\$2,775.4	

Irrigation Type	# of Fields											UNIT COST (\$/unit)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Sportfield	35	35	35	35	35	35	38	38	40	40	40	\$18,554
Total (#)	35	35	35	35	35	35	38	38	40	40	40	
Total (\$000)	\$649.4	\$649.4	\$649.4	\$649.4	\$649.4	\$649.4	\$705.0	\$705.0	\$742.1	\$742.1	\$742.1	

Landscaping Type	Square Metres											UNIT COST (\$/sq. m.)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Landscape (<=5000 square metres)	66,333	66,333	66,333	66,333	66,333	66,333	66,333	66,333	66,333	66,333	66,333	\$7.32
Landscape (>5000 square metres)	14,926	14,926	14,926	14,926	16,786	16,786	16,786	16,786	16,786	16,786	16,786	\$3.66
Total (#)	81,259	81,259	81,259	81,259	83,119	83,119	83,119	83,119	83,119	83,119	83,119	
Total (\$000)	\$539.8	\$539.8	\$539.8	\$539.8	\$546.6	\$546.6	\$546.6	\$546.6	\$546.6	\$546.6	\$546.6	

Parking Lots Type	Square Metres											UNIT COST (\$/sq. m.)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Paved	55,239	55,239	55,239	55,239	55,239	55,239	55,239	55,239	55,239	55,239	55,239	\$78
Unpaved	39,896	39,896	39,896	39,896	39,896	39,896	39,896	39,896	39,896	39,896	39,896	\$43
Total (#)	95,135	95,135	95,135	95,135	95,135	95,135	95,135	95,135	95,135	95,135	95,135	
Total (\$000)	\$6,068.0	\$6,068.0	\$6,068.0	\$6,068.0	\$6,068.0	\$6,068.0	\$6,068.0	\$6,068.0	\$6,068.0	\$6,068.0	\$6,068.0	



CITY OF MARKHAM
CALCULATION OF SERVICE LEVELS
PARK DEVELOPMENT & FACILITIES

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Historic Population	228,372	238,942	250,001	261,573	269,149	276,944	284,965	293,218	301,709	305,713
Historic Households	66,802	70,102	73,565	77,200	79,700	82,281	84,945	87,696	90,535	93,016
Total Population & Households	295,174	309,044	323,566	338,773	348,849	359,225	369,910	380,914	392,244	398,729

INVENTORY SUMMARY (\$000)

Sports Fields	\$70,646.6	\$71,888.4	\$72,096.8	\$73,264.7	\$75,586.3	\$83,319.8	\$83,440.5	\$84,023.7	\$85,865.5	\$86,993.1
Parks Buildings	\$25,840.0	\$25,899.4	\$25,899.4	\$26,089.4	\$26,457.5	\$27,205.5	\$27,264.9	\$27,383.7	\$28,028.9	\$28,278.3
Developed Parkland	\$158,586.2	\$163,356.0	\$166,271.7	\$170,517.8	\$175,273.4	\$181,277.4	\$185,316.0	\$181,802.6	\$184,463.4	\$184,501.2
Bridges, Etc.	\$19,687.3	\$19,720.2	\$19,753.0	\$19,796.7	\$20,006.6	\$20,075.7	\$20,704.0	\$20,770.9	\$20,976.7	\$21,039.0
Total (\$000)	\$274,760.1	\$280,864.0	\$284,020.9	\$289,668.4	\$297,323.7	\$311,878.5	\$316,725.3	\$313,980.8	\$319,334.5	\$320,811.6

SERVICE LEVEL (\$/pop & HH)

	Average Service Level										
Sports Fields	\$239.34	\$232.62	\$222.82	\$216.26	\$216.67	\$231.94	\$225.57	\$220.58	\$218.91	\$218.18	\$224.29
Parks Buildings	\$87.54	\$83.80	\$80.04	\$77.01	\$75.84	\$75.73	\$73.71	\$71.89	\$71.46	\$70.92	\$76.80
Developed Parkland	\$537.26	\$528.58	\$513.87	\$503.34	\$502.43	\$504.63	\$500.98	\$477.28	\$470.28	\$462.72	\$500.14
Bridges, Etc.	\$66.70	\$63.81	\$61.05	\$58.44	\$57.95	\$55.89	\$55.97	\$54.53	\$53.48	\$52.77	\$58.00
Total (\$/capita)	\$930.84	\$908.82	\$877.78	\$855.05	\$852.30	\$868.20	\$856.22	\$824.28	\$814.12	\$804.58	\$859.22

CITY OF MARKHAM
CALCULATION OF SERVICE LEVELS
PARK DEVELOPMENT & FACILITIES

10-Year Funding Envelope Calculation	
10 Year Average Service Level 2003 - 2012	\$859.22
Net Population & Household Growth 2013 - 2022	78,800
Maximum Allowable Funding Envelope	\$67,706,135
Less: Uncommitted Excess Capacity	\$0
Less: 10% Legislated Reduction	\$6,770,613
Discounted Maximum Allowable Funding Envelope	\$60,935,521

Excess Capacity Calculation	
Total Value of Inventory in 2012	\$320,811,561
Inventory Using Average Service Level	\$342,596,204
Excess Capacity	\$0
Excess Capacity:	Uncommitted

APPENDIX B.5
TABLE 2 - PAGE 1
CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		Post 2022	
						10% Reduction	Available DC Reserves		2013-2022	2022		
5.0 PARK DEVELOPMENT & FACILITIES												
5.1 Major Soccer - Lighted												
5.1.1 Angus Glen Community Centre Park	2013	\$ 548,510	\$ -	\$ 548,510	\$ -	\$ -	\$ 54,851	\$ 493,659	\$ 493,659	\$ -	\$ -	
5.1.2 Boxgrove Community Park	2013	\$ 1,097,020	\$ -	\$ 1,097,020	\$ -	\$ -	\$ 109,702	\$ 987,318	\$ 987,318	\$ -	\$ -	
5.1.3 Southwest Cathedral Monarch Memorial Neighbourhood Park	2013	\$ 548,510	\$ -	\$ 548,510	\$ -	\$ -	\$ 54,851	\$ 493,659	\$ 493,659	\$ -	\$ -	
5.1.4 South East Markham Community Centre Park	2013	\$ 548,510	\$ -	\$ 548,510	\$ -	\$ -	\$ 54,851	\$ 493,659	\$ 493,659	\$ -	\$ -	
5.1.5 Markham Sports Park	2013	\$ 6,033,610	\$ -	\$ 6,033,610	\$ -	\$ -	\$ 603,361	\$ 5,430,249	\$ 5,430,249	\$ -	\$ -	
5.1.6 Cornell Community Park	2014	\$ 1,645,530	\$ -	\$ 1,645,530	\$ -	\$ -	\$ 164,553	\$ 1,480,977	\$ 1,480,977	\$ -	\$ -	
5.1.7 Wismer Greenspire North Central Parkette	2014	\$ 548,510	\$ -	\$ 548,510	\$ -	\$ -	\$ 54,851	\$ 493,659	\$ 493,659	\$ -	\$ -	
5.1.8 Wismer Hwy. #48 Museum North	2014	\$ 1,097,020	\$ -	\$ 1,097,020	\$ -	\$ -	\$ 109,702	\$ 987,318	\$ 987,318	\$ -	\$ -	
5.1.9 Greensborough Alfred Patterson Neighbourhood Park	2015	\$ 548,510	\$ -	\$ 548,510	\$ -	\$ -	\$ 54,851	\$ 493,659	\$ 493,659	\$ -	\$ 493,659	
5.1.10 Cornell Secondary School Neighbourhood Park	2016	\$ 548,510	\$ -	\$ 548,510	\$ -	\$ -	\$ 54,851	\$ 493,659	\$ 493,659	\$ -	\$ 493,659	
5.1.11 North Donald Cousins Park	2016	\$ 548,510	\$ -	\$ 548,510	\$ -	\$ -	\$ 54,851	\$ 493,659	\$ 493,659	\$ -	\$ 493,659	
5.1.12 Fairtree East Village Remington Parkview Community Park E.	2021	\$ 1,097,020	\$ -	\$ 1,097,020	\$ -	\$ -	\$ 109,702	\$ 987,318	\$ 987,318	\$ -	\$ 987,318	
Subtotal Major Soccer - Lighted		\$ 14,809,770	\$ -	\$ 14,809,770	\$ -	\$ -	\$ 1,480,977	\$ 13,328,793	\$ 7,898,544	\$ 2,961,954	\$ 2,468,295	
5.2 Major Soccer - Unlighted												
5.2.1 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 324,570	\$ -	\$ 324,570	\$ -	\$ -	\$ 32,457	\$ 292,113	\$ 292,113	\$ -	\$ -	
5.2.2 Leitchcroft (Times) Community Park	2013	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ -	
5.2.3 South Unionville Ray Street Parkette E.	2013	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ -	
5.2.4 Wismer Donald Mingay Parkette on Mingay (4 parcels)	2014	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ -	
5.2.5 Wismer Hwy. #48 Hammersley Woodlot Park (3 parcels)	2014	\$ 324,570	\$ -	\$ 324,570	\$ -	\$ -	\$ 32,457	\$ 292,113	\$ 292,113	\$ -	\$ -	
5.2.6 Elgin St. Honsburger Park	2014	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ 146,057	
5.2.7 Berczy Beckett Neighbourhood Park	2015	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ 146,057	
5.2.8 Northwest Cathedral Neighbourhood Park S.	2015	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ 146,057	
5.2.9 Cornell Centre Maitamy Woodlot Park	2016	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ 146,057	
5.2.10 Remington Markham Centre Active Park East	2016	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ 146,057	
5.2.11 South Unionville Community Park W.	2016	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ 146,057	
5.2.12 Wismer Alexander Lowrey Neighbourhood Park West	2016	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ 146,057	
5.2.13 Victoria Square Community Park N. Phase	2018	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ 146,057	
5.2.14 Heritage Park adjacent Aryeh Strata Park	2018	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ 146,057	
5.2.15 Fairtree East Village Forest Bay Neighbourhood Park	2019	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ 146,057	
5.2.16 Greensborough North Parkway N.P. East	2019	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ 146,057	
5.2.17 OPA 15 Markham Centre Chiment Court Park	2019	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ 146,057	
5.2.18 Woodbine Bypass Park	2020	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ 146,057	
5.2.19 Main Street Milliken Armadale N.P.	2020	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ 146,057	
5.2.20 Fairtree East Village Forest Bay Community Park W. (Pair w/FAIR-7)	2021	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ 146,057	
5.2.21 Fairtree East Village Remington Parkview Neighbourhood Park	2021	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ 146,057	
5.2.22 Upper Cornell N.P.	2022	\$ 162,285	\$ -	\$ 162,285	\$ -	\$ -	\$ 16,229	\$ 146,057	\$ 146,057	\$ -	\$ 146,057	
Subtotal Major Soccer - Unlighted		\$ 3,894,840	\$ -	\$ 3,894,840	\$ -	\$ -	\$ 389,484	\$ 3,505,356	\$ 584,226	\$ -	\$ 2,336,904	

APPENDIX B.5
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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs	
					Replacement & BTE Shares	10% Reduction		Available DC Reserves	2013-2022
5.0 PARK DEVELOPMENT & FACILITIES									
5.3 Major Diamond - Lighted									
5.3.1 Markham Sports Park	2013	\$ 1,943,232	-	\$ 1,943,232	\$ -	\$ 194,323	\$ 1,748,909	\$ 1,748,909	\$ -
5.3.2 Cornell Community Park	2014	\$ 485,808	-	\$ 485,808	\$ -	\$ 48,581	\$ 437,227	\$ -	\$ 437,227
Subtotal Major Diamond - Lighted		\$ 2,429,040	-	\$ 2,429,040	\$ -	\$ 242,904	\$ 2,186,136	\$ 1,748,909	\$ 437,227
5.4 Major Diamond - Unlighted									
5.4.1 Boxgrove Community Park	2013	\$ 157,527	-	\$ 157,527	\$ -	\$ 15,753	\$ 141,774	\$ 141,774	\$ -
5.4.2 Wismer Hwy. #48 Hamersley Woodlot Park (3 parcels)	2014	\$ 157,527	-	\$ 157,527	\$ -	\$ 15,753	\$ 141,774	\$ -	\$ 141,774
5.4.3 Cornell Centre Mattamy Woodlot Park	2016	\$ 157,527	-	\$ 157,527	\$ -	\$ 15,753	\$ 141,774	\$ -	\$ 141,774
5.4.4 Fairtree East Village Remington Parkview Community Park E.	2021	\$ 157,527	-	\$ 157,527	\$ -	\$ 15,753	\$ 141,774	\$ -	\$ 141,774
Subtotal Major Diamond - Unlighted		\$ 630,108	-	\$ 630,108	\$ -	\$ 63,011	\$ 567,097	\$ 141,774	\$ 283,549
5.5 Cricket Pitches									
5.5.1 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 293,780	-	\$ 293,780	\$ -	\$ 29,378	\$ 264,402	\$ 264,402	\$ -
5.5.2 Markham Sports Park	2013	\$ 587,560	-	\$ 587,560	\$ -	\$ 58,756	\$ 528,804	\$ 528,804	\$ -
Subtotal Cricket Pitches		\$ 881,340	-	\$ 881,340	\$ -	\$ 88,134	\$ 793,206	\$ 793,206	\$ -
5.6 Tennis Courts - Lighted									
5.6.1 Angus Glen Community Centre Park	2013	\$ 621,716	-	\$ 621,716	\$ -	\$ 62,172	\$ 559,544	\$ 559,544	\$ -
5.6.2 Berczy Community Park	2013	\$ 310,858	-	\$ 310,858	\$ -	\$ 31,086	\$ 279,772	\$ 279,772	\$ -
5.6.3 Markham Sports Park	2013	\$ 1,865,148	-	\$ 1,865,148	\$ -	\$ 186,515	\$ 1,678,633	\$ 1,678,633	\$ -
5.6.4 Cornell Community Park	2014	\$ 932,574	-	\$ 932,574	\$ -	\$ 93,257	\$ 839,317	\$ -	\$ 839,317
5.6.5 Times-Murphy Hull Valley Edge Park N.	2018	\$ 932,574	-	\$ 932,574	\$ -	\$ 93,257	\$ 839,317	\$ -	\$ 839,317
5.6.6 Remington Markham Centre Central Park N. Phase 2	2019	\$ 932,574	-	\$ 932,574	\$ -	\$ 93,257	\$ 839,317	\$ -	\$ 839,317
5.6.7 Remington Markham Centre East Valley Edge Linear Park	2020	\$ 932,574	-	\$ 932,574	\$ -	\$ 93,257	\$ 839,317	\$ -	\$ 839,317
5.6.8 Fairtree East Village Remington Parkview Community Park E.	2021	\$ 932,574	-	\$ 932,574	\$ -	\$ 93,257	\$ 839,317	\$ -	\$ 839,317
Subtotal Tennis Courts - Lighted		\$ 7,460,592	-	\$ 7,460,592	\$ -	\$ 746,059	\$ 6,714,533	\$ 2,517,950	\$ 3,357,266



APPENDIX B.5
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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		Post 2022	
						10% Reduction	Available DC Reserves		2013-2022	2022		
5.0 PARK DEVELOPMENT & FACILITIES												
5.7 Minor Soccer - Unlighted												
5.7.1 Angus Glen West Village Valley Edge/Playground Park	2013	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.2 Boxgrove Community Park	2013	\$ 277,248	\$ -	\$ 277,248	\$ -	\$ -	\$ 27,725	\$ 249,523	\$ 249,523	\$ -	\$ -	
5.7.3 Southwest Cathedral Monarch Memorial Neighbourhood Park	2013	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.4 Southwest Cathedral Monarch Memorial Parkette	2013	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.5 Cornell Madison East Woodlot Park	2013	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.6 South Unionville Ray Street Parkette E.	2013	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.7 South Unionville Ray Street Parkette W.	2013	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.8 Markham Sports Park	2013	\$ 1,247,616	\$ -	\$ 1,247,616	\$ -	\$ -	\$ 124,762	\$ 1,122,854	\$ 1,122,854	\$ -	\$ -	
5.7.9 Berczy Northeast McCowan Parkette	2014	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.10 Cornell Community Park	2014	\$ 831,744	\$ -	\$ 831,744	\$ -	\$ -	\$ 83,174	\$ 748,570	\$ 748,570	\$ -	\$ -	
5.7.11 Greensborough Williamson NP	2014	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.12 Wismer Hwy. #48 Hemersley Woodlot Park (3 parcels)	2014	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.13 Berczy Beckett Neighbourhood Park	2015	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.14 Northwest Cathedral Neighbourhood Park N.	2015	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.15 Cornell Madison Rouge Blvd. Park	2015	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.16 Box Grove Rennie Ave NBHD Park	2016	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.17 East Cathedral Park adjacent Woodbine	2016	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.18 Remington Markham Centre East Central Parkette	2016	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.19 South Unionville Community Park W.	2016	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.20 Cornell Centre Mattamy N.P.	2017	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.21 Cornell Centre South NBHD Park (HR)	2017	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.22 Times-Murphy Hull Valley Edge Park N.	2018	\$ 277,248	\$ -	\$ 277,248	\$ -	\$ -	\$ 27,725	\$ 249,523	\$ 249,523	\$ -	\$ -	
5.7.23 Aryeh Strata Park adjacent Aryeh	2018	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.24 Fairtree East Village Forest Bay Neighbourhood Park	2019	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.25 Greensborough North Parkway N.P. West	2019	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.26 Greensborough North Parkway N.P. East	2019	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.27 Cornell Shroff Hwy. #7 and 9th Line N.P.	2020	\$ 415,872	\$ -	\$ 415,872	\$ -	\$ -	\$ 41,587	\$ 374,285	\$ 374,285	\$ -	\$ -	
5.7.28 Remington Markham Centre East Valley Edge Linear Park	2020	\$ 277,248	\$ -	\$ 277,248	\$ -	\$ -	\$ 27,725	\$ 249,523	\$ 249,523	\$ -	\$ -	
5.7.29 Main Street Milliken Armadale N.P.	2020	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.30 Fairtree East Village Remington Parkview Community Park E.	2021	\$ 554,496	\$ -	\$ 554,496	\$ -	\$ -	\$ 55,450	\$ 499,046	\$ 499,046	\$ -	\$ -	
5.7.31 Don Mills/Steeles Markhamgate Park	2021	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.32 Times-Murphy Hull Valley Edge Park N.W.	2021	\$ 277,248	\$ -	\$ 277,248	\$ -	\$ -	\$ 27,725	\$ 249,523	\$ 249,523	\$ -	\$ -	
5.7.33 Wismer Hwy. #48 Major Mackenzie Park	2021	\$ 138,624	\$ -	\$ 138,624	\$ -	\$ -	\$ 13,862	\$ 124,762	\$ 124,762	\$ -	\$ -	
5.7.34 Upper Cornell N.P.	2022	\$ 277,248	\$ -	\$ 277,248	\$ -	\$ -	\$ 27,725	\$ 249,523	\$ 249,523	\$ -	\$ -	
Subtotal Minor Soccer - Unlighted		\$ 7,901,568	\$ -	\$ 7,901,568	\$ -	\$ -	\$ 790,157	\$ 7,111,411	\$ 7,111,411	\$ 1,122,854	\$ 3,867,610	

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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		Post 2022
					Replacement & BTE Shares	10% Reduction		Available DC Reserves	2013-2022	
5.0 PARK DEVELOPMENT & FACILITIES										
5.8 Mini Soccer - Unlighted										
5.8.1 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 211,992	\$ -	\$ 211,992	\$ -	\$ 21,199	\$ 190,793	\$ 190,793	\$ -	\$ -
5.8.2 South East Markham Community Centre Park	2013	\$ 105,996	\$ -	\$ 105,996	\$ -	\$ 10,600	\$ 95,396	\$ 95,396	\$ -	\$ -
5.8.3 Greensborough Solace Rd. N.P.	2014	\$ 52,998	\$ -	\$ 52,998	\$ -	\$ 5,300	\$ 47,698	\$ -	\$ 47,698	\$ -
5.8.4 Wismer Donald Mingsy Parkette on Mingsy (4 parcels)	2014	\$ 105,996	\$ -	\$ 105,996	\$ -	\$ 10,600	\$ 95,396	\$ -	\$ 95,396	\$ -
5.8.5 Wismer Hwy. #48 Hamersley Woodlot Park (3 parcels)	2014	\$ 52,998	\$ -	\$ 52,998	\$ -	\$ 5,300	\$ 47,698	\$ -	\$ 47,698	\$ -
5.8.6 Wismer Hwy. #48 Museum North	2014	\$ 105,996	\$ -	\$ 105,996	\$ -	\$ 10,600	\$ 95,396	\$ -	\$ 95,396	\$ -
5.8.7 Berczy Beckett NW Parkette	2015	\$ 105,996	\$ -	\$ 105,996	\$ -	\$ 10,600	\$ 95,396	\$ -	\$ 95,396	\$ -
5.8.8 Liberty Markham Centre Oak Park Warden W.	2015	\$ 105,996	\$ -	\$ 105,996	\$ -	\$ 10,600	\$ 95,396	\$ -	\$ 95,396	\$ -
5.8.9 North Donald Cousins Park	2016	\$ 105,996	\$ -	\$ 105,996	\$ -	\$ 10,600	\$ 95,396	\$ -	\$ 95,396	\$ -
5.8.10 South Unionville West Greenburg Parkette	2016	\$ 52,998	\$ -	\$ 52,998	\$ -	\$ 5,300	\$ 47,698	\$ -	\$ 47,698	\$ -
5.8.11 OPA 15 Markham Centre Neighbourhood Park	2018	\$ 105,996	\$ -	\$ 105,996	\$ -	\$ 10,600	\$ 95,396	\$ -	\$ 95,396	\$ -
5.8.12 Remington Markham Centre Central Park N. Phase 2	2019	\$ 105,996	\$ -	\$ 105,996	\$ -	\$ 10,600	\$ 95,396	\$ -	\$ 95,396	\$ -
5.8.13 Dudley Park	2019	\$ 105,996	\$ -	\$ 105,996	\$ -	\$ 10,600	\$ 95,396	\$ -	\$ 95,396	\$ -
5.8.14 Woodbine Bypass Park	2020	\$ 105,996	\$ -	\$ 105,996	\$ -	\$ 10,600	\$ 95,396	\$ -	\$ 95,396	\$ -
Subtotal Mini Soccer - Unlighted		\$ 1,430,946	\$ -	\$ 1,430,946	\$ -	\$ 143,095	\$ 1,287,851	\$ 286,189	\$ 286,189	\$ 715,473
5.9 Tennis Courts - Unlighted										
5.9.1 Boxgrove Community Park	2013	\$ 446,584	\$ -	\$ 446,584	\$ -	\$ 44,658	\$ 401,926	\$ 401,926	\$ -	\$ -
5.9.2 Southwest Cathedral Monarch Memorial Neighbourhood Park	2013	\$ 223,292	\$ -	\$ 223,292	\$ -	\$ 22,329	\$ 200,963	\$ 200,963	\$ -	\$ -
5.9.3 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 223,292	\$ -	\$ 223,292	\$ -	\$ 22,329	\$ 200,963	\$ 200,963	\$ -	\$ -
5.9.4 Leitchcroft (Times) Community Park	2013	\$ 223,292	\$ -	\$ 223,292	\$ -	\$ 22,329	\$ 200,963	\$ 200,963	\$ -	\$ -
5.9.5 Berczy Beckett Neighbourhood Park	2015	\$ 223,292	\$ -	\$ 223,292	\$ -	\$ 22,329	\$ 200,963	\$ -	\$ -	\$ 200,963
5.9.6 Box Grove Rennie Ave NBHD Park	2016	\$ 223,292	\$ -	\$ 223,292	\$ -	\$ 22,329	\$ 200,963	\$ -	\$ -	\$ 200,963
5.9.7 Cornell Centre Mattamy Woodlot Park	2016	\$ 223,292	\$ -	\$ 223,292	\$ -	\$ 22,329	\$ 200,963	\$ -	\$ -	\$ 200,963
5.9.8 North Donald Cousins Park	2016	\$ 223,292	\$ -	\$ 223,292	\$ -	\$ 22,329	\$ 200,963	\$ -	\$ -	\$ 200,963
5.9.9 Remington Markham Centre Active Park East	2016	\$ 446,584	\$ -	\$ 446,584	\$ -	\$ 44,658	\$ 401,926	\$ -	\$ -	\$ 401,926
5.9.10 South Unionville Community Park W.	2018	\$ 446,584	\$ -	\$ 446,584	\$ -	\$ 44,658	\$ 401,926	\$ -	\$ -	\$ 401,926
5.9.11 Victoria Square Community Park N. Phase	2018	\$ 223,292	\$ -	\$ 223,292	\$ -	\$ 22,329	\$ 200,963	\$ -	\$ -	\$ 200,963
5.9.12 Aiyeh Strata Park adjacent Aiyeh	2018	\$ 223,292	\$ -	\$ 223,292	\$ -	\$ 22,329	\$ 200,963	\$ -	\$ -	\$ 200,963
5.9.13 Greensborough North Parkway N.P. East	2019	\$ 223,292	\$ -	\$ 223,292	\$ -	\$ 22,329	\$ 200,963	\$ -	\$ -	\$ 200,963
5.9.14 OPA 15 Markham Centre Chimenti Court Park	2019	\$ 223,292	\$ -	\$ 223,292	\$ -	\$ 22,329	\$ 200,963	\$ -	\$ -	\$ 200,963
5.9.15 Woodbine Bypass Park	2020	\$ 223,292	\$ -	\$ 223,292	\$ -	\$ 22,329	\$ 200,963	\$ -	\$ -	\$ 200,963
5.9.16 Cornell SW park	2020	\$ 223,292	\$ -	\$ 223,292	\$ -	\$ 22,329	\$ 200,963	\$ -	\$ -	\$ 200,963
5.9.17 Tridel Markham Centre Linear Park W. (West of Circa Dr.)	2020	\$ 223,292	\$ -	\$ 223,292	\$ -	\$ 22,329	\$ 200,963	\$ -	\$ -	\$ 200,963
5.9.18 Main Street Milliken Amadale N.P.	2020	\$ 223,292	\$ -	\$ 223,292	\$ -	\$ 22,329	\$ 200,963	\$ -	\$ -	\$ 200,963
5.9.19 Fairtree East Village Remington Parkview Neighbourhood Park	2021	\$ 223,292	\$ -	\$ 223,292	\$ -	\$ 22,329	\$ 200,963	\$ -	\$ -	\$ 200,963
5.9.20 Wismer Hwy. #48 Major Mackenzie Park	2021	\$ 446,584	\$ -	\$ 446,584	\$ -	\$ 44,658	\$ 401,926	\$ -	\$ -	\$ 401,926
5.9.21 Upper Cornell N.P.	2022	\$ 446,584	\$ -	\$ 446,584	\$ -	\$ 44,658	\$ 401,926	\$ -	\$ -	\$ 401,926
Subtotal Tennis Courts - Unlighted		\$ 5,805,592	\$ -	\$ 5,805,592	\$ -	\$ 580,559	\$ 5,225,033	\$ 1,004,814	\$ -	\$ 4,220,219

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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		Post 2022
						10% Reduction	DC Eligible Costs 2013-2022		Available DC Reserves	DC Eligible Costs 2013-2022	
5.0 PARK DEVELOPMENT & FACILITIES											
5.10 Basketball Courts - Half Courts											
5.10.1 Angus Glen Community Centre Park	2013	\$ 14,842	\$ -	\$ 14,842	\$ -	\$ -	\$ 1,484	\$ 13,358	\$ 13,358	\$ -	\$ -
5.10.2 Southwest Cathedral Monarch Memorial Neighbourhood Park	2013	\$ 14,842	\$ -	\$ 14,842	\$ -	\$ -	\$ 1,484	\$ 13,358	\$ 13,358	\$ -	\$ -
5.10.3 Northwest Cathedral Neighbourhood Park N.	2015	\$ 14,842	\$ -	\$ 14,842	\$ -	\$ -	\$ 1,484	\$ 13,358	\$ 13,358	\$ -	\$ 13,358
5.10.4 Liberty Markham Centre Oak Park Warden W.	2015	\$ 14,842	\$ -	\$ 14,842	\$ -	\$ -	\$ 1,484	\$ 13,358	\$ 13,358	\$ -	\$ 13,358
5.10.5 Box Grove Rennie Ave NBHD Park	2016	\$ 14,842	\$ -	\$ 14,842	\$ -	\$ -	\$ 1,484	\$ 13,358	\$ 13,358	\$ -	\$ 13,358
5.10.6 Cornell Centre Mattamy Woodlot Park	2016	\$ 14,842	\$ -	\$ 14,842	\$ -	\$ -	\$ 1,484	\$ 13,358	\$ 13,358	\$ -	\$ 13,358
5.10.7 South Unionville Community Park W.	2016	\$ 14,842	\$ -	\$ 14,842	\$ -	\$ -	\$ 1,484	\$ 13,358	\$ 13,358	\$ -	\$ 13,358
5.10.8 Wismer Alexander Lowrey Neighbourhood Park East	2016	\$ 14,842	\$ -	\$ 14,842	\$ -	\$ -	\$ 1,484	\$ 13,358	\$ 13,358	\$ -	\$ 13,358
5.10.9 Victoria Square Community Park N. Phase	2018	\$ 14,842	\$ -	\$ 14,842	\$ -	\$ -	\$ 1,484	\$ 13,358	\$ 13,358	\$ -	\$ 13,358
5.10.10 PA 15 Markham Centre Chimenti Court Park	2019	\$ 14,842	\$ -	\$ 14,842	\$ -	\$ -	\$ 1,484	\$ 13,358	\$ 13,358	\$ -	\$ 13,358
5.10.11 Dudley Park	2019	\$ 14,842	\$ -	\$ 14,842	\$ -	\$ -	\$ 1,484	\$ 13,358	\$ 13,358	\$ -	\$ 13,358
5.10.12 Cornell SW park	2020	\$ 14,842	\$ -	\$ 14,842	\$ -	\$ -	\$ 1,484	\$ 13,358	\$ 13,358	\$ -	\$ 13,358
5.10.13 Wismer Hwy. #48 Major Mackenzie Park	2021	\$ 14,842	\$ -	\$ 14,842	\$ -	\$ -	\$ 1,484	\$ 13,358	\$ 13,358	\$ -	\$ 13,358
5.10.14 Upper Cornell N.P.	2022	\$ 14,842	\$ -	\$ 14,842	\$ -	\$ -	\$ 1,484	\$ 13,358	\$ 13,358	\$ -	\$ 13,358
Subtotal Basketball Courts - Half Courts		\$ 207,788	\$ -	\$ 207,788	\$ -	\$ -	\$ 20,779	\$ 187,009	\$ 26,714	\$ -	\$ 160,294
5.11 Basketball Courts - Full Courts											
5.11.1 Boxgrove Community Park	2013	\$ 29,682	\$ -	\$ 29,682	\$ -	\$ -	\$ 2,968	\$ 26,714	\$ 26,714	\$ -	\$ -
5.11.2 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 29,682	\$ -	\$ 29,682	\$ -	\$ -	\$ 2,968	\$ 26,714	\$ 26,714	\$ -	\$ -
5.11.3 South East Markham Community Centre Park	2013	\$ 59,364	\$ -	\$ 59,364	\$ -	\$ -	\$ 5,936	\$ 53,428	\$ 53,428	\$ -	\$ -
5.11.4 Markham Sports Park	2013	\$ 118,728	\$ -	\$ 118,728	\$ -	\$ -	\$ 11,873	\$ 106,855	\$ 106,855	\$ -	\$ -
5.11.5 Cornell Community Park	2014	\$ 59,364	\$ -	\$ 59,364	\$ -	\$ -	\$ 5,936	\$ 53,428	\$ 53,428	\$ -	\$ -
5.11.6 Greensborough Alfred Patterson Neighbourhood Park	2015	\$ 29,682	\$ -	\$ 29,682	\$ -	\$ -	\$ 2,968	\$ 26,714	\$ 26,714	\$ -	\$ 26,714
5.11.7 Cornell Secondary School Neighbourhood Park	2016	\$ 29,682	\$ -	\$ 29,682	\$ -	\$ -	\$ 2,968	\$ 26,714	\$ 26,714	\$ -	\$ 26,714
5.11.8 Victoria Square Community Park N. Phase	2018	\$ 29,682	\$ -	\$ 29,682	\$ -	\$ -	\$ 2,968	\$ 26,714	\$ 26,714	\$ -	\$ 26,714
5.11.9 Times-Murphy Hull Valley Edge Park N.	2018	\$ 59,364	\$ -	\$ 59,364	\$ -	\$ -	\$ 5,936	\$ 53,428	\$ 53,428	\$ -	\$ 53,428
5.11.10 Remington Markham Centre Central Park N. Phase 2	2019	\$ 29,682	\$ -	\$ 29,682	\$ -	\$ -	\$ 2,968	\$ 26,714	\$ 26,714	\$ -	\$ 26,714
5.11.11 Fairtree East Village Remington Parkview Community Park E.	2021	\$ 29,682	\$ -	\$ 29,682	\$ -	\$ -	\$ 2,968	\$ 26,714	\$ 26,714	\$ -	\$ 26,714
5.11.12 Times-Murphy Hull Valley Edge Park N.W.	2021	\$ 29,682	\$ -	\$ 29,682	\$ -	\$ -	\$ 2,968	\$ 26,714	\$ 26,714	\$ -	\$ 26,714
Subtotal Basketball Courts - Full Courts		\$ 534,276	\$ -	\$ 534,276	\$ -	\$ -	\$ 53,428	\$ 480,848	\$ 213,710	\$ 53,428	\$ 213,710



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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		Post 2022
					Replacement & BTE Shares	10% Reduction		Available DC Reserves	2013-2022	
5.0 PARK DEVELOPMENT & FACILITIES										
5.12 Minor Waterplay										
5.12.1 Berczy Community Park: Waterplay	2013	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ -
5.12.2 Southwest Cathedral Monarch Memorial Neighbourhood Park	2013	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ -
5.12.3 Markham Sports Park	2013	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ -
5.12.4 World on Yonge: Central Parkette	2013	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ -
5.12.5 Cornell Community Park	2014	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ -
5.12.6 Greensborough Alfred Patterson Neighbourhood Park	2015	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ 162,540
5.12.7 Box Grove Rennie Ave NBHD Park	2016	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ 162,540
5.12.8 Remington Markham Centre Active Park East	2016	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ 162,540
5.12.9 South Unionville Community Park W.	2016	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ 162,540
5.12.10 Wismer Alexander Lowrey Neighbourhood Park West	2016	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ 162,540
5.12.11 East Precinct Markham Centre N. Parkette	2017	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ 162,540
5.12.12 Times-Murphy Hull Valley Edge Park N.	2018	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ 162,540
5.12.13 Anyeh Strata Park adjacent Anyeh	2018	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ 162,540
5.12.14 Cornell Madison South Woodlot Park	2019	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ 162,540
5.12.15 Times-Murphy Hull Valley Edge Park E.	2019	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ 162,540
5.12.16 Cornell SW park	2020	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ 162,540
5.12.17 Remington Markham Centre East Valley Edge Linear Park	2020	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ 162,540
5.12.18 Wismer Hwy. #48 Major Mackenzie Park	2021	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ 162,540
5.12.19 Upper Cornell N.P.	2022	\$ 180,600	\$ -	\$ 180,600	\$ -	\$ 18,060	\$ 162,540	\$ 162,540	\$ -	\$ 162,540
Subtotal Minor Waterplay		\$ 3,431,400	\$ -	\$ 3,431,400	\$ -	\$ 343,140	\$ 3,088,260	\$ 650,160	\$ 162,540	\$ 2,275,560



APPENDIX B.5
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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		Post 2022
					Replacement & BTE Shares	10% Reduction		Available DC Reserves	2013-2022	
5.0 PARK DEVELOPMENT & FACILITIES										
5.13 Major Waterplay										
5.13.1 Angus Glen Community Centre Park	2013	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.2 Boxgrove Community Park	2013	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.3 Boxgrove Hill South East Parkette	2013	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.4 Berczy Community Park	2013	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.5 Victoria Square Community Park S. Phase Playground and Waterplay	2013	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.6 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.7 South East Markham Community Centre Park	2013	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.8 Leitchcroft (Times) Community Park	2013	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.9 Markham Sports Park	2013	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.10 World on Yonge: Meadowdale Ave. Park	2013	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.11 World on Yonge: Yonge Parkette	2013	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.12 Remington Markham Centre Heritage House Parkette (2 parcels)	2013	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.13 Cornell Community Park	2014	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.14 Liberty Markham Centre Oak Park Warden W.	2015	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.15 Times-Murphy Hull Hwy. #7 Window Park	2015	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.16 Cornell Centre Mattamy Woodlot Park	2016	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.17 North Cousins Park	2016	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.18 Cornell Centre South NBHD Park (HR)	2017	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.19 Remington Markham Centre Central Park S.	2017	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.20 OPA 15 Markham Centre Neighbourhood Park	2018	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.21 OPA 15 Markham Centre Village Parkway Town Square	2018	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.22 Remington Markham Centre Central Park N. Phase 2	2019	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.23 Times-Murphy Hull Valley Edge Park S.	2019	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.24 OPA 15 Markham Centre Chimenti Court Park	2019	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.25 Dudley Park	2020	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.26 Tridel Markham Centre Linear Park W. (West of Circa Dr.)	2020	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.27 Main Street Milliken Armadale N.P.	2021	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.28 Fairtree East Village Remington Parkway Community Park E.	2021	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.29 Times-Murphy Hull Valley Edge Park N.W.	2021	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
5.13.30 Times-Murphy Hull Warden & Hwy. #7 Oval Parkette	2022	\$ 397,320	\$ -	\$ 397,320	\$ -	\$ 39,732	\$ 357,588	\$ 357,588	\$ -	\$ -
Subtotal Major Waterplay		\$ 11,919,600	\$ -	\$ 11,919,600	\$ -	\$ 1,191,960	\$ 10,727,640	\$ 10,727,640	\$ 4,291,056	\$ 357,588
										\$ 6,078,996

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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs	
					Replacement & BTE Shares	10% Reduction		Available DC Reserves	2013-2022
5.0 PARK DEVELOPMENT & FACILITIES									
5.14 Playgrounds (Senior & Junior)									
5.14.1 Angus Glen Community Centre Park	2013	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.2 Angus Glen West Village Valley Edge/Playground Park	2013	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.3 Angus Glen West Village Central Green	2013	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.4 Boxgrove Community Park	2013	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.5 Boxgrove Southeast Heritage House Parkette	2013	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.6 Victoria Square Community Park S. Phase Playground and Waterplay	2013	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.7 Southwest Cathedral Monarch Memorial Neighbourhood Park	2013	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.8 Cornell Madison East Woodlot Park	2013	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.9 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.10 South East Markham Community Centre Park	2013	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.11 South Unionville Ray Street Parkette E.	2013	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.12 Markham Sports Park	2013	\$ 296,831	\$ -	\$ 296,831	\$ -	\$ 29,683	\$ 267,148	\$ 267,148	\$ -
5.14.13 World on Yonge: Meadowdale Ave. Park	2013	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.14 Remington Markham Centre Heritage House Parkette (2 parcels)	2013	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.15 Berczy Northeast McCowan Parkette	2014	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.16 Cornell Community Park	2014	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.17 Cornell Mattamy Cornell Park Ave. N.P.	2014	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.18 Leitchcroft Community Park Phase 2 (Western park addition)	2014	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.19 Main St Milliken NW Parkette (Cotton Lane)	2014	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.20 Wismer Hwy. #48 Hamersley Woodlot Park (3 parcels)	2014	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.21 Berczy Beckett East Parkette	2015	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.22 Berczy Beckett Neighbourhood Park	2015	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.23 Berczy Beckett East Parkette	2015	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.24 Berczy Beckett NW Parkette	2015	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.25 Berczy Beckett NW Parkette	2015	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.26 Berczy Beckett NE Parkette	2015	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.27 Northwest Cathedral Neighbourhood Park S.	2015	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.28 Cornell Madison Urban Parkette	2015	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.29 John Daniels - Phase 2 (Fairy Park)	2015	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.30 Greensborough Alfred Patterson Neighbourhood Park	2015	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.31 East Cathedral Park adjacent Woodbine	2016	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.32 Cornell Secondary School Neighbourhood Park	2016	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.33 Remnant Woodlot Parkette	2016	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.34 Remington Markham Centre East Central Parkette	2016	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -
5.14.35 Cornell Centre Mattamy N.P.	2017	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ 133,574	\$ -

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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		
					Replacement & BTE Shares	10% Reduction		Available DC Reserves	2013-2022	Post 2022
5.0 PARK DEVELOPMENT & FACILITIES										
5.14 Playgrounds (Senior & Junior)										
5.14.36 Remington Markham Centre Central Park S.	2017	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ -	\$ -	\$ 133,574
5.14.37 East Precinct Markham Centre N. Parkette	2017	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ -	\$ -	\$ 133,574
5.14.38 Heritage Park adjacent Ayrish Strata Park	2018	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ -	\$ -	\$ 133,574
5.14.39 Cornell Madison South Woodlot Park	2019	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ -	\$ -	\$ 133,574
5.14.40 Cornell Madison South Woodlot Park	2019	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ -	\$ -	\$ 133,574
5.14.41 Greensborough North Parkway N.P. West	2019	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ -	\$ -	\$ 133,574
5.14.42 Greensborough North Parkway N.P. East	2019	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ -	\$ -	\$ 133,574
5.14.43 Times-Murphy Hill Valley Edge Park S.	2019	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ -	\$ -	\$ 133,574
5.14.44 Cornhill Hwy. #7 and 9th Line N.P.	2020	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ -	\$ -	\$ 133,574
5.14.45 Tridel Markham Centre Linear Park W. (West of Phase 2, East of Circa Dr.)	2020	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ -	\$ -	\$ 133,574
5.14.46 H & R Grand Cornell Southwest Woodlot N. P.	2021	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ -	\$ -	\$ 133,574
5.14.47 Fairtree East Village Remington Parkway Community Park E.	2021	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ -	\$ -	\$ 133,574
5.14.48 Fairtree East Village Remington Parkway Neighbourhood Park	2021	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ -	\$ -	\$ 133,574
5.14.49 Wismer Hwy. #48 Major Mackenzie Park	2021	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ -	\$ -	\$ 133,574
5.14.50 Upper Cornell N.P.	2022	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ -	\$ -	\$ 133,574
5.14.51 Yonge/Steeles Morgan Ave. Parkette	2022	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ -	\$ -	\$ 133,574
5.14.52 Yonge/Steeles Highland Park Ave. Parkette N.	2022	\$ 148,416	\$ -	\$ 148,416	\$ -	\$ 14,842	\$ 133,574	\$ -	\$ -	\$ 133,574
Subtotal Playgrounds (Senior & Junior)		\$ 8,014,445	\$ -	\$ 8,014,445	\$ -	\$ 801,444	\$ 7,213,000	\$ 2,003,611	\$ 935,019	\$ 4,274,370
5.15 Playgrounds (Senior)										
5.15.1 Angus Glen Community Centre Park	2013	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ 10,115	\$ 91,035	\$ 91,035	\$ -	\$ -
5.15.2 Boxgrove Community Park	2013	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ 10,115	\$ 91,035	\$ 91,035	\$ -	\$ -
5.15.3 Boxgrove Hill South East Parkette	2013	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ 10,115	\$ 91,035	\$ 91,035	\$ -	\$ -
5.15.4 Victoria Square Community Park S. Phase Playground and Waterplay	2013	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ 10,115	\$ 91,035	\$ 91,035	\$ -	\$ -
5.15.5 Southwest Cathedral Monarch Memorial Parkette	2013	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ 10,115	\$ 91,035	\$ 91,035	\$ -	\$ -
5.15.6 Cornell Madison East Woodlot Park	2013	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ 10,115	\$ 91,035	\$ 91,035	\$ -	\$ -
5.15.7 H&R Grand Cornell Linear Finger Park	2013	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ 10,115	\$ 91,035	\$ 91,035	\$ -	\$ -
5.15.8 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ 10,115	\$ 91,035	\$ 91,035	\$ -	\$ -
5.15.9 South East Markham Community Centre Park	2013	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ 10,115	\$ 91,035	\$ 91,035	\$ -	\$ -
5.15.10 South Unionville Ray Street Parkette W.	2013	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ 10,115	\$ 91,035	\$ 91,035	\$ -	\$ -
5.15.11 Tridel Markham Centre Linear Park E. (East of Circa - Phase 2 only)	2013	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ 10,115	\$ 91,035	\$ 91,035	\$ -	\$ -
5.15.12 Markham Sports Park	2013	\$ 202,301	\$ -	\$ 202,301	\$ -	\$ 20,230	\$ 182,071	\$ 182,071	\$ -	\$ -
5.15.13 World on Yonge: Central Parkette	2013	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ 10,115	\$ 91,035	\$ 91,035	\$ -	\$ -
5.15.14 Angus Glen West Village Parkette	2014	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ 10,115	\$ 91,035	\$ -	\$ 91,035	\$ -
5.15.15 Cornell Community Park	2014	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ 10,115	\$ 91,035	\$ -	\$ 91,035	\$ -
5.15.16 Greensborough Williamson NP	2014	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ 10,115	\$ 91,035	\$ -	\$ 91,035	\$ -
5.15.17 Greensborough Solace Rd. N.P.	2014	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ 10,115	\$ 91,035	\$ -	\$ 91,035	\$ -



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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs	10% Reduction	Total DC Eligible Costs	DC Eligible Costs		Post 2022	
									Available DC Reserves	2013-2022		
5.0 PARK DEVELOPMENT & FACILITIES												
5.15 Playgrounds (Senior)												
5.15.1E Wismer Greenspire North Central Parkette	2014	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ -
5.15.1F Wismer Donald Mingay Parkette on Mingay (4 parcels)	2014	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ -
5.15.2C Wismer Hwy. #48 Museum North	2014	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ -
5.15.2I Elgin St. Honsburger Park	2014	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ -
5.15.2J Berczy Park near Prince Charles Way	2015	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.2K Northwest Cathedral Neighbourhood Park N.	2015	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.2L Cornell Community Centre Square	2015	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.2M Cornell Mattamy East Church Street Parkette	2015	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.2N Cornell Madison Rouge Blvd. Park	2015	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.2O Cornell Madison Rouge Blvd. Park S.	2015	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.2P Swan Lake Park Block 31	2015	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.2Q Liberty Markham Centre Oak Park Warden W.	2015	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.3C Times-Murphy Hull Hwy. #7 Window Park	2015	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.3I Wismer McCowan Woodlot Park (4 parcels)	2015	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.3J Box Grove Rennie Ave NBHD Park	2016	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.3K Cornell Centre Mattamy Woodlot Park	2016	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.3L North Donald Cousins Park	2016	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.3M Remington Markham Centre Active Park East	2016	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.3N Remington Markham Centre East Central Parkette	2016	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.3O South Unionville Community Park W.	2016	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.3P Wismer Alexander Lowrey Neighbourhood Park West	2016	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.4F Wismer Alexander Lowrey Neighbourhood Park East	2016	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.4C Cornell Centre South NBHD Park (HR)	2017	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.4I Victoria Square Community Park N. Phase	2018	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.4J Times-Murphy Hull Valley Edge Park N.	2018	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.4K OPA 15 Markham Centre Neighbourhood Park	2018	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.4L OPA 15 Markham Centre Village Parkway Town Square	2018	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.4E Ayebeh Strata Park adjacent Ayebeh	2018	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.4F Angus Glen West Village Riverside Park W.	2019	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.4G Fairtree East Village Forest Bay Neighbourhood Park	2019	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.4H Remington Markham Centre Central Park N. Phase 2	2019	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.4I OPA 15 Markham Centre Chimenti Court Park	2019	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.5C Wismer Hwy. #48 Anderson Ave. Park	2019	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.5I Dudley Park	2019	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.5J Woodbine Bypass Park	2020	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.5K Cornell SW park	2020	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.5L John St Community Park (South/east of Cottonwood Ct)	2020	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.5F Tridel Markham Centre Linear Park W. (West of Circa Dr.)	2020	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035
5.15.5G Remington Markham Centre East Valley Edge Linear Park	2020	\$ 101,150	\$ -	\$ 101,150	\$ -	\$ -	10,115	\$ 91,035	\$ -	\$ 91,035	\$ -	\$ 91,035

APPENDIX B.5
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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		
					Replacement & BTE Shares	10% Reduction		Available DC Reserves	2013-2022	
5.0 PARK DEVELOPMENT & FACILITIES										
5.15 Playgrounds (Senior)										
5.15.57 East Warden at Clegg Road Park NE side	2020	\$ 101,150	-	\$ 101,150	-	\$ 10,115	\$ 91,035	\$ -	\$ -	\$ 91,035
5.15.58 Main Street Milliken Armadale N.P.	2020	\$ 101,150	-	\$ 101,150	-	\$ 10,115	\$ 91,035	\$ -	\$ -	\$ 91,035
5.15.59 Main Street Milliken SW Parkette	2020	\$ 101,150	-	\$ 101,150	-	\$ 10,115	\$ 91,035	\$ -	\$ -	\$ 91,035
5.15.60 Fairtree East Village Forest Bay Community Park W. (Pair w/FAIR-7)	2021	\$ 101,150	-	\$ 101,150	-	\$ 10,115	\$ 91,035	\$ -	\$ -	\$ 91,035
5.15.61 Fairtree East Village Remington Park/View Parkette	2021	\$ 101,150	-	\$ 101,150	-	\$ 10,115	\$ 91,035	\$ -	\$ -	\$ 91,035
5.15.62 Don Mills/Steeles Markhamgate Park	2021	\$ 101,150	-	\$ 101,150	-	\$ 10,115	\$ 91,035	\$ -	\$ -	\$ 91,035
5.15.63 Times-Murphy Hill Valley Edge Park N.W.	2021	\$ 101,150	-	\$ 101,150	-	\$ 10,115	\$ 91,035	\$ -	\$ -	\$ 91,035
5.15.64 Times-Murphy Hill Warden & Hwy. #7 Oval Parkette	2022	\$ 101,150	-	\$ 101,150	-	\$ 10,115	\$ 91,035	\$ -	\$ -	\$ 91,035
5.15.65 Yonge/Steeles Grandview Ave. Parkette	2022	\$ 101,150	-	\$ 101,150	-	\$ 10,115	\$ 91,035	\$ -	\$ -	\$ 91,035
5.15.66 Yonge/Steeles Woodward Ave. Parkette	2022	\$ 101,150	-	\$ 101,150	-	\$ 10,115	\$ 91,035	\$ -	\$ -	\$ 91,035
Subtotal Playgrounds (Senior)		\$ 6,777,080	-	\$ 6,777,080	-	\$ 677,708	\$ 6,099,372	\$ 1,274,496	\$ 728,283	\$ 4,096,593
5.16 Playgrounds (Junior)										
5.16.1 Angus Glen Community Centre Park	2013	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ 65,280	\$ -	\$ -
5.16.2 Angus Glen West Village Triangle Parkette	2013	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ 65,280	\$ -	\$ -
5.16.3 Angus Glen West Village Valley Edge/Playground Park	2013	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ 65,280	\$ -	\$ -
5.16.4 Boxgrove Hill South East Parkette	2013	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ 65,280	\$ -	\$ -
5.16.5 Kentview Parkette (with Box-9)	2013	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ 65,280	\$ -	\$ -
5.16.6 Southwest Cathedral Monarch Memorial Parkette	2013	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ 65,280	\$ -	\$ -
5.16.7 H&R Grand Cornell Linear Finger Park	2013	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ 65,280	\$ -	\$ -
5.16.8 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ 65,280	\$ -	\$ -
5.16.9 Markham Sports Park	2013	\$ 145,067	-	\$ 145,067	-	\$ 14,507	\$ 130,560	\$ 130,560	\$ -	\$ -
5.16.10 World on Yonge: Yonge Parkette	2013	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ 65,280	\$ -	\$ -
5.16.11 World on Yonge: Central Parkette	2013	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ 65,280	\$ -	\$ -
5.16.12 Cornell Community Park	2014	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ -	\$ 65,280	\$ -
5.16.13 Cornell Madison Rouge/Riverlands	2014	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ -	\$ 65,280	\$ -
5.16.14 Cornell Madison Rouge/Riverlands	2014	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ -	\$ 65,280	\$ -
5.16.15 Greensborough Williamson NP	2014	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ -	\$ 65,280	\$ -
5.16.16 Greensborough Solos Rd. N.P.	2014	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ -	\$ 65,280	\$ -
5.16.17 Wismer Greenspire North Central Parkette	2014	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ -	\$ 65,280	\$ -
5.16.18 Wismer Donald Mingay Parkette on Mingay (4 parcels)	2014	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ -	\$ 65,280	\$ -
5.16.19 Wismer Hwy. #48 Museum North	2014	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ -	\$ 65,280	\$ -
5.16.20 Elgin St. Horsburger Park	2014	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ -	\$ 65,280	\$ -
5.16.21 Cornell Mattamy East Church Street Parkette	2015	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ -	\$ 65,280	\$ -
5.16.22 Cornell Madison Rouge Blvd. Park S.	2015	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ -	\$ 65,280	\$ -
5.16.23 Swan Lake Park Block 31	2015	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ -	\$ 65,280	\$ -
5.16.24 Liberty Markham Centre Oak Park Warden W.	2015	\$ 72,533	-	\$ 72,533	-	\$ 7,253	\$ 65,280	\$ -	\$ 65,280	\$ -



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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs 10% Reduction	Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs 2013-2022	Post 2022
5.0 PARK DEVELOPMENT & FACILITIES										
5.16 Playgrounds (Junior)										
5.16.2:Times-Murphy Hull Hwy. #7 Window Park	2015	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.2:Wismer McCowan Woodlot Park (4 parcels)	2015	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.2:Box Grove Rennie Ave NBHD Park	2016	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.2:Connell Centre Maitamy Woodlot Park	2016	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.2:North Donald Cousins Park	2016	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.3:Remington Markham Centre Active Park East	2016	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.3:Remington Markham Centre East Central Parkette	2016	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.3:South Unionville West Greenburg Parkette	2016	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.3:Wismer Alexander Lowrey Neighbourhood Park West	2016	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.3:Wismer Alexander Lowrey Neighbourhood Park East	2016	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.3:Boxgrove Hill East Parkette	2017	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.3:Connell Centre South NBHD Park (HR)	2017	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.3:Remington Markham Centre Central Park S.	2017	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.3:Remington Markham Centre N.E. Valley Edge Parkette	2017	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.3:Main Street Milliken NW Parkette	2017	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.4:Times-Murphy Hull Valley Edge Park N.	2018	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.4:TOPA 15 Markham Centre Neighbourhood Park	2018	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.4:Anych Strata Park adjacent Anych	2018	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.4:Yonge/John St. Parkette	2018	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.4:Yonge/Colbourne St. Parkette	2018	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.4:Angus Glen West Village Riverside Park W.	2019	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.4:Fairtree East Village Forest Bay Neighbourhood Park	2019	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.4:Remington Markham Centre Central Park N. Phase 2	2019	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.4:Times-Murphy Hull Valley Edge Park S.	2019	\$ 145,067	\$ -	\$ 145,067	\$ -	\$ 14,507	\$ 130,560	\$ -	\$ -	\$ 130,560
5.16.4:Times-Murphy Hull Valley Edge Park E.	2019	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.5:TOPA 15 Markham Centre Chiment Court Park	2019	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.5:Dudley Park	2019	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.5:Woodbine Bypass Park	2020	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.5:Connell SW park	2020	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.5:John St Community Park (South/east of Cottonwood Cr.)	2020	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.5:Tridel Markham Centre Linear Park W. (West of Circa Dr.)	2020	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.5:East Precinct Markham Centre S. Parkette	2020	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.5:East Warden at Clegg Road Park NE side	2020	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.5:Main Street Milliken Armadale N.P.	2020	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.5:Main Street Milliken SE Parkette	2020	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.6:Fairtree East Village Remington Parkview Parkette	2021	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.6:Times-Murphy Hull Valley Edge Park N.W.	2021	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.6:Upper Connell N.P.	2022	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.6:Times-Murphy Hull Warden & Hwy. #7 Oval Parkette	2022	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.6:Yonge/Steeles Highland Park Ave. Parkette N.	2022	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
5.16.6:Yonge/Steeles Highland Park Ave. Parkette S.	2022	\$ 72,533	\$ -	\$ 72,533	\$ -	\$ 7,253	\$ 65,280	\$ -	\$ -	\$ 65,280
Subtotal Playgrounds (Junior)		\$ 4,859,731	\$ -	\$ 4,859,731	\$ -	\$ 485,973	\$ 4,373,758	\$ 783,360	\$ 587,520	\$ 3,002,878



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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs - 10% Reduction	Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs 2013-2022	Post 2022
5.0 PARK DEVELOPMENT & FACILITIES										
5.17 Major Gazebos/Shelters										
5.17.1: Angus Glen Community Centre Park	2013	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.2: Angus Glen West Village Valley Edge/Playground Park	2013	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.3: Angus Glen West Village Central Green	2013	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.4: Boxgrove Community Park	2013	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.5: Boxgrove Hill South East Parkette	2013	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.6: Boxgrove Southeast Heritage House Parkette	2013	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.7: Victoria Square Community Park S. Phase Playground and Waterpla	2013	\$ 462,336	\$ -	\$ 462,336	\$ -	\$ 46,234	\$ 416,102	\$ 416,102	\$ -	\$ -
5.17.8: Southwest Cathedral Monarch Memorial Neighbourhood Park	2013	\$ 462,336	\$ -	\$ 462,336	\$ -	\$ 46,234	\$ 416,102	\$ 416,102	\$ -	\$ -
5.17.9: Southwest Cathedral Monarch Memorial Parkette	2013	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.10: Cornell Madison East Woodlot Park	2013	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.11: Kirkham Park (South East Markham Community Centre Park)	2013	\$ 924,672	\$ -	\$ 924,672	\$ -	\$ 92,467	\$ 832,205	\$ 832,205	\$ -	\$ -
5.17.12: South East Markham Community Centre Park	2013	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.13: Leitchcroft (Times) Community Park	2013	\$ 462,336	\$ -	\$ 462,336	\$ -	\$ 46,234	\$ 416,102	\$ 416,102	\$ -	\$ -
5.17.14: South Unionville Ray Street Parkette E.	2013	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.15: Tridel Markham Centre Linear Park E. (East of Cica - Phase 2 only)	2013	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.16: Markham Sports Park	2013	\$ 924,672	\$ -	\$ 924,672	\$ -	\$ 92,467	\$ 832,205	\$ 832,205	\$ -	\$ -
5.17.17: World on Yonge: Meadowdale Ave. Park	2013	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.18: World on Yonge: Yonge Parkette	2013	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.19: Remington Markham Centre Heritage House Parkette (2 parcels)	2013	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.20: Berczy Northeast McCowan Parkette	2014	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.21: Berczy Community Park	2014	\$ 462,336	\$ -	\$ 462,336	\$ -	\$ 46,234	\$ 416,102	\$ 416,102	\$ -	\$ -
5.17.22: Cornell Mattamy Cornell Park Ave. N.P.	2014	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.23: Greenborough Williamson NP	2014	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.24: Leitchcroft Community Park Phase 2 (Western park addition)	2014	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.25: Wismer Greenspire North Central Parkette	2014	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.26: Wismer Donald Mingsay Parkette on Mingsay (4 parcels)	2014	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.27: Wismer Hwy. #48 Hamersley Woodlot Park (3 parcels)	2014	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.28: Wismer Hwy. #48 Museum North	2014	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ -
5.17.29: Berczy Beckett East Parkette	2015	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ 208,051
5.17.30: Berczy Beckett Neighbourhood Park	2015	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ 208,051
5.17.31: Berczy Beckett East Parkette	2015	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ 208,051
5.17.32: Berczy Beckett NW Parkette	2015	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ 208,051
5.17.33: Northwest Cathedral Neighbourhood Park S.	2015	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ 208,051
5.17.34: Northwest Cathedral Neighbourhood Park N.	2015	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ 208,051
5.17.35: Cornell Mattamy East Church Street Parkette	2015	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ 208,051
5.17.36: Cornell Madison Rouge Blvd. Park S.	2015	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ 208,051
5.17.37: Cornell Madison Urban Parkette	2015	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ 208,051
5.17.38: Greenborough Alfred Patterson Neighbourhood Park	2015	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ 208,051
5.17.39: Swan Lake Park Block 31	2015	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ 208,051
5.17.40: Liberty Markham Centre Oak Park Warden W.	2015	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ 208,051
5.17.41: Box Grove Rennie Ave NBHD Park	2016	\$ 231,168	\$ -	\$ 231,168	\$ -	\$ 23,117	\$ 208,051	\$ 208,051	\$ -	\$ 208,051



APPENDIX B.5
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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		Post 2022	
						10% Reduction	Available DC Reserves		2013-2022			
5.0 PARK DEVELOPMENT & FACILITIES												
5.17 Major Gazebos/Shelters												
5.17.4: East Cathedral Park adjacent Woodbine	2016	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.4: Cornell Secondary School Neighbourhood Park	2016	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.4: Cornell Centre Matamy Woodlot Park	2016	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.4: North Donald Cousins Park	2016	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.4: Remington Markham Centre Active Park East	2016	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.4: Remington Markham Centre East Central Parkette	2016	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.4: South Unionville Community Park W.	2016	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.4: Wismer Alexander Lowrey Neighbourhood Park West	2016	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.5: Woodbine North Entry Park (SW corner)	2017	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.5: Woodbine North Entry Park (SE corner)	2017	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.5: Cornell Centre Matamy N.P.	2017	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.5: Cornell Centre South NBHD Park (HR)	2017	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.5: Remington Markham Centre Central Park S.	2017	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.5: Victoria Square Community Park N. Phase	2018	\$ 462,336	-	\$ 462,336	-	-	\$ 46,234	\$ 416,102	-	\$	\$	416,102
5.17.5: H & R Grand Cornell South Valley Edge Park East and West Banks	2018	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.5: Times-Murphy Hull Valley Edge Park N.	2018	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.5: OPA 15 Markham Centre Neighbourhood Park	2018	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.5: Highway No. 7 & Warden Ave. Park	2018	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.6: Angus Glen West Village Riverside Park W.	2019	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.6: Cornell Madison South Woodlot Park	2019	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.6: Greensborough North Parkway N.P. West	2019	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.6: Greensborough North Parkway N.P. East	2019	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.6: Remington Markham Centre Central Park N. Phase 2	2019	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.6: OPA 15 Markham Centre Chimenti Court Park	2019	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.6: Dudley Park	2019	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.6: Woodbine Bypass Park	2020	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.6: Cornell Shroff Hwy. #7 and 8th Line N.P.	2020	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.6: John St Community Park (Southeast of Cottonwood Cr)	2020	\$ 462,336	-	\$ 462,336	-	-	\$ 46,234	\$ 416,102	-	\$	\$	416,102
5.17.7: Tidel Markham Centre Linear Park W. (West of Circa Dr.)	2020	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.7: East Precinct Markham Centre S. Parkette	2020	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.7: Tidel Markham Centre Linear Park W. (West of Phase 2, East of Clegg Road)	2020	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.7: East Warden at Clegg Road Park NE side	2020	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.7: Main Street Milliken Armada N.P.	2020	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.7: H & R Grand Cornell Southwest Woodlot N. P.	2021	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.7: Fairtree East Village Remington Parkview Community Park E.	2021	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.7: Fairtree East Village Remington Parkview Parkette	2021	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.7: Don Mills/Steeles Markhamgate Park	2021	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.7: Times-Murphy Hull Valley Edge Park N.W.	2021	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.8: Wismer Hwy. #48 Major Mackenzie Park	2021	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.8: Upper Cornell N.P.	2022	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.8: Yonge/Steeles Morgan Ave. Parkette	2022	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
5.17.8: Yonge/Steeles Highland Park Ave. Parkette N.	2022	\$ 231,168	-	\$ 231,168	-	-	\$ 23,117	\$ 208,051	-	\$	\$	208,051
Subtotal Major Gazebos/Shelters		\$ 21,960,960	-	\$ 21,960,960	-	-	\$ 2,196,096	\$ 19,764,864	\$ 5,825,434	\$ 2,080,512	\$	11,858,918



APPENDIX B.5
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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs	
					Replacement & BTE Shares	10% Reduction		Available DC Reserves	2013-2022
5.0 PARK DEVELOPMENT & FACILITIES									
5.18 Minor Gazebos/Shelters									
5.18.1 Angus Glen Community Centre Park	2013	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.2 Angus Glen West Village Parkette	2013	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.3 Angus Glen West Village Central Green	2013	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.4 Boxgrove Community Park	2013	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.5 Boxgrove Southeast Heritage House Parkette	2013	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.6 Kentview Parkette (with Box-9)	2013	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.7 Southwest Cathedral Monarch Memorial Neighbourhood Park	2013	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.8 Southwest Cathedral Monarch Memorial Parkette	2013	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.9 Cornell Madison East Woodlot Park	2013	\$ 144,480	\$ -	\$ 144,480	\$ -	\$ 14,448	\$ 130,032	\$ 130,032	\$ -
5.18.10 Golden Jubilee (Flanking Northvale)	2013	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.11H&R Grand Cornell Linear Finger Park	2013	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.12 Villages of Fairtree Community Park: Washroom Pavilion	2013	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.13 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 144,480	\$ -	\$ 144,480	\$ -	\$ 14,448	\$ 130,032	\$ 130,032	\$ -
5.18.14 South East Markham Community Centre Park	2013	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.15 Leitchcroft (Times) Community Park	2013	\$ 144,480	\$ -	\$ 144,480	\$ -	\$ 14,448	\$ 130,032	\$ 130,032	\$ -
5.18.16 South Unionville Ray Street Parkette E.	2013	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.17 South Unionville Ray Street Parkette W.	2013	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.18 Remington Markham Centre Civic Mall Phase 1	2013	\$ 144,480	\$ -	\$ 144,480	\$ -	\$ 14,448	\$ 130,032	\$ 130,032	\$ -
5.18.19 Markham Sports Park	2013	\$ 577,920	\$ -	\$ 577,920	\$ -	\$ 57,792	\$ 520,128	\$ 520,128	\$ -
5.18.20 Wismer Community Park: Phase 3 Castlemore Frontage	2013	\$ 144,480	\$ -	\$ 144,480	\$ -	\$ 14,448	\$ 130,032	\$ 130,032	\$ -
5.18.21 World on Yonge: Meadowdale Ave. Park	2013	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.22 World on Yonge: Central Parkette	2013	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.23 Angus Glen West Village Parkette	2014	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.24 Cornell Community Park	2014	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.25 Cornell Madison Rouge/Riverlands	2014	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.26 Cornell Madison Rouge/Riverlands	2014	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.27 Cornell Mattamy Cornell Park Ave. N.P.	2014	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.28 Greensborough Solace Rd. N.P.	2014	\$ 144,480	\$ -	\$ 144,480	\$ -	\$ 14,448	\$ 130,032	\$ 130,032	\$ -
5.18.29 Leitchcroft Community Park Phase 2 (Western park addition)	2014	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.30 Main St. Milliken NW Parkette (Cotton Lane)	2014	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.31 Wismer Hwy. #48 Hammersley Woodlot Park (3 parcels)	2014	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.32 Elgin St. Honsburger Park	2014	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ -
5.18.33 Swan Lake Park South Williamson Phase 6	2015	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ 65,016
5.18.34 Berczy Beckett East Parkette	2015	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ 65,016
5.18.35 Berczy Beckett Neighbourhood Park	2015	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ 65,016
5.18.36 Berczy Beckett East Parkette	2015	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ 65,016
5.18.37 Berczy Beckett NW Parkette	2015	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ 65,016
5.18.38 Berczy Beckett NW Parkette	2015	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ 65,016
5.18.39 Berczy Beckett NE Parkette	2015	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ 65,016
5.18.40 Berczy Park near Prince Charles Way	2015	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ 65,016	\$ 65,016



APPENDIX B.5
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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs	10% Reduction	Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs 2013-2022	Post 2022
5.0 PARK DEVELOPMENT & FACILITIES											
5.18 Minor Gazebos/Shelters											
5.18.4: Cornell Community Park: Washroom Pavilion and Maintenance Station	2015	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.4: Cornell Community Centre Square	2015	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.4: Cornell Madison Rouge Blvd. Park	2015	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.4: John Daniels - Phase 2 (Fairly Park)	2015	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.4: Greensborough Alfred Paterson Neighbourhood Park	2015	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.4: Liberty Markham Centre Oak Park Warden W.	2015	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.4: Times-Murphy Hull Hwy. #7 Window Park	2015	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.4: Wismer McCowan Woodlot Park (4 parcels)	2015	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.4: Northwest Cathedral Woodlot Park	2016	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.5: Cornell Secondary School Neighbourhood Park	2016	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.5: Cornell Centre Mattamy Woodlot Park	2016	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.5: North Donald Cousins Park	2016	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.5: Jessamyn Settlers Park Landscaping	2016	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.5: Remington Markham Centre Active Park East	2016	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.5: Remington Markham Centre East Central Parkette	2016	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.5: South Unionville West Greenburg Parkette	2016	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.5: Wismer Alexander Lowrey Neighbourhood Park East	2016	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.5: Cornell Centre Mattamy N.P.	2017	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.5: Liberty Markham Centre Oak Park Warden E.	2017	\$ 144,480	\$ -	\$ 144,480	\$ -	\$ -	\$ 14,448	\$ 130,032	\$ -	\$ -	\$ 130,032
5.18.6: Remington Markham Centre Central Park S.	2017	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.6: East Precinct Markham Centre N. Parkette	2017	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.6: Remington Markham Centre N.E. Valley Edge Parkette	2017	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.6: Main Street Milliken NW Parkette	2017	\$ 144,480	\$ -	\$ 144,480	\$ -	\$ -	\$ 14,448	\$ 130,032	\$ -	\$ -	\$ 130,032
5.18.6: H & R Grand Cornell South Valley Edge Park East and West Banks	2018	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.6: Upper Cornell Parkette	2018	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.6: OPA 15 Markham Centre Neighbourhood Park	2018	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.6: OPA 15 Markham Centre Village Parkway Town Square	2018	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.6: Highway No. 7 & Warden Ave. Park	2018	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.6: Ayyeh Strata Park adjacent Ayyeh	2018	\$ 144,480	\$ -	\$ 144,480	\$ -	\$ -	\$ 14,448	\$ 130,032	\$ -	\$ -	\$ 130,032
5.18.7: Heritage Park adjacent Ayyeh Strata Park	2018	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.7: Annina Court to McCowan Trail Park	2018	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.7: Yonge/John St. Parkette	2018	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.7: Yonge/Coulbourne St. Parkette	2018	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.7: Angus Glen West Village Riverside Park W.	2019	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.7: Cornell Madison South Woodlot Park	2019	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.7: H & R Grand Cornell Hwy. #7 and Rouge Blvd. South Linear Park	2019	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.7: H & R Grand Cornell Hwy. #7 and Rouge Blvd. Southwest Linear Park	2019	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.7: Fairtree East Village Forest Bay Neighbourhood Park	2019	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.7: Remington Markham Centre Central Park N. Phase 2	2019	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.8: OPA 15 Markham Centre Chimento Court Park	2019	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.8: Wismer Hwy. #48 Anderson Ave. Park	2019	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016

APPENDIX B.5
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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs 10% Reduction	Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs 2013-2022	Post 2022
5.0 PARK DEVELOPMENT & FACILITIES										
5.18 Minor Gazebos/Shelters										
5.18.85:Dudley Park	2019	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.83:Woodbine Bypass Park	2020	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.84:Connell SW park	2020	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.85:John St Community Park (South/east of Cottonwood Crt)	2020	\$ 144,480	\$ -	\$ 144,480	\$ -	\$ 14,448	\$ 130,032	\$ -	\$ -	\$ 130,032
5.18.86:Tidell Markham Centre Linear Park W. (West of Circa Dr.)	2020	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.87:Remington Markham Centre East Valley Edge Linear Park	2020	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.88:Tidell Markham Centre Linear Park W. (West of Phase 2, East of Circa Dr.)	2020	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.85:Main Street Milliken Armadale N.P.	2020	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.91:Main Street Milliken SE Parkette	2020	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.91:Main Street Milliken SE Parkette	2020	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.92:Yonge/Elgin St. Parkette	2020	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.95:H & R Grand Connell Southwest Woodlot N. P.	2021	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.94:Fairtree East Village Forest Bay Community Park W. (Pair w/FAIR-7)	2021	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.95:Fairtree East Village Remington Parkview Community Park E.	2021	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.96:Don Mills/Steeles Markhamgate Park	2021	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.97:Times-Murphy Hill Valley Edge Park N.W.	2021	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.98:Upper Cornell N.P.	2022	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.99:Times-Murphy Hill Warden & Hwy. #7 Oval Parkette	2022	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.10:Yonge/Steeles Clark Ave. Parkette	2022	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.11:Yonge/Steeles Glen Cameron Rd. Parkette	2022	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.12:Yonge/Steeles Glen Cameron Rd. Parkette	2022	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.13:Yonge/Steeles Grandview Ave. Parkette	2022	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.14:Yonge/Steeles Woodward Ave. Parkette	2022	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.15:Yonge/Steeles Highland Park Ave. Parkette N.	2022	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
5.18.16:Yonge/Steeles Highland Park Ave. Parkette S.	2022	\$ 72,240	\$ -	\$ 72,240	\$ -	\$ 7,224	\$ 65,016	\$ -	\$ -	\$ 65,016
Subtotal Minor Gazebos/Shelters		\$ 8,813,280	\$ -	\$ 8,813,280	\$ -	\$ 881,328	\$ 7,931,952	\$ 2,210,544	\$ 715,176	\$ 5,006,232
5.19 Buildings & Washrooms										
5.19.1 Berczy Community Park	2013	\$ 1,088,048	\$ -	\$ 1,088,048	\$ -	\$ 109,805	\$ 988,243	\$ 988,243	\$ -	\$ -
5.19.2 Berczy Community Park Waterplay	2013	\$ 1,784,328	\$ -	\$ 1,784,328	\$ -	\$ 178,433	\$ 1,605,895	\$ 1,605,895	\$ -	\$ -
5.19.3 Villages of Fairtree Community Park: Washroom Pavilion	2013	\$ 411,768	\$ -	\$ 411,768	\$ -	\$ 41,177	\$ 370,591	\$ 370,591	\$ -	\$ -
5.19.4 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 411,768	\$ -	\$ 411,768	\$ -	\$ 41,177	\$ 370,591	\$ 370,591	\$ -	\$ -
5.19.5 Markham Sports Park	2013	\$ 1,372,560	\$ -	\$ 1,372,560	\$ -	\$ 137,256	\$ 1,235,304	\$ 1,235,304	\$ -	\$ -
5.19.6 Wismer Community Park: Washroom Pavilion and Maintenance Station	2013	\$ 617,652	\$ -	\$ 617,652	\$ -	\$ 61,765	\$ 555,887	\$ 555,887	\$ -	\$ -
5.19.7 Boxgrove Community Park Washroom Pavilion and Pedestrian Bridge	2014	\$ 411,768	\$ -	\$ 411,768	\$ -	\$ 41,177	\$ 370,591	\$ -	\$ 370,591	\$ -
5.19.8 Brother Andre Mt Joy Comm. Park Maintenance Station	2014	\$ 549,024	\$ -	\$ 549,024	\$ -	\$ 54,902	\$ 494,122	\$ -	\$ 494,122	\$ -
5.19.9 Leitchcroft Community Park Phase 2 (Western park addition)	2014	\$ 411,768	\$ -	\$ 411,768	\$ -	\$ 41,177	\$ 370,591	\$ -	\$ 370,591	\$ -
5.19.10:Angus Glen Com Cntr: Washroom Pavilion and Maintenance Station	2015	\$ 617,652	\$ -	\$ 617,652	\$ -	\$ 61,765	\$ 555,887	\$ -	\$ -	\$ 555,887
5.19.11:Connell Community Park: Washroom Pavilion and Maintenance Station	2015	\$ 329,414	\$ -	\$ 329,414	\$ -	\$ 32,941	\$ 296,473	\$ -	\$ -	\$ 296,473
5.19.12:Times-Murphy Hill Valley Edge Park N.	2018	\$ 329,414	\$ -	\$ 329,414	\$ -	\$ 32,941	\$ 296,473	\$ -	\$ -	\$ 296,473
5.19.13:Remington Markham Centre Central Park N.	2020	\$ 686,280	\$ -	\$ 686,280	\$ -	\$ 68,628	\$ 617,652	\$ -	\$ -	\$ 617,652
5.19.14:Fairtree East Village Remington Parkview Community Park E.	2021	\$ 329,414	\$ -	\$ 329,414	\$ -	\$ 32,941	\$ 296,473	\$ -	\$ -	\$ 296,473
Subtotal Buildings & Washrooms		\$ 9,360,859	\$ -	\$ 9,360,859	\$ -	\$ 936,086	\$ 8,424,773	\$ 5,126,512	\$ 1,235,304	\$ 2,062,958



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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		Post 2022
					Replacement & BTE Shares	10% Reduction		Available DC Reserves	2013-2022	
5.0 PARK DEVELOPMENT & FACILITIES										
5.20 Field Houses/Workshops										
5.20.1 Markham Sports Park	2013	\$ 1,170,288	\$ -	\$ 1,170,288	\$ -	\$ -	\$ 1,053,259	\$ 1,053,259	\$ -	\$ -
5.20.2 Wismer Community Park: Washroom Pavilion and Maintenance Station	2013	\$ 487,620	\$ -	\$ 487,620	\$ -	\$ -	\$ 438,858	\$ 438,858	\$ -	\$ -
5.20.3 World on Yonge: Yonge Parkette	2013	\$ 58,514	\$ -	\$ 58,514	\$ -	\$ -	\$ 52,663	\$ 52,663	\$ -	\$ -
5.20.4 Angus Glen Com Cntr: Washroom Pavilion and Maintenance Station	2015	\$ 487,620	\$ -	\$ 487,620	\$ -	\$ -	\$ 438,858	\$ -	\$ -	\$ 438,858
5.20.5 Cornell Community Park: Washroom Pavilion and Maintenance Station	2015	\$ 487,620	\$ -	\$ 487,620	\$ -	\$ -	\$ 438,858	\$ -	\$ -	\$ 438,858
Subtotal Field Houses/Workshops		\$ 2,691,662	\$ -	\$ 2,691,662	\$ -	\$ 289,166	\$ 2,422,496	\$ 1,544,780	\$ -	\$ 877,716
5.21 Concrete Plaza Spaces										
5.21.1 Angus Glen West Village Triangle Parkette	2013	\$ 54,180	\$ -	\$ 54,180	\$ -	\$ -	\$ 48,762	\$ 48,762	\$ -	\$ -
5.21.2 Angus Glen West Village Valley Edge/Playground Park	2013	\$ 97,524	\$ -	\$ 97,524	\$ -	\$ -	\$ 87,772	\$ 87,772	\$ -	\$ -
5.21.3 Angus Glen West Village Central Green	2013	\$ 325,080	\$ -	\$ 325,080	\$ -	\$ -	\$ 292,572	\$ 292,572	\$ -	\$ -
5.21.4 Boxgrove Community Park	2013	\$ 325,080	\$ -	\$ 325,080	\$ -	\$ -	\$ 292,572	\$ 292,572	\$ -	\$ -
5.21.5 Boxgrove Hill South East Parkette	2013	\$ 260,064	\$ -	\$ 260,064	\$ -	\$ -	\$ 234,058	\$ 234,058	\$ -	\$ -
5.21.6 Boxgrove Southeast Heritage House Parkette	2013	\$ 65,016	\$ -	\$ 65,016	\$ -	\$ -	\$ 58,514	\$ 58,514	\$ -	\$ -
5.21.7 Berczy Community Park	2013	\$ 130,032	\$ -	\$ 130,032	\$ -	\$ -	\$ 117,029	\$ 117,029	\$ -	\$ -
5.21.8 Victoria Square Community Park S. Phase Playground and Waterplay	2013	\$ 108,360	\$ -	\$ 108,360	\$ -	\$ -	\$ 97,524	\$ 97,524	\$ -	\$ -
5.21.9 Southwest Cathedral Monarch Memorial Neighbourhood Park	2013	\$ 151,704	\$ -	\$ 151,704	\$ -	\$ -	\$ 136,534	\$ 136,534	\$ -	\$ -
5.21.11 Southwest Cathedral Monarch Memorial Parkette	2013	\$ 43,344	\$ -	\$ 43,344	\$ -	\$ -	\$ 39,010	\$ 39,010	\$ -	\$ -
5.21.11 Cornell Madison East Woodlot Park	2013	\$ 86,688	\$ -	\$ 86,688	\$ -	\$ -	\$ 78,019	\$ 78,019	\$ -	\$ -
5.21.12 Golden Jubilee (Flanking Northvale)	2013	\$ 43,344	\$ -	\$ 43,344	\$ -	\$ -	\$ 39,010	\$ 39,010	\$ -	\$ -
5.21.13 H&R Grand Cornell Linear Finger Park	2013	\$ 65,016	\$ -	\$ 65,016	\$ -	\$ -	\$ 58,514	\$ 58,514	\$ -	\$ -
5.21.14 Villages of Fairtree Community Park: Washroom Pavilion	2013	\$ 43,344	\$ -	\$ 43,344	\$ -	\$ -	\$ 39,010	\$ 39,010	\$ -	\$ -
5.21.15 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 65,016	\$ -	\$ 65,016	\$ -	\$ -	\$ 58,514	\$ 58,514	\$ -	\$ -
5.21.16 South East Markham Community Centre Park	2013	\$ 130,032	\$ -	\$ 130,032	\$ -	\$ -	\$ 117,029	\$ 117,029	\$ -	\$ -
5.21.17 Leitchcroft (Times) Community Park	2013	\$ 216,720	\$ -	\$ 216,720	\$ -	\$ -	\$ 195,048	\$ 195,048	\$ -	\$ -
5.21.18 South Unionville Ray Street Parkette E.	2013	\$ 65,016	\$ -	\$ 65,016	\$ -	\$ -	\$ 58,514	\$ 58,514	\$ -	\$ -
5.21.19 South Unionville Ray Street Parkette W.	2013	\$ 108,360	\$ -	\$ 108,360	\$ -	\$ -	\$ 97,524	\$ 97,524	\$ -	\$ -
5.21.20 Tridel Markham Centre Linear Park E. (East of Circa - Phase 2 only)	2013	\$ 216,720	\$ -	\$ 216,720	\$ -	\$ -	\$ 195,048	\$ 195,048	\$ -	\$ -
5.21.21 Remington Markham Centre Heritage House Parkette (2 parcels)	2013	\$ 108,360	\$ -	\$ 108,360	\$ -	\$ -	\$ 97,524	\$ 97,524	\$ -	\$ -
5.21.22 Remington Markham Centre Civic Mall Phase 1	2013	\$ 541,800	\$ -	\$ 541,800	\$ -	\$ -	\$ 487,620	\$ 487,620	\$ -	\$ -
5.21.23 Markham Sports Park	2013	\$ 433,440	\$ -	\$ 433,440	\$ -	\$ -	\$ 390,096	\$ 390,096	\$ -	\$ -
5.21.24 Wismer Community Park: Washroom Pavilion and Maintenance Station	2013	\$ 86,688	\$ -	\$ 86,688	\$ -	\$ -	\$ 78,019	\$ 78,019	\$ -	\$ -
5.21.25 Wismer Community Park Phase 3 Castlemore Frontage	2013	\$ 476,784	\$ -	\$ 476,784	\$ -	\$ -	\$ 429,106	\$ 429,106	\$ -	\$ -
5.21.26 World on Yonge: Meadowdale Ave. Park	2013	\$ 325,080	\$ -	\$ 325,080	\$ -	\$ -	\$ 292,572	\$ 292,572	\$ -	\$ -
5.21.27 World on Yonge: Yonge Parkette	2013	\$ 325,080	\$ -	\$ 325,080	\$ -	\$ -	\$ 292,572	\$ 292,572	\$ -	\$ -
5.21.28 World on Yonge: Central Parkette	2013	\$ 325,080	\$ -	\$ 325,080	\$ -	\$ -	\$ 292,572	\$ 292,572	\$ -	\$ -
5.21.29 Angus Glen West Village Parkette	2014	\$ 65,016	\$ -	\$ 65,016	\$ -	\$ -	\$ 58,514	\$ -	\$ 58,514	\$ -
5.21.30 Boxgrove Community Park Washroom Pavilion and Pedestrian Bridge	2014	\$ 32,508	\$ -	\$ 32,508	\$ -	\$ -	\$ 29,257	\$ -	\$ 29,257	\$ -
5.21.31 Berczy Northeast McCowan Parkette	2014	\$ 86,688	\$ -	\$ 86,688	\$ -	\$ -	\$ 78,019	\$ -	\$ 78,019	\$ -
5.21.32 Cornell Community Park	2014	\$ 325,080	\$ -	\$ 325,080	\$ -	\$ -	\$ 292,572	\$ -	\$ 292,572	\$ -



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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs - 10% Reduction	Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs 2013-2022	Post 2022
5.0 PARK DEVELOPMENT & FACILITIES										
5.21 Concrete Plaza Spaces										
5.21.3: Cornell Madison Rouge/Riverlands	2014	\$ 86,688	\$ -	\$ 86,688	\$ -	\$ 8,669	\$ 78,019	\$ -	\$ 78,019	\$ -
5.21.3: Cornell Madison Rouge/Riverlands	2014	\$ 86,688	\$ -	\$ 86,688	\$ -	\$ 8,669	\$ 78,019	\$ -	\$ 78,019	\$ -
5.21.3: Cornell Mattamy Cornell Park Ave. N.P.	2014	\$ 65,016	\$ -	\$ 65,016	\$ -	\$ 6,502	\$ 58,514	\$ -	\$ 58,514	\$ -
5.21.3: Brother Andre Mt. Joy Comm. Park Maintenance Station	2014	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ 2,167	\$ 19,505	\$ -	\$ 19,505	\$ -
5.21.3: Greensborough Williamson NP	2014	\$ 97,524	\$ -	\$ 97,524	\$ -	\$ 9,752	\$ 87,772	\$ -	\$ 87,772	\$ -
5.21.3: Greensborough Solace Rd. N.P.	2014	\$ 43,344	\$ -	\$ 43,344	\$ -	\$ 4,334	\$ 39,010	\$ -	\$ 39,010	\$ -
5.21.3: Leitchcroft Community Park Phase 2 (Western park addition)	2014	\$ 54,180	\$ -	\$ 54,180	\$ -	\$ 5,418	\$ 48,762	\$ -	\$ 48,762	\$ -
5.21.4: (Main St Milliken NW Parkette (Cotton Lane)	2014	\$ 75,852	\$ -	\$ 75,852	\$ -	\$ 7,585	\$ 68,267	\$ -	\$ 68,267	\$ -
5.21.4: Wismer Greenspire North Central Parkette	2014	\$ 54,180	\$ -	\$ 54,180	\$ -	\$ 5,418	\$ 48,762	\$ -	\$ 48,762	\$ -
5.21.4: Wismer Donald Mingay Parkette on Mingay (4 parcels)	2014	\$ 43,344	\$ -	\$ 43,344	\$ -	\$ 4,334	\$ 39,010	\$ -	\$ 39,010	\$ -
5.21.4: Wismer Hwy. #48 Hamersley Woodlot Park (3 parcels)	2014	\$ 108,360	\$ -	\$ 108,360	\$ -	\$ 10,836	\$ 97,524	\$ -	\$ 97,524	\$ -
5.21.4: Wismer Hwy. #48 Museum North	2014	\$ 86,688	\$ -	\$ 86,688	\$ -	\$ 8,669	\$ 78,019	\$ -	\$ 78,019	\$ -
5.21.4: Elgin St. Honsburger Park	2014	\$ 65,016	\$ -	\$ 65,016	\$ -	\$ 6,502	\$ 58,514	\$ -	\$ 58,514	\$ -
5.21.4: Angus Glen Com Cntr. Washroom Pavilion and Maintenance Station	2015	\$ 86,688	\$ -	\$ 86,688	\$ -	\$ 8,669	\$ 78,019	\$ -	\$ -	\$ 78,019
5.21.4: Berczy Beckett East Parkette	2015	\$ 75,852	\$ -	\$ 75,852	\$ -	\$ 7,585	\$ 68,267	\$ -	\$ -	\$ 68,267
5.21.4: Berczy Beckett Neighbourhood Park	2015	\$ 97,524	\$ -	\$ 97,524	\$ -	\$ 9,752	\$ 87,772	\$ -	\$ -	\$ 87,772
5.21.4: Berczy Beckett East Parkette	2015	\$ 75,852	\$ -	\$ 75,852	\$ -	\$ 7,585	\$ 68,267	\$ -	\$ -	\$ 68,267
5.21.5: Berczy Beckett NW Parkette	2015	\$ 75,852	\$ -	\$ 75,852	\$ -	\$ 7,585	\$ 68,267	\$ -	\$ -	\$ 68,267
5.21.5: Berczy Beckett NE Parkette	2015	\$ 43,344	\$ -	\$ 43,344	\$ -	\$ 4,334	\$ 39,010	\$ -	\$ -	\$ 39,010
5.21.5: Berczy Park near Prince Charles Way	2015	\$ 43,344	\$ -	\$ 43,344	\$ -	\$ 4,334	\$ 39,010	\$ -	\$ -	\$ 39,010
5.21.5: Northwest Cathedral Neighbourhood Park S.	2015	\$ 108,360	\$ -	\$ 108,360	\$ -	\$ 10,836	\$ 97,524	\$ -	\$ -	\$ 97,524
5.21.5: Northwest Cathedral Neighbourhood Park N.	2015	\$ 54,180	\$ -	\$ 54,180	\$ -	\$ 5,418	\$ 48,762	\$ -	\$ -	\$ 48,762
5.21.5: Cornell Community Park: Washroom Pavilion and Maintenance Station	2015	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ 2,167	\$ 19,505	\$ -	\$ -	\$ 19,505
5.21.5: Cornell Community Centre Square	2015	\$ 216,720	\$ -	\$ 216,720	\$ -	\$ 21,672	\$ 195,048	\$ -	\$ -	\$ 195,048
5.21.5: Cornell Mattamy East Church Street Parkette	2015	\$ 86,688	\$ -	\$ 86,688	\$ -	\$ 8,669	\$ 78,019	\$ -	\$ -	\$ 78,019
5.21.5: Cornell Madison Rouge Blvd. Park	2015	\$ 43,344	\$ -	\$ 43,344	\$ -	\$ 4,334	\$ 39,010	\$ -	\$ -	\$ 39,010
5.21.6: Cornell Madison Rouge Blvd. Park S.	2015	\$ 75,852	\$ -	\$ 75,852	\$ -	\$ 7,585	\$ 68,267	\$ -	\$ -	\$ 68,267
5.21.6: Cornell Madison Urban Parkette	2015	\$ 75,852	\$ -	\$ 75,852	\$ -	\$ 7,585	\$ 68,267	\$ -	\$ -	\$ 68,267
5.21.6: John Daniels - Phase 2 (Fairly Park)	2015	\$ 65,016	\$ -	\$ 65,016	\$ -	\$ 6,502	\$ 58,514	\$ -	\$ -	\$ 58,514
5.21.6: Greensborough Alfred Patterson Neighbourhood Park	2015	\$ 97,524	\$ -	\$ 97,524	\$ -	\$ 9,752	\$ 87,772	\$ -	\$ -	\$ 87,772
5.21.6: Liberty Markham Centre Oak Park, Warden W.	2015	\$ 325,080	\$ -	\$ 325,080	\$ -	\$ 32,508	\$ 292,572	\$ -	\$ -	\$ 292,572
5.21.6: Times-Murphy Hull Hwy. #7 Window Park	2015	\$ 325,080	\$ -	\$ 325,080	\$ -	\$ 32,508	\$ 292,572	\$ -	\$ -	\$ 292,572
5.21.6: Wismer McCowan Woodlot Park (4 parcels)	2015	\$ 54,180	\$ -	\$ 54,180	\$ -	\$ 5,418	\$ 48,762	\$ -	\$ -	\$ 48,762
5.21.6: Box Grove Rennie Ave NBHD Park	2016	\$ 108,360	\$ -	\$ 108,360	\$ -	\$ 10,836	\$ 97,524	\$ -	\$ -	\$ 97,524
5.21.6: Northwest Cathedral Woodlot Park	2016	\$ 75,852	\$ -	\$ 75,852	\$ -	\$ 7,585	\$ 68,267	\$ -	\$ -	\$ 68,267
5.21.6: East Cathedral Park adjacent Woodbine	2016	\$ 86,688	\$ -	\$ 86,688	\$ -	\$ 8,669	\$ 78,019	\$ -	\$ -	\$ 78,019
5.21.7: Cornell Secondary School Neighbourhood Park	2016	\$ 108,360	\$ -	\$ 108,360	\$ -	\$ 10,836	\$ 97,524	\$ -	\$ -	\$ 97,524
5.21.7: Cornell Mattamy Woodlot Park	2016	\$ 65,016	\$ -	\$ 65,016	\$ -	\$ 6,502	\$ 58,514	\$ -	\$ -	\$ 58,514
5.21.7: Remnant Woodlot Parkette	2016	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ 2,167	\$ 19,505	\$ -	\$ -	\$ 19,505
5.21.7: North Donald Cousins Park	2016	\$ 86,688	\$ -	\$ 86,688	\$ -	\$ 8,669	\$ 78,019	\$ -	\$ -	\$ 78,019



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DEVELOPMENT RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs	10% Reduction	Total DC Eligible Costs	DC Eligible Costs	
									Available DC Reserves	Post 2022
5.0 PARK DEVELOPMENT & FACILITIES										
5.21 Concrete Plaza Spaces										
5.21.74.Jessamy Settler's Park Landscaping	2016	\$ 65,016	-	\$ 65,016	-	-	\$ 6,502	\$ 58,514	\$ -	\$ 58,514
5.21.75.Remington Markham Centre Active Park East	2016	\$ 86,688	-	\$ 86,688	-	-	\$ 8,669	\$ 78,019	\$ -	\$ 78,019
5.21.76.Remington Markham Centre East Central Parkette	2016	\$ 325,080	-	\$ 325,080	-	-	\$ 32,508	\$ 292,572	\$ -	\$ 292,572
5.21.77.South Unionville Community Park W.	2016	\$ 75,852	-	\$ 75,852	-	-	\$ 7,585	\$ 68,267	\$ -	\$ 68,267
5.21.78.South Unionville West Greenburg Parkette	2016	\$ 43,344	-	\$ 43,344	-	-	\$ 4,334	\$ 39,010	\$ -	\$ 39,010
5.21.79.Wisner Alexander/Lowrey Neighbourhood Park West	2016	\$ 65,016	-	\$ 65,016	-	-	\$ 6,502	\$ 58,514	\$ -	\$ 58,514
5.21.80.Wisner Alexander/Lowrey Neighbourhood Park East	2016	\$ 43,344	-	\$ 43,344	-	-	\$ 4,334	\$ 39,010	\$ -	\$ 39,010
5.21.81.Boxgrove Hill East Parkette	2017	\$ 54,180	-	\$ 54,180	-	-	\$ 5,418	\$ 48,762	\$ -	\$ 48,762
5.21.82.Berzky Park near Williams St	2017	\$ 21,672	-	\$ 21,672	-	-	\$ 2,167	\$ 19,505	\$ -	\$ 19,505
5.21.83.Woodbine North Entry Park (SW corner)	2017	\$ 32,508	-	\$ 32,508	-	-	\$ 3,251	\$ 29,257	\$ -	\$ 29,257
5.21.84.Woodbine North Entry Park (SE corner)	2017	\$ 32,508	-	\$ 32,508	-	-	\$ 3,251	\$ 29,257	\$ -	\$ 29,257
5.21.85.H&R Grand Cornell Horseshoe Park (Clock Tower) - PH 2	2017	\$ 10,836	-	\$ 10,836	-	-	\$ 1,084	\$ 9,752	\$ -	\$ 9,752
5.21.86.Cornell Centre Mataray N.P.	2017	\$ 54,180	-	\$ 54,180	-	-	\$ 5,418	\$ 48,762	\$ -	\$ 48,762
5.21.87.Cornell Centre South NBHD Park (HR)	2017	\$ 65,016	-	\$ 65,016	-	-	\$ 6,502	\$ 58,514	\$ -	\$ 58,514
5.21.88.Liberty Markham Centre Oak Park Warden E.	2017	\$ 65,016	-	\$ 65,016	-	-	\$ 6,502	\$ 58,514	\$ -	\$ 58,514
5.21.89.Remington Markham Centre Central Park S.	2017	\$ 54,180	-	\$ 54,180	-	-	\$ 5,418	\$ 48,762	\$ -	\$ 48,762
5.21.90.East Pritchard Markham Centre N. Parkette	2017	\$ 108,360	-	\$ 108,360	-	-	\$ 10,836	\$ 97,524	\$ -	\$ 97,524
5.21.91.Remington Markham Centre N.E. Valley Edge Parkette	2017	\$ 32,508	-	\$ 32,508	-	-	\$ 3,251	\$ 29,257	\$ -	\$ 29,257
5.21.92.Main Street Milliken NW Parkette	2017	\$ 75,852	-	\$ 75,852	-	-	\$ 7,585	\$ 68,267	\$ -	\$ 68,267
5.21.93.Victoria Square Community Park N. Phase	2018	\$ 140,868	-	\$ 140,868	-	-	\$ 14,087	\$ 126,781	\$ -	\$ 126,781
5.21.94.Cornell Madison East Channel Park (North)	2018	\$ 54,180	-	\$ 54,180	-	-	\$ 5,418	\$ 48,762	\$ -	\$ 48,762
5.21.95.Cornell Madison East Channel Park (South)	2018	\$ 54,180	-	\$ 54,180	-	-	\$ 5,418	\$ 48,762	\$ -	\$ 48,762
5.21.96.H & R Grand Cornell South Valley Edge Park East and West Banks	2018	\$ 108,360	-	\$ 108,360	-	-	\$ 10,836	\$ 97,524	\$ -	\$ 97,524
5.21.97.Times-Murphy Hill Valley Edge Park N.	2018	\$ 54,180	-	\$ 54,180	-	-	\$ 5,418	\$ 48,762	\$ -	\$ 48,762
5.21.98.OPA 15 Markham Centre Neighbourhood Park	2018	\$ 54,180	-	\$ 54,180	-	-	\$ 5,418	\$ 48,762	\$ -	\$ 48,762
5.21.99.OPA 15 Markham Centre Village Parkway Town Square	2018	\$ 325,080	-	\$ 325,080	-	-	\$ 32,508	\$ 292,572	\$ -	\$ 292,572
5.21.10.Highway No. 7 & Warden Ave. Park	2018	\$ 54,180	-	\$ 54,180	-	-	\$ 5,418	\$ 48,762	\$ -	\$ 48,762
5.21.10.Ayeh Straits Park adjacent Ayeh	2018	\$ 108,360	-	\$ 108,360	-	-	\$ 10,836	\$ 97,524	\$ -	\$ 97,524
5.21.10.Heritage Park adjacent Ayeh Strata Park	2018	\$ 75,852	-	\$ 75,852	-	-	\$ 7,585	\$ 68,267	\$ -	\$ 68,267
5.21.10.Annie Court to McCowan Trail Park	2018	\$ 32,508	-	\$ 32,508	-	-	\$ 3,251	\$ 29,257	\$ -	\$ 29,257
5.21.10.Yonge/John St. Parkette	2018	\$ 325,080	-	\$ 325,080	-	-	\$ 32,508	\$ 292,572	\$ -	\$ 292,572
5.21.10.Yonge/Coburne St. Parkette	2018	\$ 325,080	-	\$ 325,080	-	-	\$ 32,508	\$ 292,572	\$ -	\$ 292,572
5.21.10.16 Clark Ave. Woodlot Park	2018	\$ 65,016	-	\$ 65,016	-	-	\$ 6,502	\$ 58,514	\$ -	\$ 58,514
5.21.10.Angus Glen West Village Riverside Park W.	2019	\$ 86,688	-	\$ 86,688	-	-	\$ 8,669	\$ 78,019	\$ -	\$ 78,019
5.21.10.Angus Glen Parkette adjacent East Village	2019	\$ 21,672	-	\$ 21,672	-	-	\$ 2,167	\$ 19,505	\$ -	\$ 19,505
5.21.10.Cornell Madison South Woodlot Park	2019	\$ 65,016	-	\$ 65,016	-	-	\$ 6,502	\$ 58,514	\$ -	\$ 58,514
5.21.11.Cornell Madison South Woodlot Park	2019	\$ 43,344	-	\$ 43,344	-	-	\$ 4,334	\$ 39,010	\$ -	\$ 39,010
5.21.11.H & R Grand Cornell Hwy. #7 and Rouge Blvd. South Linear Park	2019	\$ 43,344	-	\$ 43,344	-	-	\$ 4,334	\$ 39,010	\$ -	\$ 39,010
5.21.11.H & R Grand Cornell Hwy. #7 and Rouge Blvd. Southwest Linear Park	2019	\$ 43,344	-	\$ 43,344	-	-	\$ 4,334	\$ 39,010	\$ -	\$ 39,010
5.21.11.Fairlee East Village Forest Bay Neighbourhood Park	2019	\$ 86,688	-	\$ 86,688	-	-	\$ 8,669	\$ 78,019	\$ -	\$ 78,019
5.21.11.Greensborough North Parkway N.P. West	2019	\$ 43,344	-	\$ 43,344	-	-	\$ 4,334	\$ 39,010	\$ -	\$ 39,010
5.21.11.Greensborough North Parkway N.P. East	2019	\$ 54,180	-	\$ 54,180	-	-	\$ 5,418	\$ 48,762	\$ -	\$ 48,762
5.21.11.Remington Markham Centre Central Park N. Phase 2	2019	\$ 216,720	-	\$ 216,720	-	-	\$ 21,672	\$ 195,048	\$ -	\$ 195,048
5.21.11.Times-Murphy Hill Valley Edge Park S.	2019	\$ 54,180	-	\$ 54,180	-	-	\$ 5,418	\$ 48,762	\$ -	\$ 48,762
5.21.11.Times-Murphy Hill Valley Edge Park E.	2019	\$ 108,360	-	\$ 108,360	-	-	\$ 10,836	\$ 97,524	\$ -	\$ 97,524
5.21.11.OPA 15 Markham Centre Chiment Court Park	2019	\$ 108,360	-	\$ 108,360	-	-	\$ 10,836	\$ 97,524	\$ -	\$ 97,524
5.21.12.Wisner Hwy. #48 Anderson Ave. Park	2019	\$ 32,508	-	\$ 32,508	-	-	\$ 3,251	\$ 29,257	\$ -	\$ 29,257
5.21.12.Dudley Park	2020	\$ 54,180	-	\$ 54,180	-	-	\$ 5,418	\$ 48,762	\$ -	\$ 48,762
5.21.12.Woodbine Bypass Park	2020	\$ 65,016	-	\$ 65,016	-	-	\$ 6,502	\$ 58,514	\$ -	\$ 58,514
5.21.12.Cornell Shroff Hwy. #7 and 9th Line N.P.	2020	\$ 75,852	-	\$ 75,852	-	-	\$ 7,585	\$ 68,267	\$ -	\$ 68,267



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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Net Eligible Costs		Total DC Eligible Costs	DC Eligible Costs		
						10% Reduction	Available DC Reserves		2013-2022	Post 2022	
5.0 PARK DEVELOPMENT & FACILITIES											
5.21 Concrete Plaza Spaces											
5.21.1: Cornell SW park	2020	\$ 75,852	-	\$ 75,852	-	-	\$ 7,585	\$ 68,267	-	\$ -	\$ 68,267
5.21.1: John St Community Park (Southeast of Cottonwood Cr)	2020	\$ 216,720	-	\$ 216,720	-	-	\$ 21,672	\$ 195,048	-	\$ -	\$ 195,048
5.21.1: Tridel Markham Centre Linear Park W. (West of Cicca Dr.)	2020	\$ 108,360	-	\$ 108,360	-	-	\$ 10,836	\$ 97,524	-	\$ -	\$ 97,524
5.21.1: Remington Markham Centre East Valley Edge Linear Park	2020	\$ 54,180	-	\$ 54,180	-	-	\$ 5,418	\$ 48,762	-	\$ -	\$ 48,762
5.21.1: East Precinct Markham Centre S. Parkette	2020	\$ 86,688	-	\$ 86,688	-	-	\$ 8,669	\$ 78,019	-	\$ -	\$ 78,019
5.21.1: Remington Markham Centre Central Park N.	2020	\$ 108,360	-	\$ 108,360	-	-	\$ 10,836	\$ 97,524	-	\$ -	\$ 97,524
5.21.1: Tridel Markham Centre Linear Park W. (West of Phase 2, East of Old	2020	\$ 54,180	-	\$ 54,180	-	-	\$ 5,418	\$ 48,762	-	\$ -	\$ 48,762
5.21.1: East Warden at Clegg Road Park NE side	2020	\$ 32,508	-	\$ 32,508	-	-	\$ 3,251	\$ 29,257	-	\$ -	\$ 29,257
5.21.1: Main Street Milliken SE Parkette	2020	\$ 65,016	-	\$ 65,016	-	-	\$ 6,502	\$ 58,514	-	\$ -	\$ 58,514
5.21.1: Main Street Milliken SW Parkette	2020	\$ 75,852	-	\$ 75,852	-	-	\$ 7,585	\$ 68,267	-	\$ -	\$ 68,267
5.21.1: Main Street Milliken SW Parkette	2020	\$ 75,852	-	\$ 75,852	-	-	\$ 7,585	\$ 68,267	-	\$ -	\$ 68,267
5.21.1: Yonge/Elgin St. Parkette	2020	\$ 43,344	-	\$ 43,344	-	-	\$ 4,334	\$ 39,010	-	\$ -	\$ 39,010
5.21.1: H & R Grand Conell Southwest Woodlot N. P.	2021	\$ 43,344	-	\$ 43,344	-	-	\$ 4,334	\$ 39,010	-	\$ -	\$ 39,010
5.21.1: Fairtree East Village Forest Bay Community Park W. (Pair w/FAIR-7)	2021	\$ 65,016	-	\$ 65,016	-	-	\$ 6,502	\$ 58,514	-	\$ -	\$ 58,514
5.21.1: Fairtree East Village Remington Parkview Community Park E.	2021	\$ 216,720	-	\$ 216,720	-	-	\$ 21,672	\$ 195,048	-	\$ -	\$ 195,048
5.21.1: Fairtree East Village Remington Parkview Neighbourhood Park	2021	\$ 86,688	-	\$ 86,688	-	-	\$ 8,669	\$ 78,019	-	\$ -	\$ 78,019
5.21.1: Fairtree East Village Remington Parkview Parkette	2021	\$ 65,016	-	\$ 65,016	-	-	\$ 6,502	\$ 58,514	-	\$ -	\$ 58,514
5.21.1: Don Mills/Steeles Markhamgate Park	2021	\$ 433,440	-	\$ 433,440	-	-	\$ 43,344	\$ 390,096	-	\$ -	\$ 390,096
5.21.1: Times-Murphy Hill Valley Edge Park N.W.	2021	\$ 216,720	-	\$ 216,720	-	-	\$ 21,672	\$ 195,048	-	\$ -	\$ 195,048
5.21.1: Park N.E. Of Veclair Gate	2021	\$ 32,508	-	\$ 32,508	-	-	\$ 3,251	\$ 29,257	-	\$ -	\$ 29,257
5.21.1: Main St. Markham Town Square	2021	\$ 433,440	-	\$ 433,440	-	-	\$ 43,344	\$ 390,096	-	\$ -	\$ 390,096
5.21.1: Wismer Hwy. #48 Major Meckenzie Park	2021	\$ 54,180	-	\$ 54,180	-	-	\$ 5,418	\$ 48,762	-	\$ -	\$ 48,762
5.21.1: Upper Cornell N.P.	2022	\$ 54,180	-	\$ 54,180	-	-	\$ 5,418	\$ 48,762	-	\$ -	\$ 48,762
5.21.1: Times-Murphy Hill Warden & Hwy. #7 Oval Parkette	2022	\$ 108,360	-	\$ 108,360	-	-	\$ 10,836	\$ 97,524	-	\$ -	\$ 97,524
5.21.1: Yonge/Steeles Clark Ave. Parkette	2022	\$ 65,016	-	\$ 65,016	-	-	\$ 6,502	\$ 58,514	-	\$ -	\$ 58,514
5.21.1: Yonge/Steeles Morgan Ave. Parkette	2022	\$ 54,180	-	\$ 54,180	-	-	\$ 5,418	\$ 48,762	-	\$ -	\$ 48,762
5.21.1: Yonge/Steeles Glen Cameron Rd. Parkette	2022	\$ 65,016	-	\$ 65,016	-	-	\$ 6,502	\$ 58,514	-	\$ -	\$ 58,514
5.21.1: Yonge/Steeles Grandview Ave. Parkette	2022	\$ 65,016	-	\$ 65,016	-	-	\$ 6,502	\$ 58,514	-	\$ -	\$ 58,514
5.21.1: Yonge/Steeles Woodward Ave. Parkette	2022	\$ 65,016	-	\$ 65,016	-	-	\$ 6,502	\$ 58,514	-	\$ -	\$ 58,514
5.21.1: Yonge/Steeles Highland Park Ave. Parkette N.	2022	\$ 216,720	-	\$ 216,720	-	-	\$ 21,672	\$ 195,048	-	\$ -	\$ 195,048
5.21.1: Yonge/Steeles Highland Park Ave. Parkette S.	2022	\$ 43,344	-	\$ 43,344	-	-	\$ 4,334	\$ 39,010	-	\$ -	\$ 39,010
Subtotal Concrete Plaza Spaces		\$ 18,941,328	-	\$ 18,941,328	-	-	\$ 1,894,133	\$ 17,047,195	\$ 4,700,657	\$ 1,258,060	\$ 11,088,479
5.22 Pathways Concrete											
5.22.1 Angus Glen Community Centre Park	2013	\$ 253,180	-	\$ 253,180	-	-	\$ 25,318	\$ 227,862	\$ 227,862	\$ -	\$ -
5.22.2 Angus Glen West Village Triangle Parkette	2013	\$ 10,836	-	\$ 10,836	-	-	\$ 1,084	\$ 9,752	\$ 9,752	\$ -	\$ -
5.22.3 Angus Glen West Village Valley Edge/Playground Park	2013	\$ 13,003	-	\$ 13,003	-	-	\$ 1,300	\$ 11,703	\$ 11,703	\$ -	\$ -
5.22.4 Angus Glen West Village Central Green	2013	\$ 54,180	-	\$ 54,180	-	-	\$ 5,418	\$ 48,762	\$ 48,762	\$ -	\$ -
5.22.5 Boxgrove Community Park	2013	\$ 140,868	-	\$ 140,868	-	-	\$ 14,087	\$ 126,781	\$ 126,781	\$ -	\$ -
5.22.6 Boxgrove Hill South East Parkette	2013	\$ 13,003	-	\$ 13,003	-	-	\$ 1,300	\$ 11,703	\$ 11,703	\$ -	\$ -
5.22.7 Boxgrove Southeast Heritage House Parkette	2013	\$ 48,762	-	\$ 48,762	-	-	\$ 4,876	\$ 43,886	\$ 43,886	\$ -	\$ -
5.22.8 Victoria Square Community Park S. Phase Playground and Waterplay	2013	\$ 65,016	-	\$ 65,016	-	-	\$ 6,502	\$ 58,514	\$ 58,514	\$ -	\$ -
5.22.9 Southwest Cathedral Monarch Memorial Neighbourhood Park	2013	\$ 41,177	-	\$ 41,177	-	-	\$ 4,118	\$ 37,059	\$ 37,059	\$ -	\$ -
5.22.1: Southwest Cathedral Monarch Memorial Parkette	2013	\$ 21,672	-	\$ 21,672	-	-	\$ 2,167	\$ 19,505	\$ 19,505	\$ -	\$ -
5.22.1: Cornell Madison East Woodlot Park	2013	\$ 21,672	-	\$ 21,672	-	-	\$ 2,167	\$ 19,505	\$ 19,505	\$ -	\$ -

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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		Post 2022
						10% Reduction	Available DC Reserves		2013-2022		
5.0 PARK DEVELOPMENT & FACILITIES											
5.22 Pathways Concrete											
5.22.1: Golden Jubilee (Flanking Northvale)	2013	\$ 32,508 \$	- \$	\$ 32,508 \$	- \$	- \$	3,251 \$	\$ 29,257 \$	\$ 29,257 \$	- \$	- \$
5.22.1: H&R Grand Connell Linear Finger Park	2013	\$ 21,672 \$	- \$	\$ 21,672 \$	- \$	- \$	2,167 \$	\$ 19,505 \$	\$ 19,505 \$	- \$	- \$
5.22.1: Villages of Fairtree Community Park: Washroom Pavilion	2013	\$ 10,836 \$	- \$	\$ 10,836 \$	- \$	- \$	1,084 \$	\$ 9,752 \$	\$ 9,752 \$	- \$	- \$
5.22.1: Kikkham Park (South East Markham Community Centre Park)	2013	\$ 97,524 \$	- \$	\$ 97,524 \$	- \$	- \$	9,752 \$	\$ 87,772 \$	\$ 87,772 \$	- \$	- \$
5.22.1: South East Markham Community Centre Park	2013	\$ 65,016 \$	- \$	\$ 65,016 \$	- \$	- \$	6,502 \$	\$ 58,514 \$	\$ 58,514 \$	- \$	- \$
5.22.1: Leitchcroft (Times) Community Park	2013	\$ 65,016 \$	- \$	\$ 65,016 \$	- \$	- \$	6,502 \$	\$ 58,514 \$	\$ 58,514 \$	- \$	- \$
5.22.1: South Unionville Ray Street Parkette E.	2013	\$ 43,344 \$	- \$	\$ 43,344 \$	- \$	- \$	4,334 \$	\$ 39,010 \$	\$ 39,010 \$	- \$	- \$
5.22.1: South Unionville Ray Street Parkette W.	2013	\$ 21,672 \$	- \$	\$ 21,672 \$	- \$	- \$	2,167 \$	\$ 19,505 \$	\$ 19,505 \$	- \$	- \$
5.22.2: Tridel Markham Centre Linear Park E. (East of Circa - Phase 2 only)	2013	\$ 65,016 \$	- \$	\$ 65,016 \$	- \$	- \$	6,502 \$	\$ 58,514 \$	\$ 58,514 \$	- \$	- \$
5.22.2: Remington Markham Centre Heritage House Parkette (2 parcels)	2013	\$ 28,174 \$	- \$	\$ 28,174 \$	- \$	- \$	2,817 \$	\$ 25,356 \$	\$ 25,356 \$	- \$	- \$
5.22.2: Remington Markham Centre Civic Mall Phase 1	2013	\$ 130,032 \$	- \$	\$ 130,032 \$	- \$	- \$	13,003 \$	\$ 117,029 \$	\$ 117,029 \$	- \$	- \$
5.22.2: Markham Sports Park	2013	\$ 162,540 \$	- \$	\$ 162,540 \$	- \$	- \$	16,254 \$	\$ 146,286 \$	\$ 146,286 \$	- \$	- \$
5.22.2: Wismer Community Park: Washroom Pavilion and Maintenance Stat	2013	\$ 108,360 \$	- \$	\$ 108,360 \$	- \$	- \$	10,836 \$	\$ 97,524 \$	\$ 97,524 \$	- \$	- \$
5.22.2: Wismer Community Park Phase 3 Castlemore Frontage	2013	\$ 119,196 \$	- \$	\$ 119,196 \$	- \$	- \$	11,920 \$	\$ 107,276 \$	\$ 107,276 \$	- \$	- \$
5.22.2: World on Yonge: Meadowdale Ave. Park	2013	\$ 108,360 \$	- \$	\$ 108,360 \$	- \$	- \$	10,836 \$	\$ 97,524 \$	\$ 97,524 \$	- \$	- \$
5.22.2: World on Yonge: Yonge Parkette	2013	\$ 108,360 \$	- \$	\$ 108,360 \$	- \$	- \$	10,836 \$	\$ 97,524 \$	\$ 97,524 \$	- \$	- \$
5.22.2: World on Yonge: Central Parkette	2013	\$ 108,360 \$	- \$	\$ 108,360 \$	- \$	- \$	10,836 \$	\$ 97,524 \$	\$ 97,524 \$	- \$	- \$
5.22.2: Angus Glen West Village Parkette	2014	\$ 21,672 \$	- \$	\$ 21,672 \$	- \$	- \$	2,167 \$	\$ 19,505 \$	\$ 19,505 \$	- \$	- \$
5.22.3: Boxgrove Community Park Washroom Pavilion and Pedestrian Bridge	2014	\$ 21,672 \$	- \$	\$ 21,672 \$	- \$	- \$	2,167 \$	\$ 19,505 \$	\$ 19,505 \$	- \$	- \$
5.22.3: Berczy Northcote McCowan Parkette	2014	\$ 173,376 \$	- \$	\$ 173,376 \$	- \$	- \$	17,338 \$	\$ 156,038 \$	\$ 156,038 \$	- \$	- \$
5.22.3: Cornell Community Park	2014	\$ 32,508 \$	- \$	\$ 32,508 \$	- \$	- \$	3,251 \$	\$ 29,257 \$	\$ 29,257 \$	- \$	- \$
5.22.3: Cornell Madison Rouge/Riverlands	2014	\$ 32,508 \$	- \$	\$ 32,508 \$	- \$	- \$	3,251 \$	\$ 29,257 \$	\$ 29,257 \$	- \$	- \$
5.22.3: Cornell Madison Rouge/Riverlands	2014	\$ 10,836 \$	- \$	\$ 10,836 \$	- \$	- \$	1,084 \$	\$ 9,752 \$	\$ 9,752 \$	- \$	- \$
5.22.3: Cornell Mattamy Cornell Park Ave. N.P.	2014	\$ 10,836 \$	- \$	\$ 10,836 \$	- \$	- \$	1,084 \$	\$ 9,752 \$	\$ 9,752 \$	- \$	- \$
5.22.3: Brother Andre Mt. Joy Comm. Park Maintenance Station	2014	\$ 30,341 \$	- \$	\$ 30,341 \$	- \$	- \$	3,034 \$	\$ 27,307 \$	\$ 27,307 \$	- \$	- \$
5.22.3: Greensborough Williamson NP	2014	\$ 32,508 \$	- \$	\$ 32,508 \$	- \$	- \$	3,251 \$	\$ 29,257 \$	\$ 29,257 \$	- \$	- \$
5.22.3: Greensborough Solace Rd. N.P.	2014	\$ 32,508 \$	- \$	\$ 32,508 \$	- \$	- \$	3,251 \$	\$ 29,257 \$	\$ 29,257 \$	- \$	- \$
5.22.3: Leitchcroft Community Park Phase 2 (Western park addition)	2014	\$ 16,254 \$	- \$	\$ 16,254 \$	- \$	- \$	1,625 \$	\$ 14,629 \$	\$ 14,629 \$	- \$	- \$
5.22.4: Main St Milliken NW Parkette (Cotton Lane)	2014	\$ 10,836 \$	- \$	\$ 10,836 \$	- \$	- \$	1,084 \$	\$ 9,752 \$	\$ 9,752 \$	- \$	- \$
5.22.4: Wismer Greenspire North Central Parkette	2014	\$ 21,672 \$	- \$	\$ 21,672 \$	- \$	- \$	2,167 \$	\$ 19,505 \$	\$ 19,505 \$	- \$	- \$
5.22.4: Wismer Donald Mingsay Parkette on Mingsay (4 parcels)	2014	\$ 43,344 \$	- \$	\$ 43,344 \$	- \$	- \$	4,334 \$	\$ 39,010 \$	\$ 39,010 \$	- \$	- \$
5.22.4: Wismer Hwy. #48 Hamersley Woodlot Park (3 parcels)	2014	\$ 21,672 \$	- \$	\$ 21,672 \$	- \$	- \$	2,167 \$	\$ 19,505 \$	\$ 19,505 \$	- \$	- \$
5.22.4: Wismer Hwy. #48 Museum North	2014	\$ 13,003 \$	- \$	\$ 13,003 \$	- \$	- \$	1,300 \$	\$ 11,703 \$	\$ 11,703 \$	- \$	- \$
5.22.4: Elgin St. Honsburger Park	2015	\$ 108,360 \$	- \$	\$ 108,360 \$	- \$	- \$	10,836 \$	\$ 97,524 \$	\$ 97,524 \$	- \$	- \$
5.22.4: Angus Glen Corn. Otr. Washroom Pavilion and Maintenance Station	2015	\$ 21,672 \$	- \$	\$ 21,672 \$	- \$	- \$	2,167 \$	\$ 19,505 \$	\$ 19,505 \$	- \$	- \$
5.22.4: Swan Lake Park South Williamson Phase 6	2015	\$ 10,836 \$	- \$	\$ 10,836 \$	- \$	- \$	1,084 \$	\$ 9,752 \$	\$ 9,752 \$	- \$	- \$
5.22.4: Berczy Beckett East Parkette	2015	\$ 32,508 \$	- \$	\$ 32,508 \$	- \$	- \$	3,251 \$	\$ 29,257 \$	\$ 29,257 \$	- \$	- \$
5.22.4: Berczy Beckett Neighbourhood Park	2015	\$ 10,836 \$	- \$	\$ 10,836 \$	- \$	- \$	1,084 \$	\$ 9,752 \$	\$ 9,752 \$	- \$	- \$
5.22.5: Berczy Beckett East Parkette	2015	\$ 10,836 \$	- \$	\$ 10,836 \$	- \$	- \$	1,084 \$	\$ 9,752 \$	\$ 9,752 \$	- \$	- \$
5.22.5: Berczy Beckett NW Parkette	2015	\$ 10,836 \$	- \$	\$ 10,836 \$	- \$	- \$	1,084 \$	\$ 9,752 \$	\$ 9,752 \$	- \$	- \$
5.22.5: Berczy Beckett NW Parkette	2015	\$ 10,836 \$	- \$	\$ 10,836 \$	- \$	- \$	1,084 \$	\$ 9,752 \$	\$ 9,752 \$	- \$	- \$
5.22.5: Berczy Beckett NE Parkette	2015	\$ 21,672 \$	- \$	\$ 21,672 \$	- \$	- \$	2,167 \$	\$ 19,505 \$	\$ 19,505 \$	- \$	- \$
5.22.5: Berczy Park near Prince Charles Way	2015	\$ 21,672 \$	- \$	\$ 21,672 \$	- \$	- \$	2,167 \$	\$ 19,505 \$	\$ 19,505 \$	- \$	- \$
5.22.5: Northwest Cathedral Neighbourhood Park S.	2015	\$ 18,421 \$	- \$	\$ 18,421 \$	- \$	- \$	1,842 \$	\$ 16,579 \$	\$ 16,579 \$	- \$	- \$
5.22.5: Northwest Cathedral Neighbourhood Park N.	2015	\$ 10,836 \$	- \$	\$ 10,836 \$	- \$	- \$	1,084 \$	\$ 9,752 \$	\$ 9,752 \$	- \$	- \$



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PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		Post 2022
						10% Reduction	Available DC Reserves		2013-2022		
5.0 PARK DEVELOPMENT & FACILITIES											
5.22 Pathways Concrete											
5.22.57: Cornell Community Centre Square	2015	\$ 43,344	\$ -	\$ 43,344	\$ -	\$ -	\$ 4,334	\$ 39,010	\$ -	\$ -	\$ 39,010
5.22.58: Cornell Maitamy East Church Street Parkette	2015	\$ 7,585	\$ -	\$ 7,585	\$ -	\$ -	\$ 759	\$ 6,827	\$ -	\$ -	\$ 6,827
5.22.59: Cornell Madison Rouge Blvd. Park	2015	\$ 27,090	\$ -	\$ 27,090	\$ -	\$ -	\$ 2,709	\$ 24,381	\$ -	\$ -	\$ 24,381
5.22.60: Cornell Madison Rouge Blvd. Park S.	2015	\$ 10,836	\$ -	\$ 10,836	\$ -	\$ -	\$ 1,084	\$ 9,752	\$ -	\$ -	\$ 9,752
5.22.61: Cornell Madison Urban Parkette	2015	\$ 10,836	\$ -	\$ 10,836	\$ -	\$ -	\$ 1,084	\$ 9,752	\$ -	\$ -	\$ 9,752
5.22.62: John Daniels - Phase 2 (Fairly Park)	2015	\$ 5,383	\$ -	\$ 5,383	\$ -	\$ -	\$ 538	\$ 4,845	\$ -	\$ -	\$ 4,845
5.22.63: Greensborough Alfred Patterson Neighbourhood Park	2015	\$ 32,508	\$ -	\$ 32,508	\$ -	\$ -	\$ 3,251	\$ 29,257	\$ -	\$ -	\$ 29,257
5.22.64: Swan Lake Park Block 31	2015	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ -	\$ 2,167	\$ 19,505	\$ -	\$ -	\$ 19,505
5.22.65: Liberty Markham Centre Oak Park Warden W.	2015	\$ 54,180	\$ -	\$ 54,180	\$ -	\$ -	\$ 5,418	\$ 48,762	\$ -	\$ -	\$ 48,762
5.22.66: Times-Murphy Hull Hwy. #7 Window Park	2015	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ -	\$ 2,167	\$ 19,505	\$ -	\$ -	\$ 19,505
5.22.67: Wismer McCowan Woodlot Park (4 parcels)	2015	\$ 40,093	\$ -	\$ 40,093	\$ -	\$ -	\$ 4,009	\$ 36,084	\$ -	\$ -	\$ 36,084
5.22.68: Box Grove Rennie Ave NBHD Park	2016	\$ 32,508	\$ -	\$ 32,508	\$ -	\$ -	\$ 3,251	\$ 29,257	\$ -	\$ -	\$ 29,257
5.22.69: East Cathedral Park adjacent Woodbine	2016	\$ 29,257	\$ -	\$ 29,257	\$ -	\$ -	\$ 2,926	\$ 26,331	\$ -	\$ -	\$ 26,331
5.22.70: Cornell Secondary School Neighbourhood Park	2016	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ -	\$ 2,167	\$ 19,505	\$ -	\$ -	\$ 19,505
5.22.71: Cornell Centre Maitamy Woodlot Park	2016	\$ 43,344	\$ -	\$ 43,344	\$ -	\$ -	\$ 4,334	\$ 39,010	\$ -	\$ -	\$ 39,010
5.22.72: Remnant Woodlot Parkette	2016	\$ 10,836	\$ -	\$ 10,836	\$ -	\$ -	\$ 1,084	\$ 9,752	\$ -	\$ -	\$ 9,752
5.22.73: North Donald Cousins Park	2016	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ -	\$ 2,167	\$ 19,505	\$ -	\$ -	\$ 19,505
5.22.74: Jessamyn Settler's Park Landscaping	2016	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ -	\$ 2,167	\$ 19,505	\$ -	\$ -	\$ 19,505
5.22.75: Remington Markham Centre Active Park East	2016	\$ 29,257	\$ -	\$ 29,257	\$ -	\$ -	\$ 2,926	\$ 26,331	\$ -	\$ -	\$ 26,331
5.22.76: Remington Markham Centre East Central Parkette	2016	\$ 43,344	\$ -	\$ 43,344	\$ -	\$ -	\$ 4,334	\$ 39,010	\$ -	\$ -	\$ 39,010
5.22.77: South Unionville Community Park W.	2016	\$ 54,180	\$ -	\$ 54,180	\$ -	\$ -	\$ 5,418	\$ 48,762	\$ -	\$ -	\$ 48,762
5.22.78: South Unionville West Greenburg Parkette	2016	\$ 5,418	\$ -	\$ 5,418	\$ -	\$ -	\$ 542	\$ 4,876	\$ -	\$ -	\$ 4,876
5.22.79: Wismer Alexander Lowrey Neighbourhood Park West	2016	\$ 32,508	\$ -	\$ 32,508	\$ -	\$ -	\$ 3,251	\$ 29,257	\$ -	\$ -	\$ 29,257
5.22.80: Wismer Alexander Lowrey Neighbourhood Park East	2016	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ -	\$ 2,167	\$ 19,505	\$ -	\$ -	\$ 19,505
5.22.81: Boxgrove Hill East Parkette	2017	\$ 10,836	\$ -	\$ 10,836	\$ -	\$ -	\$ 1,084	\$ 9,752	\$ -	\$ -	\$ 9,752
5.22.82: Berczy Park near Williams St	2017	\$ 10,836	\$ -	\$ 10,836	\$ -	\$ -	\$ 1,084	\$ 9,752	\$ -	\$ -	\$ 9,752
5.22.83: Woodbine North Entry Park (SW corner)	2017	\$ 10,836	\$ -	\$ 10,836	\$ -	\$ -	\$ 1,084	\$ 9,752	\$ -	\$ -	\$ 9,752
5.22.84: Woodbine North Entry Park (SE corner)	2017	\$ 10,836	\$ -	\$ 10,836	\$ -	\$ -	\$ 1,084	\$ 9,752	\$ -	\$ -	\$ 9,752
5.22.85: H&R Grand Cornell Horseshoe Park (Clock Tower) - PH 2	2017	\$ 10,836	\$ -	\$ 10,836	\$ -	\$ -	\$ 1,084	\$ 9,752	\$ -	\$ -	\$ 9,752
5.22.86: Cornell Maitamy N.P.	2017	\$ 32,508	\$ -	\$ 32,508	\$ -	\$ -	\$ 3,251	\$ 29,257	\$ -	\$ -	\$ 29,257
5.22.87: Cornell Centre South NBHD Park (HR)	2017	\$ 10,836	\$ -	\$ 10,836	\$ -	\$ -	\$ 1,084	\$ 9,752	\$ -	\$ -	\$ 9,752
5.22.88: Liberty Markham Centre Oak Park Warden E.	2017	\$ 54,180	\$ -	\$ 54,180	\$ -	\$ -	\$ 5,418	\$ 48,762	\$ -	\$ -	\$ 48,762
5.22.89: Remington Markham Centre Central Park S.	2017	\$ 140,868	\$ -	\$ 140,868	\$ -	\$ -	\$ 14,087	\$ 126,781	\$ -	\$ -	\$ 126,781
5.22.90: East Precinct Markham Centre N. Parkette	2017	\$ 32,508	\$ -	\$ 32,508	\$ -	\$ -	\$ 3,251	\$ 29,257	\$ -	\$ -	\$ 29,257
5.22.91: Remington Markham Centre N.E. Valley Edge Parkette	2017	\$ 10,836	\$ -	\$ 10,836	\$ -	\$ -	\$ 1,084	\$ 9,752	\$ -	\$ -	\$ 9,752
5.22.92: Main Street Milliken NW Parkette	2017	\$ 16,254	\$ -	\$ 16,254	\$ -	\$ -	\$ 1,625	\$ 14,629	\$ -	\$ -	\$ 14,629
5.22.93: Victoria Square Community Park N. Phase	2018	\$ 86,688	\$ -	\$ 86,688	\$ -	\$ -	\$ 8,669	\$ 78,019	\$ -	\$ -	\$ 78,019
5.22.94: Cornell Madison East Channel Park (North)	2018	\$ 32,508	\$ -	\$ 32,508	\$ -	\$ -	\$ 3,251	\$ 29,257	\$ -	\$ -	\$ 29,257
5.22.95: Cornell Madison East Channel Park (South)	2018	\$ 32,508	\$ -	\$ 32,508	\$ -	\$ -	\$ 3,251	\$ 29,257	\$ -	\$ -	\$ 29,257
5.22.96: H & R Grand Cornell South Valley Edge Park East and West Banks	2018	\$ 43,344	\$ -	\$ 43,344	\$ -	\$ -	\$ 4,334	\$ 39,010	\$ -	\$ -	\$ 39,010
5.22.97: Upper Cornell Parkette	2018	\$ 32,508	\$ -	\$ 32,508	\$ -	\$ -	\$ 3,251	\$ 29,257	\$ -	\$ -	\$ 29,257
5.22.98: Times-Murphy Hull Valley Edge Park N.	2018	\$ 86,688	\$ -	\$ 86,688	\$ -	\$ -	\$ 8,669	\$ 78,019	\$ -	\$ -	\$ 78,019
5.22.99: OPA 15 Markham Centre Neighbourhood Park	2018	\$ 162,540	\$ -	\$ 162,540	\$ -	\$ -	\$ 16,254	\$ 146,286	\$ -	\$ -	\$ 146,286
5.22.100: OPA 15 Markham Centre Village Parkway Town Square	2018	\$ 32,508	\$ -	\$ 32,508	\$ -	\$ -	\$ 3,251	\$ 29,257	\$ -	\$ -	\$ 29,257
5.22.101: Highway No. 7 & Warden Ave. Park	2018	\$ 65,016	\$ -	\$ 65,016	\$ -	\$ -	\$ 6,502	\$ 58,514	\$ -	\$ -	\$ 58,514

CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Subcontractor Receivables	Net Municipal Cost	Repairs, Maintenance & BTE Shares	Ineligible Costs (Repairs, Maintenance & BTE Shares)	Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs 2022	Part 2022
5.0 PARK DEVELOPMENT & FACILITIES										
5.22 Pathways Concrete										
5.22.1(Ayeh Strata Park adjacent Ayeh	2018	\$ 75,852	\$ -	\$ 75,852	\$ -	\$ -	\$ 75,852	\$ -	\$ -	\$ 66,267
5.22.1(Heritage Park adjacent Ayeh Strata Park	2018	\$ 32,508	\$ -	\$ 32,508	\$ -	\$ -	\$ 32,508	\$ -	\$ -	\$ 29,257
5.22.1(Annina Court to McCowan Trail Park	2018	\$ 32,508	\$ -	\$ 32,508	\$ -	\$ -	\$ 32,508	\$ -	\$ -	\$ 29,257
5.22.1(Yonge/John St. Parkette	2018	\$ 16,254	\$ -	\$ 16,254	\$ -	\$ -	\$ 16,254	\$ -	\$ -	\$ 14,629
5.22.1(Yonge/Cabourne St. Parkette	2018	\$ 16,254	\$ -	\$ 16,254	\$ -	\$ -	\$ 16,254	\$ -	\$ -	\$ 14,629
5.22.1(Angus Glen West Village Riverside Park W.	2019	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ -	\$ 21,672	\$ -	\$ -	\$ 19,505
5.22.1(Angus Glen Parkette adjacent East Village	2019	\$ 10,836	\$ -	\$ 10,836	\$ -	\$ -	\$ 10,836	\$ -	\$ -	\$ 9,752
5.22.1(Cornell Madison South Woodlot Park	2019	\$ 18,421	\$ -	\$ 18,421	\$ -	\$ -	\$ 18,421	\$ -	\$ -	\$ 16,579
5.22.1(Cornell Madison Hwy. #7 and Rouge Blvd. Linear Park	2019	\$ 32,508	\$ -	\$ 32,508	\$ -	\$ -	\$ 32,508	\$ -	\$ -	\$ 29,257
5.22.1(H & R Grand Cornell Hwy. #7 and Rouge Blvd. South Linear Park	2019	\$ 16,254	\$ -	\$ 16,254	\$ -	\$ -	\$ 16,254	\$ -	\$ -	\$ 14,629
5.22.1(H & R Grand Cornell Hwy. #7 and Rouge Blvd. Southwest Linear Park	2019	\$ 16,254	\$ -	\$ 16,254	\$ -	\$ -	\$ 16,254	\$ -	\$ -	\$ 14,629
5.22.1(Fairtree East Village Forest Bay Neighbourhood Park	2019	\$ 34,675	\$ -	\$ 34,675	\$ -	\$ -	\$ 34,675	\$ -	\$ -	\$ 31,208
5.22.1(Greensborough North Parkway N.P. West	2019	\$ 10,836	\$ -	\$ 10,836	\$ -	\$ -	\$ 10,836	\$ -	\$ -	\$ 9,752
5.22.1(Remington Markham Centre Central Park N. Phase 2	2019	\$ 43,344	\$ -	\$ 43,344	\$ -	\$ -	\$ 43,344	\$ -	\$ -	\$ 39,010
5.22.1(Times-Murphy Hill Valley Edge Park S.	2019	\$ 65,016	\$ -	\$ 65,016	\$ -	\$ -	\$ 65,016	\$ -	\$ -	\$ 58,514
5.22.1(Times-Murphy Hill Valley Edge Park E.	2019	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ -	\$ 21,672	\$ -	\$ -	\$ 19,505
5.22.1(OPA 15 Markham Centre Chiment Court Park	2019	\$ 86,688	\$ -	\$ 86,688	\$ -	\$ -	\$ 86,688	\$ -	\$ -	\$ 78,019
5.22.1(Wisner Hwy. #48 Anderson Ave. Park	2019	\$ 10,836	\$ -	\$ 10,836	\$ -	\$ -	\$ 10,836	\$ -	\$ -	\$ 9,752
5.22.1(Dudley Park	2019	\$ 97,524	\$ -	\$ 97,524	\$ -	\$ -	\$ 97,524	\$ -	\$ -	\$ 87,772
5.22.1(Woodbine Bypass Park	2020	\$ 32,508	\$ -	\$ 32,508	\$ -	\$ -	\$ 32,508	\$ -	\$ -	\$ 29,257
5.22.1(Cornell Shoff Hwy. #7 and 8th Line N.P.	2020	\$ 37,926	\$ -	\$ 37,926	\$ -	\$ -	\$ 37,926	\$ -	\$ -	\$ 34,133
5.22.1(Cornell SW park	2020	\$ 37,926	\$ -	\$ 37,926	\$ -	\$ -	\$ 37,926	\$ -	\$ -	\$ 34,133
5.22.1(John St Community Park (Southeast of Cottonwood Crt)	2020	\$ 108,360	\$ -	\$ 108,360	\$ -	\$ -	\$ 108,360	\$ -	\$ -	\$ 97,524
5.22.1(Tridel Markham Centre Linear Park W. (West of Circa Dr.)	2020	\$ 37,926	\$ -	\$ 37,926	\$ -	\$ -	\$ 37,926	\$ -	\$ -	\$ 34,133
5.22.1(Remington Markham Centre East Valley Edge Linear Park	2020	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ -	\$ 21,672	\$ -	\$ -	\$ 19,505
5.22.1(East Precinct Markham Centre S. Parkette	2020	\$ 54,180	\$ -	\$ 54,180	\$ -	\$ -	\$ 54,180	\$ -	\$ -	\$ 48,762
5.22.1(Remington Markham Centre Central Park N.	2020	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ -	\$ 21,672	\$ -	\$ -	\$ 19,505
5.22.1(Tridel Markham Centre Linear Park W. (West of Phase 2, East of Ch	2020	\$ 108,360	\$ -	\$ 108,360	\$ -	\$ -	\$ 108,360	\$ -	\$ -	\$ 97,524
5.22.1(East Warden at Clegg Road Park NE side	2020	\$ 54,180	\$ -	\$ 54,180	\$ -	\$ -	\$ 54,180	\$ -	\$ -	\$ 48,762
5.22.1(Main Street Milliken Armaide N.P.	2020	\$ 32,508	\$ -	\$ 32,508	\$ -	\$ -	\$ 32,508	\$ -	\$ -	\$ 29,257
5.22.1(Main Street Milliken SE Parkette	2020	\$ 16,254	\$ -	\$ 16,254	\$ -	\$ -	\$ 16,254	\$ -	\$ -	\$ 14,629
5.22.1(Main Street Milliken SW Parkette	2020	\$ 16,254	\$ -	\$ 16,254	\$ -	\$ -	\$ 16,254	\$ -	\$ -	\$ 14,629
5.22.1(Yonge/Eggn St. Parkette	2021	\$ 43,344	\$ -	\$ 43,344	\$ -	\$ -	\$ 43,344	\$ -	\$ -	\$ 39,010
5.22.1(H & R Grand Cornell Southwest Woodlot N. P.	2021	\$ 65,016	\$ -	\$ 65,016	\$ -	\$ -	\$ 65,016	\$ -	\$ -	\$ 58,514
5.22.1(Fairtree East Village Remington Parkview Community Park E.	2021	\$ 65,016	\$ -	\$ 65,016	\$ -	\$ -	\$ 65,016	\$ -	\$ -	\$ 58,514
5.22.1(Fairtree East Village Remington Parkview Neighbourhood Park	2021	\$ 10,836	\$ -	\$ 10,836	\$ -	\$ -	\$ 10,836	\$ -	\$ -	\$ 9,752
5.22.1(Fairtree East Village Remington Parkview Parkette	2021	\$ 86,688	\$ -	\$ 86,688	\$ -	\$ -	\$ 86,688	\$ -	\$ -	\$ 78,019
5.22.1(Don Mills/Steeles Markhamgate Park	2021	\$ 75,852	\$ -	\$ 75,852	\$ -	\$ -	\$ 75,852	\$ -	\$ -	\$ 66,267
5.22.1(Times-Murphy Hill Valley Edge Park N.W.	2021	\$ 54,180	\$ -	\$ 54,180	\$ -	\$ -	\$ 54,180	\$ -	\$ -	\$ 48,762
5.22.1(Park N.E. Of Verdane Gate	2021	\$ 43,344	\$ -	\$ 43,344	\$ -	\$ -	\$ 43,344	\$ -	\$ -	\$ 39,010
5.22.1(Wisner Hwy. #48 Major Mackenzie Park	2022	\$ 65,016	\$ -	\$ 65,016	\$ -	\$ -	\$ 65,016	\$ -	\$ -	\$ 58,514
5.22.1(Upper Cornell N.P.	2022	\$ 32,508	\$ -	\$ 32,508	\$ -	\$ -	\$ 32,508	\$ -	\$ -	\$ 29,257
5.22.1(Times-Murphy Hill Warden & Hwy. #7 Oval Parkette	2022	\$ 16,254	\$ -	\$ 16,254	\$ -	\$ -	\$ 16,254	\$ -	\$ -	\$ 14,629
5.22.1(Yonge/Steeles Clark Ave. Parkette	2022	\$ 54,180	\$ -	\$ 54,180	\$ -	\$ -	\$ 54,180	\$ -	\$ -	\$ 48,762
5.22.1(Yonge/Steeles Morgan Ave. Parkette	2022	\$ 16,254	\$ -	\$ 16,254	\$ -	\$ -	\$ 16,254	\$ -	\$ -	\$ 14,629
5.22.1(Yonge/Steeles Glen Cameron Rd. Parkette	2022	\$ 10,836	\$ -	\$ 10,836	\$ -	\$ -	\$ 10,836	\$ -	\$ -	\$ 9,752
5.22.1(Yonge/Steeles Grandview Ave. Parkette	2022	\$ 10,836	\$ -	\$ 10,836	\$ -	\$ -	\$ 10,836	\$ -	\$ -	\$ 9,752
5.22.1(Yonge/Steeles Woodward Ave. Parkette	2022	\$ 216,720	\$ -	\$ 216,720	\$ -	\$ -	\$ 216,720	\$ -	\$ -	\$ 195,048
5.22.1(Yonge/Steeles Highland Park Ave. Parkette N.	2022	\$ 10,836	\$ -	\$ 10,836	\$ -	\$ -	\$ 10,836	\$ -	\$ -	\$ 9,752
5.22.1(Yonge/Steeles Highland Park Ave. Parkette S.	2022	\$ 6,271,617	\$ -	\$ 6,271,617	\$ -	\$ -	\$ 6,271,617	\$ -	\$ -	\$ 5,814,455
Subtotal Pathways Concrete		\$ 6,271,617	\$ -	\$ 6,271,617	\$ -	\$ -	\$ 6,271,617	\$ 1,781,420	\$ 482,496	\$ 3,640,539



APPENDIX B.5
TABLE 2 - PAGE 25
CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs 10% Reduction	Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs 2013-2022	Post 2022
5.0 PARK DEVELOPMENT & FACILITIES										
5.23 Pathways Paved Asphalt										
5.23.1 Angus Glen Community Centre Park	2013	\$ 42,798	\$ -	\$ 42,798	\$ -	\$ -	\$ 4,280	\$ 38,518	\$ -	\$ -
5.23.2 Angus Glen West Village Triangle Parkette	2013	\$ 12,136	\$ -	\$ 12,136	\$ -	\$ -	\$ 1,214	\$ 10,923	\$ -	\$ -
5.23.3 Angus Glen West Village Edge/Playground Park	2013	\$ 13,003	\$ -	\$ 13,003	\$ -	\$ -	\$ 1,300	\$ 11,703	\$ -	\$ -
5.23.4 Boxgrove Southeast Heritage House Parkette	2013	\$ 17,338	\$ -	\$ 17,338	\$ -	\$ -	\$ 1,734	\$ 15,604	\$ -	\$ -
5.23.5 Kentview Parkette (with Box-9)	2013	\$ 6,502	\$ -	\$ 6,502	\$ -	\$ -	\$ 650	\$ 5,851	\$ -	\$ -
5.23.6 Victoria Square Community Park S. Phase Playground and Waterplay	2013	\$ 17,338	\$ -	\$ 17,338	\$ -	\$ -	\$ 1,734	\$ 15,604	\$ -	\$ -
5.23.7 Southwest Cathedral Monarch Memorial Parkette	2013	\$ 11,269	\$ -	\$ 11,269	\$ -	\$ -	\$ 1,127	\$ 10,142	\$ -	\$ -
5.23.8 Kikham Park (South East Markham Community Centre Park)	2013	\$ 39,010	\$ -	\$ 39,010	\$ -	\$ -	\$ 3,901	\$ 35,109	\$ -	\$ -
5.23.9 Leichcroft (Times) Community Park	2013	\$ 15,604	\$ -	\$ 15,604	\$ -	\$ -	\$ 1,560	\$ 14,043	\$ -	\$ -
5.23.10 South Unionville Ray Street Parkette E.	2013	\$ 8,669	\$ -	\$ 8,669	\$ -	\$ -	\$ 867	\$ 7,802	\$ -	\$ -
5.23.11 Tridel Markham Centre Linear Park E. (East of Circa - Phase 2 only)	2013	\$ 17,338	\$ -	\$ 17,338	\$ -	\$ -	\$ 1,734	\$ 15,604	\$ -	\$ -
5.23.12 Rennington Markham Centre Heritage House Parkette (2 parcels)	2013	\$ 11,269	\$ -	\$ 11,269	\$ -	\$ -	\$ 1,127	\$ 10,142	\$ -	\$ -
5.23.13 Markham Sports Park	2013	\$ 216,720	\$ -	\$ 216,720	\$ -	\$ -	\$ 21,672	\$ 195,048	\$ 5,230	\$ -
5.23.14 Wismer Community Park Phase 3 Castlemore Frontage	2013	\$ 26,006	\$ -	\$ 26,006	\$ -	\$ -	\$ 2,601	\$ 23,406	\$ -	\$ 195,048
5.23.15 Angus Glen West Village Parkette	2014	\$ 8,669	\$ -	\$ 8,669	\$ -	\$ -	\$ 867	\$ 7,802	\$ -	\$ 23,406
5.23.16 Boxgrove Community Park Washroom Pavilion and Pedestrian Bridge	2014	\$ 26,006	\$ -	\$ 26,006	\$ -	\$ -	\$ 2,601	\$ 23,406	\$ -	\$ 7,802
5.23.17 Berczy Northeast McCowan Parkette	2014	\$ 13,003	\$ -	\$ 13,003	\$ -	\$ -	\$ 1,300	\$ 11,703	\$ -	\$ 23,406
5.23.18 Connell Community Park	2014	\$ 216,720	\$ -	\$ 216,720	\$ -	\$ -	\$ 21,672	\$ 195,048	\$ -	\$ 195,048
5.23.19 Connell Maitamy Cornell Park Ave. N.P.	2014	\$ 15,170	\$ -	\$ 15,170	\$ -	\$ -	\$ 1,517	\$ 13,653	\$ -	\$ 13,653
5.23.20 Brother Andre Mt. Joy Comm. Park Maintenance Station	2014	\$ 8,669	\$ -	\$ 8,669	\$ -	\$ -	\$ 867	\$ 7,802	\$ -	\$ 7,802
5.23.21 Greensborough Williamson NP	2014	\$ 24,273	\$ -	\$ 24,273	\$ -	\$ -	\$ 2,427	\$ 21,845	\$ -	\$ 21,845
5.23.22 Greensborough Soase Rd. N.P.	2014	\$ 8,669	\$ -	\$ 8,669	\$ -	\$ -	\$ 867	\$ 7,802	\$ -	\$ 7,802
5.23.23 Leichcroft Community Park Phase 2 (Western park addition)	2014	\$ 8,669	\$ -	\$ 8,669	\$ -	\$ -	\$ 867	\$ 7,802	\$ -	\$ 7,802
5.23.24 Wismer Greenspire North Central Parkette	2014	\$ 8,669	\$ -	\$ 8,669	\$ -	\$ -	\$ 867	\$ 7,802	\$ -	\$ 7,802
5.23.25 Wismer Donald Mingay Parkette on Mingay (4 parcels)	2014	\$ 8,669	\$ -	\$ 8,669	\$ -	\$ -	\$ 867	\$ 7,802	\$ -	\$ 7,802
5.23.26 Wismer Hwy. #48 Hamersley Woodlot Park (3 parcels)	2014	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ -	\$ 2,167	\$ 19,505	\$ -	\$ 19,505
5.23.27 Wismer Hwy. #48 Museum North	2014	\$ 17,338	\$ -	\$ 17,338	\$ -	\$ -	\$ 1,734	\$ 15,604	\$ -	\$ 15,604
5.23.28 Elgin St. Honsburger Park	2014	\$ 26,006	\$ -	\$ 26,006	\$ -	\$ -	\$ 2,601	\$ 23,406	\$ -	\$ 23,406
5.23.29 Berczy Beckett East Parkette	2015	\$ 13,003	\$ -	\$ 13,003	\$ -	\$ -	\$ 1,300	\$ 11,703	\$ -	\$ 11,703
5.23.30 Berczy Beckett Neighbourhood Park	2015	\$ 26,006	\$ -	\$ 26,006	\$ -	\$ -	\$ 2,601	\$ 23,406	\$ -	\$ 23,406
5.23.31 Berczy Beckett East Parkette	2015	\$ 13,003	\$ -	\$ 13,003	\$ -	\$ -	\$ 1,300	\$ 11,703	\$ -	\$ 11,703
5.23.32 Berczy Beckett NW Parkette	2015	\$ 13,003	\$ -	\$ 13,003	\$ -	\$ -	\$ 1,300	\$ 11,703	\$ -	\$ 11,703
5.23.33 Berczy Beckett NE Parkette	2015	\$ 8,669	\$ -	\$ 8,669	\$ -	\$ -	\$ 867	\$ 7,802	\$ -	\$ 7,802
5.23.34 Berczy Park near Prince Charles Way	2015	\$ 8,669	\$ -	\$ 8,669	\$ -	\$ -	\$ 867	\$ 7,802	\$ -	\$ 7,802
5.23.35 Northwest Cathedral Neighbourhood Park N.	2015	\$ 13,003	\$ -	\$ 13,003	\$ -	\$ -	\$ 1,300	\$ 11,703	\$ -	\$ 11,703
5.23.36 Connell Community Park - Washroom Pavilion and Maintenance Station	2015	\$ 12,136	\$ -	\$ 12,136	\$ -	\$ -	\$ 1,214	\$ 10,923	\$ -	\$ 10,923
5.23.37 Connell Maitamy East Church Street Parkette	2015	\$ 8,669	\$ -	\$ 8,669	\$ -	\$ -	\$ 867	\$ 7,802	\$ -	\$ 7,802
5.23.38 Connell Madison Rouge Blvd. Park	2015	\$ 13,003	\$ -	\$ 13,003	\$ -	\$ -	\$ 1,300	\$ 11,703	\$ -	\$ 11,703
5.23.39 Connell Madison Rouge Blvd. Park S.	2015	\$ 13,003	\$ -	\$ 13,003	\$ -	\$ -	\$ 1,300	\$ 11,703	\$ -	\$ 11,703
5.23.40 Connell Madison Urban Parkette	2015	\$ 2,887	\$ -	\$ 2,887	\$ -	\$ -	\$ 289	\$ 2,598	\$ -	\$ 2,598
5.23.41 John Daniels - Phase 2 (Fairly Park)	2015	\$ 17,338	\$ -	\$ 17,338	\$ -	\$ -	\$ 1,734	\$ 15,604	\$ -	\$ 15,604
5.23.42 Greensborough Alfred Patterson Neighbourhood Park	2015	\$ 13,003	\$ -	\$ 13,003	\$ -	\$ -	\$ 1,300	\$ 11,703	\$ -	\$ 11,703
5.23.43 Swan Lake Park Block 31	2015	\$ 10,403	\$ -	\$ 10,403	\$ -	\$ -	\$ 1,040	\$ 9,362	\$ -	\$ 9,362
5.23.44 Liberty Markham Centre Oak Park Warden W.	2015	\$ 21,239	\$ -	\$ 21,239	\$ -	\$ -	\$ 2,124	\$ 19,115	\$ -	\$ 19,115
5.23.45 Wismer McCowan Woodlot Park (4 parcels)	2015	\$ 21,239	\$ -	\$ 21,239	\$ -	\$ -	\$ 2,124	\$ 19,115	\$ -	\$ 19,115



APPENDIX B.5
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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs 10% Reduction	Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs 2013-2022	Post 2022
5.0 PARK DEVELOPMENT & FACILITIES										
5.23 Pathways Paved Asphalt										
5.23.41Box Grove Rennie Ave NBHD Park	2016	\$ 58,514	\$ -	\$ 58,514	\$ -	\$ -	\$ 52,663	\$ -	\$ -	\$ 52,663
5.23.44Northwest Cathedral Woodlot Park	2016	\$ 13,003	\$ -	\$ 13,003	\$ -	\$ -	\$ 11,703	\$ -	\$ -	\$ 11,703
5.23.44East Cathedral Park adjacent Woodbine	2016	\$ 15,604	\$ -	\$ 15,604	\$ -	\$ -	\$ 14,043	\$ -	\$ -	\$ 14,043
5.23.51Cornell Secondary School Neighbourhood Park	2016	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ -	\$ 19,505	\$ -	\$ -	\$ 19,505
5.23.51Cornell Centre Maitamy Woodlot Park	2016	\$ 13,003	\$ -	\$ 13,003	\$ -	\$ -	\$ 11,703	\$ -	\$ -	\$ 11,703
5.23.54Remnant Woodlot Parkette	2016	\$ 8,669	\$ -	\$ 8,669	\$ -	\$ -	\$ 7,802	\$ -	\$ -	\$ 7,802
5.23.55North Donald Cousins Park	2016	\$ 13,003	\$ -	\$ 13,003	\$ -	\$ -	\$ 11,703	\$ -	\$ -	\$ 11,703
5.23.54Jessamyn Settlers Park Landscaping	2016	\$ 13,003	\$ -	\$ 13,003	\$ -	\$ -	\$ 11,703	\$ -	\$ -	\$ 11,703
5.23.55Remington Markham Centre Active Park East	2016	\$ 15,604	\$ -	\$ 15,604	\$ -	\$ -	\$ 14,043	\$ -	\$ -	\$ 14,043
5.23.55South Unionville Community Park W.	2016	\$ 26,006	\$ -	\$ 26,006	\$ -	\$ -	\$ 23,406	\$ -	\$ -	\$ 23,406
5.23.57South Unionville West Greenburg Parkette	2016	\$ 13,003	\$ -	\$ 13,003	\$ -	\$ -	\$ 11,703	\$ -	\$ -	\$ 11,703
5.23.58Wismer Alexander Lowrey Neighbourhood Park West	2016	\$ 14,304	\$ -	\$ 14,304	\$ -	\$ -	\$ 12,873	\$ -	\$ -	\$ 12,873
5.23.58Wismer Alexander Lowrey Neighbourhood Park East	2016	\$ 14,304	\$ -	\$ 14,304	\$ -	\$ -	\$ 12,873	\$ -	\$ -	\$ 12,873
5.23.61Cobgrove Hill East Parkette	2017	\$ 8,669	\$ -	\$ 8,669	\$ -	\$ -	\$ 7,802	\$ -	\$ -	\$ 7,802
5.23.61Berzcy Park near Williams St	2017	\$ 15,170	\$ -	\$ 15,170	\$ -	\$ -	\$ 13,653	\$ -	\$ -	\$ 13,653
5.23.62Woodbine North Entry Park (SW corner)	2017	\$ 4,334	\$ -	\$ 4,334	\$ -	\$ -	\$ 3,901	\$ -	\$ -	\$ 3,901
5.23.62Woodbine North Entry Park (SE corner)	2017	\$ 4,334	\$ -	\$ 4,334	\$ -	\$ -	\$ 3,901	\$ -	\$ -	\$ 3,901
5.23.64H&R Grand Cornell Horseshoe Park (Clock Tower) - PH 2	2017	\$ 19,505	\$ -	\$ 19,505	\$ -	\$ -	\$ 17,554	\$ -	\$ -	\$ 17,554
5.23.65Cornell Centre Maitamy N.P.	2017	\$ 26,006	\$ -	\$ 26,006	\$ -	\$ -	\$ 23,406	\$ -	\$ -	\$ 23,406
5.23.65Victoria Square Community Park N. Phase	2018	\$ 69,350	\$ -	\$ 69,350	\$ -	\$ -	\$ 62,415	\$ -	\$ -	\$ 62,415
5.23.67Cornell Madison East Channel Park (North)	2018	\$ 60,682	\$ -	\$ 60,682	\$ -	\$ -	\$ 54,613	\$ -	\$ -	\$ 54,613
5.23.67Cornell Madison East Channel Park (South)	2018	\$ 60,682	\$ -	\$ 60,682	\$ -	\$ -	\$ 54,613	\$ -	\$ -	\$ 54,613
5.23.65H & R Grand Cornell South Valley Edge Park East and West Banks	2018	\$ 78,019	\$ -	\$ 78,019	\$ -	\$ -	\$ 70,217	\$ -	\$ -	\$ 70,217
5.23.71Times-Murphy Hull Valley Edge Park N.	2018	\$ 86,688	\$ -	\$ 86,688	\$ -	\$ -	\$ 78,019	\$ -	\$ -	\$ 78,019
5.23.71OPA 15 Markham Centre Neighbourhood Park	2018	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ -	\$ 19,505	\$ -	\$ -	\$ 19,505
5.23.72Heritage Park adjacent Aryeh Strata Park	2018	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ -	\$ 19,505	\$ -	\$ -	\$ 19,505
5.23.72Annina Court to McCowan Trail Park	2018	\$ 52,013	\$ -	\$ 52,013	\$ -	\$ -	\$ 46,812	\$ -	\$ -	\$ 46,812
5.23.74Angus Glen Parkette adjacent East Village	2019	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ -	\$ 19,505	\$ -	\$ -	\$ 19,505
5.23.75Cornell Madison South Woodlot Park	2019	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ -	\$ 19,505	\$ -	\$ -	\$ 19,505
5.23.75Cornell Madison South Woodlot Park	2019	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ -	\$ 19,505	\$ -	\$ -	\$ 19,505
5.23.77Cornell Madison Hwy. #7 and Rouge Blvd. Linear Park	2019	\$ 21,672	\$ -	\$ 21,672	\$ -	\$ -	\$ 19,505	\$ -	\$ -	\$ 19,505
5.23.78H & R Grand Cornell Hwy. #7 and Rouge Blvd. South Linear Park	2019	\$ 17,338	\$ -	\$ 17,338	\$ -	\$ -	\$ 15,604	\$ -	\$ -	\$ 15,604
5.23.78H & R Grand Cornell Hwy. #7 and Rouge Blvd. Southwest Linear Park	2019	\$ 17,338	\$ -	\$ 17,338	\$ -	\$ -	\$ 15,604	\$ -	\$ -	\$ 15,604
5.23.81Fairtree East Village Forest Bay Neighbourhood Park	2019	\$ 19,071	\$ -	\$ 19,071	\$ -	\$ -	\$ 17,164	\$ -	\$ -	\$ 17,164
5.23.81Greensborough North Parkway N.P. West	2019	\$ 13,003	\$ -	\$ 13,003	\$ -	\$ -	\$ 11,703	\$ -	\$ -	\$ 11,703
5.23.82Greensborough North Parkway N.P. East	2019	\$ 43,344	\$ -	\$ 43,344	\$ -	\$ -	\$ 39,010	\$ -	\$ -	\$ 39,010
5.23.83Remington Markham Centre Central Park N. Phase 2	2019	\$ 104,026	\$ -	\$ 104,026	\$ -	\$ -	\$ 93,623	\$ -	\$ -	\$ 93,623
5.23.84Times-Murphy Hull Valley Edge Park S.	2019	\$ 34,675	\$ -	\$ 34,675	\$ -	\$ -	\$ 31,208	\$ -	\$ -	\$ 31,208
5.23.85Times-Murphy Hull Valley Edge Park E.	2019	\$ 26,006	\$ -	\$ 26,006	\$ -	\$ -	\$ 23,406	\$ -	\$ -	\$ 23,406
5.23.86OPA 15 Markham Centre Chiment Court Park	2019	\$ 17,338	\$ -	\$ 17,338	\$ -	\$ -	\$ 15,604	\$ -	\$ -	\$ 15,604
5.23.87Wismer Hwy. #48 Anderson Ave. Park	2019	\$ 13,003	\$ -	\$ 13,003	\$ -	\$ -	\$ 11,703	\$ -	\$ -	\$ 11,703
5.23.88Woodbine Bypass Park	2020	\$ 30,341	\$ -	\$ 30,341	\$ -	\$ -	\$ 27,307	\$ -	\$ -	\$ 27,307



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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		Post 2022
					Replacement & BTE Shares	10% Reduction		Available DC Reserves	2013-2022	
5.0 PARK DEVELOPMENT & FACILITIES										
5.23 Pathways Paved Asphalt										
523.90 Cornell Shroff Hwy. #7 and 9th Line N.P.	2020	\$ 21,672	-	\$ 21,672	-	\$ 2,167	\$ 19,505	-	\$ -	\$ 19,505
523.91 Cornell SW park	2020	\$ 21,672	-	\$ 21,672	-	\$ 2,167	\$ 19,505	-	\$ -	\$ 19,505
523.92 John St Community Park (South/east of Cottonwood Ct)	2020	\$ 130,032	-	\$ 130,032	-	\$ 13,003	\$ 117,029	-	\$ -	\$ 117,029
523.93 Remington Markham Centre East Valley Edge Linear Park	2020	\$ 17,338	-	\$ 17,338	-	\$ 1,734	\$ 15,604	-	\$ -	\$ 15,604
523.94 East Precinct Markham Centre S. Parkette	2020	\$ 13,003	-	\$ 13,003	-	\$ 1,300	\$ 11,703	-	\$ -	\$ 11,703
523.95 East Warden at Clegg Road Park NE side	2020	\$ 30,341	-	\$ 30,341	-	\$ 3,034	\$ 27,307	-	\$ -	\$ 27,307
523.96 Main Street Milliken Armadale N.P.	2020	\$ 30,341	-	\$ 30,341	-	\$ 3,034	\$ 27,307	-	\$ -	\$ 27,307
523.97 H & R Grand Cornell Southwest Woodlot N. P.	2021	\$ 17,338	-	\$ 17,338	-	\$ 1,734	\$ 15,604	-	\$ -	\$ 15,604
523.98 Fairtree East Village Remington Parkview Community Park E.	2021	\$ 34,675	-	\$ 34,675	-	\$ 3,468	\$ 31,208	-	\$ -	\$ 31,208
523.99 Fairtree East Village Remington Parkview Neighbourhood Park	2021	\$ 43,344	-	\$ 43,344	-	\$ 4,334	\$ 39,010	-	\$ -	\$ 39,010
523.10 Fairtree East Village Remington Parkview Parkette	2021	\$ 13,003	-	\$ 13,003	-	\$ 1,300	\$ 11,703	-	\$ -	\$ 11,703
523.10 Park N.E. Of Verdriare Gate	2021	\$ 30,341	-	\$ 30,341	-	\$ 3,034	\$ 27,307	-	\$ -	\$ 27,307
523.10 Wismer Hwy. #48 Major Mackenzie Park	2021	\$ 26,006	-	\$ 26,006	-	\$ 2,601	\$ 23,406	-	\$ -	\$ 23,406
523.10 Upper Cornell N.P.	2022	\$ 43,344	-	\$ 43,344	-	\$ 4,334	\$ 39,010	-	\$ -	\$ 39,010
Subtotal Pathways Paved Asphalt		\$ 2,780,691	-	\$ 2,780,691	-	\$ 278,069	\$ 2,502,622	-	\$ 185,815	\$ 1,722,141
5.24 Pathways Granular										
524.1 Angus Glen Community Centre Park	2013	\$ 8,709	-	\$ 8,709	-	\$ 871	\$ 7,838	-	\$ -	\$ 7,838
524.2 Boxgrove Community Park	2013	\$ 32,508	-	\$ 32,508	-	\$ 3,251	\$ 29,257	-	\$ -	\$ 29,257
524.3 Southwest Cathedral Monarch Memorial Neighbourhood Park	2013	\$ 4,471	-	\$ 4,471	-	\$ 447	\$ 4,023	-	\$ -	\$ 4,023
524.4 Cornell Madison East Woodlot Park	2013	\$ 30,341	-	\$ 30,341	-	\$ 3,034	\$ 27,307	-	\$ -	\$ 27,307
524.5 Markham Sports Park	2013	\$ 108,360	-	\$ 108,360	-	\$ 10,836	\$ 97,524	-	\$ -	\$ 97,524
524.6 Wismer Donald Mingay Parkette on Mingay (4 parcels)	2014	\$ 8,669	-	\$ 8,669	-	\$ 867	\$ 7,802	-	\$ -	\$ 7,802
524.7 Wismer Hwy. #48 Hamersley Woodlot Park (3 parcels)	2014	\$ 4,334	-	\$ 4,334	-	\$ 433	\$ 3,901	-	\$ -	\$ 3,901
524.8 Wismer Hwy. #48 Museum North	2014	\$ 13,003	-	\$ 13,003	-	\$ 1,300	\$ 11,703	-	\$ -	\$ 11,703
524.9 Berczy Beckett NE Parkette	2015	\$ 8,669	-	\$ 8,669	-	\$ 867	\$ 7,802	-	\$ -	\$ 7,802
524.10 Berczy Park near Prince Charles Way	2015	\$ 8,669	-	\$ 8,669	-	\$ 867	\$ 7,802	-	\$ -	\$ 7,802
524.11 Northwest Cathedral Neighbourhood Park S.	2015	\$ 1,959	-	\$ 1,959	-	\$ 196	\$ 1,764	-	\$ -	\$ 1,764
524.12 John Daniels - Phase 2 (Fairly Park)	2015	\$ 8,669	-	\$ 8,669	-	\$ 867	\$ 7,802	-	\$ -	\$ 7,802
524.13 Swan Lake Park Block 31	2015	\$ 6,502	-	\$ 6,502	-	\$ 650	\$ 5,851	-	\$ -	\$ 5,851
524.14 Wismer McCowan Woodlot Park (4 parcels)	2015	\$ 8,669	-	\$ 8,669	-	\$ 867	\$ 7,802	-	\$ -	\$ 7,802
524.15 Northwest Cathedral Woodlot Park	2016	\$ 54,180	-	\$ 54,180	-	\$ 5,418	\$ 48,762	-	\$ -	\$ 48,762
524.16 Cornell Centre Maitamy Woodlot Park	2016	\$ 52,013	-	\$ 52,013	-	\$ 5,201	\$ 46,812	-	\$ -	\$ 46,812
524.17 Remnant Woodlot Parkette	2016	\$ 4,334	-	\$ 4,334	-	\$ 433	\$ 3,901	-	\$ -	\$ 3,901
524.18 North Donald Cousins Park	2016	\$ 6,502	-	\$ 6,502	-	\$ 650	\$ 5,851	-	\$ -	\$ 5,851
524.19 Jessamyn Settler's Park Landscaping	2016	\$ 15,170	-	\$ 15,170	-	\$ 1,517	\$ 13,653	-	\$ -	\$ 13,653
524.20 116 Clerk Ave. Woodlot Park	2018	\$ 8,669	-	\$ 8,669	-	\$ 867	\$ 7,802	-	\$ -	\$ 7,802
524.21 H & R Grand Cornell Southwest Woodlot N. P.	2021	\$ 52,013	-	\$ 52,013	-	\$ 5,201	\$ 46,812	-	\$ -	\$ 46,812
Subtotal Pathways Granular		\$ 446,412	-	\$ 446,412	-	\$ 44,641	\$ 401,771	-	\$ 189,355	\$ 212,415
5.25 Pathways Woodchip										
525.1 Angus Glen Community Centre Park	2013	\$ 1,170,288	-	\$ 1,170,288	-	\$ 117,029	\$ 1,053,259	-	\$ -	\$ -
Subtotal Pathways Woodchip		\$ 1,170,288	-	\$ 1,170,288	-	\$ 117,029	\$ 1,053,259	-	\$ -	\$ -

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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs Replacement & BTE Shares	10% Reduction	Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs 2013-2022	Post 2022
5.0 PARK DEVELOPMENT & FACILITIES										
5.26 Wooden Bridges										
5.26.1 Markham Sports Park	2013	\$ 428,000	\$ -	\$ 428,000	\$ -	\$ 42,800	\$ 385,200	\$ -	\$ 385,200	\$ -
5.26.2 John Daniels - Phase 2 (Fairy Park)	2015	\$ 16,050	\$ -	\$ 16,050	\$ -	\$ 1,605	\$ 14,445	\$ -	\$ -	\$ 14,445
5.26.3 North Donald Cousins Park	2016	\$ 26,750	\$ -	\$ 26,750	\$ -	\$ 2,675	\$ 24,075	\$ -	\$ -	\$ 24,075
Subtotal Wooden Bridges		\$ 470,800	\$ -	\$ 470,800	\$ -	\$ 47,080	\$ 423,720	\$ -	\$ 385,200	\$ 38,520
5.27 Steel Bridges										
5.27.1 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 1,806,400	\$ -	\$ 1,806,400	\$ -	\$ 180,640	\$ 1,625,760	\$ -	\$ 1,625,760	\$ -
5.27.2 Markham Sports Park	2013	\$ 903,200	\$ -	\$ 903,200	\$ -	\$ 90,320	\$ 812,880	\$ -	\$ 812,880	\$ -
5.27.3 Boxgrove Community Park Washroom Pavilion and Pedestrian Bridge	2014	\$ 1,016,100	\$ -	\$ 1,016,100	\$ -	\$ 101,610	\$ 914,490	\$ -	\$ 914,490	\$ -
5.27.4 Cornell Community Park	2014	\$ 564,500	\$ -	\$ 564,500	\$ -	\$ 56,450	\$ 508,050	\$ -	\$ 508,050	\$ -
5.27.5 Swan Lake Park Block 31	2015	\$ 451,600	\$ -	\$ 451,600	\$ -	\$ 45,160	\$ 406,440	\$ -	\$ -	\$ 406,440
5.27.6 Jessamyn Settler's Park Landscaping	2016	\$ 338,700	\$ -	\$ 338,700	\$ -	\$ 33,870	\$ 304,830	\$ -	\$ -	\$ 304,830
5.27.7 Wismer Alexander Lowrey Neighbourhood Park West	2016	\$ 677,400	\$ -	\$ 677,400	\$ -	\$ 67,740	\$ 609,660	\$ -	\$ -	\$ 609,660
5.27.8 H & R Grand Cornell South Valley Edge Park East and West Banks	2018	\$ 677,400	\$ -	\$ 677,400	\$ -	\$ 67,740	\$ 609,660	\$ -	\$ -	\$ 609,660
5.27.9 Times-Murphy Hull Valley Edge Park N.	2018	\$ 677,400	\$ -	\$ 677,400	\$ -	\$ 67,740	\$ 609,660	\$ -	\$ -	\$ 609,660
5.27.10 Angus Glen West Village Riverside Park W.	2019	\$ 564,500	\$ -	\$ 564,500	\$ -	\$ 56,450	\$ 508,050	\$ -	\$ -	\$ 508,050
5.27.11 Cornell Madison South Woodlot Park	2019	\$ 225,800	\$ -	\$ 225,800	\$ -	\$ 22,580	\$ 203,220	\$ -	\$ -	\$ 203,220
5.27.12 Cornell Madison South Woodlot Park	2019	\$ 225,800	\$ -	\$ 225,800	\$ -	\$ 22,580	\$ 203,220	\$ -	\$ -	\$ 203,220
5.27.13 Remington Markham Centre Central Park N. Phase 2	2019	\$ 564,500	\$ -	\$ 564,500	\$ -	\$ 56,450	\$ 508,050	\$ -	\$ -	\$ 508,050
5.27.14 Times-Murphy Hull Valley Edge Park S.	2019	\$ 790,300	\$ -	\$ 790,300	\$ -	\$ 79,030	\$ 711,270	\$ -	\$ -	\$ 711,270
5.27.15 H & R Grand Cornell Southwest Woodlot N. P.	2021	\$ 169,350	\$ -	\$ 169,350	\$ -	\$ 16,935	\$ 152,415	\$ -	\$ -	\$ 152,415
Subtotal Steel Bridges		\$ 9,652,950	\$ -	\$ 9,652,950	\$ -	\$ 965,295	\$ 8,687,655	\$ -	\$ 3,861,180	\$ 4,826,475
5.28 Paved Parking Lots										
5.28.1 Angus Glen Community Centre Park	2013	\$ 31,200	\$ -	\$ 31,200	\$ -	\$ 3,120	\$ 28,080	\$ -	\$ 28,080	\$ -
5.28.2 Boxgrove Community Park	2013	\$ 234,000	\$ -	\$ 234,000	\$ -	\$ 23,400	\$ 210,600	\$ -	\$ 210,600	\$ -
5.28.3 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 62,400	\$ -	\$ 62,400	\$ -	\$ 6,240	\$ 56,160	\$ -	\$ 56,160	\$ -
5.28.4 Markham Sports Park	2013	\$ 936,000	\$ -	\$ 936,000	\$ -	\$ 93,600	\$ 842,400	\$ -	\$ 842,400	\$ -
5.28.5 Wismer Community Park: Washroom Pavilion and Maintenance Station	2013	\$ 117,000	\$ -	\$ 117,000	\$ -	\$ 11,700	\$ 105,300	\$ -	\$ 105,300	\$ -
5.28.6 Wismer Community Park Phase 3 Castlemore Frontage	2013	\$ 468,000	\$ -	\$ 468,000	\$ -	\$ 46,800	\$ 421,200	\$ -	\$ 421,200	\$ -
5.28.7 Cornell Community Park	2014	\$ 312,000	\$ -	\$ 312,000	\$ -	\$ 31,200	\$ 280,800	\$ -	\$ 280,800	\$ -
5.28.8 Brother Andre Mt Joy Comm. Park Maintenance Station	2014	\$ 31,200	\$ -	\$ 31,200	\$ -	\$ 3,120	\$ 28,080	\$ -	\$ 28,080	\$ -
5.28.9 Leitchcroft Community Park Phase 2 (Western park addition)	2014	\$ 117,000	\$ -	\$ 117,000	\$ -	\$ 11,700	\$ 105,300	\$ -	\$ 105,300	\$ -
5.28.10 Angus Glen Com Cntr: Washroom Pavilion and Maintenance Station	2015	\$ 117,000	\$ -	\$ 117,000	\$ -	\$ 11,700	\$ 105,300	\$ -	\$ -	\$ 105,300
5.28.11 Cornell Community Park: Washroom Pavilion and Maintenance Station	2015	\$ 78,000	\$ -	\$ 78,000	\$ -	\$ 7,800	\$ 70,200	\$ -	\$ -	\$ 70,200
5.28.12 Cornell Secondary School Neighbourhood Park	2016	\$ 156,000	\$ -	\$ 156,000	\$ -	\$ 15,600	\$ 140,400	\$ -	\$ -	\$ 140,400
5.28.13 Victoria Square Community Park N. Phase	2018	\$ 390,000	\$ -	\$ 390,000	\$ -	\$ 39,000	\$ 351,000	\$ -	\$ -	\$ 351,000
5.28.14 Remington Markham Centre Central Park N.	2020	\$ 78,000	\$ -	\$ 78,000	\$ -	\$ 7,800	\$ 70,200	\$ -	\$ -	\$ 70,200
5.28.15 Fairtree East Village Remington Parkview Community Park E.	2021	\$ 156,000	\$ -	\$ 156,000	\$ -	\$ 15,600	\$ 140,400	\$ -	\$ -	\$ 140,400
5.28.16 Upper Cornell N.P.	2022	\$ 46,800	\$ -	\$ 46,800	\$ -	\$ 4,680	\$ 42,120	\$ -	\$ -	\$ 42,120
Subtotal Paved Parking Lots		\$ 3,330,600	\$ -	\$ 3,330,600	\$ -	\$ 333,060	\$ 2,997,540	\$ -	\$ 2,077,920	\$ 919,620



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 CITY OF MARKHAM
 DEVELOPMENT RELATED CAPITAL PROGRAM
 PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs	10% Reduction	Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs 2013-2022	Post 2022
5.0 PARK DEVELOPMENT & FACILITIES											
5.29 Parking Lot Lighting											
5.29.1 Angus Glen Community Centre Park	2013	\$ 16,052	-	\$ 16,052	-	-	\$ 1,605	\$ 14,447	-	\$ 14,447	-
5.29.2 Boxgrove Community Park	2013	\$ 80,260	-	\$ 80,260	-	-	\$ 8,026	\$ 72,234	-	\$ 72,234	-
5.29.3 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 48,156	-	\$ 48,156	-	-	\$ 4,816	\$ 43,340	-	\$ 43,340	-
5.29.4 South East Markham Community Centre Park	2013	\$ 80,260	-	\$ 80,260	-	-	\$ 8,026	\$ 72,234	-	\$ 72,234	-
5.29.5 Markham Sports Park	2013	\$ 256,832	-	\$ 256,832	-	-	\$ 25,683	\$ 231,149	-	\$ 231,149	-
5.29.6 Wismer Community Park: Washroom Pavilion and Maintenance Station	2013	\$ 32,104	-	\$ 32,104	-	-	\$ 3,210	\$ 28,894	-	\$ 28,894	-
5.29.7 Wismer Community Park Phase 3 Castlemore Frontage	2013	\$ 192,624	-	\$ 192,624	-	-	\$ 19,262	\$ 173,362	-	\$ 173,362	-
5.29.8 Cornell Community Park	2014	\$ 80,260	-	\$ 80,260	-	-	\$ 8,026	\$ 72,234	-	\$ 72,234	-
5.29.9 Brother Andre M.Joy Comm. Park Maintenance Station	2014	\$ 32,104	-	\$ 32,104	-	-	\$ 3,210	\$ 28,894	-	\$ 28,894	-
5.29.10 Leitchcroft Community Park Phase 2 (Western park addition)	2014	\$ 80,260	-	\$ 80,260	-	-	\$ 8,026	\$ 72,234	-	\$ 72,234	-
5.29.11 Angus Glen Com Ctr: Washroom Pavilion and Maintenance Station	2015	\$ 32,104	-	\$ 32,104	-	-	\$ 3,210	\$ 28,894	-	\$ 28,894	-
5.29.12 Cornell Community Park: Washroom Pavilion and Maintenance Station	2015	\$ 32,104	-	\$ 32,104	-	-	\$ 3,210	\$ 28,894	-	\$ 28,894	-
5.29.13 Cornell Secondary School Neighbourhood Park	2016	\$ 80,260	-	\$ 80,260	-	-	\$ 8,026	\$ 72,234	-	\$ 72,234	-
5.29.14 Victoria Square Community Park N. Phase	2018	\$ 64,208	-	\$ 64,208	-	-	\$ 6,421	\$ 57,787	-	\$ 57,787	-
5.29.15 Cornell Madison East Channel Park (North)	2018	\$ 8,026	-	\$ 8,026	-	-	\$ 803	\$ 7,223	-	\$ 7,223	-
5.29.16 Cornell Madison East Channel Park (South)	2018	\$ 8,026	-	\$ 8,026	-	-	\$ 803	\$ 7,223	-	\$ 7,223	-
5.29.17 Fairtree East Village Remington Parkview Community Park E.	2021	\$ 64,208	-	\$ 64,208	-	-	\$ 6,421	\$ 57,787	-	\$ 57,787	-
5.29.18 Upper Cornell N.P.	2022	\$ 32,104	-	\$ 32,104	-	-	\$ 3,210	\$ 28,894	-	\$ 28,894	-
Subtotal Parking Lot Lighting		\$ 1,219,952	-	\$ 1,219,952	-	-	\$ 121,985	\$ 1,097,967	-	\$ 809,021	\$ 288,936
5.30 Pathway Lighting											
5.30.1 Angus Glen Community Centre Park	2013	\$ 58,310	-	\$ 58,310	-	-	\$ 5,831	\$ 52,479	-	\$ 52,479	-
5.30.2 Angus Glen West Village Triangle Parkette	2013	\$ 69,972	-	\$ 69,972	-	-	\$ 6,997	\$ 62,975	-	\$ 62,975	-
5.30.3 Angus Glen West Village Valley Edge/Playground Park	2013	\$ 58,310	-	\$ 58,310	-	-	\$ 5,831	\$ 52,479	-	\$ 52,479	-
5.30.4 Angus Glen West Village Central Green	2013	\$ 116,620	-	\$ 116,620	-	-	\$ 11,662	\$ 104,958	-	\$ 104,958	-
5.30.5 Boxgrove Community Park	2013	\$ 174,930	-	\$ 174,930	-	-	\$ 17,493	\$ 157,437	-	\$ 157,437	-
5.30.6 Boxgrove Hill South East Parkette	2013	\$ 5,831	-	\$ 5,831	-	-	\$ 583	\$ 5,248	-	\$ 5,248	-
5.30.7 Southwest Cathedral Monarch Memorial Neighbourhood Park	2013	\$ 204,085	-	\$ 204,085	-	-	\$ 20,409	\$ 183,677	-	\$ 183,677	-
5.30.8 Southwest Cathedral Monarch Memorial Parkette	2013	\$ 5,831	-	\$ 5,831	-	-	\$ 583	\$ 5,248	-	\$ 5,248	-
5.30.9 Villages of Fairtree Community Park: Washroom Pavilion	2013	\$ 11,662	-	\$ 11,662	-	-	\$ 1,166	\$ 10,496	-	\$ 10,496	-
5.30.10 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 116,620	-	\$ 116,620	-	-	\$ 11,662	\$ 104,958	-	\$ 104,958	-
5.30.11 South East Markham Community Centre Park	2013	\$ 233,240	-	\$ 233,240	-	-	\$ 23,324	\$ 209,916	-	\$ 209,916	-
5.30.12 Tidel Markham Centre Linear Park E. (East of Circa - Phase 2 only)	2013	\$ 174,930	-	\$ 174,930	-	-	\$ 17,493	\$ 157,437	-	\$ 157,437	-
5.30.13 Remington Markham Centre Heritage House Parkette (2 parcels)	2013	\$ 87,465	-	\$ 87,465	-	-	\$ 8,747	\$ 78,719	-	\$ 78,719	-
5.30.14 Remington Markham Centre Civic Mall Phase 1	2013	\$ 174,930	-	\$ 174,930	-	-	\$ 17,493	\$ 157,437	-	\$ 157,437	-
5.30.15 Markham Sports Park	2013	\$ 932,960	-	\$ 932,960	-	-	\$ 93,296	\$ 839,664	-	\$ 839,664	-
5.30.16 Wismer Community Park: Washroom Pavilion and Maintenance Station	2013	\$ 69,972	-	\$ 69,972	-	-	\$ 6,997	\$ 62,975	-	\$ 62,975	-
5.30.17 Wismer Community Park Phase 3 Castlemore Frontage	2013	\$ 104,958	-	\$ 104,958	-	-	\$ 10,496	\$ 94,462	-	\$ 94,462	-
5.30.18 World on Yonge: Meadowdale Ave. Park	2013	\$ 58,310	-	\$ 58,310	-	-	\$ 5,831	\$ 52,479	-	\$ 52,479	-
5.30.19 World on Yonge: Yonge Parkette	2013	\$ 87,465	-	\$ 87,465	-	-	\$ 8,747	\$ 78,719	-	\$ 78,719	-
5.30.20 World on Yonge: Central Parkette	2013	\$ 87,465	-	\$ 87,465	-	-	\$ 8,747	\$ 78,719	-	\$ 78,719	-
5.30.21 Angus Glen West Village Parkette	2014	\$ 34,986	-	\$ 34,986	-	-	\$ 3,499	\$ 31,487	-	\$ 31,487	-
5.30.22 Boxgrove Community Park Washroom Pavilion and Pedestrian Bridge	2014	\$ 58,310	-	\$ 58,310	-	-	\$ 5,831	\$ 52,479	-	\$ 52,479	-
5.30.23 Bency Northeast McCowan Parkette	2014	\$ 87,465	-	\$ 87,465	-	-	\$ 8,747	\$ 78,719	-	\$ 78,719	-
5.30.24 Cornell Community Park	2014	\$ 349,860	-	\$ 349,860	-	-	\$ 34,986	\$ 314,874	-	\$ 314,874	-
5.30.25 Cornell Maitamy Cornell Park Ave. N.P.	2014	\$ 5,831	-	\$ 5,831	-	-	\$ 583	\$ 5,248	-	\$ 5,248	-
5.30.26 Brother Andre M.Joy Comm. Park Maintenance Station	2014	\$ 5,831	-	\$ 5,831	-	-	\$ 583	\$ 5,248	-	\$ 5,248	-
5.30.27 Greenborough Williamson NP	2014	\$ 5,831	-	\$ 5,831	-	-	\$ 583	\$ 5,248	-	\$ 5,248	-
5.30.28 Leitchcroft Community Park Phase 2 (Western park addition)	2014	\$ 5,831	-	\$ 5,831	-	-	\$ 583	\$ 5,248	-	\$ 5,248	-
5.30.29 Main St. Milliken NW Parkette (Cotton Lane)	2014	\$ 58,310	-	\$ 58,310	-	-	\$ 5,831	\$ 52,479	-	\$ 52,479	-



APPENDIX B.5
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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	DC Eligible Costs		Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs 2013-2022	Post 2022
						Ineligible Costs	10% Reduction				
5.30 Pathway Lighting											
5.30.30 Wismer Greenspire North Central Parkette	2014	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.31 Wismer Donald Minsay Parkette on Minsay (4 parcels)	2014	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.32 Wismer Hwy. #48 Hamersley Woodlot Park (3 parcels)	2014	\$ 58,310	-	\$ 58,310	-	\$ 58,310	\$ 5,831	\$ 52,479	\$ -	\$ 52,479	\$ -
5.30.33 Wismer Hwy. #48 Museum North	2014	\$ 58,310	-	\$ 58,310	-	\$ 58,310	\$ 5,831	\$ 52,479	\$ -	\$ 52,479	\$ -
5.30.34 Elgin St. Honsburger Park	2014	\$ 29,155	-	\$ 29,155	-	\$ 29,155	\$ 2,916	\$ 26,240	\$ -	\$ 26,240	\$ -
5.30.35 Angus Glen Com Cntr: Washroom Pavilion and Maintenance Station	2015	\$ 69,972	-	\$ 69,972	-	\$ 69,972	\$ 6,997	\$ 62,975	\$ -	\$ 62,975	\$ -
5.30.36 Swan Lake Park South Williamson Phase 6	2015	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.37 Berczy Beckett East Parkette	2015	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.38 Berczy Beckett Neighbourhood Park	2015	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.39 Berczy Beckett East Parkette	2015	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.40 Berczy Beckett NW Parkette	2015	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.41 Northwest Cathedral Neighbourhood Park S.	2015	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.42 Northwest Cathedral Neighbourhood Park N.	2015	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.43 Cornell Madison Centre Square	2015	\$ 58,310	-	\$ 58,310	-	\$ 58,310	\$ 5,831	\$ 52,479	\$ -	\$ 52,479	\$ -
5.30.44 Cornell Madison Urban Parkette	2015	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.45 John Daniels -Phase 2 (Fairy Park)	2015	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.46 Greensborough Alfred Patterson Neighbourhood Park	2015	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.47 Swan Lake Park Block 31	2015	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.48 Liberty Markham Centre Oak Park Warden W.	2015	\$ 116,620	-	\$ 116,620	-	\$ 116,620	\$ 11,662	\$ 104,958	\$ -	\$ 104,958	\$ -
5.30.49 Times-Murphy Hull Hwy. #7 Window Park	2015	\$ 58,310	-	\$ 58,310	-	\$ 58,310	\$ 5,831	\$ 52,479	\$ -	\$ 52,479	\$ -
5.30.50 Box Grove Rennie Ave NBHD Park	2016	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.51 East Cathedral Park adjacent Woodbine	2016	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.52 Cornell Secondary School Neighbourhood Park	2016	\$ 116,620	-	\$ 116,620	-	\$ 116,620	\$ 11,662	\$ 104,958	\$ -	\$ 104,958	\$ -
5.30.53 Cornell Centre Maitamy Woodlot Park	2016	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.54 North Donald Cousins Park	2016	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.55 Remington Markham Centre Active Park East	2016	\$ 174,930	-	\$ 174,930	-	\$ 174,930	\$ 17,493	\$ 157,437	\$ -	\$ 157,437	\$ -
5.30.56 Remington Markham Centre East Central Parkette	2016	\$ 116,620	-	\$ 116,620	-	\$ 116,620	\$ 11,662	\$ 104,958	\$ -	\$ 104,958	\$ -
5.30.57 South Unionville Community Park W.	2016	\$ 87,465	-	\$ 87,465	-	\$ 87,465	\$ 8,747	\$ 78,719	\$ -	\$ 78,719	\$ -
5.30.58 South Unionville West Greenburg Parkette	2016	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.59 Wismer Alexander Lowrey Neighbourhood Park West	2016	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.60 Cornell Centre South NBHD Park (HR)	2017	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.61 Liberty Markham Centre Oak Park Warden E.	2017	\$ 87,465	-	\$ 87,465	-	\$ 87,465	\$ 8,747	\$ 78,719	\$ -	\$ 78,719	\$ -
5.30.62 Remington Markham Centre Central Park S.	2017	\$ 174,930	-	\$ 174,930	-	\$ 174,930	\$ 17,493	\$ 157,437	\$ -	\$ 157,437	\$ -
5.30.63 East Precinct Markham Centre N. Parkette	2017	\$ 58,310	-	\$ 58,310	-	\$ 58,310	\$ 5,831	\$ 52,479	\$ -	\$ 52,479	\$ -
5.30.64 Remington Markham Centre N.E. Valley Edge Parkette	2017	\$ 58,310	-	\$ 58,310	-	\$ 58,310	\$ 5,831	\$ 52,479	\$ -	\$ 52,479	\$ -
5.30.65 Main Street Milliken NW Parkette	2017	\$ 58,310	-	\$ 58,310	-	\$ 58,310	\$ 5,831	\$ 52,479	\$ -	\$ 52,479	\$ -
5.30.66 Victoria Square Community Park N. Phase	2018	\$ 349,860	-	\$ 349,860	-	\$ 349,860	\$ 34,986	\$ 314,874	\$ -	\$ 314,874	\$ -
5.30.67 H & R Grand Cornell South Valley Edge Park East and West Banks	2018	\$ 186,592	-	\$ 186,592	-	\$ 186,592	\$ 18,659	\$ 167,933	\$ -	\$ 167,933	\$ -
5.30.68 Times-Murphy Hull Valley Edge Park N.	2018	\$ 233,240	-	\$ 233,240	-	\$ 233,240	\$ 23,324	\$ 209,916	\$ -	\$ 209,916	\$ -
5.30.69 OPA 15 Markham Centre Neighbourhood Park	2018	\$ 116,620	-	\$ 116,620	-	\$ 116,620	\$ 11,662	\$ 104,958	\$ -	\$ 104,958	\$ -
5.30.70 OPA 15 Markham Centre Village Parkway Town Square	2018	\$ 58,310	-	\$ 58,310	-	\$ 58,310	\$ 5,831	\$ 52,479	\$ -	\$ 52,479	\$ -
5.30.71 Heritage Park adjacent Aryeh Strata Park	2018	\$ 87,465	-	\$ 87,465	-	\$ 87,465	\$ 8,747	\$ 78,719	\$ -	\$ 78,719	\$ -
5.30.72 Amina Court to McCowan Trail Park	2018	\$ 5,831	-	\$ 5,831	-	\$ 5,831	\$ 583	\$ 5,248	\$ -	\$ 5,248	\$ -
5.30.73 Yonge/John St. Parkette	2018	\$ 69,972	-	\$ 69,972	-	\$ 69,972	\$ 6,997	\$ 62,975	\$ -	\$ 62,975	\$ -

CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs		Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs 2013-2022	Post 2022
						10% Reduction					
5.0 PARK DEVELOPMENT & FACILITIES											
5.30 Pathway Lighting											
5.30.74 Yonge/Colbourne St. Parkette	2018	\$ 69,972	\$ -	\$ 69,972	\$ -	\$ -	\$ 6,997	\$ 62,975	\$ -	\$ -	\$ 62,975
5.30.75 Angus Glen West Village Riverside Park W.	2019	\$ 69,972	\$ -	\$ 69,972	\$ -	\$ -	\$ 6,997	\$ 62,975	\$ -	\$ -	\$ 62,975
5.30.76 Conell Madison South Woodlot Park	2019	\$ 69,972	\$ -	\$ 69,972	\$ -	\$ -	\$ 6,997	\$ 62,975	\$ -	\$ -	\$ 62,975
5.30.77 Conell Madison South Woodlot Park	2019	\$ 69,972	\$ -	\$ 69,972	\$ -	\$ -	\$ 6,997	\$ 62,975	\$ -	\$ -	\$ 62,975
5.30.78 Remington Markham Centre Central Park N. Phase 2	2019	\$ 291,550	\$ -	\$ 291,550	\$ -	\$ -	\$ 29,155	\$ 262,395	\$ -	\$ -	\$ 262,395
5.30.79 Times-Murphy Hill Valley Edge Park S.	2019	\$ 291,550	\$ -	\$ 291,550	\$ -	\$ -	\$ 29,155	\$ 262,395	\$ -	\$ -	\$ 262,395
5.30.80 Times-Murphy Hill Valley Edge Park E.	2019	\$ 116,620	\$ -	\$ 116,620	\$ -	\$ -	\$ 11,662	\$ 104,958	\$ -	\$ -	\$ 104,958
5.30.81 OPA 15 Markham Centre Chiment Court Park	2019	\$ 151,606	\$ -	\$ 151,606	\$ -	\$ -	\$ 15,161	\$ 136,445	\$ -	\$ -	\$ 136,445
5.30.82 Wismer Hwy. #48 Anderson Ave. Park	2019	\$ 93,296	\$ -	\$ 93,296	\$ -	\$ -	\$ 9,330	\$ 83,966	\$ -	\$ -	\$ 83,966
5.30.83 Dudley Park	2019	\$ 87,465	\$ -	\$ 87,465	\$ -	\$ -	\$ 8,747	\$ 78,719	\$ -	\$ -	\$ 78,719
5.30.84 Conell Shroff Hwy. #7 and 9th Line N.P.	2020	\$ 69,972	\$ -	\$ 69,972	\$ -	\$ -	\$ 6,997	\$ 62,975	\$ -	\$ -	\$ 62,975
5.30.85 Conell SW park	2020	\$ 69,972	\$ -	\$ 69,972	\$ -	\$ -	\$ 6,997	\$ 62,975	\$ -	\$ -	\$ 62,975
5.30.86 John St. Community Park (Southeast of Cottonwood Cr.)	2020	\$ 11,662	\$ -	\$ 11,662	\$ -	\$ -	\$ 1,166	\$ 10,496	\$ -	\$ -	\$ 10,496
5.30.87 Tridel Markham Centre Linear Park W. (West of Circa Dr.)	2020	\$ 87,465	\$ -	\$ 87,465	\$ -	\$ -	\$ 8,747	\$ 78,719	\$ -	\$ -	\$ 78,719
5.30.88 Remington Markham Centre East Valley Edge Linear Park	2020	\$ 87,465	\$ -	\$ 87,465	\$ -	\$ -	\$ 8,747	\$ 78,719	\$ -	\$ -	\$ 78,719
5.30.89 East Precinct Markham Centre S. Parkette	2020	\$ 34,986	\$ -	\$ 34,986	\$ -	\$ -	\$ 3,499	\$ 31,487	\$ -	\$ -	\$ 31,487
5.30.90 Remington Markham Centre Central Park N.	2020	\$ 58,310	\$ -	\$ 58,310	\$ -	\$ -	\$ 5,831	\$ 52,479	\$ -	\$ -	\$ 52,479
5.30.91 Main Street Milliken Armadale N.P.	2020	\$ 58,310	\$ -	\$ 58,310	\$ -	\$ -	\$ 5,831	\$ 52,479	\$ -	\$ -	\$ 52,479
5.30.92 Main Street Milliken SE Parkette	2020	\$ 58,310	\$ -	\$ 58,310	\$ -	\$ -	\$ 5,831	\$ 52,479	\$ -	\$ -	\$ 52,479
5.30.93 Main Street Milliken SW Parkette	2020	\$ 58,310	\$ -	\$ 58,310	\$ -	\$ -	\$ 5,831	\$ 52,479	\$ -	\$ -	\$ 52,479
5.30.94 Yonge/Elgin St. Parkette	2020	\$ 34,986	\$ -	\$ 34,986	\$ -	\$ -	\$ 3,499	\$ 31,487	\$ -	\$ -	\$ 31,487
5.30.95 Fairtree East Village Remington Parkview Community Park E.	2021	\$ 349,860	\$ -	\$ 349,860	\$ -	\$ -	\$ 34,986	\$ 314,874	\$ -	\$ -	\$ 314,874
5.30.96 Don Mills/Steeles Markhamgate Park	2021	\$ 116,620	\$ -	\$ 116,620	\$ -	\$ -	\$ 11,662	\$ 104,958	\$ -	\$ -	\$ 104,958
5.30.97 Times-Murphy Hill Valley Edge Park N.W.	2021	\$ 87,465	\$ -	\$ 87,465	\$ -	\$ -	\$ 8,747	\$ 78,719	\$ -	\$ -	\$ 78,719
5.30.98 Main St. Markham Town Square	2021	\$ 87,465	\$ -	\$ 87,465	\$ -	\$ -	\$ 8,747	\$ 78,719	\$ -	\$ -	\$ 78,719
5.30.99 Wismer Hwy. #48 Major Macdonzie Park	2021	\$ 145,775	\$ -	\$ 145,775	\$ -	\$ -	\$ 14,578	\$ 131,198	\$ -	\$ -	\$ 131,198
5.30.100 Upper Cornell N.P.	2022	\$ 69,972	\$ -	\$ 69,972	\$ -	\$ -	\$ 6,997	\$ 62,975	\$ -	\$ -	\$ 62,975
5.30.101 Times-Murphy Hill Warden & Hwy. #7 Oval Parkette	2022	\$ 87,465	\$ -	\$ 87,465	\$ -	\$ -	\$ 8,747	\$ 78,719	\$ -	\$ -	\$ 78,719
5.30.102 Yonge/Steeles Clark Ave. Parkette	2022	\$ 34,986	\$ -	\$ 34,986	\$ -	\$ -	\$ 3,499	\$ 31,487	\$ -	\$ -	\$ 31,487
5.30.103 Yonge/Steeles Morgan Ave. Parkette	2022	\$ 163,288	\$ -	\$ 163,288	\$ -	\$ -	\$ 16,327	\$ 146,941	\$ -	\$ -	\$ 146,941
5.30.104 Yonge/Steeles Glen Cameron Rd. Parkette	2022	\$ 34,986	\$ -	\$ 34,986	\$ -	\$ -	\$ 3,499	\$ 31,487	\$ -	\$ -	\$ 31,487
5.30.105 Yonge/Steeles Grandview Ave. Parkette	2022	\$ 34,986	\$ -	\$ 34,986	\$ -	\$ -	\$ 3,499	\$ 31,487	\$ -	\$ -	\$ 31,487
5.30.106 Yonge/Steeles Woodward Ave. Parkette	2022	\$ 34,986	\$ -	\$ 34,986	\$ -	\$ -	\$ 3,499	\$ 31,487	\$ -	\$ -	\$ 31,487
5.30.107 Yonge/Steeles Highland Park Ave. Parkette N.	2022	\$ 116,620	\$ -	\$ 116,620	\$ -	\$ -	\$ 11,662	\$ 104,958	\$ -	\$ -	\$ 104,958
5.30.108 Yonge/Steeles Highland Park Ave. Parkette S.	2022	\$ 34,986	\$ -	\$ 34,986	\$ -	\$ -	\$ 3,499	\$ 31,487	\$ -	\$ -	\$ 31,487
Subtotal Pathway Lighting		\$ 9,393,741	\$ -	\$ 9,393,741	\$ -	\$ -	\$ 939,374	\$ 8,454,367	\$ -	\$ 3,243,202	\$ 5,211,165
5.31 Irrigation - Sports Pitches											
5.31.1 Angus Glen Community Centre Park	2013	\$ 37,108	\$ -	\$ 37,108	\$ -	\$ -	\$ 3,711	\$ 33,397	\$ -	\$ 33,397	\$ -
5.31.2 Angus Glen West Village Valley Edge Playground Park	2013	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ -
5.31.3 Boygrove Community Park	2013	\$ 92,770	\$ -	\$ 92,770	\$ -	\$ -	\$ 9,277	\$ 83,493	\$ -	\$ 83,493	\$ -
5.31.4 Southwest Cathedral Monarch Memorial Neighbourhood Park	2013	\$ 37,108	\$ -	\$ 37,108	\$ -	\$ -	\$ 3,711	\$ 33,397	\$ -	\$ 33,397	\$ -
5.31.5 Southwest Cathedral Monarch Memorial Parkette	2013	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ -
5.31.6 South East Markham Community Centre Park	2013	\$ 37,108	\$ -	\$ 37,108	\$ -	\$ -	\$ 3,711	\$ 33,397	\$ -	\$ 33,397	\$ -
5.31.7 Leitchcroft (Times) Community Park	2013	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ -
5.31.8 South Unionville Ray Street Parkette E.	2013	\$ 37,108	\$ -	\$ 37,108	\$ -	\$ -	\$ 3,711	\$ 33,397	\$ -	\$ 33,397	\$ -

APPENDIX B.5
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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs 10% Reduction	Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs 2013-2022	Post 2022	
5.0 PARK DEVELOPMENT & FACILITIES											
5.31 Irrigation - Sports Pitches											
5.31.9 South Unionville Ray Street Parkette W.	2013	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ -	
5.31.10 Markham Sports Park	2013	\$ 445,296	\$ -	\$ 445,296	\$ -	\$ 44,530	\$ 400,766	\$ -	\$ 400,766	\$ -	
5.31.11 Cornell Community Park	2014	\$ 129,878	\$ -	\$ 129,878	\$ -	\$ 12,988	\$ 116,890	\$ -	\$ 116,890	\$ -	
5.31.12 Greensborough Williamson NP	2014	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ -	
5.31.13 Wismer Donald Mingay Parkette on Mingay (4 parcels)	2014	\$ 37,108	\$ -	\$ 37,108	\$ -	\$ 3,711	\$ 33,397	\$ -	\$ 33,397	\$ -	
5.31.14 Wismer Hwy. #48 Hamersley Woodlot Park (3 parcels)	2014	\$ 37,108	\$ -	\$ 37,108	\$ -	\$ 3,711	\$ 33,397	\$ -	\$ 33,397	\$ -	
5.31.15 Wismer Hwy. #48 Museum North	2014	\$ 74,216	\$ -	\$ 74,216	\$ -	\$ 7,422	\$ 66,794	\$ -	\$ 66,794	\$ -	
5.31.16 Elgin St. Honsburger Park	2014	\$ 74,216	\$ -	\$ 74,216	\$ -	\$ 7,422	\$ 66,794	\$ -	\$ 66,794	\$ -	
5.31.17 Berczy Beckett Neighbourhood Park	2015	\$ 37,108	\$ -	\$ 37,108	\$ -	\$ 3,711	\$ 33,397	\$ -	\$ 33,397	\$ 33,397	
5.31.18 Northwest Cathedral Neighbourhood Park S.	2015	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.19 Northwest Cathedral Neighbourhood Park N.	2015	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.20 Swan Lake Park Block 31	2015	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.21 Wismer McCowan Woodlot Park (4 parcels)	2015	\$ 37,108	\$ -	\$ 37,108	\$ -	\$ 3,711	\$ 33,397	\$ -	\$ 33,397	\$ 33,397	
5.31.22 Box Grove Rennie Ave NBHD Park	2016	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.23 Cornell Secondary School Neighbourhood Park	2016	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.24 Cornell Centre Metlany Woodlot Park	2016	\$ 37,108	\$ -	\$ 37,108	\$ -	\$ 3,711	\$ 33,397	\$ -	\$ 33,397	\$ 33,397	
5.31.25 Remington Markham Centre East Central Parkette	2016	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.26 Remington Markham Centre East Central Parkette	2016	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.27 South Unionville Community Park W.	2016	\$ 37,108	\$ -	\$ 37,108	\$ -	\$ 3,711	\$ 33,397	\$ -	\$ 33,397	\$ 33,397	
5.31.28 Wismer Alexander Lowrey Neighbourhood Park West	2016	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.29 Wismer Alexander Lowrey Neighbourhood Park East	2016	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.30 Cornell Centre Metlany N.P.	2017	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.31 Victoria Square Community Park N. Phase	2018	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.32 Cornell Madison East Channel Park (North)	2018	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.33 Cornell Madison East Channel Park (South)	2018	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.34 Times-Murphy Hill Valley Edge Park N.	2018	\$ 37,108	\$ -	\$ 37,108	\$ -	\$ 3,711	\$ 33,397	\$ -	\$ 33,397	\$ 33,397	
5.31.35 OPA 15 Markham Centre Neighbourhood Park	2018	\$ 74,216	\$ -	\$ 74,216	\$ -	\$ 7,422	\$ 66,794	\$ -	\$ 66,794	\$ 66,794	
5.31.36 Heritage Park adjacent Ayrish Strata Park	2018	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.37 Cornell Madison South Woodlot Park	2019	\$ 37,108	\$ -	\$ 37,108	\$ -	\$ 3,711	\$ 33,397	\$ -	\$ 33,397	\$ 33,397	
5.31.38 Cornell Madison South Woodlot Park	2019	\$ 37,108	\$ -	\$ 37,108	\$ -	\$ 3,711	\$ 33,397	\$ -	\$ 33,397	\$ 33,397	
5.31.39 Fairtree East Village Forest Bay Neighbourhood Park	2019	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.40 Greensborough North Parkway N.P. West	2019	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.41 Greensborough North Parkway N.P. East	2019	\$ 37,108	\$ -	\$ 37,108	\$ -	\$ 3,711	\$ 33,397	\$ -	\$ 33,397	\$ 33,397	
5.31.42 OPA 15 Markham Centre Chiment Court Park	2019	\$ 55,662	\$ -	\$ 55,662	\$ -	\$ 5,566	\$ 50,096	\$ -	\$ 50,096	\$ 50,096	
5.31.43 Woodbine Bypass Park	2020	\$ 74,216	\$ -	\$ 74,216	\$ -	\$ 7,422	\$ 66,794	\$ -	\$ 66,794	\$ 66,794	
5.31.44 Cornell Shoff Hwy. #7 and 9th Line N.P.	2020	\$ 37,108	\$ -	\$ 37,108	\$ -	\$ 3,711	\$ 33,397	\$ -	\$ 33,397	\$ 33,397	
5.31.45 John St Community Park (South/east of Cottonwood Cr)	2020	\$ 148,432	\$ -	\$ 148,432	\$ -	\$ 14,843	\$ 133,589	\$ -	\$ 133,589	\$ 133,589	
5.31.46 Remington Markham Centre East Valley Edge Linear Park	2020	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.47 Main Street Milliken Armadale N.P.	2020	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.48 Fairtree East Village Forest Bay Community Park W. (Pair w/FAIR-7)	2021	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.49 Fairtree East Village Remington Parkview Community Park E.	2021	\$ 74,216	\$ -	\$ 74,216	\$ -	\$ 7,422	\$ 66,794	\$ -	\$ 66,794	\$ 66,794	
5.31.50 Fairtree East Village Remington Parkview Neighbourhood Park	2021	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.51 Times-Murphy Hill Valley Edge Park N.W.	2021	\$ 37,108	\$ -	\$ 37,108	\$ -	\$ 3,711	\$ 33,397	\$ -	\$ 33,397	\$ 33,397	
5.31.52 Wismer Hwy. #48 Major Mackenzie Park	2021	\$ 18,554	\$ -	\$ 18,554	\$ -	\$ 1,855	\$ 16,699	\$ -	\$ 16,699	\$ 16,699	
5.31.53 Upper Cornell N.P.	2022	\$ 55,662	\$ -	\$ 55,662	\$ -	\$ 5,566	\$ 50,096	\$ -	\$ 50,096	\$ 50,096	
Subtotal Irrigation - Sports Pitches		\$ 2,374,912	\$ -	\$ 2,374,912	\$ -	\$ 237,491	\$ 2,137,421	\$ -	\$ 1,018,615	\$ 1,118,806	



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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		Post 2022
					Replacement & BTE Shares	10% Reduction		Available DC Reserves	2013-2022	
5.0 PARK DEVELOPMENT & FACILITIES										
5.32 Landscape Irrigation Large Parks										
5.32.1 Angus Glen Community Centre Park	2013	\$ 43,344 \$	- \$	43,344 \$	- \$	4,334 \$	39,010 \$	- \$	39,010 \$	- \$
5.32.2 Angus Glen West Village Triangle Parkette	2013	\$ 14,448 \$	- \$	14,448 \$	- \$	1,445 \$	13,003 \$	- \$	13,003 \$	- \$
5.32.3 Angus Glen West Village Valley Edge Playground Park	2013	\$ 7,224 \$	- \$	7,224 \$	- \$	722 \$	6,502 \$	- \$	6,502 \$	- \$
5.32.4 Angus Glen West Village Central Green	2013	\$ 25,284 \$	- \$	25,284 \$	- \$	2,528 \$	22,756 \$	- \$	22,756 \$	- \$
5.32.5 Boxgrove Community Park	2013	\$ 7,224 \$	- \$	7,224 \$	- \$	722 \$	6,502 \$	- \$	6,502 \$	- \$
5.32.6 Boxgrove Hill South East Parkette	2013	\$ 7,224 \$	- \$	7,224 \$	- \$	722 \$	6,502 \$	- \$	6,502 \$	- \$
5.32.7 Boxgrove Southeast Heritage House Parkette	2013	\$ 7,224 \$	- \$	7,224 \$	- \$	722 \$	6,502 \$	- \$	6,502 \$	- \$
5.32.8 Victoria Square Community Park S. Phase Playground and Waterplay	2013	\$ 7,224 \$	- \$	7,224 \$	- \$	722 \$	6,502 \$	- \$	6,502 \$	- \$
5.32.9 Southwest Cathedral Monarch Memorial Neighbourhood Park	2013	\$ 43,344 \$	- \$	43,344 \$	- \$	4,334 \$	39,010 \$	- \$	39,010 \$	- \$
5.32.10 Southwest Cathedral Monarch Memorial Parkette	2013	\$ 21,672 \$	- \$	21,672 \$	- \$	2,167 \$	19,505 \$	- \$	19,505 \$	- \$
5.32.11 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 7,224 \$	- \$	7,224 \$	- \$	722 \$	6,502 \$	- \$	6,502 \$	- \$
5.32.12 South East Markham Community Centre Park	2013	\$ 36,120 \$	- \$	36,120 \$	- \$	3,612 \$	32,508 \$	- \$	32,508 \$	- \$
5.32.13 Leitchcroft (Times) Community Park	2013	\$ 18,060 \$	- \$	18,060 \$	- \$	1,806 \$	16,254 \$	- \$	16,254 \$	- \$
5.32.14 South Unionville Ray Street Parkette E.	2013	\$ 10,836 \$	- \$	10,836 \$	- \$	1,084 \$	9,752 \$	- \$	9,752 \$	- \$
5.32.15 Tridel Markham Centre Linear Park E. (East of Circa - Phase 2 only)	2013	\$ 9,030 \$	- \$	9,030 \$	- \$	903 \$	8,127 \$	- \$	8,127 \$	- \$
5.32.16 Remington Markham Centre Heritage House Parkette (2 parcels)	2013	\$ 7,224 \$	- \$	7,224 \$	- \$	722 \$	6,502 \$	- \$	6,502 \$	- \$
5.32.17 Markham Sports Park	2013	\$ 72,240 \$	- \$	72,240 \$	- \$	7,224 \$	65,016 \$	- \$	65,016 \$	- \$
5.32.18 Wismer Community Park Phase 3 Castlemore Frontage	2013	\$ 18,060 \$	- \$	18,060 \$	- \$	1,806 \$	16,254 \$	- \$	16,254 \$	- \$
5.32.19 World on Yonge: Meadowdale Ave. Park	2013	\$ 1,806 \$	- \$	1,806 \$	- \$	181 \$	1,625 \$	- \$	1,625 \$	- \$
5.32.20 World on Yonge: Yonge Parkette	2013	\$ 361 \$	- \$	361 \$	- \$	36 \$	325 \$	- \$	325 \$	- \$
5.32.21 World on Yonge: Central Parkette	2013	\$ 361 \$	- \$	361 \$	- \$	36 \$	325 \$	- \$	325 \$	- \$
5.32.22 Angus Glen West Village Parkette	2014	\$ 5,418 \$	- \$	5,418 \$	- \$	542 \$	4,876 \$	- \$	4,876 \$	- \$
5.32.23 Cornell Community Park	2014	\$ 72,240 \$	- \$	72,240 \$	- \$	7,224 \$	65,016 \$	- \$	65,016 \$	- \$
5.32.24 Main St Milliken NW Parkette (Cotton Lane)	2014	\$ 3,612 \$	- \$	3,612 \$	- \$	361 \$	3,251 \$	- \$	3,251 \$	- \$
5.32.25 Wismer Greenspire North Central Parkette	2014	\$ 21,672 \$	- \$	21,672 \$	- \$	2,167 \$	19,505 \$	- \$	19,505 \$	- \$
5.32.26 Wismer Donald Mingay Parkette on Mingay (4 parcels)	2014	\$ 3,612 \$	- \$	3,612 \$	- \$	361 \$	3,251 \$	- \$	3,251 \$	- \$
5.32.27 Wismer Hwy. #48 Museum North	2014	\$ 14,448 \$	- \$	14,448 \$	- \$	1,445 \$	13,003 \$	- \$	13,003 \$	- \$
5.32.28 Elgin St. Honsburger Park	2014	\$ 7,224 \$	- \$	7,224 \$	- \$	722 \$	6,502 \$	- \$	6,502 \$	- \$
5.32.29 Berczy Beckett East Parkette	2015	\$ 5,418 \$	- \$	5,418 \$	- \$	542 \$	4,876 \$	- \$	4,876 \$	- \$
5.32.30 Berczy Beckett Neighbourhood Park	2015	\$ 18,060 \$	- \$	18,060 \$	- \$	1,806 \$	16,254 \$	- \$	16,254 \$	- \$
5.32.31 Berczy Beckett East Parkette	2015	\$ 5,418 \$	- \$	5,418 \$	- \$	542 \$	4,876 \$	- \$	4,876 \$	- \$
5.32.32 Berczy Beckett NW Parkette	2015	\$ 21,672 \$	- \$	21,672 \$	- \$	2,167 \$	19,505 \$	- \$	19,505 \$	- \$
5.32.33 Berczy Beckett NW Parkette	2015	\$ 5,418 \$	- \$	5,418 \$	- \$	542 \$	4,876 \$	- \$	4,876 \$	- \$
5.32.34 Northwest Cathedral Neighbourhood Park N.	2015	\$ 7,224 \$	- \$	7,224 \$	- \$	722 \$	6,502 \$	- \$	6,502 \$	- \$
5.32.35 Cornell Community Centre Square	2015	\$ 3,612 \$	- \$	3,612 \$	- \$	361 \$	3,251 \$	- \$	3,251 \$	- \$
5.32.36 Cornell Mattamy East Church Street Parkette	2015	\$ 3,612 \$	- \$	3,612 \$	- \$	361 \$	3,251 \$	- \$	3,251 \$	- \$
5.32.37 Cornell Madison Rouge Blvd. Park	2015	\$ 10,836 \$	- \$	10,836 \$	- \$	1,084 \$	9,752 \$	- \$	9,752 \$	- \$
5.32.38 Cornell Madison Rouge Blvd. Park S.	2015	\$ 3,612 \$	- \$	3,612 \$	- \$	361 \$	3,251 \$	- \$	3,251 \$	- \$
5.32.39 Liberty Markham Centre Oak Park Warden W.	2015	\$ 14,448 \$	- \$	14,448 \$	- \$	1,445 \$	13,003 \$	- \$	13,003 \$	- \$
5.32.40 Wismer McCowan Woodlot Park (4 parcels)	2015	\$ 16,254 \$	- \$	16,254 \$	- \$	1,625 \$	14,629 \$	- \$	14,629 \$	- \$
5.32.41 Box Grove Rennie Ave NBHD Park	2016	\$ 21,672 \$	- \$	21,672 \$	- \$	2,167 \$	19,505 \$	- \$	19,505 \$	- \$
5.32.42 Cornell Secondary School Neighbourhood Park	2016	\$ 7,224 \$	- \$	7,224 \$	- \$	722 \$	6,502 \$	- \$	6,502 \$	- \$
5.32.43 Cornell Centre Mattamy Woodlot Park	2016	\$ 9,030 \$	- \$	9,030 \$	- \$	903 \$	8,127 \$	- \$	8,127 \$	- \$
5.32.44 North Donald Cousins Park	2016	\$ 43,344 \$	- \$	43,344 \$	- \$	4,334 \$	39,010 \$	- \$	39,010 \$	- \$
5.32.45 Jessamyn Settler's Park Landscaping	2016	\$ 7,224 \$	- \$	7,224 \$	- \$	722 \$	6,502 \$	- \$	6,502 \$	- \$



APPENDIX B.5
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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		Post 2022
					Replacement & BTE Shares	10% Reduction		Available DC Reserves	2013-2022	
5.0 PARK DEVELOPMENT & FACILITIES										
5.32 Landscape Irrigation Large Parks										
532.46 Remington Markham Centre Active Park East	2016	\$ 18,060 \$	-	\$ 18,060 \$	-	\$ 1,806 \$	16,254 \$	-	\$ -	\$ 16,254
532.47 Remington Markham Centre East Central Parkette	2016	\$ 18,060 \$	-	\$ 18,060 \$	-	\$ 1,806 \$	16,254 \$	-	\$ -	\$ 16,254
532.48 South Unionville Community Park W.	2016	\$ 14,448 \$	-	\$ 14,448 \$	-	\$ 1,445 \$	13,003 \$	-	\$ -	\$ 13,003
532.49 Liberty Markham Centre Oak Park Warden E.	2017	\$ 7,224 \$	-	\$ 7,224 \$	-	\$ 722 \$	6,502 \$	-	\$ -	\$ 6,502
532.50 Remington Markham Centre Central Park S.	2017	\$ 21,672 \$	-	\$ 21,672 \$	-	\$ 2,167 \$	19,505 \$	-	\$ -	\$ 19,505
532.51 East Precinct Markham Centre N. Parkette	2017	\$ 7,224 \$	-	\$ 7,224 \$	-	\$ 722 \$	6,502 \$	-	\$ -	\$ 6,502
532.52 Remington Markham Centre N.E. Valley Edge Parkette	2017	\$ 3,612 \$	-	\$ 3,612 \$	-	\$ 361 \$	3,251 \$	-	\$ -	\$ 3,251
532.53 Main Street Milliken NW Parkette	2017	\$ 3,612 \$	-	\$ 3,612 \$	-	\$ 361 \$	3,251 \$	-	\$ -	\$ 3,251
532.54 Victoria Square Community Park N. Phase	2018	\$ 14,448 \$	-	\$ 14,448 \$	-	\$ 1,445 \$	13,003 \$	-	\$ -	\$ 13,003
532.55 Cornell Madison East Channel Park (North)	2018	\$ 10,836 \$	-	\$ 10,836 \$	-	\$ 1,084 \$	9,752 \$	-	\$ -	\$ 9,752
532.56 Cornell Madison East Channel Park (South)	2018	\$ 10,836 \$	-	\$ 10,836 \$	-	\$ 1,084 \$	9,752 \$	-	\$ -	\$ 9,752
532.57 Times-Murphy Hill Valley Edge Park N.	2018	\$ 72,240 \$	-	\$ 72,240 \$	-	\$ 7,224 \$	65,016 \$	-	\$ -	\$ 65,016
532.58 OPA 15 Markham Centre Neighbourhood Park	2018	\$ 43,344 \$	-	\$ 43,344 \$	-	\$ 4,334 \$	39,010 \$	-	\$ -	\$ 39,010
532.59 OPA 15 Markham Centre Village Parkway Town Square	2018	\$ 7,224 \$	-	\$ 7,224 \$	-	\$ 722 \$	6,502 \$	-	\$ -	\$ 6,502
532.60 Heritage Park adjacent Aryeh Strata Park	2018	\$ 10,836 \$	-	\$ 10,836 \$	-	\$ 1,084 \$	9,752 \$	-	\$ -	\$ 9,752
532.61 Angus Glen West Village Riverside Park W.	2019	\$ 14,448 \$	-	\$ 14,448 \$	-	\$ 1,445 \$	13,003 \$	-	\$ -	\$ 13,003
532.62 Cornell Madison South Woodlot Park	2019	\$ 54,180 \$	-	\$ 54,180 \$	-	\$ 5,418 \$	48,762 \$	-	\$ -	\$ 48,762
532.63 Cornell Madison South Woodlot Park	2019	\$ 54,180 \$	-	\$ 54,180 \$	-	\$ 5,418 \$	48,762 \$	-	\$ -	\$ 48,762
532.64 Remington Markham Centre Central Park N. Phase 2	2019	\$ 72,240 \$	-	\$ 72,240 \$	-	\$ 7,224 \$	65,016 \$	-	\$ -	\$ 65,016
532.65 Times-Murphy Hill Valley Edge Park S.	2019	\$ 27,090 \$	-	\$ 27,090 \$	-	\$ 2,709 \$	24,381 \$	-	\$ -	\$ 24,381
532.66 Times-Murphy Hill Valley Edge Park E.	2019	\$ 9,030 \$	-	\$ 9,030 \$	-	\$ 903 \$	8,127 \$	-	\$ -	\$ 8,127
532.67 OPA 15 Markham Centre Chimenti Court Park	2019	\$ 18,060 \$	-	\$ 18,060 \$	-	\$ 1,806 \$	16,254 \$	-	\$ -	\$ 16,254
532.68 Wismer Hwy. #48 Anderson Ave. Park	2019	\$ 18,060 \$	-	\$ 18,060 \$	-	\$ 1,806 \$	16,254 \$	-	\$ -	\$ 16,254
532.69 Woodbine Bypass Park	2020	\$ 43,344 \$	-	\$ 43,344 \$	-	\$ 4,334 \$	39,010 \$	-	\$ -	\$ 39,010
532.70 Cornell Shroff Hwy. #7 and 9th Line N.P.	2020	\$ 43,344 \$	-	\$ 43,344 \$	-	\$ 4,334 \$	39,010 \$	-	\$ -	\$ 39,010
532.71 John St Community Park (South/East of Cottonwood Cr)	2020	\$ 86,688 \$	-	\$ 86,688 \$	-	\$ 8,669 \$	78,019 \$	-	\$ -	\$ 78,019
532.72 Tridel Markham Centre Linear Park W. (West of Circa Dr.)	2020	\$ 7,224 \$	-	\$ 7,224 \$	-	\$ 722 \$	6,502 \$	-	\$ -	\$ 6,502
532.73 East Precinct Markham Centre S. Parkette	2020	\$ 10,836 \$	-	\$ 10,836 \$	-	\$ 1,084 \$	9,752 \$	-	\$ -	\$ 9,752
532.74 Main Street Milliken Armadale N.P.	2020	\$ 23,478 \$	-	\$ 23,478 \$	-	\$ 2,348 \$	21,130 \$	-	\$ -	\$ 21,130
532.75 Main Street Milliken SE Parkette	2020	\$ 3,612 \$	-	\$ 3,612 \$	-	\$ 361 \$	3,251 \$	-	\$ -	\$ 3,251
532.76 Main Street Milliken SW Parkette	2020	\$ 3,612 \$	-	\$ 3,612 \$	-	\$ 361 \$	3,251 \$	-	\$ -	\$ 3,251
532.77 Fairtree East Village Remington Parkview Community Park E.	2021	\$ 90,300 \$	-	\$ 90,300 \$	-	\$ 9,030 \$	81,270 \$	-	\$ -	\$ 81,270
532.78 Fairtree East Village Remington Parkview Neighbourhood Park	2021	\$ 14,448 \$	-	\$ 14,448 \$	-	\$ 1,445 \$	13,003 \$	-	\$ -	\$ 13,003
532.79 Fairtree East Village Remington Parkview Parkette	2021	\$ 3,612 \$	-	\$ 3,612 \$	-	\$ 361 \$	3,251 \$	-	\$ -	\$ 3,251
532.80 Don Mills/Steeles Markhamgate Park	2021	\$ 7,224 \$	-	\$ 7,224 \$	-	\$ 722 \$	6,502 \$	-	\$ -	\$ 6,502
532.81 Times-Murphy Hill Valley Edge Park N.W.	2021	\$ 16,254 \$	-	\$ 16,254 \$	-	\$ 1,625 \$	14,629 \$	-	\$ -	\$ 14,629
532.82 Wismer Hwy. #48 Major Mackenzie Park	2021	\$ 18,060 \$	-	\$ 18,060 \$	-	\$ 1,806 \$	16,254 \$	-	\$ -	\$ 16,254
532.83 Upper Cornell N.P.	2022	\$ 36,120 \$	-	\$ 36,120 \$	-	\$ 3,612 \$	32,508 \$	-	\$ -	\$ 32,508
532.84 Times-Murphy Hill Warden & Hwy. #7 Oval Parkette	2022	\$ 7,224 \$	-	\$ 7,224 \$	-	\$ 722 \$	6,502 \$	-	\$ -	\$ 6,502
532.85 Yonge/Steeles Grandview Ave. Parkette	2022	\$ 18,060 \$	-	\$ 18,060 \$	-	\$ 1,806 \$	16,254 \$	-	\$ -	\$ 16,254
532.86 Yonge/Steeles Woodward Ave. Parkette	2022	\$ 3,612 \$	-	\$ 3,612 \$	-	\$ 361 \$	3,251 \$	-	\$ -	\$ 3,251
532.87 Yonge/Steeles Highland Park Ave. Parkette N.	2022	\$ 10,836 \$	-	\$ 10,836 \$	-	\$ 1,084 \$	9,752 \$	-	\$ -	\$ 9,752
532.88 Yonge/Steeles Highland Park Ave. Parkette S.	2022	\$ 18,060 \$	-	\$ 18,060 \$	-	\$ 1,806 \$	16,254 \$	-	\$ -	\$ 16,254
Subtotal Landscape Irrigation/Large Parks		\$ 1,694,750 \$	-	\$ 1,694,750 \$	-	\$ 169,475 \$	1,525,275 \$	-	\$ -	\$ 1,525,275
										\$ 444,384
										\$ 1,080,891

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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		Post 2022
						10% Reduction	DC Eligible Costs		Available DC Reserves	2013-2022	
5.0 PARK DEVELOPMENT & FACILITIES											
5.33 Landscape Irrigation Small Detailed Parks											
5.33.1 Angus Glen Community Centre Park	2013	\$ 21,672	-	\$ 21,672	-	-	\$ 2,167	\$ 19,505	\$ -	\$ 19,505	\$ -
5.33.2 Boxgrove Hill South East Parkette	2013	\$ 722	-	\$ 722	-	-	\$ 72	\$ 650	\$ -	\$ 650	\$ -
5.33.3 Southwest Cathedral Monarch Memorial Neighbourhood Park	2013	\$ 7,224	-	\$ 7,224	-	-	\$ 722	\$ 6,502	\$ -	\$ 6,502	\$ -
5.33.4 South East Markham Community Centre Park	2013	\$ 3,612	-	\$ 3,612	-	-	\$ 361	\$ 3,251	\$ -	\$ 3,251	\$ -
5.33.5 Remington Markham Centre Heritage House Parkette (2 parcels)	2013	\$ 7,224	-	\$ 7,224	-	-	\$ 722	\$ 6,502	\$ -	\$ 6,502	\$ -
5.33.6 Remington Markham Centre Civic Mall Phase 1	2013	\$ 14,448	-	\$ 14,448	-	-	\$ 1,445	\$ 13,003	\$ -	\$ 13,003	\$ -
5.33.7 Markham Sports Park	2013	\$ 14,448	-	\$ 14,448	-	-	\$ 1,445	\$ 13,003	\$ -	\$ 13,003	\$ -
5.33.8 Wismer Community Park, Washroom Pavilion and Maintenance Station	2013	\$ 3,612	-	\$ 3,612	-	-	\$ 361	\$ 3,251	\$ -	\$ 3,251	\$ -
5.33.9 Boxgrove Community Park Washroom Pavilion and Pedestrian Bridge	2014	\$ 7,224	-	\$ 7,224	-	-	\$ 722	\$ 6,502	\$ -	\$ 6,502	\$ -
5.33.10 Connell Community Park	2014	\$ 10,836	-	\$ 10,836	-	-	\$ 1,084	\$ 9,752	\$ -	\$ 9,752	\$ -
5.33.11 Main St Milliken NW Parkette (Cotton Lane)	2014	\$ 1,445	-	\$ 1,445	-	-	\$ 144	\$ 1,300	\$ -	\$ 1,300	\$ -
5.33.12 Wismer Hwy. #48 Museum North	2014	\$ 7,224	-	\$ 7,224	-	-	\$ 722	\$ 6,502	\$ -	\$ 6,502	\$ -
5.33.13 Egin St. Honsburger Park	2014	\$ 7,224	-	\$ 7,224	-	-	\$ 722	\$ 6,502	\$ -	\$ 6,502	\$ -
5.33.14 Angus Glen Com Cntr. Washroom Pavilion and Maintenance Station	2015	\$ 3,612	-	\$ 3,612	-	-	\$ 361	\$ 3,251	\$ -	\$ 3,251	\$ -
5.33.15 Berczy Beckett East Parkette	2015	\$ 3,612	-	\$ 3,612	-	-	\$ 361	\$ 3,251	\$ -	\$ 3,251	\$ -
5.33.16 Berczy Beckett Neighbourhood Park	2015	\$ 3,612	-	\$ 3,612	-	-	\$ 361	\$ 3,251	\$ -	\$ 3,251	\$ -
5.33.17 Berczy Beckett East Parkette	2015	\$ 3,612	-	\$ 3,612	-	-	\$ 361	\$ 3,251	\$ -	\$ 3,251	\$ -
5.33.18 Berczy Beckett NW Parkette	2015	\$ 1,445	-	\$ 1,445	-	-	\$ 144	\$ 1,300	\$ -	\$ 1,300	\$ -
5.33.19 Berczy Beckett NW Parkette	2015	\$ 3,612	-	\$ 3,612	-	-	\$ 361	\$ 3,251	\$ -	\$ 3,251	\$ -
5.33.20 Connell Community Centre Square	2015	\$ 7,224	-	\$ 7,224	-	-	\$ 722	\$ 6,502	\$ -	\$ 6,502	\$ -
5.33.21 Connell Maltany East Church Street Parkette	2015	\$ 3,612	-	\$ 3,612	-	-	\$ 361	\$ 3,251	\$ -	\$ 3,251	\$ -
5.33.22 Connell Madison Rouge Blvd. Park	2015	\$ 1,445	-	\$ 1,445	-	-	\$ 144	\$ 1,300	\$ -	\$ 1,300	\$ -
5.33.23 Connell Madison Rouge Blvd. Park S.	2015	\$ 3,612	-	\$ 3,612	-	-	\$ 361	\$ 3,251	\$ -	\$ 3,251	\$ -
5.33.24 Liberty Markham Centre Oak Park Warden W.	2015	\$ 14,448	-	\$ 14,448	-	-	\$ 1,445	\$ 13,003	\$ -	\$ 13,003	\$ -
5.33.25 Times-Murphy Hill Hwy. #7 Window Park	2015	\$ 14,448	-	\$ 14,448	-	-	\$ 1,445	\$ 13,003	\$ -	\$ 13,003	\$ -
5.33.26 Wismer McCowan Woodlot Park (4 parcels)	2015	\$ 7,224	-	\$ 7,224	-	-	\$ 722	\$ 6,502	\$ -	\$ 6,502	\$ -
5.33.27 Remington Markham Centre East Central Parkette	2016	\$ 10,836	-	\$ 10,836	-	-	\$ 1,084	\$ 9,752	\$ -	\$ 9,752	\$ -
5.33.28 Remington Markham Centre Central Park S.	2017	\$ 7,224	-	\$ 7,224	-	-	\$ 722	\$ 6,502	\$ -	\$ 6,502	\$ -
5.33.29 East Precinct Markham Centre N. Parkette	2017	\$ 4,334	-	\$ 4,334	-	-	\$ 433	\$ 3,901	\$ -	\$ 3,901	\$ -
5.33.30 Remington Markham Centre N.E. Valley Edge Parkette	2017	\$ 7,224	-	\$ 7,224	-	-	\$ 722	\$ 6,502	\$ -	\$ 6,502	\$ -
5.33.31 Main Street Milliken NW Parkette	2017	\$ 1,445	-	\$ 1,445	-	-	\$ 144	\$ 1,300	\$ -	\$ 1,300	\$ -
5.33.32 Victoria Square Community Park N. Phase	2018	\$ 7,224	-	\$ 7,224	-	-	\$ 722	\$ 6,502	\$ -	\$ 6,502	\$ -
5.33.33 Times-Murphy Hill Valley Edge Park N.	2018	\$ 36,120	-	\$ 36,120	-	-	\$ 3,612	\$ 32,508	\$ -	\$ 32,508	\$ -
5.33.34 OPA 15 Markham Centre Neighbourhood Park	2018	\$ 36,120	-	\$ 36,120	-	-	\$ 3,612	\$ 32,508	\$ -	\$ 32,508	\$ -
5.33.35 OPA 15 Markham Centre Village Parkway Town Square	2018	\$ 7,224	-	\$ 7,224	-	-	\$ 722	\$ 6,502	\$ -	\$ 6,502	\$ -
5.33.36 Heritage Park adjacent Aiyeh Straits Park	2018	\$ 1,445	-	\$ 1,445	-	-	\$ 144	\$ 1,300	\$ -	\$ 1,300	\$ -
5.33.37 Yonge/John St. Parkette	2018	\$ 5,418	-	\$ 5,418	-	-	\$ 542	\$ 4,876	\$ -	\$ 4,876	\$ -
5.33.38 Yonge/Cobourne St. Parkette	2018	\$ 5,418	-	\$ 5,418	-	-	\$ 542	\$ 4,876	\$ -	\$ 4,876	\$ -
5.33.39 116 Clark Ave. Woodlot Park	2018	\$ 1,084	-	\$ 1,084	-	-	\$ 108	\$ 975	\$ -	\$ 975	\$ -
5.33.40 Angus Glen West Village Riverside Park W.	2019	\$ 7,224	-	\$ 7,224	-	-	\$ 722	\$ 6,502	\$ -	\$ 6,502	\$ -
5.33.41 Remington Markham Centre Central Park N. Phase 2	2019	\$ 28,896	-	\$ 28,896	-	-	\$ 2,890	\$ 26,006	\$ -	\$ 26,006	\$ -
5.33.42 Times-Murphy Hill Valley Edge Park S.	2019	\$ 14,448	-	\$ 14,448	-	-	\$ 1,445	\$ 13,003	\$ -	\$ 13,003	\$ -
5.33.43 Times-Murphy Hill Valley Edge Park E.	2019	\$ 7,224	-	\$ 7,224	-	-	\$ 722	\$ 6,502	\$ -	\$ 6,502	\$ -
5.33.44 Dudley Park	2019	\$ 36,120	-	\$ 36,120	-	-	\$ 3,612	\$ 32,508	\$ -	\$ 32,508	\$ -
5.33.45 Woodbine Bypass Park	2020	\$ 1,445	-	\$ 1,445	-	-	\$ 144	\$ 1,300	\$ -	\$ 1,300	\$ -
5.33.46 Tridel Markham Centre Linear Park W. (West of Circa Dr.)	2020	\$ 3,612	-	\$ 3,612	-	-	\$ 361	\$ 3,251	\$ -	\$ 3,251	\$ -



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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	Ineligible Costs 10% Reduction	Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs		
									2013	2022	
5.0 PARK DEVELOPMENT & FACILITIES											
5.33 Landscape Irrigation Small Detailed Parks											
5.33.47 Remington Markham Centre East Valley Edge Lineart Paik	2020	\$ 3,612 \$	- \$	\$ 3,612 \$	-	\$ 361 \$	\$ 3,251 \$	- \$	- \$	\$ 3,251	\$ 3,251
5.33.48 East Precinct Markham Centre S. Parkette	2020	\$ 3,612 \$	- \$	\$ 3,612 \$	-	\$ 361 \$	\$ 3,251 \$	- \$	- \$	\$ 3,251	\$ 3,251
5.33.49 Main Street Milliken Armdale N.P.	2020	\$ 14,448 \$	- \$	\$ 14,448 \$	-	\$ 1,445 \$	\$ 13,003 \$	- \$	- \$	\$ 13,003	\$ 13,003
5.33.50 Main Street Milliken SE Parkette	2020	\$ 1,445 \$	- \$	\$ 1,445 \$	-	\$ 144 \$	\$ 1,300 \$	- \$	- \$	\$ 1,300	\$ 1,300
5.33.51 Main Street Milliken SW Parkette	2020	\$ 1,445 \$	- \$	\$ 1,445 \$	-	\$ 144 \$	\$ 1,300 \$	- \$	- \$	\$ 1,300	\$ 1,300
5.33.52 Yonge/Elgin St. Parkette	2020	\$ 5,418 \$	- \$	\$ 5,418 \$	-	\$ 542 \$	\$ 4,876 \$	- \$	- \$	\$ 4,876	\$ 4,876
5.33.53 Fairtree East Village Remington Parkview Community Park E.	2021	\$ 14,448 \$	- \$	\$ 14,448 \$	-	\$ 1,445 \$	\$ 13,003 \$	- \$	- \$	\$ 13,003	\$ 13,003
5.33.54 Fairtree East Village Remington Parkview Parkette	2021	\$ 3,612 \$	- \$	\$ 3,612 \$	-	\$ 361 \$	\$ 3,251 \$	- \$	- \$	\$ 3,251	\$ 3,251
5.33.55 Don Mills/Steeles Markhamgate Park	2021	\$ 3,612 \$	- \$	\$ 3,612 \$	-	\$ 361 \$	\$ 3,251 \$	- \$	- \$	\$ 3,251	\$ 3,251
5.33.56 Times-Murphy Hill Valley Edge Park N.W.	2021	\$ 4,334 \$	- \$	\$ 4,334 \$	-	\$ 433 \$	\$ 3,901 \$	- \$	- \$	\$ 3,901	\$ 3,901
5.33.57 Main St. Markham Town Square	2021	\$ 28,896 \$	- \$	\$ 28,896 \$	-	\$ 2,890 \$	\$ 26,006 \$	- \$	- \$	\$ 26,006	\$ 26,006
5.33.58 Wismer Hwy. #48 Major Mackenzie Park	2021	\$ 14,448 \$	- \$	\$ 14,448 \$	-	\$ 1,445 \$	\$ 13,003 \$	- \$	- \$	\$ 13,003	\$ 13,003
5.33.59 Upper Cornell N.P.	2022	\$ 10,836 \$	- \$	\$ 10,836 \$	-	\$ 1,084 \$	\$ 9,752 \$	- \$	- \$	\$ 9,752	\$ 9,752
5.33.60 Yonge/Steeles Clark, Ave. Parkette	2022	\$ 5,418 \$	- \$	\$ 5,418 \$	-	\$ 542 \$	\$ 4,876 \$	- \$	- \$	\$ 4,876	\$ 4,876
5.33.61 Yonge/Steeles Morgan Ave. Parkette	2022	\$ 18,060 \$	- \$	\$ 18,060 \$	-	\$ 1,806 \$	\$ 16,254 \$	- \$	- \$	\$ 16,254	\$ 16,254
5.33.62 Yonge/Steeles Glen Cameron Rd. Parkette	2022	\$ 5,057 \$	- \$	\$ 5,057 \$	-	\$ 506 \$	\$ 4,551 \$	- \$	- \$	\$ 4,551	\$ 4,551
5.33.63 Yonge/Steeles Grandview Ave. Parkette	2022	\$ 3,612 \$	- \$	\$ 3,612 \$	-	\$ 361 \$	\$ 3,251 \$	- \$	- \$	\$ 3,251	\$ 3,251
5.33.64 Yonge/Steeles Woodward Ave. Parkette	2022	\$ 3,612 \$	- \$	\$ 3,612 \$	-	\$ 361 \$	\$ 3,251 \$	- \$	- \$	\$ 3,251	\$ 3,251
5.33.65 Yonge/Steeles Highland Park Ave. Parkette N.	2022	\$ 7,224 \$	- \$	\$ 7,224 \$	-	\$ 722 \$	\$ 6,502 \$	- \$	- \$	\$ 6,502	\$ 6,502
5.33.66 Yonge/Steeles Highland Park Ave. Parkette S.	2022	\$ 3,612 \$	- \$	\$ 3,612 \$	-	\$ 361 \$	\$ 3,251 \$	- \$	- \$	\$ 3,251	\$ 3,251
Subtotal Landscape Irrigation Small Detailed Parks		\$ 565,278 \$	- \$	\$ 565,278 \$	-	\$ 56,528 \$	\$ 508,750 \$	- \$	- \$	\$ 508,750	\$ 412,527
5.34 Major Skate Park											
5.34.1 Markham Sports Park	2013	\$ 1,834,896 \$	- \$	\$ 1,834,896 \$	-	\$ 185,490 \$	\$ 1,651,406 \$	- \$	- \$	\$ 1,651,406	\$ -
5.34.2 Cornell Community Park	2014	\$ 917,448 \$	- \$	\$ 917,448 \$	-	\$ 91,745 \$	\$ 825,703 \$	- \$	- \$	\$ 825,703	\$ -
Subtotal Major Skate Park		\$ 2,752,344 \$	- \$	\$ 2,752,344 \$	-	\$ 275,234 \$	\$ 2,477,110 \$	- \$	- \$	\$ 2,477,110	\$ -
5.35 Minor Skate Park											
5.35.1 Boxgrove Community Park	2013	\$ 250,000 \$	- \$	\$ 250,000 \$	-	\$ 25,000 \$	\$ 225,000 \$	- \$	- \$	\$ 225,000	\$ -
5.35.2 Boxgrove Hill South East Parkette	2013	\$ 250,000 \$	- \$	\$ 250,000 \$	-	\$ 25,000 \$	\$ 225,000 \$	- \$	- \$	\$ 225,000	\$ -
5.35.3 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 250,000 \$	- \$	\$ 250,000 \$	-	\$ 25,000 \$	\$ 225,000 \$	- \$	- \$	\$ 225,000	\$ -
5.35.4 South East Markham Community Centre Park	2013	\$ 250,000 \$	- \$	\$ 250,000 \$	-	\$ 25,000 \$	\$ 225,000 \$	- \$	- \$	\$ 225,000	\$ -
5.35.5 Leitchcroft (Times) Community Park	2013	\$ 250,000 \$	- \$	\$ 250,000 \$	-	\$ 25,000 \$	\$ 225,000 \$	- \$	- \$	\$ 225,000	\$ -
5.35.6 South Unionville Ray Street Parkette E.	2013	\$ 250,000 \$	- \$	\$ 250,000 \$	-	\$ 25,000 \$	\$ 225,000 \$	- \$	- \$	\$ 225,000	\$ -
5.35.7 World on Yonge: Central Parkette	2013	\$ 250,000 \$	- \$	\$ 250,000 \$	-	\$ 25,000 \$	\$ 225,000 \$	- \$	- \$	\$ 225,000	\$ -
5.35.8 Leitchcroft Community Park Phase 2 (Western park addition)	2014	\$ 250,000 \$	- \$	\$ 250,000 \$	-	\$ 25,000 \$	\$ 225,000 \$	- \$	- \$	\$ 225,000	\$ -
5.35.9 Liberty Markham Centre Oak Park Warden W.	2015	\$ 250,000 \$	- \$	\$ 250,000 \$	-	\$ 25,000 \$	\$ 225,000 \$	- \$	- \$	\$ 225,000	\$ -
5.35.10 Remington Markham Centre Central Park N. Phase 2	2019	\$ 250,000 \$	- \$	\$ 250,000 \$	-	\$ 25,000 \$	\$ 225,000 \$	- \$	- \$	\$ 225,000	\$ -
5.35.11 OPA 15 Markham Centre Chirmenti Court Park	2019	\$ 250,000 \$	- \$	\$ 250,000 \$	-	\$ 25,000 \$	\$ 225,000 \$	- \$	- \$	\$ 225,000	\$ -
5.35.12 Main Street Milliken Armdale N.P.	2020	\$ 250,000 \$	- \$	\$ 250,000 \$	-	\$ 25,000 \$	\$ 225,000 \$	- \$	- \$	\$ 225,000	\$ -
Subtotal Minor Skate Park		\$ 3,000,000 \$	- \$	\$ 3,000,000 \$	-	\$ 300,000 \$	\$ 2,700,000 \$	- \$	- \$	\$ 2,700,000	\$ 900,000

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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grant/ Subsidy/ Other Recoveries	Net Municipal Cost	Replacement & ETE Shares	Ineligible Costs % Reduction	Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs 2022	Post 2022
5.0 PARK DEVELOPMENT & FACILITIES										
5.36 Park Development - Community/7 JmWide										
5.36.1 Angus Glen Community Centre Park	2013	\$ 1,698,438	\$ -	\$ 1,698,438	\$ -	\$ -	\$ 1,698,438	\$ -	\$ 1,698,438	\$ -
5.36.2 Angus Glen West Village Triangle Parkette	2013	\$ 113,229	\$ -	\$ 113,229	\$ -	\$ -	\$ 113,229	\$ -	\$ 101,906	\$ 101,906
5.36.3 Angus Glen West Village Edge/Playground Park	2013	\$ 150,029	\$ -	\$ 150,029	\$ -	\$ -	\$ 150,029	\$ -	\$ 135,026	\$ 135,026
5.36.4 Angus Glen West Village Central Green	2013	\$ 158,521	\$ -	\$ 158,521	\$ -	\$ -	\$ 158,521	\$ -	\$ 142,669	\$ 142,669
5.36.5 Boxgrove Community Park	2013	\$ 4,336,678	\$ -	\$ 4,336,678	\$ -	\$ -	\$ 4,336,678	\$ -	\$ 3,903,011	\$ 3,903,011
5.36.6 Boxgrove Hill South East Parkette	2013	\$ 127,383	\$ -	\$ 127,383	\$ -	\$ -	\$ 127,383	\$ -	\$ 114,645	\$ 114,645
5.36.7 Boxgrove Southeast Heritage House Parkette	2013	\$ 127,383	\$ -	\$ 127,383	\$ -	\$ -	\$ 127,383	\$ -	\$ 114,645	\$ 114,645
5.36.8 Kentview Parkette (with Box-9)	2013	\$ 96,245	\$ -	\$ 96,245	\$ -	\$ -	\$ 96,245	\$ -	\$ 86,620	\$ 86,620
5.36.9 Berczy Community Park	2013	\$ 283,073	\$ -	\$ 283,073	\$ -	\$ -	\$ 283,073	\$ -	\$ 254,766	\$ 254,766
5.36.10 Berczy Community Park: Waterplay	2013	\$ 113,229	\$ -	\$ 113,229	\$ -	\$ -	\$ 113,229	\$ -	\$ 101,906	\$ 101,906
5.36.11 Victoria Square Community Park S: Phase Playground and Waterplay	2013	\$ 367,995	\$ -	\$ 367,995	\$ -	\$ -	\$ 367,995	\$ -	\$ 331,195	\$ 331,195
5.36.12 Southwest Cathedral Monarch Memorial Neighbourhood Park	2013	\$ 849,219	\$ -	\$ 849,219	\$ -	\$ -	\$ 849,219	\$ -	\$ 764,297	\$ 764,297
5.36.13 Southwest Cathedral Monarch Memorial Parkette	2013	\$ 367,995	\$ -	\$ 367,995	\$ -	\$ -	\$ 367,995	\$ -	\$ 331,195	\$ 331,195
5.36.14 Cornell Madison East Woodlot Park	2013	\$ 1,990,003	\$ -	\$ 1,990,003	\$ -	\$ -	\$ 1,990,003	\$ -	\$ 1,791,003	\$ 1,791,003
5.36.15 Golden Jubilee (Flanking Northvale)	2013	\$ 25,477	\$ -	\$ 25,477	\$ -	\$ -	\$ 25,477	\$ -	\$ 22,929	\$ 22,929
5.36.16 H&R Grand Cornell Linear Finger Park	2013	\$ 172,675	\$ -	\$ 172,675	\$ -	\$ -	\$ 172,675	\$ -	\$ 155,407	\$ 155,407
5.36.17 Villages of Fairtree Community Park: Washroom Pavilion	2013	\$ 113,229	\$ -	\$ 113,229	\$ -	\$ -	\$ 113,229	\$ -	\$ 101,906	\$ 101,906
5.36.18 Kirkham Park (South East Markham Community Centre Park)	2013	\$ 2,898,668	\$ -	\$ 2,898,668	\$ -	\$ -	\$ 2,898,668	\$ -	\$ 2,608,801	\$ 2,608,801
5.36.19 South East Markham Community Centre Park	2013	\$ 537,839	\$ -	\$ 537,839	\$ -	\$ -	\$ 537,839	\$ -	\$ 484,055	\$ 484,055
5.36.20 Leitchcroft (Times) Community Park	2013	\$ 863,373	\$ -	\$ 863,373	\$ -	\$ -	\$ 863,373	\$ -	\$ 777,035	\$ 777,035
5.36.21 South Unionville Ray Street Parkette E.	2013	\$ 339,688	\$ -	\$ 339,688	\$ -	\$ -	\$ 339,688	\$ -	\$ 305,719	\$ 305,719
5.36.22 South Unionville Ray Street Parkette W.	2013	\$ 158,521	\$ -	\$ 158,521	\$ -	\$ -	\$ 158,521	\$ -	\$ 142,669	\$ 142,669
5.36.23 Tridel Markham Centre Linear Park E. (East of Circa - Phase 2 only)	2013	\$ 97,660	\$ -	\$ 97,660	\$ -	\$ -	\$ 97,660	\$ -	\$ 87,894	\$ 87,894
5.36.24 Remington Markham Centre Heritage House Parkette (2 parcels)	2013	\$ 135,875	\$ -	\$ 135,875	\$ -	\$ -	\$ 135,875	\$ -	\$ 122,288	\$ 122,288
5.36.25 Remington Markham Centre Civic Mall Phase 1	2013	\$ 246,274	\$ -	\$ 246,274	\$ -	\$ -	\$ 246,274	\$ -	\$ 221,646	\$ 221,646
5.36.26 Markham Sports Park	2013	\$ 11,603,162	\$ -	\$ 11,603,162	\$ -	\$ -	\$ 11,603,162	\$ -	\$ 10,442,846	\$ 10,442,846
5.36.27 Wismer Community Park: Washroom Pavilion and Maintenance Station	2013	\$ 283,073	\$ -	\$ 283,073	\$ -	\$ -	\$ 283,073	\$ -	\$ 254,766	\$ 254,766
5.36.28 Wismer Community Park Phase 3 Castlemore Frontage	2013	\$ 744,482	\$ -	\$ 744,482	\$ -	\$ -	\$ 744,482	\$ -	\$ 670,034	\$ 670,034
5.36.29 World on Yonge: Meadowvale Ave. Park	2013	\$ 70,768	\$ -	\$ 70,768	\$ -	\$ -	\$ 70,768	\$ -	\$ 63,691	\$ 63,691
5.36.30 World on Yonge: Yonge Parkette	2013	\$ 45,292	\$ -	\$ 45,292	\$ -	\$ -	\$ 45,292	\$ -	\$ 40,763	\$ 40,763
5.36.31 World on Yonge: Central Parkette	2013	\$ 45,292	\$ -	\$ 45,292	\$ -	\$ -	\$ 45,292	\$ -	\$ 40,763	\$ 40,763
5.36.32 Angus Glen West Village Parkette	2014	\$ 39,630	\$ -	\$ 39,630	\$ -	\$ -	\$ 39,630	\$ -	\$ 35,667	\$ 35,667
5.36.33 Boxgrove Community Park Washroom Pavilion and Pedestrian Bridge	2014	\$ 141,537	\$ -	\$ 141,537	\$ -	\$ -	\$ 141,537	\$ -	\$ 127,383	\$ 127,383
5.36.34 Berczy Northeast McCowan Parkette	2014	\$ 76,430	\$ -	\$ 76,430	\$ -	\$ -	\$ 76,430	\$ -	\$ 68,787	\$ 68,787
5.36.35 Cornell Community Park	2014	\$ 2,986,420	\$ -	\$ 2,986,420	\$ -	\$ -	\$ 2,986,420	\$ -	\$ 2,887,778	\$ 2,887,778
5.36.36 Cornell Madison Rouge/Riverlands	2014	\$ 200,982	\$ -	\$ 200,982	\$ -	\$ -	\$ 200,982	\$ -	\$ 180,884	\$ 180,884
5.36.37 Cornell Madison Rouge/Riverlands	2014	\$ 251,935	\$ -	\$ 251,935	\$ -	\$ -	\$ 251,935	\$ -	\$ 226,741	\$ 226,741
5.36.38 Cornell Maitany Cornell Park Ave. N.P.	2014	\$ 82,091	\$ -	\$ 82,091	\$ -	\$ -	\$ 82,091	\$ -	\$ 73,882	\$ 73,882
5.36.39 Brother Andre Mt Joy Comm. Park Maintenance Station	2014	\$ 114,560	\$ -	\$ 114,560	\$ -	\$ -	\$ 114,560	\$ -	\$ 103,104	\$ 103,104
5.36.40 Greensborough Williamson NP	2014	\$ 444,425	\$ -	\$ 444,425	\$ -	\$ -	\$ 444,425	\$ -	\$ 399,982	\$ 399,982
5.36.41 Greensborough Solace Rd. N.P.	2014	\$ 59,445	\$ -	\$ 59,445	\$ -	\$ -	\$ 59,445	\$ -	\$ 53,501	\$ 53,501
5.36.42 Leitchcroft Community Park Phase 2 (Western park addition)	2014	\$ 45,292	\$ -	\$ 45,292	\$ -	\$ -	\$ 45,292	\$ -	\$ 40,763	\$ 40,763
5.36.43 Main St Milliken NW Parkette (Cotton Lane)	2014	\$ 28,307	\$ -	\$ 28,307	\$ -	\$ -	\$ 28,307	\$ -	\$ 25,477	\$ 25,477
5.36.44 Wismer Greenspire North Central Parkette	2014	\$ 113,229	\$ -	\$ 113,229	\$ -	\$ -	\$ 113,229	\$ -	\$ 101,906	\$ 101,906
5.36.45 Wismer Donald Mingay Parkette on Mingay (4 parcels)	2014	\$ 806,758	\$ -	\$ 806,758	\$ -	\$ -	\$ 806,758	\$ -	\$ 726,082	\$ 726,082
5.36.46 Wismer Hwy. #48 Hamersley Woodlot Park (3 parcels)	2014	\$ 710,513	\$ -	\$ 710,513	\$ -	\$ -	\$ 710,513	\$ -	\$ 639,462	\$ 639,462
5.36.47 Wismer Hwy. #48 Museum North	2014	\$ 141,537	\$ -	\$ 141,537	\$ -	\$ -	\$ 141,537	\$ -	\$ 127,383	\$ 127,383
5.36.48 Elgin St. Hensburger Park	2014	\$ 313,079	\$ -	\$ 313,079	\$ -	\$ -	\$ 313,079	\$ -	\$ 281,771	\$ 281,771



CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	10% Reduction	Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs 2013-2022	Post 2022	
											Ineligible Costs
5.0 PARK DEVELOPMENT & FACILITIES											
5.38 Park Development - Community/7km Wide											
5.36.49 Argoe Glen Con. Cntr. Washroom Pavilion and Maintenance Station	2015	\$ 16,884	\$ -	\$ 16,884	\$ -	\$ 1,688	\$ 15,286	\$ -	\$ -	\$ 15,286	
5.36.50 Swan Lake Park South Williamson Phase 6	2015	\$ 334,026	\$ -	\$ 334,026	\$ -	\$ 33,403	\$ 300,624	\$ -	\$ -	\$ 300,624	
5.36.51 Berczy Beckett East Parkette	2015	\$ 90,683	\$ -	\$ 90,683	\$ -	\$ 9,068	\$ 81,525	\$ -	\$ -	\$ 81,525	
5.36.52 Berczy Beckett Neighbourhood Park	2015	\$ 161,352	\$ -	\$ 161,352	\$ -	\$ 16,135	\$ 145,216	\$ -	\$ -	\$ 145,216	
5.36.53 Berczy Beckett East Parkette	2015	\$ 62,276	\$ -	\$ 62,276	\$ -	\$ 6,228	\$ 56,048	\$ -	\$ -	\$ 56,048	
5.36.54 Berczy Beckett NW Parkette	2015	\$ 227,025	\$ -	\$ 227,025	\$ -	\$ 22,702	\$ 204,322	\$ -	\$ -	\$ 204,322	
5.36.55 Berczy Beckett NW Parkette	2015	\$ 108,417	\$ -	\$ 108,417	\$ -	\$ 10,842	\$ 97,575	\$ -	\$ -	\$ 97,575	
5.36.56 Berczy Beckett NE Parkette	2015	\$ 48,122	\$ -	\$ 48,122	\$ -	\$ 4,812	\$ 43,310	\$ -	\$ -	\$ 43,310	
5.36.57 Berczy Park near Prince Charles Way	2015	\$ 110,388	\$ -	\$ 110,388	\$ -	\$ 11,040	\$ 99,389	\$ -	\$ -	\$ 99,389	
5.36.58 Northwest Cathedral Neighbourhood Park S.	2015	\$ 441,594	\$ -	\$ 441,594	\$ -	\$ 44,159	\$ 397,434	\$ -	\$ -	\$ 397,434	
5.36.59 Northwest Cathedral Neighbourhood Park N.	2015	\$ 144,367	\$ -	\$ 144,367	\$ -	\$ 14,437	\$ 129,931	\$ -	\$ -	\$ 129,931	
5.36.60 Cornell Community Park, Washroom Pavilion and Maintenance Station	2015	\$ 87,753	\$ -	\$ 87,753	\$ -	\$ 8,775	\$ 78,977	\$ -	\$ -	\$ 78,977	
5.36.61 Cornell Community Centre Square	2015	\$ 65,107	\$ -	\$ 65,107	\$ -	\$ 6,511	\$ 58,596	\$ -	\$ -	\$ 58,596	
5.36.62 Cornell Maitamy East Church Street Parkette	2015	\$ 67,938	\$ -	\$ 67,938	\$ -	\$ 6,794	\$ 61,144	\$ -	\$ -	\$ 61,144	
5.36.63 Cornell Madison Rouge Blvd. Park	2015	\$ 107,568	\$ -	\$ 107,568	\$ -	\$ 10,757	\$ 96,811	\$ -	\$ -	\$ 96,811	
5.36.64 Cornell Madison Rouge Blvd. Park S.	2015	\$ 70,768	\$ -	\$ 70,768	\$ -	\$ 7,077	\$ 63,691	\$ -	\$ -	\$ 63,691	
5.36.65 Cornell Madison Urban Parkette	2015	\$ 28,307	\$ -	\$ 28,307	\$ -	\$ 2,831	\$ 25,477	\$ -	\$ -	\$ 25,477	
5.36.66 John Daniels - Phase 2 (Fairy Park)	2015	\$ 36,799	\$ -	\$ 36,799	\$ -	\$ 3,680	\$ 33,120	\$ -	\$ -	\$ 33,120	
5.36.67 Greensborough Alfred Patterson Neighbourhood Park	2015	\$ 741,851	\$ -	\$ 741,851	\$ -	\$ 74,165	\$ 667,686	\$ -	\$ -	\$ 667,686	
5.36.68 Swan Lake Park Block 31	2015	\$ 359,503	\$ -	\$ 359,503	\$ -	\$ 35,950	\$ 323,552	\$ -	\$ -	\$ 323,552	
5.36.69 Liberty Markham Centre Oak Park Warden W.	2015	\$ 251,935	\$ -	\$ 251,935	\$ -	\$ 25,193	\$ 226,741	\$ -	\$ -	\$ 226,741	
5.36.70 Times-Murphy Hill Hwy. #7 Window Park	2015	\$ 243,443	\$ -	\$ 243,443	\$ -	\$ 24,344	\$ 219,099	\$ -	\$ -	\$ 219,099	
5.36.71 Wismer McGowan Woodlot Park (4 parcels)	2015	\$ 617,099	\$ -	\$ 617,099	\$ -	\$ 61,710	\$ 555,389	\$ -	\$ -	\$ 555,389	
5.36.72 Box Grove Rennie Ave NBHD Park	2016	\$ 200,982	\$ -	\$ 200,982	\$ -	\$ 20,098	\$ 180,884	\$ -	\$ -	\$ 180,884	
5.36.73 Northwest Cathedral Woodlot Park	2016	\$ 2,250,430	\$ -	\$ 2,250,430	\$ -	\$ 225,043	\$ 2,025,387	\$ -	\$ -	\$ 2,025,387	
5.36.74 East Cathedral Park adjacent Woodbine	2016	\$ 212,305	\$ -	\$ 212,305	\$ -	\$ 21,230	\$ 191,074	\$ -	\$ -	\$ 191,074	
5.36.75 Cornell Secondary School Neighbourhood Park	2016	\$ 495,378	\$ -	\$ 495,378	\$ -	\$ 49,538	\$ 445,840	\$ -	\$ -	\$ 445,840	
5.36.76 Cornell Centre Maitamy Woodlot Park	2016	\$ 1,135,123	\$ -	\$ 1,135,123	\$ -	\$ 113,512	\$ 1,021,610	\$ -	\$ -	\$ 1,021,610	
5.36.77 Remnant Woodlot Parkette	2016	\$ 76,430	\$ -	\$ 76,430	\$ -	\$ 7,643	\$ 68,787	\$ -	\$ -	\$ 68,787	
5.36.78 North Donald Cousine Park	2016	\$ 863,373	\$ -	\$ 863,373	\$ -	\$ 86,337	\$ 777,035	\$ -	\$ -	\$ 777,035	
5.36.79 Jessamyn Settler's Park Landscaping	2016	\$ 198,151	\$ -	\$ 198,151	\$ -	\$ 19,815	\$ 178,336	\$ -	\$ -	\$ 178,336	
5.36.80 Remington Markham Centre Active Park East	2016	\$ 424,610	\$ -	\$ 424,610	\$ -	\$ 42,461	\$ 382,149	\$ -	\$ -	\$ 382,149	
5.36.81 Remington Markham Centre East Central Parkette	2016	\$ 71,617	\$ -	\$ 71,617	\$ -	\$ 7,162	\$ 64,456	\$ -	\$ -	\$ 64,456	
5.36.82 South Unionville Community Park W.	2016	\$ 605,776	\$ -	\$ 605,776	\$ -	\$ 60,578	\$ 545,199	\$ -	\$ -	\$ 545,199	
5.36.83 South Unionville West Greenburg Parkette	2016	\$ 158,521	\$ -	\$ 158,521	\$ -	\$ 15,852	\$ 142,669	\$ -	\$ -	\$ 142,669	
5.36.84 Wismer Alexander Lowrey Neighbourhood Park West	2016	\$ 334,026	\$ -	\$ 334,026	\$ -	\$ 33,403	\$ 300,624	\$ -	\$ -	\$ 300,624	
5.36.85 Wismer Alexander Lowrey Neighbourhood Park East	2016	\$ 127,383	\$ -	\$ 127,383	\$ -	\$ 12,738	\$ 114,645	\$ -	\$ -	\$ 114,645	
5.36.86 Bogrove Hill East Parkette	2017	\$ 28,307	\$ -	\$ 28,307	\$ -	\$ 2,831	\$ 25,477	\$ -	\$ -	\$ 25,477	
5.36.87 Berczy Park near Williams St	2017	\$ 36,799	\$ -	\$ 36,799	\$ -	\$ 3,680	\$ 33,120	\$ -	\$ -	\$ 33,120	
5.36.88 Woodbine North Entry Park (SW corner)	2017	\$ 9,341	\$ -	\$ 9,341	\$ -	\$ 934	\$ 8,407	\$ -	\$ -	\$ 8,407	
5.36.89 Woodbine North Entry Park (SE corner)	2017	\$ 9,341	\$ -	\$ 9,341	\$ -	\$ 934	\$ 8,407	\$ -	\$ -	\$ 8,407	
5.36.90 H&R Grand Cornell Horseshoe Park (Clock Tower) - PH 2	2017	\$ 113,229	\$ -	\$ 113,229	\$ -	\$ 11,323	\$ 101,906	\$ -	\$ -	\$ 101,906	
5.36.91 Cornell Centre Maitamy N.P.	2017	\$ 50,953	\$ -	\$ 50,953	\$ -	\$ 5,095	\$ 45,858	\$ -	\$ -	\$ 45,858	
5.36.92 Cornell Centre South NBHD Park (HR)	2017	\$ 382,149	\$ -	\$ 382,149	\$ -	\$ 38,215	\$ 343,934	\$ -	\$ -	\$ 343,934	
5.36.93 Liberty Markham Centre Oak Park Warden E.	2017	\$ 110,398	\$ -	\$ 110,398	\$ -	\$ 11,040	\$ 99,359	\$ -	\$ -	\$ 99,359	
5.36.94 Remington Markham Centre Central Park S.	2017	\$ 286,399	\$ -	\$ 286,399	\$ -	\$ 28,640	\$ 257,759	\$ -	\$ -	\$ 257,759	
5.36.95 East Pritchard Markham Centre N. Parkette	2017	\$ 280,242	\$ -	\$ 280,242	\$ -	\$ 28,024	\$ 252,218	\$ -	\$ -	\$ 252,218	
5.36.96 Remington Markham Centre N.E. Valley Edge Parkette	2017	\$ 20,864	\$ -	\$ 20,864	\$ -	\$ 2,086	\$ 18,588	\$ -	\$ -	\$ 18,588	
5.36.97 Main Street Milliken NW Parkette	2017	\$ 13,588	\$ -	\$ 13,588	\$ -	\$ 1,359	\$ 12,229	\$ -	\$ -	\$ 12,229	
5.36.98 Victoria Square Community Park N. Phase	2018	\$ 1,120,969	\$ -	\$ 1,120,969	\$ -	\$ 112,097	\$ 1,008,872	\$ -	\$ -	\$ 1,008,872	
5.36.99 Cornell Madison East Channel Park (North)	2018	\$ 49,538	\$ -	\$ 49,538	\$ -	\$ 4,954	\$ 44,584	\$ -	\$ -	\$ 44,584	
5.36.100 Cornell Madison East Channel Park (South)	2018	\$ 63,691	\$ -	\$ 63,691	\$ -	\$ 6,369	\$ 57,322	\$ -	\$ -	\$ 57,322	



APPENDIX B.5
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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Replacement & BTE Shares	DC Eligible Costs		Available DC Reserves	2013-2022	Post 2022
						10% Reduction	Total DC Eligible Costs			
5.0 PARK DEVELOPMENT & FACILITIES										
5.36 Park Development - Community7 JmiWide										
5.36-101 H & R Grand Cornell South Valley Edge Park East and West Banks	2018	\$ 424,610	\$ -	\$ 424,610	\$ -	\$ -	\$ 42,461	\$ 382,149	\$ -	\$ 382,149
5.36-102 Upper Cornell Parkette	2018	\$ 14,154	\$ -	\$ 14,154	\$ -	\$ -	\$ 1,415	\$ 12,738	\$ -	\$ 12,738
5.36-103 Times-Murphy Hill Valley Edge Park N.	2018	\$ 820,912	\$ -	\$ 820,912	\$ -	\$ -	\$ 82,091	\$ 738,821	\$ -	\$ 738,821
5.36-104 OPA 15 Markham Centre Neighbourhood Park	2018	\$ 1,137,953	\$ -	\$ 1,137,953	\$ -	\$ -	\$ 113,795	\$ 1,024,158	\$ -	\$ 1,024,158
5.36-105 OPA 15 Markham Centre Village Parkway Town Square	2018	\$ 33,969	\$ -	\$ 33,969	\$ -	\$ -	\$ 3,397	\$ 30,572	\$ -	\$ 30,572
5.36-106 Highway No. 7 & Warden Ave. Park	2018	\$ 382,149	\$ -	\$ 382,149	\$ -	\$ -	\$ 38,215	\$ 343,934	\$ -	\$ 343,934
5.36-107 Aiyeh Strata Park adjacent Aiyeh	2018	\$ 325,534	\$ -	\$ 325,534	\$ -	\$ -	\$ 32,553	\$ 292,981	\$ -	\$ 292,981
5.36-108 Heritage Park adjacent Aiyeh Strata Park	2018	\$ 56,615	\$ -	\$ 56,615	\$ -	\$ -	\$ 5,661	\$ 50,953	\$ -	\$ 50,953
5.36-109 Annina Court to McCowan Trail Park	2018	\$ 141,537	\$ -	\$ 141,537	\$ -	\$ -	\$ 14,154	\$ 127,383	\$ -	\$ 127,383
5.36-110 Yonge/John St. Parkette	2018	\$ 146,915	\$ -	\$ 146,915	\$ -	\$ -	\$ 14,691	\$ 132,223	\$ -	\$ 132,223
5.36-111 Yonge/Colbourne St. Parkette	2018	\$ 52,369	\$ -	\$ 52,369	\$ -	\$ -	\$ 5,237	\$ 47,132	\$ -	\$ 47,132
5.36-112 116 Clark Ave. Woodlot Park	2018	\$ 253,067	\$ -	\$ 253,067	\$ -	\$ -	\$ 25,307	\$ 227,761	\$ -	\$ 227,761
5.36-113 Angus Glen West Village Riverside Park W.	2019	\$ 73,599	\$ -	\$ 73,599	\$ -	\$ -	\$ 7,360	\$ 66,239	\$ -	\$ 66,239
5.36-114 Angus Glen Parkette adjacent East Village	2019	\$ 56,615	\$ -	\$ 56,615	\$ -	\$ -	\$ 5,661	\$ 50,953	\$ -	\$ 50,953
5.36-115 Cornell Madison South Woodlot Park	2019	\$ 79,260	\$ -	\$ 79,260	\$ -	\$ -	\$ 7,926	\$ 71,334	\$ -	\$ 71,334
5.36-116 Cornell Madison South Woodlot Park	2019	\$ 566,146	\$ -	\$ 566,146	\$ -	\$ -	\$ 56,615	\$ 509,531	\$ -	\$ 509,531
5.36-117 Cornell Madison Hwy. #7 and Rouge Blvd. Linear Park	2019	\$ 31,138	\$ -	\$ 31,138	\$ -	\$ -	\$ 3,114	\$ 28,024	\$ -	\$ 28,024
5.36-118 H & R Grand Cornell Hwy. #7 and Rouge Blvd. South Linear Park	2019	\$ 80,959	\$ -	\$ 80,959	\$ -	\$ -	\$ 8,096	\$ 72,863	\$ -	\$ 72,863
5.36-119 H & R Grand Cornell Hwy. #7 and Rouge Blvd. Southwest Linear Park	2019	\$ 31,138	\$ -	\$ 31,138	\$ -	\$ -	\$ 3,114	\$ 28,024	\$ -	\$ 28,024
5.36-120 Fairness East Village Forest Bay Neighbourhood Park	2019	\$ 2,618,425	\$ -	\$ 2,618,425	\$ -	\$ -	\$ 261,843	\$ 2,356,583	\$ -	\$ 2,356,583
5.36-121 Greensborough North Parkway N.P. West	2019	\$ 155,690	\$ -	\$ 155,690	\$ -	\$ -	\$ 15,569	\$ 140,121	\$ -	\$ 140,121
5.36-122 Greensborough North Parkway N.P. East	2019	\$ 172,675	\$ -	\$ 172,675	\$ -	\$ -	\$ 17,267	\$ 155,407	\$ -	\$ 155,407
5.36-123 Remington Markham Centre Central Park N. Phase 2	2019	\$ 1,135,123	\$ -	\$ 1,135,123	\$ -	\$ -	\$ 113,512	\$ 1,021,610	\$ -	\$ 1,021,610
5.36-124 Times-Murphy Hill Valley Edge Park S.	2019	\$ 135,875	\$ -	\$ 135,875	\$ -	\$ -	\$ 13,588	\$ 122,288	\$ -	\$ 122,288
5.36-125 Times-Murphy Hill Valley Edge Park E.	2019	\$ 328,365	\$ -	\$ 328,365	\$ -	\$ -	\$ 32,836	\$ 295,528	\$ -	\$ 295,528
5.36-126 OPA 15 Markham Centre Chiment Court Park	2019	\$ 1,160,599	\$ -	\$ 1,160,599	\$ -	\$ -	\$ 116,060	\$ 1,044,539	\$ -	\$ 1,044,539
5.36-127 Wismer Hwy. #48 Anderson Ave. Park	2019	\$ 76,430	\$ -	\$ 76,430	\$ -	\$ -	\$ 7,643	\$ 68,787	\$ -	\$ 68,787
5.36-128 Dudley Park	2019	\$ 277,412	\$ -	\$ 277,412	\$ -	\$ -	\$ 27,741	\$ 249,670	\$ -	\$ 249,670
5.36-129 Woodbine Bypass Park	2020	\$ 636,914	\$ -	\$ 636,914	\$ -	\$ -	\$ 63,691	\$ 573,223	\$ -	\$ 573,223
5.36-130 Cornell Shroff Hwy. #7 and 9th Line N.P.	2020	\$ 339,688	\$ -	\$ 339,688	\$ -	\$ -	\$ 33,969	\$ 305,719	\$ -	\$ 305,719
5.36-131 Cornell SW park	2020	\$ 396,302	\$ -	\$ 396,302	\$ -	\$ -	\$ 39,630	\$ 356,672	\$ -	\$ 356,672
5.36-132 John St Community Park (South/East of Cottonwood Ct)	2020	\$ 4,274,402	\$ -	\$ 4,274,402	\$ -	\$ -	\$ 427,440	\$ 3,846,962	\$ -	\$ 3,846,962
5.36-133 Tridel Markham Centre Linear Park W. (West of Circa Dr.)	2020	\$ 138,706	\$ -	\$ 138,706	\$ -	\$ -	\$ 13,871	\$ 124,835	\$ -	\$ 124,835
5.36-134 Remington Markham Centre East Valley Edge Linear Park	2020	\$ 461,409	\$ -	\$ 461,409	\$ -	\$ -	\$ 46,141	\$ 415,268	\$ -	\$ 415,268
5.36-135 East Precinct Markham Centre S. Parkette	2020	\$ 962,448	\$ -	\$ 962,448	\$ -	\$ -	\$ 96,245	\$ 866,203	\$ -	\$ 866,203
5.36-136 Remington Markham Centre Central Park N.	2020	\$ 16,701	\$ -	\$ 16,701	\$ -	\$ -	\$ 1,670	\$ 15,031	\$ -	\$ 15,031
5.36-137 Tridel Markham Centre Linear Park W. (West of Phase 2, East of Circa Dr.)	2020	\$ 45,292	\$ -	\$ 45,292	\$ -	\$ -	\$ 4,529	\$ 40,763	\$ -	\$ 40,763
5.36-138 East Warden at Clegg Road Park NE side	2020	\$ 113,229	\$ -	\$ 113,229	\$ -	\$ -	\$ 11,323	\$ 101,906	\$ -	\$ 101,906
5.36-139 Main Street Milliken Armadale N.P.	2020	\$ 594,453	\$ -	\$ 594,453	\$ -	\$ -	\$ 59,445	\$ 535,008	\$ -	\$ 535,008
5.36-140 Main Street Milliken SE Parkette	2020	\$ 12,465	\$ -	\$ 12,465	\$ -	\$ -	\$ 1,246	\$ 11,210	\$ -	\$ 11,210
5.36-141 Main Street Milliken SW Parkette	2020	\$ 13,021	\$ -	\$ 13,021	\$ -	\$ -	\$ 1,302	\$ 11,719	\$ -	\$ 11,719
5.36-142 Yonge/Elgin St. Parkette	2020	\$ 172,958	\$ -	\$ 172,958	\$ -	\$ -	\$ 17,296	\$ 155,662	\$ -	\$ 155,662
5.36-143 H & R Grand Cornell Southwest Woodlot N. P.	2021	\$ 2,734,485	\$ -	\$ 2,734,485	\$ -	\$ -	\$ 273,449	\$ 2,461,037	\$ -	\$ 2,461,037
5.36-144 Fairness East Village Forest Bay Community Park W. (Pair w/FAIR-7)	2021	\$ 133,044	\$ -	\$ 133,044	\$ -	\$ -	\$ 13,304	\$ 119,740	\$ -	\$ 119,740
5.36-145 Fairness East Village Remington Parkview Community Park E.	2021	\$ 348,180	\$ -	\$ 348,180	\$ -	\$ -	\$ 34,818	\$ 313,362	\$ -	\$ 313,362
5.36-146 Fairness East Village Remington Parkview Neighbourhood Park	2021	\$ 183,997	\$ -	\$ 183,997	\$ -	\$ -	\$ 18,400	\$ 165,598	\$ -	\$ 165,598



APPENDIX B.5
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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARK DEVELOPMENT & FACILITIES

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs	
					Replacement & BTE Shares	10% Reduction		Available DC Reserves	2013-2022
5.0 PARK DEVELOPMENT & FACILITIES									
5.36 Park Development - Community/7 JmWide									
5.36.147 Fairtree East Village Remington Parkview Parkette	2021	\$ 99,359	\$ -	\$ 99,359	\$ -	\$ 9,936	\$ 89,423	\$ -	\$ 89,423
5.36.148 Don Mills/Steeles Markhamgate Park	2021	\$ 217,400	\$ -	\$ 217,400	\$ -	\$ 21,740	\$ 195,660	\$ -	\$ 195,660
5.36.149 Times-Murphy Hill Valley Edge Park N.W.	2021	\$ 724,687	\$ -	\$ 724,687	\$ -	\$ 72,467	\$ 652,200	\$ -	\$ 652,200
5.36.150 Park N.E. Of Verdlaire Gate	2021	\$ 24,344	\$ -	\$ 24,344	\$ -	\$ 2,434	\$ 21,910	\$ -	\$ 21,910
5.36.151 Main St. Markham Town Square	2021	\$ 96,245	\$ -	\$ 96,245	\$ -	\$ 9,624	\$ 86,620	\$ -	\$ 86,620
5.36.152 Wismer Hwy. #48 Major Mackenzie Park	2021	\$ 144,367	\$ -	\$ 144,367	\$ -	\$ 14,437	\$ 129,931	\$ -	\$ 129,931
5.36.153 Upper Cornell N.P.	2022	\$ 566,146	\$ -	\$ 566,146	\$ -	\$ 56,615	\$ 509,531	\$ -	\$ 509,531
5.36.154 Times-Murphy Hill Warden & Hwy. #7 Oval Parkette	2022	\$ 212,305	\$ -	\$ 212,305	\$ -	\$ 21,230	\$ 191,074	\$ -	\$ 191,074
5.36.155 Yonge/Steeles Clark Ave. Parkette	2022	\$ 28,307	\$ -	\$ 28,307	\$ -	\$ 2,831	\$ 25,477	\$ -	\$ 25,477
5.36.156 Yonge/Steeles Morgan Ave. Parkette	2022	\$ 99,076	\$ -	\$ 99,076	\$ -	\$ 9,908	\$ 89,168	\$ -	\$ 89,168
5.36.157 Yonge/Steeles Glen Cameron Rd. Parkette	2022	\$ 45,292	\$ -	\$ 45,292	\$ -	\$ 4,529	\$ 40,763	\$ -	\$ 40,763
5.36.158 Yonge/Steeles Grandview Ave. Parkette	2022	\$ 62,276	\$ -	\$ 62,276	\$ -	\$ 6,228	\$ 56,048	\$ -	\$ 56,048
5.36.159 Yonge/Steeles Woodward Ave. Parkette	2022	\$ 73,599	\$ -	\$ 73,599	\$ -	\$ 7,360	\$ 66,239	\$ -	\$ 66,239
5.36.160 Yonge/Steeles Highland Park Ave. Parkette N.	2022	\$ 107,568	\$ -	\$ 107,568	\$ -	\$ 10,757	\$ 96,811	\$ -	\$ 96,811
5.36.161 Yonge/Steeles Highland Park Ave. Parkette S.	2022	\$ 39,630	\$ -	\$ 39,630	\$ -	\$ 3,963	\$ 35,667	\$ -	\$ 35,667
Subtotal Park Development - Community/Town Wide		\$ 74,757,159	\$ -	\$ 74,757,159	\$ -	\$ 7,475,716	\$ 67,281,443	\$ -	\$ 27,905,919
5.37 Parks Buildings									
5.37.1 East Yard Garage/Office	2014	\$ 2,968,700	\$ -	\$ 2,968,700	\$ -	\$ 296,870	\$ 2,671,830	\$ -	\$ 2,671,830
Subtotal Parks Buildings		\$ 2,968,700	\$ -	\$ 2,968,700	\$ -	\$ 296,870	\$ 2,671,830	\$ -	\$ 2,671,830
5.38 Land for Parks Buildings									
5.38.1 Parks Share of East Yard	2014	\$ 3,125,815	\$ -	\$ 3,125,815	\$ -	\$ 312,582	\$ 2,813,234	\$ -	\$ 2,813,234
Subtotal Land for Parks Buildings		\$ 3,125,815	\$ -	\$ 3,125,815	\$ -	\$ 312,582	\$ 2,813,234	\$ -	\$ 2,813,234
TOTAL PARK DEVELOPMENT & FACILITIES		\$ 269,032,214	\$ -	\$ 269,032,214	\$ -	\$ 26,903,221	\$ 242,128,993	\$ 47,714,829	\$ 60,935,521

Residential Development Charge Calculation		
Residential Share of 2013 - 2022 DC Eligible Costs	100%	\$60,935,521
10-Year Growth in Population in New Units		67,212
Unadjusted Development Charge Per Capita		\$906.62
Non-Residential Development Charge Calculation		
Non-Residential Share of 2013 - 2022 DC Eligible Costs	0%	\$0
10-Year Growth in Square Metres		2,553,322
Unadjusted Development Charge Per Square Metre		\$0.00

2013 - 2022 Net Funding Envelope	\$60,935,521
Reserve Fund Balance	\$47,714,829



APPENDIX B.5
TABLE 3

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

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
PARK DEVELOPMENT & FACILITIES											
OPENING CASH BALANCE	\$0.00	(\$31,959.56)	(\$46,956.98)	(\$41,468.50)	(\$35,381.04)	(\$29,800.04)	(\$24,153.84)	(\$18,416.17)	(\$12,561.14)	(\$6,558.69)	
2013 - 2022 RESIDENTIAL FUNDING REQUIREMENTS											
- Parks And Recreation (New Projects): Nor	\$39,667.0	\$21,268.5	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$60,935.5
- Park Development & Facilities: Inflated	\$39,667.0	\$21,693.9	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$61,360.9
NEW RESIDENTIAL DEVELOPMENT											
- Population Growth in New Units	8,312	8,383	7,401	7,523	6,634	6,295	5,986	5,704	5,450	5,524	67,212
REVENUE											
- DC Receipts: Inflated	\$8,562.8	\$8,808.6	\$7,932.3	\$8,224.3	\$7,397.5	\$7,159.9	\$6,944.6	\$6,749.8	\$6,578.2	\$6,800.9	\$75,158.9
INTEREST											
- Interest on Opening Balance	\$0.0	(\$1,757.8)	(\$2,582.6)	(\$2,280.8)	(\$1,946.0)	(\$1,639.0)	(\$1,328.5)	(\$1,012.9)	(\$690.9)	(\$360.7)	(\$13,599.1)
- Interest on In-year Transactions	(\$855.4)	(\$354.3)	\$138.8	\$143.9	\$129.5	\$125.3	\$121.5	\$118.1	\$115.1	\$119.0	(\$198.4)
TOTAL REVENUE	\$7,707.4	\$6,696.5	\$5,488.5	\$6,087.5	\$5,581.0	\$5,646.2	\$5,737.7	\$5,855.0	\$6,002.5	\$6,559.2	\$61,361.4
CLOSING CASH BALANCE	(\$31,959.6)	(\$46,957.0)	(\$41,468.5)	(\$35,381.0)	(\$29,800.0)	(\$24,153.8)	(\$18,416.2)	(\$12,561.1)	(\$6,558.7)	\$0.5	

2013 Adjusted Charge Per Capita **\$1,030.17**

Allocation of Capital Program

Residential Sector 100.0%
Non-Residential Sector 0.0%

Rates for 2013

Inflation Rate: 2.0%
Interest Rate on Positive Balances 3.5%
Interest Rate on Negative Balances 5.5%

APPENDIX B.6

PUBLIC WORKS

APPENDIX B.6

PUBLIC WORKS

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

TABLE 1 2003-2012 HISTORIC SERVICE LEVELS

The ten-year historic inventory of capital assets for Public Works includes 63,350 square feet of building space with a replacement value of \$10.05 million. The 4.11 hectares of land associated with the Public Works buildings are valued at \$8.89 million, furniture and equipment amounts to \$1.00 million, and the public works fleet adds an additional \$40.83 million to the value of the capital assets.

The total value of the Public Works capital infrastructure is estimated to be \$60.78 million. The ten-year historic average service level is \$237.32 per household and employment and this, multiplied by the ten-year forecast household and employment growth (81,878), results in a ten-year maximum allowable of \$19.43 million. No excess capacity has been identified in this service, and also this service is not required to be discounted by ten per cent. As such, the resulting net maximum allowable funding envelope brought forward to the development charges calculation is \$19.43 million.

**TABLE 2 2013 – 2022 DEVELOPMENT-RELATED CAPITAL PROGRAM AND
CALCULATION OF THE UNADJUSTED DEVELOPMENT CHARGES**

The total 2013–2022 development-related capital program for the Public Works department amounts to \$33.61 million.

The main project in the Public Works capital program is the East Yard garage, office and domes and associated land requirements. The total construction cost of these buildings at the East Yard is \$10.00 million, and the land will be \$9.38 million. Equipment for the East Yard will add another \$259,600. Other buildings to be construction during the planning period is a central greenhouse for \$120,000, an expansion to the central shop for \$1.61 million, an addition to the fleet garage for

\$1.6 million, and an expansion to the works yard for \$7.0 million. There will be 87 additions to the current fleet for a total gross cost of \$3.64 million.

No grants, replacement shares, or ten per cent reduction shares have been identified for this service. An amount, \$12.53 million is available in the Public Works DC reserve fund and this amount has been utilized to fund the first projects that appear on the capital program list. Another portion, \$1.64 million is deemed as a post-period benefit, and will not be recovered under these development charges but is eligible for consideration in future development charge studies.

The 2013–2022 DC costs eligible for recovery amount to \$19.43 million is allocated 54 percent, or \$10.49 million, against new residential development, and 46 per cent, or \$8.94 million, against non-residential development. This yields an unadjusted development charge of \$156.08 per capita and \$3.50 per square metre.

TABLE 3 CASH FLOW ANALYSIS

After cash flow and reserve fund analysis, the residential calculated charge increases to \$167.65 per capita and the non-residential charge increases to \$3.78 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.

PUBLIC WORKS SUMMARY						
10-year Hist. Service Level per HH & emp	2013 - 2022		Unadjusted		Adjusted	
	Development-Related Total	Capital Program Net DC Recoverable	Development Charge		Development Charge	
			\$/capita	\$/sq.m	\$/capita	\$/sq.m
\$237.32	\$33,608,729	\$19,431,385	\$156.08	\$3.50	\$167.65	\$3.78

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
PUBLIC WORKS

BUILDINGS Facility Name	# of Square Feet											UNIT COST (\$/sq. ft.)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
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	33,002	33,002	\$227
Metal Storage Shed	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	\$32
Salt Dome Structure	6,450	6,450	6,450	6,450	6,450	6,450	6,450	6,450	6,450	6,450	6,450	6,450	\$95
Sand Dome Structure	6,450	6,450	6,450	6,450	6,450	6,450	6,450	6,450	6,450	6,450	6,450	6,450	\$95
Sign Shop	3,988	3,988	3,988	3,988	3,988	3,988	3,988	3,988	3,988	3,988	3,988	3,988	\$227
Wood Dome Structure	7,900	7,900	7,900	7,900	7,900	7,900	7,900	7,900	7,900	7,900	7,900	7,900	\$32
Wood Storage Shed	560	560	560	560	560	560	560	560	560	560	560	560	\$32
Quonset Hut	-	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	\$32
Total (#)	60,150	63,350	63,350	63,350	63,350	63,350	63,350	63,350	63,350	63,350	63,350	63,350	
Total (\$000)	\$9,950.6	\$10,053.0	\$10,053.0	\$10,053.0	\$10,053.0	\$10,053.0	\$10,053.0	\$10,053.0	\$10,053.0	\$10,053.0	\$10,053.0	\$10,053.0	\$10,053.0

LAND Facility Name	# of Hectares											UNIT COST (\$/ha)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
555 Miller Ave.	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	\$2,162,000
Total (ha)	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	
Total (\$000)	\$8,885.8	\$8,885.8	\$8,885.8	\$8,885.8	\$8,885.8	\$8,885.8	\$8,885.8	\$8,885.8	\$8,885.8	\$8,885.8	\$8,885.8	\$8,885.8	\$8,885.8

FURNITURE & EQUIPMENT Facility Name	Total Value of Furniture & Equipment (\$)												
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
Shop Equipment	\$389,000	\$389,000	\$389,000	\$389,000	\$389,000	\$389,000	\$389,000	\$389,000	\$389,000	\$389,000	\$389,000	\$389,000	\$399,000
Other Equipment	\$373,663	\$415,667	\$436,230	\$443,730	\$490,161	\$519,896	\$519,896	\$519,896	\$519,896	\$569,076	\$569,076	\$569,076	\$569,076
Brine Tanks	\$0	\$0	\$0	\$0	\$0	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000
Total (\$000)	\$762.7	\$804.7	\$825.2	\$832.7	\$879.2	\$943.9	\$943.9	\$943.9	\$943.9	\$1,003.1	\$1,003.1	\$1,003.1	\$1,003.1

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CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
PUBLIC WORKS

FLEET & EQUIPMENT Description	# of Fleet											UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
Utility Truckster	4	5	5	6	8	8	8	8	9	10	10	10	\$15,300
Rotary Walkbehind	15	19	22	24	24	30	30	20	20	20	20	20	\$5,000
Rotary Mower	4	4	4	5	5	6	6	6	8	8	8	8	\$27,800
Zero Turn Mower	7	19	31	37	37	39	39	39	41	43	43	43	\$19,075
Car Compact	5	5	5	5	5	5	5	13	13	13	13	13	\$18,565
Compact Pick-Up	23	19	16	15	13	12	11	11	11	13	13	13	\$24,916
Compact Van	10	11	13	14	15	17	17	17	17	17	17	17	\$27,300
Full Size 2WD Pick-Up	-	-	2	2	6	13	18	18	18	18	18	18	\$30,800
Full Size Van	8	11	15	20	20	23	34	34	34	34	34	34	\$31,200
1 Ton Full-Size Pick-Up	1	1	1	2	2	2	2	3	3	3	3	3	\$34,600
Car Mid Size	-	3	4	4	4	4	4	4	4	4	4	4	\$36,500
Full Size 4WD Pick-Up	30	31	39	43	46	50	55	59	60	61	61	61	\$36,800
Sport Utility Vehicle	-	-	-	5	7	7	7	23	23	23	24	24	\$40,400
1 Ton Flat Bed	23	22	18	18	18	18	18	18	18	19	19	19	\$58,780
3 ton Trucks	2	2	2	2	2	1	1	1	1	1	1	1	\$89,900
Agricultural Tractors	21	21	21	21	11	11	13	13	13	13	13	13	\$51,800
Articulating Loader	1	1	1	1	1	1	1	1	1	1	1	1	\$182,000
Backhoe	1	1	1	1	1	1	1	1	1	1	1	1	\$91,400
Bucket Truck	1	1	1	1	1	1	1	1	1	1	1	1	\$218,000
Camera Truck	1	1	1	1	1	1	1	1	1	1	1	1	\$242,100
Crane Truck	1	1	1	1	1	1	1	1	1	1	1	1	\$132,000
Cube Van	1	1	1	1	1	1	1	1	1	1	1	1	\$36,300
Gradall	1	1	1	-	-	-	-	-	-	-	-	-	\$318,100
Landscape Loader	1	1	1	5	5	5	5	5	5	5	5	5	\$84,900
Mott Mowers	9	4	4	4	4	4	4	4	4	4	4	4	\$10,700
Rotary Mowers 16' pull behind	1	1	1	1	1	1	1	1	1	1	1	1	\$13,666
Rotary Mowers 16' cut	5	6	6	6	6	6	6	6	6	6	6	6	\$90,739
Rotary mowers 72" and under	5	3	3	3	6	6	6	6	6	6	6	6	\$31,100
Sewer Flusher	1	1	1	1	1	1	1	1	1	1	1	1	\$380,100
Sidewalk Tractors Articulated	3	3	3	3	3	3	3	3	3	3	3	3	\$139,000
Sidewalk Grinder	-	-	-	-	-	-	-	-	-	-	-	-	\$25,500
Single Axle Dump Trucks	5	5	5	5	5	5	5	5	5	5	5	5	\$191,100
Sweeper	2	2	2	2	2	2	2	2	2	2	2	2	\$259,335
Tandem Dump Truck	2	2	2	2	2	2	2	2	2	2	2	2	\$205,000
Trailers	41	41	44	44	44	44	44	45	47	48	48	48	\$7,900

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CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
PUBLIC WORKS

FLEET & EQUIPMENT Description	# of Fleet												UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012				
Water truck	1	1	1	1	-	-	-	-	-	-	-	-	-	\$137,900
Air Compressor	1	1	1	1	1	1	1	1	1	1	1	1	1	\$20,900
Brush Chipper	2	2	2	2	2	2	2	2	2	2	2	2	2	\$35,335
Compact Sidewalk Tractor	-	-	-	-	-	3	3	3	3	3	3	3	3	\$46,000
Excavator Vacuum	1	1	1	1	1	1	1	1	1	1	1	1	1	\$73,200
Forklift	1	1	1	1	1	1	1	1	1	2	2	2	2	\$39,000
Parks Compactor Truck	1	1	1	1	1	2	2	2	2	2	2	2	2	\$135,200
Flatbed (>8,000 KG RG/VW)	2	3	5	11	13	13	13	15	15	15	15	15	15	\$73,150
Stump Cutter	1	1	1	1	1	1	1	1	1	1	1	1	1	\$45,000
Top Dressers	3	3	3	3	3	4	4	4	4	4	4	4	4	\$25,600
Sidewalk Ploughs	22	24	26	27	28	24	24	24	24	24	24	24	24	\$44,500
Sidewalk Flatbeds	10	10	11	12	9	8	8	8	8	8	8	8	8	\$67,000
Sander / Plough Trucks	13	13	14	16	17	18	18	18	19	19	19	19	19	\$205,000
Grader	31	33	34	36	38	39	39	39	40	40	40	40	40	\$318,100
Loaders	11	12	13	13	14	28	28	28	28	28	28	28	28	\$182,000
Windrow Trucks	-	-	-	-	-	-	-	-	5	7	8	8	8	\$41,800
Loaders with Plow Wing Combination	-	-	-	-	-	-	-	-	-	-	-	-	-	\$182,000
Total (#)	335	355	391	431	437	476	516	535	548	557	557	557	557	
Total (\$000)	\$27,278.8	\$28,607.1	\$30,144.1	\$32,472.0	\$33,244.8	\$36,861.9	\$38,555.5	\$39,598.6	\$40,027.0	\$40,833.8	\$40,833.8	\$40,833.8	\$40,833.8	

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CITY OF MARKHAM
CALCULATION OF SERVICE LEVELS
PUBLIC WORKS

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Historic Households	66,802	70,102	73,565	77,200	79,700	82,281	84,945	87,696	90,535	93,016
Historic Employment	133,921	137,557	141,192	144,828	147,799	150,770	153,741	156,712	159,683	166,125
Total Historic Households & Employ	200,723	207,659	214,757	222,028	227,499	233,051	238,686	244,408	250,218	259,141

INVENTORY SUMMARY (\$000)

Buildings	\$9,950.6	\$10,053.0	\$10,053.0	\$10,053.0	\$10,053.0	\$10,053.0	\$10,053.0	\$10,053.0	\$10,053.0	\$10,053.0
Land	\$8,885.8	\$8,885.8	\$8,885.8	\$8,885.8	\$8,885.8	\$8,885.8	\$8,885.8	\$8,885.8	\$8,885.8	\$8,885.8
Furniture & Equipment	\$762.7	\$804.7	\$825.2	\$832.7	\$879.2	\$943.9	\$943.9	\$943.9	\$1,003.1	\$1,003.1
Fleet & Equipment	\$27,278.8	\$28,607.1	\$30,144.1	\$32,472.0	\$33,244.8	\$36,861.9	\$38,555.5	\$39,598.6	\$40,027.0	\$40,833.8
Total (\$000)	\$46,877.8	\$48,350.5	\$49,908.1	\$52,243.5	\$53,062.8	\$56,744.5	\$58,438.1	\$59,481.3	\$59,968.8	\$60,775.7

SERVICE LEVEL (\$/HH & emp)

	Average Service Level										
Buildings	\$49.57	\$48.41	\$46.81	\$45.28	\$44.19	\$43.14	\$42.12	\$41.13	\$40.18	\$38.79	\$43.96
Land	\$44.27	\$42.79	\$41.38	\$40.02	\$39.06	\$38.13	\$37.23	\$36.36	\$35.51	\$34.29	\$38.90
Furniture & Equipment	\$3.80	\$3.87	\$3.84	\$3.75	\$3.86	\$4.05	\$3.95	\$3.86	\$4.01	\$3.87	\$3.89
Fleet & Equipment	\$135.90	\$137.76	\$140.36	\$146.25	\$146.13	\$158.17	\$161.53	\$162.02	\$159.97	\$157.57	\$150.57
Total (\$/HH & emp)	\$233.54	\$232.84	\$232.39	\$235.30	\$233.24	\$243.49	\$244.83	\$243.37	\$239.67	\$234.53	\$237.32

CITY OF MARKHAM
CALCULATION OF MAXIMUM ALLOWABLE
Crane Truck

10-Year Funding Envelope Calculation	
10 Year Average Service Level 2003 - 2012	\$237.32
Household & Employment Growth 2013 - 2022	81,878
Maximum Allowable Funding Envelope	\$19,431,385
Less: Uncommitted Excess Capacity	\$0
Discounted Maximum Allowable Funding Envelope	\$19,431,385

Excess Capacity Calculation

Total Value of Inventory in 2012	\$60,775,669
Inventory Using Average Service Level	\$61,499,425
Excess Capacity	\$0
Excess Capacity:	Committed

CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PUBLIC WORKS

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		Post 2022
					Replacement & BTE Shares	0% Reduction		Available DC Reserves	2013-2022	
6.0 PUBLIC WORKS										
6.1 Public Works Buildings										
6.1.1 East Yard Garage/Office	2014	\$ 8,906,250	\$ -	\$ 8,906,250	\$ -	\$ -	\$ 8,906,250	\$ 1,786,260	\$ 7,119,990	\$ -
6.1.2 East Yard Salt Sand Brine Dome	2014	\$ 1,100,000	\$ -	\$ 1,100,000	\$ -	\$ -	\$ 1,100,000	\$ -	\$ 1,100,000	\$ -
6.1.3 Greenhouse (Central)	2015	\$ 120,000	\$ -	\$ 120,000	\$ -	\$ -	\$ 120,000	\$ -	\$ 120,000	\$ -
6.1.4 Central Shop - Expansion	2015	\$ 1,610,000	\$ -	\$ 1,610,000	\$ -	\$ -	\$ 1,610,000	\$ -	\$ 1,610,000	\$ -
6.1.5 Four Bay Fleet Garage Addition	2016	\$ 1,600,000	\$ -	\$ 1,600,000	\$ -	\$ -	\$ 1,600,000	\$ -	\$ 1,600,000	\$ -
6.1.6 Works Yard - Expansion	2016	\$ 7,000,000	\$ -	\$ 7,000,000	\$ -	\$ -	\$ 7,000,000	\$ -	\$ 7,000,000	\$ -
Subtotal Public Works Buildings		\$ 20,336,250	\$ -	\$ 20,336,250	\$ -	\$ -	\$ 20,336,250	\$ 1,786,260	\$ 18,549,990	\$ -
6.2 Land for Public Works Buildings										
6.2.1 Public Works Share of East Yard	2013	\$ 9,375,000	\$ -	\$ 9,375,000	\$ -	\$ -	\$ 9,375,000	\$ 9,375,000	\$ -	\$ -
Subtotal Land for Public Works Buildings		\$ 9,375,000	\$ -	\$ 9,375,000	\$ -	\$ -	\$ 9,375,000	\$ 9,375,000	\$ -	\$ -
6.3 Furniture and Equipment										
6.3.1 East Yard Garage/Office	2014	\$ 259,600	\$ -	\$ 259,600	\$ -	\$ -	\$ 259,600	\$ 259,600	\$ -	\$ -
Subtotal Furniture and Equipment		\$ 259,600	\$ -	\$ 259,600	\$ -	\$ -	\$ 259,600	\$ 259,600	\$ -	\$ -
6.4 Fleet										
6.4.1 Excavator Vacuum	2013	\$ 73,200	\$ -	\$ 73,200	\$ -	\$ -	\$ 73,200	\$ 73,200	\$ -	\$ -
6.4.2 Rotary Mower	2013	\$ 27,800	\$ -	\$ 27,800	\$ -	\$ -	\$ 27,800	\$ 27,800	\$ -	\$ -
6.4.3 1 Ton Flat Bed	2013	\$ 58,780	\$ -	\$ 58,780	\$ -	\$ -	\$ 58,780	\$ 58,780	\$ -	\$ -
6.4.4 Compact Van	2013	\$ 27,300	\$ -	\$ 27,300	\$ -	\$ -	\$ 27,300	\$ 27,300	\$ -	\$ -
6.4.5 Trailers	2013	\$ 7,900	\$ -	\$ 7,900	\$ -	\$ -	\$ 7,900	\$ 7,900	\$ -	\$ -
6.4.6 Zero Turn Mower	2013	\$ 19,075	\$ -	\$ 19,075	\$ -	\$ -	\$ 19,075	\$ 19,075	\$ -	\$ -
6.4.7 Rotary Walkbehind	2013	\$ 5,000	\$ -	\$ 5,000	\$ -	\$ -	\$ 5,000	\$ 5,000	\$ -	\$ -
6.4.8 Full Size Van	2013	\$ 31,200	\$ -	\$ 31,200	\$ -	\$ -	\$ 31,200	\$ 31,200	\$ -	\$ -
6.4.1C Sidewalk Tractors Articulated	2014	\$ 139,000	\$ -	\$ 139,000	\$ -	\$ -	\$ 139,000	\$ 139,000	\$ -	\$ -
6.4.11 Forklift	2014	\$ 39,000	\$ -	\$ 39,000	\$ -	\$ -	\$ 39,000	\$ 39,000	\$ -	\$ -
6.4.12 Tandem Dump Truck	2014	\$ 205,000	\$ -	\$ 205,000	\$ -	\$ -	\$ 205,000	\$ 205,000	\$ -	\$ -
6.4.13 Car Compact	2014	\$ 18,565	\$ -	\$ 18,565	\$ -	\$ -	\$ 18,565	\$ 18,565	\$ -	\$ -
6.4.14 Full Size 2WD Pick-Up	2014	\$ 30,800	\$ -	\$ 30,800	\$ -	\$ -	\$ 30,800	\$ 30,800	\$ -	\$ -

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CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PUBLIC WORKS

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		Post 2022
					Replacement & BTE Shares	0% Reduction		Available DC Reserves	2013-2022	
6.0 PUBLIC WORKS										
6.4 Fleet										
6.4.15 Compact Pick-Up	2014	\$ 24,916	\$ -	\$ 24,916	\$ -	\$ -	\$ 24,916	\$ 24,916	\$ -	\$ -
6.4.16 Full Size 4WD Pick-Up	2014	\$ 36,800	\$ -	\$ 36,800	\$ -	\$ -	\$ 36,800	\$ 36,800	\$ -	\$ -
6.4.17 Flatbed (>8,000 KG RGWV)	2014	\$ 73,150	\$ -	\$ 73,150	\$ -	\$ -	\$ 73,150	\$ 73,150	\$ -	\$ -
6.4.18 1 Ton Flat Bed	2014	\$ 58,780	\$ -	\$ 58,780	\$ -	\$ -	\$ 58,780	\$ 58,780	\$ -	\$ -
6.4.19 Zero Turn Mower	2014	\$ 19,075	\$ -	\$ 19,075	\$ -	\$ -	\$ 19,075	\$ 19,075	\$ -	\$ -
6.4.20 Rotary Walkbehind	2014	\$ 5,000	\$ -	\$ 5,000	\$ -	\$ -	\$ 5,000	\$ 5,000	\$ -	\$ -
6.4.21 Full Size Van	2014	\$ 31,200	\$ -	\$ 31,200	\$ -	\$ -	\$ 31,200	\$ 31,200	\$ -	\$ -
6.4.9 Articulating Loader	2014	\$ 182,000	\$ -	\$ 182,000	\$ -	\$ -	\$ 182,000	\$ 182,000	\$ -	\$ -
6.4.22 Full Size 4WD Pick-Up	2015	\$ 36,800	\$ -	\$ 36,800	\$ -	\$ -	\$ 36,800	\$ -	\$ 36,800	\$ -
6.4.23 Flatbed (>8,000 KG RGWV)	2015	\$ 73,150	\$ -	\$ 73,150	\$ -	\$ -	\$ 73,150	\$ -	\$ 73,150	\$ -
6.4.24 Compact Van	2015	\$ 27,300	\$ -	\$ 27,300	\$ -	\$ -	\$ 27,300	\$ -	\$ 27,300	\$ -
6.4.25 Trailers	2015	\$ 7,900	\$ -	\$ 7,900	\$ -	\$ -	\$ 7,900	\$ -	\$ 7,900	\$ -
6.4.26 Rotary Walkbehind	2015	\$ 5,000	\$ -	\$ 5,000	\$ -	\$ -	\$ 5,000	\$ -	\$ 5,000	\$ -
6.4.27 Full Size Van	2015	\$ 31,200	\$ -	\$ 31,200	\$ -	\$ -	\$ 31,200	\$ -	\$ 31,200	\$ -
6.4.28 Sidewalk Tractors Articulated	2016	\$ 139,000	\$ -	\$ 139,000	\$ -	\$ -	\$ 139,000	\$ -	\$ 139,000	\$ -
6.4.29 Car Mid Size	2016	\$ 36,500	\$ -	\$ 36,500	\$ -	\$ -	\$ 36,500	\$ -	\$ 36,500	\$ -
6.4.30 Utility Truckster	2016	\$ 15,300	\$ -	\$ 15,300	\$ -	\$ -	\$ 15,300	\$ -	\$ 15,300	\$ -
6.4.31 Sport Utility Vehicle	2016	\$ 40,400	\$ -	\$ 40,400	\$ -	\$ -	\$ 40,400	\$ -	\$ 40,400	\$ -
6.4.32 Compact Pick-Up	2016	\$ 24,916	\$ -	\$ 24,916	\$ -	\$ -	\$ 24,916	\$ -	\$ 24,916	\$ -
6.4.33 1 Ton Flat Bed	2016	\$ 58,780	\$ -	\$ 58,780	\$ -	\$ -	\$ 58,780	\$ -	\$ 58,780	\$ -
6.4.34 Compact Van	2016	\$ 27,300	\$ -	\$ 27,300	\$ -	\$ -	\$ 27,300	\$ -	\$ 27,300	\$ -
6.4.35 Trailers	2016	\$ 7,900	\$ -	\$ 7,900	\$ -	\$ -	\$ 7,900	\$ -	\$ 7,900	\$ -
6.4.36 Zero Turn Mower	2016	\$ 19,075	\$ -	\$ 19,075	\$ -	\$ -	\$ 19,075	\$ -	\$ 19,075	\$ -
6.4.37 Rotary Walkbehind	2016	\$ 5,000	\$ -	\$ 5,000	\$ -	\$ -	\$ 5,000	\$ -	\$ 5,000	\$ -
6.4.38 Rotary Mower	2017	\$ 27,800	\$ -	\$ 27,800	\$ -	\$ -	\$ 27,800	\$ -	\$ 27,800	\$ -
6.4.39 Full Size 2WD Pick-Up	2017	\$ 30,800	\$ -	\$ 30,800	\$ -	\$ -	\$ 30,800	\$ -	\$ 30,800	\$ -
6.4.40 Zero Turn Mower	2017	\$ 19,075	\$ -	\$ 19,075	\$ -	\$ -	\$ 19,075	\$ -	\$ 19,075	\$ -
6.4.41 Full Size Van	2017	\$ 31,200	\$ -	\$ 31,200	\$ -	\$ -	\$ 31,200	\$ -	\$ 31,200	\$ -
6.4.42 Sidewalk Tractors Articulated	2018	\$ 139,000	\$ -	\$ 139,000	\$ -	\$ -	\$ 139,000	\$ -	\$ 139,000	\$ -
6.4.43 Full Size 4WD Pick-Up	2018	\$ 36,800	\$ -	\$ 36,800	\$ -	\$ -	\$ 36,800	\$ -	\$ 36,800	\$ -
6.4.44 Flatbed (>8,000 KG RGWV)	2018	\$ 73,150	\$ -	\$ 73,150	\$ -	\$ -	\$ 73,150	\$ -	\$ 41,199	\$ 31,951
6.4.45 1 Ton Flat Bed	2018	\$ 58,780	\$ -	\$ 58,780	\$ -	\$ -	\$ 58,780	\$ -	\$ -	\$ 58,780
6.4.46 Compact Van	2018	\$ 27,300	\$ -	\$ 27,300	\$ -	\$ -	\$ 27,300	\$ -	\$ -	\$ 27,300
6.4.47 Trailers	2018	\$ 7,900	\$ -	\$ 7,900	\$ -	\$ -	\$ 7,900	\$ -	\$ -	\$ 7,900
6.4.48 Rotary Walkbehind	2018	\$ 5,000	\$ -	\$ 5,000	\$ -	\$ -	\$ 5,000	\$ -	\$ -	\$ 5,000

CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PUBLIC WORKS

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs		Post 2022
					Replacement & BTE Shares	0% Reduction		Available DC Reserves	2013- 2022	
6.0 PUBLIC WORKS										
6.4 Fleet										
6.4.49 Full Size Van	2018	\$ 31,200	\$ -	\$ 31,200	\$ -	\$ -	\$ 31,200	\$ -	\$ -	\$ 31,200
6.4.50 Sidewalk Tractors Articulated	2019	\$ 139,000	\$ -	\$ 139,000	\$ -	\$ -	\$ 139,000	\$ -	\$ -	\$ 139,000
6.4.51 Car Compact	2019	\$ 18,565	\$ -	\$ 18,565	\$ -	\$ -	\$ 18,565	\$ -	\$ -	\$ 18,565
6.4.52 Full Size 2WD Pick-Up	2019	\$ 30,800	\$ -	\$ 30,800	\$ -	\$ -	\$ 30,800	\$ -	\$ -	\$ 30,800
6.4.53 Compact Pick-Up	2019	\$ 24,916	\$ -	\$ 24,916	\$ -	\$ -	\$ 24,916	\$ -	\$ -	\$ 24,916
6.4.54 Full Size 4WD Pick-Up	2019	\$ 36,800	\$ -	\$ 36,800	\$ -	\$ -	\$ 36,800	\$ -	\$ -	\$ 36,800
6.4.55 Flatbed (>8,000 KG RG/VW)	2019	\$ 73,150	\$ -	\$ 73,150	\$ -	\$ -	\$ 73,150	\$ -	\$ -	\$ 73,150
6.4.56 1 Ton Flat Bed	2019	\$ 58,780	\$ -	\$ 58,780	\$ -	\$ -	\$ 58,780	\$ -	\$ -	\$ 58,780
6.4.57 Zero Turn Mower	2020	\$ 19,075	\$ -	\$ 19,075	\$ -	\$ -	\$ 19,075	\$ -	\$ -	\$ 19,075
6.4.58 Rotary Walkbehind	2020	\$ 5,000	\$ -	\$ 5,000	\$ -	\$ -	\$ 5,000	\$ -	\$ -	\$ 5,000
6.4.59 Full Size Van	2020	\$ 31,200	\$ -	\$ 31,200	\$ -	\$ -	\$ 31,200	\$ -	\$ -	\$ 31,200
6.4.60 Full Size 4WD Pick-Up	2020	\$ 36,800	\$ -	\$ 36,800	\$ -	\$ -	\$ 36,800	\$ -	\$ -	\$ 36,800
6.4.61 Flatbed (>8,000 KG RG/VW)	2020	\$ 73,150	\$ -	\$ 73,150	\$ -	\$ -	\$ 73,150	\$ -	\$ -	\$ 73,150
6.4.62 Compact Van	2020	\$ 27,300	\$ -	\$ 27,300	\$ -	\$ -	\$ 27,300	\$ -	\$ -	\$ 27,300
6.4.63 Trailers	2020	\$ 7,900	\$ -	\$ 7,900	\$ -	\$ -	\$ 7,900	\$ -	\$ -	\$ 7,900
6.4.64 Rotary Walkbehind	2020	\$ 5,000	\$ -	\$ 5,000	\$ -	\$ -	\$ 5,000	\$ -	\$ -	\$ 5,000
6.4.65 Full Size Van	2020	\$ 31,200	\$ -	\$ 31,200	\$ -	\$ -	\$ 31,200	\$ -	\$ -	\$ 31,200
6.4.66 Sidewalk Tractors Articulated	2020	\$ 139,000	\$ -	\$ 139,000	\$ -	\$ -	\$ 139,000	\$ -	\$ -	\$ 139,000
6.4.67 Car Mid Size	2021	\$ 36,500	\$ -	\$ 36,500	\$ -	\$ -	\$ 36,500	\$ -	\$ -	\$ 36,500
6.4.68 Utility Truckster	2021	\$ 15,300	\$ -	\$ 15,300	\$ -	\$ -	\$ 15,300	\$ -	\$ -	\$ 15,300
6.4.69 Sport Utility Vehicle	2021	\$ 40,400	\$ -	\$ 40,400	\$ -	\$ -	\$ 40,400	\$ -	\$ -	\$ 40,400
6.4.70 Compact Pick-Up	2021	\$ 24,916	\$ -	\$ 24,916	\$ -	\$ -	\$ 24,916	\$ -	\$ -	\$ 24,916
6.4.71 1 Ton Flat Bed	2021	\$ 58,780	\$ -	\$ 58,780	\$ -	\$ -	\$ 58,780	\$ -	\$ -	\$ 58,780
6.4.72 Compact Van	2021	\$ 27,300	\$ -	\$ 27,300	\$ -	\$ -	\$ 27,300	\$ -	\$ -	\$ 27,300
6.4.73 Trailers	2021	\$ 7,900	\$ -	\$ 7,900	\$ -	\$ -	\$ 7,900	\$ -	\$ -	\$ 7,900
6.4.74 Zero Turn Mower	2021	\$ 19,075	\$ -	\$ 19,075	\$ -	\$ -	\$ 19,075	\$ -	\$ -	\$ 19,075
6.4.75 Rotary Walkbehind	2021	\$ 5,000	\$ -	\$ 5,000	\$ -	\$ -	\$ 5,000	\$ -	\$ -	\$ 5,000
6.4.76 Rotary Mower	2021	\$ 27,800	\$ -	\$ 27,800	\$ -	\$ -	\$ 27,800	\$ -	\$ -	\$ 27,800
6.4.77 Full Size 2WD Pick-Up	2021	\$ 30,800	\$ -	\$ 30,800	\$ -	\$ -	\$ 30,800	\$ -	\$ -	\$ 30,800
6.4.78 Zero Turn Mower	2021	\$ 19,075	\$ -	\$ 19,075	\$ -	\$ -	\$ 19,075	\$ -	\$ -	\$ 19,075

CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PUBLIC WORKS

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	DC Eligible Costs				
					Replacement & BTE Shares	0% Reduction		Available DC Reserves	2013-2022	Post 2022		
6.0 PUBLIC WORKS												
6.4 Fleet												
6.4.79 Full Size Van	2021	\$ 31,200	\$ -	\$ 31,200	\$ -	\$ -	\$ 31,200	\$ -	\$ -	\$ 31,200	\$ -	\$ 31,200
6.4.80 Sidewalk Tractors Articulated	2022	\$ 139,000	\$ -	\$ 139,000	\$ -	\$ -	\$ 139,000	\$ -	\$ -	\$ 139,000	\$ -	\$ 139,000
6.4.81 Full Size 4WD Pick-Up	2022	\$ 36,800	\$ -	\$ 36,800	\$ -	\$ -	\$ 36,800	\$ -	\$ -	\$ 36,800	\$ -	\$ 36,800
6.4.82 Flatbed (>8,000 KG RGWV)	2022	\$ 73,150	\$ -	\$ 73,150	\$ -	\$ -	\$ 73,150	\$ -	\$ -	\$ 73,150	\$ -	\$ 73,150
6.4.83 1 Ton Flat Bed	2022	\$ 58,780	\$ -	\$ 58,780	\$ -	\$ -	\$ 58,780	\$ -	\$ -	\$ 58,780	\$ -	\$ 58,780
6.4.84 Compact Van	2022	\$ 27,300	\$ -	\$ 27,300	\$ -	\$ -	\$ 27,300	\$ -	\$ -	\$ 27,300	\$ -	\$ 27,300
6.4.85 Trailers	2022	\$ 7,900	\$ -	\$ 7,900	\$ -	\$ -	\$ 7,900	\$ -	\$ -	\$ 7,900	\$ -	\$ 7,900
6.4.86 Rotary Walkbehind	2022	\$ 5,000	\$ -	\$ 5,000	\$ -	\$ -	\$ 5,000	\$ -	\$ -	\$ 5,000	\$ -	\$ 5,000
6.4.87 Full Size Van	2022	\$ 31,200	\$ -	\$ 31,200	\$ -	\$ -	\$ 31,200	\$ -	\$ -	\$ 31,200	\$ -	\$ 31,200
Subtotal Fleet		\$ 3,637,879	\$ -	\$ 3,637,879	\$ -	\$ -	\$ 3,637,879	\$ 1,113,541	\$ 881,395	\$ 1,642,943	\$ -	\$ 1,642,943
TOTAL PUBLIC WORKS		\$ 33,608,729	\$ -	\$ 33,608,729	\$ -	\$ -	\$ 33,608,729	\$ 12,534,401	\$ 19,431,385	\$ 1,642,943	\$ -	\$ 1,642,943

Residential Development Charge Calculation	
Residential Share of 2013 - 2022 DC Eligible Costs	\$10,490,577
10-Year Growth in Population in New Units	67,212
Unadjusted Development Charge Per Capita	\$156.08
Non-Residential Development Charge Calculation	
Non-Residential Share of 2013 - 2022 DC Eligible Costs	\$8,940,808
10-Year Growth in Square Metres	2,553,322
Unadjusted Development Charge Per Square Metre	\$3.50

2013 - 2022 Net Funding Envelope	\$19,431,385
Reserve Fund Balance	\$12,534,401

APPENDIX B.6
TABLE 3 - PAGE 1

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

PUBLIC WORKS	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
OPENING CASH BALANCE	\$0.00	\$1,417.89	(\$1,710.59)	(\$1,583.56)	(\$5,578.35)	(\$4,724.93)	(\$3,930.81)	(\$2,997.03)	(\$2,044.14)	(\$1,067.34)	
2013 - 2022 RESIDENTIAL FUNDING REQUIREMENTS											
- Public Works: Non Inflated	\$0.0	\$4,437.8	\$1,031.9	\$4,845.0	\$58.8	\$117.2	\$0.0	\$0.0	\$0.0	\$0.0	\$10,490.6
- Public Works: Inflated	\$0.0	\$4,526.5	\$1,073.6	\$5,141.5	\$63.6	\$129.3	\$0.0	\$0.0	\$0.0	\$0.0	\$10,934.6
NEW RESIDENTIAL DEVELOPMENT											
- Population Growth in New Units	8,312	8,383	7,401	7,523	6,634	6,295	5,986	5,704	5,450	5,524	67,212
REVENUE											
- DC Receipts: Inflated	\$1,393.5	\$1,433.5	\$1,290.9	\$1,338.4	\$1,203.9	\$1,165.2	\$1,130.2	\$1,098.5	\$1,070.5	\$1,106.8	\$12,231.4
INTEREST											
- Interest on Opening Balance	\$0.0	\$49.6	(\$94.1)	(\$87.1)	(\$306.8)	(\$259.9)	(\$216.2)	(\$164.8)	(\$112.4)	(\$58.7)	(\$1,250.4)
- Interest on In-year Transactions	\$24.4	(\$85.1)	\$3.8	(\$104.6)	\$20.0	\$18.1	\$19.8	\$19.2	\$18.7	\$19.4	(\$46.3)
TOTAL REVENUE	\$1,417.9	\$1,398.1	\$1,200.6	\$1,146.7	\$917.0	\$923.5	\$933.8	\$952.9	\$976.8	\$1,067.5	\$10,934.7
CLOSING CASH BALANCE	\$1,417.9	(\$1,710.6)	(\$1,583.6)	(\$5,578.3)	(\$4,724.9)	(\$3,930.8)	(\$2,997.0)	(\$2,044.1)	(\$1,067.3)	\$0.1	

2013 Adjusted Charge Per Capita **\$167.65**

Allocation of Capital Program	
Residential Sector	54.0%
Non-Residential Sector	46.0%
Rates for 2013	
Inflation Rate:	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%

APPENDIX B.6
TABLE 3 - PAGE 2

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

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
PUBLIC WORKS											
OPENING CASH BALANCE	\$0.00	\$1,052.60	(\$1,790.27)	(\$1,724.60)	(\$5,193.82)	(\$4,381.62)	(\$3,558.65)	(\$2,554.74)	(\$1,471.60)	(\$304.38)	
2013 - 2022 NON-RESIDENTIAL FUNDING REQUIREMENTS											
- Public Works: Non Inflated	\$0.0	\$3,782.2	\$879.5	\$4,129.2	\$50.1	\$99.8	\$0.0	\$0.0	\$0.0	\$0.0	\$8,940.8
- Public Works: Inflated	\$0.0	\$3,857.8	\$915.0	\$4,382.0	\$54.2	\$110.2	\$0.0	\$0.0	\$0.0	\$0.0	\$9,319.2
NON-RESIDENTIAL SPACE GROWTH											
- Growth in Square Metres	273,687	273,687	273,687	273,687	276,968	276,968	276,968	276,968	276,968	73,734	2,553,322
REVENUE											
- DC Receipts: Inflated	\$1,034.5	\$1,055.2	\$1,076.3	\$1,097.9	\$1,133.2	\$1,155.9	\$1,179.0	\$1,202.6	\$1,226.7	\$333.1	\$10,494.4
INTEREST											
- Interest on Opening Balance	\$0.0	\$36.8	(\$98.5)	(\$94.9)	(\$285.7)	(\$241.0)	(\$195.7)	(\$140.5)	(\$80.9)	(\$16.7)	(\$1,117.0)
- Interest on In-year Transactions	\$18.1	(\$77.1)	\$2.8	(\$90.3)	\$18.9	\$18.3	\$20.6	\$21.0	\$21.5	\$5.8	(\$40.3)
TOTAL REVENUE	\$1,052.6	\$1,015.0	\$980.7	\$912.7	\$866.4	\$933.2	\$1,003.9	\$1,063.1	\$1,167.2	\$322.2	\$9,337.1
CLOSING CASH BALANCE	\$1,052.6	(\$1,790.3)	(\$1,724.6)	(\$5,193.8)	(\$4,381.6)	(\$3,558.6)	(\$2,554.7)	(\$1,471.6)	(\$304.4)	\$17.8	

2013 Adjusted Charge Per Square Metre **\$3.78**

Allocation of Capital Program	
Residential Sector	54.0%
Non-Residential Sector	46.0%
Rates for 2013	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%

APPENDIX B.7

PARKING

APPENDIX B.7

PARKING

The City of Markham owns and operates both on street and off street parking spaces. This is a new service for DC recovery.

TABLE 1 2003-2012 HISTORIC SERVICE LEVELS

The ten-year historic inventory of capital assets for parking includes 178 on street parking spaces, with 17 meters, valued at \$3.17 million. There are two parking lots with a total of 50 parking spaces valued at \$125,000. The land for these parking lots add another \$406,000 to the inventory.

The total replacement value of the parking capital infrastructure is estimated to be \$3.70 million. The ten-year historic average service level is \$12.92 per employment and household, and multiplied by the ten-year forecast net household and employment growth (81,878), results in a ten-year maximum allowable of \$1.06 million. The uncommitted excess capacity of \$351,223 and the required 10 percent deduction as per the DCA of \$70,665 is then deducted. The resulting net maximum allowable funding envelope brought forward to the development charges calculation is reduced to \$635,982.

**TABLE 2 2013 – 2022 DEVELOPMENT-RELATED CAPITAL PROGRAM AND
CALCULATION OF THE UNADJUSTED DEVELOPMENT CHARGES**

The ten-year development-related capital plan for Parking provides for additional on street parking spaces for \$348,300. Additional parking meters are also anticipated for \$326,400. The capital program also includes one Parking Study at a cost of \$20,000.

Altogether, the ten-year capital program for parking amounts to \$694,700. No grants or replacement shares have been identified. The legislated ten per cent discount of \$69,470 are netted off of the net municipal costs, leaving \$625,230 as the total DC eligible costs. As this is a new service being examined for DC recovery, there are no DC reserve funds to apply to this program. No post period benefit shares have been identified.

The 2013–2022 DC costs eligible for recovery amount to \$625,230 is allocated 54 percent, or \$337,548, against new residential development, and 46 per cent, or \$287,682, against non-residential development. This yields an unadjusted development charge of \$5.02 per capita and \$0.11 per square metre.

TABLE 3 CASH FLOW ANALYSIS

After cash flow analysis, the residential charge remains at \$5.02 per capita and the non-residential charge increases slightly to \$0.12 per square metre.

The following table summarizes the calculation of the parking development charge.

PARKING SUMMARY						
10-year Hist. Service Level per HH & emp	2013 - 2022		Unadjusted		Adjusted	
	Development-Related Total	Capital Program Net DC Recoverable	Development Charge		Development Charge	
			\$/capita	\$/sq.m	\$/capita	\$/sq.m
\$12.92	\$694,700	\$625,230	\$5.02	\$0.11	\$5.02	\$0.12

CITY OF MARKHAM
INVENTORY OF CAPITAL ASSETS
PARKING

ON STREET PARKING	# of Spaces											UNIT COST (\$/km)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
Parking Meters	-	-	14	17	17	17	17	17	17	17	17	17	\$10,200
Parking Spaces	-	-	158	178	178	178	178	178	178	178	178	178	\$3,225
Land	-	-	158	178	178	178	178	178	178	178	178	178	\$13,600
Total (#)	-	-	330	373	373	373	373	373	373	373	373	373	
Total (\$000)	\$0.0	\$0.0	\$2,801.2	\$3,168.3	\$3,168.3	\$3,168.3	\$3,168.3	\$3,168.3	\$3,168.3	\$3,168.3	\$3,168.3	\$3,168.3	\$3,168.3

OFF STREET PARKING	# of Spaces											UNIT COST (\$/unit)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
Parking Lots													
14 Joseph Street	22	22	22	22	22	22	22	22	22	22	22	22	\$2,500
22 Washington Street	28	28	28	28	28	28	28	28	28	28	28	28	\$2,500
Total (#)	50	50	50	50	50	50	50	50	50	50	50	50	
Total (\$000)	\$125.0	\$125.0	\$125.0	\$125.0	\$125.0	\$125.0	\$125.0	\$125.0	\$125.0	\$125.0	\$125.0	\$125.0	\$125.0

LAND	# of Hectares											UNIT COST (\$/ha)	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012			
Parking Lots													
14 Joseph Street	0.0469	0.0469	0.0469	0.0469	0.0469	0.0469	0.0469	0.0469	0.0469	0.0469	0.0469	0.0469	\$4,497,000
22 Washington Street	0.0434	0.0434	0.0434	0.0434	0.0434	0.0434	0.0434	0.0434	0.0434	0.0434	0.0434	0.0434	\$4,497,000
Total (ha)	0.0903	0.0903	0.0903	0.0903	0.0903	0.0903	0.0903	0.0903	0.0903	0.0903	0.0903	0.0903	
Total (\$000)	\$406.1	\$406.1	\$406.1	\$406.1	\$406.1	\$406.1	\$406.1	\$406.1	\$406.1	\$406.1	\$406.1	\$406.1	\$406.1

APPENDIX B.7
TABLE 1 - PAGE 2

CITY OF MARKHAM
CALCULATION OF SERVICE LEVELS
PARKING

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Historic Households	66,802	70,102	73,565	77,200	79,700	82,281	84,945	87,696	90,535	93,016
Historic Employment	<u>133,921</u>	<u>137,557</u>	<u>141,192</u>	<u>144,828</u>	<u>147,799</u>	<u>150,770</u>	<u>153,741</u>	<u>156,712</u>	<u>159,683</u>	<u>166,125</u>
Total Historic Households & Employ	200,723	207,659	214,757	222,028	227,499	233,051	238,686	244,408	250,218	259,141

INVENTORY SUMMARY (\$000)

On Street Parking	\$0.0	\$0.0	\$2,801.2	\$3,168.3	\$3,168.3	\$3,168.3	\$3,168.3	\$3,168.3	\$3,168.3	\$3,168.3
Off Street Parking	\$125.0	\$125.0	\$125.0	\$125.0	\$125.0	\$125.0	\$125.0	\$125.0	\$125.0	\$125.0
Land	\$406.1	\$406.1	\$406.1	\$406.1	\$406.1	\$406.1	\$406.1	\$406.1	\$406.1	\$406.1
Total (\$000)	\$531.1	\$531.1	\$3,332.2	\$3,699.3	\$3,699.3	\$3,699.3	\$3,699.3	\$3,699.3	\$3,699.3	\$3,699.3

SERVICE LEVEL (\$/HH & emp)

On Street Parking	\$0.00	\$0.00	\$13.04	\$14.27	\$13.93	\$13.59	\$13.27	\$12.96	\$12.66	\$12.23
Off Street Parking	\$0.62	\$0.60	\$0.58	\$0.56	\$0.55	\$0.54	\$0.52	\$0.51	\$0.50	\$0.48
Land	\$2.02	\$1.96	\$1.89	\$1.83	\$1.78	\$1.74	\$1.70	\$1.66	\$1.62	\$1.57
Total (\$/HH & emp)	\$2.65	\$2.56	\$15.52	\$16.66	\$16.26	\$15.87	\$15.50	\$15.14	\$14.78	\$14.28

Average
Service
Level

CITY OF MARKHAM
CALCULATION OF MAXIMUM ALLOWABLE
PARKING

10-Year Funding Envelope Calculation	
10 Year Average Service Level 2003 - 2012	\$12.92
Household & Employment Growth 2013 - 2022	81,878
Maximum Allowable Funding Envelope	\$1,057,869
Less: Uncommitted Excess Capacity	\$351,223
Less: 10% Legislated Reduction	\$70,665
Discounted Maximum Allowable Funding Envelope	\$635,982

Excess Capacity Calculation	
Total Value of Inventory in 2012	\$3,699,329
Inventory Using Average Service Level	\$3,348,106
Excess Capacity	\$351,223
Excess Capacity:	Uncommitted

**APPENDIX B.7
TABLE 2
CITY OF MARKHAM
DEVELOPMENT-RELATED CAPITAL PROGRAM
PARKING**

Project Description	Timing	Gross Project Cost	Grants/ Subsidies/Other Recoveries	Net Municipal Cost	Ineligible Costs		Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs 2013-2022	Post 2022
					Replacement & BTE Shares	10% Reduction				
7.0 PARKING										
7.1 Parking Studies										
7.1.1 Parking Studies	2014	\$ 20,000	\$ -	\$ 20,000	\$ -	\$ 2,000	\$ 18,000	\$ -	\$ 18,000	\$ -
Subtotal Parking Studies		\$ 20,000	\$ -	\$ 20,000	\$ -	\$ 2,000	\$ 18,000	\$ -	\$ 18,000	\$ -
7.2 Parking Equipment										
7.2.1 Parking Meters	2016	\$ 102,000	\$ -	\$ 102,000	\$ -	\$ 10,200	\$ 91,800	\$ -	\$ 91,800	\$ -
7.2.2 Parking Meters	2018	\$ 122,400	\$ -	\$ 122,400	\$ -	\$ 12,240	\$ 110,160	\$ -	\$ 110,160	\$ -
7.2.3 Parking Meters	2020	\$ 102,000	\$ -	\$ 102,000	\$ -	\$ 10,200	\$ 91,800	\$ -	\$ 91,800	\$ -
Subtotal Parking Equipment		\$ 326,400	\$ -	\$ 326,400	\$ -	\$ 32,640	\$ 293,760	\$ -	\$ 293,760	\$ -
7.3 Parking Spaces										
7.3.1 On Street Parking	2016	\$ 135,450	\$ -	\$ 135,450	\$ -	\$ 13,545	\$ 121,905	\$ -	\$ 121,905	\$ -
7.3.2 On Street Parking	2018	\$ 77,400	\$ -	\$ 77,400	\$ -	\$ 7,740	\$ 69,660	\$ -	\$ 69,660	\$ -
7.3.3 On Street Parking	2020	\$ 135,450	\$ -	\$ 135,450	\$ -	\$ 13,545	\$ 121,905	\$ -	\$ 121,905	\$ -
Subtotal Parking Spaces		\$ 348,300	\$ -	\$ 348,300	\$ -	\$ 34,830	\$ 313,470	\$ -	\$ 313,470	\$ -
TOTAL PARKING		\$ 694,700	\$ -	\$ 694,700	\$ -	\$ 69,470	\$ 625,230	\$ -	\$ 625,230	\$ -

Residential Development Charge Calculation	
Residential Share of 2013 - 2022 DC Eligible Costs	\$337,548
10-Year Growth in Population in New Units	67,212
Unadjusted Development Charge Per Capita	\$5.02
Non-Residential Development Charge Calculation	
Non-Residential Share of 2013 - 2022 DC Eligible Costs	\$287,682
10-Year Growth in Square Metres	2,553,322
Unadjusted Development Charge Per Square Metre	\$0.11

2013 - 2022 Net Funding Envelope	\$635,982
Reserve Fund Balance	\$0



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

PARKING	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
OPENING CASH BALANCE	\$0.00	\$42.43	\$77.48	\$119.57	\$39.15	\$77.15	\$5.58	\$40.17	(\$60.80)	(\$31.48)	
2013 - 2022 RESIDENTIAL FUNDING REQUIREMENTS											
- Parking: Non Inflated	\$0.0	\$9.7	\$0.0	\$115.4	\$0.0	\$97.1	\$0.0	\$115.4	\$0.0	\$0.0	\$337.5
- Parking: Inflated	\$0.0	\$9.9	\$0.0	\$122.4	\$0.0	\$107.2	\$0.0	\$132.5	\$0.0	\$0.0	\$372.1
NEW RESIDENTIAL DEVELOPMENT											
- Population Growth in New Units	8,312	8,383	7,401	7,523	6,634	6,295	5,986	5,704	5,450	5,524	67,212
REVENUE											
- DC Receipts: Inflated	\$41.7	\$42.9	\$38.7	\$40.1	\$36.0	\$34.9	\$33.8	\$32.9	\$32.1	\$33.1	\$366.2
INTEREST											
- Interest on Opening Balance	\$0.0	\$1.5	\$2.7	\$4.2	\$1.4	\$2.7	\$0.2	\$1.4	(\$3.3)	(\$1.7)	\$9.0
- Interest on In-year Transactions	\$0.7	\$0.6	\$0.7	(\$2.3)	\$0.6	(\$2.0)	\$0.6	(\$2.7)	\$0.6	\$0.6	(\$2.6)
TOTAL REVENUE	\$42.4	\$45.0	\$42.1	\$42.0	\$38.0	\$35.6	\$34.6	\$31.6	\$29.3	\$31.9	\$372.5
CLOSING CASH BALANCE	\$42.4	\$77.5	\$119.6	\$39.2	\$77.2	\$5.6	\$40.2	(\$60.8)	(\$31.5)	\$0.5	

2013 Adjusted Charge Per Capita **\$5.02**

Allocation of Capital Program	
Residential Sector	54.0%
Non-Residential Sector	46.0%
Rates for 2013	
Inflation Rate:	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%

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

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
PARKING											
OPENING CASH BALANCE	\$0.00	\$33.37	\$60.03	\$96.93	\$28.97	\$66.61	\$12.79	\$51.29	(\$23.72)	\$14.55	
2013 - 2022 NON-RESIDENTIAL FUNDING REQUIREMENTS											
- Parking: Non Inflated	\$0.0	\$8.3	\$0.0	\$98.3	\$0.0	\$82.7	\$0.0	\$98.3	\$0.0	\$0.0	\$287.7
- Parking: Inflated	\$0.0	\$8.4	\$0.0	\$104.3	\$0.0	\$91.4	\$0.0	\$113.0	\$0.0	\$0.0	\$317.1
NON-RESIDENTIAL SPACE GROWTH											
- Growth in Square Metres	273,687	273,687	273,687	273,687	276,968	276,968	276,968	276,968	276,968	73,734	2,553,322
REVENUE											
- DC Receipts: Inflated	\$32.8	\$33.5	\$34.2	\$34.9	\$36.0	\$36.7	\$37.4	\$38.2	\$38.9	\$10.6	\$333.2
INTEREST											
- Interest on Opening Balance	\$0.0	\$1.2	\$2.1	\$3.4	\$1.0	\$2.3	\$0.4	\$1.8	(\$1.3)	\$0.5	\$11.5
- Interest on In-year Transactions	\$0.6	\$0.4	\$0.6	(\$1.9)	\$0.6	(\$1.5)	\$0.7	(\$2.1)	\$0.7	\$0.2	(\$1.7)
TOTAL REVENUE	\$33.4	\$35.1	\$36.9	\$36.4	\$37.6	\$37.5	\$38.5	\$37.9	\$38.3	\$11.3	\$342.9
CLOSING CASH BALANCE	\$33.4	\$60.0	\$96.9	\$29.0	\$66.6	\$12.8	\$51.3	(\$23.7)	\$14.6	\$25.8	

2013 Adjusted Charge Per Square Metre \$0.12

Allocation of Capital Program	
Residential Sector	54.0%
Non-Residential Sector	46.0%
Rates for 2013	
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 C

CITY-WIDE HARD SERVICES DEVELOPMENT-RELATED CAPITAL FORECAST AND DEVELOPMENT CHARGES CALCULATION

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. The scope of works to be funded from the City-wide hard development charges has been expanded from the City's previous practices. The City-wide hard services now include the third travelled lane (including land) in a residential plan of subdivision.

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

As permitted under the *Development Charges Act, 1997* (the DCA), the City-wide hard services are planned for the period from 2013 to 2031 so that the development-related capital costs are apportioned over the longer-term development anticipated within the City's designated urban boundary.

This appendix provides a review of the 2013–2031 development-related capital forecast and the calculation of the development charges for City-wide hard services. Consistent with s. 5. (1) 7 of the DCA, there is no legislated percentage reduction in the eligible development-related capital costs for the provision of these City-wide hard services.

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 provision for engineering and contingencies.

A. CITY-WIDE HARD SERVICES ARE ESTIMATED AT \$969.9 MILLION

Table 1 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 2).

As shown in Table 1, the capital program totals \$969.9 million gross. 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 \$160.0 million.

A further \$70.4 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 City-wide program, \$146.2 million, will either be recovered through area-specific by-laws, or are subsidies received from the Region of York or the Town of Richmond Hill. The remaining capital cost of \$593.3 million is deemed development-related.

Nearly 44 percent of the development-related capital program relates to the provision of structures — \$264.2 million, roads — \$128.3 million, or 22%, properties acquisition - \$72.4 million, or 12 percent, and special projects which are largely streetscaping at \$36.9 million, or 7 per cent. The balance of the DC eligible costs comprise of Illumination (\$17.5 million), intersections (\$17.7 million), sidewalks (\$17.5 million), storm water management (\$14.9 million), studies (\$9.8 million), water (\$7.6 million), and credit agreement projects (\$6.4 million).

B. \$593.3 MILLION IS INCLUDED IN CITY-WIDE DEVELOPMENT CHARGES

Table 1 shows the development-related net capital cost for City-wide hard services of \$593.3 million. However, \$54.9 million is available in the City’s existing related development charges reserve accounts, \$2.9 million from credits already paid, and for projects, or shares of projects, already funded (\$27.4 million) but still in the capital program. Therefore, about \$508.0 million is included in the development charges calculation.

This amount is apportioned between the residential and non-residential sectors based on the weighted average of 62.0% residential and 38.0% non-residential based on shares of anticipated population and employment.

Since the City's intention is to continue to collect the City-wide hard services development charges from residential development based on housing units by type, Table 1 shows that the residential sector's share of \$315.1 million in development-related net capital costs yields an "unadjusted" development charge of \$2,597.26 per capita. After cash flow, this charge increases to \$2,737.00 per capita reflecting the significant front-loading of the capital program (see Table 3, page 1).

The non-residential sector's share of \$192.9 million in development-related net capital costs yields a proposed "unadjusted" development charge of \$222,443 per net hectare (see Table 1). After cash flow, this charge decreases to \$220,450 per net developable hectare (see Table 3, page 2).

**APPENDIX C
TABLE 1
CITY OF MARKHAM
CITY-WIDE HARD DEVELOPMENT-RELATED PROJECT SUMMARY**

Service	Total Gross Cost	Non-Development Charge		Area Specific & Other Development Charges Recovery	City-Wide Development Charge Recoverable	Residential Share of TWH Development Charge Recoverable		Non-Residential Share of TWH Development Charge Recoverable	
		Local Costs	Non-Growth (Benefit to Existing)			%	\$	%	\$
ILLUMINATION	\$ 20,342,819	\$ -	\$ 2,807,825	\$ 3,234	\$ 17,531,760	62.0%	\$ 10,873,372	38.0%	\$ 6,658,388
INTERSECTION	\$ 23,473,902	\$ -	\$ 4,264,174	\$ 1,487,131	\$ 17,722,597	62.0%	\$ 10,991,731	38.0%	\$ 6,730,866
ROADS	\$ 249,544,918	\$ 88,207,313	\$ 5,375,958	\$ 27,654,722	\$ 128,306,925	62.0%	\$ 79,577,235	38.0%	\$ 48,729,691
PROPERTIES ACQUISITION	\$ 105,736,678	\$ 18,471,721	\$ 2,143,387	\$ 12,738,490	\$ 72,383,079	62.0%	\$ 44,892,708	38.0%	\$ 27,490,372
SIDEWALKS	\$ 20,754,481	\$ -	\$ 3,208,889	\$ -	\$ 17,545,592	62.0%	\$ 10,881,951	38.0%	\$ 6,663,641
STORM WATER MANAGEMENT	\$ 49,675,894	\$ 9,248,194	\$ 11,573,084	\$ 13,916,090	\$ 14,938,526	62.0%	\$ 9,265,023	38.0%	\$ 5,673,503
STRUCTURES	\$ 379,152,989	\$ 41,744,653	\$ 807,148	\$ 72,403,324	\$ 264,197,865	62.0%	\$ 163,858,150	38.0%	\$ 100,339,715
STUDIES	\$ 9,762,000	\$ -	\$ -	\$ -	\$ 9,762,000	62.0%	\$ 6,054,490	38.0%	\$ 3,707,510
WATER	\$ 23,332,025	\$ -	\$ 2,503,726	\$ 13,238,286	\$ 7,590,013	62.0%	\$ 4,707,402	38.0%	\$ 2,882,611
SPECIAL PROJECTS	\$ 76,910,344	\$ 2,317,558	\$ 37,730,490	\$ -	\$ 36,862,296	62.0%	\$ 22,862,364	38.0%	\$ 13,999,932
CREDIT AGREEMENT PROJECTS	\$ 11,226,877	\$ -	\$ -	\$ 4,808,284	\$ 6,418,593	62.0%	\$ 3,980,876	38.0%	\$ 2,437,718
TOTAL	\$ 969,912,927	\$ 159,989,439	\$ 70,414,681	\$ 146,249,561	\$ 593,259,246		\$ 367,945,302		\$ 225,313,947

Adjustments			
Less Existing Unallocated Reserve Fund Balances			
Less Credit Agreements Paid			
Projects Funded From Reserves			
TOTAL CITY-WIDE HARD DEVELOPMENT CHARGE RECOVERABLE	\$	\$ 507,994,336	\$ 192,931,185

RESIDENTIAL DEVELOPMENT CHARGE			
Population in New Units 2013 - 2031			
Unadjusted Development Charge Per Capita - Before Cash Flow	\$	121,306	867
NON-RESIDENTIAL DEVELOPMENT CHARGE			
Net Developable Non-Residential Land Area (ha)			
Unadjusted Development Charge Per Net Hectare - Before Cash Flow	\$	2,597.26	222,443

APPENDIX C
TABLE 2 - PAGE 1

CITY OF MARKHAM
DEVELOPMENT CHARGES BACKGROUND STUDY
CITY-WIDE HARD DEVELOPMENT-RELATED PROJECTS

Location	From / To	Timing of Project	Total Gross Cost (\$)	Local - by others Share (%)	Local - by others Cost (\$)	Development-Related Share (%)	Development-Related Cost (\$)	Others Sharing and/or Non-Growth Cost (\$)		
								Gross (\$)	Non-growth (\$)	
ILLUMINATION										
City-wide Illumination requests										
Alden Road	N&W Esna Park to Warden Ave.		\$ 1,075,000	\$	-	35	\$ 376,047	\$ 698,953	\$	\$ 698,953
Church Street	S.S. Country Glen to Bur Oak		\$ 256,133	\$	-	35	\$ 90,278	\$ 165,854	\$	\$ 165,854
Denison St.	S.S. East limit to 9th Line		\$ 70,132	\$	-	35	\$ 24,719	\$ 45,413	\$	\$ 45,413
Denison Street	B.S. Birchmount Rd. to Esna Park Dr.		\$ 341,510	\$	-	35	\$ 120,371	\$ 221,139	\$	\$ 221,139
Don Mills	E.S. N of Simonsion to John Street		\$ 43,832	\$	-	35	\$ 15,449	\$ 28,383	\$	\$ 28,383
Eigin Mills Road	B.S. Highway 404 to 1000 West of McCowan Rd.		\$ 1,966,734	\$	-	100	\$ 1,966,734	\$	\$	\$
Esna Park Road	W.S. Steeles to Alden Road		\$ 204,906	\$	-	35	\$ 72,223	\$ 132,684	\$	\$ 132,684
Esna Park Road	N.S. Alden Road to Woodbine		\$ 153,680	\$	-	35	\$ 54,167	\$ 99,513	\$	\$ 99,513
Fourteenth Avenue	B.S. 300m East of Donald Cousens Pkwy to Hwy 404		\$ 1,030,325	\$	-	100	\$ 1,030,325	\$	\$	\$
Highway 7	B.S. 9th Line to 300m East of Reesor Rd		\$ 631,489	\$	-	100	\$ 631,489	\$	\$	\$
Highway 7	S.S. Cornell Centre Blvd to Donald Cousens Pkwy		\$ 105,197	\$	-	100	\$ 105,197	\$	\$	\$
Highway 7	S.S. Donald Cousens Pkwy to Reesor Road		\$ 119,529	\$	-	100	\$ 119,529	\$	\$	\$
Kirkham Dr.	S.S. Karachi Drive to S limit Lot 4, Con. 8		\$ 99,938	\$	-	100	\$ 99,938	\$	\$	\$
Main St. North	B.S. Major Mackenzie to Donald Cousens Pkwy		\$ 546,417	\$	-	100	\$ 546,417	\$	\$	\$
Main St. South	E.S. Highway 7 to South End		\$ 128,066	\$	-	35	\$ 45,139	\$ 82,927	\$	\$ 82,927
Major Mackenzie	B.S. Markham Rd. to Donald Cousens Pkwy		\$ 324,435	\$	-	100	\$ 324,435	\$	\$	\$
Major Mackenzie	S.S. Donald Cousens Parkway to Ninth Line		\$ 187,831	\$	-	100	\$ 187,831	\$	\$	\$
Donald Cousens Parkway	B.S. Main St. North to OHEPC		\$ 1,737,282	\$	-	100	\$ 1,737,282	\$	\$	\$
Donald Cousens Parkway	E.S. 9th Line to between 9th line and 16th Ave		\$ 170,755	\$	-	100	\$ 170,755	\$	\$	\$
Donald Cousens Parkway	W.S. Highway 407 N. to Hwy 7		\$ 113,964	\$	-	100	\$ 113,964	\$	\$	\$
Donald Cousens Parkway	B.S. Nineteenth Avenue to Warden Ave		\$ 546,417	\$	-	100	\$ 546,417	\$	\$	\$
Miller Extension	B.S. Warden Avenue to Birchmount Rd.		\$ 273,208	\$	-	100	\$ 273,208	\$	\$	\$
Miller Extension	B.S. Birchmount Rd. to Kennedy Rd.		\$ 565,017	\$	-	100	\$ 565,017	\$	\$	\$
Nineteenth Avenue	B.S. Highway 404 to Warden Ave.		\$ 1,013,707	\$	-	100	\$ 1,013,707	\$	\$	\$
Rodick Road	B.S. 14th Avenue to Miller Avenue		\$ 247,937	\$	-	100	\$ 247,937	\$	\$	\$
Sixteenth Avenue	B.S. Highway 404 to Cachet Woods		\$ 83,281	\$	-	100	\$ 83,281	\$	\$	\$
Sixteenth Avenue	S.S. Cachet Woods to Woodbine		\$ 113,964	\$	-	35	\$ 40,168	\$ 73,795	\$	\$ 73,795
Sixteenth Avenue	N.S. Warden Ave. to Kennedy Rd.		\$ 273,208	\$	-	35	\$ 96,297	\$ 176,911	\$	\$ 176,911
Sixteenth Avenue	S.S. Markham Rd to 300m westerly		\$ 52,599	\$	-	35	\$ 18,539	\$ 34,059	\$	\$ 34,059
Steeles Avenue	N.S. Markham Rd to OHEPC		\$ 648,107	\$	-	100	\$ 648,107	\$	\$	\$
Reesor Rd.	E.S. Highway 7 to 1000m North of Highway 7		\$ 170,755	\$	-	100	\$ 170,755	\$	\$	\$
Reesor Rd.	B.S. Highway 7 to Highway 407		\$ 290,284	\$	-	100	\$ 290,284	\$	\$	\$
Reesor Rd.	W.S. Highway 407 to 14th Avenue		\$ 105,197	\$	-	100	\$ 105,197	\$	\$	\$
Victoria Park	E.S. Denison to Steeles		\$ 196,368	\$	-	35	\$ 69,213	\$ 127,155	\$	\$ 127,155
Warden Avenue	B.S. 16th Ave. to Major Mackenzie Dr.		\$ 546,417	\$	-	100	\$ 546,417	\$	\$	\$
Woodbine Avenue	E.S. N. limit of Cathedral to 19th Avenue		\$ 284,307	\$	-	100	\$ 284,307	\$	\$	\$
Woodbine Avenue	E.S. Buttonville Crescent S to N		\$ 52,599	\$	-	35	\$ 18,539	\$ 34,059	\$	\$ 34,059
Woodbine Avenue	E.S. Hillmount Rd. to Major Mackenzie Dr		\$ 153,680	\$	-	35	\$ 54,167	\$ 99,513	\$	\$ 99,513
Woodbine Avenue	W.S. 16th Ave to Hillmount Rd.		\$ 136,604	\$	-	100	\$ 136,604	\$	\$	\$
Yorktech Drive	B.S. Rodick Rd. to Enterprise Dr.		\$ 512,266	\$	-	100	\$ 512,266	\$	\$	\$
Clegg Road Extension	S.S. East of Rodick to Town-Centre		\$ 70,132	\$	-	100	\$ 70,132	\$	\$	\$



APPENDIX C
TABLE 2 - PAGE 2

CITY OF MARKHAM
DEVELOPMENT CHARGES BACKGROUND STUDY
CITY-WIDE HARD DEVELOPMENT-RELATED PROJECTS

Location	From / To	Timing of Project	Total Gross Cost (\$)	Local - by others Share (%)	Local - by others Cost (\$)	Development-Related Share (%)	Development-Related Cost (\$)	Others Sharing and/or Non-Growth Cost	
								Gross (\$)	others (\$)
ILLUMINATION									
Ninth Line	E.S. OHEPC to 14th Avenue		\$ 230,520	\$	-	100	\$ 230,520	-	\$ -
Ninth Line	B.S. 16th Ave. to Major Mackenzie		\$ 512,266	\$	-	100	\$ 512,266	-	\$ -
Ninth Line	E.S. Church St. to Markham by-pass		\$ 256,133	\$	-	100	\$ 256,133	-	\$ -
White Belt	B.S. Warden, Kennedy		\$ 1,966,734	\$	-	100	\$ 1,966,734	-	\$ -
John Street	N.S. 200m West of Alleen Rd to Woodbine		\$ 435,426	\$	-	100	\$ 435,426	-	\$ -
E.P Street Lighting	B.S. 323,400		\$ 323,400	\$	-	-	-	\$ 323,400	\$ 320,166
Rodick Extension	B.S. Riviera Drive to Esna Park Drive		\$ 187,831	\$	-	35	\$ 65,705	\$ 122,125	\$ -
Main St. North	W.S. N. 16th Ave to Major Mackenzie		\$ 256,133	\$	-	100	\$ 256,133	-	\$ -
Main St. North	E.S. Parkway Avenue to 16th Avenue		\$ 204,906	\$	-	35	\$ 71,679	\$ 133,228	\$ -
Main St. South	B.S. Highway 7 to South End		\$ 256,133	\$	-	35	\$ 89,598	\$ 166,535	\$ -
	Total - Illumination		\$ 20,342,819	\$	-	\$	17,531,760	\$ 2,811,059	\$ 3,234
									\$ 2,807,825
INTERSECTION									
City-wide Intersection Improvements			\$ 1,944,930	\$	-	100	\$ 1,944,930	-	\$ -
City-wide Intersection Pedestrian Signal (Lump Sum) - 5			\$ 645,553	\$	-	100	\$ 645,553	-	\$ -
404 North employment Land N-S Road Internal Traffic Signals (3)			\$ 612,021	\$	-	100	\$ 612,021	-	\$ -
Birchmount Extension	at Miller Avenue		\$ 209,622	\$	-	100	\$ 209,622	-	\$ -
Apple Creek Boulevard	at McIntosh Drive		\$ 209,622	\$	-	35	\$ 73,328	\$ 136,294	\$ 136,294
Apple Creek Boulevard	at John Button Boulevard		\$ 209,622	\$	-	35	\$ 73,328	\$ 136,294	\$ 136,294
Apple Creek Boulevard	at Town Centre / Hollingham		\$ 209,622	\$	-	35	\$ 73,328	\$ 136,294	\$ 136,294
Brimley Road	at Cardiff / Worthing		\$ 209,622	\$	-	35	\$ 73,328	\$ 136,294	\$ 136,294
Brimley Road	at Randall Avenue		\$ 209,622	\$	-	35	\$ 73,328	\$ 136,294	\$ 136,294
Birchmount Road	at Highgate Drive		\$ 209,622	\$	-	35	\$ 73,328	\$ 136,294	\$ 136,294
Birchmount Road	at Harvest Moon Drive		\$ 209,622	\$	-	35	\$ 73,328	\$ 136,294	\$ 136,294
Future Signalized Intersections (5)	at Wismer		\$ 1,020,036	\$	-	100	\$ 1,020,036	-	\$ -
Future Signalized Intersections (5)	at Berzcy		\$ 1,020,036	\$	-	100	\$ 1,020,036	-	\$ -
Future Signalized Intersections (4)	at Greensborough		\$ 816,029	\$	-	100	\$ 816,029	-	\$ -
Future Signalized Intersections (6)	at Cornell		\$ 1,207,198	\$	-	100	\$ 1,207,198	-	\$ -
Future Signalized Intersections (2)	at Cathedraltown		\$ 419,244	\$	-	100	\$ 419,244	-	\$ -
Future Signalized Intersections (16)	at White Belt		\$ 3,219,195	\$	-	100	\$ 3,219,195	-	\$ -
Carlton Road	at Village Parkway		\$ 209,622	\$	-	35	\$ 73,368	\$ 136,254	\$ 136,254
Carlton Road	at Manhattan Drive		\$ 209,622	\$	-	35	\$ 73,368	\$ 136,254	\$ 136,254
Church Street	at Wooten Way		\$ 209,622	\$	-	35	\$ 73,368	\$ 136,254	\$ 136,254
Commerce Valley Drive	at Leslie Street		\$ 540,960	\$	-	35	\$ 189,336	\$ 351,624	\$ 351,624
Denison Street	at Marydale Drive		\$ 209,622	\$	-	100	\$ 209,622	-	\$ -
Doncaster Avenue	at Henderson Avenue		\$ 540,960	\$	-	35	\$ 189,336	\$ 351,624	\$ 351,624
Enterprise Drive	at Sciberras Road		\$ 209,622	\$	-	100	\$ 209,622	-	\$ -
Fairburn Drive	at First Markham Place		\$ 209,622	\$	-	35	\$ 73,328	\$ 136,294	\$ 136,294
Fourteenth Avenue	at Rivera Drive (east of Rodick)		\$ 209,622	\$	-	35	\$ 73,368	\$ 136,254	\$ 136,254
Fourteenth Avenue	at Mid Block (east of Woodbine)		\$ 209,622	\$	-	35	\$ 73,368	\$ 136,254	\$ 136,254
Green Lane	at Alleen / Willowbrook		\$ 540,960	\$	-	35	\$ 189,336	\$ 351,624	\$ 351,624



APPENDIX C
TABLE 2 - PAGE 3

CITY OF MARKHAM
DEVELOPMENT CHARGES BACKGROUND STUDY
CITY-WIDE HARD DEVELOPMENT-RELATED PROJECTS

Location	From / To	Timing of Project	Total		Local - by others		Development-Related Cost (\$)	Others Sharing and/or Non-Growth Cost	
			Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)		Gross (\$)	Non-growth (\$)
INTERSECTION									
Henderson Street	at John Street		\$ 209,622	\$ -	35%	\$ 73,328	\$ 136,294	\$ -	\$ 136,294
Honda Blvd.	at 19th Avenue		\$ 209,622	\$ -	100%	\$ 209,622	\$ -	\$ -	\$ -
Hood Road	at McPherson Road		\$ 209,622	\$ -	35%	\$ 73,328	\$ 136,294	\$ -	\$ 136,294
Joseph / Washington / George Intersection Improvements			\$ 540,960	\$ -	-	\$ -	\$ 540,960	\$ -	\$ 540,960
Markham Centre Turning Lane & Unionville Traffic Calming			\$ 540,960	\$ -	100%	\$ 540,960	\$ -	\$ -	\$ -
Main St. North	at Battista Perri Dr		\$ 209,622	\$ -	100%	\$ 209,622	\$ -	\$ -	\$ -
Markland Street	at Hillmount Road		\$ 209,622	\$ -	100%	\$ 209,622	\$ -	\$ -	\$ -
Midland Avenue	at Old Kennedy Road		\$ 209,622	\$ -	100%	\$ 209,622	\$ -	\$ -	\$ -
Midland Avenue	at Steeles Avenue		\$ 209,622	\$ -	100%	\$ 209,622	\$ -	\$ -	\$ -
Ramona Blvd.	at Wooten Way		\$ 209,622	\$ -	35%	\$ 73,368	\$ 136,254	\$ -	\$ 136,254
Rival Avenue	at Copper Creek		\$ 209,622	\$ -	100%	\$ 209,622	\$ -	\$ -	\$ -
Rodick Road	at East-west collection (Miller)		\$ 209,622	\$ -	100%	\$ 209,622	\$ -	\$ -	\$ -
Rodick Road	at Clegg Road		\$ 209,622	\$ -	100%	\$ 209,622	\$ -	\$ -	\$ -
Rodick Road	at Cox Blvd.		\$ 209,622	\$ -	100%	\$ 209,622	\$ -	\$ -	\$ -
Rougeside Promenade	at Verclaire Gate		\$ 209,622	\$ -	100%	\$ 209,622	\$ -	\$ -	\$ -
Rougeside Promenade	at Birchmount Extension		\$ 209,622	\$ -	100%	\$ 209,622	\$ -	\$ -	\$ -
Rougeside Promenade	at Sciberras Road		\$ 209,622	\$ -	100%	\$ 209,622	\$ -	\$ -	\$ -
Rodick Road	at Macrill / Rachel		\$ 209,622	\$ -	100%	\$ 209,622	\$ -	\$ -	\$ -
Village Gate	at Calvert Road		\$ 209,622	\$ -	35%	\$ 73,368	\$ 136,254	\$ -	\$ 136,254
Victoria Park and Steelcase Intersection Improvements			\$ 540,960	\$ -	35%	\$ 189,336	\$ 351,624	\$ -	\$ 351,624
White's Hill Avenue	at Cornell Centre Boulevard		\$ 987,131	\$ -	100%	\$ 209,622	\$ -	\$ 987,131	\$ -
E.P Intersections			\$ 500,000	\$ 50%	50%	\$ 250,000	\$ 250,000	\$ 250,000	\$ -
Improvement - Valleywood and Renfrew Drive			\$ 500,000	\$ 50%	50%	\$ 250,000	\$ 250,000	\$ 250,000	\$ -
Buttonville Intersection Improvements	Valleywood Dr and Renfrew Dr		\$ 209,622	\$ -	100%	\$ 209,622	\$ -	\$ -	\$ -
407 WB exit ramp to E.P			\$ -	\$ -	-	\$ -	\$ -	\$ -	\$ -
Total - Intersection			\$ 23,473,902	\$ -	\$ 17,722,597	\$ 5,751,305	\$ 1,487,131	\$ 4,264,174	\$ -
ROADS									
Allstate Parkway Extension	to 16th Ave	2016	\$ 3,426,885	\$ 2,937,330	86%	\$ 489,555	\$ -	\$ -	\$ -
Langstaff (2)	North & South	2016	\$ 14,898,095	\$ 12,769,796	86%	\$ 2,128,299	\$ -	\$ -	\$ -
Miller Ave	Woodbine Ave to Rodick Rd	2013	\$ 4,460,390	\$ -	100%	\$ 4,460,390	\$ -	\$ -	\$ -
Miller Ave	Warden Ave to Birchmount Rd	2014	\$ 3,046,120	\$ -	100%	\$ 3,046,120	\$ -	\$ -	\$ -
Miller Ave	Birchmount Rd to Kennedy	2021	\$ 6,382,684	\$ -	100%	\$ 6,382,684	\$ -	\$ -	\$ -
Corvette Dr	Kennedy Rd to Old Kennedy Ave	2017	\$ 3,046,120	\$ 2,610,960	86%	\$ 435,160	\$ -	\$ -	\$ -
Midland Ave	Steeles Ave to Old Kennedy Rd	2017	\$ 1,713,443	\$ 1,468,665	86%	\$ 244,778	\$ -	\$ -	\$ -
Denison St.	Bethany Street to 400m West of 9th Line	2017	\$ 4,188,415	\$ 3,590,070	86%	\$ 598,345	\$ -	\$ -	\$ -
Denison St.	400m West of 9th Line to 9th Line	2017	\$ 1,523,060	\$ -	100%	\$ 1,523,060	\$ -	\$ -	\$ -
Kirkham Dr	Karachi Dr. To S limit of Lot 4, Con. 8	2015	\$ 2,170,361	\$ -	100%	\$ 2,170,361	\$ -	\$ -	\$ -
Markham Rd.	Major Mackenzie to Donald Cousens Parkway	2015	\$ 3,046,120	\$ -	90%	\$ 2,741,508	\$ 304,612	\$ -	\$ 304,612
Yorktech Extension	Rodick Rd to Warden Ave	2018	\$ 5,631,780	\$ -	100%	\$ 5,631,780	\$ -	\$ -	\$ -
Rivis Rd	YMCA Blvd to Markham Live	2017	\$ 1,523,060	\$ 1,305,480	86%	\$ 217,580	\$ -	\$ -	\$ -
Rougeside Promenade	Warden Ave to Birchmount Rd	2014	\$ 3,331,694	\$ 2,855,738	86%	\$ 475,956	\$ -	\$ -	\$ -



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CITY OF MARKHAM
DEVELOPMENT CHARGES BACKGROUND STUDY
CITY-WIDE HARD DEVELOPMENT-RELATED PROJECTS

Location	From / To	Timing of Project	Total		Local - by others		Development-Related Cost (\$)	Others Sharing and/or Non-Growth Cost	
			Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)		Gross others Cost (\$)	Non-growth (\$)
ROADS									
Cedar Avenue Extension	to Town of Richmond Hill	2020	\$ 1,903,825	50%	\$ 951,913	50%	\$ 951,913	\$ -	\$ -
Commerce Valley East and West Widening		2020	\$ 6,570,410	\$ -	\$ -	90%	\$ 5,913,369	\$ 657,041	\$ 657,041
Rodick Rd	14th Ave to Miller	2013	\$ 2,764,354	\$ -	\$ -	90%	\$ 2,487,919	\$ 276,435	\$ 276,435
Sciberas Dr	Highway 7 to Rouge River	2019	\$ 2,132,284	\$ -	\$ -	14%	\$ 304,612	\$ 1,827,672	\$ -
Reesor Rd Reconstruction	14th Avenue to 1000m N of Highway 7	2022	\$ 4,830,956	\$ -	\$ -	90%	\$ 4,347,860	\$ 483,096	\$ 483,096
19th Ave Reconstruction	Highway 404 to Warden Ave	2016	\$ 5,930,130	\$ -	\$ -	90%	\$ 5,337,117	\$ 593,013	\$ 593,013
Elgin Mills Reconstruction	Highway 404 to 1000m East of Kennedy Rd.	2018	\$ 11,884,106	\$ -	\$ -	90%	\$ 10,695,695	\$ 1,188,411	\$ 1,188,411
White Belt	Major Collectors	2017-2026	\$ 58,825,536	86%	\$ 50,421,888	14%	\$ 8,403,648	\$ -	\$ -
14th Ave Reconstruction	Alden Rd to Hwy 404	2018	\$ 5,323,911	\$ -	\$ -	90%	\$ 4,791,520	\$ 532,391	\$ 532,391
Woodbine Urbanize	By-pass to Hamlet (S end)	2023	\$ 1,087,900	\$ -	\$ -	90%	\$ 979,110	\$ 108,790	\$ 108,790
Woodbine Urbanize	Hamlet (N end) to by-pass	2016	\$ 551,540	\$ -	\$ -	90%	\$ 496,386	\$ 55,154	\$ 55,154
Verclaire	Highway 7 to Rouge River	2019	\$ 1,142,295	86%	\$ 979,110	14%	\$ 163,185	\$ -	\$ -
Cachet Woods Crescent	Highway 7 to Rouge River	2015	\$ 1,903,825	86%	\$ 1,631,850	14%	\$ 271,975	\$ -	\$ -
Old Kennedy Road Improvements			\$ 1,332,678	\$ -	\$ -	\$ -	\$ -	\$ 1,332,678	\$ -
Enterprise Drive, local (Ph. I)	Rivas Road to GO Line	2013	\$ 1,067,976	\$ -	\$ -	14%	\$ 149,517	\$ 918,459	\$ 918,459
Enterprise Drive (Ph. II)	Rivas Road to Main Street S	2013	\$ 2,172,736	\$ -	\$ -	14%	\$ 304,183	\$ 1,868,553	\$ 1,868,553
E.P Remaining Roadworks		2017	\$ 18,008,883	\$ -	\$ -	\$ -	\$ -	\$ 18,008,883	\$ -
Rivas Drive (N-S Connection Road), local		2013	\$ 565,399	100%	\$ 565,399	\$ -	\$ -	\$ -	\$ -
YDSS Relocation		2018	\$ 22,000,000	\$ -	\$ -	100%	\$ 22,000,000	\$ -	\$ -
YMCA BLVD		2015	\$ 1,884,787	\$ -	\$ -	100%	\$ 1,884,787	\$ -	\$ -
Helen Ave. urbanize including sidewalk on N.S. Stage IV & V		2013	\$ 607,500	\$ -	\$ -	\$ -	\$ -	\$ 607,500	\$ -
Urbanize existing Helen Avenue (east of Kennedy Road)		2013	\$ 220,240	\$ -	\$ -	\$ -	\$ -	\$ 220,240	\$ 37,000
Helen Avenue	N.S. Relocation of existing poles	2013	\$ 47,558	\$ -	\$ -	\$ -	\$ -	\$ 47,558	\$ -
City-wide Soil Decommission / Demolitions		2017	\$ 2,719,750	\$ -	\$ -	100%	\$ 2,719,750	\$ -	\$ -
City-wide Miscellaneous		2017	\$ 3,500,000	\$ -	\$ -	100%	\$ 3,500,000	\$ -	\$ -
Birchmount Road, 4th lane	Highway 7 to Rouge River	2013	\$ 1,754,078	86%	\$ 1,503,495	14%	\$ 250,583	\$ -	\$ -
Birchmount Road, 4th lane	Enterprise to Rouge River	2013	\$ 2,533,668	86%	\$ 2,171,715	14%	\$ 361,953	\$ -	\$ -
Main St. South, Markham	Highway 407 to Highway 7	2013	\$ 3,713,033	\$ -	\$ -	90%	\$ 3,341,730	\$ 371,303	\$ 371,303
Main St. North, Markham	16th Ave. to Major Mackenzie Drive	2013	\$ 7,687,120	\$ -	\$ -	90%	\$ 6,918,408	\$ 768,712	\$ 768,712
Rodick Extension	Riviera Drive to 14th Ave	2013	\$ 5,420,356	\$ -	\$ -	100%	\$ 5,420,356	\$ -	\$ -
Markland Extension	to Cachet Woods Crescent	2015	\$ 2,851,223	86%	\$ 2,443,905	14%	\$ 407,318	\$ -	\$ -
Church Street	9th Line to Bur Oak	2014	\$ 1,720,860	\$ -	\$ -	100%	\$ 1,720,860	\$ -	\$ -
Alistate Pkwy widening	Valleywood Drive to Buttonville South property line	2016	\$652,500	\$ -	\$ -	50%	\$ 326,250	\$ 326,250	\$ -
Honda Blvd	Woodbine By-pass to 19th Ave	2013	\$2,956,250	\$ -	\$ -	14%	\$ 422,321	\$ 2,533,929	\$ -
Langstaff Road	Bayview Ave to Southern limit of Area 2	2018	\$1,275,721	\$ -	\$ -	100%	\$ 1,275,721	\$ -	\$ -
Centurion Drive	Alistate to Woodbine	2013	\$ 1,613,306	\$ -	\$ -	100%	\$ 1,613,306	\$ -	\$ -
Total - Roads			\$ 249,544,918	\$ 88,207,313	\$ 128,306,925	\$ 27,654,722	\$ 33,030,680	\$ 5,375,958	\$ 5,375,958



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CITY OF MARKHAM
DEVELOPMENT CHARGES BACKGROUND STUDY
CITY-WIDE HARD DEVELOPMENT-RELATED PROJECTS

Location	From / To	Timing of Project	Total Gross Cost (\$)	Local - by others Share (%)	Cost (\$)	Development-Related Share (%)	Cost (\$)	Others Sharing and/or Non-Growth Cost	
								Gross (\$)	others (\$)
PROPERTIES REQUISITION									
ROADS PROPERTIES REQUISITION									
Cedar Avenue Extension	to Town of Richmond Hill	2020	\$ 3,023,002	50%	\$ 1,511,501	50%	\$ 1,511,501	\$ -	\$ -
Miller Ave	Warden to Kennedy	2014	\$ 11,576,458	\$ -	\$ -	100%	\$ 11,576,458	\$ -	\$ -
City-wide properties Acquisition request and Business Losses		2016	\$ 4,945,000	\$ -	\$ -	100%	\$ 4,945,000	\$ -	\$ -
Langstaff Road	North and South Road	2016	\$ 6,544,256	86%	\$ 5,609,363	14%	\$ 934,894	\$ -	\$ -
Gorvette Drive	Denison to Old Kennedy Ave	2017	\$ 668,767	86%	\$ 573,229	14%	\$ 95,538	\$ -	\$ -
Midland Ave	Steeles Ave to Old Kennedy Ave	2017	\$ 1,484,019			14%	\$ 212,003	\$ 1,272,016	\$ -
Denison Street	Bethany Street to 400m West of 9th Line	2017	\$ 1,410,734	86%	\$ 1,209,201	14%	\$ 201,533	\$ -	\$ -
Denison Street	400m West of 9th Line to 9th Line	2017	\$ 4,445,951	\$ -	\$ -	100%	\$ 4,445,951	\$ -	\$ -
Denison Street Extension Structure over Rouge River		2017	\$ 650,190	\$ -	\$ -	100%	\$ 650,190	\$ -	\$ -
York Tech Extension	Rodick to Warden	2018	\$ 14,635,121	\$ -	\$ -	100%	\$ 14,635,121	\$ -	\$ -
Rodick Rd	14th Ave to Miller	2013	\$ 477,204	\$ -	\$ -	90%	\$ 429,484	\$ 47,720	\$ -
Commerce Valley East and West Widening		2020	\$ 3,847,457	\$ -	\$ -	90%	\$ 3,462,712	\$ 384,746	\$ -
Cachet Woods Crescent	Extension	2015	\$ 477,204	86%	\$ 409,032	14%	\$ 68,172	\$ -	\$ -
19th Ave Reconstruction	Hwy 404 to Warden Ave	2016	\$ 2,980,253	\$ -	\$ -	90%	\$ 2,682,227	\$ 298,025	\$ -
Elgin Mills Reconstruction	Hwy 404 to 1000m East of Kennedy Rd	2018	\$ 3,029,109	\$ -	\$ -	90%	\$ 2,726,198	\$ 302,911	\$ -
White Belt Roads		2017	\$ 10,685,961	86%	\$ 9,159,395	14%	\$ 1,526,566	\$ -	\$ -
19th Avenue Interchange		2029	\$ 3,664,245	\$ -	\$ -	100%	\$ 3,664,245	\$ -	\$ -
Hwy 404 Mid-Block crossing - Buttonville		2018	\$ 4,000,000	\$ -	\$ -	33%	\$ 1,333,200	\$ 2,666,800	\$ -
Allstate Pkwy	Extension to 16th Ave	2016	\$ 300,000	\$ -	\$ -	14%	\$ 42,857	\$ 257,143	\$ -
Properties Acquisition for Sidewalks									
R.O.W requisition for sidewalks construction		2013-2031	\$ 1,526,769	\$ -	\$ -	35%	\$ 538,135	\$ 988,633	\$ -
Structures Mid-Blocks and Ramps									
Mid-block Crossing Hwy 404 Easements	Hwy 7 to 16th Avenue	2013	\$ 5,851,200			33%	\$ 1,950,205	\$ 3,900,995	\$ -
Mid-block Crossing Hwy 404 property	Major Mackenzie to Elgin Mills	2019	\$ 1,709,981			33%	\$ 569,937	\$ 1,140,044	\$ -
Mid-block Crossing Hwy 404 property	16th Ave to Major Mackenzie	2025	\$ 2,442,830			33%	\$ 814,269	\$ 1,628,561	\$ -
Mid-block Crossing Hwy 404 property - Elgin Mills t		2027	\$ 2,809,255			33%	\$ 936,325	\$ 1,872,930	\$ -
Ramps to Hwy 404 Property	Elgin Mills Road	2026	\$ 1,908,461		\$ -	100%	\$ 1,908,461	\$ -	\$ -
Ramps to Hwy 404 Property	Highway 7	2013	\$ 4,587,177		\$ -	100%	\$ 4,587,177	\$ -	\$ -
Ramps to Hwy 404 Property	Major Mackenzie	2025	\$ 1,374,092		\$ -	100%	\$ 1,374,092	\$ -	\$ -
Main St. North, properties	16th Ave. to Markham Bypass	2013	\$ 1,213,516		\$ -	90%	\$ 1,092,164	\$ 121,352	\$ -
Main St. south, Markham additional ROW		2013	\$ 2,108,811		\$ -	100%	\$ 2,108,811	\$ -	\$ -
Rodick Extension Properties	14th Avenue to Esna Park Drive	2013	\$ 431,200		\$ -	100%	\$ 431,200	\$ -	\$ -
Birchmount Road, 3m ROW	Highway 7 to Rouge River	2013	\$ 928,456		\$ -	100%	\$ 928,456	\$ -	\$ -
Total - Properties			\$ 105,736,678		\$ 18,471,721		\$ 72,383,079	\$ 14,881,877	\$ 2,143,387



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CITY OF MARKHAM
DEVELOPMENT CHARGES BACKGROUND STUDY
CITY-WIDE HARD DEVELOPMENT-RELATED PROJECTS

Location	From / To	Timing of Project	Total		Local - by others		Development-Related Cost (\$)	Others Sharing and/or Non-Growth Cost		
			Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)		Gross (\$)	others Cost (\$)	Non-growth (\$)
SIDEWALKS										
Sidewalks on Regional Structures			\$ 1,720,000	\$	-	35	\$ 606,243	\$ 1,113,757	\$ -	\$ 1,113,757
Sidewalks construction crossing Highway / water course			\$ 1,612,500	\$	-	35	\$ 568,353	\$ 1,044,147	\$ -	\$ 1,044,147
Miscellaneous new sidewalks			\$ 1,075,000	\$	-	100	\$ 1,075,000	\$ -	\$ -	\$ -
Denison St.	S.S. East Limit to Ninth Line		\$ 43,700	\$	-	100	\$ 43,700	\$ -	\$ -	\$ -
Donald Cousens Parkway	S.S. Highway 7 to 500m North of Highway 7		\$ 65,960	\$	-	100	\$ 65,960	\$ -	\$ -	\$ -
Donald Cousens Parkway	N.S. Castlemore Ave to Ninth Line		\$ 115,630	\$	-	100	\$ 115,630	\$ -	\$ -	\$ -
Donald Cousens Parkway	B.S. Main St. North to Major Mackenzie Dr.		\$ 346,891	\$	-	100	\$ 346,891	\$ -	\$ -	\$ -
Donald Cousens Parkway	W.S. Ninth Line to Box Grove Bypass		\$ 45,230	\$	-	100	\$ 45,230	\$ -	\$ -	\$ -
Donald Cousens Parkway	B.S. Ninth Line to Highway 407		\$ 557,306	\$	-	100	\$ 557,306	\$ -	\$ -	\$ -
Donald Cousens Parkway	B.S. Nineteenth Avenue to Warden Ave		\$ 352,397	\$	-	100	\$ 352,397	\$ -	\$ -	\$ -
Elgin Mills Road	B.S. Highway 404 to Warden Avenue		\$ 800,234	\$	-	100	\$ 800,234	\$ -	\$ -	\$ -
Elgin Mills Road	S.S. Warden Avenue to 1000m East of Kennedy Rd.		\$ 385,434	\$	-	100	\$ 385,434	\$ -	\$ -	\$ -
Esna Park Road	W.S. IBM to Alden Road		\$ 194,746	\$	-	35	\$ 68,641	\$ 126,104	\$ -	\$ 126,104
Fourteenth Avenue	B.S. Ninth Line to 300m east of Donald Cousens Pky		\$ 398,282	\$	-	100	\$ 398,282	\$ -	\$ -	\$ -
Highway 7	B.S. 9th to Donald Cousens Parkway		\$ 900,264	\$	-	100	\$ 900,264	\$ -	\$ -	\$ -
Highway 7	S.S. Fairburn Dr. to Rodick Road		\$ 119,008	\$	-	100	\$ 119,008	\$ -	\$ -	\$ -
Highway 7	N.S. Montgomery Dr. to Rodick Rd.		\$ 119,008	\$	-	50	\$ 59,504	\$ 59,504	\$ -	\$ 59,504
Highway 7	B.S. Rodick Road to Warden Ave.		\$ 432,757	\$	-	100	\$ 432,757	\$ -	\$ -	\$ -
Highway 7	S.S. Warden Avenue to CNR		\$ 367,844	\$	-	100	\$ 367,844	\$ -	\$ -	\$ -
Highway 7	N.S. Warden Avenue to CNR		\$ 367,844	\$	-	100	\$ 367,844	\$ -	\$ -	\$ -
Highway 7	S.S. Yonge St. to Bayview Ave.		\$ 324,576	\$	-	100	\$ 324,576	\$ -	\$ -	\$ -
Kirkham Dr.	S.S. Karachi Drive to S limit Lot 4, Con. 8		\$ 75,194	\$	-	100	\$ 75,194	\$ -	\$ -	\$ -
Kennedy Road	E.S. Highway 407 Crossing		\$ 129,830	\$	-	100	\$ 129,830	\$ -	\$ -	\$ -
Main St. north, Markham	B.S. Major Mackenzie to Donald Cousens Parkway		\$ 256,956	\$	-	100	\$ 256,956	\$ -	\$ -	\$ -
Major Mackenzie	N.S. Woodbine Ave. to Donald Cousens Parkway		\$ 900,264	\$	-	100	\$ 900,264	\$ -	\$ -	\$ -
Major Mackenzie	B.S. Markland St to Highway 404		\$ 115,630	\$	-	100	\$ 115,630	\$ -	\$ -	\$ -
Major Mackenzie	S.S. Donald Cousens Parkway to Ninth Line		\$ 141,326	\$	-	100	\$ 141,326	\$ -	\$ -	\$ -
Markham Road	W.S. Princess St. to Highway 7		\$ 115,630	\$	-	35	\$ 40,756	\$ 74,874	\$ -	\$ 74,874
Markham Road	E.S. S limit of Area 7 to 200m north		\$ 33,327	\$	-	100	\$ 33,327	\$ -	\$ -	\$ -
McCowan Road	W.S. Bur Oak to Major Mackenzie		\$ 170,402	\$	-	100	\$ 170,402	\$ -	\$ -	\$ -
McCowan Road	E.S. Bur Oak to Major Mackenzie		\$ 170,402	\$	-	100	\$ 170,402	\$ -	\$ -	\$ -
Miller Avenue	S.S. Woodbine to Rodick		\$ 113,325	\$	-	100	\$ 113,325	\$ -	\$ -	\$ -
Miller Extension	S.S. Warden to Birchmount Rd.		\$ 105,536	\$	-	100	\$ 105,536	\$ -	\$ -	\$ -
Miller Extension	S.S. Birchmount Rd. to Kennedy Rd.		\$ 218,413	\$	-	100	\$ 218,413	\$ -	\$ -	\$ -
Nineteenth Avenue	B.S. Highway 404 to Warden Avenue		\$ 762,723	\$	-	100	\$ 762,723	\$ -	\$ -	\$ -
Ninth Line	B.S. Bur Oak to Donald Cousens Parkway		\$ 65,960	\$	-	100	\$ 65,960	\$ -	\$ -	\$ -
Ninth Line	W.S. Donald Cousens Parkway to Major Mackenzie		\$ 154,174	\$	-	100	\$ 154,174	\$ -	\$ -	\$ -
Ninth Line	B.S. Steeles to Ridgeway Dr.		\$ 585,171	\$	-	100	\$ 585,171	\$ -	\$ -	\$ -
Rodick Road	B.S. 14th Avenue to Miller Avenue		\$ 195,433	\$	-	100	\$ 195,433	\$ -	\$ -	\$ -
Sixteenth Avenue	B.S. Bur Oak to Markham By-Pass		\$ 900,264	\$	-	100	\$ 900,264	\$ -	\$ -	\$ -
Sixteenth Avenue	N.S. Warden Ave. to York Downs		\$ 259,661	\$	-	35	\$ 91,522	\$ 168,139	\$ -	\$ 168,139
Sixteenth Avenue	N.S. 9th Line to Bur Oak Ave.		\$ 108,313	\$	-	100	\$ 108,313	\$ -	\$ -	\$ -
Sixteenth Avenue	S.S. 9th Line to Bur Oak Ave.		\$ 205,565	\$	-	100	\$ 205,565	\$ -	\$ -	\$ -

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CITY OF MARKHAM
DEVELOPMENT CHARGES BACKGROUND STUDY
CITY-WIDE HARD DEVELOPMENT-RELATED PROJECTS

Location	From / To	Timing of Project	Total		Local - by others		Development-Related Cost (\$)	Others Sharing and/or Non-Growth Cost		
			Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)		Gross (\$)	Non-growth (\$)	
SIDEWALKS										
Warden Avenue	B.S. 16th Ave. to Major Mackenzie		\$ 340,805		\$ -	35	\$ 120,122	\$ 220,682	\$ -	\$ 220,682
Woodbine Ave	B.S. Highway 407 Crossing		\$ 205,565		\$ -	100	\$ 205,565	\$ -	\$ -	\$ -
Woodbine Avenue	W.S. N. of Cathedral to 19th Avenue		\$ 179,869		\$ -	100	\$ 179,869	\$ -	\$ -	\$ -
Woodbine Avenue	E.S. Through Hamlet		\$ 162,288		\$ -	35	\$ 57,201	\$ 105,087	\$ -	\$ 105,087
Woodbine Avenue	E.S. Woodbine By-pass to Hamlet		\$ 167,021		\$ -	100	\$ 167,021	\$ -	\$ -	\$ -
Yorktech Drive	B.S. Rodick Rd. to Warden Avenue		\$ 385,434		\$ -	100	\$ 385,434	\$ -	\$ -	\$ -
White Belt	B.S. Warden, Kennedy		\$ 1,047,926		\$ -	100	\$ 1,047,926	\$ -	\$ -	\$ -
Warden Avenue	W.S. Elgin Mills Rd. to 19th Avenue		\$ 269,192		\$ -	100	\$ 269,192	\$ -	\$ -	\$ -
Steeles Ave.	N.S. Markham Rd. to OHEPC		\$ 296,111		\$ -	100	\$ 296,111	\$ -	\$ -	\$ -
Reesor Rd.	E.S. Highway 7 to 1000m North of Highway 7		\$ 134,596		\$ -	100	\$ 134,596	\$ -	\$ -	\$ -
Reesor Rd.	B.S. Highway 7 to Highway 407		\$ 228,813		\$ -	100	\$ 228,813	\$ -	\$ -	\$ -
Reesor Rd.	W.S. Highway 407 to 14th Avenue		\$ 82,921		\$ -	100	\$ 82,921	\$ -	\$ -	\$ -
Kennedy Road	B.S. Highway 407 Crossing		\$ 205,565		\$ -	35	\$ 72,455	\$ 133,110	\$ -	\$ 133,110
McCowan Road	B.S. Highway 407 Crossing South		\$ 105,536		\$ -	100	\$ 105,536	\$ -	\$ -	\$ -
Main St. north, Markham	E.S. N. 16th Ave to Major Mackenzie		\$ 324,576		\$ -	100	\$ 324,576	\$ -	\$ -	\$ -
Main St. north, Markham	W.S. N. 16th Ave to Major Mackenzie		\$ 237,684		\$ -	100	\$ 237,684	\$ -	\$ -	\$ -
Rodick Extension	B.S. Riviera Drive to Esna Park Drive		\$ 165,186		\$ -	35	\$ 58,223	\$ 106,963	\$ -	\$ 106,963
Main Street South	W.S. Rouge River to S end		\$ 87,285		\$ -	35	\$ 30,765	\$ 56,520	\$ -	\$ 56,520
Total - Sidewalk			\$ 20,754,481		\$ 4,073,618		\$ 17,545,592	\$ 3,208,889	\$ -	\$ 3,208,889
STORMWATER MANAGEMENT										
City's Watercourses - Erosion Control	Enterprise water course crossing at Tributary # 4 (over local)		\$ 16,608,000	25	\$ -	40	\$ 6,668,079	\$ 5,866,303	\$ -	\$ 5,866,303
Glynnwood Pond Improvements	Miller to 14th Avenue		\$ 1,716,000		\$ -	100	\$ 1,716,000	\$ -	\$ -	\$ -
Miller Avenue Storm	Woodbine to Rodick		\$ 2,039,813		\$ -	35	\$ 713,550	\$ 1,326,262	\$ -	\$ 1,326,262
Rodick Road Storm	Miller to 14th Avenue		\$ 1,233,866		\$ -	17	\$ 203,588	\$ 1,030,278	\$ 1,030,278	\$ -
Birchmount Pond Modification	Crossing Miller		\$ 1,116,698		\$ -	52	\$ 583,091	\$ 533,607	\$ -	\$ -
Don Mills Industrial Drainage Ditch Improvements	Crossing Miller		\$ 2,039,482		\$ -	100	\$ 2,039,482	\$ -	\$ -	\$ -
Helen Local Storm sewer	Stage IV & V		\$ 6,737,306		\$ -	35	\$ 2,356,788	\$ 4,380,518	\$ -	\$ 4,380,518
Sheridan Pond	west of Birchmount		\$ 484,693	34	\$ 166,668		\$ -	\$ 318,025	\$ 318,025	\$ -
Highway 7 Storm Sewer	east of Birchmount		\$ 1,210,517	5	\$ 60,526		\$ -	\$ 1,149,991	\$ 1,149,991	\$ -
Highway 7 Storm Sewer	Highway 7 to Sheridan Pond		\$ 1,378,937	5	\$ 68,947		\$ -	\$ 1,309,991	\$ 1,309,991	\$ -
Sheridan Storm Sewer	at Sheridan Property		\$ 887,616	5	\$ 44,381		\$ -	\$ 843,235	\$ 843,235	\$ -
Sheridan Pond Land	Highway 7 to Sheridan Pond		\$ 2,449,411	5	\$ 122,471		\$ -	\$ 2,326,940	\$ 2,326,940	\$ -
Wismer, E / W Storm Sewer	E. Hwy. 48 to Mount Joy Pond		\$ 2,352,818	5	\$ 117,641		\$ -	\$ 2,235,177	\$ 2,235,177	\$ -
Miller / Rodick SWM pond and Channel improvements	Miller / Rodick SWM pond and Channel improvements		\$ 2,269,138	70	\$ 1,580,976	9	\$ 657,947	\$ 688,163	\$ 688,163	\$ -
Total - SWM			\$ 49,675,894		\$ 9,248,194		\$ 14,938,526	\$ 25,489,174	\$ 13,916,090	\$ 11,573,084

APPENDIX C
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CITY OF MARKHAM
DEVELOPMENT CHARGES BACKGROUND STUDY
CITY-WIDE HARD DEVELOPMENT-RELATED PROJECTS

Location	From / To	Timing of Project	Total		Local - by others		Development-Related Cost (\$)	Others Sharing and/or Non-Growth Cost		
			Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)		Gross (\$)	Non-growth (\$)	
WATERMAIN										
White Belt (300mm to 450mm)	Major Collectors		\$ 11,663,620		\$ -	15	\$ 1,749,543	\$ 9,914,077	\$ 9,914,077	\$ -
Church Street Watermain	Country Glen Road to Bur Oak		\$ 397,979		\$ -	100	\$ 397,979	\$ -	\$ -	\$ -
Woodbine Avenue (400mm)	Woodbine By-pass to 19th Avenue		\$ 1,142,295		\$ -	100	\$ 1,142,295	\$ -	\$ -	\$ -
Woodbine Avenue	Burr Cres / Millbrook Gate		\$ 221,923		\$ -	100	\$ 221,923	\$ -	\$ -	\$ -
Highway 7 Watermain upgrade	Warden to Main Street, Unionville		\$ 2,703,825		\$ -	15	\$ 405,574	\$ 2,298,251	\$ 364,813	\$ 2,298,251
Enterprise, Phase II (300 to 400mm)	Rivas Rd. to Main Street S		\$ 429,192		\$ -	15	\$ 64,379	\$ 364,813	\$ 838,964	\$ -
E.P. Phase I, Enterprise, Rivas & YMCA Blvd. (300 to 400mm)	Karachi Drive to S limit Lot 4, Con.8		\$ 987,017		\$ -	100	\$ 550,161	\$ -	\$ -	\$ -
Kirkham Drive (400mm)	N limit Lot 4, Con. 8 to Markham by-pass		\$ 675,637		\$ -	15	\$ 101,345	\$ 574,291	\$ -	\$ -
Kirkham Drive (300 to 400mm)	through Golf Course to 9th line		\$ 897,631		\$ -	100	\$ 897,631	\$ -	\$ -	\$ -
Kirkham Drive (400mm)	Miller Avenue to 14th Avenue		\$ 675,637		\$ -	100	\$ 675,637	\$ -	\$ -	\$ -
Rodick Road (400mm)	Woodbine to Rodick Road		\$ 791,460		\$ -	74	\$ 585,985	\$ 205,475	\$ -	\$ 205,475
Woodbine by-pass (300mm to 400mm)	Elgin Mills to Lord Melbrone		\$ 247,940		\$ -	15	\$ 37,191	\$ 210,749	\$ 210,749	\$ -
Woodbine by-pass (300mm)	Lord Melbrone to Woodbine Avenue		\$ 627,377		\$ -	15	\$ 94,107	\$ 533,270	\$ 533,270	\$ -
Ninth Line (300 to 400mm)	Cornell South to Church Street		\$ 943,673		\$ -	15	\$ 141,551	\$ 802,122	\$ 802,122	\$ -
Highland Park	Dudley to east of Dudley		\$ 113,844		\$ -	100	\$ 113,844	\$ -	\$ -	\$ -
Steeles Avenue (300mm)	Turff Avenue to Old Kennedy		\$ 262,816		\$ -	100	\$ 262,816	\$ -	\$ -	\$ -
Total - Watermain			\$ 23,332,025		\$ -		\$ 7,590,013	\$ 15,742,013	\$ 13,238,286	\$ 2,503,726
STUDIES										
City-wide Studies - Trans., Servicing, Enviro., Cycling, Traffic Calming, Noise, Subwatershed, Erosion Study Update...etc.			\$ 9,762,000		\$ -	100	\$ 9,762,000	\$ -	\$ -	\$ -
Total - Study			\$ 9,762,000		\$ -		\$ 9,762,000	\$ -	\$ -	\$ -
SPECIAL PROJECTS										
Bike Lanes on City, Regional and Developers			\$ 15,589,039		\$ -	35	\$ 5,494,619	\$ 10,094,420	\$ -	\$ 10,094,420
City-wide Street Safety and Traffic Calming, various locations			\$ 5,375,790		\$ -	35	\$ 1,880,514	\$ 3,495,276	\$ -	\$ 3,495,276
Travel Demand Management			\$ 3,028,813		\$ -	100	\$ 3,028,813	\$ -	\$ -	\$ -
Total - Study			\$ 24,003,642		\$ -		\$ 10,403,946	\$ 13,589,696	\$ -	\$ 13,589,696
STREETSCAPE										
Regional Roads										
HWY 7 - 404 to Town Center Blvd.			\$ 2,015,625		\$ -	50	\$ 1,007,813	\$ 1,007,813	\$ -	\$ 1,007,813
HWY 7 - Town Centre to Reesor Road			\$ 7,950,000		\$ -	50	\$ 3,975,000	\$ 3,975,000	\$ -	\$ 3,975,000
16th Avenue - HWY 404 to Woodbine Ave			\$ 3,359,375		\$ -	50	\$ 1,679,688	\$ 1,679,688	\$ -	\$ 1,679,688
Major Mackenzie Drive E - DCP to 9th Line			\$ 1,075,000		\$ -	50	\$ 537,500	\$ 537,500	\$ -	\$ 537,500
Donald Cousens Parkway	Nineteenth Avenue to Warden Ave		\$ 1,075,000		\$ -	50	\$ 537,500	\$ 537,500	\$ -	\$ 537,500
Donald Cousens Parkway	Major Mac to Markham		\$ 490,000		\$ -	50	\$ 245,000	\$ 245,000	\$ -	\$ 245,000
Kennedy	Steeles to North of Hwy 7		\$ 2,015,625		\$ -	50	\$ 1,007,813	\$ 1,007,813	\$ -	\$ 1,007,813
McCowan	Steeles to Bullock		\$ 2,015,625		\$ -	50	\$ 1,007,813	\$ 1,007,813	\$ -	\$ 1,007,813
Steeles	McCowan to east of DCP		\$ 2,015,625		\$ -	50	\$ 1,007,813	\$ 1,007,813	\$ -	\$ 1,007,813



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CITY OF MARKHAM
DEVELOPMENT CHARGES BACKGROUND STUDY
CITY-WIDE HARD DEVELOPMENT-RELATED PROJECTS

Location	From / To	Timing of Project	Total		Local - by others		Development-Related Cost (\$)	Others Sharing and/or Non-Growth Cost		
			Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)		Gross (\$)	others Cost (\$)	Non-growth (\$)
Regional Roads										
Markham Road	Steeles to 14th Ave		\$ 681,250			50 \$	\$ 340,625	\$ 340,625	\$ -	\$ 340,625
Miscellaneous Regional Roads			\$ 4,031,250			50 \$	\$ 2,015,625	\$ 2,015,625	\$ -	\$ 2,015,625
Total Regional Streetscape			\$ 26,724,375			\$	\$ 13,362,188	\$ 13,362,188	\$ -	\$ 13,362,188
City Roads										
Miller	Woodbine Ave to Kennedy		\$ 1,075,000			50 \$	\$ 537,500	\$ 537,500	\$ -	\$ 537,500
Denison	400m West of 9th Line to 9th Line		\$ 490,000			50 \$	\$ 245,000	\$ 245,000	\$ -	\$ 245,000
Kirkham	Karachi Dr. To S limit of Lot 4, Con. 8		\$ 681,250			50 \$	\$ 340,625	\$ 340,625	\$ -	\$ 340,625
York Tech	Rodick Rd to Warden Ave		\$ 2,015,625			50 \$	\$ 1,007,813	\$ 1,007,813	\$ -	\$ 1,007,813
Rodick	14th Ave to Miller		\$ 490,000			50 \$	\$ 245,000	\$ 245,000	\$ -	\$ 245,000
East Precinct including YMCA Blvd			\$ 4,031,250			50 \$	\$ 2,015,625	\$ 2,015,625	\$ -	\$ 2,015,625
Markham	Major Mac to Donald Cousen		\$ 280,000			50 \$	\$ 140,000	\$ 140,000	\$ -	\$ 140,000
Commerce Valley	East and West Widening		\$ 545,000			50 \$	\$ 272,500	\$ 272,500	\$ -	\$ 272,500
Rodick	14th Ave to Miller		\$ 545,000			50 \$	\$ 272,500	\$ 272,500	\$ -	\$ 272,500
19th Ave Reconstruction	Highway 404 to Warden Ave		\$ 681,250			50 \$	\$ 340,625	\$ 340,625	\$ -	\$ 340,625
Elgin Mills Reconstruction	Highway 404 to 1000m East of Kennedy Rd.		\$ 681,250			50 \$	\$ 340,625	\$ 340,625	\$ -	\$ 340,625
14th Ave Reconstruction	Alden Rd to Hwy 404		\$ 681,250			50 \$	\$ 340,625	\$ 340,625	\$ -	\$ 340,625
Streetscape Woodbine	Through Hamlet		\$ 280,000			50 \$	\$ 140,000	\$ 140,000	\$ -	\$ 140,000
Existing Cedarland Drive	Town Centre to Warden Ave		\$ 490,000			50 \$	\$ 245,000	\$ 245,000	\$ -	\$ 245,000
Clegg Road Extension	Town Centre to Warden Ave		\$ 490,000			50 \$	\$ 245,000	\$ 245,000	\$ -	\$ 245,000
Ramps at 404			\$ 1,075,000			50 \$	\$ 537,500	\$ 537,500	\$ -	\$ 537,500
Unionville Gate widening	Main St S to Kennedy		\$ 490,000			50 \$	\$ 245,000	\$ 245,000	\$ -	\$ 245,000
Enhanced Streetscaping	Area 42B prior commitments		\$ 4,635,116	50 \$	\$ 2,317,558	50 \$	\$ 2,317,558	\$ -	\$ -	\$ -
Miscellaneous City Roads			\$ 2,687,500			50 \$	\$ 1,343,750	\$ 1,343,750	\$ -	\$ 1,343,750
Total City Streetscape			\$ 22,344,491		\$ 2,317,558	\$	\$ 11,172,246	\$ 8,854,688	\$ -	\$ 8,854,688
Structures	City-wide and Regional Roads		\$ 3,847,836			50 \$	\$ 1,923,918	\$ -	\$ -	\$ 1,923,918
Total Special Projects			\$ 76,910,344		\$ 2,317,558	\$	\$ 36,862,296	\$ 35,806,572	\$ -	\$ 37,730,490
STRUCTURES										
Langstaff North Crossing		2015	\$ 12,320,280		\$ -	100 \$	\$ 12,320,280	\$ -	\$ -	\$ -
Langstaff South Crossing		2016	\$ 12,320,280		\$ -	100 \$	\$ 12,320,280	\$ -	\$ -	\$ -
19th Avenue Interchange		2029	\$ 22,717,149		\$ -	100 \$	\$ 22,717,149	\$ -	\$ -	\$ -
Hwy 404 Mid-Block Crossing North of Elgin Mills		2027	\$ 17,474,730		\$ -	33 \$	\$ 5,708,418	\$ 11,766,312	\$ -	\$ -
Elgin Mills Ramp Alignment		2026	\$ 6,533,310		\$ -	100 \$	\$ 6,533,310	\$ -	\$ -	\$ -
Hwy 404 Mid-Block Crossing North of Major Mackenzie		2019	\$ 18,818,940		\$ -	33 \$	\$ 6,147,527	\$ 12,671,413	\$ -	\$ -
Major Mackenzie Ramp Realignment		2025	\$ 6,588,960		\$ -	100 \$	\$ 6,588,960	\$ -	\$ -	\$ -
Hwy 404 Mid-Block Crossing North of 16th Avenue		2025	\$ 24,195,780		\$ -	33 \$	\$ 7,903,963	\$ 16,291,817	\$ -	\$ -
Markland St. Extension - Structure over Rouge River		2015	\$ 8,002,841		\$ -	100 \$	\$ 8,002,841	\$ -	\$ -	\$ -
Hwy 404 Mid Block Crossing North of Hwy 7		2013	\$ 19,621,907		\$ -	33 \$	\$ 6,409,829	\$ 13,212,077	\$ -	\$ -
Hwy 7 Ramp Improvements		2013	\$ 9,777,493		\$ -	100 \$	\$ 9,777,493	\$ -	\$ -	\$ -
John Street Partial Ramp Improvements		2020	\$ 5,519,553		\$ -	100 \$	\$ 5,519,553	\$ -	\$ -	\$ -
Miller Avenue Extension Structure over CN		2021	\$ 20,566,413		\$ -	100 \$	\$ 20,566,413	\$ -	\$ -	\$ -



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CITY OF MARKHAM
DEVELOPMENT CHARGES BACKGROUND STUDY
CITY-WIDE HARD DEVELOPMENT-RELATED PROJECTS

Location	From / To	Timing of Project	Total		Local - by others		Development-Related Cost (\$)	Others Sharing and/or Non-Growth Cost	
			Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)		Gross (\$)	others Cost (\$)
STRUCTURES									
Miller Avenue Extension Structure over Go Rail		2021	\$ 14,344,715		\$ -	100	\$ 14,344,715	\$ -	\$ -
Verciaire Gate S Structure over Rouge River		2019	\$ 6,207,687		\$ -	100	\$ 6,207,687	\$ -	\$ -
Scarbarras Road Structure over Rouge River		2019	\$ 4,841,342		\$ -	100	\$ 4,841,342	\$ -	\$ -
MC - YMCA Boulevard over GO Station		2018	\$ 5,986,688		\$ -	100	\$ 5,986,688	\$ -	\$ -
MC - Markham Live Street over GO Station		2018	\$ 5,545,022		\$ -	100	\$ 5,545,022	\$ -	\$ -
Yorktech Drive Structure over Rouge River		2015	\$ 4,823,713		\$ -	100	\$ 4,823,713	\$ -	\$ -
Town Centre Blvd. Extension to Yorktech Drive		2015	\$ 3,858,971		\$ -	100	\$ 3,858,971	\$ -	\$ -
Denison Street Extension Structure over CN		2016	\$ 6,656,445		\$ -	100	\$ 6,656,445	\$ -	\$ -
Denison Street Extension Structure over Rouge River		2016	\$ 3,858,971		\$ -	100	\$ 3,858,971	\$ -	\$ -
MC - Frontage St		2018	\$ 2,811,744	38	\$ 1,054,404	25	\$ 702,936	\$ 1,054,404	\$ -
Hwy 404 Ramp Improvements - Buttonville		2017	\$ 5,359,681		\$ -	33	\$ 1,786,382	\$ 3,573,299	\$ -
Hwy 404 Mid-Block Crossing - Buttonville		2018	\$ 20,000,000		\$ -	33	\$ 6,666,000	\$ 13,334,000	\$ -
Pedestrian Bridges		2015	\$ 2,088,188		\$ -	100	\$ 2,088,188	\$ -	\$ -
Watercourse Crossings in White Belt (North of Major Mackenzie)		2016-2021	\$ 24,996,338		\$ -	100	\$ 24,996,338	\$ -	\$ -
City-wide bridge/crossing projects (minor collectors)		2014	\$ 54,253,665	75	\$ 40,690,249	25	\$ 13,563,416	\$ -	\$ -
Birchmount Overpass		2013	\$ 9,990,710		\$ -	100	\$ 9,990,710	\$ 500,000	\$ -
Main St. South, Markham widening at Rouge River		2013	\$ 8,071,476		\$ -	90	\$ 7,264,328	\$ 807,148	\$ -
407 Ramp Alignment at Warden		2014	\$ 10,000,000		\$ -	100	\$ 10,000,000	\$ -	\$ -
407 Ramp Alignment at Kennedy		2014	\$ 1,000,000		\$ -	100	\$ 1,000,000	\$ -	\$ -
Total - Structures			\$ 379,152,989		\$ 41,744,653		\$ 264,197,865	\$ 73,210,471	\$ 807,148

PROJECTS undertaken by CREDIT AGREEMENT

ROADS									
South Unionville Avenue (4th lane)	McCowan to w of Oakcrest Ave.		\$ 64,833		\$ -	100	\$ 64,833	\$ -	\$ -
South Unionville Avenue	Additional R.O.W. for 4th lane		\$ 134,612		\$ -	100	\$ 134,612	\$ -	\$ -
Burr Oak Avenue	At Grade crossing @ CNR		\$ 200,000		\$ -	100	\$ 200,000	\$ -	\$ -
Burr Oak Avenue	CNR to Anderson Avenue		\$ 138,968		\$ -	100	\$ 138,968	\$ -	\$ -
Anderson Avenue widening	east of Highway 48		\$ 102,706		\$ -	100	\$ 102,706	\$ -	\$ -
			\$ 641,119		\$ -		\$ 641,119	\$ -	\$ -

PROJECTS undertaken by CREDIT AGREEMENT 3a

ILLUMINATION									
Woodbine Avenue	W.S., Hooper Road / 16th Avenue		\$ -		\$ -		\$ -	\$ -	\$ -

SIDEWALKS

Woodbine Avenue	E.S., Rouge River / 16th Ave.		\$ -		\$ -		\$ -	\$ -	\$ -
Woodbine Avenue	W.S., Rouge River / 16th Ave.		\$ -		\$ -		\$ -	\$ -	\$ -

SUB - TOTAL - SIDEWALKS \$ -

SUBTOTAL by Credit Agreement - 3A \$ -



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CITY OF MARKHAM
DEVELOPMENT CHARGES BACKGROUND STUDY
CITY-WIDE HARD DEVELOPMENT-RELATED PROJECTS

Location	From / To	Timing of Project	Local - by others		Development-Related Cost (\$)	Others Sharing and/or Non-Growth Cost	
			Share (%)	Cost (\$)		Gross others Cost (\$)	Non-growth (\$)
<u>PROJECTS undertaken by CREDIT AGREEMENT 41</u>							
<u>ILLUMINATION</u>							
Church Street	S.S., Ninth Line / 250 m east of 9th Line		100	\$ 41,097	\$ 41,097	\$ -	\$ -
	Sub-Total - Illumination			\$ 41,097	\$ 41,097	\$ -	\$ -
<u>INTERSECTION</u>							
Intersection Improvement	at Church Street and Hospital entrance		100	\$ 50,000	\$ 50,000	\$ -	\$ -
	Sub-Total - Intersection			\$ 50,000	\$ 50,000	\$ -	\$ -
<u>ROADS</u>							
Church Street Widening	Ninth Line / 250 m east of 9th Line		100	\$ 103,103	\$ 103,103	\$ -	\$ -
	Sub-Total - Roads			\$ 103,103	\$ 103,103	\$ -	\$ -
<u>SIDEWALKS</u>							
Church Street	N.S., Ninth Line / 250 m east of 9th Line		100	\$ 33,475	\$ 33,475	\$ -	\$ -
	Sub-Total - Sidewalks			\$ 33,475	\$ 33,475	\$ -	\$ -
<u>WATER</u>							
Realignment of PD 5 and PD 6	Church Street to 16th Avenue		31	\$ 460,000	\$ 143,868	\$ 316,132	\$ -
Ninth Line North (400mm)	Mintleaf Gate to 9th Line		90	\$ 500,000	\$ 450,000	\$ 50,000	\$ 50,000
Sixteenth Avenue East	E of Ninth Line / Part Lot 4		61	\$ 1,000,000	\$ 612,900	\$ 387,100	\$ 387,100
Church Street			100	\$ 28,119	\$ 28,119	\$ -	\$ -
	Sub-Total - Water			\$ 1,988,119	\$ 1,234,887	\$ 753,232	\$ -
	SUBTOTAL by Credit Agreement - 41			\$ 2,215,794	\$ 1,462,562	\$ 753,232	\$ -
<u>PROJECTS undertaken by CREDIT AGREEMENT 42a</u>							
<u>INTERSECTION</u>							
Highway 7 (Right in and right out)	at Oakcrest Street		100	\$ 100,000	\$ 100,000	\$ -	\$ -
	Sub-Total - Intersection			\$ 100,000	\$ 100,000	\$ -	\$ -
<u>ROADS</u>							
South Unionville Avenue (3rd lane)	McCowan to w of Oakcrest Ave.		100	\$ 124,419	\$ 124,419	\$ -	\$ -
South Unionville Avenue	Additional R.O.W. for 3rd lane		100	\$ 258,331	\$ 258,331	\$ -	\$ -
N-S Connector Road	Minor Collector to Avoca Drive		100	\$ 72,000	\$ 72,000	\$ -	\$ -
	Sub-Total - Roads			\$ 454,750	\$ 454,750	\$ -	\$ -
	SUBTOTAL by Credit Agreement - 42A			\$ 554,750	\$ 554,750	\$ -	\$ -



APPENDIX C
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CITY OF MARKHAM
DEVELOPMENT CHARGES BACKGROUND STUDY
CITY-WIDE HARD DEVELOPMENT-RELATED PROJECTS

Location	From / To	Timing of Project	Total		Local - by others		Development-Related Cost (\$)	Others Sharing and/or Non-Growth Cost		
			Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)		Gross others Cost (\$)	Non-growth (\$)	
<u>PROJECTS undertaken by CREDIT AGREEMENT, 43</u>										
PROJECTS undertaken by CREDIT AGREEMENT Phase I										
<u>ROADS</u>										
Burr Oak Avenue	At-Grade Crossing at CNR		\$ 400,000	\$	-	50	\$ 200,000	\$ 200,000	\$ 200,000	
Burr Oak Avenue	Anderson Ave. / C.N.R.		\$ 277,936	\$	-	50	\$ 138,968	\$ 138,968	\$ 138,968	
North Collector Road, Design Only	Anderson Ave. / C.N.R.		\$ 55,678	\$	-	100	\$ 55,678	\$ -	\$ -	
North Collector Road, Design Only	C.N.R. at Grade Crossing		\$ 30,000	\$	-	100	\$ 30,000	\$ -	\$ -	
	Sub-Total - Roads		\$ 763,614	\$			\$ 424,646	\$ 338,968	\$ 338,968	
<u>SIDEWALKS</u>										
16th Avenue	N.S. Ninth Line to 285m westerly		\$ 17,225	\$	-	100	\$ 17,225	\$ -	\$ -	
	Sub-Total - Sidewalks		\$ 17,225	\$			\$ 17,225	\$ -	\$ -	
<u>WATER</u>										
Realignment of PD 5 and PD 6	Mintleaf Gate to 9th Line		\$ 460,000	\$	-	20	\$ 90,868	\$ 369,132	\$ 369,132	
Sixteenth Avenue East			\$ 1,000,000	\$	-	39	\$ 387,100	\$ 612,900	\$ 612,900	
	Sub-Total - Water		\$ 1,460,000	\$			\$ 477,968	\$ 982,032	\$ 982,032	
	SUBTOTAL by Credit Agreement		\$ 2,240,839	\$	-		\$ 919,838	\$ 1,321,001	\$ 1,321,001	
<u>PROJECTS undertaken by CREDIT AGREEMENT Phase II</u>										
<u>ROADS</u>										
North Collector Road, construction	Anderson Ave. / C.N.R.		\$ 1,055,884	\$	-	100	\$ 1,055,884	\$ -	\$ -	
North Collector Road, construction	C.N.R. at Grade Crossing		\$ 573,549	\$	-	100	\$ 573,549	\$ -	\$ -	
North Collector Road (Property)	23m Right of Way		\$ 506,094	\$	-	100	\$ 506,094	\$ -	\$ -	
	Sub-Total - Roads		\$ 2,135,527	\$	-		\$ 2,135,527	\$ -	\$ -	
	SUBTOTAL by Credit Agreement - 43		\$ 4,376,366	\$			\$ 3,055,365	\$ 1,321,001	\$ 1,321,001	
<u>PROJECTS undertaken by CREDIT AGREEMENT, 44a</u>										
<u>WATER</u>										
Ninth Line South (400mm)	14th Avenue to Highway 407		\$ 1,096,333	\$	-	21	\$ 235,636	\$ 860,697	\$ 860,697	
	Sub-Total - Water		\$ 1,096,333	\$			\$ 235,636	\$ 860,697	\$ 860,697	
	SUBTOTAL by Credit Agreement - 44a		\$ 1,096,333	\$			\$ 235,636	\$ 860,697	\$ 860,697	



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CITY OF MARKHAM
DEVELOPMENT CHARGES BACKGROUND STUDY
CITY-WIDE HARD DEVELOPMENT-RELATED PROJECTS

Location	From / To	Timing of Project	Total		Local - by others		Development-Related Cost (\$)	Others Sharing and/or Non-Growth Cost	
			Gross Cost (\$)	Cost (\$)	Share (%)	Cost (\$)		Gross others Cost (\$)	Non-growth (\$)
<u>PROJECTS undertaken by CREDIT AGREEMENT, 45b</u>									
WATER									
Realignment of PD 5 and PD 6 Kennedy Road (400mm)	16th Ave. to Major Mackenzie Dr.		\$ 460,000	\$ -	21	\$ 95,899	\$ 364,101	\$ 364,101	\$ -
			\$ 711,258	\$ -	43	\$ 302,794	\$ 408,464	\$ 408,464	\$ -
	Sub-Total - Water		\$ 1,171,258	\$ -		\$ 398,692	\$ 772,565	\$ 772,565	\$ -
	SUBTOTAL by Credit Agreement - 45B		\$ 1,171,258	\$ -		\$ 398,692	\$ 772,565	\$ 772,565	\$ -
<u>PROJECTS undertaken by CREDIT AGREEMENT, 47a</u>									
WATER									
Realignment of PD 5 and PD 6 Kennedy Road (400mm)	16th Ave. to Major Mackenzie Dr.		\$ 460,000	\$ -	4	\$ 16,950	\$ 443,050	\$ 443,050	\$ -
			\$ 711,258	\$ -	8	\$ 53,519	\$ 657,739	\$ 657,739	\$ -
	Sub-Total - Water		\$ 1,171,258	\$ -		\$ 70,469	\$ 1,100,789	\$ 1,100,789	\$ -
	SUBTOTAL by Credit Agreement - 47A		\$ 1,171,258	\$ -		\$ 70,469	\$ 1,100,789	\$ 1,100,789	\$ -
	TOTAL CREDIT AGREEMENT		\$ 11,226,877	\$ -		\$ 6,418,593	\$ 4,808,284	\$ 4,808,284	\$ -

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

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
CITY-WIDE ENGINEERING										
OPENING CASH BALANCE	\$52,882.1	\$23,173.4	\$26,160.5	\$18,838.7	\$7,010.6	\$6,450.7	(\$40,109.9)	(\$45,261.5)	(\$51,025.8)	(\$80,361.1)
2013-2031 RESIDENTIAL FUNDING REQUIREMENTS										
- City-Wide Engineering: Non Inflated	\$51,518.4	\$22,842.1	\$27,962.2	\$32,042.8	\$18,881.3	\$58,471.2	\$18,929.3	\$18,386.5	\$36,952.8	\$7,216.2
- City-Wide Engineering: Inflated	\$51,518.4	\$23,299.0	\$29,091.8	\$34,004.1	\$20,437.7	\$64,556.9	\$21,317.5	\$21,120.3	\$43,296.1	\$8,624.0
NEW RESIDENTIAL DEVELOPMENT										
- Population Growth in New Units	8,312	8,383	7,401	7,523	6,634	6,295	5,986	5,704	5,450	5,524
REVENUE										
- DC Receipts: Inflated	\$22,749.9	\$23,403.2	\$21,074.9	\$21,850.8	\$19,654.0	\$19,022.7	\$18,450.7	\$17,933.1	\$17,477.2	\$18,068.8
INTEREST										
- Interest on Opening Balance	\$1,850.9	\$881.1	\$915.6	\$659.4	\$245.4	\$225.8	(\$2,206.0)	(\$2,489.4)	(\$2,806.4)	(\$4,419.9)
- Interest on In-year Transactions	(\$791.1)	\$1.8	(\$220.5)	(\$334.2)	(\$21.6)	(\$1,252.2)	(\$78.8)	(\$87.6)	(\$710.0)	\$165.3
TOTAL REVENUE	\$23,809.6	\$24,286.1	\$21,770.1	\$22,175.9	\$19,877.8	\$17,996.3	\$16,165.8	\$15,356.1	\$13,960.8	\$13,814.2
CLOSING CASH BALANCE	\$25,173.4	\$26,160.5	\$18,838.7	\$7,010.6	\$6,450.7	(\$40,109.9)	(\$45,261.5)	(\$51,025.8)	(\$80,361.1)	(\$75,170.9)

	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
CITY-WIDE ENGINEERING										
OPENING CASH BALANCE	(\$75,170.9)	(\$66,242.7)	(\$55,572.5)	(\$57,129.1)	(\$51,770.0)	(\$43,463.4)	(\$28,544.6)	(\$35,063.7)	(\$18,348.2)	
2013-2031 RESIDENTIAL FUNDING REQUIREMENTS										
- City-Wide Engineering: Non Inflated	\$5,126.9	\$4,519.6	\$14,865.5	\$9,755.3	\$8,119.6	\$3,988.4	\$20,360.4	\$3,988.4	\$3,988.4	\$367,945.3
- City-Wide Engineering: Inflated	\$6,249.6	\$5,619.6	\$18,853.1	\$12,619.5	\$10,713.6	\$5,381.4	\$27,950.5	\$5,598.8	\$5,710.7	\$415,962.5
NEW RESIDENTIAL DEVELOPMENT										
- Population Growth in New Units	5,721	5,785	5,856	5,924	6,002	6,079	6,157	6,242	6,328	121,306
REVENUE										
- DC Receipts: Inflated	\$19,087.5	\$19,687.0	\$20,327.2	\$20,974.5	\$21,675.7	\$22,392.9	\$23,133.8	\$23,922.2	\$24,736.8	\$395,622.9
INTEREST										
- Interest on Opening Balance	(\$4,134.4)	(\$3,643.4)	(\$3,056.5)	(\$3,142.1)	(\$2,847.3)	(\$2,390.5)	(\$1,570.0)	(\$1,928.5)	(\$1,009.1)	(\$30,865.4)
- Interest on In-year Transactions	\$224.7	\$246.2	\$25.8	\$146.2	\$191.8	\$297.7	(\$132.5)	\$320.7	\$333.0	(\$1,675.4)
TOTAL REVENUE	\$15,177.8	\$16,289.8	\$17,296.5	\$17,978.6	\$19,020.2	\$20,300.1	\$21,431.4	\$22,314.4	\$24,060.6	\$363,082.1
CLOSING CASH BALANCE	(\$66,242.7)	(\$55,572.5)	(\$57,129.1)	(\$51,770.0)	(\$43,463.4)	(\$28,544.6)	(\$35,063.7)	(\$18,348.2)	\$1.7	

2013 Adjusted Charge Per Capita **\$2,737.00**

Allocation of Capital Program	
Residential Sector	62.0%
Non-Residential Sector	38.0%
Rates for 2013	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



APPENDIX C
TABLE 3 - PAGE 2

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

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
CITY-WIDE ENGINEERING										
OPENING CASH BALANCE	\$32,382.8	\$18,139.2	\$21,467.0	\$21,640.4	\$19,083.7	\$23,777.8	\$1,254.6	\$5,453.6	\$10,271.2	\$1,709.2
2013-2031 RESIDENTIAL FUNDING REQUIREMENTS										
- City-Wide Engineering: Non Inflated	\$31,547.6	\$13,987.6	\$17,122.8	\$19,621.6	\$11,562.1	\$35,805.2	\$11,591.5	\$11,259.1	\$22,628.3	\$4,418.9
- City-Wide Engineering: Inflated	\$1,547.6	\$14,267.3	\$17,814.6	\$20,822.6	\$12,515.2	\$39,531.9	\$13,053.9	\$12,933.2	\$26,512.7	\$5,281.0
NEW NON-RESIDENTIAL DEVELOPMENT										
- Non-Residential Development in Ha	75.22	75.22	75.22	75.22	69.03	69.03	69.03	69.03	69.03	22.82
REVENUE										
- DC Receipts: Inflated	\$16,582.2	\$16,913.9	\$17,252.2	\$17,597.2	\$16,472.1	\$16,801.5	\$17,137.6	\$17,480.3	\$17,829.9	\$6,012.1
INTEREST										
- Interest on Opening Balance	\$1,133.4	\$634.9	\$751.3	\$757.4	\$667.9	\$632.2	\$43.9	\$190.9	\$359.5	\$59.8
- Interest on In-year Transactions	(\$411.5)	\$46.3	(\$15.5)	(\$88.7)	\$69.2	(\$625.1)	\$71.5	\$79.6	(\$238.8)	\$12.8
TOTAL REVENUE	\$17,304.0	\$17,595.1	\$17,988.1	\$18,265.9	\$17,209.3	\$17,008.6	\$17,253.0	\$17,750.8	\$17,950.6	\$6,084.7
CLOSING CASH BALANCE	\$18,139.2	\$21,467.0	\$21,640.4	\$19,083.7	\$23,777.8	\$1,254.6	\$5,453.6	\$10,271.2	\$1,709.2	\$2,512.9

	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
CITY-WIDE ENGINEERING										
OPENING CASH BALANCE	\$2,512.9	\$4,946.6	\$7,982.8	\$2,955.4	\$1,805.4	\$1,535.5	\$4,708.8	(\$6,046.0)	(\$3,132.9)	
2013-2031 RESIDENTIAL FUNDING REQUIREMENTS										
- City-Wide Engineering: Non Inflated	\$3,139.5	\$2,767.6	\$9,103.0	\$5,973.7	\$4,972.1	\$2,448.5	\$12,467.9	\$2,448.5	\$2,448.5	\$225,313.9
- City-Wide Engineering: Inflated	\$3,827.0	\$3,441.2	\$11,544.8	\$7,727.7	\$6,560.5	\$3,295.3	\$17,115.7	\$3,428.4	\$3,497.0	\$254,717.6
NEW NON-RESIDENTIAL DEVELOPMENT										
- Non-Residential Development in Ha	22.82	22.82	22.82	22.82	21.44	21.44	21.44	21.44	21.44	867
REVENUE										
- DC Receipts: Inflated	\$6,132.4	\$6,255.0	\$6,380.1	\$6,507.7	\$6,236.4	\$6,361.2	\$6,488.4	\$6,618.2	\$6,750.5	\$217,808.9
INTEREST										
- Interest on Opening Balance	\$88.0	\$173.1	\$279.4	\$103.4	\$63.2	\$53.7	\$164.8	(\$332.5)	(\$172.3)	\$5,852.1
- Interest on In-year Transactions	\$40.3	\$49.2	(\$142.0)	(\$33.5)	(\$8.9)	\$53.7	(\$292.3)	\$55.8	\$56.9	(\$1,320.9)
TOTAL REVENUE	\$6,260.7	\$6,477.4	\$6,517.5	\$6,577.6	\$6,290.7	\$6,468.6	\$6,361.0	\$6,341.5	\$6,635.1	\$222,340.1
CLOSING CASH BALANCE	\$4,946.6	\$7,982.8	\$2,955.4	\$1,805.4	\$1,535.5	\$4,708.8	(\$6,046.0)	(\$3,132.9)	\$5.2	

2013 Adjusted Charge Per Ha **\$220,450**

Allocation of Capital Program	
Residential Sector	62.0%
Non-Residential Sector	38.0%
Rates for 2013	
Inflation Rate	2.0%
Interest Rate on Positive Balances	3.5%
Interest Rate on Negative Balances	5.5%



APPENDIX D

AREA-SPECIFIC TECHNICAL APPENDIX

APPENDIX D

AREA-SPECIFIC HARD SERVICES DEVELOPMENT-RELATED CAPITAL FORECAST AND DEVELOPMENT CHARGES CALCULATION

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

- roads;
- sanitary sewers;
- storm water management;
- special projects (mainly streetcaping);
- intersection improvements;
- structures;
- property acquisitions;
- projects undertaken by credit agreement;
- sidewalks;
- illumination; 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. In addition, 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* (the DCA), the area-specific services are planned for the period from 2013 to 2031 so that the development-related capital costs are apportioned over the development anticipated within the City's designated urban boundary. Consistent with s. 5. (1) 7 of the DCA, there is no legislated percentage reduction in the eligible development-related capital costs for the provision of these services.

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 4 – Woodbine/404
- Area 5 – Armadale
- Area 7 – Armadale NE
- Area 8 – Milliken
- Area 9 – PD 1-7
- Area 17 – Rodick/Miller Road Planning District
- Area 18 – Buttonville Airport
- 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 45A – Wismer
- Area 46 – Cathedral
- Area 47B – York Downs
- Area 49 – 404 North

These areas represent a reasonable basis on which to calculate the area-specific 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. Many of the estimates reflect inflation-adjusted costs from the City's existing development charges. The estimates include provision for engineering and contingencies.

A. AREA-SPECIFIC CAPITAL COSTS

Table 1 provides a summary of the development-related capital program for area-specific services. Table 1 provides a summary of area-specific capital program by area. Many of the area-specific projects provide benefits to multiple areas, and City-wide, and the recovery of the cost of these projects is 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 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 1, the servicing costs vary significantly by development area. This underscores the merit of utilizing an area-specific approach for these services.

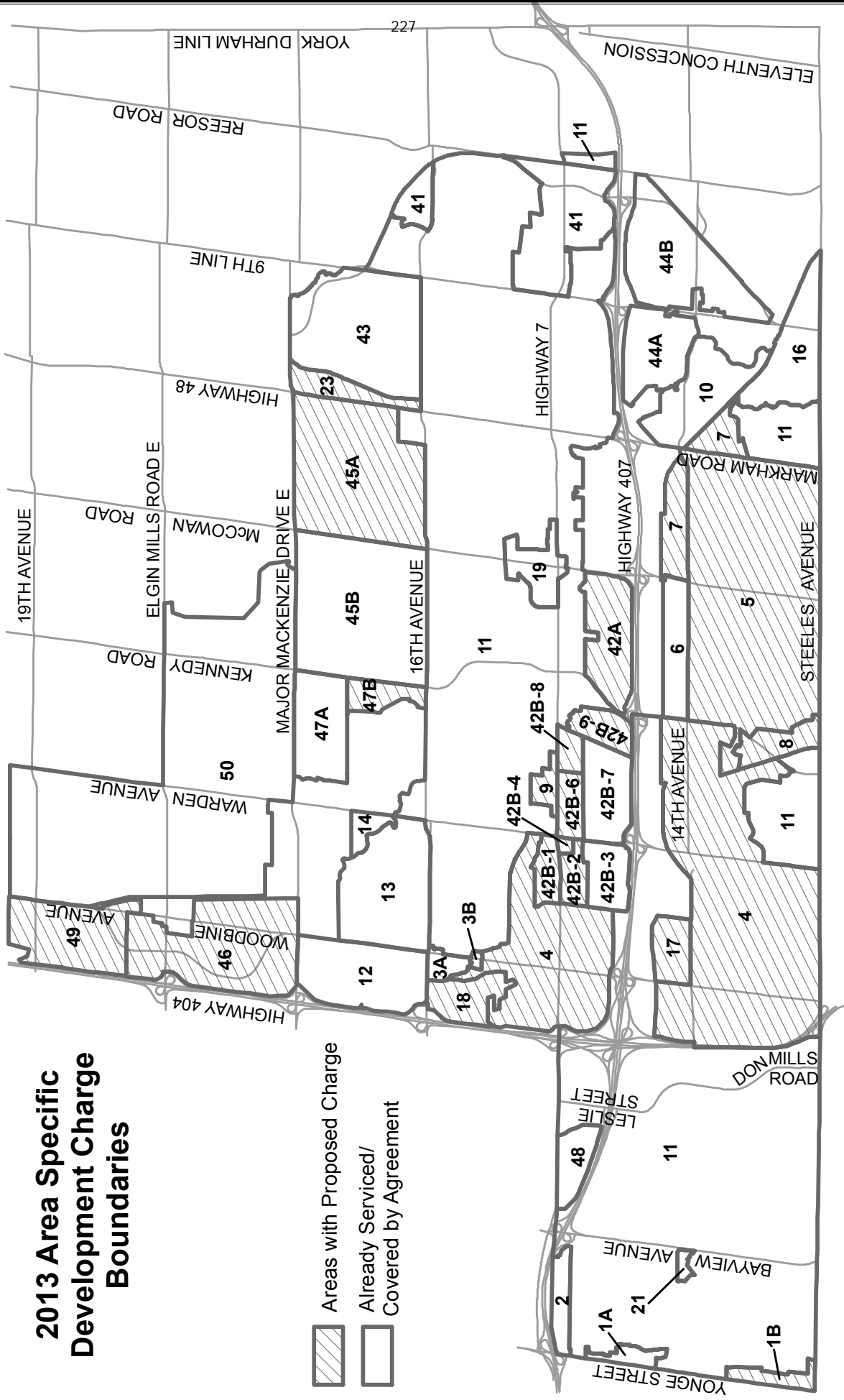
Of the all the projects included in the area-specific calculations, \$132.1 million, is identified as area-specific development-related and forms the basis for the area-specific development charges calculations.

Nearly \$5.94 million is available the overall reserve fund balance for the ASDCs. This amount is applied towards the development-related costs. Agreement credits in the sum of \$2.5 million have also been accounted for, and projects already funded from reserves amounts to \$2.8 million.

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 1, the calculated charges range from a low of about \$6,769 per net hectare to a high of about \$3,079,743 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).

2013 Area Specific Development Charge Boundaries

-  Areas with Proposed Charge
-  Already Served/
Covered by Agreement



**APPENDIX D
TABLE 1
CITY OF MARKHAM
SUMMARY OF AREA-SPECIFIC DEVELOPMENT CHARGES
FOR AREA-SPECIFIC SERVICES 2013-2031**

Area Name	Area #	Growth-Related Costs	Adjustments			Total ASDC Recoverable	Land Area (Ha)	ASDC Charge \$/ha
			Reserve Fund Balance	Credits in Agreement	Projects Funded From Reserve			
Yonge Steeles Corridor	1B	\$10,265,598	\$0	\$0	\$0	\$10,265,598	9.070	\$1,131,819
Woodbine/404	4	\$10,905,801	(\$868,650)	\$0	\$0	\$10,037,152	66.837	\$150,174
Armadales	5	\$1,213,831	(\$532,853)	(\$293,988)	\$0	\$386,990	39.270	\$9,855
Armadales NE	7	\$521,486	(\$53,019)	\$0	\$0	\$468,467	40.184	\$11,658
Milliken	8	\$3,461,749	(\$1,166,441)	\$0	\$0	\$2,295,308	14.849	\$154,577
PD 1-7	9	\$8,150,599	\$1,022,771	\$0	\$0	\$9,173,370	13.465	\$681,288
Rodick/Miller Road Planning District	17	\$6,227,196	\$224,870	\$0	\$0	\$6,452,066	29.279	\$220,363
Buttontville Airport	18	\$34,676,605	\$0	\$0	\$0	\$34,676,605	56.700	\$611,580
Mount Joy	23	\$975,097	\$0	\$0	\$0	\$975,097	20.440	\$47,705
Markham Centre - South Unionville - Helen Ave	42A.1	\$2,786,700	(\$365,466)	(\$1,290,436)	(\$68,098)	\$1,062,700	0.639	\$1,663,067
Markham Centre	42B	\$819,466	(\$53,782)	\$0	\$0	\$765,684	113.113	\$6,769
Markham Centre - Clegg	42B.2	\$504,473	\$153,646	\$0	\$0	\$658,119	7.093	\$92,779
Markham Centre - Hotel	42B.4	\$424,385	\$18,065	\$0	\$0	\$442,450	0.500	\$884,900
Markham Centre - South Hwy 7	42B.6	\$8,748,646	\$1,128,921	(\$660,418)	\$0	\$9,217,149	8.830	\$1,043,845
Markham Centre - Sciberras	42B.8	\$4,679,589	\$293,457	\$0	\$0	\$4,973,045	16.929	\$293,764
Markham Centre - East Precinct	42B.9	\$33,133,104	\$5,415,859	\$0	(\$2,777,753)	\$35,771,210	11.615	\$3,079,743
Wismer	45A	\$920,663	(\$601,625)	(\$14,259)	\$0	\$304,779	31.461	\$9,688
Cathedral	46	\$1,145,013	\$632,593	(\$274,734)	\$0	\$1,502,872	63.210	\$23,776
York Downs	47B	\$502,681	(\$53,973)	\$0	\$0	\$448,708	18.219	\$24,629
404 North	49	\$2,078,541	\$747,477	\$0	\$0	\$2,826,018	66.393	\$42,565
Total		\$132,141,223	\$5,941,851	(\$2,533,835)	(\$2,845,851)	\$132,703,387		

APPENDIX D
TABLE 2

CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 1B : Yonge Steeles Corridor

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost		
		Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	DC Update 2012 based on 2012 Policies Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)	
AREA 1B : Yonge Steeles Corridor										
<u>ILLUMINATION</u>										
	Sub-Total - Illumination	0		0		0		0	0	0
<u>INTERSECTION</u>										
	Sub-Total - Intersection	0		0		0		0	0	0
<u>STORM WATER MANAGEMENT</u>										
	Sub-Total - Stormwater Management	0		0		0		0	0	0
<u>ROADS</u>										
	Dudley Avenue Ring Road	7,926,500			100%	7,926,500		0	0	0
	Sub-Total - Roads	7,926,500		0		7,926,500		0	0	0
<u>WATER</u>										
	Sub-Total - Water	0		0		0		0	0	0
<u>STRUCTURES</u>										
	Sub-Total - Structures	0		0		0		0	0	0
<u>Sanitary Yonge / Steeles Corridor</u>										
	Dudley Ave	2,339,098	0%	0	100%	2,339,098		0	0	0
	SUBTOTAL	2,339,098		0		2,339,098		0	0	0
	TOTAL AREA 1B	10,265,598		0		10,265,598		0	0	0
<u>PROJECTS undertaken by CREDIT AGREEMENT</u>										
	TOTAL AREA 1B	10,265,598		0		10,265,598		0	0	0
	Less:									
	Less:									
	Balance in Reserve Fund as December 31, 2012					-				
	Projects Funded from Reserve					-				
	Total in Development Charge					10,265,598				
	Net Developable Area (Ha.) to Pay New Dev Charge					9,070				
	Development Charge per Net Hectare					1,131,819				

APPENDIX D
TABLE 3 - PAGE 1

CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 4A: Woodbine/404

Location	From / To	Total Gross Cost (\$)	Local Cost / by others Share (%)	ASDC Growth - Related DC Update 2012 Cost based on 2012 Policies (\$) Share Cost	Others Sharing and/or Non-Growth Cost	
					Gross (\$)	Non-growth (\$)
AREA 4A: Woodbine/404						
<u>ILLUMINATION</u>						
	Sub-Total - Illumination	0	0	0	0	0
<u>INTERSECTION</u>						
	Sub-Total - Intersection	0	0	0	0	0
<u>STORM WATER MANAGEMENT</u>						
	Sub-Total - Stormwater Management	0	0	0	0	0
<u>ROADS</u>						
	Sub-Total - Roads	0	0	0	0	0
<u>SANITARY SEWERS</u>						
Woodbine / 404		1,999,170	0%	100%	1,999,170	0
Steeles East / Warden Corridors		8,906,631		100%	8,906,631	0
	Sub-Total - Sanitary Sewers	10,905,801	0		10,905,801	0
<u>STRUCTURES</u>						
	Sub-Total - Structures	0	0	0	0	0
<u>STUDIES</u>						
	Sub-Total - Studies	0	0	0	0	0
<u>WATER</u>						
	Sub-Total - Water	0	0	0	0	0

APPENDIX D
TABLE 3 - PAGE 2

CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 4A: Woodbine/404

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost		
		Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	DC Update 2012 based on 2012 Policies Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)	
<u>SPECIAL PROJECTS</u>										
	Sub-Total - Special Projects	0	0%	0		0		0	0	0
<u>STREETSCAPE</u>										
	Sub Total - Special Projects	0	0%	0		0		0	0	0
	SUBTOTAL AREA 4A	10,905,801		0		10,905,801		0	0	0
<u>PROJECTS undertaken by CREDIT AGREEMENT</u>										
	SUBTOTAL by Credit Agreement	0		0		0		0	0	0
	TOTAL AREA 4	10,905,801		0		10,905,801		0	0	0
	Less:									
	Less:									
	Less:									
	Balance in Reserve Fund as December 31, 2012							(868,650)		
	Credit as per Agreement							-		
	Projects Funded from Reserve							-		
	Total in Development Charge							10,037,152		
	Net Developable Area (Ha.) to Pay New Dev Charge							66.837		
	Development Charge per Net Hectare							150,174		

APPENDIX D
TABLE 4 - PAGE 1

CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 5 : ARMADALE

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related DC Update 2012 Share based on 2012 Policies Cost	Others Sharing and/or Non-Growth Cost		
		Gross Cost (\$)	Share (%)	Cost (\$)	Cost (\$)		Gross (\$)	Non-growth (\$)	
AREA 5 : ARMADALE									
<u>ILLUMINATION</u>									
	Sub-Total - Illumination	0		0		0	0	0	0
<u>INTERSECTION</u>									
	Sub-Total - Intersection	0		0		0	0	0	0
<u>ROADS</u>									
	Sub-Total - Roads	0		0		0	0	0	0
<u>SIDEWALKS</u>									
	Sub-Total - Sidewalks	0		0		0	0	0	0
<u>STORM WATER MANAGEMENT</u>									
	Armadale SWM S Pond	374,917				233,831	62%	141,086	0
	SWME of Hwy 48 pt lot 1 Con. 8	374,917		0		233,831		141,086	0
	Sub-Total - Stormwater Management								
<u>SANITARY SEWERS</u>									
	Sub-Total - Sanitary Sewers	0		0		0		0	0
<u>STRUCTURES</u>									
	Sub-Total - Structures	0	0%	0		0		0	0
<u>STUDIES</u>									
	Sub-Total - Studies	0	0%	0		0		0	0
<u>WATER</u>									
	Sub-Total - Water	0		0		0		0	0
<u>SPECIAL PROJECTS</u>									
	STREETSCAPE								
	Sub-Total - Special Projects	0	0%	0		0		0	0
	SUBTOTAL AREA 5	374,917		0		233,831		141,086	0

APPENDIX D
TABLE 4 - PAGE 2

CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 5 : ARMADALE

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost	
		Gross Cost (\$)	Share (%)	Cost (\$)	Share based on 2012 Policies	Gross Cost (\$)	others Cost (\$)	Non-growth (\$)	
AREA 5 : ARMADALE									
<u>PROJECTS undertaken by CREDIT AGREEMENT</u>									
<u>STORM WATER MANAGEMENT</u>									
Armadaile SWM N Pond	SWM E of Hwy 48 Pt Lot 3 Con 8	5,676,382	56%	3,156,233	17%	980,000	1,540,149	1,540,149	0
	Sub-Total - Stormwater Management	5,676,382		3,156,233		980,000	1,540,149	1,540,149	0
	SUBTOTAL by Credit Agreement	5,676,382		3,156,233		980,000	1,540,149	1,540,149	0
	TOTAL AREA 5	6,051,299		3,156,233		1,213,831	1,681,235	1,681,235	0
Less:	Balance in Reserve Fund as December 31, 2012					(632,853)			
Less:	Credit as per Agreement					(293,988)			
Less:	Projects Funded from Reserve					-			
	Total in Development Charge					386,990			
	Net Developable Area (Ha.) to Pay New Dev Charge					39,270			
	Development Charge per Net Hectare					9,855			

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CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 7 : ARMADALE NE

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost		
		Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	DC Update 2012 based on 2012 Policies Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)	
AREA 7 : ARMADALE NE										
ILLUMINATION										
	Sub-Total - Illumination	0		0		0		0	0	0
INTERSECTION										
	Sub-Total - Intersection	0		0		0		0	0	0
ROADS										
	Sub-Total - Roads	0		0		0		0	0	0
SIDEWALKS										
	Sub-Total - Sidewalks	0		0		0		0	0	0
STORM WATER MANAGEMENT										
	Armadaile SWM N Pond	5,676,382	8%	467,835		521,486		4,687,061	4,687,061	0
	Sub-Total - Stormwater Management	5,676,382		0		521,486		4,687,061	4,687,061	0
SANITARY SEWERS										
	Sub-Total - Sanitary Sewers	0		0		0		0	0	0
STRUCTURES										
	Sub-Total - Structures	0	0%	0		0		0	0	0
STUDIES										
	Sub-Total - Studies	0	0%	0		0		0	0	0
WATER										
	Sub-Total - Water	0		0		0		0	0	0

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CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 7 : ARMADALE NE

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost	
		Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	DC Update 2012 based on 2012 Policies Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)
AREA 7 : ARMADALE NE									
<u>SPECIAL PROJECTS</u>									
	Sub-Total - Special Projects	0	0%	0	0	0	0	0	0
	SUBTOTAL AREA 7	5,676,382		0		521,486		4,687,061	0
	TOTAL AREA 7	5,676,382		0		521,486		4,687,061	0
	Less:								
	Less: Balance in Reserve Fund as December 31, 2012					(53,019)			
	Less: Credit as per Agreement					-			
	Less: Projects Funded from Reserve					-			
	Total in Development Charge					468,467			
	Net Developable Area (Ha.) to Pay New Dev Charge					40.184			
	Development Charge per Net Hectare					11,658			

PROJECTS undertaken by CREDIT AGREEMENT
No Projects

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CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 8 : MILLIKEN MILLS

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost		
		Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	DC Update 2012 based on 2012 Policies Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)	
AREA 8 : MILLIKEN MILLS										
<u>ILLUMINATION</u>										
	Sub-Total - Illumination	0		0		0		0	0	0
<u>INTERSECTION</u>										
	Sub-Total - Intersection	0		0		0		0	0	0
<u>ROADS</u>										
	Old Kennedy Road Improvements	1,332,678	0%	0	100%	1,332,678		0	0	0
	Midland Avenue - Property	1,484,019			86%	1,272,016		212,003	212,003	CWH
	Sub-Total - Roads	2,816,697		0		2,604,694		212,003	212,003	0
<u>SIDEWALKS</u>										
	Sub-Total - Sidewalks	0		0		0		0	0	0
<u>STORM WATER MANAGEMENT</u>										
	Sub-Total - Stormwater Management	0		0		0		0	0	0
<u>SANITARY SEWERS</u>										
	Milliken Centre	857,055	0%	0	100%	857,055		0	0	0
	Sub-Total - Sanitary Sewers	857,055		0		857,055		0	0	0
<u>STRUCTURES</u>										
	Sub-Total - Structures	0		0		0		0	0	0
<u>STUDIES</u>										
	Sub-Total - Studies	0		0		0		0	0	0

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CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 8 : MILLIKEN MILLS

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost	
		Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	DC Update 2012 based on 2012 Policies Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)
AREA 8 : MILLIKEN MILLS									
<u>WATER</u>									
	Sub-Total - Water	0	0%	0	0%	0	0	0	0
<u>STREETSCAPE</u>									
	Sub-Total - Special Projects	0		0		0	0	0	0
	SUBTOTAL AREA 8	3,673,751		0		3,461,749	212,003	212,003	0
<u>PROJECTS undertaking by CREDIT AGREEMENT</u>									
	SUBTOTAL by Credit Agreement	0		0		0	0	0	0
	TOTAL AREA 8	3,673,751		0		3,461,749	212,003	212,003	0
Less:	Balance in Reserve Fund as December 31, 2012					(1,166,441)			
Less:	Credit as per Agreement					-			
Less:	Projects Funded from Reserve					-			
	Total in Development Charge					2,295,308			
	Net Developable Area (Ha.) to Pay New Dev Charge					14,849			
	Development Charge per Net Hectare					154,577			

NOT APPLICABLE



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

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost		
		Gross Cost (\$)	Share (%)	Cost (\$)	Share based on 2012 Policies	DC Update 2012 Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)	
AREA 9 : PD 1-7 (Reference to Markham Centre Sub-Area 5)										
<u>ILLUMINATION</u>										
	Sub-Total - Illumination	0		0		0		0	0	0
<u>INTERSECTION</u>										
Village Parkway	Roundabout	221,375			100%	221,375		0	0	0
	Sub-Total - Intersection	221,375		0		221,375		0	0	0
<u>ROADS</u>										
Village Parkway	Southbound dedicated left turn lane @ hwy 7	44,553			100%	44,553		0	0	0
	Sub-Total - Roads	44,553		0		44,553		0	0	0
<u>SIDEWALKS</u>										
	Sub-Total - Sidewalks	0		0		0		0	0	0
<u>STORM WATER MANAGEMENT</u>										
Sheridan Pond (Construction)	Village Pkwy to East of Street G	919,700	0%	0	64%	590,447		329,253	329,253	0
Highway 7 Storm Sewer	Highway 7 to Sheridan Pond	1,709,819	0%	0	90%	1,538,837		170,982	170,982	0
Sheridan Storm Sewer	at Sheridan Property	1,884,510	0%	0	90%	1,701,713		182,797	182,797	0
Sheridan Pond Land		1,783,570	0%	0	64%	1,145,052		638,518	638,518	0
	Sub-Total - Stormwater Management	6,297,599		0		4,976,049		1,321,550	1,321,550	0
<u>SANITARY SEWERS</u>										
Highway 7 Sanitary Sewer	Village Parkway to Main Street Unionville	12,832,266	0%	0	20%	2,566,453		10,265,813	10,265,813	0
Highway 7 Sanitary Sewer	Hwy 7 to YDSS	762,093	0%	0	20%	152,419		609,674	609,674	0
	Sub-Total - Sanitary Sewers	13,594,359		0		2,718,872		10,875,487	10,875,487	0

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

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost		
		Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	DC Update 2012 based on 2012 Policies Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)	
AREA 9 : PD 1-7 (Reference to Markham Centre Sub-Area 5)										
STRUCTURES										
	Sub-Total - Structures	0		0		0		0	0	0
STUDIES										
	Sub-Total - Studies	0		0		0		0	0	0
WATER										
	Sub-Total - Water	0		0		0		0	0	0
SPECIAL PROJECTS										
Village Parkway	STREETSCAPE Dedicated Bike Lanes	189,750				189,750	100%	189,750	0	0
	Sub-Total - Special Projects	189,750		0		189,750		0	0	0
		20,347,636		0		8,150,599		12,197,037	12,197,037	0
PROJECTS undertaken by CREDIT AGREEMENT										
		0		0		0		0	0	0
		20,347,636		0		8,150,599		12,197,037	12,197,037	0
		Balance in Reserve Fund as December 31, 2012								1,022,771
		Credit as per Agreement								-
		Projects Funded from Reserve								-
		Total in Development Charge								9,173,370
		Net Developable Area (Ha.) to Pay New Dev Charge								13.465
		Development Charge per Net Hectare								681,288

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

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost			Shared With Area	
		Gross Cost (\$)	Share (%)	Cost (\$)	DC Update 2012 based on 2012 Policies Share	Gross Cost (\$)	Non-growth Cost (\$)	others Cost (\$)				
AREA 17 : RODICK ROAD / MILLER ROAD PLANNING DISTRICT												
<u>ILLUMINATION</u>												
	Sub-Total - Illumination	0		0		0		0	0	0	0	
<u>INTERSECTION</u>												
	Sub-Total - Intersection	0		0		0		0	0	0	0	
<u>ROADS</u>												
	Sub-Total - Roads	0		0		0		0	0	0	0	
<u>SIDEWALKS</u>												
	Sub-Total - Sidewalks	0		0		0		0	0	0	0	
<u>STORM WATER MANAGEMENT</u>												
	Miller Avenue Storm	1,233,866	0%	0	84%	1,030,278		203,588	203,588	0	0	CWH
	Rodick Road Storm	1,116,698	0%	0	48%	533,607		583,091	583,091	0	0	CWH
	Miller / Rodick SWM pond and Channel improvements	7,151,598	42%	3,012,968	49%	3,480,683		657,947	657,947	0	0	CWH
	Sub-Total - Stormwater Management	9,502,162		3,012,968		5,044,568		1,444,627	1,444,627	0	0	

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

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost			Shared With Area	
		Gross Cost (\$)	Share (%)	Cost (\$)	DC Update 2012 based on 2012 Policies Share	Gross (\$)	others Cost (\$)	Non-growth (\$)				
AREA 17 : RODICK ROAD / MILLER ROAD PLANNING DISTRICT												
<u>SANITARY SEWERS</u>												
Miller Avenue Sanitary Sewer	Woodbine to Rodick	719,760	0%	0	100%	719,760	0	0	0	0	0	
Rodick Road Sanitary Sewer	Miller Avenue to 14th Avenue	462,869	0%	0	100%	462,869	0	0	0	0	0	
	Sub-Total - Sanitary Sewers	1,182,628		0		1,182,628		0	0	0	0	
<u>STRUCTURES</u>												
	Sub-Total - Structures	0		0		0		0	0	0	0	
<u>STUDIES</u>												
	Sub-Total - Studies	0		0		0		0	0	0	0	
<u>WATER</u>												
	Sub-Total - Water	0		0		0		0	0	0	0	
<u>STREETSCAPE</u>												
	Sub-Total - Special Projects	0		0		0		0	0	0	0	
	SUBTOTAL AREA 17	10,684,790		3,012,968		6,227,196		1,444,627	1,444,627	0	0	
<u>PROJECTS undertaken by CREDIT AGREEMENT</u>												
	SUBTOTAL by Credit Agreement	0		0		0		0	0	0	0	
	TOTAL AREA 17	10,684,790		3,012,968		6,227,196		1,444,627	1,444,627	0	0	
	Less:					Balance in Reserve Fund as December 31, 2012		224,870				
	Less:					Credit as per Agreement		-				
	Less:					Projects Funded from Reserve		-				
						Total in Development Charge		6,452,066				
						Net Developable Area (Ha.) to Pay New Dev Charge		29,279				
						Development Charge per Net Hectare		220,363				

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CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 18 : Buttonville Airport

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost	
		Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	DC Update 2012 based on 2012 Policies Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)
AREA 18 : Buttonville Airport									
<u>ILLUMINATION</u>									
	Sub-Total - Illumination	0		0		0		0	0
<u>INTERSECTION</u>									
	Improvement - Valleywood and Renfrew drive	500,000				250,000	50%	250,000	250,000
	Sub-Total - Intersection	500,000	0%	0		250,000		250,000	0
<u>ROADS</u>									
	Allstate Pkway widening	652,500				326,250	50%	326,250	326,250
	Renfrew Drive	2,400,000				2,400,000	100%		
	Frontac Drive	1,400,000				1,400,000	100%		
	Hooper Road Extension	2,400,000				2,400,000	100%		
	Honda Blvd	2,956,250				2,533,929	86%	422,321	422,321
	Valleywood Drive to Buttonville South property line								
	Extension to 16th Ave								
	Centurian Dr to Valleywood Dr								
	Renfrew to New Road								
	Woodbine By-pass to 19th Ave								
	Sub-Total - Roads	9,808,750	0%	0		9,060,179		748,571	748,571
<u>STORM WATER MANAGEMENT</u>									
	Sub-Total - Stormwater Management	0		0		0		0	0
<u>STRUCTURES</u>									
	Hwy 404 Mid-Block crossing - Buttonville	20,000,000				6,666,000	33%	13,334,000	13,334,000
	Sub-Total - Structures	20,000,000		0		6,666,000		13,334,000	13,334,000

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CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 18 : Buttonville Airport

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost	
		Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	DC Update 2012 based on 2012 Policies Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)
AREA 18 : Buttonville Airport									
<u>SANITARY</u>									
Buttonville Airport		1,810,084	0%	0	100%	1,810,084	0	0	0
Sub-Total - Stormwater Management									
<u>PROPERTY</u>									
Allstate Pkway	Extension to 16th Ave	300,000			86%	257,143	42,857	42,857	
Frontac Drive	Centurian Dr to Valleywood Dr	15,300,000			100%	15,300,000	0	0	
Hwy 404 Mid-Block crossing - Buttonville		4,000,000			33%	1,333,200	2,666,800	2,666,800	
Sub-Total - Property									
		19,600,000	0%	0		16,890,343	2,709,657	2,709,657	0
SUBTOTAL AREA 18		51,718,834	0%	0		34,676,605	17,042,229	17,042,229	0
PROJECTS undertaken by CREDIT AGREEMENT									
		0	0%	0		0	0	0	0
SUBTOTAL by Credit Agreement		0	0%	0		0	0	0	0
TOTAL AREA 18		51,718,834	0%	0		34,676,605	17,042,229	17,042,229	0
Less:		Balance in Reserve Fund as December 31, 2012							
Less:		Projects Funded from Reserve							
		Total in Development Charge							
		Net Developable Area (Ha.) to Pay New Dev Charge							
		Development Charge per Net Hectare							

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CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 23 : MOUNT JOY

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost	
		Gross Cost (\$)	Share (%)	Cost (\$)	DC Update 2012 based on 2012 Policies Share	Gross Cost (\$)	others Cost (\$)	Non-growth (\$)	
AREA 23 : MOUNT JOY									
<u>ILLUMINATION</u>									
	Sub-Total - Illumination	0		0		0		0	0
<u>INTERSECTION</u>									
	Sub-Total - Intersection	0		0		0		0	0
<u>ROADS</u>									
	Sub-Total - Roads	0		0		0		0	0
<u>SIDEWALKS</u>									
	Sub-Total - Sidewalks	0		0		0		0	0
<u>STORM WATER MANAGEMENT</u>									
	Sub-Total - Stormwater Management	0		0		0		0	0
<u>SANITARY SEWERS</u>									
	Markham Road Corridor - Mount Joy	975,097	0%	0	100%	975,097		0	0
	Sub-Total - Sanitary Sewers	975,097		0		975,097		0	0
<u>STRUCTURES</u>									
	Sub-Total - Structures	0		0		0		0	0
<u>STUDIES</u>									
	Sub-Total - Studies	0		0		0		0	0

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CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 23 : MOUNT JOY

Location	From / To	Total Gross Cost (\$)	Local Cost / by others Share (%)	Cost (\$)	ASDC Growth - Related DC Update 2012 based on 2012 Policies Share Cost	Others Sharing and/or Non-Growth Cost Gross (\$)	others Cost (\$)	Non-growth (\$)
AREA 23 : MOUNT JOY								
<u>WATER</u>								
	Sub-Total - Water	0		0	0	0	0	0
<u>SPECIAL PROJECTS</u>								
	Sub-Total - Special Projects	0		0	0	0	0	0
	SUBTOTAL AREA 23	975,097		0	975,097	0	0	0
<u>PROJECTS undertaken by CREDIT AGREEMENT</u>								
NOT APPLICABLE								
	SUBTOTAL by Credit Agreement	0		0	0	0	0	0
	TOTAL AREA 23	975,097		0	975,097	0	0	0
Less:	Balance in Reserve Fund as December 31, 2012				-			
Less:	Credit as per Agreement				-			
Less:	Projects Funded from Reserve				-			
	Total in Development Charge				975,097			
	Net Developable Area (Ha.) to Pay New Dev Charge				20,440			
	Development Charge per Net Hectare				47,705			

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CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 42A-1 : HELEN AVENUE

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost		
		Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	DC Update 2012 based on 2012 Policies Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)	
AREA 42A-1 : HELEN AVENUE										
<u>ILLUMINATION</u>										
	Sub-Total - Illumination	0		0		0		0	0	0
<u>INTERSECTION</u>										
	Sub-Total - Intersection	0		0		0		0	0	0
<u>STRUCTURES</u>										
	Sub-Total - Structures	0		0		0		0	0	0
<u>HYDRO and UTILITY RELOCATION</u>										
	Sub-Total - Hydro and Utility Relocation	0	0%	0		0		0	0	0
<u>ROADS</u>										
	Helen Ave. urbanize including sidewalk on N.S. Stage IV & V	607,500	0%	0		607,500	100%	0	0	0
	Urbanize existing Helen Avenue (east of Kennedy Road)	220,240	0%	0		183,240	83%	37,000	0	37,000
	Helen Avenue Stage IV and V	47,558	0%	0		47,558	100%	0	0	0
	Sub-Total - Roads	875,298	0%	0		838,298		37,000	0	37,000
<u>STORM WATER MANAGEMENT</u>										
	Helen Local Storm sewer Stage IV & V	484,693	34%	166,668		318,025	66%	0	0	0
	Sub-Total - Stormwater Management	484,693		166,668		318,025		0	0	0
<u>SANITARY SEWERS</u>										
	Stage IV and V sanitary sewer Kennedy To 255m easterly	222,400	0%	0		137,888	62%	84,512	0	0
	Helen Avenue Sanitary Kennedy To 255m easterly	202,053	0%	0		202,053	100%	0	0	0
	Sub-Total - Sanitary Sewers	424,452	0%	0		339,940		84,512	0	0
<u>WATER</u>										
	Sub-Total - Water	0	0%	0		0		0	0	0
	SUBTOTAL AREA 42A.1	1,784,443	0%	166,668		1,496,264		121,512	84,512	37,000

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CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 42A-1 : HELEN AVENUE

Location	From / To	Local Cost / by others		ASDC Growth - Related DC Update 2012		Others Sharing and/or Non-Growth Cost	
		Share (%)	Cost (\$)	Share based on 2012 Policies	Cost	Gross (\$)	others Cost Non-growth (\$)
AREA 42A-1 : HELEN AVENUE							
<u>PROJECTS undertaken by CREDIT AGREEMENT</u>							
Helen Avenue	N.S. Relocation of existing poles		83,441	0	100%	83,441	0
Urbanize existing Helen Avenue including sidewalk on north side			652,724	0	83%	543,063	109,661
Helen Local Storm sewer	Stages I, II & III	34%	756,544	260,147	66%	496,397	0
Helen Avenue Sanitary	East end to 697m westerly		281,787	0	41%	115,835	165,952
Existing Helen Avenue Watermain Looping			51,700	0	100%	51,700	0
SUBTOTAL by Credit Agreement			1,826,196	0		1,290,436	275,613
TOTAL AREA 42A.1			3,610,639	0		2,786,700	397,125
Less:		Balance in Reserve Fund as December 31, 2012				(365,466)	
Less:		Credit as per Agreement				(1,290,436)	
		Projects Funded from Reserve				(68,098)	
		Total in Development Charge				1,062,700	
Net Developable Area (Ha.) to Pay New Dev Charge						0.6390	
Development Charge per Net Hectare						1,663,067	

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CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 42B : MARKHAM CENTRE

Location	From / To	Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost			
		Total Gross Cost (\$)	Share (%)	Cost (\$)	DC Update 2012 based on 2012 Policies Share	Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)
AREA 42B : MARKHAM CENTRE									
<u>ILLUMINATION</u>									
	Sub-Total - Illumination	0		0		0	0	0	0
<u>INTERSECTION</u>									
	Markham Centre Turning Lane & Unionville Traffic Calming	0	0%	0	0%	0	0	0	0
	Sub-Total - Intersection	0		0		0	0	0	0
<u>ROADS</u>									
	Sub-Total - Roads	0		0		0	0	0	0
<u>SIDEWALKS</u>									
	Sub-Total - Sidewalks	0		0		0	0	0	0
<u>STORM WATER MANAGEMENT</u>									
	Sub-Total - Stormwater Management	0		0		0	0	0	0
<u>SANITARY SEWERS</u>									
	Markham Centre	194,801	0%	0	100%	194,801	0	0	0
	Sub-Total - Sanitary Sewers	194,801		0		194,801	0	0	0
<u>STRUCTURES</u>									
	Sub-Total - Structures	0		0		0	0	0	0

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CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 42B : MARKHAM CENTRE

Location	From / To	Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost	
		Share (%)	Cost (\$)	Share	DC Update 2012 based on 2012 Policies Cost	Gross (\$)	Non-growth (\$)
AREA 42B : MARKHAM CENTRE							
<u>STUDIES</u>							
Secondary Plan Studies		72%	90,325	73%	624,665	225,335	0
Stormwater and Floodplain Mgmt Study				0%	0	34,675	0
Sub-Total - Studies			0		624,665	260,010	0
<u>WATER</u>							
Sub-Total - Water			0		0	0	0
<u>SPECIAL PROJECTS</u>							
<u>STREETSCAPE</u>							
Sub-Total - Special Projects			0		0	0	0
SUBTOTAL AREA 42B			1,169,801		819,466	260,010	0
<u>PROJECTS undertaken by CREDIT AGREEMENT</u>							
NOT APPLICABLE							
TOTAL AREA 42B							
Less:		Balance in Reserve Fund as December 31, 2012		(53,782)			
Less:		Credit as per Agreement		-			
		Projects Funded from Reserve		-			
		Total in Development Charge		765,684			
		Net Developable Area (Ha.) to Pay New Dev Charge		113.113			
		Development Charge per Net Hectare		6,769			

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

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost			
		Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	DC Update 2012 based on 2012 Policies Cost	Share (%)	Gross (\$)	others Cost (\$)	Non-growth (\$)	
AREA 42B.2 : MARKHAM CENTRE - CLEGG											
<u>ILLUMINATION</u>											
	Sub-Total - Illumination	0		0		0		0	0	0	0
<u>INTERSECTION</u>											
	Sub-Total - Intersection	0		0		0		0	0	0	0
<u>ROADS</u>											
	Town Centre to Warden Ave	2,422,510	64%	1,538,614	21%	504,473		379,423	343,553	35,870	
	Sub-Total - Roads	2,422,510		0		504,473		379,423	343,553	35,870	
<u>SIDEWALKS</u>											
	Sub-Total - Sidewalks	0		0		0		0	0	0	0
<u>STORM WATER MANAGEMENT</u>											
	Sub-Total - Stormwater Management	0		0		0		0	0	0	0
<u>SANITARY SEWERS</u>											
	Sub-Total - Sanitary Sewers	0		0		0		0	0	0	0
<u>STRUCTURES</u>											
	Sub-Total - Structures	0		0		0		0	0	0	0
<u>STUDIES</u>											
	Sub-Total - Studies	0		0		0		0	0	0	0

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

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost			
		Gross Cost (\$)	Share (%)	Cost (\$)	Share based on 2012 Policies	DC Update 2012 Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)		
AREA 42B.4 : MARKHAM CENTRE - HOTEL											
<u>ILLUMINATION</u>											
	Sub-Total - Illumination	0		0		0		0	0	0	0
<u>INTERSECTION</u>											
	Sub-Total - Intersection	0		0		0		0	0	0	0
<u>ROADS</u>											
	Town Centre to Warden Ave	2,422,510	6%	154,940	2%	46,103	2,221,467	2,185,597	35,870		
	Sub-Total - Roads	2,422,510		0		46,103	2,221,467	2,185,597	35,870		
<u>SIDEWALKS</u>											
	Clegg Road Extension	25,849		0	100%	25,849	0	0	0	0	0
	Sub-Total - Sidewalks	25,849		0		25,849	0	0	0	0	0
<u>STORM WATER MANAGEMENT</u>											
	Town Centre to Warden	519,986	0%	0	48%	252,146	267,840	267,840	0	0	0
	Sub-Total - Stormwater Management	519,986		0		252,146	267,840	267,840	0	0	0
<u>SANITARY SEWERS</u>											
	Town Centre to Warden Avenue	217,006	0%	0	37%	80,105	136,901	136,901	0	0	0
	Courtyard Lane (NS Road) Sanitary Sewer	54,674	0%	0	37%	20,182	34,492	34,492	0	0	0
	Sub-Total - Sanitary Sewers	271,680		0		100,287	171,393	171,393	0	0	0
<u>STRUCTURES</u>											
	Sub-Total - Structures	0		0		0	0	0	0	0	0

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

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost	
		Gross Cost (\$)	Share (%)	Cost (\$)	Share based on 2012 Policies	Gross (\$)	others Cost (\$)	Non-growth (\$)	
AREA 42B.4 : MARKHAM CENTRE - HOTEL									
<u>STUDIES</u>									
	Sub-Total - Studies	0		0	0	0	0	0	0
<u>WATER</u>									
	Sub-Total - Water	0		0	0	0	0	0	0
<u>SPECIAL PROJECTS</u>									
<u>STREETSCAPE</u>									
	Sub-Total - Special Projects	0		0	0	0	0	0	0
	SUBTOTAL AREA 42B.4	3,240,025		0	424,385	2,660,700	2,624,830	35,870	

PROJECTS undertaken by CREDIT AGREEMENT

NOT APPLICABLE

SUBTOTAL by Credit Agreement	0	0	0	0	0	0	0	0	0
TOTAL AREA 42B.4	3,240,025	0	0	424,385	2,660,700	2,624,830	35,870		
Less:	Balance in Reserve Fund as December 31, 2012								
Less:	Credit as per Agreement								
	Projects Funded from Reserve								
	Total in Development Charge								
	Net Developable Area (Ha.) to Pay New Dev Charge								
	Development Charge per Net Hectare								

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

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related DC Update 2012 based on 2012 Policies Share	Others Sharing and/or Non-Growth Cost		
		Gross Cost (\$)	Share (%)	Cost (\$)	Cost (\$)		Gross (\$)	others Cost (\$)	Non-growth (\$)
AREA 42B.6 : MARKHAM CENTRE - SOUTH HIGHWAY 7									
<u>ILLUMINATION</u>									
	Sub-Total - Illumination	0		0		0	0	0	0
<u>INTERSECTION</u>									
	Sub-Total - Intersection	0		0		0	0	0	0
<u>ROADS</u>									
	Sub-Total - Roads	0		0		0	0	0	0
<u>SIDEWALKS</u>									
	Sub-Total - Sidewalks	0		0		0	0	0	0
<u>STORM WATER MANAGEMENT</u>									
	Sheridan Pond (Construction)	919,700				1%	5,518	914,182	914,182
	Sheridan Storm Sewer	1,894,510				2%	32,037	1,852,473	1,852,473
	Sheridan Pond Land	1,783,570				1%	10,701	1,772,869	1,772,869
	Sub-Total - Stormwater Management	4,587,780		0			48,256	4,539,524	4,539,524
<u>SANITARY SEWERS</u>									
	Village Parkway to Main Street Unionville	12,832,266	0%	0		64%	8,212,650	4,619,616	4,619,616
	Highway 7 Sanitary Sewer	762,093	0%	0		64%	487,740	274,353	274,353
	Highway 7 Sanitary Sewer	13,594,359		0			8,700,390	4,893,969	4,893,969
	Sub-Total - Sanitary Sewers								
<u>STRUCTURES</u>									
	Sub-Total - Structures	0		0			0	0	0
<u>STUDIES</u>									
	Sub-Total - Studies	0		0			0	0	0

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

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related DC Update 2012 based on 2012 Policies Share	Others Sharing and/or Non-Growth Cost		
		Gross Cost (\$)	Share (%)	Cost (\$)	Cost (\$)		Gross (\$)	others Cost (\$)	Non-growth (\$)
AREA 42B.6 : MARKHAM CENTRE - SOUTH HIGHWAY 7									
<u>WATER</u>									
	Sub-Total - Water	0		0		0	0	0	0
<u>SPECIAL PROJECTS</u>									
	Sub-Total - Special Projects	0		0		0	0	0	0
	SUBTOTAL AREA 42B.6	18,182,139		0		8,748,646	9,433,493	9,433,493	0

PROJECTS undertaken by CREDIT AGREEMENT

NOT APPLICABLE

SUBTOTAL by Credit Agreement	0	0	0	0	0	0	0	0	0
TOTAL AREA 42B.6	18,182,139	0%	0	0	8,748,646	9,433,493	9,433,493	9,433,493	0

Less: Balance in Reserve Fund as December 31, 2012
Less: Credit as per Agreement
Projects Funded from Reserve
Total in Development Charge
Net Developable Area (Ha.) to Pay New Dev Charge
Development Charge per Net Hectare

1,128,921
(660,418)
-
9,217,149
8,830
1,043,845

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

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost	
		Gross Cost (\$)	Share (%)	Cost (\$)	Share based on 2012 Policies	Gross Cost (\$)	others Cost (\$)	Non-growth Cost (\$)	
AREA 42B.8 : MARKHAM CENTRE - SCIBERRAS									
<u>ILLUMINATION</u>									
	Sub-Total - Illumination	0		0		0		0	0
<u>INTERSECTION</u>									
	Sub-Total - Intersection	0		0		0		0	0
<u>ROADS</u>									
	Highway 7 to Rouge River	2,132,284	0%	0	86%	1,827,672		304,612	0
	Sub-Total - Roads	2,132,284		0		1,827,672		304,612	0
<u>SIDEWALKS</u>									
	Sub-Total - Sidewalks	0		0		0		0	0
<u>STORM WATER MANAGEMENT</u>									
	Sheridan Pond (Construction)	919,700	0%	0	22%	201,414		718,286	0
	Sheridan Storm Sewer	1,884,510	0%	0	5%	84,803		1,799,707	0
	Sheridan Pond Land at Sheridan Property	1,783,570	0%	0	22%	390,602		1,392,968	0
	Sub-Total - Stormwater Management	4,587,780		0		676,819		3,910,961	0
<u>SANITARY SEWERS</u>									
	Highway 7 Sanitary Sewer	12,832,266	0%	0	16%	2,053,163		10,779,103	0
	Highway 7 Sanitary Sewer Hwy 7 to YDSS	762,093	0%	0	16%	121,935		640,158	0
	Sub-Total - Sanitary Sewers	13,594,359		0		2,175,097		11,419,262	0
<u>STRUCTURES</u>									
	Sub-Total - Structures	0		0		0		0	0

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

Location	From / To	Total Gross Cost (\$)	Local Cost / by others		ASDC Growth - Related DC Update 2012 based on 2012 Policies		Others Sharing and/or Non-Growth Cost	
			Share (%)	Cost (\$)	Share	Cost	Gross (\$)	others Cost (\$)
AREA 42B.8 : MARKHAM CENTRE - SCIBERRAS								
<u>STUDIES</u>								
	Sub-Total - Studies	0		0	0	0	0	0
<u>WATER</u>								
	Sub-Total - Water	0		0	0	0	0	0
<u>SPECIAL PROJECTS</u>								
	<u>STREETSCAPE</u>							
	Sub-Total - Special Projects	0		0	0	0	0	0
	SUBTOTAL AREA 42B.8	20,314,423		0	4,679,589	15,634,834	15,634,834	0

PROJECTS undertaken by CREDIT AGREEMENT

NOT APPLICABLE

	SUBTOTAL by Credit Agreement	0		0	0	0	0	0
	TOTAL AREA 42B.8	20,314,423		0	4,679,589	15,634,834	15,634,834	0
Less:	Balance in Reserve Fund as December 31, 2012				293,457			
Less:	Credit as per Agreement				-			
	Projects Funded from Reserve				-			
	Total in Development Charge				4,973,045			
	Net Developable Area (Ha.) to Pay New Dev Charge				16,929			
	Development Charge per Net Hectare				293,764			

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

Location	From / To	Total Gross Cost (\$)	Local Cost / by others		ASDC Growth - Related DC Update 2012 based on 2012 Policies Share	Cost	(\$)	Gross (\$)	others Cost (\$)	Non-growth (\$)
			Share (%)	Cost (\$)						
AREA 42B.9 : MARKHAM CENTRE - EAST PRECINCT										
<u>ILLUMINATION</u>										
E.P Street Lighting		323,400	0%	0	100%	\$ 323,400	0	0	0	0
Sub-Total - Illumination		323,400		0	\$	323,400	0	0	0	0
<u>INTERSECTION</u>										
E.P Intersections		987,131	0%	0	100%	\$ 987,131	0	0	0	0
Sub-Total - Intersection		987,131		0	\$	987,131	0	0	0	0
<u>ROADS</u>										
Enterprise Drive, local (Ph. I)	Rivas Road to GO Line	1,067,976	0%	0	86%	\$ 918,459	149,517	149,517	0	0
Enterprise Drive (Ph. II)	Rivas Road to Main Street S	2,172,736	0%	0	86%	\$ 1,868,553	304,183	304,183	0	0
E.P Remaining Roadworks		18,008,883	0%	0	100%	\$ 18,008,883	0	0	0	0
Sub-Total - Roads		21,249,595		0	\$	20,795,896	453,700	453,700	0	0
<u>SIDEWALKS</u>										
Sub-Total - Sidewalks		0		0	\$	-	0	0	0	0
<u>STORM WATER MANAGEMENT</u>										
E.P Remaining Storm Sewers		5,414,614	0%	0	100%	\$ 5,414,614	0	0	0	0
Enterprise Phase II, Local Storm sewers		228,530	0%	0	100%	\$ 228,530	0	0	0	0
E.P., Enterprise Phase 1- Local Storm Sewers		956,874	0%	0	100%	\$ 956,874	0	0	0	0
E.P., South Pond, Kennedy/YMCA		113,743	0%	0	100%	\$ 113,743	0	0	0	0
Sub-Total - Stormwater Management		6,713,761		0	\$	6,713,761	0	0	0	0
<u>SANITARY SEWERS</u>										
YDSS Relocation		22,000,000	0%	0	0%	\$ -	22,000,000	22,000,000	0	0
E.P Remaining Sanitary Sewers		332,240	0%	0	100%	\$ 332,240	0	0	0	0
E.P., Enterprise Phase I Sanitary Sewer		780,378	0%	0	100%	\$ 780,378	0	0	0	0
Enterprise Phase II Sanitary Sewer		59,754	0%	0	100%	\$ 59,754	0	0	0	0
Sub-Total - Sanitary Sewers		23,172,371		0	\$	1,172,371	22,000,000	22,000,000	0	0

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

Location	From / To	Local Cost / by others		ASDC Growth - Related DC Update 2012 based on 2012 Policies Share	Gross Cost (\$)	Cost (\$)	Others Sharing and/or Non-Growth Cost (\$)	Gross others Cost (\$)	Non-growth (\$)
		Share (%)	Cost (\$)						
AREA 42B.9 : MARKHAM CENTRE - EAST PRECINCT									
<u>STRUCTURES</u>									
MC - Frontage St (2 lanes local)		38%	1,054,404	38%	2,811,744	1,054,404	702,936	702,936	0
	Sub-Total - Structures		1,054,404		2,811,744	1,054,404	702,936	702,936	0
<u>STUDIES</u>									
Studies			0	100%	300,000	300,000	0	0	0
	Sub-Total - Studies		0		300,000	300,000	0	0	0
<u>WATER</u>									
Enterprise, Phase II	Rivas Rd. to Main Street S	0	0	85%	429,192	364,813	64,379	64,379	0
E.P. Phase I, Enterprise, Rivas & YMCA Blvd.		0	0	85%	987,017	838,964	148,053	148,053	0
E.P Remaining Watermain Sewers		0	0	100%	582,364	582,364	0	0	0
	Sub-Total - Water		0		1,998,572	1,786,141	212,431	212,431	0
<u>SPECIAL PROJECTS</u>									
	<u>STREETSCAPE</u>		0		0	-	0	0	0
	Sub-Total - Special Projects		0		0	-	0	0	0
	SUBTOTAL AREA 42B.9		1,054,404		57,556,575	33,133,104	23,369,067	23,369,067	0
<u>PROJECTS undertaken by CREDIT AGREEMENT</u>									
			0		0	-	0	0	0
	SUBTOTAL by Credit Agreement		0		0	-	0	0	0
	TOTAL AREA 42B.9		1,054,404		57,556,575	33,133,104	23,369,067	23,369,067	0
Less:	Balance in Reserve Fund as December 31, 2012					5,415,859			
Less:	Credit as per Agreement					-			
	Projects Funded From Reserve					(2,777,753)			
	Total in Development Charge					35,771,210			
	Net Developable Area (Ha.) to Pay New Dev Charge					11.615			
	Development Charge per Net Hectare					3,079,743			

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CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 45A : WISMER

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost		
		Gross Cost (\$)	Share (%)	Cost (\$)	Share based on 2012 Policies	DC Update 2012 Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)	
AREA 45A : WISMER										
<u>ILLUMINATION</u>										
	Sub-Total - Illumination	0		0		0		0	0	0
<u>INTERSECTION</u>										
	Sub-Total - Intersection	0		0		0		0	0	0
<u>ROADS</u>										
	Sub-Total - Roads	0		0		0		0	0	0
<u>SIDEWALKS</u>										
	Sub-Total - Sidewalks	0		0		0		0	0	0
<u>STORM WATER MANAGEMENT</u>										
	Wismer, E / W Storm Sewer	2,269,138	70%	1,580,976	30%	688,163		0	0	0
	Sub-Total - Stormwater Management	2,269,138		1,580,976		688,163		0	0	0
<u>SANITARY SEWERS</u>										
	Sub-Total - Sanitary Sewers	0		0		0		0	0	0
<u>STRUCTURES</u>										
	Sub-Total - Structures	0		0		0		0	0	0
<u>STUDIES</u>										
	Sub-Total - Studies	0		0		0		0	0	0
<u>WATER</u>										
	Sub-Total - Water	0		0		0		0	0	0

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CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 45A : WISMER

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost		
		Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	DC Update 2012 based on 2012 Policies Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)	
AREA 45A : WISMER										
<u>SPECIAL PROJECTS</u>										
	Sub-Total - Special Projects	0		0		0		0	0	0
	SUBTOTAL AREA 45A	2,269,138		1,580,976		688,163		0	0	0
<u>PROJECTS undertaken by CREDIT AGREEMENT Phase I</u>										
<u>STORM WATER MANAGEMENT</u>										
	Exhibition Creek realignment and restoration	465,000	0%	0	50%	232,500		232,500	232,500	0
	Sub-Total - Stormwater Management	465,000		0		232,500		232,500	232,500	0
	SUBTOTAL by Credit Agreement	465,000		0		232,500		232,500	232,500	0
	TOTAL AREA 45A	2,734,138		1,580,976		920,663		232,500	232,500	0
	Less:					(601,625)				
	Less:					(14,259)				
	Balance in Reserve Fund as December 31, 2012									
	Credit as per Agreement									
	Projects Funded From Reserve									
	Total in Development Charge					304,779				
	Net Developable Area (Ha.) to Pay New Dev Charge					31,461				
	Development Charge per Net Hectare					9,688				

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CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 46: CATHEDRAL

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost		
		Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	DC Update 2012 based on 2012 Policies Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)	
AREA 46: CATHEDRAL										
<u>ILLUMINATION</u>										
	Sub-Total - Illumination	0		0		0		0	0	0
<u>INTERSECTION</u>										
	Sub-Total - Intersection	0		0		0		0	0	0
<u>ROADS</u>										
	Sub-Total - Roads	0		0	0%	0	0%	0	0	0
	Sub-Total - Sidewalks	0		0		0		0	0	0
<u>STORM WATER MANAGEMENT</u>										
	Sub-Total - Stormwater Management	0		0		0		0	0	0
<u>SANITARY SEWERS</u>										
	Existing Sanitary Oversizing and Deepening S of Major Mackenzie	205,800	0%	0		205,800	100%	0	0	0
	Woodbine North Relief Sewer to 404 Region Trunk Sewer	770,088	0%	0		539,713	70%	230,375	230,375	0
	Sub-Total - Sanitary Sewers	975,888		0		745,513		230,375	230,375	0
<u>STRUCTURES</u>										
	Sub-Total - Structures	0		0		0		0	0	0

APPENDIX D
TABLE 19 - PAGE 2

CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 46: CATHEDRAL

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related DC Update 2012 Share based on 2012 Policies	Others Sharing and/or Non-Growth Cost		
		Gross Cost (\$)	Share (%)	Cost (\$)	Share		Gross (\$)	others Cost (\$)	Non-growth (\$)
AREA 46: CATHEDRAL									
<u>STUDIES</u>									
	Sub-Total - Studies	0		0		0		0	0
<u>WATER</u>									
Woodbine by-pass (300mm)	Elgin Mills to Lord Melbrone	247,940	85%	210,749	0%	0		37,191	0
	Sub-Total - Water	247,940	85%	210,749	0%	0		37,191	0
<u>SPECIAL PROJECTS</u>									
	<u>STREETSCAPE</u>								
	Sub-Total - Special Projects	0		0		0		0	0
	SUBTOTAL AREA 46	1,223,828		210,749		745,513		267,566	0
<u>PROJECTS undertaken by CREDIT AGREEMENT</u>									
	Exist. Sanitary Oversizing & Deepen by Woodbine Cachet West Inc.	399,500	0%	0	100%	399,500		0	0
	SUBTOTAL by Credit Agreement	399,500		0		399,500		0	0
	TOTAL AREA 46	1,623,328		210,749		1,145,013		267,566	0
Less:	Balance in Reserve Fund as December 31, 2012					632,593			
Less:	Credit as per Agreement					(274,734)			
	Projects Funded From Reserve					-			
	Total in Development Charge					1,502,872			
	Net Developable Area (Ha.) to Pay New Dev Charge					63,210			
	Development Charge per Net Hectare					23,776			

APPENDIX D
TABLE 20 - PAGE 1

CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 47B: YORK DOWNS

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related DC Update 2012 Share based on 2012 Policies Cost	Others Sharing and/or Non-Growth Cost		
		Gross Cost (\$)	Share (%)	Cost (\$)	Gross (\$)		others Cost (\$)	Non-growth (\$)	
AREA 47B: YORK DOWNS									
<u>ILLUMINATION</u>									
	Sub-Total - Illumination	0		0		0	0	0	0
<u>INTERSECTION</u>									
	Sub-Total - Intersection	0		0		0	0	0	0
<u>ROADS</u>									
	Sub-Total - Roads	0		0		0	0	0	0
<u>SIDEWALKS</u>									
	Sub-Total - Sidewalks	0		0		0	0	0	0
<u>STORM WATER MANAGEMENT</u>									
	Sub-Total - Stormwater Management	0		0		0	0	0	0
<u>SANITARY SEWERS</u>									
York Downs Sanitary		1,633,761		0	10%	156,977	1,474,784	1,474,784	0
	Sub-Total - Sanitary Sewers	1,633,761		0		156,977	1,474,784	1,474,784	0
<u>STRUCTURES</u>									
Angus Glen crossing	at Beaver Creek	2,821,837		0	10%	282,184	2,539,654	2,539,654	0
	Sub-Total - Structures	2,821,837		0		282,184	2,539,654	2,539,654	0

APPENDIX D
TABLE 20 - PAGE 2

CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 47B: YORK DOWNS

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost	
		Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	DC Update 2012 based on 2012 Policies Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)
AREA 47B: YORK DOWNS									
STUDIES									
Class E.A. Study - Sewer and Water		17,636			35%	6,200	11,436	11,436	0
External Traffic Study		127,812			35%	44,934	82,878	82,878	0
North Markham Subwatershed Study		29,542			35%	10,386	19,156	19,156	0
	Sub-Total - Studies	174,990				61,521	113,470	113,470	0
WATER									
	Sub-Total - Water	0		0		0	0	0	0
SPECIAL PROJECTS									
	Sub-Total - Special Projects	0		0		0	0	0	0
	SUBTOTAL AREA 47B	4,630,589		0		502,681	4,127,908	4,127,908	0
PROJECTS undertaken by CREDIT AGREEMENT									
No Projects						0	0	0	0
	SUBTOTAL by Credit Agreement	0		0		0	0	0	0
	TOTAL AREA 47B	4,630,589		0		502,681	4,127,908	4,127,908	0
Less:	Balance in Reserve Fund as December 31, 2012					(63,973)			
Less:	Credit as per Agreement					-			
	Projects Funded From Reserve					-			
	Total in Development Charge					448,708			
	Net Developable Area (Ha.) to Pay New Dev Charge					18,219			
	Development Charge per Net Hectare					24,629			

APPENDIX D
TABLE 21 - PAGE 1

CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 49: 404 NORTH EMPLOYMENT LANDS

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost		
		Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	DC Update 2012 based on 2012 Policies Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)	
AREA 49: 404 NORTH EMPLOYMENT LANDS										
<u>ILLUMINATION</u>										
	Sub-Total - Illumination	0		0		0		0		0
<u>INTERSECTION</u>										
	Sub-Total - Intersection	0		0		0		0		0
<u>ROADS</u>										
	Sub-Total - Roads	0		0		0		0		0
<u>SIDEWALKS</u>										
	Sub-Total - Sidewalks	0		0		0		0		0
<u>STORM WATER MANAGEMENT</u>										
	Sub-Total - Stormwater Management	0		0		0		0		0
<u>SANITARY SEWERS</u>										
	Woodbine North Relief Sewer	770,088	0%	0		230,375	30%	539,713	539,713	0
	Woodbine by-pass Sanitary sewer, Phase 1, to Lord Melbourne	4,400,396	0%	0		1,848,166	42%	2,552,230	2,552,230	0
	Sub-Total - Sanitary Sewers	5,170,484		0		2,078,541		3,091,943	3,091,943	0

APPENDIX D
TABLE 21 - PAGE 2

CITY OF MARKHAM
AREA-SPECIFIC DEVELOPMENT-RELATED PROJECTS
AREA 49: 404 NORTH EMPLOYMENT LANDS

Location	From / To	Total		Local Cost / by others		ASDC Growth - Related		Others Sharing and/or Non-Growth Cost		
		Gross Cost (\$)	Share (%)	Cost (\$)	Share (%)	DC Update 2012 based on 2012 Policies Cost	Gross (\$)	others Cost (\$)	Non-growth (\$)	
AREA 49: 404 NORTH EMPLOYMENT LANDS										
<u>STRUCTURES</u>										
	Sub-Total - Structures	0		0		0		0	0	0
<u>STUDIES</u>										
	Sub-Total - Studies	0		0		0		0	0	0
<u>WATER</u>										
Woodbine by-pass (300mm to 400mm)	Lord Melbrone to Woodbine Avenue	627,377	85%	533,270	0%	0	94,107	94,107	94,107	0
	Sub-Total - Water	627,377		533,270		0	94,107	94,107	94,107	0
<u>SPECIAL PROJECTS</u>										
	Sub-Total - Special Projects	0		0		0	0	0	0	0
	SUBTOTAL AREA 49	5,797,860		533,270		2,078,541	3,186,049	3,186,049	3,186,049	0
PROJECTS undertaken by CREDIT AGREEMENT										
NOT APPLICABLE										
	SUBTOTAL by Credit Agreement	0		0		0	0	0	0	0
	TOTAL AREA 49	5,797,860		533,270		2,078,541	3,186,049	3,186,049	3,186,049	0
Less:	Balance in Reserve Fund as December 31, 2012					747,477				
Less:	Credit as per Agreement					-				
Less:	Projects Funded From Reserve					-				
	Total in Development Charge					2,826,018				
	Net Developable Area (Ha.) to Pay New Dev Charge					66,393				
	Development Charge per Net Hectare					42,565				

APPENDIX E

RESERVE FUND BALANCES

APPENDIX E

DEVELOPMENT CHARGES RESERVE FUND BALANCES

Tables 1 and 2 present 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 December 31, 2012 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.

Table 1 displays the reserve fund balances for the City-wide soft services. As at December 31, 2012 the overall balance stood at \$59.6 million. Commitments in the sum of \$13.7 million are unavailable to fund development-related projects and as such, the uncommitted balance of \$45.93 million is brought forward to fund the DC capital programs.

The existing reserve fund balances for the Area-Specific Areas and the City-wide hard reserves are shown on Table 2. The application of the available uncommitted balance in each of the reserve funds is discussed in the appendix section related to each service. 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 cashflow 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 1**

**CITY OF MARKHAM
DEVELOPMENT CHARGE RESERVE FUND BALANCE BY ACCOUNT
FOR CITY-WIDE SOFT SERVICES
YEAR ENDING DECEMBER 31, 2012**

Service	Reserve Fund Balance as at Dec. 31, 2012	Commitments	Uncommitted Reserve Funds
General Government	(\$5,496,378)	(\$731,535)	(\$6,227,913)
Library	(\$2,230,367)	(\$899,252)	(\$3,129,619)
Fire Services	(\$1,841,339)	(\$599,427)	(\$2,440,766)
Indoor Recreation	\$3,293,824	(\$5,813,846)	(\$2,520,022)
Park Development & Facilities	\$52,745,649	(\$5,030,820)	\$47,714,829
Public Works	\$13,169,812	(\$635,410)	\$12,534,401
Total Development Charge Reserves	\$59,641,201	(\$13,710,290)	\$45,930,910

**APPENDIX E
TABLE 2**

**CITY OF MARKHAM
DEVELOPMENT CHARGES RESERVE FUND BALANCES
FOR CITY-WIDE HARD AND AREA-SPECIFIC**

Area	Balance as at December 31, 2012
CWH	\$54,946,843
Area 1B	N/A
Area 4	\$868,650
Area 5	\$532,853
Area 7	\$53,019
Area 8	\$1,166,441
Area 9	(\$1,022,771)
Area 17	(\$224,870)
Area 18	N/A
Area 23	\$0
Area 42A-1	\$365,466
Area 42B	\$53,782
Area 42B-2	(\$153,646)
Area 42B-4	(\$18,065)
Area 42B-6	(\$1,128,921)
Area 42B-8	(\$293,457)
Area 42B-9	(\$5,415,859)
Area 45A	\$601,625
Area 46	(\$632,593)
Area 47B	\$53,973
Area 49	(\$747,477)

APPENDIX F

LONG-TERM CAPITAL AND OPERATING IMPACTS

APPENDIX F
TABLE 1

CITY OF MARKHAM
ESTIMATED NET OPERATING COST OF THE PROPOSED
DEVELOPMENT-RELATED CAPITAL PROGRAM
(in constant 2013 dollars)

	Estimated Operating Costs (\$000)											
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022		
Library Services												
- South East Markham	\$0.0	\$600.0	\$600.0	\$800.0	\$800.0	\$800.0	\$800.0	\$800.0	\$800.0	\$800.0	\$800.0	\$800.0
- Library Expansion	\$0.0	\$600.0	\$600.0	\$600.0	\$600.0	\$600.0	\$600.0	\$600.0	\$600.0	\$600.0	\$600.0	\$600.0
	\$0.0	\$0.0	\$0.0	\$200.0	\$200.0	\$200.0	\$200.0	\$200.0	\$200.0	\$200.0	\$200.0	\$200.0
Fire Services												
- New Facilities	\$0.0	\$0.0	\$0.0	\$0.0	\$1,900.0	\$1,900.0	\$1,900.0	\$1,900.0	\$1,900.0	\$1,900.0	\$1,900.0	\$1,900.0
	\$0.0	\$0.0	\$0.0	\$0.0	\$1,900.0	\$1,900.0	\$1,900.0	\$1,900.0	\$1,900.0	\$1,900.0	\$1,900.0	\$1,900.0
Indoor Recreation												
- Markham Pan Am Centre	\$1,400.0	\$3,200.0	\$3,200.0	\$3,200.0	\$3,200.0	\$3,200.0	\$3,200.0	\$3,200.0	\$3,200.0	\$3,200.0	\$3,200.0	\$3,200.0
- South East Markham Community Centre	\$0.0	\$1,400.0	\$1,400.0	\$1,400.0	\$1,400.0	\$1,400.0	\$1,400.0	\$1,400.0	\$1,400.0	\$1,400.0	\$1,400.0	\$1,400.0
	\$0.0	\$1,800.0	\$1,800.0	\$1,800.0	\$1,800.0	\$1,800.0	\$1,800.0	\$1,800.0	\$1,800.0	\$1,800.0	\$1,800.0	\$1,800.0
Park Development & Facilities												
- Provision for new parks	\$1,165.6	\$1,447.4	\$1,615.8	\$1,794.2	\$1,853.2	\$2,013.0	\$2,200.2	\$2,373.9	\$2,514.4	\$2,572.8	\$2,572.8	\$2,572.8
	\$1,165.6	\$1,447.4	\$1,615.8	\$1,794.2	\$1,853.2	\$2,013.0	\$2,200.2	\$2,373.9	\$2,514.4	\$2,572.8	\$2,572.8	\$2,572.8
Public Works												
- New Works Yards	\$0.0	\$113.0	\$113.0	\$484.0	\$484.0	\$484.0	\$484.0	\$484.0	\$484.0	\$484.0	\$484.0	\$484.0
	\$0.0	\$113.0	\$113.0	\$484.0	\$484.0	\$484.0	\$484.0	\$484.0	\$484.0	\$484.0	\$484.0	\$484.0
ROADS AND RELATED												
- Development-Related Roads Infrastructure	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5
	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5	\$4,196.5
TOTAL ESTIMATED OPERATING COSTS	\$6,762.1	\$9,556.9	\$9,725.3	\$10,474.7	\$12,433.7	\$12,593.5	\$12,780.7	\$12,954.4	\$13,094.9	\$13,153.3	\$13,153.3	\$13,153.3

**APPENDIX F
TABLE 2 - PAGE 1
CITY OF MARKHAM
SUMMARY OF TAX SUPPORTED FUNDING REQUIREMENTS**

Net Capital Cost of Development-Related Projects	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)	2022 (\$000)	TOTAL (\$000)
LIBRARY											
Total Net Cost (1)	3,129.6	14,858.8	0.0	7,601.1	0.0	0.0	0.0	0.0	0.0	0.0	25,589.6
Net Cost From Development Charges (2)	3,129.6	13,372.9	0.0	2,206.7	0.0	0.0	0.0	0.0	0.0	0.0	18,709.3
Net Cost From Non-DC Sources	0.0	1,485.9	0.0	5,394.4	0.0	0.0	0.0	0.0	0.0	0.0	6,880.3
- Discount Portion (3)	0.0	1,485.9	0.0	760.1	0.0	0.0	0.0	0.0	0.0	0.0	2,246.0
- 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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- For Post 2022 Development (5)	0.0	0.0	0.0	4,634.3	0.0	0.0	0.0	0.0	0.0	0.0	4,634.3
FIRE SERVICES											
Total Net Cost (1)	3,665.8	4,324.3	75.0	10,228.9	4,894.5	0.0	0.0	0.0	0.0	0.0	23,188.5
Net Cost From Development Charges (2)	3,665.8	4,324.3	75.0	10,228.9	4,225.0	0.0	0.0	0.0	0.0	0.0	22,519.0
Net Cost From Non-DC Sources	0.0	0.0	0.0	0.0	669.4	0.0	0.0	0.0	0.0	0.0	669.4
- Discount Portion (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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- For Post 2022 Development (5)	0.0	0.0	0.0	0.0	669.4	0.0	0.0	0.0	0.0	0.0	669.4
INDOOR RECREATION											
Total Net Cost (1)	59,612.2	59,932.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	119,544.4
Net Cost From Development Charges (2)	53,902.9	34,665.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88,567.9
Net Cost From Non-DC Sources	5,709.2	25,267.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30,976.5
- Discount Portion (3)	5,709.2	5,993.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11,702.4
- 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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- For Post 2022 Development (5)	0.0	19,274.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19,274.0
PARK DEVELOPMENT & FACILITIES											
Total Net Cost (1)	97,090.9	34,436.6	20,575.5	21,795.6	7,214.4	19,527.2	22,870.3	21,224.7	17,161.9	7,135.1	269,032.2
Net Cost From Development Charges (2)	39,667.0	21,268.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60,935.5
Net Cost From Non-DC Sources	57,423.9	13,168.0	20,575.5	21,795.6	7,214.4	19,527.2	22,870.3	21,224.7	17,161.9	7,135.1	208,096.7
- Discount Portion (3)	9,709.1	3,443.7	2,057.5	2,179.6	721.4	1,952.7	2,287.0	2,122.5	1,716.2	713.5	26,903.2
- Available DC Reserves (4)	47,714.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47,714.8
- Replacement & Benefit to Existing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- For Post 2022 Development (5)	0.0	9,724.4	18,517.9	19,616.0	6,493.0	17,574.5	20,583.3	19,102.3	15,445.7	6,421.6	133,478.6

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) Mandatory 10% reduction for applicable services

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

(5) Post 2022 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 2 - PAGE 2
CITY OF MARKHAM
SUMMARY OF TAX SUPPORTED FUNDING REQUIREMENTS

Net Capital Cost of Development-Related Projects	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)	2022 (\$000)	TOTAL (\$000)
PUBLIC WORKS											
Total Net Cost (1)	9,625.3	11,129.1	1,911.4	8,974.2	108.9	379.1	382.0	375.6	344.0	379.1	33,608.7
Net Cost From Development Charges (2)	0.0	8,220.0	1,911.4	8,974.2	108.9	217.0	0.0	0.0	0.0	0.0	19,431.4
Net Cost From Non-DC Sources	9,625.3	2,909.1	0.0	0.0	0.0	162.1	382.0	375.6	344.0	379.1	14,177.3
- Discount Portion (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)	9,625.3	2,909.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12,534.4
- Replacement & Benefit to Existing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- For Post 2022 Development (5)	0.0	0.0	0.0	0.0	0.0	162.1	382.0	375.6	344.0	379.1	1,642.9
PARKING											
Total Net Cost (1)	0.0	20.0	0.0	237.5	0.0	199.8	0.0	237.5	0.0	0.0	694.7
Net Cost From Development Charges (2)	0.0	18.0	0.0	213.7	0.0	179.8	0.0	213.7	0.0	0.0	625.2
Net Cost From Non-DC Sources	0.0	2.0	0.0	23.7	0.0	20.0	0.0	23.7	0.0	0.0	69.5
- Discount Portion (3)	0.0	2.0	0.0	23.7	0.0	20.0	0.0	23.7	0.0	0.0	69.5
- 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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- For Post 2022 Development (5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL MUNICIPAL SERVICES											
Total Net Cost (1)	173,123.7	124,701.1	22,561.8	48,837.3	12,217.7	20,106.1	23,252.3	21,837.8	17,506.0	7,514.3	471,658.1
Net Cost From Development Charges (2)	100,365.3	81,868.8	1,986.4	21,623.5	4,333.9	396.8	0.0	213.7	0.0	0.0	210,788.4
Net Cost From Non-DC Sources	72,758.4	42,832.3	20,575.5	27,213.7	7,883.8	19,709.3	23,252.3	21,624.1	17,506.0	7,514.3	260,869.7
- Discount Portion (3)	15,418.3	10,924.8	2,057.5	2,963.4	721.4	1,972.7	2,287.0	2,146.2	1,716.2	713.5	40,921.1
- Available DC Reserves (4)	57,340.1	2,909.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60,249.2
- Replacement & Benefit to Existing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- For Post 2022 Development (5)	0.0	28,998.4	18,517.9	24,250.3	7,162.4	17,736.6	20,965.3	19,477.9	15,789.8	6,800.7	159,699.3

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) Mandatory 10% reduction for applicable services

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

(5) Post 2022 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

(6) Roads and Related Capital Program extends to 2031, only however ten-year funding requirements are shown in this table.

APPENDIX G

DRAFT DC BY-LAWS

(AVAILABLE UNDER

SEPARATE COVER)