

## Budget Committee Agenda

No. 4 October 29, 2019, 9:00 AM - 12:00 PM Council Chamber

		Pages			
1.	CALL TO ORDER				
2.	DISCLOSURE OF PECUNIARY INTEREST				
3.	APPROVAL OF MINUTES	2			
4.	BUDGET PRESENTATION	11			
	4.1 2020 Directors Presentation	18			
	4.2 2020 Capital Budget	295			
5.	NEW BUSINESS				
6.	NEXT MEETING DATE				
	The next Budget Committee Meeting will be held on Friday, November 1, 2019.				
7.	ADJOURNMENT				



### **Budget Committee Minutes**

No. 3 October 4, 2019, 9:00 AM - 12:00 PM Council Chamber

Members Councillor Amanda Collucci, Chair Councillor Keith Irish

Councillor Andrew Keyes, Vice-Chair Councillor Reid McAlpine Deputy Mayor Don Hamilton Councillor Karen Rea

Regrets Councillor Khalid Usman

Roll Call Regional Councillor Jim Jones Claudia Storto, City Solicitor and

Councillor Isa Lee Director of Human Resources

Andy Taylor, Chief Administrative Joel Lustig, Treasurer
Officer Bryan Frois, Chief of Staff

Trinela Cane, Commissioner, Corporate Matthew Vetere, Manager, Budgeting

Services

Brian Lee, Director, Engineering Biju Karumanchery, Director of Planning and Urban Design

Brenda Librecz, Commissioner of Community & Fire Services Arvin Prasad, Commissioner

**Development Services** 

#### 1. CALL TO ORDER

The Budget Committee adjourned at 12:33 PM.

#### 2. DISCLOSURE OF PECUNIARY INTEREST

None.

#### 3. APPROVAL OF MINUTES - SEPTEMBER 24, AND 27, 2019

Moved by Councillor Andrew Keyes Seconded by Deputy Mayor Don Hamilton

That the September 24, and 27, 2019 Budget Committee Minutes be approved as presented.

Carried

#### 4. BUDGET PRESENTATION

#### 4.1 Planning and Urban Design Capital Budget Items

Biju Karumanchery, Director of Planning and Urban Design presented the 2020 Planning & Urban Design Capital Budget Items.

#### **Planning Capital Budget Items**

Staff provided the following responses to Committee inquires:

#### 20015 Consolidated Zoning By-Law – LPAT Defense and Refinement

Staff advised that the estimated cost of consolidating the City's zoning by-laws and the LPAT defense associated with the consolidation is based on the cost of similar exercises, such as the cost of updating the City's Official Plan. Staff felt this was a conservative cost estimate.

#### **Design Capital Budget Items**

Staff provided the following responses to Committee inquiries:

#### **General Responses to Inquiries about Parks**

Staff advised that they believe the design and construction of Wismer Park, approved in prior year budgets, has been delayed due to work the City is currently undertaking on the standardization of park amenities such as maintenance buildings. An update on the status of the park was requested to be provided to Councillor Karen Rea and to Councillor Amanda Collucci.

Staff also advised that the City is investigating ways to add more off-leash dog areas in existing Markham parks. The challenge is finding locations that are compatible with the surrounding area.

Richard Fournier, Manager of Parks and Open Space Development advised that he will consult the community on the design of new parks once the plans are refined. The community will be presented with one park design with various options. The types of amenities will be determined based on the type of park.

The City has a policy determining which type of surface is used at a park. A rubberized surface is used at parks with a water play area and sand has traditionally been used at other parks. The City has also used engineered wood chips for play structure surfaces.

The Committee requested that staff report back on the cost of the design and construction of the Berczy Community Park.

## 20024 - Box Grove Community Park - Construction and, 20025 Cornell Community Park Construction

Staff advised that the Box Grove and Cornell Community Parks include a significant number of amenities at a higher cost, as they are community parks, and serve a greater area than local parks.

#### 20026 - Cornell Parkette- Design & Construction

Staff advised that they believe high cost of this pathway is due to the grading, but will report back on the matter. More information was requested to be brought to the next Budget Committee meeting with comparisons to the standards at Wismer and Berczy.

#### 20027 - Leitchcroft Building Construction

Staff advised that the Leitchcroft building will include both a service area and public washrooms.

#### 20029 - Wismer McCowan Woodlot Park - Design & Construction

Staff advised that the in service date of Q4 2021 was accurate.

#### 20030 - York Downs Park - Design and Construction

Staff advised that the City is starting the design of the York Downs Park so that the park is complete when residents start moving into the development.

Moved by Deputy Mayor Don Hamilton Seconded by Councillor Reid McAlpine

That the 2020 Planning Capital Budget items be approved.

Carried

Moved by Deputy Mayor Don Hamilton Seconded by Councillor Keith Irish

That the Budget Committee approve the Design Capital Budget Items.

**Carried** 

#### 4.2 2020 Engineering Budget Presentation and Review of Capital Budget Items

Brian Lee, Director of Engineering presented the "2020 Engineering Capital Budget Presentation".

Staff provided the following responses to Committee inquires:

#### **Engineering Fees**

Staff advised that it can be challenging estimating the revenue collected from Engineering Fees, but the intent is to cover the City's expenses and a reserve equivalent to 1.5 times the annual fee funded operating costs. The Development Fee Reserve deficit was eliminated in 2018. The 2019 year-end forecast has identified draws from reserves from Planning & Design and Engineering which will put the reserve back into a deficit position. A consultant was hired in the late summer to perform a development process review and identify opportunities to improve the review process.

#### ePlan

Staff advised that redundant administrative tasks, like data entry have been eliminated with the implementation of ePlan.

#### Support Services Charged by the City

Staff advised that the Engineering Department's cost of support services charged by other tax based City departments has increased in 2020 mainly due to an increase in the cost of ITS contracts. All City departments share the cost of ITS contracts.

Councillor Reid McAlpine requested a breakdown of the cost of support service charged to the Engineering Department by other tax based City departments.

#### **Gridlock**

Staff advised that they are undertaking the following actions to address gridlock in Markham:

- Permitting higher density development in areas with rapid transit;
- Strategically building sidewalks and cycling lanes;
- Educating the public on alternative ways to get around the City or to commute to work;
- Prioritizing road work that will improve traffic flow;
- Partnering with other levels of of government to improve transit in Markham.
- Traffic Signals and Bus Stop Locations

Staff advised that when there is a reconstruction of an existing area or a new development the location of traffic signals and bus stops are determined through the environmental assessment. City staff and other stakeholders provide input regarding the location of traffic signals and bus stops.

A Committee Member noted that residents have been complaining about the following: 1) trees interfering with the visibility of traffic signals in some areas of Markham; and 2) that there are no crosswalks or traffic signal where bus stops are located.

#### Photo Radar

Staff advised that they are speaking to York Region regarding the possible implementation of photo radar now that it is legally permitted. A report on road safety will be brought forward to a future Development Services Committee.

#### **Engineering Capital Budget Items**

Staff provided the following responses to Committee inquires:

#### 20031 – 404 North District Water Supply

Staff advised that they are proceeding with the installation of a second watermain and system security for the 404 North District, as it is needed by residents and businesses in the area. This work was not anticipated in the last Development Charges Background Study update and will be included in the next update.

#### 20032 – Active Transportation Program

Staff provided a high-level overview of the Cycling & Pedestrian Committee budget. The funds are spent on cycling awareness activities, including the Transportation Expo.

Committee deferred this item, as they requested a breakdown of how all of the funds are being spent.

#### The approval of this item was deferred.

#### 20033 – Denison Street Extension Environmental Assessment

Staff advised that the extension of Denison Street in this section of the road is costly due to the environmental sensitivity of the area, but the extension is imperative as there are few roads going east west in the Box Grove area due to the constraint of the Rouge River.

#### 20036 - Honda Blvd Extension

Staff advised that this project will be funded by Development Charges. An environmental assessment is required, as the road network cannot be disrupted. This work was not anticipated in the last Development Charges Background Study update and will be included in the next update.

#### 20037 - Main Street Unionville Road Construction

Staff advised that this capital budget item is to approve the design portion of the Main Street Unionville Road re-construction. Heritage Staff are working with the community on the design of the street. Staff are also working with the Director of Operations to determine what the City is able to maintain on a long-term basis. It was anticipated that the design of the Main Street Unionville will be complete in the end of 2020 or in early 2021. All project costs are based on other recent similar City projects.

The following feedback from the Committee was provided on this item:

- Ensure the City learns from the reconstruction of Main Street Markham, and the issues that were experienced;
- Requested that the re-construction of the streetscape include the Varley Art Gallery, suggesting that the Gallery should be drawn into the streetscape.

Staff agreed to bring back these suggestions to the team working on the project.

#### 20039 - Markham Centre Trail System

Staff advised that they will be seeking Council's direction on the phasing of the Citywide trail system, and confirmed that this portion of the trail will go over the Stouffville GO line.

#### 20040 – New Traffic Signals –Kirkham/New Delhi (D & C)

Staff advised that traffic signals are being added to the intersection of Kirkham and New Delhi to improve the safety of the intersection. The intersection is far enough from Markham Road to permit enough space for queuing.

A Committee Member noted that the traffic signal will need to be timed with the traffic signals at Markham Road. They also questioned how the traffic signal will impact the gas station located at Markham Road and 16th Avenue.

Staff agreed to do a traffic analysis in regards to this inquiry and report back at a future Budget Committee meeting.

This item was pulled until staff report back.

#### 20042 - Rouge Valley Trail (Kennedy Road North) - Design

Committee suggested that the City needs to think about its wayfinding on the Rouge Valley Trail, as residents are getting lost.

A Committee Member also suggested that the City should investigate the possibility of providing some funding to Milliken Cycles.

#### 20043- Update on Markville Secondary Plan

A Committee Member requested that a meeting be set-up with York Region to discuss this project, and suggested that the entrance to FoodyMart be closed off.

The approval of this capital budget item along with project 20052 was deferred until Staff report back with additional information.

#### The approval of this item was deferred.

#### 20045 – Sidewalk Program Design

Staff advised that Windridge work would be removed and agreed to add Elgin Street to this year's sidewalk program.

#### 20046 - Smart Commute Markham-Richmond Hill

Staff advised that Smart Commute has reduced its services and maintained its core services in light of recent reductions to funding. Both York Region and Richmond Hill are retaining their contributions to the program. The City supports this program, as it strives to change behavior, and promote public awareness regarding ride sharing and other alternative ways to commute to work.

Committee requested that Smart Commute be invited to the next Budget Committee to provide a presentation on its program.

The approval of this capital budget item was deferred until after the presentation from Smart Commute.

#### The approval of this item was deferred.

#### 20048 – Streetlight Program Construction

The approval of this capital budget item was deferred until Staff report back with additional information.

#### This approval of this item was deferred.

#### 20050 – Traffic Asset Replacement

Staff advised that it is the City's preference is to rotate the traffic boards versus having them in fixed locations, as overtime residents will stop abiding to them.

Committee requested that City purchase eight additional speed boards in addition to replacing the two board at the end of lifecycle.

The approval of this capital budget item was deferred until Staff report back on the additional speed boards.

#### This approval of this item was deferred.

#### 20052 – Transportation Study – Markville Secondary Plan

Committee suggested that all Markham Secondary Plan items should be approved as one project.

Staff advised that a holistic view is being taken with respect to the approval of each project related to the Markville Secondary Plan. Funding options for this project are still being determined.

Staff also advised that the Transportation for Tomorrow Study is conducted by the University of Toronto to understand how GTA residents travel on a daily basis. The results of the study are used to forecast transportation models, and funding.

The approval of this capital budget item along with project 20043 was deferred until Staff report back with additional information.

#### This approval of this item was deferred.

#### Major Mackenzie - Highway 48

Staff advised that York Region has plans to extend the Donald Cousens By-Pass in the next ten years. The funds have been diverted to other priority projects in the short-term. This matter can be discussed further at the October 15, 2019 Development Services Committee meeting when the report on York Region's Capital Acceleration Program is discussed.

It was noted that the extension of the By-Pass is required to alleviate traffic congestion in the area.

Staff were requested to advise Regional Councillor Jones if there were funds put aside in a previous budget for the Mount Joy Visioning Project.

Moved by Councillor Reid McAlpine Seconded by Councillor Karen Rea

That the Budget Committee approve the Engineering Capital Budget Item (excluding item Nos. 20032, 20040, 20043, 20046, 20048, 20050, and 20052).

Carried

#### 5. NEW BUSINESS

Brenda Librecz, Commissioner of Community & Fire Services provided an update on the potential school closures due to labour disruptions and the potential impacts to the City. It was also noted that the City will be offering a camp for staff and residents children if there is a strike.

#### 6. NEXT MEETING DATE

Joel Lustig, Treasurer advised that staff are investigating the possibility of adding two additional meetings.

The next meeting of the Budget Committee will be held on October 29, 2019, at 9:00 AM in the Council Chambers.

#### 7. ADJOURNMENT

The Budget Committee adjourned at 12:33 PM.











## **Agenda**

- 1. Review minutes of the October 4 Budget Committee meeting #3
- 2. Continuation of Director Presentations and Capital Budget Review
- 3. Next Steps





### **Review minutes of the October 4 Budget Committee meeting**

Refer to Appendix A





## **Director Presentations & Capital Budget Review**

Order of presentations and review (Budget Committee meetings #4-9)

- 1. Development Services
- Building Standards: Chris Bird
- 2. Corporate Services
- Information Technology Services: Nasir Kenea
- Financial Services: Joel Lustig
- Sustainability & Asset Management: Graham Seaman
- Legislative Services & Corporate Communications & Community Engagement: Kimberley Kitteringham





## **Director Presentations & Capital Budget Review**

Order of presentations and review (Budget Committee meetings #4-9)

- 3. CAO Commission
- Human Resources: Claudia Storto
- Legal Services: Claudia Storto
- 4. Community & Fire Services
- Fire & Emergency Services: Dave Decker
- Recreation Services: Mary Creighton
- Operations: Morgan Jones
- > Environmental Services: Phoebe Fu
- Markham Public Library: Catherine Biss





### 5. Next Steps

Continuation of Director presentations and review of 2020 Capital Budget by exception

Budget Committee Meeting #5: Friday, November 1, 2019 – 9:00 a.m. – 12:00 p.m.

Budget Committee Meeting #6: Tuesday, November 5, 2019 – 9:00 a.m. – 12:00 p.m.

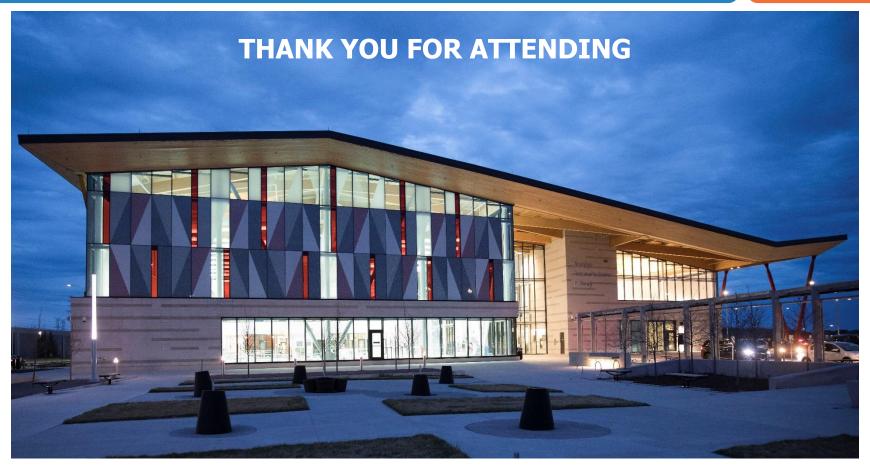
Budget Committee Meeting #7: Wednesday, November 6, 2019 – 9:30 a.m. – 12:00 p.m.

Budget Committee Meeting #8: Thursday, November 7, 2019 – 9:30 a.m. – 12:00 p.m.

Budget Committee Meeting #9: Friday, November 8, 2019 – 9:00 a.m. – 12:00 p.m.









#### **2020 BUDGET – DIRECTOR PRESENTATIONS**

#### **Development Services**

Economic Development & Culture Presentation

Planning & Design Presentation

Engineering Presentation

Building Standards Presentation

**Corporate Services** 

ITS Presentation

Finance Presentation

Sustainability & Asset Management Presentation

Legislative Services & Corporate Communications Presentation

**CAO's Office** 

Human Resources Presentation

Legal Department Presentation

**Community and Fire Services** 

Fire and Emergency Services Presentation

Recreation Services Presentation

Markham Public Library Presentation

Operations Presentation

Environmental Services Presentation





# Economic Growth, Culture & Entrepreneurship

2020 Budget Stephen Chait





## Agenda

- 1. Department Introduction
- 2. Organizational Chart
- 3. Operating Budget
- 4. Responsibilities
- 5. Summary
- 6. 2020 Capital Budget Requests



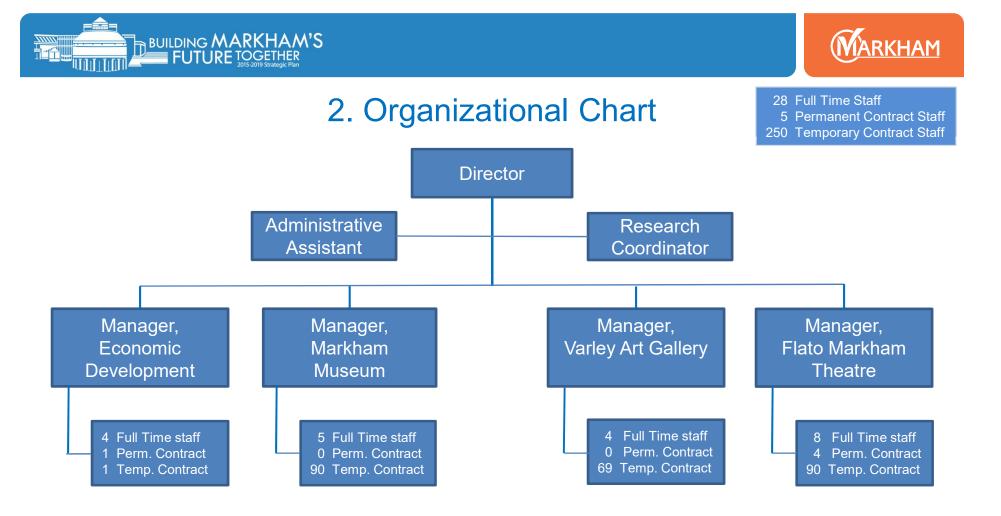


## 1. Department Introduction

The Department is comprised of four business units:

- Economic Development
- Markham Museum
- Varley Art Gallery
- Flato Markham Theatre

Culture







## 3. Operating Budget – Economic Development (Summary)

				Budget 2020 vs. 2019	
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
	\$	\$	\$	\$	%
Revenues	342,352	189,834	189,834	0	0.0%
Expenses	<u>1,976,082</u>	<u>1,797,922</u>	<u>1,818,477</u>	<u>20,555</u>	<u>1.1%</u>
Net Expenditures/(Revenues)	1,633,730	1,608,088	1,628,643	20,555	1.3%





## 3. Operating Budget – Economic Development (Revenues)

				Budget 2020 vs. 2019	
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
<u>Revenues</u>	\$	\$	\$	\$	%
GRANT & SUBSIDY REVENUE					
<b>Provincial Grants</b>	337,130	168,500	168,500	0	0.0%
USER FEES and CHARGES	722	10,500	10,500	0	0.0%
OTHER REVENUE	<u>4,500</u>	<u>10,834</u>	<u>10,834</u>	<u>0</u>	0.0%
Total Revenues	342,352	189,834	189,834	0	0.0%





## 3. Operating Budget – Economic Development (Expenses)

				Budget 202	0 vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
Expenses	\$	\$	\$	\$	%
SALARIES and BENEFITS	1,025,169	1,034,374	1,054,929	20,555	2.0%
MATERIALS and SUPPLIES					
Printing, office and administrative supplies	14,902	21,709	21,709	0	0.0%
PURCHASED SERVICES					
Business development missions,	535,570	390,356	390,356	0	0.0%
programs, conferences					
Venture Labs support	352,253	309,346	309,346	0	0.0%
Membership fees	20,980	7,700	7,700	0	0.0%
Other purchased services	<u>27,208</u>	<u>34,437</u>	<u>34,437</u>	<u>0</u>	0.0%
Total Expenses	1,976,082	1,797,922	1,818,477	20,555	1.1%





## 3. Operating Budget – Culture (Summary)

	<b>2018 Actual</b> \$	<b>2019 Budget</b> \$	Preliminary 2020 Budget \$	Budget 2020 Increase/ (Decrease) \$	0 vs. 2019 Change %
Revenues	4,052,819	4,245,818	4,312,949	67,131	1.6%
Expenses	<u>6,511,366</u>	6,252,741	<u>6,334,667</u>	<u>81,926</u>	<u>1.3%</u>
Net Expenditures/(Revenues)	2,458,547	2,006,923	2,021,718	14,795	0.7%





## 3. Operating Budget – Culture (Revenues)

			Preliminary	Budget 2020 Increase/	0 vs. 2019
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
Revenues	\$	\$	\$	` <b>\$</b>	%
GRANT & SUBSIDY REVENUE					
Provincial and Federal grants	281,204	198,635	198,635	0	0.0%
GENERAL REVENUE					
Wedding photo permits	6,028	6,000	6,000	0	0.0%
USER FEES and CHARGES					
Program registration fees and rentals	1,672,164	1,839,925	1,868,478	28,553	1.6%
Theatre ticket sales, handling charges and staff charges	1,592,943	1,643,144	1,675,307	32,163	2.0%
Corporate sponsorship	234,867	310,000	314,800	4,800	1.5%
Other user fees and charges	107,389	80,761	82,376	1,615	2.0%
OTHER REVENUE					
Donations and fundraising	<u>158,224</u>	<u>167,353</u>	<u>167,353</u>	<u>0</u>	0.0%
Total Revenues	4,052,819	4,245,818	4,312,949	67,131	1.6%





## 3. Operating Budget – Culture (Expenses)

		•		Budget 2020	vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
Expenses	\$	\$	\$	\$	%
SALARIES and BENEFITS	3,878,319	3,742,695	3,824,069	81,374	2.2%
MATERIALS and SUPPLIES					
Program and exhibit supplies	212,485	256,369	253,369	(3,000)	-1.2%
Printing, office and administrative supplies	60,980	75,654	74,454	(1,200)	-1.6%
Building maintenance supplies	34,341	31,034	31,034	0	0.0%
PURCHASED SERVICES					
Artist/Entertainer and professional fees	1,237,856	1,042,981	1,063,841	20,860	2.0%
Advertising	354,301	347,003	347,003	0	0.0%
Utilities	299,142	300,402	300,402	0	0.0%
Facility maintenance and security	274,944	266,833	286,500	19,667	7.4%
Other purchased services	111,311	154,770	118,995	(35,775)	-23.1%
TRANSFERS TO/(FROM) RESERVES	<u>47,687</u>	<u>35,000</u>	<u>35,000</u>	<u>0</u>	0.0%
Total Expenses	6,511,366	6,252,741	6,334,667	81,926	1.3%





### 4. Responsibilities -- Economic Development

#### Core business areas include:

- Business attraction and retention
- Business start-ups and commercialization
- Innovation and entrepreneurship
- Economic strategy
- Strategic partnership development and enhancement

















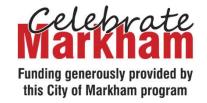
















### 4. Responsibilities -- Economic Development

In 2018/19 the 3 Economic Development + 2 MSBC staff:

- Helped grow priority sector jobs by 3.5% (est. 80,000 in total)
- Engaged York U, Seneca Helix, ventureLAB & YSPACE in Markham new business
- Achieved Amazon's "Top 10" list
- Promoted Markham at "Web Summit" (Lisbon) & at "Collision" (Toronto)
- Launched "The MiX" innovation district & "Destination Markham" strategy

#### Key goals and projects for 2020 include:

- Promote Phase One development of "The MiX"
- Develop new 10-year Economic Development Strategy
- Represent Markham at "Collision 2020" (Toronto)
- Conduct business missions to USA and Asia
- Launch new social media and video campaigns to promote investment in Markham





## 4. Responsibilities -- Markham Museum





#### Core business areas include:

- Interpretive exhibits and presentations
- Summer, winter and March break camps
- Art classes and professional development
- Archives and restoration & preservation of historic buildings
- Private event rentals, storage & performance space for arts groups
- Serves as a cultural and creative hub

















## Responsibilities -- Markham Museum

In 2018/19 the Museum attracted 60,000 visitors:

- Sold out summer camps
- Record level of rental revenue
- Began to implement strategic plan
- Hosted numerous events & festivals including 225<sup>th</sup> Anniversary of Berczy settlers
- Updated and culled museum's collection

#### Key goals and projects for 2020 include:

- Achieve new record of rental revenue
- Help host Ontario Heritage Conference & other festivals and events
- Complete restoration of buildings to accommodate meetings & weddings
- Expand camp and educational training programs
- Pursue opportunity to host archives of indigenous artefacts





### 4. Responsibilities -- Varley Art Gallery



#### Core business areas include:

- Schedule of rotating themed exhibitions
- Art camps in summer, winter and March break
- Art classes and professional development
- McKay Art Centre show and studio space
- Public Art policies and Master Plan
- Public Art collection and program administration





















### 4. Responsibilities -- Varley Art Gallery

In 2018/19 the Varley Art Gallery attracted 45,000 visitors:

- Sold out summer camps
- Record level of rental revenue
- Record revenue from gala fundraiser event
- Commenced Public Art Master Plan
- Adopted new logo and signage

Key goals and projects for 2020 include:

- Achieve new record level of rental revenue
- Adopt & implement new 2020-2024 Public Art Master Plan
- Year One of 3-year agreement to mount York U student exhibitions
- Expand exhibitions and events
- Implement new strategic plan





### 4. Responsibilities -- Flato Markham Theatre





#### Core business areas include:

- Diamond Series of 50+ shows and performances
- Summer theatre camps at FMT and in the community
- Discovery workshops and performances
- Theatre rental space
- Teaching & performance facilities for Unionville High School
- Strategic and marketing support for Destination Markham

















2 LOCATIONS:
Cornerstone Centre
Flato Markham Theatre
Before & After Care Available
at both locations









### 4. Responsibilities -- Flato Markham Theatre

In 2018/19 the Theatre attracted 130,000 customers:

- Sold out summer camps
- Record level of rental revenue and gala fundraising revenue
- Began to implement strategic plan
- Operated with effectively 100% occupancy level
- Adopted new brand and logo

Key goals and projects for 2020 include:

- Install new Theatre signage
- Launch Performing Arts Foundation
- Expand "Discovery Series" to serve more students
- Offer York U student internships





#### 5. Summary

Markham has talented, innovative, productive & efficient staff.

- Cultural venues are dependent on retaining contract & part-time staff
- Economic Devt. has experienced reduction in staffing and in annual marketing funds while competing with other more aggressive jurisdictions
- Revenue growth is limited by capacity and market competition

To remain successful and to service a growing community, Markham needs to:

- Continue to maintain, upgrade & expand cultural venues & programs
- Increase investment in economic development programs and staffing





### 6. 2020 Capital Budget Requests

# See capital budget request forms (e-file)





# Planning & Urban Design

2020 Budget

Biju Karumanchery
Director, Planning & Urban Design Department





## **Agenda**

- 1. Department Introduction
- 2. Organizational Chart
- 3. Operating Budget
- 4. Responsibilities
- 5. Summary
- 6. 2020 Capital Budget Requests





### 1. Department Introduction

The Planning and Urban Design Department works to create the built form in the community and sustain it's quality of life. We plan for future generations and guide and direct the implementation of the community's vision and values on a day to day basis.

The Department is comprised of three divisions:

- Policy & Research
- Development Control
- Urban Design & Parks Construction





#### Policy & Research

- Policy
- Natural Heritage

#### Development Control

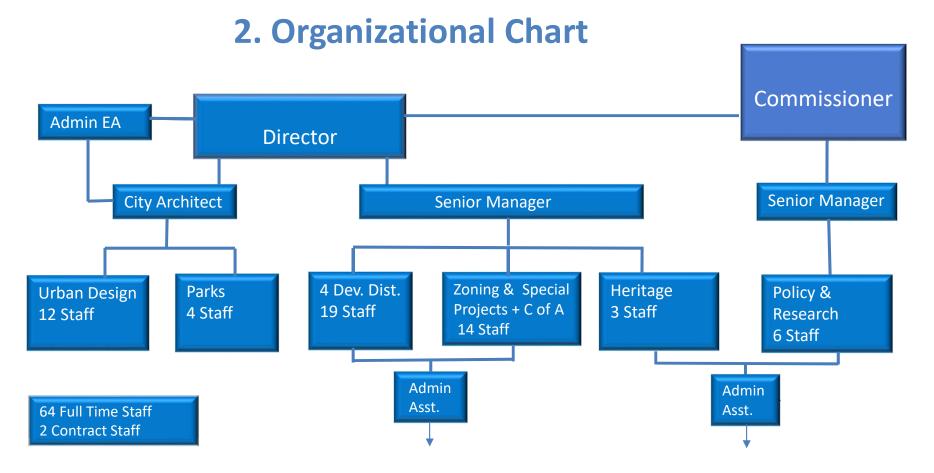
- 4 Development Districts
- Heritage
- Zoning & Special Projects
  - Committee of Adjustment
  - Geomatics
  - Service Counter

#### Urban Design

- Design
- Parks (Design & Construction)











				Budget 2020	vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
	\$	\$	\$	\$	%
Revenues	13,719,438	11,863,445	10,500,000	(1,363,445)	-11.5%
Expenses	<u>8,031,445</u>	9,792,760	9,953,994	<u>161,234</u>	<u>1.6%</u>
Net Expenditures/(Revenues)	(5,687,993)	(2,070,685)	(546,006)	1,524,679	-73.6%
Transfer to Reserves	5,687,993	2,070,685	546,006	(1,524,679)	-73.6%
Net Expenditures/(Revenue) after transfer to reserve	0	0	0	0	0

Note: 2020 revenue budget subject to change





#### **Revenues**

		2010 A atual	2010 Budgat	Preliminary	Budget 2020 Increase/	
Revenues		2018 Actual	2019 Budget	2020 Budget \$	(Decrease)	Change %
USER FEES and CHARGES - Planning Processing Fees	ר	<u> </u>	<b>,</b>	Ÿ	<b>Y</b>	
- Landscape Administration Fees - Committee of Adjustment Application Fees	}	13,719,438	11,863,445	10,500,000	(1,363,445)	<u>-11.5%</u>
- Capital Administration Fees  Total Revenues	J	13,719,438	11,863,445	10,500,000	(1,363,445)	-11.5%

Note: 2020 revenue budget subject to change





#### **Expenses**

				Budget 202	0 vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
<u>Expenses</u>	\$	\$	\$	\$	%
SALARIES and BENEFITS	5,499,015	7,074,075	7,072,779	(1,296)	0.0%
MATERIALS and SUPPLIES					
Office and administrative supplies	35,607	40,700	40,700	0	0.0%
PURCHASED SERVICES					
Support services charge from City	2,368,556	2,527,248	2,689,778	162,530	6.4%
Membership fees	35,377	36,000	36,000	0	0.0%
Training and conferences	57,279	50,800	50,800	0	0.0%
Credit card processing fees	4,152	20,000	20,000	0	0.0%
Planning consulting	753	16,637	16,637	0	0.0%
Phones	6,749	12,000	12,000	0	0.0%
Other purchased services	23,957	<u>15,300</u>	<u>15,300</u>	<u>0</u>	0.0%
Total Expenses	8,031,445	9,792,760	9,953,994	161,234	1.6%





### 4. Responsibilities

#### Policy & Research Division

#### Function: Long Term Land Use Planning

- Growth management
- Official Plan and Secondary Plans
- Ensure Conformity within Provincial and Regional Planning Policy
- Natural Heritage Planning, Protection & Enhancement
- Policy Studies (e.g., affordable housing)
- Data analysis, forecasts, monitoring of land use





#### **Development Division**

#### **Function: Development Control**

- · Receive and circulate applications
- Coordinate, review and make recommendations on applications
- Appear at LPAT hearings as necessary
- Undertake Special Projects (eg. New Zoning By-law Update, Secondary Plan Studies, Driveway extension by-law, E-plan review)
- Respond to enquiries
- Draft, maintain and consolidate Zoning By-law Amendments
- Prepare and maintain Digital Mapping and related functions





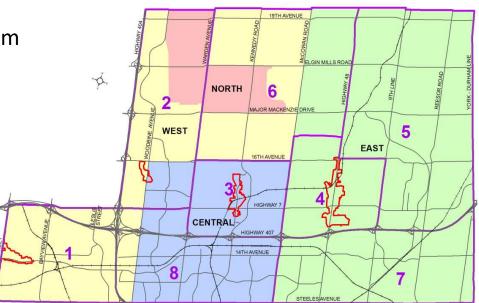
Ward Boundaries

### **Development Districts with Ward Boundaries**



#### **DEVELOPMENT SECTION INCLUDES:**

Four District Teams + Heritage Team







### Planning & Urban Design Application Activity

	Number Received 2018	5 Year Average (2014 – 2018)
Site Plan Control	75	78
Official Plan Amendments	9	11
Subdivisions	10	11
Zoning By-law Amendments	35	39
Minor Variance	183	194
Land Severance	27	32
Condominium	8	8
Part Lot Control	17	18





#### Heritage Section

#### Function: Protection and Conservation of Cultural Heritage Resources

- Process applications and Heritage Permits (in 4 heritage conservation districts)
- Review Building, Demolition, Signage, Tree Removal Permits
- Offer professional advice/support/direction for Committees of Council
- Provide Public information and outreach programs/events.
- Research, evaluate and designate heritage properties
- Develop/ review Planning and Heritage related policy (Secondary Plans, Heritage Districts)
- Manage all aspects of Markham Heritage Estates subdivision
- Administer all Heritage financial assistance programs





### Heritage Application Activity

	Number Received 2018	5 Year Average (2014 – 2018)
Heritage Permits	61	69
Heritage Site Plans	25	29
Building and sign permits (reviewed by Heritage)	73	90
Demolition Permits (reviewed by Heritage)	6	10
Other Heritage Applications (OPA, ZBA, SU, C of A, etc.)	59	75





### **Design Section**

#### Function: Built Form Design and Landscaping review

- Address all design aspects of Development Applications.
- Address landscaping requirements for all private and public projects.
- Manage Special District Studies: Precinct Plans, Community Design Plans, Streetscape Plans, Component of Secondary Plans, Urban Design Studies.
- Manage and/or participate in Special City Wide Studies / City projects.
- Inspect, assess and address streetscape and landscaping.





### **Parks Section**

#### Function: Parks Design and Construction

- Undertake comprehensive park Planning, Budgeting, Design and Construction
- Engage in community consultation on park design as appropriate
- Provide for a full range of social, cultural and environmental needs
- Demonstrate leadership and innovation in park design and development
- Create sustainable (ie. financial & environmental) parks











### Parks Activity

	Completed in 2018	Completed in 5 year period (2014 to 2018)
Number of Parks + park buildings Completed	13 + 1	50 + 2
Hectares (acres) of parks completed	10.8 hectares (26.8 acres)	46.7 hectares (115.3 acres)





### 5. Summary

- 2018
  - Revenues higher than forecast / Expenses lower than forecast
- 2019
  - Revenues lower than forecast / Expenses lower than forecast
- 2020
  - Revenues forecasted to be lower than 2018 and 2019
  - Number of applications trending lower compared to 5 year average
  - Related to Provincial changes including Bill 108 Community Benefits
     Charges





# 6. 2020 Capital Budget Requests

# See capital budget request forms (e-file)





# **Engineering**

2020 Budget

**Brian Lee Director, Engineering** 





# Agenda

- 1. Department Introduction
- 2. Organizational Chart
- 3. Operating Budget
- 4. Responsibilities
- 5. Summary
- 6. 2020 Capital Budget Requests





### 1. Department Introduction

The Engineering Department plays a key role in city building and collaborate with others.

The Department is comprised of four business units:

- Development & Environmental Engineering
- Transportation
- Infrastructure & Capital Projects
- Municipal Inspections





## 2. Organizational Chart







				Budget 2020	0 vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
	\$	\$	\$	\$	%
Revenues	10,555,126	8,932,747	10,162,540	1,229,793	13.8%
Expenses	<u>7,934,632</u>	<u>8,258,974</u>	<u>8,661,860</u>	<u>402,886</u>	<u>4.9%</u>
Net Expenditures/(Revenues)	(2,620,494)	(673,773)	(1,500,680)	(826,907)	122.7%
Transfer to Reserves	2,620,494	673,773	1,500,680	826,907	122.7%
Net Expenditures/(Revenue) after transfer to reserve	0	0	0	0	0

Note: 2020 revenue budget subject to change





# 3. Operating Budget - Revenues

				Budget 202	0 vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
Revenues	\$	\$	\$	\$	%
USER FEES and CHARGES					
- Engineering Fees					
- Capital Administration Fees	<b>-</b> 10,555,126	8,932,747	10,162,540	1,229,793	13.8%
- Planning Processing Fees	10,333,120	6,932,747	10,102,340	1,229,793	13.0/0
- Residential Infill Fees					
Total Revenues	10,555,126	8,932,747	10,162,540	1,229,793	13.8%

Note: 2020 revenue budget subject to change





# 3. Operating Budget - Expenses

				Budget 2020	0 vs. 2019
	2040 A	2040 D. I. i.	Preliminary	Increase/	<b>6</b> 1
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
<u>Expenses</u>	\$	\$	\$	\$	%
SALARIES and BENEFITS	5,333,691	5,513,941	5,704,960	191,019	3.5%
MATERIALS and SUPPLIES					
Printing, office and administrative supplies	17,765	33,300	33,300	0	0.0%
PURCHASED SERVICES					
Support services charge from City	2,504,629	2,583,811	2,795,678	211,867	8.2%
Membership fees	24,249	20,722	20,722	0	0.0%
Phones	14,792	19,500	19,500	0	0.0%
Engineering consulting	9,732	18,600	18,600	0	0.0%
Staff training	5,042	13,500	13,500	0	0.0%
Staff attendance at conferences	8,360	10,000	10,000	0	0.0%
Credit card processing fees	0	20,722	20,722	0	0.0%
Other purchased services	<u>16,372</u>	<u>24,878</u>	<u>24,878</u>	<u>0</u>	0.0%
Total Expenses	7,934,632	8,258,974	8,661,860	402,886	4.9%





# 4. Responsibilities





# 4. Development & Environmental Engineering

#### **Development Engineering**

- Approves engineering design of subdivisions and site plans
- Prepares development agreements

#### **Environmental Engineering**

 Manages water resources and natural environmental impact Advises on soil and groundwater contamination





# 4. Development & Environmental Engineering

#### **Recent Achievement**

Eliminated deficit in the Development Reserves through record high fees (2018)

#### **External Changes & Risk Management**

- Quality of submission and changing legislation
- Redevelopment/intensification of existing urban areas

#### **Innovation & Continuous Improvement**

New policies, process streamlining and automation





### 4. Transportation

#### **Transportation Planning**

- Approves transportation plans of subdivisions and site plans
- Promotes alternative modes of transportation

#### **Traffic Engineering**

- Addresses traffic operational matters
- Maintains traffic control system
- Establishes traffic bylaws





### 4. Transportation

#### **Recent Achievement**

Successfully negotiated the transportation improvements to a major development

### **External Changes & Risk Management**

External growth in South York Region

Environmental impact of transportation

### **Innovation & Continuous Improvement**

- Better coordination of land use and transportation planning
- Improve safety for all road users





## 4. Infrastructure & Capital Projects

### **Infrastructure & Capital Projects**

- Delivers capital projects
- Reviews & Coordinates capital projects of other jurisdiction

### **Contract Administration & Quality Control**

Oversees construction and project management of capital projects





### 4. Infrastructure & Capital Projects

#### **Recent Archievements**

 Opened another section of the Rouge Valley Trail with a pedestrian bridge over the Milne Dam.

### **External Changes & Risk Management**

- Changing legislation at the Provincial level
- Price of projects and quality of construction

### **Innovation & Continuous Improvement**

Use of in-house contract administration to control costs and time schedules





### 4. Municipal Inspections

### **Municipal Inspections**

- Inspects the building of subdivisions and site plans
- Administers the development agreements
- Approves streetlight design
- Administer the grading and service connection process for residential in-fills.





## 4. Municipal Inspections

#### **Recent Achievement**

Streamlined the acceptance for maintenance, assumption processes

### **External Changes & Risk Management**

- Quality control of construction
- Construction in existing neighbourhoods
- Balancing and distributing of resources

### **Innovation & Continuous Improvement**

Process automation





### 5. Summary

### **Excellence in City Building**

- New business units were established to meet new needs.
- Process improvements and efficiencies allow the department to remain effective
- Focus more time/effort to creative work and automate repetitive and low value work
- Improve financial accountability and monitoring
- Balance resource and risk exposure to the Corporation





## 6. 2020 Capital Budget Requests

## See capital budget request forms (e-file)





# **Building Standards**

2020 Budget

**Chris Bird Director of Building Standards** 





## Agenda

- 1. Department Introduction
- 2. Organizational Chart
- 3. Operating Budget
- 4. Responsibilities
- 5. Summary
- 6. 2020 Capital Budget Requests





### 1. Department Introduction

The Building Standards department includes the office of the Chief Building Official and inspectors who are qualified and registered by the Province of Ontario and appointed to these official duties by Council

Departmental responsibilities are accomplished by a team of qualified professional staff, who undertake technically proficient, timely and cost effective building permit and inspection services in a progressive and responsive manner





## 2. Organizational Chart











#### **Revenues:**

- Permit & administrative fees:
  - Prescribed by Building By-law [By-law #2019-20]
  - Cannot exceed the 'anticipated reasonable cost' of enforcement
  - By-law and fees reviewed annually

### **Expenses:**

- Direct Costs [Salaries]
- Indirect Costs [Support service charge from City]





				Budget 2020	vs. 2019
			Preliminary	Increase/	
	<b>2018</b> Actual	2019 Budget	2020 Budget	(Decrease)	Change
	\$	\$	\$	\$	%
Revenues	11,890,646	7,950,476	8,025,476	75,000	0.9%
Expenses	<u>8,488,126</u>	<u>9,332,205</u>	<u>9,534,885</u>	<u>202,680</u>	<u>2.2%</u>
Net Expenditures/(Revenues)	(3,402,520)	1,381,729	1,509,409	127,680	9.2%
Transfer to/(from) Reserves	3,402,520	(1,381,729)	(1,509,409)	(127,680)	9.2%
Net Expenditures/(Revenue) after transfer to/(from) reserve	0	0	0	0	0

Note: 2020 revenue budget subject to change





## 3. Operating Budget - Revenues

	2018 Actual	2019 Budget	Preliminary 2020 Budget	Budget 2020 Increase/ (Decrease)	0 vs. 2019 Change
Revenues	\$	\$	\$	\$	%
GENERAL REVENUES					
Building permits	11,790,977	7,920,336	7,955,456	35,120	0.4%
USER FEES and CHARGES					
Compliance letters and information sales	<u>99,669</u>	<u>30,140</u>	<u>70,020</u>	<u>39,880</u>	<u>132.3%</u>
Total Revenues	11,890,646	7,950,476	8,025,476	75,000	0.9%

Note: 2020 revenue budget subject to change





## 3. Operating Budget - Expenses

				Budget 2020	0 vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
Expenses	\$	\$	\$	\$	%
SALARIES and BENEFITS	5,559,521	6,228,609	6,284,644	56,035	0.9%
MATERIALS and SUPPLIES					
Printing, office and administrative supplies	62,912	71,000	71,000	0	0.0%
PURCHASED SERVICES					
Support services charge from City	2,742,954	2,861,716	3,008,361	146,645	5.1%
Credit card processing fees	52,284	57,840	57,840	0	0.0%
Staff training	19,822	32,000	32,000	0	0.0%
Building inspector phones	11,115	30,550	30,550	0	0.0%
Membership fees	20,012	22,000	22,000	0	0.0%
Other purchased services	<u>19,506</u>	<u>28,490</u>	<u>28,490</u>	<u>0</u>	0.0%
Total Expenses	8,488,126	9,332,205	9,534,885	202,680	2.2%





### 3. Reserve Fund

- The Building Code Act and Ontario Building Code provide for the establishment of a reserve fund
- Reserve fund can only be used to:
  - Fund departmental costs in cases of revenue shortfalls
    - Corporate target: maintain 1.5X or 18mos operating expenses
  - Fund special projects related to the enforcement of the Building Code
    - Zoning By-law Consolidation project
    - Development Services ePlan project
- Reserve balance end of 2018 \$12.94M (Actual)
  - Target: 1.5X \$8.44M [2018 operating budget] = \$12.7M





## 4. Responsibilities





#### **Plan Review**

- Review permit plans for compliance with the Ontario Building Code & standards
- Review permit plans & planning applications for compliance with zoning by-laws

#### **Exceptional Services by Exceptional People**

- Modernize permit application & review through process change & use of technology
  - Full implementation of ePlan in 2018 81% of all applications in 2019 via ePlan
  - Reductions in median processing times
- Leveraging AMANDA to schedule and track plan review processes & approvals, collect data and archive documents
  - Median processing times for determinations meeting provincial standards





#### Plan Review cont'd

#### **Stewardship of Money & Resources**

Sustain and secure revenue/cost balance to maintain stable funding of operations through periods of variable development volumes

- Annual review of fees and average fee increases of 5% per year
  - 10 year annual revenues averaging \$8.8M/yr [2018 \$11.94M]
- Leveraging technology to verify/archive building data & calculate permit fees
- ePlan benefits
  - Reduced printing & storage costs
  - Smaller work stations & consolidation of floor space freeing up >70m<sup>2</sup>
- Development data verified to support calculation and collection of development charges by Finance;
- Zoning Preliminary Review [ZPR] New services generating over \$35K in fees





#### **Administrative Services**

Applications Administrators [4] and Customer Service Representatives [2] led by a Supervisor of Permit Administration:

#### **Exceptional Services by Exceptional People**

- ePlan Pre-application review improving quality & completeness to 70% [2018]
- Ensure all fees and development charges owing are paid prior to permit issuance
- Conditional Permits agreement preparation & administration
  - facilitates early construction starts prior to internal/external approvals
  - 2500 construction days on average saved per year
  - Revenue generated \$108K in conditional permit fees
- Customer calls/mth [2019]:
  - 880 Counter/Zoning and 315 Inspections





### **Administrative Services [cont'd]**

Preparation of monthly dashboard reports – permit activity & performance metrics

		To End	of To End of				Ac	tual	Year End				1			
		July 20	19 July 2018		2018		2017	2	2016	20:	15 2	014	l .			
sidential	Departmen	tal Performance														
ustriai /		or the state of th	To End of	To E	nd of				Actual Ye	ar E	nd			- (2)		
scellanec			July 2019	July :	2018	2018	8 20	17	201	6	2015		2014			
	Customer Serv	Financial Performance														
Reside	Median Proces	Building Standards														
				1	To End of		To End of					Act	ual Year End			
					July 2019		July 2018		2018		2017		2016		2015	2014
		Revenue														
ıstrial/C	% Permit Appli	Residential		\$	768,434	\$	4,651,041	\$	7,962,062	\$	5,082,838	\$	6,527,415	\$	3,462,925	\$ 4,436,1
	% Production I	Industrial / Commercial / Instit	utional	\$	1,608,494	\$	2,561,508	\$	3,074,017	\$	1,632,871	\$	2,081,815	\$	1,971,488	\$ 2,204,6
		8.85111		\$	300,357	\$	528,170	\$	707,963	\$	700,353	\$	541,283	\$	610,502	\$ 503,6
	determined wi	iviiscellaneous					200,000		234,950	ċ	95,800	\$	68,200	¢	35,200	\$ 21,7
ed Pern		Admin Fees collected on Buildi	ng Violations	\$	57,550	\$	200,800	\$	234,330	7				7		
ed Pern idential	determined wi Online Service	The state of the s	ng Violations	\$	57,550 40,271			100	76,006	i de		\$	65,235	190	55,897	
ed Pern	Online Service	Admin Fees collected on Buildi	ng Violations	0.50	7/	\$	127	\$	20	\$	- 62	\$		\$	15	\$ 81,5 41,6





### 4b. Inspections

### **Building Inspections**

Inspect construction for compliance with the Building Code & permit documents

#### Safe & Sustainable Community

- Inspection of buildings
  - Total inspections conducted within 48hr notice >35,000
  - Occupancy Permits issued 740 [end of July 2019] 1332 [2018]
  - Dormant permits closed over 300/year

### **Stewardship of Money & Resources**

 Leveraging technology [AMANDA] to provide monthly occupancy data and support Finance in Supplementary Assessment & Multi-Year Growth Projections for the earliest generation of tax revenue





### 4b. Inspections

### **Special Investigations**

- Inspection staff dedicated to respond to citizen complaints
- Investigate unsafe and illegal construction activities

#### Safe & Sustainable Community

- Responding to over 700 complaints annually on average
- Average 27 Unsafe Notices annually to remedy unsafe building conditions
  - Structurally unsafe 14 [2018]

#### **Stewardship of Money & Resources**

- Administrative fees to recover costs of investigating illegal construction activities
  - Orders \$127K [2018]
  - Stop Work Orders \$142K [2018]





### 5. Summary

### 2018

- Revenues higher than forecast / Expenses lower than forecast
- Construction value higher than anticipated
- Contributed to reserves
- Efficiencies and control on expenditures through repurposing of staff positions
  - Supervisor of Plans Review & Process Administrator ePlan

#### 2019

- Revenues trending lower than forecast
- Construction value lower than anticipated
- Year end draw on reserves; higher than anticipated
- Estimated year end reserve balance: \$10.48M





### Summary

#### 2020

- Revenues anticipated to stabilize to near 2019 levels
- Construction value likely to exceed 2019 levels
- Improve forecasting models
- Year end draw on reserves anticipated
  - Preliminary year end balance: \$9M
- Migration to AMANDA 7 [2020] improved efficiencies





## 6. 2020 Capital Budget Requests

## No 2020 capital budget requests





# Information Technology Services

2020 Budget

Nasir Kenea, Chief Information Officer





## Agenda

- 1. Department Introduction
- 2. Organizational Chart
- 3. Operating Budget
- 4. Responsibilities
- 5. Summary
- 6. 2020 Capital Budget Requests





## 1. Department Introduction

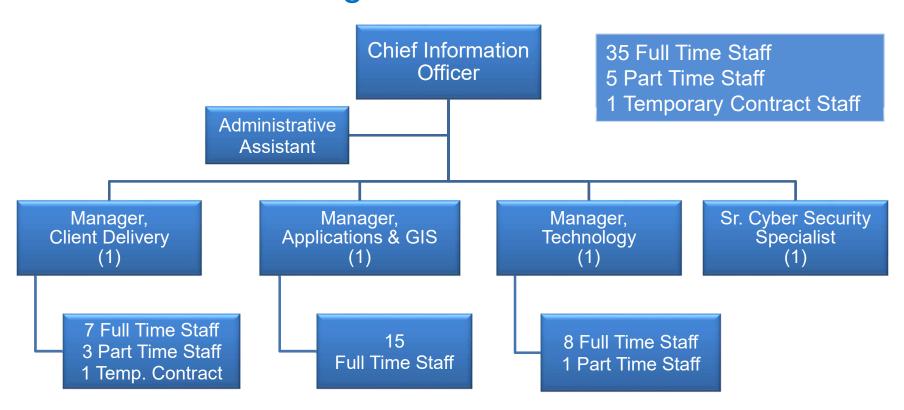
The Information Technology Services Department is structured into three divisions:

- 1. Applications and GIS (Geographic Information Systems)
- 2. Client Delivery
- 3. Technology





### 2. Organizational Chart







			Preliminary	Budget 2020 Increase/	vs. 2019	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change	
	\$	\$	\$	\$	%	
Revenues	0	0	0	0	0.0%	
Expenses	7,333,266	7,813,543	<u>8,184,695</u>	371,152	4.8%	
Net Expenditures/(Revenues)	7,333,266	7,813,543	8,184,695	371,152	4.8%	





				Budget 202	0 vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
<u>Expenses</u>	\$	\$	\$	\$	%
SALARIES & BENEFITS	4,401,433	4,757,941	4,920,177	162,236	3.4%
MATERIALS & SUPPLIES					
Office and administrative supplies	18,365	23,744	22,045	(1,699)	-7.2%
PURCHASED SERVICES					
Software service agreement, support and subscriptions	2,244,992	2,234,884	2,486,978	252,094	11.3%
Communication Infrastructure	582,744	558,927	578,414	19,487	3.5%
- Data charges, services lines, move and changes, long distance					
Computer hardware maintenance	445,350	510,181	517,506	7,325	1.4%
IT systems consulting	54,422	110,739	110,739	0	0.0%
Peripherals	89,857	105,000	105,000	0	0.0%
- adaptors, monitors, AV equipment, mounts					
Other purchased services	69,596	113,088	93,300	(19,788)	-17.5%
Water support services recovery	(573,493)	(600,961)	<u>(649,464)</u>	<u>(48,503)</u>	8.1%
Total Expenses	7,333,266	7,813,543	8,184,695	371,152	4.8%





## 4. Responsibilities





### 4. Responsibilities: Applications and GIS

#### **Business Applications:**

Evaluates, acquires, implements, maintains, and supports enterprise-wide software solutions and services, including the City's website. Develops and maintains the technical aspects of software solutions.

- Supports:
- > 96 Markham-hosted enterprise applications
- > 27 cloud-based applications
- > 119 desktop applications

#### **Data Management:**

Manages and administers data/databases and sets data management standards. Works closely with other staff for implementation of projects and ongoing support

- Administers:
- 226 databases
- > 5.2TB of data

#### **GIS (Geographic Information Systems):**

Sets GIS standards and creates and maintains corporate spatial datasets and products. Manages, integrates, administers and supports GIS related business systems and provides GIS services and analysis

- Creates/manages: > 40 corporate spatial datasets
- Manage: > 300 spatial datasets across the corporation





### 4. Responsibilities: Client Delivery

#### **Service Desk:**

Primary point of contact for ITS, resolves incidents, tracks and executes service requests and provides system administration at first level or assigns to other ITS teams for resolution. Monitors ITS process effectiveness and service quality

- Average monthly volumes:
  - > 820 phone calls
  - > 1,000 email requests
  - > 300 service assignments resolved

#### **Client Advisors:**

Manages IT projects, solutions and service delivery. Work with Clients to identify and evaluate business requirements for appropriate IT solutions and assists with the annual BUP process. Work with other ITS teams to research, evaluate and recommend appropriate technology solutions

- Currently managing 46 approved/active projects
- Evaluating 26 additional requested projects





## 4. Responsibilities: Technology

#### **Network Infrastructure:**

Designs and administers local and wide area networks, including information security, server infrastructure, data backup and restoration, remote access, corporate data centre software and hardware

- Manages:
- > 1 Primary Data Centre (and 1 Secondary), 33 locations with broadband network
- ➤ 250 virtual and physical servers; 270 network devices
- > 200 TB storage
- > 75 infrastructure software applications

#### **Telephony:**

Manages optimum operation, administration and support of phone and voicemail systems, including capacity planning, call centre systems, cellular and smart phones. Analyzes usage reports, including long distance, cellular plans and billing

- Administers: ➤ 1150 desktop phones
  - > 570 cellular/smart phones

#### **Desktop:**

Distributes and supports computer technologies (desktops/laptops/tablets), monitors, printers, scanners and audio visual. Manages virus protection, operating systems, print queues, remote software installations, mobile device encryption

- Supports:
- ➤ 1400 computers
- > 125 AV devices
- > 260 printers
- ➤ 35 City sites









## **Key Performance Indicators:**

Departmental Performance Measures in support of Goal	2018 Result	Target
Overall customer satisfaction (satisfied and above) for formal survey(s) completed (%)	91%	<u>&gt;</u> 80%
Call abandonment at Service Desk	13%	<u>&lt;</u> 10%
Average number of answered calls by Service Desk/month	820	n/a
Calls resolved on first contact at Service Desk	40%	<u>&gt;</u> 50%
Incidents resolved within severity-based set targets	94%	<u>&gt;</u> 85%
Administrative requests resolved within severity-based set targets	96%	<u>&gt;</u> 85%
Business continuity service achievement (%)	99.99%	>99.95%
Technology Changes implemented successfully (%)	99%	<u>&gt;</u> 90%





#### **Key Corporate Initiatives and Outcomes:**

- Digital Markham Strategy Advance "frictionless city" vision through Digital Strategy technology roadmap (3-5 years) with four goals: enhance digital services/engagement, digital as a differentiator for business, digital workplace and Markham as a platform for innovation
- Smart Cities Challenge submission focused on addressing social isolation and wellbeing of seniors using technology
- Leading a number of major Transformational technology implementation projects
- Smart sensors pilot project (6 months) for water and flood monitoring, asset & energy management
- Cyber Security Continue to enhance the Cyber Security posture of our IT infrastructure
- Municipal Election Technology support for online voting, voting information website
- \$251K savings in E3 since 2009, infrastructure optimization for cost avoidance
- Over 60% of City employees mobile technology-enabled
- Partnerships: York Region broadband, GIS, City's Portal platform, Disaster Recovery site

#### **Challenges:**

- Keeping pace with technology change, change management
- Resourcing and capacity to sustain services





## 6. 2020 Capital Budget Requests

# See capital budget request forms (e-file)





# **Financial Services**

2020 Budget

Joel Lustig, Treasurer





# Agenda

- 1. Department Introduction
- 2. Organizational Chart
- 3. Operating Budget
- 4. Responsibilities
- 5. Summary
- 6. 2020 Capital Budget Requests





## 1. Department Introduction

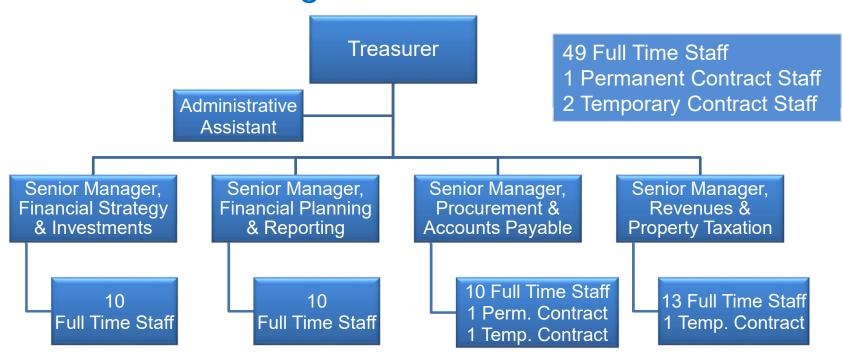
The Financial Services Department is comprised of four divisions:

- Financial Strategy & Investments (Investments, Insurance, Development Finance & Payroll)
- Financial Planning, Financial Reporting & Accounts Receivable
- Procurement & Accounts Payable
- Revenues & Property Taxation (Property Assessment Services and Cash Management)





## 2. Organizational Chart







				Budget 2020	vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
_	\$	\$	\$	\$	%
Revenues	1,024,121	1,338,384	1,276,310	(62,074)	-4.6%
Expenses	<u>5,372,919</u>	<u>5,725,211</u>	<u>5,690,621</u>	<u>(34,590)</u>	<u>-0.6%</u>
Net Expenditures/(Revenues)	4,348,798	4,386,827	4,414,311	27,484	0.6%

Budget excludes corporate items (eg. Property taxes, penalty & interest, investment income, insurance)





			Preliminary	Budget 2020 Increase/	0 vs. 2019
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
Revenues	\$	\$	\$	\$	%
USER FEES & CHARGES					
- Tax certificates					
- Mortgage administration fees					
- Ownership changes administration fees 🟱	<del></del> 854,719	1,155,638	1,064,134	(91,504)	-7.9%
- Property tax overdue notice fees					
- New tax account setup fees					
Other user fees and charges	<u>169,402</u>	<u>182,746</u>	<u>212,176</u>	<u>29,430</u>	<u>16.1%</u>
Total Revenues	1,024,121	1,338,384	1,276,310	(62,074)	-4.6%





				Budget 2020	vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
<u>Expenses</u>	\$	\$	\$	\$	%
SALARIES & BENEFITS	4,940,802	5,269,312	5,252,635	(16,677)	-0.3%
MATERIALS & SUPPLIES					
Early payment discounts	(98,007)	(120,822)	(120,822)	0	0.0%
Tax bill printing and other supplies	65,993	67,963	67,963	0	0.0%
PURCHASED SERVICES					
Outsourced payroll system provider	459,060	473,157	482,620	9,463	2.0%
Bank services and armoured car service	81,525	93,578	93,578	0	0.0%
External audit fees	63,959	70,690	70,690	0	0.0%
Corporate professional services and	49,923	67,338	67,338	0	0.0%
professional membership fees					
Other purchased services	42,199	62,097	62,097	0	0.0%
Water support services recovery	<u>(232,535)</u>	(258,102)	<u>(285,478)</u>	<u>(27,376)</u>	<u>10.6%</u>
Total Expenses	5,372,919	5,725,211	5,690,621	(34,590)	-0.6%





# 4. Responsibilities





# 4. Financial Strategy & Investments

#### **Investments**

#### **Stewardship of Money and Resources**

- Maximize the rate of return on investments while ensuring compliance with the City's investment policy and the Municipal Act
  - Average investment portfolio \$430M Investment Income budget \$11M
  - 3.12% return on investments (2018 internal benchmark 2.00%,

2018 AMO One Fund – Corporate Bond avg. 1.59%)

#### Insurance

#### **Stewardship of Money and Resources**

- Manages the City's insurance program and provides insurance and risk management advice
  - Insured assets \$675M
  - 2019 insurance premium is less than 2014, excluding asset growth and additional coverages





## 4. Financial Strategy & Investments

### **Development Finance**

### **Stewardship of Money and Resources**

- Develops strategies to ensure that developers pay for growth related infrastructure, while being compliant with the Development Charges Act and Planning Act
  - \$1.3B of new assets included in the current DC background study

#### **Validation of Controls**

- Auditor General (AG) areas of strength:
  - well documented and defined processes
  - multiple levels of documentation review
  - reconciliation of development charge collection and remittance

#### **Continuous Improvement Projects**

- Working to implement the Bill 108 Community Benefit Charge
- Developing a consolidated Financial Strategy to define the City's financial vision





# 4. Financial Strategy & Investments

### **Payroll**

#### **Stewardship of Money and Resources**

- Responsible for the timely and accurate processing of the City's payroll obligations
  - Manages a \$128M payroll
  - 45% increase in paid employees since 2010 (2,851 to 4,123)
  - EPIC implementation reduced overtime in payroll by 1,820 hours per year

#### **Validation of Controls**

- AG audit areas of strength:
  - documented and defined processes
     segregated roles and responsibilities
  - multiple levels of review and approval reconciliation of payroll entries and automated calculations
- The audit did not identify any opportunities to significantly improve the existing internal controls





## 4. Financial Planning & Reporting

### **Financial Planning**

#### **Stewardship of Money and Resources**

- Prepares annual budgets, manages E3 process, maintains corporate life cycle database and provides assistance to all departments on financial matters
  - 2019 approved budget \$519.8M
     E3 Savings \$29.0M since 2009 (Exp.: \$18.0M, Rev.:\$11.0M)
  - Life Cycle \$8.1B of assets
     Lowest tax rate
    - Lowest tax rate increase for more than a decade

#### **Validation of Controls**

 Since 2013, the City had zero management points, and no corrected or uncorrected differences as identified by the external auditor

#### **Continuous Improvement Projects**

New capital budget database





## 4. Financial Planning & Reporting

### **Financial Reporting**

#### **Stewardship of Money and Resources**

- Provides accounting services for the City, 8 associated entities, 2 foundations, prepare annual financial statements and coordinates the annual external audit
  - 43% increase in financial transactions since 2010 (168,950 to 242,016)

#### **Validation of Controls**

- Since 2013, the City has had zero management points and no corrected or uncorrected differences identified by the external auditor
- Ministry of Municipal Affairs and Housing Financial Indicator Review no concerns identified

#### **Continuous Improvement Projects**

- Complete the corporate financial system upgrade to enhance analysis and reporting capabilities
- Awarded the Distinguished Budget Presentation and Financial Reporting awards from the Government Finance Officers Association (GFOA) consecutively since 2001





## 4. Procurement & Accounts Payable

#### **Procurement**

### **Stewardship of Money and Resources**

- Fair and transparent procurement of goods and service by ensuring compliance with the Council approved Procurement Bylaw and Expenditure Control policy
  - 38% increase in contract awards since 2010 (190 to 262)
  - 100% of bids issued and received electronically
     Standardized terms and conditions
  - Electronic award approval (Sharepoint/eScribe)
     Bylaw has increased staff award authority
- Ensuring value for money achieved by targeting a minimum of 3 bid responses and negotiating contract reductions (when applicable)
  - Average of 5 bid responses per tender/RFP
  - Spend analysis has yielded savings by grouping multiple like purchases into one buy
  - Negotiated approximately \$0.75M in contract savings





## 4. Procurement & Accounts Payable

#### **Procurement**

#### **Validation of Controls**

- AG audit areas of strength:
  - budget controls and account set-up approval process
  - purchase order and vendor award
  - escalation of vendor issues and contract termination procedures

#### **Continuous Improvement Projects**

- Eliminated paper files within Procurement, elimination of paper files in Financial Services by 2022
- Expanded the eProcurement process to include the issuance of electronic Purchase Orders to vendors
- Implementing an electronic online scoring system for Request For Proposals





## 4. Procurement & Accounts Payable

### **Accounts Payable**

### **Stewardship of Money and Resources**

- Responsible for the accurate and timely payment of all invoices while ensuring compliance with City policies and procedures
  - All payments are reviewed and approved for compliance with City policies
  - 11% increase in invoices processed since 2010 (36,370 to 40,551)
  - Invoice consolidation and switching to VISA has decreased cheques by 12% since 2010

#### **Validation of Controls**

 External auditor annually reviews payment transactions to ensure compliance with City policies and validates that appropriate controls are in place

#### **Continuous Improvement Projects**

 In partnership with ITS, procure an A/P automation solution which includes invoice management and electronic Staff and Council expense reimbursement by Q2 2021





### **Property Tax Assessment Services**

#### **Stewardship of Money and Resources**

- Administers the property tax billing and collection process on behalf of the City, Region, and Province (Education) in compliance with the *Municipal Act* and the *Assessment Act*
  - 29% increase in property tax accounts since 2010 (88,793 to 114,238)
  - Implemented online and automated property tax forms reducing staff time
  - 14% of all properties receive their tax bill electronically through ePropertyTax (self-service), less processing time
  - 19% of property owners manage their property tax account (self-service), reducing staff administration time





### **Property Tax Assessment Services**

#### **Validation of Controls**

- AG audit areas of strength:
  - internal controls with respect to tax base changes
  - arrears management and segregation of duties
  - use of automation, and accessibility to information and transparency

### **Continuous Improvement Projects**

 Continue to promote ePropertyTax as the preferred method of Property Tax bill delivery, with the goal to increase enrollment from 14% to 20% by 2022





### **Cash Management**

#### **Stewardship of Money and Resources**

- Administers the centralized corporate cashiering activities in compliance with Canadian Payment Association rules and City policies
  - Migration from in person to online payments
  - Implementation of ePropertyTax and promotion of digital payment options payments have resulted in an increase in transactions completed online
  - Property tax installments from 6 to 4 has reduced payment transactions by 29%

#### **Validation of Controls**

- AG audit areas of strength:
  - segregation of duties relating to recording of cash transactions and preparation of deposits
  - use of safes to keep cash secure, effective monitoring and performing routine surprise audits
  - oversight over the issuance of refunds





### **Cash Management**

#### **Continuous Improvement Projects**

- Commencing the replacement of the Point of Sale (POS) cashiering system
- Council approved discontinuing the acceptance of cash as a form of payment for property taxes effective January 1, 2020
- Report back to Council on possible future payment modification opportunities





## **Stewardship of Money and Resources**

### **Since 2010**

- No new staff added
- Significant increase in volume due to City growth
- Numerous efficiencies implemented
- Eliminated paper files in Procurement, eliminating paper files in Financial Services by 2022
- Controls maintained and in a lot of cases enhanced
- Controls validated by external auditor, Auditor General, and the Province





# 6. 2020 Capital Budget Requests

# See capital budget request forms (e-file)





# **Sustainability & Asset Management**

2020 Budget

**Graham Seaman, Director** 





# Agenda

- 1. Department Introduction
- 2. Organizational Chart
- 3. Operating Budget
- 4. Responsibilities
- 5. Summary
- 6. 2020 Capital Budget Requests





## 1. Department Introduction

SAM is currently comprised of three divisions:

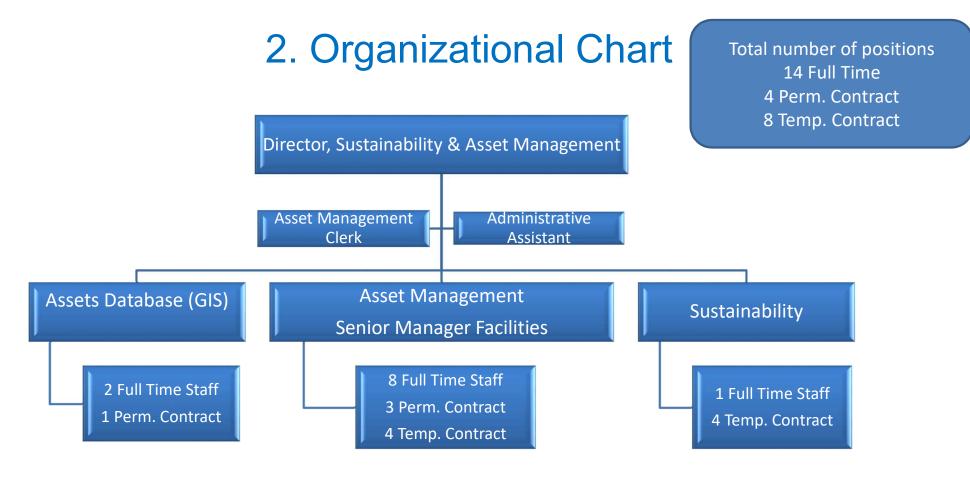
- Sustainability
- Asset Management
- Assets Database (GIS)

## That deliver the following functions:

- Corporate and Community Sustainability
- Facility Operations and Maintenance Support
- Major Facility Capital Projects
- Corporate Security
- Asset Database Management
- Corporate Asset Management











				Budget 2020	0 vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
	\$	\$	\$	\$	%
Revenues	515,878	475,033	513,416	38,383	8.1%
Expenses	<u>3,847,156</u>	4,259,726	<u>4,580,630</u>	<u>320,904</u>	<u>7.5%</u>
Net Expenditures/(Revenues)	3,331,278	3,784,693	4,067,214	282,521	7.5%





				Budget 2020 vs. 2019	
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
Revenues	\$	\$	\$	\$	%
USER FEES & CHARGES					
Properties rentals	141,730	140,757	140,757	0	0.0%
GIS engineering drawings	40,185	20,000	25,000	5,000	25.0%
OTHER INCOME					
Solar revenue	308,643	275,250	280,750	5,500	2.0%
Contribution (to)/from energy project funds (MECO*)	(52,599)	0	37,983	37,983	0.0%
Others					
- Mainly utility incentives, demand responses and FIT					
support	<u>77,919</u>	<u>39,026</u>	<u>28,926</u>	(10,100)	<u>-25.9%</u>
Total Revenues	515,878	475,033	513,416	38,383	8.1%

<sup>\*</sup> MECO - Markham Energy Conservation Office





				<b>Budget 2020 vs. 2019</b>		
			Preliminary	Increase/		
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change	
<u>Expenses</u>	\$	\$	\$	\$	%	
SALARIES & BENEFITS	1,555,385	1,926,395	2,198,807	272,412	14.1%	
MATERIALS & SUPPLIES						
Building, lighting and reflective pool supplies	58,419	92,331	74,331	(18,000)	-19.5%	
Solar panels maintenance	14,097	10,000	10,000	0	0.0%	
Community program and special events	21,470	8,000	12,000	4,000	50.0%	
Department and administrative	4,227	5,896	5,896	0	0.0%	
PURCHASED SERVICES						
Building repairs and maintenance	1,092,212	1,089,219	1,108,813	19,594	1.8%	
Utilities	654,170	651,266	651,266	0	0.0%	
Security guards services	328,802	339,406	377,031	37,625	11.1%	
Other purchased services	32,379	55,644	56,463	819	1.5%	
Water support services recovery	(130,567)	(104,531)	(106,977)	(2,446)	2.3%	
TRANSFER TO OWN FUNDS						
Contribution to energy project funds (MECO*)	216,562	<u>186,100</u>	<u>193,000</u>	<u>6,900</u>	3.7%	
Total Expenses	3,847,156	4,259,726	4,580,630	320,904	7.5%	

<sup>\*</sup> MECO - Markham Energy Conservation Office





# 4. Responsibilities





# 4. Corporate and Community Sustainability

- Corporate Sustainability focuses on reducing the City's emissions, utility and fuel costs:
  - Integrated reporting in the Annual Report
  - Guided by Markham's Corporate Energy Management Plan, a five year plan that meets O.Reg. 507/18
  - Achievements since 2012 include:
    - \$2M/yr in cumulative utility savings, \$1.2M in incentives and \$1.6M in solar revenue
    - 14% greenhouse gas emission reduction per resident per year (corporate)
  - Recent Awards:
    - 2018 Energy Manager of the Year, Most Innovative Project
    - Two Energy Star Certified buildings (2018)
    - Gold and Silver awards from the Mayor's Megawatt Challenge (2018)
    - Canada's Greenest Employer (2018)





# 4. Corporate and Community Sustainability

- Community sustainability focuses implementing the Municipal Energy Plan (net zero emissions 2050)
   via partnerships, community education, engagement and empowerment
  - Guided by the Greenprint, Markham's Community Sustainability Plan, Council endorsed in 2011
  - Achievements since 2011 include:
    - \$2M in external funding sources to support community sustainability and energy projects
    - 3,000,000 milk bags diverted from landfill through Milk Bag Program
    - 120 gardeners and 1,800 lbs of local food produced from supported gardens annually
    - 25,000 residents engaged since 2012 including Earth Day
  - Recent Awards:
    - ClimateWise York Region Environmental Leadership (2019)
    - Recycling Council of Ontario Platinum Award for Special Municipal Program Milk Bag Program (2015)





# 4. Facility Operations and Maintenance Support

- Continuously improve operation and maintenance of Civic Centre, 8100 Warden and 555
   Miller
- City wide contract management and operations support for a total of 200 buildings: community centres, libraries, cultural facilities, satellite community centres and parks facilities





# 4. Corporate Security

- Support and enhance the security of all staff, residents, visitors, and assets to help ensure delivery of City services.
- Build a culture of security through training, education, technology and high quality security services
- Mitigate threats and risks that can cause loss and harm to our staff, residents, reputation, financial stability, and assets.
- Recent accomplishments include:
  - New security guard provider,
  - Updated security systems (card access & cameras),
  - Civic Centre Security Control Centre
  - Security risk management and mitigation for public events (YRP, security services, emergency management partnerships)





# 4. Major Facility Capital Projects

- Project Managers responsible for major facility construction projects including; new buildings, retrofits, life cycle projects and demolition
- Current projects include
  - Milliken Mills Change Room
  - Morgan Pool Revitalization
  - Fire Station Electronic Signs
  - East Works Yard
  - Angus Glen CHP
  - Building Automation System standardization
  - Theater Security System replacement
- Recent accomplishments include
  - Substantial completion of Aaniin CC+L and completion of the Pan Am Centre
  - LEED certification of Pan Am Centre (Gold) and Cornell CC (Silver), Aaniin is pending





# 4. Asset Database Management

- Creation, updating and maintenance of Geographic Information System (GIS) databases for the Sanitary, Storm, Streetlight and Water Assets of the City
- Stakeholders include City departments, external entities (York, MTO, TRCA, City of Toronto)
- Support Contact Centre and Operations to manage streetlight outages
- Provide engineering drawings for a fee to residents, utilities and others
- Recent accomplishments include:
  - Conversion of manual and paper based engineering request process to on-line and electronic





# 4. Corporate Asset Management

- Enterprise leadership to meet Ontario Regulation 588/17 Asset Management Planning for Municipal Infrastructure
  - Collaborated with Environmental Services to develop Asset Management Policy (Council endorsed May, 2019)
  - 2016 Asset Management Plan implementation to maintain a state of good repair for City assets
  - Next stages to continue 588/17 compliance include service level documentation, asset management plan for core assets in 2021 and asset management plan for all other assets in 2023
- Annual Facility Asset Life Cycle Database update,
- MNP Auditor General Audit of Asset Management
- Support implementation of the Enterprise Asset Management System





# 5. Summary

- Sustainability & Asset Management (SAM) is a team of 26 staff that provides the following:
  - Corporate and Community Sustainability
  - Facility Operations and Maintenance Support
  - Major Facility Capital Projects
  - Corporate Security
  - Asset Database Management
  - Corporate Asset Management
- External recognition includes seven awards in 2018/19 collected on behalf of the City
- \$2M/yr in cumulative utility savings since 2012
- Continued compliance to all relevant Federal and Provincial laws
- Maintain a state of good repair on our assets while achieving lowest total cost of ownership





# 6. 2020 Capital Budget Requests

See capital budget request forms (e-file)





# Legislative Services & Corporate Communications & Community Engagement Department

2020 Budget

Kimberley Kitteringham, City Clerk & Director





# Agenda

- 1. Department Introduction
- 2. Organizational Chart
- 3. Operating Budget
- 4. Responsibilities
- 5. Summary
- 6. 2020 Capital Budget Requests





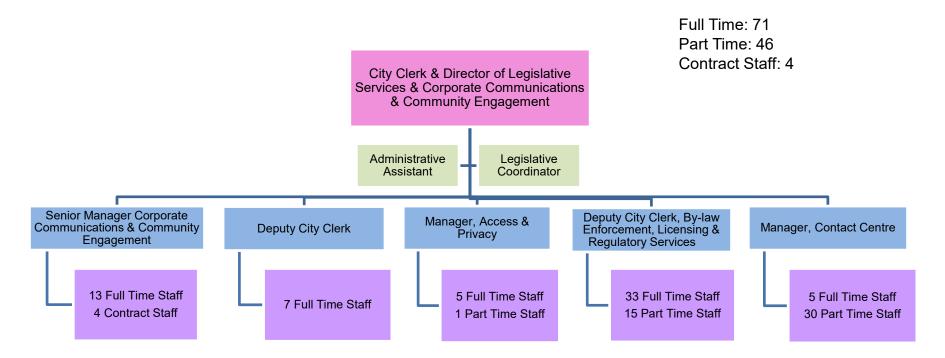
### 1. Department Introduction

- Legislative Services & Corporate Communications & Community Engagement is comprised of a team of professionals that facilitate accountability, integrity & innovation in governance & deliver a variety of legislative, corporate & public services.
- The Department is comprised of 5 Divisions:
  - 1. By-law & Regulatory Services
  - 2. Contact Centre
  - 3. Corporate Communications & Community Engagement
  - 4. Public Services
  - 5. Secretariat Services





### 2. Organizational Chart







# 3. Operating Budget

				Budget 2020 vs. 2019		
			Preliminary	Increase/		
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change	
	\$	\$	\$	\$	%	
Revenues	5,842,706	6,569,031	6,754,246	185,215	2.8%	
Expenses	<u>10,715,075</u>	<u>11,120,900</u>	<u>11,407,318</u>	<u>286,418</u>	<u>2.6%</u>	
Net Expenditures/(Revenues)	4,872,369	4,551,869	4,653,072	101,203	2.2%	





# 3. Operating Budget

				Preliminary	Budget 2020 Increase/	vs. 2019
		2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
Revenues		\$	\$	\$	\$	%
PARKING FINES		3,055,701	3,248,174	3,346,174	98,000	3.0%
LICENCES & PERMITS						
- Business Licenses						
- Vehicle Licenses	_	1,833,187	1,974,101	2,043,097	68,996	3.5%
- Marriage Licenses						
- Overnight Parking Permit						
USER FEES & CHARGES						
<ul> <li>Rentals (Wedding Room, Chapel)</li> </ul>						
- Vital Statistics						
- Compliance Letters	<b>-</b>	726,141	744,156	757,375	13,219	1.8%
<ul> <li>Promotion/Advertising</li> </ul>						
<ul> <li>Advertising Revenue (Markham Life)</li> </ul>						
OTHER REVENUE						
- Enforcement Recoveries (Property Service Fees)						
- General Sponsorships (Rink Boards, Backlits)		<u>227,677</u>	<u>602,600</u>	<u>607,600</u>	<u>5,000</u>	0.8%
Total Revenues		5,842,706	6,569,031	6,754,246	185,215	2.8%





# 3. Operating Budget

				Budget 2020	vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
<u>Expenses</u>	\$	\$	\$	\$	%
SALARIES & BENEFITS	8,308,743	8,613,178	8,901,146	287,968	3.3%
MATERIALS & SUPPLIES					
Printing and Communications (Postage)	438,253	417,023	418,484	1,461	0.4%
Programs (Markham Magazine)	379,637	428,875	428,875	0	0.0%
Promotion and Advertising	217,445	206,800	206,800	0	0.0%
Other Operating (Uniforms, Training, Recoverable Enforcement Costs)	194,845	322,740	333,040	10,300	3.2%
PURCHASED SERVICES					
Contracted Services (OSPCA & Shades of Hope)	842,317	782,401	777,743	(4,658)	-0.6%
Professional Services	<u>333,835</u>	<u>349,883</u>	<u>341,230</u>	(8,653)	<u>-2.5%</u>
Total Expenses	10,715,075	11,120,900	11,407,318	286,418	2.6%















By-law & Regulatory Services

**Contact Centre** 

Corporate
Communications
& Community
Engagement

**Public Services** 

Secretariat Services





### By-law & Regulatory Services Division

- Investigation & enforcement of City by-laws & regulations to achieve resolution through voluntary compliance or prosecution.
- **Innovation:** Mobile workforce patrol vehicles equipped with mobile workstations & printers to maximize operational efficiency in the field (Digital Strategy).
- Innovation: 4 new plug-in hybrid vehicles added to the enforcement fleet in 2018 (Green Fleet Strategy).
- Review of Division's resource deployment model in progress to explore opportunities for improved service delivery & better case load management for Officers.









### By-law & Regulatory Services Division

- Division comprised of 3 units:
  - 1. By-law & Property Standards Unit enforces regulations relating to residential, commercial, industrial & heritage properties (e.g. roofs, eaves). Process Improvement: Evening shift implemented in 2019 to expand service coverage (8:15 AM to 11:30 PM) Monday to Friday.
  - **2. Licensing & Animal Services Unit** enforces the City's stationary & mobile business licence requirements & protect Markham's domestic & wild animals. **Innovation:** Markham is the first municipality to open a municipally-owned & innovative Cat Adoption & Education Centre (CAEC).
  - **3. Parking Control Unit** enforces parking standards (e.g. fire routes, accessible parking) 24 hours per day, 7 days per week. **Business Transformation:** introduced Administrative Monetary Penalty System (AMPS) in 2015 for parking by-law violations to allow City to deal with parking matters in a fair, effective & efficient manner.







Services

Animal

2018 Stats

- •82 Dog Intakes
- •182 Cat Intakes
- 393 Wildlife Admitted
- •189 Wildlife Rehabbed
- •1,660 Animal Investigations
- 157 cats were adopted at the CAEC (total of 602 since opening)
- Cat Euthanasia Rate: 5%
- •10,000 visitors at the CAEC (Since opening)



Licensing

Business

2018 Stats

- •2,592 Stationary Licenses issued
- •1,963 Mobile Licenses issued
- •7,017 Inquiries at the counter



Parking

2018 Stats

- •50,976 Parking Penalty Notices
- •7,149 Screenings
- •226 Hearings
- •1,697 Monthly Parking Permits issued
- •44,016 Overnight Exemptions
- •1,414 Parking Folders (Complaints & inquiries)



2018 Stats

- •\$112,958 Service Fees
- •15,039 Field Inspections
- •6,656 Folders (Complaints & inquiries)
- **55%** of Folders closed within 20 Business Days
- 722 Orders issued

Property Standard

1





### **Contact Centre Division**

- Contact Centre is a multi-channel customer service hub that strives to provide exceptional service to Markham residents, visitors & City staff.
- Centre services include:
  - · Answering calls, emails & web chats
  - Processing requests for program registrations/cancellations/refunds
  - Monthly Ward ACR Summary reporting for Members of Council
  - Administering the City's Windrow Program
- Liaise with Information Markham & Volunteer Centre on customer service delivery.







### **Contact Centre Division**

- 14 languages spoken in Contact Centre access to over 175 languages available via Language Line.
- **Process Improvement:** in 2015 webchats introduced to general public through City website.
- **Innovation:** in 2017 enhanced staff work from home (or anywhere) capability for Centre staff.
- ACR system scheduled to be fully replaced September/October 2020.









Contact Centre

2018 Stats

•Calls: 204,071

•Web Chats: 13,791

•Emails: 48,000

•In Person: **62,000** 

•Voicemail/Sprout Social: 4,200

•Language Line: 183

• Customer Contact Points: 332,062



January to June 2019

•Calls: 718

•In Person Contacts: 6,300

Information Markham





### **Corporate Communications & Community Engagement Division**

- Division divided into 3 core teams:
- 1. Communications Team provides City Departments with strategic communications support. Innovation: In 2019, launched YourVoiceMarkham as well as other new tools to increase efficiencies for advertising asset tracking, project management, social media, media monitoring & reporting.
- 2. Events Team engages the community through Corporate events (e.g. Canada Day), City events (e.g. Mayor's Seniors' Hall of Fame Awards) & third party special events (e.g. Unionville Festival). Process Improvement: Team working to streamline event processes & create a Special Event Strategy.
- 3. Graphic Design Team provides graphic design support for all communications functions (e.g. Markham Life; Annual Report; City pages) as well as photography & video production services. Innovation: in 2019, the Team created a series of videos featuring Markham's historical cemeteries (narrated by Lorne Smith, City's official historian).





Communications

### 2018 Stats

- Online & broadcast media mentions: 1,435
- Social media mentions: 16,791
- · Advisories/Releases: 110
- Event Livestreams: 64
- YourVoiceMarkham: 8,800+ reached so far
- Facility advertising (gross):
- 2018: **\$160,000**
- 2019 to date: **\$71,000+** (on target)
- Markham Life advertising (gross):
- 2018: **\$279,000**
- 2019: to date \$205,000

### 4. Responsibilities



### 2018 Stats

- Corporate Videos: 126
- Video campaigns: 10
- EIB videos: 140
- Markham Life Issues: 4/yr
- · City Pages: 64
- Digital Markham Life views:
- •2018  **21,000+**
- •2019 (as of July) **34,000+** (**up 67%** in first 7 mos.)



#### 2018 Stats

- •City & Corporate Events: 125
- •3rd Party Events: 107
- •Sponsorships for 2019 Corp Events:
- •Canada Day \$76,000 (target \$60k)
- Markham-Milliken Children's Festival - \$45,000 (target \$37k)

# Design

# Special Events





### **Public Services Division**

- Division delivers services in 6 main areas:
- Access & Privacy process requests under the Municipal Freedom of Information & Protection of Privacy Act ("MFIPPA") Act. Process Improvement: In 2018, Team created online form for FOI applications & created process to post a summary of FOI Requests & City responses.
- 2. Cemetery Unit manage 5 active cemeteries & 18 historic, pioneer, & abandoned cemeteries. Improvement: in 2018, the signage at all cemeteries was replaced.
- 3. **Civil Weddings** City offers non-denominational ceremonies in Wedding Room or Wedding Chapel. **Improvement:** in 2019, updated the Wedding Room to enhance customer experience.









### **Public Services Division**

- **4. Municipal Elections** ensure the proper administrative & legislative conduct of municipal elections in Markham. **Innovation:** in 2018, successfully expanded online voting to Voting Day in alignment with Markham's Digital Strategy.
- 5. Corporate Records Management manage City records (paper & digital). Process Improvement: in 2018, launched Infolinx to replace City's physical record tracking system & launched pilot project for shared hierarchy transition with Markham Museum.
- 6. Insurance Claims process liability claims from the public (e.g. slip & falls on public property). Process Improvement: in 2019, staff created a direct email address for claims inquiries & deployed a fillable form on the website to allow claimants to complete submission online.











2018 Stats

•143 FOI requests

- 28 Requests for compliance of subdivision agreements
- •No FOI appeals

Access

•76 FOIs completed in 30 days or less



Cemetery

2018 Stats

Deaths Registered:

- •866 Inside Markham
- •**728** Outside Markham

Weddings Civil



2018 Stats

 Chapel Internal Officiant: 44

 Wedding Room: 230



2018 Election

• Eligible Voters: 202,594

Voter Turnout: 38.26%

Voted Online: 91.33%

Elections

Voted by Paper: 8.67%

Previous Voter Turnout

•2003: 26.71% •2006: 37.74%

•2010: 35.55%

•2014: 37.09%

2018 Stats

•226 (Onsite) Records/Box Retrievals

• 393 (Offsite) Records/Box ecords Retrievals

•2,353 boxes on site

•17,636 boxes off

•19,489 of records



Insurance

2018 Stats

 Number of Claims: 158





### **Secretariat Services Division**

- Secretariat Services oversees all aspects of:
- Council & Standing Committee Meeting Management including meeting & minute agenda production & distribution & meeting follow-up. Innovation: in 2019, launched eScribe.
- **2. Planning Notifications under the <u>Planning Act</u>** including preparation of all legislated documentation for statutory public meetings, LPAT appeals, complete planning applications, ZBAs & OPAs, etc.
- 3. Citizen Advisory Board Management including the recruitment & appointment process for all Boards & Advisory Committees adhering to the Board & Committee Appointment Policy. Process Improvement: in May 2019, completed review Markham's Advisory Boards & Committees.
- **4. Accountability & transparency** manage the <u>Council Code of Conduct</u> & Closed Meeting Investigation processes including the receipt of complaints & the corresponding reports from the Integrity Commissioner & Closed Meeting Investigator.







Committee

Citizen



Council Meeting Management

### **2018 Stats**

- Council Meetings: 16
- General Committee Meetings: 14
- Development Services Committee Meetings: 17
- Development Services Committee **Statutory Public** Meetings: 10



### **2018 Stats**

- Complete applications: 11,281
- Statutory Public Meeting: 14,582
- •Zoning By-laws: 178
- ·Hold Removal: 4
- Official Plan Amendments: 74
- Draft Plan of Subdivision: 66
- Heritage Designations: 2



### ABC's

### Jan - Jul 2019

- # of Meetings: 93
- Meetings attended by Secretariat staff: 29
- Advisory Com Management Meetings attended by external part time staff: 49
  - # of Agendas & minutes produced: 90



Accountability

Transparency

### **Investigations**

- Code of Conduct established in 2014 - 4 complaints to date (2 in 2015, 1 in 2016, & 1 in 2018).
- Closed Meeting - 3 complaints to date (2011, 2012 & 2013)

# Act Notifications Planning





### 5. Summary

### The Department has:

- Absorbed significant increase in volumes due to City growth & legislative change
- Furthered Markham's reputation as a digital leader (online voting & mobile workforce)
- Implemented an innovative Animal Services Strategy
- Maintained legislative compliance
- Implemented numerous business transformations & efficiencies

#### Awards:

- IABC/Toronto OVATION Award of Merit (2019) Elections
- IABC/Toronto OVATION Award of Excellence (2019) Elections
- IABC Heritage Region Silver Quill Award of Excellence (US 2019) Elections
- 2015 Teamwork Day: Markham Election Voter Outreach & Election Workers Training





# 6. 2020 Capital Budget Requests

# See capital budget request forms (e-file)





# **Human Resources**

2020 Budget

Claudia Storto, Director





# Agenda

- 1. Department Introduction
- 2. Organizational Chart
- 3. Operating Budget
- 4. Responsibilities
- 5. Summary
- 6. 2020 Capital Budget Requests





### 1. Department Introduction- Overview

Human Resources aligns human capital to the organization's business direction and strategy.



Human Resources supports the delivery of all City *Building Markham's Future Together* strategic goals, and in particular:

- Exceptional services by exceptional People
- Engaged, diverse and thriving city
- Stewardship of money and resources





# 1. Department Introduction - Complex Workforce

 The City's workforce is complex in nature with multiple distinct employee groupings characterized by distinct features and needs

City and Markham Public Library Employees (3093)				
Full Time (1030 / 33%)	Part Time (2063 / 67%)			
Non Union (671 / 65%) (359 / 35%)	Non Union (1866 / 90%)  Union (197 / 10%)			
Eligible to retire in 5 yrs (223 / 23%)				
Average age (46)	Average age (29)			





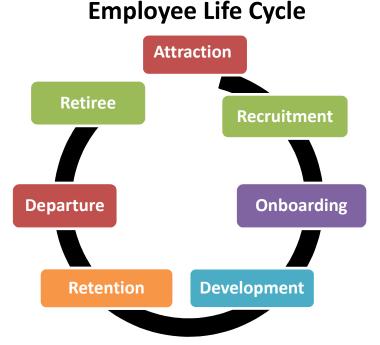
### 1. Department Introduction - Employee Life Cycle

Human Resources provides a range of core business services to employees and management to support the employee life cycle

### **Core Services**

- Recruitment
- Employee and labour relations
- Health, safety and wellness
- Diversity, inclusion, accessibility

- Learning and development
- Compensation, benefits, pension
- Workforce analytics and planning
- Policy Development







## 2. Organizational Chart







			Duoliminom	Budget 2020	vs. <b>201</b> 9
	2018 Actual	2019 Budget	Preliminary 2020 Budget	Increase/ (Decrease)	Change
	\$	\$	\$	\$	%
Revenues	2,885	2,000	2,000	0	0.0%
Expenses	<u>3,118,193</u>	3,239,184	3,203,640	(35,544)	<u>-1.1%</u>
Net Expenditures/(Revenues)	3,115,308	3,237,184	3,201,640	(35,544)	-1.1%





			Preliminary	Budget 202 Increase/	0 vs. 2019
	2018 Actual	2019 Budget	•	-	Change
Revenues	\$	\$	\$	\$	%
OTHER REVENUE					
- Fitness and yoga classes, photocopying	<u>2,885</u>	<u>2,000</u>	<u>2,000</u>	<u>0</u>	0.0%
Total Revenues	2,885	2,000	2,000	0	0.0%





				Budget 202	0 vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
Expenses	\$	\$	\$	\$	%
SALARIES & BENEFITS	2,265,441	2,446,505	2,420,601	(25,904)	-1.1%
MATERIALS & SUPPLIES					
Training and health & safety supplies	70,825	59,266	59,266	0	0.0%
Printing and office supplies	24,498	30,157	30,157	0	0.0%
PURCHASED SERVICES					
Professonal services	315,619	234,209	267,609	33,400	14.3%
Recruitment	246,953	229,981	204,981	(25,000)	-10.9%
Corporate training	164,095	170,000	155,000	(15,000)	-8.8%
Contracted services - Career Edge interns	150,487	148,600	148,600	0	0.0%
Other purchased services	52,169	56,956	56,956	0	0.0%
Health and safety	69,555	83,330	98,330	15,000	18.0%
Department training	17,744	23,000	23,000	0	0.0%
Water support services recovery	<u>(259,193)</u>	(242,820)	(260,860)	<u>(18,040)</u>	<u>7.4%</u>
Total Expenses	3,118,193	3,239,184	3,203,640	(35,544)	-1.1%





## 4. Functional Responsibilities

#### **Employee and Labour Relations**

- Ensure compliance with legislation/collective agreements/corporate policies
- Collective bargaining, grievances, arbitrations
- Respect in the Workplace Policy investigations

#### **Health and Safety**

- Ensure compliance with legislation and Ministry of Labour initiatives
- Comprehensive corporate training program
- Proactive attendance and disability management

#### Wellness

- Promote health and wellness programs
- Education initiatives and employee support





## 4. Functional Responsibilities

#### **Recruitment and Onboarding**

- Advisory and recruitment services
- Develop employer branding and technological applications to streamline processes
- Onboard new hires from pre-start to first day and through first year

#### **Learning and Development**

Develop learning opportunities and deliver corporate training

#### **Employee Engagement**

- **Diversity, Inclusion and Accessibility** Promote increased sense of belonging/inclusion through employee/leadership development, events, and advisory services
- Recognition Program Promote culture of recognition through various programs





#### 4. Functional Responsibilities

#### **Compensation, Benefits and Pension**

- Ensure pay and benefits are competitive and equitable
- Manage benefit programs and benefits vendors
- Maintain HRIS (Human Resources Information System) to ensure integration of pay/HR/time systems
- Educate employees re: benefits and retirement

#### **Reporting and Analytics**

- Provide analytics to support workforce planning
- Manage data for HRIS and other corporate needs





#### 5. Summary

- HR provides core business services to ensure positive stakeholder relations, risk management and the strategic leveraging of human capital in alignment with City's strategic direction
- Ongoing pressures include changing legislation and impacts, ensuring value for tax dollars, increasingly complex workforce and organizational needs
- In addition to core services, HR aims to provide increased strategic support as the
  organization grows, namely in areas such as policy development, human capital
  strategy, employee engagement, increased reporting/analytics, with a continued
  focus on technology, innovation and streamlining processes





## 6. 2020 Capital Budget Requests

# No capital budget requests





# **Legal Services**

2020 Budget

Claudia Storto, City Solicitor





## Agenda

- 1. Department Introduction
- 2. Organizational Chart
- 3. Operating Budget
- 4. Responsibilities
- 5. Summary
- 6. 2020 Capital Budget Requests





## 1. Department Introduction

The primary functions and duties of the Legal Services Department include:

- Provision of legal advice to Council, Committees and City staff
- Representation at legal proceedings
- Managing litigation





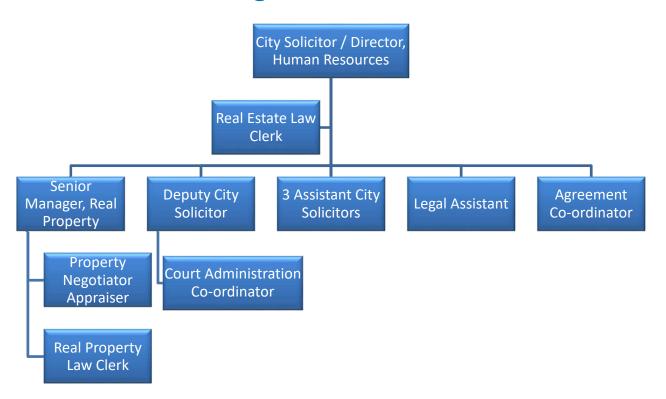
## 1. Department Introduction (continued)

- Agreement drafting, review and negotiation
- By-law drafting and review
- Support the City's municipal corporations (MEC, MDEI)
- Acquisition, disposition and lease of real property
- Managing the City's real property portfolio





## 2. Organizational Chart







				Budget 202	0 vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
	\$	\$	\$	\$	%
Revenues	525,341	300,126	300,126	0	0.0%
Expenses	1,932,758	<u>2,172,854</u>	<u>2,334,843</u>	<u>161,989</u>	<u>7.5%</u>
Net Expenditures/(Revenues)	1,407,417	1,872,728	2,034,717	161,989	8.6%





			Budget 2020 Preliminary Increase/		vs. <b>201</b> 9	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change	
Revenues	\$	\$	\$	\$	%	
USER FEES & CHARGES						
Development & site plan agreements	<u>525,341</u>	300,126	<u>300,126</u>	<u>0</u>	0.0%	
Total Revenues	525,341	300,126	300,126	<u>0</u>	0.0%	





			Preliminary	Budget 2020 Increase/	vs. 2019
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
<u>Expenses</u>	\$	\$	\$	\$	%
SALARIES & BENEFITS	1,725,379	1,886,030	2,070,147	184,117	9.8%
MATERIALS & SUPPLIES					
Office and administrative supplies	20,840	27,670	27,200	(470)	-1.7%
PURCHASED SERVICES					
External legal services	147,317	215,990	200,960	(15,030)	-7.0%
Real estate services	36,252	40,660	40,660	0	0.0%
Training seminars and conferences	7,967	9,471	20,971	11,500	121.4%
Other purchased services	53,090	65,102	67,605	2,503	3.8%
Water support services recovery	<u>(58,087)</u>	<u>(72,069)</u>	<u>(92,700)</u>	(20,631)	<u>28.6%</u>





# 4. Responsibilities





## 4. Legal Services

#### Practice areas include:

- General Municipal Law
- Corporate, Contract and Procurement Law
- Intellectual Property Law
- Planning, Development and Environmental Law
- Litigation and Prosecutions
- Real Estate and Conveyancing
- Employment and Labour Law





## 4. Real Property Services

#### Services include:

- Property acquisition and disposition
- Negotiation of various agreements
- Managing licensing and lease renewals and extensions
- Identifying value add real estate opportunities
- Due diligence
- Appraisal analysis of land values





## 5. Summary

- As the City grows, legal issues and complexities increase
- In 2018 2019, Legal Services supported major City initiatives, including:
  - ✓ Bill 108 review and implementation
  - ✓ Markham Official Plan LPAT appeals
  - ✓ New by-laws (cannabis, waterworks system, etc.)
  - ✓ Construction Act review and implementation
  - ✓ York University agreement
  - ✓ New infrastructure agreements
  - ✓ Acquisition of strategic lands





## 5. Summary (continued)

- Department modernization initiatives:
  - o streamline processes, procedures, document management
  - implement technological supports
  - increase cross-departmental communication and collaboration
  - strengthen proactive approach to service delivery
- Legal Services has not added staff since 2012
- Staff resources directly impact service levels
- An additional Assistant City Solicitor is required to meet the City's current needs and emerging priorities





## 6. 2020 Capital Budget Requests

## No capital budget requests





# Markham Fire and Emergency Services

2020 Budget

**Dave Decker** 





## Agenda

- 1. Department Introduction
- 2. Organizational Chart
- 3. Operating Budget
- 4. Responsibilities
- 5. Summary
- 6. 2020 Capital Budget Requests





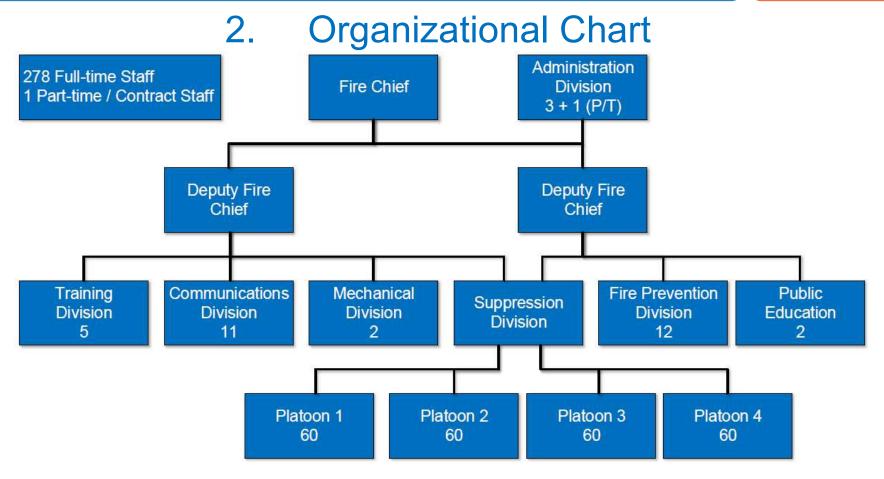
## 1. Department Introduction

Fire and Emergency Services is comprised of six (6) Divisions:

- 1. Administration
- 2. Fire Prevention / Education
- 3. Suppression
- 4. Training
- 5. Communications
- 6. Mechanical











	2018 Actual	2019 Budget	Preliminary 2020 Budget	Budget 2020 Increase/ (Decrease)	0 vs. 2019 Change
	\$	\$	\$	\$	%
Revenues	365,341	387,445	387,445	0	0.0%
Expenses	<u>37,781,358</u>	<u>39,313,670</u>	<u>39,451,280</u>	<u>137,610</u>	0.4%
Net Expenditures/(Revenues)	37,416,017	38,926,225	39,063,835	137,610	0.4%





<u>Revenues</u>	2018 Actual \$	2019 Budget \$	Preliminary 2020 Budget \$	Budget 202 Increase/ (Decrease) \$	0 vs. 2019 Change %
USER FEES & CHARGES					
MTO Recoveries, Fire Reports, Fees, Licenses	<u>365,341</u>	<u>387,445</u>	<u>387,445</u>	<u>0</u>	0.0%
Total Revenues	365,341	387,445	387,445	0	0.0%





				Budget 2020 vs. 2019	
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
<u>Expenses</u>	\$	\$	\$	\$	%
SALARIES & BENEFITS	36,823,964	38,307,574	38,429,235	121,661	0.3%
OPERATING MATERIALS & SUPPLIES	447,209	459,590	467,090	7,500	1.6%
PURCHASED SERVICES					
Utilities	238,162	273,830	273,830	0	0.0%
Contracted & Professional Services	<u>272,023</u>	<u>272,676</u>	<u>281,125</u>	<u>8,449</u>	3.1%
Total Expenses	37,781,358	39,313,670	39,451,280	137,610	0.4%





## 4 (a) Fire Administration

#### Leadership

- 6.(3) of the Fire Protection and Prevention Act states that the Fire Chief is the person who is ultimately responsible to the Council of a municipality that appointed him or her for the delivery of fire protection services
- Three managers are responsible for 278 Staff

#### **Personnel Management**

- Labour relations with the Firefighters Association: collective bargaining, grievance.
- Health and Safety Compliance (Occupational Health and Safety Act, Section 21 Guidance Notes)
- Recruitment, Succession Planning and Promotional Processes

#### **Strategic and Business Planning**

- Budget Planning and Procurement
- Capitol Projects (Life Cycle)

#### **Report Management**

- Administrative Management and Documentation
- Planning (Master Fire Plan)
- Risk Management and Legislative Compliance (Risk Assessment Regulation 378/18)

#### **Emergency Management**

Lead Role - Deputy Fire Chief Designated as CEMC in accordance with Provincial Legislation





## 4 (b) Fire Prevention/Education

14 Staff (6 Assigned to 8100 Warden - 8 Assigned to Stations)

#### **Fire Inspection**

Code and Bylaw Enforcement (Legislative Compliance)

- 2,045 Inspections Complaint or Legislative
- 85% of properties inspected result in written Orders to Comply with the Fire Code

Fire Investigation - Responsibility to investigate per the FPPA

35 Fires investigated

#### **Public Education, Special Projects and Events**

- 75 Special Projects and Events Attended
- 25,000 People of all ages and demographics engaged annually

#### Plans Examination / Fire Safety Plans

500+ Plans Examined

1st and 2nd Lines of Defense





## 4 (c) Fire Suppression Division

#### 240 Officers and Firefighters (60 per Platoon) 24/7 Operation

#### **Emergency Response**

- Average of 20 incidents responded to each day
- Response to fires, medical, rescue and other emergencies

#### Training (on-shift)

- Skills and Knowledge Maintenance Training (minimum 2 hours per day per FF)
- Legislative Training including Technical Rescue, Fire Suppression, Medical, Mental Health,

#### Fire Prevention/Education

- School Program (78 schools 900+ Visits)
- Public Events (300+ events annually)
- Building Pre-Incident Fire and Response Planning

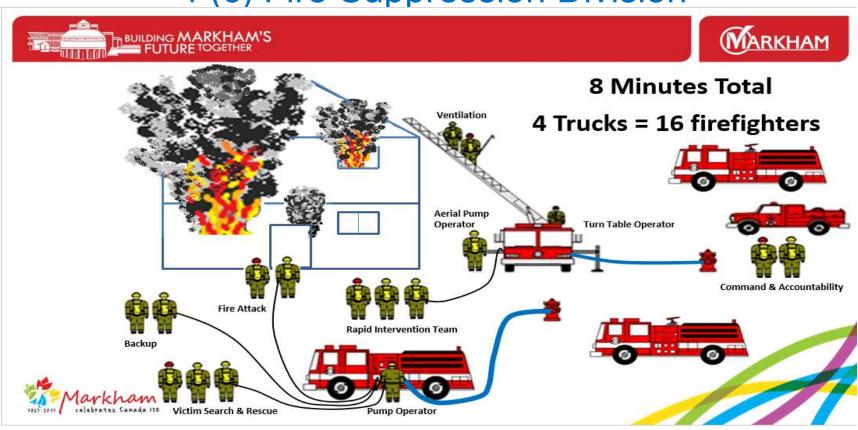
#### Other Duties as Assigned

- Daily legislated truck inspection and equipment inspection and maintenance
- Hose Testing (12 km of hose) Legislated Requirement
- Self Contained Breathing Apparatus Maintenance and Testing (94 Breathing Apparatus & 300 Masks & Valves)
- On-Shift Instructors provide various programs: Medical, HAZMAT, Rope, Vehicle Extrication, Ice/Water Rescue





## 4 (c) Fire Suppression Division







## 4 (d) Training Division

#### 1 Chief Training Officer and 4 Training Officers

#### **Program Research, Planning and Delivery (Legislative)**

On-going Maintenance and New Programs (Legislative / Mandatory)

- 30,000 of hours of training including program development and delivery
- Meet legislative compliance and provides for public and firefighter safety

#### **Promotional Exam Preparation and Succession Planning**

Training Staff involved in the administration of 30 promotional processes

#### **Recruit Training Programs**

- Public Engagement Recruitment Information Sessions (3 Annually)
- Average 2 recruit programs annually (10 weeks in duration for up to 12 recruits)

#### **Management of On-Shift Instructors**

Program management: professional development, program development and continuous improvement

#### **Purchase of Equipment**

Subject Matter Experts assigned to assist with equipment procurement





## 4 (e) Communications Division

#### **Communications Supervisor and 10 Alarm Room Operators**

#### Secondary - Public Safety Answering Point (PSAP)

- Manage incoming and outgoing fire business and emergency phone calls
- Provide City of Markham after hours 24/7 for ALL services provided
- Manage up to 200 telephone calls per day 24/7 365 (73,000 phone calls)
- Annual reporting of response times
- 911 is a Regional Responsibility (Primary PSAP)

#### Dispatch and manage emergency incidents and monitor radio communications

- Average 20 emergencies daily / 60 second processing time (in accordance with NFPA Standard 1221)
- First point of contact for public fire related inquiries
- Vital link to firefighter safety and well being
- Manage mutual aid activations





# 4 (f) Mechanical Division

#### 2 Emergency Vehicle Technicians (EVT)

#### **Vehicle Repair and Preventative Maintenance**

- 495 Work Orders Processed
- 44 Various vehicles in the Fire Fleet plus 3 Trailers
- Annual Safety Inspections

#### **Fire Equipment Maintenance**

- Special Equipment such as Portable Rescue Hydraulics
- Annual Ground, Aerial Ladder Testing

#### **Vehicle Breakdown Management**

- Maintain fleet of SPARE trucks
- Annual Call-back for Emergency Repairs (12-20 times annually)

#### **Special Projects**

- Vehicle Equipment Procurement
- Specifications and Inspections
- Custom Fabrication





# 5. Summary

Current and future budget requirements will focus on maintaining defined levels of service which will require investment in additional resources to provide programs resulting in the protection of the public and the health and safety of our staff. Primary budget focus includes:

**Staffing Strategies** 

**Training Opportunities and Programs** 

**Operational Efficiencies** 





# 6. 2020 Capital Budget Requests

# See capital budget request forms (e-file)





# **Recreation Services**

2020 Budget

**Mary Creighton, Director** 





# Agenda

- 1. Department Introduction
- 2. Organizational Chart
- 3. Operating Budget
- 4. Responsibilities
- 5. Summary
- 6. 2020 Capital Budget Requests







**Community Centre** 

#### 7 Major Community Centres • 17 satellite facilities

- 5 Fitness Centres
- 10 Arena ice **Pads**
- 14 single gymnasiums
- 6 x 25m **Swimming** Pool
- 2 Outdoor pools

# **Programming** eisure

#### 10.000+ Instructional **Programs** • 86,000+

- Direct Program Registrants
- 800,000+ Drop-in participants
- 4500+ Fitness Members
- 5 Community **Senior Clubs** with 4500+ active members



#### 100+ Minor **Partnership** Sport Organizations, Community groups and Not for profit organizations Community Community

**Department Introduction** 

- Hub with 25 agencies operating weekly programs
- 150,000+ hours of allocated time & spaces for sport organizations

# Markham Pan Am Centre

#### 49 provincial level and above events hosted at the Pan Am Centre Sport

- Development Strategy
- Support Tourism
- 1 x 50m **Swimming** Pool
- Gymnasium



# **Community Volunteers**

#### Building **Employment** skills for many

- 450+ active volunteers
- 2018 **-**48,000 volunteer hours
- Fundamental to good citizenship





# 2. Organizational Chart







				Budget 2020 vs. 2019	
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 budget	(Decrease)	Change
	\$	\$	\$	\$	%
Revenues	22,859,362	23,986,776	25,071,410	1,084,634	4.5%
Expenses	34,845,268	35,280,718	36,217,995	<u>937,277</u>	2.7%
Net Expenditures/(Revenues)	11,985,906	11,293,942	11,146,585	(147,357)	-1.3%





# Revenues-By Activity

				Budget 2020 vs. 2019		
			Preliminary	Increase/		
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change	
<u>Revenues</u>	\$	\$	\$	\$	%	
Facilities	8,471,511	8,953,807	9,205,523	251,716	2.8%	
Aquatics	5,631,083	6,208,205	_ 6,553,168	344,963	5.6%	
Programs + Seniors Centres	3,179,894	3,492,472	3,794,539	302,067	8.6%	
Fitness Centre	2,787,588	2,727,977	2,753,830	25,853	0.9%	
Camps	2,347,767	2,361,920	2,521,075	159,155	6.7%	
Department Support	441,519	242,395	243,276	<u>881</u>	0.4%	
Total	22,869,362	23,986,776	25,071,411	1,084,635	4.5%	





Expe	Preliminary	Budget 2020 vs. 2019 Increase/			
	2018 Actual 2019 Budget		2020 Budget	(Decrease)	Change
	\$	\$	\$	\$	%
Expenses					
SALARIES & BENEFITS	22,672,394	22,898,543	23,363,157	464,614	2.0%
MATERIALS and SUPPLIES					
Building and Program Supplies	1,157,921	1,295,646	1,331,996	36,350	2.8%
Program Support	185,931	163,954	182,689	18,735	11.4%
PURCHASED SERVICES					
Utilities	6,212,827	6,255,359	6,255,359	0	0.0%
Facility Maintenance	1,627,917	1,638,390	1,825,833	187,443	11.4%
Contracted Services and Maint. Agreements	1,445,629	1,680,205	1,907,477	227,272	13.5%
Credit Card Processing Fees	335,359	332,796	342,796	10,000	3.0%
Mandatory staff training and exam fees	139,789	143,298	144,498	1,200	0.8%
Program Support	386,235	423,222	415,935	(7,287)	-1.7%
TRANSFER TO OWN FUNDS					
Annual Transfer to Lifecycle Reserve	532,474	369,262	369,262	0	0.0%
Other Expenditures	148,792	80,043	78,993	(1,050)	<u>-1.3%</u>
Total Expenses	34,845,268	35,280,718	36,217,995	937,277	2.7%





# 4. Responsibilities







# **Aquatics - Our Numbers**











**554** Certified and Trained Lifeguards + Swim Instructors **174** Volunteers

**30,914** registered participants in swimming lessons

Drop-in users participated in Lane + Recreational Swims

304,792

**5,733** pool hours permitted to 6 Community Aquatics groups

Lifesaving Club of Markham

**300+** Active Members

Ontario Jr. Lifeguard Champions (2017-2019)





# Aquatics

- Operation of Public Pools are legislated through the Health Protection and Promotion Act under O.Reg. 565: Public Pools 2018 and O.Reg. 428/05: TSSA
- Staffing Recruitment of new staff is challenging
  - Mandatory Aquatics staff quarterly training (Example: Scanning Techniques, Rescue Drills, Dealing of injured and distressed swimmers)
  - 11,080 hours of mandatory training (20 hours per staff) per year provided to Aquatics staff
- Special Programs
  - Swim to Survive Through partnership with Lifesaving Society, Free swimming lessons are offered for all Grade 3s & 7s. (Since 2014 – 11,096 kids)
  - York Region School Board Partnership to provide certification program at low cost.





# Programs & Camp – Our Numbers











650+ Programs staff

253 Camps staff

**189** Volunteers

11,977 Camp Participants

**329** Unique Camps Offered

158,358

Drop In participants

40,000+ Registered Program Participants Inclusion
Support for
500+
Community
members





# **Programs & Camps**

- ECO Camp at Chimo (Fully accredited by the OCA) is a specialized outdoor camp that allow campers to experience camp in an outdoor setting.
  - 1,000+ campers at Camp Chimo annually
- Launched Markham Sports League to Markham residents.
  - 28 teams for Basketball 6 team volleyball league
  - 36 Pickleball player ladder
- Community Hub @ Aaniin
  - 25 Service Provider that provide weekly workshops for Community (EX: Markham Stouffville Hospital, Legal Aid, York Region Family Services, etc.)





### Seniors

- Recreation partners with 5 local senior clubs to provide programs and activities to 4500+ active members. Partnership is guided by Older Adult Clubs Facility Use *Policy (PO 05.01)*
- Activities and Programs within each club are operated by over 500+ volunteers within Older Adult Clubs.
- Each club offers over 50 weekly activities for older adult members in community centres across Markham
- Local partnerships are fostered with Senior Clubs operated by an independent board.
- Lead the Older Adult Strategy Implementation



4500+ active Senior Club Members





# Facilities – Our Numbers









9,202,560

Community Centre visits in 2018 1,331,429
square foot of combined
Recreational
Space

Energy Reduction \$101,925 in cost savings (2018) Recreation Lifecycle Total Assets \$136,790,638





# Community Centres & Satellite Locations

- Energy Efficient Opportunities
  - Lighting Retrofits
  - BAS Replacements
  - Mechanical Replacements
- 2018 Facility team refreshed its Facility standards, which outline routine duties to ensure that facilities are well maintained and meet service standards.
- Implementation of the Opteon XP10 refrigeration system @ Markham Village C.C. (First in Ontario)
- In the event of a community emergency requiring evacuation, Recreation facilities host Reception Centres





# **Fitness**









**4,568**unique fitness members

Fitness
Centres &
Programs
accessed
508,301
times

**3,624** group fitness class registrants

**1,584**Personal Training Sessions





#### **Fitness**

- All inclusive membership at the 5 fitness centres includes access to pools, ice rinks, walking track and fitness classes.
- Growth in Fitness Membership over 5 years (948 Members = 26% Increase)
- 2017 New Business Model for Personal Training
  - 2016 revenue \$5,818
  - 2018 revenue \$97,515
- 2018 partnership with Canadian Sport 4 Life to promote "Prescription to Get Active" program.
- 2019 Commit to Fit Campaign. Sold 1344 3 for 2 memberships in 2018 – with a retention rate of 21.61%
- NEW IN 2019 Fitness in the Park (Community Engagement) Aaniin, Unionville BandStand, Heintzman House





# **Sport Development**









49 weekends out of 52 provincial/nation al/ international events held in 2018

Total **107** events.

Sport Tourism

2018 World Junior
Badminton
Championship

Markham In Motion

**503** Recreation programs

Number of visitors (2018)

376,834





# **Sport Development**

- Pan Am Centre the new location for High Performance Centre for Rhythmic Gymnastics of Canada
- Sport Strategy Highlights:

#### **Sport Tourism**

- The Markham Pan Am Centre is 10th in Canada for hosting sport events
- World Jr. Badminton Championship -20 days in Markham Economic Impact of \$823,000 in 2018

#### **Coaching Development**

Hosted 4 Coaching workshops with our sport partners

#### **Sport System Sustainability**

Hosted 2 workshops with over 60 participants

#### **Athlete Development**

Hosted 2 workshops





# **Department Support**









156,000+ hours of allocated hours booked for community sport organizations 1,702 Part Time
Staff
Support for
Payroll and
Contract
Management

Systems Support for **86,000+** direct program registrants

10,000+ instructional programs

**27** Annual Marketing Initiatives

**30+** events attended





# **Department Support**

- Its functions include sports fields' bookings, community development and outreach, business systems and liaise between the department and internal customers.
- Division is also responsible in provide support on:
  - Learning and Training Compliance Review
  - Departmental Operating & Capital Budget process
- Completed 2018 Program Data Review through the use of Environics Data, which supports staff to determine new programming for residents.
- First employer for many- education required for new employees on "what it takes to be an employee"





#### 5. SUMMARY

- We have opened 3 facilities since 2011:
  - **Community Centre**
  - Cornell Community Centre and Library December 2012
  - ➤ Aaniin Community Centre and Library December 2017 Sport Facilty
  - Markham Pan Am Centre

Since 2011 our registration has grown by 19.08%, fitness members by 26% and the number of visitors 18.5%. We continue to provide a variety of programs and services to meet the physical and social need of all residents





# 6. 2020 CAPITAL Budget Requests

# See capital budget request forms (e-file)





# **Markham Public Library**

2020 Budget

Catherine Biss, MPL Chief Executive Officer





# Agenda

- 1. Department Introduction
- 2. Organizational Chart
- 3. Operating Budget
- 4. Responsibilities
- 5. Summary
- 6. 2020 Capital Budget Requests





# 1. Department Introduction

- 8 branches providing in-person and digital services, and programs
- The library is administered by a Public Library Board of 15 members appointed by Council, 3 of which are municipal Councillors
- MPL delivers library services that support a livable, caring, cultural and vibrant community
- We utilize award winning innovative business models and technology to efficiently and effectively provide library services



### Mission

Markham Public Library is the place where Markham's communities come together to imagine, create, learn and grow.





# 2. Organizational Chart

72 Full Time Staff 205 Part Time Staff 57 Seasonal Staff 212.72 Total FTE







			Preliminary	Budget 2020 vs. 2019 Increase/		
	<b>2018</b> Actual	2019 Budget	2020 Budget	(Decrease)	Change	
_	\$	\$	\$	\$	%	
Revenues	1,174,060	1,132,432	1,141,689	9,257	0.8%	
Expenses	<u>14,117,108</u>	<u>14,512,720</u>	<u>14,682,205</u>	<u>169,485</u>	1.2%	
Net Expenditures/(Revenues)	12,943,048	13,380,288	13,540,516	160,228	1.2%	





				Budget 2020 vs. 2019		
			Preliminary	Increase/		
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change	
<u>Revenues</u>	\$	\$	\$	\$	%	
<b>USER FEES &amp; CHARGES</b>						
Library Fines & Fees	236,739	265,119	265,119	0	0.0%	
Program User Fees	467,056	482,764	490,963	8,199	1.7%	
GRANTS	308,246	228,778	228,778	0	0.0%	
OTHER REVENUE	<u>162,019</u>	<u>155,771</u>	<u>156,829</u>	<u>1,058</u>	<u>0.7%</u>	
<b>Total Revenues</b>	1,174,060	1,132,432	1,141,689	9,257	0.8%	





				Budget 2020 vs. 2019	
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
<u>Expenses</u>	\$	\$	\$	\$	%
SALARIES & BENEFITS	12,005,909	12,452,239	12,621,447	169,208	1.4%
MATERIALS & SUPPLIES	207,642	160,119	156,101	(4,018)	-2.5%
PURCHASED SERVICES					
Occupancy Costs	814,308	913,308	913,308	0	0.0%
Contracted Services	755,590	713,302	707,299	(6,003)	-0.8%
Utilities	171,101	168,008	168,008	0	0.0%
Professional Services & membership fees	<u> 162,558</u>	<u>105,744</u>	<u>116,042</u>	<u>10,298</u>	<u>9.7%</u>
Total Expenses	14,117,108	14,512,720	14,682,205	169,485	1.2%

## 4. Responsibilities



8 Branches

165,241 sq. ft. of welcoming library space

2.8 million visits



Content

775,149 physical items

64,000 ebooks

Innovative content like the Lendery

5.5 million items borrowed annually



**Digital Services** 

2.8 million digital visits

84% of borrowing through self-service

Digital collaboration hub & makerspace services



Educational Programs

150,000+ participants

60+ community partnerships expand program reach

Focused on early literacy and STEAM



**Community Building** 

15,500 Volunteer Hours

Popups & outreach at community events

Community partnerships to expand library impact





# 5. Summary – 8 Library Branches

#### Challenges

Residents asking for longer open hours

#### **Pressure Points**

Capacity issues

#### Accomplishments

- Highest visits per capita of the GTHA
- Accessible services for all
- Popular Family & Early Literacy Spaces
- Expanded Library Open Hours
- Aaniin Community Centre & Library won 2018
   Interior Design Best of Year Award.
- Self-service material borrowing &sortation systems







# 5. Summary - Content

#### Challenges

- Keeping pace with demand Pressure Points
- Ebook pricing models

#### Accomplishments

- Highest rate of borrowing per capita in the GTHA
- Expanded e-book content
- Markham's first Toy Library & Lendery ("library of things")
- Outsourced & streamlined collection development







#### 5. Summary – Digital Services

#### Challenges

Keeping Pace with Resident Expectations
 Pressure Points

Increasing demand for STEAM classes

#### Accomplishments

- Markham's Centre of Excellence for Digital Literacy
- Digital devices to support digital inclusion & educational success
- Digital programming to develop workplace & skills
- Aaniin Digital Collaboration Hub
- Online staff training modules







#### 5. Summary – Educational Programs

#### Challenges

Capacity for early literacy & STEAM programs

#### **Pressure Points**

Fee-based programs

#### Accomplishments

- Popular Family & Early Literacy Programs
- Learning Place & Summer Camps
- STEAM program curricula
- Online digital courses
- Innovative programming
- New business model for program planning,







### 5. Summary – Community Building

#### Challenges

Volunteer Management

**Pressure Points** 

#### Accomplishments

- First Employer
- 15,522 Volunteer Hours (2018)
- Newcomer Settlement Centre
- 67 community partnerships
- Evidence-Based Library Administration/ Accountability







### 6. 2020 Capital Budget Requests

See capital budget request forms (e-file)





### **Operations Department**

2020 Budget

**Morgan Jones** 





### Agenda

- 1. Department Introduction
- 2. Organizational Chart
- 3. Operating Budget
- 4. Responsibilities
- 5. Summary
- 6. 2020 Capital Budget Requests



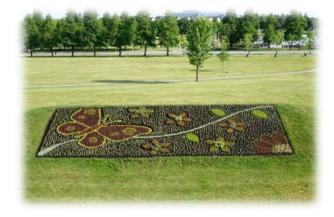


### 1. Department Introduction

The Department is comprised of three divisions:

- Roads, Survey and Utility
- Parks, Horticulture and Forestry
- Business, Fleet and Public Realm











#### 2. Organizational Chart







# 3. Operating Budget Roads, Survey and Utility

	2018 Actual	2019 Budget	Preliminary 2020 Budget	Budget 2020 Increase/ (Decrease)	Change
Revenues	645,565	757,478	679,478	(78,000)	<b>%</b> -10.3%
Expenses  Net Expenditures/(Revenues)	19,030,615 18,385,050	21,632,371 20,874,893	22,321,660 21,642,182	689,289 <b>767,289</b>	3.2% <b>3.7%</b>





# 3. Operating Budget Roads, Survey and Utility

				Budget 2020	vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
Revenues	\$	\$	\$	\$	%
GENERAL REVENUES					_
Road occupancy permits	154,471	289,990	211,990	(78,000)	-26.9%
Utility permit fees	230,773	216,088	216,088	0	0.0%
OTHER INCOME					
- Winter maintenance recovery from developers					
<ul> <li>Curb cut recoveries - requests to widen/add</li> </ul>					
new driveways	260,321	251,400	251,400	<u>0</u>	0.0%
- Pole damage recoveries	200,321	231,400	<u>231,400</u>	<u> </u>	0.070
- Streetlight recoveries from unassumed					
subdivisions					
Total Revenues	645,565	757,478	679,478	(78,000)	-10.3%





### 3. Operating Budget - Roads, Survey and Utility

				Budget 2020	vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
<u>Expenses</u>	\$	\$	\$	\$	%
SALARIES & BENEFITS	4,570,248	5,079,995	5,217,889	137,894	2.7%
MATERIALS & SUPPLIES					
Winter maintenance salt and sand	1,617,793	1,719,062	2,049,200	330,138	19.2%
Other material and supplies	302,682	329,081	296,923	(32,158)	-9.8%
PURCHASED SERVICES					
Winter maintenance contracted services	6,744,754	8,189,564	8,216,738	27,174	0.3%
Streetlight hydro	2,278,178	2,354,007	2,389,007	35,000	1.5%
Asphalt Repairs	1,425,849	1,383,649	1,383,649	0	0.0%
Streetlight Maintenance and Locate Requests	926,062	1,320,259	1,122,509	(197,750)	-15.0%
Catchbasin Cleaning	252,033	298,815	686,487	387,672	129.7%
Pavement Marking	324,994	388,222	388,222	0	0.0%
Street Cleaning	294,119	243,079	252,802	9,723	4.0%
Other Purchased Services	<u>293,903</u>	<u>326,638</u>	<u>318,234</u>	(8,404)	<u>-2.6%</u>
Total Expenses	19,030,615	21,632,371	22,321,660	689,289	3.2%





# 3. Operating Budget Parks, Horticulture and Forestry

	2018 Actual	2019 Budget	Preliminary 2020 Budget	Budget 202 Increase/ (Decrease)	0 vs. 2019 Change
_	\$	\$	\$	\$	%
Revenues	836,878	827,927	848,170	20,243	2.4%
Expenses	9,958,002	10,210,244	<u>10,255,609</u>	<u>45,365</u>	0.4%
Net Expenditures/(Revenues)	9,121,124	9,382,317	9,407,439	25,122	0.3%





# 3. Operating Budget Parks, Horticulture and Forestry

<b>D</b> avanasa	2018 Actual	2019 Budget	Preliminary 2020 Budget	Budget 2020 Increase/ (Decrease)	Change
<u>Revenues</u>	\$	<u> </u>	\$	\$	%
USER FEES & CHARGES					
Sportsfield rental and Park Fees	662,046	640,345	655,950	15,605	2.4%
OTHER INCOME					
Sportsfield hydro recovery and Other Income	174,832	<u>187,582</u>	<u>192,220</u>	<u>4,638</u>	<u>2.5%</u>
Total Revenues	836,878	827,927	848,170	20,243	2.4%





# 3. Operating Budget Parks, Horticulture and Forestry

				Budget 2020	vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
<u>Expenses</u>	\$	\$	\$	\$	%
SALARIES & BENEFITS	7,728,822	7,838,624	7,991,321	152,697	1.9%
MATERIALS & SUPPLIES					
<ul><li>Building Maintenance Supplies</li><li>Turf and Horticulture Materials and Fertilizers</li></ul>	460,413	482,466	472,466	(10,000)	-2.1%
PURCHASED SERVICES					
Sportsfield maintenance	565,266	572,057	572,057	0	0.0%
Contracted services for tree pruning and arboriculture	400,161	420,547	424,547	4,000	1.0%
Facility and General Maintenance	352,439	340,435	322,877	(17,558)	-5.2%
Contracted services for grass cutting	185,578	337,720	246,236	(91,484)	-27.1%
Utilities	157,214	127,690	127,690	0	0.0%
Playground maintenance and Other Purchased Services	<u>108,109</u>	<u>90,705</u>	<u>98,415</u>	<u>7,710</u>	<u>8.5%</u>
Total Expenses	9,958,002	10,210,244	10,255,609	45,365	0.4%





## 3. Operating Budget Fleet, Business Services and Public Realm

				Budget 2020 vs. 201	
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
_	\$	\$	\$	\$	%
Revenues	103,198	86,165	86,165	0	0.0%
Expenses	<u>5,126,084</u>	<u>5,259,185</u>	<u>5,523,748</u>	<u>264,563</u>	<u>5.0%</u>
Net Expenditures/(Revenues)	5,022,886	5,173,020	5,437,583	264,563	5.1%





## 3. Operating Budget Fleet, Business Services and Public Realm

			Preliminary	Budget 2020 Increase/	0 vs. 2019
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
Revenues	\$	\$	\$	\$	%
OTHER INCOME					
<ul><li>- Hazardous waste depot rental revenue</li><li>- Scrap Metal Sales</li></ul>	103,198	<u>86,165</u>	<u>86,165</u>	<u>0</u>	0.0%
Total Revenues	103,198	86,165	86,165	0	0.0%





# 3. Operating Budget Fleet, Business Services and Public Realm

				Budget 2020	vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
<u>Expenses</u>	\$	\$	\$	\$	%
SALARIES & BENEFITS	2,487,365	2,897,238	3,019,345	122,107	4.2%
MATERIALS & SUPPLIES					
Fuel	1,017,162	976,908	1,027,908	51,000	5.2%
Vehicle parts	623,795	499,565	502,565	3,000	0.6%
Other material & supplies	194,686	185,688	183,012	(2,676)	-1.4%
PURCHASED SERVICES					
External vehicle maintenance	302,024	243,014	244,414	1,400	0.6%
Building maintenance and Utilities	234,144	229,111	229,416	305	0.1%
Vehicle rentals	166,145	195,282	240,507	45,225	23.2%
Other purchased services	100,763	<u>32,379</u>	<u>76,581</u>	44,202	<u>136.5%</u>
Total Expenses	5,126,084	5,259,185	5,523,748	264,563	5.0%





### 4. Responsibilities





#### 4. Roads, Survey and Utility

- Is responsible for the maintenance of the City's municipal road and sidewalk network, maintenance of street lights and survey monuments.
- 1,048kms of roads,1,081kms of sidewalks and 33kms of multi-use pathways inclusive of cycle track.
- Other services include supporting special events through road closures (30 per year), traffic control, fence/retaining wall rehabilitation and maintenance of the storm water sewer system.
- Service Delivery is governed by; Occupational Health and Safety Act, Ministry of Labour, O. Reg. 239/02: Minimum Maintenance Standards for Municipal Highways, Ontario Traffic Manual, Municipal Access Agreements, Road Occupancy By-Law (2018-109), Canadian Environmental Protection Act, Department of Fisheries and Oceans, Toronto Region and Conservation Authority, Ministry of Natural Resources and Forestry
- Number of ACRs in 2018 7,461 (16,559 45%)





#### 4. Parks, Horticulture and Forestry

- Is responsible for management and maintenance of 171 parks, 181 sports fields, 207 playgrounds
- Citywide horticulture (streetscape planters, hanging baskets, park and facility gardens, entrance feature garden beds into and within the municipality)
- Is responsible for management and maintenance of urban forestry inclusive of all City street trees (100,000) and valley lands trees (71,000).
- Service Delivery is governed by Occupational Health and Safety Act, Ministry of Labour, Canadian Standard Association, Department of Fisheries and Oceans, Toronto Region and Conservation Authority, Ministry of Natural Resources and Forestry.
- Number of ACRs in 2018 6,521 (16,559- 39%)





#### 4. Fleet, Business Services and Public Realm

- Fleet & Supplies is responsible for the acquisition, maintenance, repair, and parts inventory management, including Fire & Emergency vehicles and apparatus. 256 licensed vehicle and 611 non-licensed vehicles and equipment
- Business Services provides support to the department through;
   administrative/clerical and customer service, accounting services, budget/contract coordination and invoice processing, asset, life-cycle and data analysis
- Public Realm is responsible for Implementation of the Park Renaissance Program,
   Public Art, City's Tree Preservation By-law (2008-96)
- Service delivery is governed by; Occupational Health and Safety Act, Ministry of Labour, Canadian Standards Association, Commercial Vehicle Operators Registry, Technical Standards and Safety Authority, Canadian Environmental Protection Act, Department of Fisheries and Oceans, Toronto Region and Conservation Authority Ministry of Natural Resources and Forestry
- Number of ACR's in 2018 2577 (16,559 16%) Private Tree Permits 799, Fleet
   Work Orders 1778





#### 5. Summary

#### Challenges

Impacts of Growth and Built Form, Yard Expansion(s), Legislative Changes, Green Fleet, Climate Change, Technology, Regional Governance Review

#### Accomplishments

Canada 150, Sakura Tree Donation, Shinrin Yoku, Winter Storms, Electric Vehicles (EVs), Tree Carvings





### 6. 2020 Capital Budget Requests

### See capital budget request forms (e-file)





### **Environmental Services**

2020 Budget

Phoebe Fu





### Agenda

- 1. Department Introduction
- 2. Organizational Chart
- 3. Operating Budget
- 4. Responsibilities
- 5. Summary
- 6. 2020 Capital Budget Requests





#### 1. Department Introduction

Environmental Services provides leadership and expert advice in the development of environmental strategies related to water, wastewater, stormwater, structures, streetlighting infrastructure, waste management, and environmental stewardship initiatives in order to deliver high quality programs and services for a growing community with evolving maintenance and operational requirements.











#### 1. Department Introduction

The Department is comprised of the following divisions:

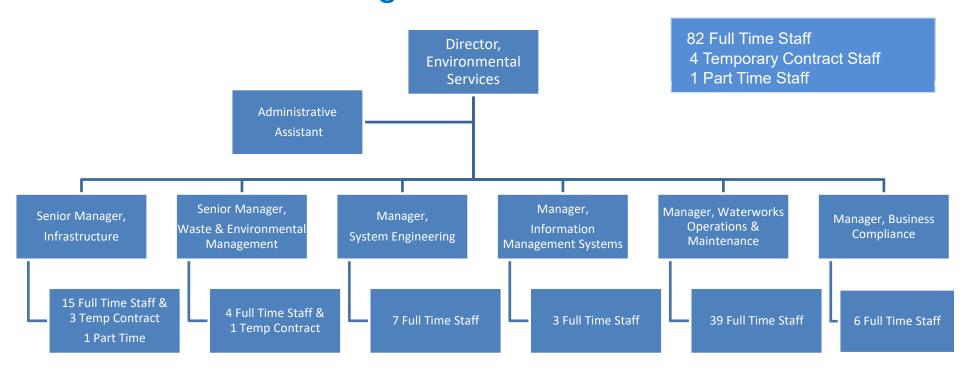
- a. Infrastructure
- b. Waste & Environmental Management
- c. Waterworks







#### 2. Organizational Chart







## 3. Operating Budget Infrastructure

	<b>2018 Actual</b> \$	<b>2019 Budget</b> \$	Preliminary 2020 Budget \$	Budget 2020 Increase/ (Decrease) \$	0 vs. 2019 Change %
Revenues	1,680	0	0	0	0.0%
Expenses	<u>835,625</u>	<u>973,353</u>	<u>943,565</u>	(29,788)	<u>-3.1%</u>
Net Expenditures/(Revenues)	833,945	973,353	943,565	(29,788)	-3.1%





## 3. Operating Budget Infrastructure

				Budget 2020	vs. 2019
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
Revenues	<u></u> \$	\$	\$	\$	%
GRANT & SUBSIDY REVENUES	<u>1,680</u>	<u>0</u>	<u>0</u>	<u>0</u>	0.0%
Total Revenues	1,680	0	0	0	0.0%
<u>Expenses</u>					
SALARIES & BENEFITS	790,159	898,201	864,646	(33,555)	-3.7%
MATERIALS & SUPPLIES	23,277	29,378	29,378	0	0.0%
PURCHASED SERVICES	<u>22,189</u>	<u>45,774</u>	<u>49,541</u>	<u>3,767</u>	<u>8.2%</u>
Total Expenses	835,625	973,353	943,565	(29,788)	-3.1%
Net Expenditures/(Revenues)	833,945	973,353	943,565	(29,788)	-3.1%





# 3. Operating Budget Waste & Environmental Management

	2018 Actual	2019 Budget	Preliminary 2020 Budget	Budget 202 Increase/ (Decrease)	0 vs. 2019 Change
	\$	\$	\$	\$	%
Revenues	1,573,195	1,629,835	1,633,141	3,306	0.2%
Expenses	9,593,922	10,628,736	<u>10,853,802</u>	<u>225,066</u>	2.1%
Net Expenditures/(Revenues)	8,020,727	8,998,901	9,220,661	221,760	2.5%





# 3. Operating Budget Waste & Environmental Management

				Budget 2020 vs. 2019	
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
<u>Revenues</u>	<u></u> \$	\$	\$	\$	%
GRANT & SUBSIDY REVENUES	1,251,286	1,297,284	1,297,284	0	0.0%
USER FEES & CHARGES	150,371	139,002	144,568	5,566	4.0%
OTHER INCOME	<u>171,538</u>	<u>193,549</u>	<u>191,289</u>	(2,260)	<u>-1.2%</u>
Total Revenues	1,573,195	1,629,835	1,633,141	3,306	0.2%





# 3. Operating Budget Waste & Environmental Management

				Budget 2020 vs. 2019	
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
Expenses	\$	\$	\$	\$	%
SALARIES & BENEFITS	676,263	620,431	573,701	(46,730)	-7.5%
MATERIALS & SUPPLIES					
<ul><li>- Purchased bins for resale</li><li>- Public education supplies</li></ul>	270,253	298,806	290,987	(7,819)	-2.6%
PURCHASED SERVICES					
Waste collection costs	8,469,408	9,455,702	9,695,480	239,778	2.5%
Contracted services for depot operations	96,547	169,053	204,430	35,377	20.9%
Other purchased services	<u>81,451</u>	<u>84,744</u>	<u>89,204</u>	<u>4,460</u>	<u>5.3%</u>
Total Expenses	9,593,922	10,628,736	10,853,802	225,066	2.1%





### 3. Operating Budget Waterworks

				Budget 2020 vs. 2019	
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
	<b>\$</b>	\$	\$	\$	%
Water/Wastewater Sale	121,272,982	130,415,851	139,165,269	8,749,418	6.7%
Water/Wastewater Purchase	<u>92,695,785</u>	<u>101,044,615</u>	109,352,071	<u>8,307,456</u>	<u>8.2%</u>
Water/Wastewater Sale Net of Purchase	28,577,197	29,371,236	29,813,198	441,962	1.5%
Other Revenues	1,248,765	1,504,705	1,504,705	0	0.0%
Expenses	<u>14,031,884</u>	<u>15,595,075</u>	<u>15,698,915</u>	<u>103,840</u>	0.7%
Net Surplus	15,794,078	15,280,866	15,618,988	338,122	2.2%
Transfer to Reserve	(15,794,078)	(15,280,866)	(15,618,988)	(338,122)	2.2%
Surplus after Transfer to Reserve	0	0	0	0	0.0%





## 3. Operating Budget Waterworks

				Budget 2020 vs. 2019	
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
	<b>\$</b>	\$	\$	\$	%
Water and Wastewater Sale Net of Purchase					
Water and wastewater sale	121,272,982	130,415,851	139,165,269	8,749,418	6.7%
Water and wastewater purchase	92,695,785	101,044,615	<u>109,352,071</u>	<u>8,307,456</u>	<u>8.2%</u>
Water and wastewater sale net of purchase	28,577,197	29,371,236	29,813,198	441,962	1.5%
Other Revenues					
Developer revenues	589,958	568,525	568,525	0	0.0%
Bulk Water Sales	281,963	391,130	391,130	0	0.0%
Water Meter Sales	257,693	452,600	452,600	0	0.0%
Other revenues	<u>119,151</u>	<u>92,450</u>	<u>92,450</u>	<u>0</u>	0.0%
Total Other Revenues	1,248,765	1,504,705	1,504,705	0	0.0%





### 3. Operating Budget - Waterworks

				Budget 2020 vs. 2019	
			Preliminary	Increase/	
	2018 Actual	2019 Budget	2020 Budget	(Decrease)	Change
<u>Expenses</u>	\$	\$	\$	\$	%
SALARIES & BENEFITS	7,396,879	7,855,584	8,019,917	164,333	2.1%
MATERIALS & SUPPLIES					
Water and sewer material for repairs	130,064	300,110	306,110	6,000	2.0%
Water meter purchase and maintenance	260,930	281,759	288,987	7,228	2.6%
Other Material & Supplies	128,652	287,172	154,905	(132,267)	-46.1%
PURCHASED SERVICES					
Corporate support services chargeback	2,517,302	2,720,449	2,754,636	34,187	1.3%
Maintenance and repair	1,287,683	1,521,053	1,514,148	(6,905)	-0.5%
Water billing contracted cost	1,421,838	1,463,764	1,508,427	44,663	3.1%
Water meter installations	146,471	273,417	277,031	3,614	1.3%
Other purchased services	<u>742,065</u>	<u>891,767</u>	<u>874,754</u>	<u>(17,013)</u>	<u>-1.9%</u>
Total Expenses	14,031,884	15,595,075	15,698,915	103,840	0.7%
Net Surplus	15,794,078	15,280,866	15,618,988	338,122	2.2%
Transfer to Reserve	(15,794,078)	(15,280,866)	(15,618,988)	(338,122)	2.2%
Surplus After Transfer to Reserve	0	0	0	0	0.0%





## 4. Responsibilities





### 4. Infrastructure

#### Major activities include:

- Conducts infrastructure planning and capital programs development
- Performs condition assessment and inventory of infrastructure assets
- Manages the rehabilitation and replacement of infrastructure assets
- Updates and implements Infrastructure Asset Management Plan
- Works with City Departments in relation to design and construction of major linear infrastructure components
- Implements Flood Control Program
- LED Street Light Conversion Program

#### Service Delivery is governed by:

- Ontario Water Resources Act
- O. Reg. 104/97 Standards for Bridges
- O. Reg. 588/17 Asset Management Planning for Municipal Infrastructure









### 4. Waste and Environmental Management

#### Major services include:

- Collects materials from over 88,000 single detached homes and 120 multi-residential buildings
- Manage 4 public recycling depots
- School and Public education programs in water and waste

#### Service Delivery is governed by:

The Regional Municipality of York Act R.S.O. 1990















### 4. Waterworks

#### Major services include:

- Ensure potable water is provided to consumers, conducts regulatory water quality samplings
- Ensure the Quality Management System (QMS) meets and exceeds the requirement for the Province's Drinking Water Quality Management Standard (DWQMS)
- Manages, maintains, rehabilitates, repairs and replaces the city's water distribution system, wastewater collection system and storm sewer pipes
- Provides customer service and emergency response, inspections and commissioning of new watermains
- Reviews water & wastewater capacity to support developments

#### Service Delivery is governed by:

- Safe Drinking Water Act (SDWA)
- Drinking Water Quality Management Standard (DWQMS)









## 5. Summary

Manages 81% of the City's assets valued at \$6.45 billion including:

Watermains	Sanitary Sewers	Storm Sewers	Bridges	Culverts	Streetlights
1,079km	919km	923km	113	234	28,986







**Downspout Disconnection** 





## 6. 2020 Capital Budget Requests

## See capital budget request forms (e-file)



#### 2020 CAPITAL BUDGET

#### a) Project Summary by Department

#### **Development Services**

Economic Development Projects Under Consideration

Culture Projects Under Consideration

Museum Projects Under Consideration

Theatre Projects Under Consideration Pre-Approval

Arts Centre Projects Under Consideration

Planning Projects Under Consideration

Design Projects Under Consideration

Engineering Projects Under Consideration

#### **Corporate Services**

ITS Projects Under Consideration Pre-Approval

Finance Projects Under Consideration

Sustainability Office Projects Under Consideration

Asset Management Projects Under Consideration Pre-Approval

#### **Community and Fire Services**

Fire and Emergency Projects Under Consideration



### **2020 CAPITAL BUDGET**

#### **Community and Fire Services (cont'd)**

Recreation Services	Projects Under Consideration	Pre-Approval
Markham Public Library	Projects Under Consideration	Pre-Approval
Operations-Roads	Projects Under Consideration	
Operations-Parks	Projects Under Consideration	Pre-Approval
Operations-Fleet	Projects Under Consideration	
Operations-Utility Inspection	Projects Under Consideration	Pre-Approval
Operations-Business & Tech	Projects Under Consideration	
ES – Infrastructure	Projects Under Consideration	Pre-Approval
ES – Stormwater	Projects Under Consideration	Pre-Approval
ES – Waste	Projects Under Consideration	
ES – Waterworks	Projects Under Consideration	Pre-Approval

#### **Corporate Wide**

Corporate Wide Projects Under Consideration

# Project Description		70 · 7	T.	T.C. C. I	DC -	DC -	0.1	Description of Other Funding
		Total	Tax	Life Cycle	Reserve	Developer	Other	
rojects Under Consideration								
evelopment Services								
Economic Development								
20001 Markham Economic Strategy		237,800					237,800	Non DC-Growth
TOTAL	Economic Development =	237,800	-	-	-	-	237,800	=
<u> 10112</u>	zeonome zeveropmene							
Culture								
20002 Culture Public Art Master Plan Implementation Phase 1 of 5		249,300	45,000				204,300	Public Art Acq. Res. Fund
	TOTAL Culture	249,300	45,000	-	_	-	204,300	_
	TOTAL CURUIT							
Museum								
20003 Museum - Strickler Barn Phase 2 of 2		83,400		83,400				
20004 Museum - Various Buildings		332,100		332,100				
20005 Museum Maintenance		83,500		83,500				
	TOTAL Museum	499,000	-	499,000	-	-	=	=
Theatre								
20006 Theatre-Building Maintenance		42,200		42,200				
20007 Theatre-Courtyard Replacement (Upper & Lower)		203,900		203,900				Note 1
20008 Theatre-Dressing Room Refurbishment		250,700		250,700				Note 2
20010 Theatre-Parking Lot Swing Gates		15,300		15,300				
20011 Theatre-Stage Equipment & Maintenance		20,000		20,000				
20012 Theatre-Theatrical Lighting Fixture Replacement	_	195,400		195,400				=
	TOTAL Theatre	727,500	-	727,500	-	-	-	
Arts Centres								
20013 Exhibition Galleries & Programs Maintenance		41,700		41,700				
20014 McKay Accessibility Consultant		15,000		15,000				_
	TOTAL Arts Centres	56,700	-	56,700	-	-	-	-
Planning								
20015 Consolidated Zoning By-Law - LPAT Defense and Refinement		521,200					521,200	80 % Build. Fees, 20% Dev. Fees
20016 Consultant Studies		92,000			82,800		9,200	Development Fees
20017 Designated Heritage Property Grant Program		30,000					30,000	Heritage Reserve
20018 Heritage Façade Improvements/Sign Replacement		20,000	20,000					
20019 Housing Summit		20,000			18,000		2,000	Development Fees
20020 Ontario Heritage Conference Host May 2020		20,400	20,400					
20021 Planning & Design Staff Salary Recovery		669,300			669,300			
20022 York Region Employment Survey	_	39,000			35,100			Development Fees
	TOTAL Planning	1,411,900	40,400	-	805,200	-	566,300	
Design								
20024 Box Grove Community Park - Construction		8,875,400			7,987,860		887,540	Park Cash-in-Lieu
20025 Cornell Community Park - Construction		9,329,100			8,396,190		022 010	Park Cash-in-Lieu

# Project Description					DC -	DC -		Description of Other Funding
" Troject Description		Total	Tax	Life Cycle	Reserve	Developer	Other	Description of other 1 unuing
20026 Cornell Parkette - Design & Construction		553,800			498,420		55,380	Park Cash-in-Lieu
20027 Leitchcroft Building - Construction		664,600			598,140		66,460	Park Cash-in-Lieu
20028 Leitchcroft Townhouse Park - Design & Construction		836,800			753,120		83,680	Park Cash-in-Lieu
20029 Wismer McCowan Woodlot Park - Design & Construction		1,269,200			1,142,280		126,920	Park Cash-in-Lieu
20030 York Downs Park - Design & Construction		791,900			712,710		79,190	Park Cash-in-Lieu
<u>1</u>	OTAL Design	22,320,800	-	=	20,088,720	-	2,232,080	=
Engineering								
20031 404 North District Water Supply (PD7) - EA		429,600			429,600			
20032 Active Transportation Awareness Program		86,500			56,225		30,275	Non-DC Growth
20033 Denison Street Extension Environmental Assessment		514,900			514,900			
20034 Downstream Improvements Program (Construction)		1,234,900		432,215	802,685			
20035 Downstream Improvements Program (Design)		319,100		111,685	207,415			
20036 Honda Blvd Extension to 19th Avenue (Design)		401,200			401,200			
20037 Main Street Unionville Road Reconstruction (Design)		496,900					496,900	Non-DC Growth
20038 Markham Centre Trails - Phase 1 (Construction)		965,000			627,250		337,750	Section 37
20039 Markham Centre Trails - Phase 2 (Design)		230,500			149,825		80,675	Section 37
20040 New Traffic Signals - Kirkham/New Delhi (D & C)		344,100			344,100			
20041 Pedestrian Accessibility Improvements Program–Phase 6 of 7		601,200			390,780		210,420	Non-DC Growth
20042 Rouge Valley Trail (Kennedy Road North) – Design		156,600			101,790		54,810	Non- DC Growth
20043 Servicing & Environmental Study- Markville Secondary Plan		443,000			443,000			
20044 Sidewalk Program (Construction)		1,500,000			1,500,000			
20045 Sidewalk Program (Design)		519,500			519,500			
20046 Smart Commute Markham-Richmond Hill		76,300			76,300			
20047 Staff Salary Recovery		713,400			713,400			
20048 Streetlight Program (Construction)		764,800			764,800			
20049 Streetlighting Program (Design)		175,100			175,100			
20050 Traffic Asset Replacement		196,900		196,900				
20051 Traffic Operational Improvements		88,900	88,900					
20052 Transportation Study – Markville Secondary Plan		230,500			230,500			
	L Engineering	10,488,900	88,900	740,800	8,448,370	-	1,210,830	=
TOTAL Develop	ment Services	35,991,900	174,300	2,024,000	29,342,290		4,451,310	_
TOTAL Bertiof	ment services		,	_,,,_,,,,			-,,,,,,,,	_
Corporate Services								
ITS								
20054 Museum Mimsy Upgrade		18,600	18,600					
20055 ITS - Recreation Fitness Training Management Application		10,300	10,300					
20056 ITS - Recreation Facility Tablet Project		30,500	30,500					
20057 Digital Literacy Strategy Implementation - Phase 2 of 2		43,900		43,900				
20058 Library Online Registration & Mobile Printing		25,600	25,600					
20059 ITS-Backflow Prevention Program (Software Enhancements)		26,000					,	Waterworks Reserve
20061 ITS Life Cycle Asset Replacement	<del> </del>	3,273,900		2,712,130				\$168.5k WW, \$393.2k Dev. Fee
	TOTAL ITS	3,428,800	85,000	2,756,030	-	-	587,770	_

# Project Description		Takal	T	Life Cont.	DC -	DC -	Description of Other Funding
		Total	Tax	Life Cycle	Reserve	Developer	Other
Finance							
20062 Bill 108 - Community Benefits Charge By-law		129,200			116,280		12,920 Non-DC Growth
20063 Internal Project Management		928,800			928,800		
	TOTAL Finance	1,058,000	-	-	1,045,080	-	12,920
Sustainability Office							
20064 Facility Energy Management Program		337,800					337,800 MECO
	TOTAL Sustainability Office	337,800	-	-	-	-	337,800
Asset Management							
20065 8100 Warden Facility Repair and/or Replacement Project	ts	337,800		337,800			
20066 Accessibility Retrofit Program		137,700		137,700			
20067 Building Condition Audit - Full Time Staff		144,000		144,000			
20068 Building Envelope/Structural Review		56,100		56,100			
20069 Civic Centre Repair and/or Replacement Projects		345,000		345,000			
20070 Corporate Security Operations & System Replacements		701,700		701,700			
20071 Designated Substances Management		69,400		69,400			
20072 Fire Facilities Repair and/or Replacement Projects		233,200		233,200			
20073 Fire Station Signs - Phase 2 of 2		121,400		121,400			
20074 Library Facilities Repair and/or Replacement Projects		127,700		127,700			
20075 Municipal Building Backflow Prevention Testing		20,400		20,400			
20076 Operations Facilities Repair and/or Replacement Projects	:	764,500		764,500			
20077 Operations Fuel Sites Monitoring		75,200		75,200			
20078 Other Facilities Repair and/or Replacement Projects		211,300		211,300			
20080 PVC Salt Dome Demolition		212,400		212,400			
20081 Recycling Depots Repair and/or Replacement Projects		31,300		31,300			
20082 Roofing Maintenance and Repair		143,400		143,400			
20083 Roofing Replacement Projects		410,700		410,700			
20084 Satellite Community Centre Repair and/or Replacement		143,200		143,200			
20085 Tennis Clubhouse Repair and/or Replacement Projects	<u></u>	38,600		23,780			14,820 Tennis Club
	TOTAL Asset Management	4,325,000	-	4,310,180	-	-	14,820
	TOTAL Corporate Services	9,149,600	85,000	7,066,210	1,045,080	-	953,310
ommunity & Fire Services							
Fire & Emergency Services							
20086 Air Cylinders 45+ Minutes Replacement		88,600		88,600			
20087 Bunker Gear Replacement		168,900		168,900			
20088 Defibrillator & Accessories Replacement		75,300		75,300			
20089 Firefighting Tools & Equipment Replacement		100,000		100,000			
20090 Hazardous Materials - Decontamination Tent		20,900		20,900			
20091 Hose Rolling Equipment Replacement		12,300		12,300			
20092 Rapid Intervention Rescue Packs Replacement		8,700		8,700			
20093 Replacement of Equipment due to Staff Retirements		95,300		95,300			
20094 Rescue Equipment - Powered Hydraulics Replacement		93,500		93,500			

10/24/2019 Page 3 of 10

# Project Description				DC -	DC -		Description of Other Funding
•	Total	Tax	Life Cycle	Reserve	Developer	Other	, v
20095 Rescue Equipment - Water Rescue Equipment Replacement	42,600		42,600				
TOTAL Fire & Emergency Services	706,100	-	706,100	-	-	-	_
ecreation Services							
20096 Angus Glen C.C. Arena Condenser Replacement	203,500		203,500				
20097 Angus Glen C.C. Flooring Replacement	75,700		75,700				
20098 Angus Glen C.C. Gym Curtain Replacement	34,600		34,600				
20099 Angus Glen C.C. Lifeguard Chair Replacement	9,300		9,300				
20100 Angus Glen C.C. Rooftop Condenser Replacement	132,300		132,300				
20101 Armadale C.C. Fire Prevention System Replacement	218,500		218,500				
20102 Armadale C.C. Millwork Replacement	132,200		132,200				
20103 Armadale C.C. Rooftop Unit Replacement	136,600		136,600				
20104 Centennial C.C. Gas Monitors Replacement	10,000		10,000				
20105 Centennial C.C. HVAC Replacement	56,000		56,000				
20106 Centennial C.C. Pool Equipment Replacement	21,500		21,500				
20107 Centennial C.C. Saunas Replacement	17,200		17,200				
20108 Centennial C.C. Surge Drum Replacement	37,000		37,000				
20109 Centennial C.C. Washroom Heater Replacement	6,400		6,400				
20110 Clatworthy Arena Brine Pump Replacement	23,400		23,400				
20111 Cornell C.C. Aerial Platform Replacement	19,700		19,700				
20112 Cornell C.C. CO2 Controller Replacement	9,300		9,300				
20113 Cornell C.C. Drinking Fountains Replacement	15,000		15,000				
20114 Cornell C.C. Floor Grates Replacement	8,000		8,000				
20115 Cornell C.C. Glass Grommets Replacement	21,400		21,400				
20116 Cornell C.C. Library Carpet Replacement	34,000		34,000				
20118 Cornell C.C. Power Washer Replacement	8,400		8,400				
20119 Cornell C.C. Pumps Replacement	84,000		84,000				
20120 Cornell C.C. Shower Valves Replacement	17,200		17,200				
20121 Crosby C.C. Garbage Fence Enclosure Replacement	8,000		8,000				
20121 Crosby C.C. Millwork Replacement	47,600		47,600				
20122 Crosby C.C. Pump Replacement	36,600		36,600				
20123 Crossby C.C. Fump Replacement 20124 ECO Camp Chimo Equipment Replacement	35,700		35,700				
20124 ECO Camp Chinno Equipment Replacement	24,000		24,000				
20126 Heintzman House Fireplace Gas Insert	7,100		7,100				
20128 Heintzman House Stove Replacement	8,100		8,100				
20128 Markham Village C.C. Ceiling Tile Replacement	13,100		13,100				
20129 Markham Village C.C. Ceiling The Replacement 20130 Markham Village C.C. Marquee Replacement	14,800		14,800				
20130 Markham Village C.C. Shower Tiles Replacement	36,300		36,300				
20131 Markham Vinage C.C. Snower Thes Replacement  20132 Milliken Mills C.C. Arena Boards and Frame Replacement	203,500		203,500				
20132 Milliken Mills C.C. Arena Boards and Frame Replacement  20133 Milliken Mills C.C. Arena Heat Exchanger Replacement	14,800		14,800				
÷ .	24,400		24,400				
20134 Milliken Mills C.C. Arena Heater Replacement	859,900		859,900				
20135 Milliken Mills C.C. Arena Pad Replacement	15,400		15,400				
20136 Milliken Mills C.C. Arena Scoreboard Replacement	29,200		29,200				
20137 Milliken Mills C.C. Arena Spectator Seating Replacement	95,100		29,200 95,100				
20138 Milliken Mills C.C. Furnace Replacement	93,100		93,100				

10/24/2019 Page 4 of 10

# Project Description				DC -	DC -	Description of Other Funding
	Total	Tax	Life Cycle	Reserve	Developer	Other
20141 Milliken Mills Soccer Dome Door Replacement	34,100		34,100			
20142 Morgan Pool Equipment Replacement	24,600		24,600			
20143 Morgan Pool Mechanical Replacement	21,800		21,800			
20144 Mt. Joy C.C. Low Emissivity Ceiling Replacement	37,300		37,300			
20145 Mt. Joy C.C. Overhead Doors Replacement	9,800		9,800			
20146 Old Unionville Library Mechanical Replacement	22,400		22,400			
20147 Old Unionville Library Vinyl Tile Replacement	20,400		20,400			
20148 Pan Am Centre Lighting Automation	60,600		60,600			
20149 Pan Am Centre Vestibule	467,300					467,300 From Existing Pan Am Construction
20150 Pan Am Heat Exchanger Reconstruction	28,000		28,000			
20151 Pan Am Pool Equipment Replacement	16,300		16,300			
20152 Recreation AED Program Replacement	18,400		18,400			
20153 Recreation Aquatic Equipment Replacement	85,500		85,500			
20154 Recreation Aquatics Safety Audit	20,400		20,400			
20155 Recreation Autonomous Floor Scrubbers	186,900	93,200	93,700			
20156 Recreation Building Automation System (BAS) Replacement	374,300		374,300			
20157 Recreation Fitness Equipment Replacement	190,300		190,300			
20159 Recreation Painting Projects	134,900		134,900			
20160 Recreation Pool Grouting Replacement	51,900		51,900			
20161 Recreation Program Equipment Replacement	94,400		94,400			
20162 Recreation Rubber Floor Replacement	171,000		171,000			
20163 Recreation Security System Replacement	457,200		457,200			
20164 Recreation Sound System Replacement	50,000		50,000			
20165 Recreation Tables and Chairs Replacement	54,700		54,700			
20166 Rouge River C.C. Pump and Exhaust Fan Replacement	24,900		24,900			
20167 Thornhill C.C. Filter Spa Replacement	10,000		10,000			
20168 Thornhill C.C. Rink Board and Arena Netting Replacement	210,400		210,400			
20169 Thornlea and Clatworthy Shower Replacement	25,900		25,900			
20170 Thornlea Pool Deck Drain Piping Replacement	39,700		39,700			
20171 Unionville Train Station HVAC Replacement	11,000		11,000			
20172 Unionville Train Station Wood Floor Refurbishment	11,000		11,000			
20173 Water Street Senior Centre Facility Improvements	16,700		16,700			
TOTAL Recreation	<u>1 Services</u> 5,929,400	93,200	5,368,900	=	-	467,300
Markham Public Library						
20174 Customer Service Improvement (E-Resources)	55,000	55,000				
20175 Heritage Garbage Enclosure (Unionville Library)	19,300	19,300				
20176 Library Collections	1,198,400		1,198,400			Note 3
20177 Library Furniture, Equipment & Shelving Replacement	143,800		143,800			
20178 Markham Centre Library - Phase 1 of 2	71,200			64,080		7,120 Non-DC Growth
TOTAL Markham Publi	c Library 1,487,700	74,300	1,342,200	64,080	-	7,120
Operations - Roads						
20179 Asphalt Resurfacing	6,873,800					6,873,800 Gas Tax
20180 Boulevard Repairs	57,300		57,300			,,
20181 Bridge Structure Preventative Maintenance - Roads	25,300		25,300			
20101 Dridge Structure I reventative iviaintellance - Roads	25,500		20,000			

# Project Description				DC -	DC -		Description of Other Funding
	Total	Tax	Life Cycle	Reserve	Developer	Other	
20182 City Owned Entrance Feature Rehabilitation/Replacement	280,800		280,800				
20183 City Owned Fence Replacement Program	128,800		128,800				
20184 Don Mills Storm Channel	15,000		15,000				
20185 Emergency Repairs	174,000		174,000				
20186 Guiderail- Install/Repair/Upgrade	114,800		114,800				
20187 Incremental Growth Related Winter Maintenance Vehicles	450,000			450,000			
20188 Localized Repairs - Curb & Sidewalk	859,200		859,200				
20189 Localized Repairs - Parking Lots	119,200		119,200				
20191 Parking Lots- Rehabilitation	208,600		208,600				
20192 Railway Crossing Rehabilitation -Castlemore	163,600		163,600				
20193 Retaining Wall Repair Program	78,700		78,700				
20194 Storm Water Retention Pond Maintenance Program	51,900		51,900				_
TOTAL Operations - Road	9,601,000	-	2,277,200	450,000	-	6,873,800	_
Operations - Parks							
20195 Backstop and Outfield Fence Replacement at Armadale Pk	39,300		39,300				
20196 Bleachers (Metal) Replacement - Grandview Bleachers	11,200		11,200				
20198 Boulevard/Park Trees Replacement	352,300		352,300				
20199 Bridge Structure Preventative Maintenance in Parks	25,300		25,300				
20200 Cemetery Fence Repair at Thornhill Cemetery	44,100		44,100				
20201 City Park Furniture / Amenities	171,600		171,600				
20202 Court Resurfacing/Reconstruction/Maintenance	403,400		403,400				
20203 Cricket Pitch Outfield Screening Repl. at Yarl Cedarwood	82,400		82,400				
20204 Decorative Fountain Replacement at Swan Lake Pk	84,300		84,300				
20205 Goal Posts Replacement	20,200		20,200				
20206 Huntington Pk Floodlights, Poles & Cross Arms Replacemt.	176,500		176,500				
20207 Markham Trees for Tomorrow	122,100	122,100					
20208 Parks Interpretative Signage Implementation - Phase 1 of 3	101,800	101,800					
20211 Recycling Containers Replacement (Yr 3 of 10)	16,600		16,600				
20212 Rejuvenation of Community Centres Landscapes-Year 3 of 3	63,700		63,700				
20213 Relamping & Fixtures Refurbishment	27,000		27,000				
20214 Shade Structure Refurbishment	78,500		78,500				
20215 Sportsfield Maintenance & Reconstruction	137,600		137,600				
20216 Stairway Repairs	247,200		247,200				
20217 Tennis Courts Fence Replacement at Armadale Pk	60,600		60,600				
20218 Tomlinson Waterplay Replacement	337,000		337,000				
TOTAL Operations - Par	ks 2,602,700	223,900	2,378,800	-	-	-	=
Operations - Fleet							
20219 Corporate Fleet Growth - Non-Fleet	10,200			10,200			
20220 Corporate Fleet Refurbishing	37,800		37,800				
20221 Corporate Fleet Replacement - Fire	918,800		918,800				
20222 Corporate Fleet Replacement - Ice Resurfacing Machine	100,200		100,200				
20223 Corporate Fleet Replacement - Non-Fire	710,500		710,500				
20224 Corporate Fleet Replacement - Waterworks	378,400					378,400	Waterworks
20225 New Fleet - Parks	98,900			98,900			

# Project Description				DC -	DC -		Description of Other Funding
	Total	Tax	Life Cycle	Reserve	Developer	Other	2 coordinate of other 1 anumg
20226 New Fleet - Roads	296,600			296,600			_
TOTAL Operations - Fleet	2,551,400	-	1,767,300	405,700	-	378,400	=
Operations - Utility Inspection & Survey							
20227 German Mills Meadow - Equipment Maintenance	110,100		110,100				
20229 Survey Instrument Upgrade/Replacement	18,900		18,900				
20230 Survey Monument Replacement	27,700		27,700				
TOTAL Operations - Utility Inspection & Survey	156,700	-	156,700	-	-	-	=
Operations - Business & Technical Services							
20231 Growth Related Parks Improvements	438,800			394,920		43,880	Non-DC Growth
2023 Public Realm-Markham's Shared Places Our Spaces	221,600	221,600		/- =-		- ,	
TOTAL Operations - Business & Technical Services	660,400	221,600	-	394,920	-	43,880	=
nvironmental Services - Infrastructure	68,800		68,800				
20233 Bridges and Culverts - Condition Inspection	25,900		25,900				
20234 Confined Space Assessment for Culverts	27,000		27,000				
20235 MNRF Monitoring for Capital Projects at Water Crossings	645,100		165,735			470 265	Gas Tax
20236 Storm Sewer Pipes - Rehabilitation	1,585,200		228,200			*	Waterworks Reserve
20237 Storm/Sanitary Sewer & Sanitary Laterals CCTV Inspection	106,300		106,300			1,337,000	Waterworks Reserve
20238 Stormwater Pumping Stations - Maintenance	1,828,800		1,828,800				Note 4
20239 Streetlight Poles & Cable Replacement (Varley Village)	152,600	152,600	1,020,000				Note 4
20240 Streetlights - Miscellaneous Requests	92,000	132,600	92,000				
20241 Streetlights - Pole Condition Inspection Program	124,200		124,200				
20242 Streetlights - Poles Replacement Program	187,200		187,200				
20243 Streetlights - Underground Cable Condition Inspection			*				
20244 Structures Program-Full-time Staff	145,500		145,500				N
20245 Structures Rehabilitation (5 Structures) - Design & Const.	457,200		457,200				Note 5
20246 Toogood Dam - Structural Inspection	20,100		20,100				=
TOTAL Environmental Services - Infrastructure	5,465,900	152,600	3,476,935	-	-	1,836,365	
Environmental Services - Stormwater							
20247 German Mills Settlers Park Erosion Protection-Cost Sharing	223,900		223,900				
20248 Oil Grit Separators (OGS) - Inspection and Cleaning	215,400		215,400				
20249 SWM Pond Cleaning - Ponds ID#25 & ID#67	1,094,200					1,094,200	Gas Tax
20250 Water Quality Improvements and Geese Control	27,600		27,600				
20251 Water Quality Monitoring	27,600		27,600				■
TOTAL Environmental Services - Stormwater	1,588,700	-	494,500	-	-	1,094,200	_
nvironmental Services - Waste							
20253 Incremental Growth Related Waste Management Vehicles	100,000			100,000			
TOTAL Environmental Services - Waste	100,000	-	-	100,000	-	-	=

10/24/2019 Page 7 of 10

# Project Description		Tatal	T	Life Coals	DC -	DC -	041	Description of Other Funding
		Total	Tax	Life Cycle	Reserve	Developer	Other	
Environmental Services - Waterworks								
20254 Calibration of Water Quality Model		193,400						Waterworks Reserve
20255 Cathodic Protection of Cast Iron Watermains		378,900						Waterworks Reserve
20257 CI Watermain Replacement - Construction & CA		5,729,700						Waterworks Reserve
20259 Curb Box Inspection and Replacement Program		614,100						Waterworks Reserve
20260 I/I Investigation - Carlton Pump Station Catchment Area		101,800						Waterworks Reserve
20261 Sanitary Sewers - Rehabilitation		910,600					,	Waterworks Reserve
20262 Suspended Watermains - Condition Inspection		52,900						Waterworks Reserve
20263 Update of Wastewater System Hydraulic Model		213,700					,	Waterworks Reserve
20264 Wastewater Flow Monitoring - Annual Program		152,600						Waterworks Reserve
20266 Water Meters - Replacement Program		996,700					· · · · · · · · · · · · · · · · · · ·	Waterworks Reserve
20267 Waterworks Equipment	_	73,200						Waterworks Reserve
TOTAL Environmenta	l Services - Waterworks	9,417,600	-	-	-	-	9,417,600	
TOTAL Con	munity & Fire Services	40,267,600	765,600	17,968,635	1,414,700	-	20,118,665	<del>-</del> -
Corporate Wide 20268 Corporate Capital Contingency		2,591,300	18,460	393,965	1,831,960		346 915	Various Other Ext'l & Int'l, Note 6
	======================================	2,591,300	18,460	393,965	1,831,960		346,915	<u> </u>
<u>,</u>	OTAL Corporate Wide	2,391,300	10,400	393,903	1,031,900	-	340,913	
TOTAL Project	 ets Under Consideration	88,000,400	1,043,360	27,452,810	33,634,030		25,870,200	<del>-</del>
TOTALTIQUE		,,	-,,		,,		,,	=
e-Approved Projects								
velopment Services								
retopment services								
eatre								
20007 Theatre-Courtyard Replacement (Upper & Lower)		20,000		20,000				Note 1
20008 Theatre-Dressing Room Refurbishment		40,000		40,000				Note 2
20009 Theatre-HVAC Quantity Survey		10,200		10,200				
20007 Induct III The Quality Survey	TOTAL Theatre	70,200		70,200				=
	TOTAL THEATTE	70,200		70,200				
TOTA	L Development Services	70,200		70,200				<del>-</del> -
rporate Services								
portite Services								
S								
20053 E-Ticketing and Payment System Platform Replacement		750,200		750,200				
20033 E-Ticketing and Fayment System Flatform Replacement		,		,				
2000 Enterprise Scheduling Software Solution		183,200		183,200				_

#### Asset Management

10/24/2019 Page 8 of 10

# Project Description					DC -	DC -		Description of Other Funding
		Total	Tax	Life Cycle	Reserve	Developer	Other	
20079 Parking Lot Light Replacement		490,600		490,600				_
	TOTAL Asset Management	490,600		490,600	-		-	•
	_							-
	TOTAL Corporate Services	1,424,000	-	1,424,000	-	-	-	-
Community & Fire Services								
Recreation Services								
20117 Cornell C.C. Parking Garage Rehabilitation Phase	1 of 2	248,900	248,900					
20127 Heintzman House Floor Refinishing		18,100		18,100				
20139 Milliken Mills C.C. Lobby Enhancement		597,100		70,500			526,600	Gas Tax
20158 Recreation Lighting Project Replacement	_	250,600		250,600				-
	TOTAL Recreation Services	1,114,700	248,900	339,200			526,600	•
larkham Public Library								
20176 Library Collections		1,598,200		1,598,200				Note 3
<u>.</u>	TOTAL Markham Public Library	1,598,200		1,598,200				•
perations - Parks								
20197 Block Pruning Initiative - Year 1 of 3		1,017,600	1,017,600					
20209 Pathways Resurfacing		139,800	1,017,000	139,800				
20210 Playstructure Replacement		841,900		841,900				
	TOTAL Operations - Parks	1,999,300	1,017,600	981,700				•
perations - Utility Inspection & Survey								
20228 German Mills Meadow - Environmental Monitorin	g Program	330,400		330,400				
	ions - Utility Inspection & Survey	330,400		330,400				:
TOTAL Operati	nous - Curry Inspection & Survey	330,400		330,400				
S - Infrastructure								
20239 Streetlight Poles & Cable Replacement (Varley Vil	= :	362,000		362,000				Note 4
20245 Structures Rehabilitation (5 Structures) - Design &		150,000		150,000				Note 5
	TOTAL ES - Infrastructure	512,000		512,000				
S - Stormwater								
20252 West Thornhill Flood Control Implementation - Ph	3A Cons.	10,868,900					10,868,900	Gas Tax and Stormwater Reserve
	TOTAL ES - Stormwater	10,868,900		<u> </u>			10,868,900	
S - Waterworks								
20256 CI Watermain Rehabilitation - Design		437,100					437,100	Waterworks Reserve
20258 CI Watermain Replacement-West Thornhill Ph 3A		5,897,500					5,897,500	Waterworks Reserve
20265 Wastewater System Instruments - Replacement		15,300					15,300	Waterworks Reserve
	TOTAL ES - Waterworks	6,349,900					6,349,900	-

Page 10 of 10

## CITY OF MARKHAM 2020 CAPITAL AND OTHER PROGRAMS BUDGET by Department

# Project Description		Total	Tax	Life Cycle	DC - Reserve	DC - Developer	Other	Description of Other Funding
	TOTAL Community & Fire Services	22,773,400	1,266,500	3,761,500	-	-	17,745,400	-
Corporate Wide								
Corporate Wide								
20268 Corporate Capital Contingency		94,000	11,000	31,400			51,600	Gas Tax; Note 6
	TOTAL Corporate Wide	94,000	11,000	31,400	-	-	51,600	-
	TOTAL Corporate Wide	94,000	11,000	31,400	-	-	51,600	<del>-</del> -
	TOTAL Pre-Approval	24,361,600	1,277,500	5,287,100	-	-	17,797,000	- =
	TOTAL Projects	112,362,000	2,320,860	32,739,910	33,634,030	_	43,667,200	-

#### Notes:

- 1) The overall project budget is \$223,900. The pre-approval request of \$20,000 is for consulting work only.
- 2) The overall project budget is \$290,700. The pre-approval request of \$40,000 is for consulting work only.
- 3) The overall project budget is \$2,796,600. The pre-approval request of \$1,598,200 is to ensure there is no gap in the supply of library materials in Q1, 2020.
- 4) The overall project budget is \$2,190,800. The pre-approval request of \$362,000 is for design work only.
- 5) The overall project budget is \$607,200. The pre-approval request of \$150,000 is for design work only.
- 6) The overall project budget is \$2,685,300. The pre-approval request of \$94,000 represents the contingency amounts required for all project pre-approval requests.



Page 307 of 383

VIARKHAM				~		Num	iber: 20	0001
Project Name: Markhan	n Egonomia Stra	togy				Project Cos	st: \$237	,800
		iegy				:	Studies/Pilot F	rograms
Commission: Developme					Ţ	Jseful Life:	Pre Ap	proval:
Department: Economic					Category:	Maior	1	•
Project Mgr: Christina I				Cos		Other(specify	in Notes)	
Ward(s): $CW \boxed{\bullet} 1$	2 3 4 4			Requirement Validation:				
5 🗆	6 7 8			rtoquiromon	a vandanom	outer(speein)	111 1 (0105)	
DETAILED DESCRIPTION								
he City's 10-year Economi								
performance review of M								
f updating. The new econo								
nvestment targets & best m								
ew business formation; tale								relates to
usiness and talent attractio	n; a 5 year marketin	ig plan w	ith tactics	to strengthen s	trategic mess	aging to target a	udiences.	
BUILDING MARKHAM	'S FUTURE TOG	ETHER:	Engage	ed, Diverse & Th	nriving City			
PROJECT COSTS (\$)	2020	Future	Phases	NOTES				
Cost/Quote:	35,000	1 4141	0			staff experience tives in Markha		
Internal Charges:	85,200		0			s. The economi		
External Consulting:	115,000		0			nent funding op		
						nd will be a veh in charting a pa		
Sub Total:	235,200 2,640		0			s economic pros		
HST Impact: Total Project Cost:	<del></del> -		0	contract (Se	nior Business	Development (		
Total Project Cost.	237,800			manage this	project.			
OURCE(S) OF FUNDIN	<u>G (\$)</u>			Comp	onents			E-4
unding Type	<u>Budget</u>	!	Consultants	Events & marketing	Video/info grap	nics .	Staff TOTAL	Future Phases
on-DC Growth	237,800	11	6,900	15,300	20,400	85,200	237,800	(
TOTAL FUNDING	237,800					-	237,800	
	n		Non P	nugonnal D	lowomac	Ermon 3!4	/(Daya	
OPERATING BUDGET 1	<u>IMPACT</u>	rsonnel			Revenues	Expenditures	,	
		\$0	9	50	\$0	\$0	)	
OCA/LIFE CYCLE DETA	<u>AILS</u>							
<u>DCA</u>					Amount in	Life Cv	zele	

Year

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

Amount

Study

Amount in Study: Amount Incl HST Year in the study

Name



Page 309 of **45** 

MARKHAM	2020 I ROJ.	ECI PUNDI	NO REQU	ESI PO	N	lumber	:: 20	0002
Project Name: Culture	Public Art Mosto	r Plan Imnleme	ntation Phase	1 of 5	Project	Cost:	\$249	,300
		i i ian impicille	mativii i ilast	1013		Stud	ies/Pilot F	Programs
Commission: Developr	nent Services			U	seful Life:	0	Pre Ap	proval:
Department: <u>Culture</u>	C1	·		Category:	Minor			_
Project Mgr: Stephen			Cos	t Validation:		eer revie	w	
	□ 2□ 3□ 4□			Validation:				
5	□ 6□ 7□ 8□		Requirement	· vandation.	Other(spec	, iiy iii i v	0103)	
DETAILED DESCRIPT With the completion of the								
BUILDING MARKHAN	M'S FUTURE TOGE	ETHER: Engage	ed, Diverse & Th	riving City				
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	NOTES To implement	nt the 5-year,	Council-an	proved I	Public Art	Master Pla
Cost/Quote:	200,800	803,100	produced in	2019, \$249,30	00 (\$150,0	00 to coi	mmission	art for Main
Internal Charges:	45,000	180,000		e streetscape, signage and p				
External Consulting:	0	0		is required ar				
Sub Total:	245,800	983,100	by the 5-year	Public Art P	lan.	·		
HST Impact:	3,534	14,135	Reserve Fundaments (\$2.35M)	d: Public Art	Acquisition	ı (curren	it reserve	balance:
<b>Total Project Cost:</b>	249,300	997,200	Ψ2.331(1)					
SOURCE(S) OF FUNDI	NG (\$)		Compo	onents				Entons
Funding Type	<u>Budget</u>	Commission art	Artwork repairs/ maint.	Signage/ promoti	ion C	oordinator 1	TOTAL	Future Phases
Reserve Fund	204,300	150,000	35,000	19,300		0 2	04,300	817,200
7	47.000	0	0		45.00		45.000	100.000

SOURCE(S) OF FUNDING (\$)			Compo	onents			E4
Funding Type	<b>Budget</b>	Commission art	Artwork repairs/ maint.	Signage/ promotion	Coordin	nator TOTAL	Future Phases
Reserve Fund	204,300	150,000	35,000	19,300	0	204,300	817,200
Tax	45,000	0	0	0	45,000	45,000	180,000
TOTAL FUNDING	249,300				=	249,300	997,200

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OT DANKING DED GET INVITATE	\$0	\$0	\$0	\$0	

me	Year	Amount Stud	dv
			Amount in Study:
			Amount Incl HST
			Year in the study



Ward(s):

Daga 211 of 48

MARKHAM	2020 PROJECT FUNDING	REQUEST FORM	Number:	20003
Project Name: Museum	- Strickler Barn Phase 2 of 2	Project	Cost:	\$83,400
			New A	sset/Expansion
Commission: Developme	ent Services	Useful Life:	0	Pre Approval:
Department: Museum	/C 1 M II	Category: Major		**

#### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

CW ✓ 1 □ 2 □ 3 □ 4 □

Project Mgr: Vicky Chan/Cathy Molloy

Phase 2 of this project will renovate the barn space to allow for special events (weddings, parties, etc.) and an increase camp attendance spaces. Work includes structural repairs to the roof to allow for occupany under the Ontario Building Code rather than storage space only. The barn is currently not 'to code' for human occupancy.

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Engaged, Diverse & Thriving City

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	82,000	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	82,000	0
HST Impact:	1,443	0
Total Project Cost:	83,400	0

#### NOTES

Work includes; roof work, repair/replace walls, doors, staircase, new catering kitchen, mechanical, electrical, site works. Phase 1 has an approved budget of \$119,800 for a total project cost of \$203,200 (\$119,800 + \$83,400). Project payback is approximately 3 years. (\$203,200/\$66,000).

Cost Validation: Third party estimate

Requirement Validation: Visual inspection

Life Cycle amount requested is consistent with 2019 Life Cycle reserve study update. Project completion will allow the additional programs to begin in 2021.

SOURCE(S) OF FUNDING (	<u></u>		Compone	ents			E4
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	83,400	0	0	0	0	0	0
TOTAL FUNDING	83,400					0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$66,000	-\$66,000	

#### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 83,400
		Amount Incl HST 83,400
		Year in the study 2020
DCA and/or Life Cycle: Explain if there is	s a change in the year and/or cost:	



Page 313 of **489** 

\$332,100

Number	20004
Number:	<i>2</i> 0004

**Project Cost:** 

					F	Repair/Replac	e
Commission: Developme	ent Services			I	Jseful Life:		proval:
Department: Museum				Category:		110 / Ip	provur.
Project Mgr: Vicky Cha	n/Cathy Molloy			• •			
Ward(s): CW ✓ 1	2 3 4 4				Internal peer re		
5 🗆	□ 6□ 7□ 8□		Requireme	nt Validation:	Visual inspecti	on	
DETAILED DESCRIPTION		ROJECT):					
Building maintenance for se	elected buildings on				e of good repair		
BUILDING MARKHAM	'S FUTURE TOG	ETHER: Engage	ed, Diverse & '	Thriving City			
PROJECT COSTS (\$)	2020	Future Phases	NOTES \$166,100	Cidar Mill (ra	pair/replace wal	ls alactrical	norch fire
Cost/Quote:	316,530	0		llwork, doors)	pan/replace war	is, ciccurcai,	poren, me
Internal Charges:	10,000	0			rain Station (rep		alls, flooring,
External Consulting:	0	0			, roof accessorie re (repair/replac		ing nainting)
Sub Total:	326,530	0	\$20,700 -	Pest control for	entire site		
HST Impact:	5,571	0	Amount is	consistent with	2019 Life Cycl	e reserve stud	ly update.
<b>Total Project Cost:</b>	332,100	0					
SOURCE(S) OF FUNDING	G (\$)		Com	ponents			
Funding Type		Cider Mill	Train Statio		ntre Pest con	ntrol TOTAL	<u>Future</u>
runung Type	Budget	<u>Cider ivini</u>	Train State	п кесерион сен	itte rest con	101AL	<u>Phases</u>
Operating Funded Life Cycle	332,100	166,100	102,800	42,500	20,700	332,100	0
	332,100				=	332,100	0
TOTAL FUNDING							
	Pei	rsonnel Non Pe	rsonnel	Revenues	Expenditures	(Revenues)	
OPERATING BUDGET 1	IMPACT Per		rsonnel	Revenues \$0	Expenditures,	,	
OPERATING BUDGET I	IMPACT Per			\$0	\$0		
OPERATING BUDGET I DCA/LIFE CYCLE DETA DCA	IMPACT Per		0	\$0 Amount in	\$0	cle	
OPERATING BUDGET I	IMPACT Per	\$0 \$	0	\$0 Amount in	Life Cy  Amount i	cle in Study:	332,100
OPERATING BUDGET I DCA/LIFE CYCLE DETA DCA	IMPACT Per	\$0 \$	0	\$0 Amount in	\$0	cle in Study:	332,100 332,100
OPERATING BUDGET I DCA/LIFE CYCLE DETA DCA	IMPACT Per	\$0 \$	0	\$0 Amount in	Life Cy  Amount i	cle in Study:	
OPERATING BUDGET I DCA/LIFE CYCLE DETA DCA	IMPACT Per	\$0 \$\frac{\$}{2}\$	0 ar Amoun	\$0  Amount in Study	Life Cy  Amount i	cle in Study:	332,100
OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	IMPACT Per	\$0 \$\frac{\$}{2}\$	0 ar Amoun	\$0  Amount in Study	Life Cy  Amount i	cle in Study:	332,100
OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	IMPACT Per	\$0 \$\frac{\$}{2}\$	0 ar Amoun	\$0  Amount in Study	Life Cy  Amount i	cle in Study:	332,100
OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	IMPACT Per	\$0 \$\frac{\$}{2}\$	0 ar Amoun	\$0  Amount in Study	Life Cy  Amount i	cle in Study:	332,100
OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	IMPACT Per	\$0 \$\frac{\$}{2}\$	0 ar Amoun	\$0  Amount in Study	Life Cy  Amount i	cle in Study:	332,100
OPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA  Name	IMPACT Per	\$0 \$\frac{\$}{2}\$	0 ar Amoun	\$0  Amount in Study	Life Cy  Amount i	cle in Study:	332,100



Page 315 of <b>28</b>
20005

<b>Y</b> IARKH	AM T				,	520	Number	: 20	0005		
Project Name:	<i>1</i>	<b>-4</b>					<b>Project Cost:</b>	\$83,	500		
Project Name: N	/Iuseum Maii	ntenance					Repa	nir/Replace	e		
Commission: $\underline{\mathbf{D}}$	Development Se	ervices				١	Useful Life:	-	proval:		
Department: <u>M</u>						Category:		11011p	jio var.		
Project Mgr: C	Cathy Molloy					• •	Internal peer revie				
Ward(s): CV	N ✓ 1 □ 2 □	3 4 4					Visual inspection	w			
	5□ 6□	7 8			Requirem	icht vandation.	visual inspection				
ETAILED DES	CRIPTION (S	SCOPE OF P	ROJECT	):							
UILDING MAI		TURE TOGI	ETHER:  Future		Sustainable NOTES	·					
	(Quote:	82,100	ruture	0			ater heater (1990) ar				
Internal Cl	_	0		0	electrical (2005), counters (1865), pointing (2005), \$4,600 Mount						
External Cons	U	0		0			(2012). \$1,500-Site				
	Total:	82,100		0	\$41,600-Transport painting (2008), humidifiers (1987), auto door						
	mpact:	1,445		0	(2015) and repair (2010). Amount consistent with 2019 Life Cycl						
Total Project		83,500		0	reserve s	udy update					
OURCE(S) OF I	FUNDING (\$	<u> </u>			Coi	nponents			E-4		
ınding Type		Budget					1	TOTAL	<u>Future</u> <u>Phases</u>		
perating Funded Li	ife Cycle	83,500		0	0	0	0	0	(		
TOTAL FUND	ING	83,500					<u> </u>	0			
PERATING BU	UDGET IMPA	ACT Per	rsonnel \$0		ersonnel 60	Revenues \$0	Expenditures/(Re	evenues)			
OCA/LIFE CYC	LE DETAILS										
DCA											



Page 317 of **26**Number: **20006** 

Project Name: Theatre-Building Maintenance		Project C	Cost:	\$42,200
Commission: Development Services	<del></del>		Repa	nir/Replace
Department: Theatre	Cotogory	Useful Life:	0	Pre Approval:
Project Mgr: Andrew Rosenfarb	Category	. Willor		
Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □	Cost Validation	n: Third party estimate		
5 G G 7 8 B	Requirement Validation	: Condition assessment		
DETAILED DESCRIPTION (SCOPE OF PROJE	ECT):			
Replacement of damaged lobby drywall, 4 public was itchen & costume room cabinetry.	shroom doors, balcony sound absorption	panels and the	e re-fac	sing of the café, bar,
BUILDING MARKHAM'S FUTURE TOGETHE	ER: Exceptional Services by Exceptional	People		
PROJECT COSTS (\$) 2020 Fut	ure Phases   NOTES   \$15,300- Sections of the	lobby drywall	l are da	maged/cracking
Cost/Quote: 41,500	o requiring replacement (1		i aic da	anaged, cracking
Internal Charges:	\$10,500- Cabinet re-faci	ing for bar, cafe	é, kitch	nen and costume room

SOURCE(S) OF FUNDING	(\$)	Components	— Future
Total Project Cost:	42,200	study update.	Cycle reserve
HST Impact:	730	\$6,100- Replacement of 4 lobby washroom doors ( Amount requested is consistent with the 2019 Life	
Sub Total:	41,500	orchestra panels (2000)	(2000)
External Consulting:	0	\$10,300- Balcony sound absorption panels replace	ment to match
Internal Charges:	0	(2000) \$10,500- Cabinet re-facing for bar, café, kitchen and	nd costume room

SOURCE(S) OF FUNDING (\$)		Components						
Funding Type	<u>Budget</u>	<u>Drywall</u>	Cabinets	Doors/Sound Panels		TOTAL	<u>Future</u> <u>Phases</u>	
Operating Funded Life Cycle	42,200	15,300	10,500	16,400	0	42,200	0	
TOTAL FUNDING	42,200				=	42,200	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OI EKATING BEDGET IMI ACT	\$0	\$0	\$0	\$0	

#### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>			Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	1,100,900
				Amount Incl HST	42,200
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

2019 life cycle includes HVAC Quantity Survey (\$10k), Theatrical Lighting Fixture Replacement (\$195k), Building Maint. (\$42k), Dressing Room Refurbishment (\$291k), Courtyard Replacement (\$224k), Parking Lot Swing Gates (\$15k), Stage Equipment & Maint. (\$20k). Amount available in 2020 life cycle is \$1,101k. Amount requested is \$797k. Difference is primarily due to the deferral of the auditorium interior painting & LED house light conversion (\$251k) and other components based on assessment.



Page 319 of

\$223,900

20007 **Number:** 

Project Name: Theothe Countried Depleasment (Unner	· P- T overaw)			<del></del>
Project Name: Theatre-Courtyard Replacement (Upper	a Lower)		Repa	air/Replace
Commission: Development Services	Ţ	Jseful Life:	25	Pre Approval:
Department: Theatre			20	11011pp10 val.
Project Mgr: Andrew Rosenfarb	Category:			
Ward(s): $CW                                   $	Cost Validation: Requirement Validation:	Third party estimate		
5 6 7 8		Condition a	issessm	ent
DETAILED DESCRIPTION (SCOPE OF PROJECT):				
Remove interlock brick from the theatre's main entrance and 2 co	•	the Theatre a	nd Unio	onville High School

Safe & Sustainable Community **BUILDING MARKHAM'S FUTURE TOGETHER:** 

PROJECT COSTS (\$)	<u>2020</u>	Future Phases
Cost/Quote:	200,000	0
Internal Charges:	0	0
External Consulting:	20,000	0
Sub Total:	220,000	0
HST Impact:	3,872	0
Total Project Cost:	223,900	0

This project aims to make the courtyard areas on City owned property more usable & attractive for events and most importantly to fix issues such as unlevelled ground, water drainage issues, missing stones and open ground where trees have been removed. Work would take place in the summer months to have minimal impact on programs. Amount requested is consistent with the 2019 Life Cycle reserve study update. The pre-approval request of \$20,000 is for consulting work only.

**Project Cost:** 

SOURCE(S) OF FUNDING	<u>(\$)</u>	Components					
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	223,900	0	0	0	0	0	0
TOTAL FUNDING	223,900				<u> </u>	0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OPERATING BUDGET IMPACT	\$0	\$0	\$0	\$0	

#### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>	<b>V</b>		Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	1,100,900
				Amount Incl HST	223,900
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

2019 life cycle includes HVAC Quantity Survey (\$10k), Theatrical Lighting Fixture Replacement (\$195k), Building Maint. (\$42k), Dressing Room Refurbishment (\$291k), Courtyard Replacement (\$224k), Parking Lot Swing Gates (\$15k), Stage Equipment & Maint. (\$20k). Amount available in 2020 life cycle is \$1,101k. Amount requested is \$797k. Difference is primarily due to the deferral of the auditorium interior painting & LED house light conversion (\$251k) and other components based on assessment.



Page 321 of **237** 

20008 **Number:** 

Droinat Nama: The 4 I		D - 6l : -l	4			Project (	Cost:	\$290	,700
Project Name: Theatre-I		Keturbishi	nent				Repair/	Replace	<b>?</b>
Commission: Developme	nt Services				Ţ	Jseful Life:	10	Pre Apr	proval:
Department: Theatre					Category:	Major		11	
Project Mgr: Andrew Ro				Cos	t Validation:		er review		
	2		I		Validation:				
	6 7 8			1				-	
DETAILED DESCRIPTION				C CI		1			1 1:
Redesign & refurbishment of fixtures, toilets, partitions, m									lumbing
paramons, re	, •	anie raens, p	, g	a repraeeme	01		8u. 22	2.	
			E	-1 Ci h	. F	D1-			
BUILDING MARKHAM'	S FUTURE TOG	ETHER:	Exception	ai Services by	Exceptional I	People			
PROJECT COSTS (\$)	2020	Future P	nacec	<u>NOTES</u>					
Cost/Quote:	245,700	<u>r uture r</u>			hed over 12 ; r age and sev				
Internal Charges:	0		-    -		ms are used				
External Consulting:	40,000		0	around the w	orld and mea	mbers of our	communi	ty. For	some, these
Sub Total:			r		e of the only Aarkham. Tl				
HST Impact:	285,700 5,028		0 8	spaces to bet	ter serve our	clients and o	community	y. Amo	unt
Total Project Cost:	290,700	-	c		th the 2019 1				
=	270,700			approvai req	uest of \$40,0	100 is for con	isulting we	огк ошу	·-
SOURCE(S) OF FUNDING	<u>G (\$)</u>			Compo	onents				Entono
Funding Type	<b>Budget</b>						<u>TO</u>	TAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	290,700		0	0	0	(	)	0	0
TOTAL FUNDING	290,700							0	0
1011111111									
	Pe	rsonnel	Non Perso	onnel R	evenues	Expenditu	res/(Reve	enues)	
OPERATING BUDGET I	<u>WIPACI</u>	\$0	\$0		\$0		\$0		
DCA/LIFE CYCLE DETA	ILS								
<u>DCA</u>					Amount in	<u>Life</u>	Cycle		
Name			Year	Amount	Study	– Amou	ınt in Stud	ly: 1	,100,900
						Amou	int Incl HS		290,700
						Year	in the stu	dv	2020
DCA and/or Life Cycle		a a ahanga ir	n the vear a	ınd/or cost·					
Deri und of Elic Cycle	· Explain if there is								
2019 life cycle includes	Explain if there is				Fixture Renla	acement (\$19	)5k) Build	dino Ma	int
2019 life cycle includes (\$42k), Dressing Room	HVAC Quantity S Refurbishment (\$2	urvey (\$10k 291k), Court	t), Theatric yard Repla	cal Lighting lacement (\$22	4k), Parking	Lot Swing C	Gates (\$15	k), Stag	ge
(\$42k), Dressing Room Equipment & Maint. (\$2	HVAC Quantity S Refurbishment (\$2 20k). Amount avail	Survey (\$10k 291k), Court lable in 2020	t), Theatric yard Repla ) life cycle	cal Lighting lacement (\$22 is \$1,101k.	4k), Parking Amount req	Lot Swing Ouested is \$79	Gates (\$15 7k. Diffe	k), Stag erence is	ge s primarily
(\$42k), Dressing Room	HVAC Quantity S Refurbishment (\$2 20k). Amount avail	Survey (\$10k 291k), Court lable in 2020	t), Theatric yard Repla ) life cycle	cal Lighting lacement (\$22 is \$1,101k.	4k), Parking Amount req	Lot Swing Ouested is \$79	Gates (\$15 7k. Diffe	k), Stag erence is	ge s primarily
(\$42k), Dressing Room Equipment & Maint. (\$2 due to the deferral of the	HVAC Quantity S Refurbishment (\$2 20k). Amount avail	Survey (\$10k 291k), Court lable in 2020	t), Theatric yard Repla ) life cycle	cal Lighting lacement (\$22 is \$1,101k.	4k), Parking Amount req	Lot Swing Ouested is \$79	Gates (\$15 7k. Diffe	k), Stag erence is	ge s primarily



Page 323 of **25** 

**Number:** 20010

Project Name: Theatre-1	Parking I at Swi	ng Cates			Project (	Cost:	\$15,	300
		ug Gales				New	Asset/Ex	pansion
Commission: Developme	ent Services			Ţ	Jseful Life:	10	Pre Ap	proval:
Department: Theatre	a conforb			Category:	Minor			
Project Mgr: Andrew Ro			Co	st Validation:	Third party	estimat	æ	
Ward(s): $CW                                   $				: Condition assessment				
			-					
petailed description arking swing gates at the 4 with Civic Centre and school have access to reserved personal description of the personal des	theatre parking lot ol operating times. arking.	entrances to effect With very limited		ledicated to th	_			
			NOTES					
PROJECT COSTS (\$)	<u>2020</u>	Future Phases	The theatre	produces nun				
Cost/Quote:	15,000	0		parking lot ne				
Internal Charges:	0	0		d off from City t will allow th				
External Consulting:	0	0	when neede	ed. Existing p	arking gates	were pu	rchased in	n 2005.
Sub Total:	15,000	0		quested is cons	sistent with th	ne 2019	Life Cyc	le reserve
HST Impact:	264	0	study upda	e.				
Total Project Cost:	15,300	0						
OURCE(S) OF FUNDING	G (\$)		Com	onents				<b>.</b>
	<u>σ (ψ)</u>							
	Budget		•			1	OTAL	<u>Future</u> <u>Phases</u>
unding Type perating Funded Life Cycle		0	0	0	(	<u>1</u>	<b>OTAL</b> 0	
unding Type	Budget	0	-		(			Phases 0
unding Type  perating Funded Life Cycle  TOTAL FUNDING	15,300 15,300		0	0		)	0	Phases 0
unding Type perating Funded Life Cycle	15,300 15,300	rsonnel Non I	0 Personnel	0 Revenues	Expenditu	res/(Re	0	Phases 0
unding Type perating Funded Life Cycle TOTAL FUNDING  DPERATING BUDGET 1	15,300 15,300 Pe		0	0		)	0	Phases
unding Type perating Funded Life Cycle TOTAL FUNDING  DPERATING BUDGET 1	15,300 15,300 Pe	rsonnel Non I	0 Personnel	0 Revenues	Expenditu	res/(Re	0	Phases 0
unding Type  perating Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET I	15,300 15,300 Pe	rsonnel Non I \$0	0 Personnel	0 Revenues \$0 Amount in	Expenditu <u>Life</u>	res/(Re \$0	0 0 venues)	Phases           0           0
unding Type  perating Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA	15,300 15,300 Pe	rsonnel Non I \$0	0 Personnel 1 \$0	0 Revenues \$0 Amount in	Expenditu  Life  — Amou	res/(Re \$0  Cycle  ant in St	0 0 venues)	Phases 0 0 1 0 1 100,900
unding Type  perating Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA	15,300 15,300 Pe	rsonnel Non I \$0	0 Personnel 1 \$0	0 Revenues \$0 Amount in	Expenditu  Life  — Amou	res/(Re \$0 Cycle ant in St	venues)  udy: 1 HST	,100,900 15,300
unding Type  perating Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA	Budget   15,300     15,300     Pe	rsonnel Non I \$0 Y	O Personnel 1 \$0  Year Amount	Revenues \$0  Amount in Study	Expenditu  Life  — Amou	res/(Re \$0  Cycle  ant in St	venues)  udy: 1 HST	Phases 0 0 0 1,100,900



Page 325 of **38**Number: **20011** 

W WWW IV W					<b>Project Cost:</b>	\$20.	,000
Project Name: Theatre-S	tage Equipmen	t & Maintenance	2		Repa	air/Replac	е
Commission: Developmen	nt Services			ŢI	seful Life:		proval:
Department: Theatre				Category:		тте др	provar. —
Project Mgr: Andrew Ros	senfarb		Co		Third party estima		
Ward(s): $CW \boxed{\bullet} 1 \square$	2 🗆 3 🗆 4 🗆			=	Condition assessm		
5 🗆	6 7 8		Requiremen	it vandation.	Condition assessing		
DETAILED DESCRIPTIO							
Replacement of 1 fogger used inspection for motorized equi	ipment above the s	stage, revoicing of o		piano and insta	ıllation of humidifie		
BUILDING MARKHAM'S	S FUTURE TOG.	ETHER: Except	ional Services o	y Exceptional F	eopie		
PROJECT COSTS (\$)	<u>2020</u>	Future Phases	NOTES \$5,200- Fog	(2012)			
Cost/Quote:	19,700	0			t humidifier (2015)	,	
Internal Charges:	0	0	\$2,500- Rig	ging safety ins	spections (annual)		
External Consulting:	0	0		alier microphonting of stage	one capsules (2011) walls (2005)	)	
Sub Total:	19,700	0	Amount req	uested is cons	istent with the 2019	Life Cyc	le reserve
HST Impact:	347	0	study update	e.			
Total Project Cost:	20,000	0					
SOURCE(S) OF FUNDING	<del>G (\$)</del>		Comp	onents			
Funding Type	Budget				]	<u> FOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	20,000	0	0	0	0	0	0
TOTAL FUNDING	20,000					0	0
OPERATING BUDGET IN	MPACT Pe	rsonnel Non Po	ersonnel R	Revenues	Expenditures/(Re	evenues)	
		\$0	50	\$0	\$0		
DCA/LIFE CYCLE DETA	ILS						
<u>DCA</u> Name		Ye	ar Amount	Amount in Study	<u>Life Cycle</u>		
Name		10	ar mount	Study	<ul><li>Amount in S</li></ul>	tudy: 1	,100,900
					Amount Incl	HST	20,000
					Year in the	study	2020
DCA and/or Life Cycle:	Explain if there is	a change in the ye	ar and/or cost:				
2019 life cycle includes (\$42k), Dressing Room I Equipment & Maint. (\$2 due to the deferral of the assessment.	Refurbishment (\$2 0k). Amount avail	91k), Courtyard Reable in 2020 life cy	eplacement (\$2 cle is \$1,101k	24k), Parking Amount requ	Lot Swing Gates (\$ uested is \$797k. Di	\$15k), Stag ifference i	ge s primarily



20012

MAKKHAM				Ni	umber:	20012
Project Name: Theatro	e-Theatrical Ligh	ting Fixture Replac	ement	Project (	Cost:	\$195,400
					Repair	r/Replace
Commission: Develop	ment Services		1	Useful Life:	8	Pre Approval:
Department: Theatre			Category:	Minor		11
Project Mgr: Andrew	Rosenfarb					
Ward(s): CW ✓ 1	.□ 2□ 3□ 4□		Cost Validation:	Third party	estimate	<del></del>
	i□ 6□ 7□ 8□		Requirement Validation:	Condition a	ssessmei	nt
DETAILED DESCRIPT		PROJECT).				
BUILDING MARKHA			ighting fixtures that are d	-		
PROJECT COSTS (\$)	2020	Future Phases	NOTES \$40,000- Replacement of	f 50 gonyantia	anal ligh	ting fixtures no
Cost/Quote:	192,000	0	longer supported by man		_	0
Internal Charges:	0	0	discontinued and cannot	be sourced el	sewhere	(2008)
External Consulting:		0	\$152,000- Replacement (computerized, brighter a	_		-
Sub Total:	192,000	0	maintenance issues, cost			
LICT Inches	2 270		technology advances in n	new fixtures a	vailable	(2012).

SOURCE(S) OF FUNDING (\$)		Components							
Funding Type	<b>Budget</b>	<u>Lighting fixtures</u>	Moving lights			<b>TOTAL</b>	<u>Future</u> <u>Phases</u>		
Operating Funded Life Cycle	195,400	40,700	154,700	0	0	195,400	0		
TOTAL FUNDING	195,400				=	195,400	0		

study update.

0

Amount requested is consistent with the 2019 Life Cycle reserve

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

### **DCA/LIFE CYCLE DETAILS**

**HST Impact:** 

**Total Project Cost:** 

<u>DCA</u>		Amount in	<u>Life Cycle</u>
Name	Year A	Amount Study	Amount in Study: 1,100,900
			Amount Incl HST 195,400
			Year in the study 2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

3,379

195,400

2019 life cycle includes HVAC Quantity Survey (\$10k), Theatrical Lighting Fixture Replacement (\$195k), Building Maint. (\$42k), Dressing Room Refurbishment (\$291k), Courtyard Replacement (\$224k), Parking Lot Swing Gates (\$15k), Stage Equipment & Maint. (\$20k). Amount available in 2020 life cycle is \$1,101k. Amount requested is \$797k. Difference is primarily due to the deferral of the auditorium interior painting & LED house light conversion (\$251k) and other components based on assessment.



Page 329 of **33** 

Pre Approval:

	2020 DDA IECT EUNIDING DEAUEST E	$\Omega DM$	-		
MARKH	AM 2020 PROJECT FUNDING REQUEST FO	OKM	Number:	20013	
Project Name	Exhibition Galleries & Programs Maintenance	Proje	ect Cost:	\$41,700	
-	Development Services		Repair/	Replace	
Commission.	Development Services				

Department: Arts Centres Category: Minor Project Mgr: Niamh O'Laoghaire

Cost Validation: Internal peer review Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □

Requirement Validation: Condition assessment 

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

Maintenance work to ensure that the galleries can host important contemporary multimedia exhibitions reflective of the City's mandate and ethos as the high tech capital of Canada. Ensure Program furniture and equipment attracts continued registration in Varley programs.

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	41,000	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	41,000	0
HST Impact:	722	0
Total Project Cost:	41,700	0

\$5,000- Moving electrical outlets & wiring to walls of the Main & Intro. Galleries (1997). \$6,000- Replace activity rooms lighting with track lights (& bulbs) (2011). \$15,000-4 high-end projectors (\$3,500 each) & 4 projector cages (\$250 each) to support programs. \$2,500- Replace 12 activity tables (2000). \$2,500- 100 programs chairs (1996). \$2,500- Table & chair caddies (1996). \$1,000- Portable stools (1996). \$1,000- Electrician. \$6,000- Sound consultant & sound system (2007). Amount is consistent with 2019 Life Cycle Reserve Study update.

Useful Life:

SOURCE(S) OF FUNDING (	<u> </u>		Compone	ents			Eutung
Funding Type	<b>Budget</b>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	41,700	0	0	0	0	0	0
TOTAL FUNDING	41,700				_	0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>			Amount in	<u>Life Cycle</u>
Name	Year	Amount	Study	- Amount in Study: 183,000
				Amount Incl HST 41,700
				Year in the study 2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

Remaining components in Life Cycle are for HVAC and mechanical work which were inspected and deemed to be in good or fair condition.



Page 331 of

<u> Yiarkham</u>				N	umber	: 20014
Project Name: McKa	y Accessibility Co	nsultant		Project		\$15,000
					Studi	ies/Pilot Programs
Commission: Develop			J	Jseful Life:	20	Pre Approval:
Department: Arts Ce			Category:	Minor		
Project Mgr: Niamh	O'Laoghaire					
Ward(s): CW ✓	1□ 2□ 3□ 4□		Cost Validation:			
	5 🗆 6 🗆 7 🗆 8 🗆		Requirement Validation:	Other(spec	ify in No	otes)
Commission a report on ouse to make more acce	essible and expand pr	ogramming opportun	to improve accessibility bolities.		l outside	an 1850s heritage
PROJECT COSTS (\$)	2020	Future Phases	NOTES The McKay Art Centre is	only access	ible on i	its ground floor. The
Cost/Quote	: 0	0	basement, site of many ac	•		<u> </u>
Internal Charges	: 0	0	floor. One part of the gard			
External Consulting		0	etc.) is only accessible on to the accessibility washro	oom. We red	quire a c	ertified Accessibility
Sub Total	: 14,700	0	for Ontarians with Disabi			
HST Impact	. 250		the building and grounds	in detail and	l report (	on accessibility

SOURCE(S) OF FUNDING (	<u></u>		Compone	ents			TD 4
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	15,000	0	0	0	0	0	0
TOTAL FUNDING	15,000				=	0	0

options: \$15,000. Future phases of the project will be determined

based on the findings of the consultant.

0

0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$0	\$0	\$0

### **DCA/LIFE CYCLE DETAILS**

**HST Impact:** 

**Total Project Cost:** 

<u>DCA</u>	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 262,400
		Amount Incl HST 15,000
		Year in the study 2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

259

15,000

Remaining components in Life Cycle are for interior and exterior mechanical work which were inspected and deemed to be in good condition and not require replacing in 2020.



Page 333 of **39**Number: 20015

			Project C	ost:	\$521,200	
Project Name:	Consolidated Zoning By-law - LPAT Defer	nse and Refinement	110jeet e	, OSC.	φ321,200	
				Studie	es/Pilot Programs	
Commission:	Development Services		Useful Life:	0	Pre Approval:	
Department:	Planning			Ü	rio rippro var.	
Project Mgr:	Brad Roberts	Category				
Ward(s):	CW ✓ 1□ 2□ 3□ 4□	Cost Validation	: Recent awar	rds		
	5 6 7 8	Requirement Validation	: Legislative of	complia	nce	

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

Defense of the New Consolidation Zoning By-law (Multi Year Project 2014-2019) at the Local Planning Appeal Tribunal (LPAT), and any housekeeping amendments required as a result of LPAT decisions. New Consolidated Zoning By-law is being developed to comply with Official Plan.

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Engaged, Diverse & Thriving City

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	0	0
Internal Charges:	165,000	165,000
External Consulting:	350,000	350,000
Sub Total:	515,000	515,000
HST Impact:	6,160	6,160
<b>Total Project Cost:</b>	521,200	521,200

### NOTES

Defense of the approved new Comprehensive Zoning By-law at LPAT. New By-law anticipated to be adopted by City Council by the end of 2019. Appeal Period to begin in 2020 and may go into 2021 to resolve. As well, staff resources will be required to implement any required refinements to the by-law, Official Plan and any licensing or other by-laws, as a result of adoption. External consulting is 700 hrs. of legal services at \$500/hour (based on Legal Dept. estimate). Internal charges are for staff dedicated to the defense.

SOURCE(S) OF FUNDING	(\$)		Compone	ents			E-4
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Building Fees	416,960	0	0	0	0	0	416,960
Development Fees	104,240	0	0	0	0	0	104,240
TOTAL FUNDING	521,200				=	0	521,200

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OT DAMES IN TO BE DESCRIPTION OF THE PROPERTY	\$0	\$0	\$0	\$0	

	mount	Study	Amount in Study:  Amount Incl HST  Year in the study	
ar and/oi	or cost:			





# Consolidated Zoning By-law (Phase 4) – LPAT Defense and Refinement

2020 Budget Request: \$521,200





# **Preparation for Phase 4**

- Consolidation of 42 by-laws into one consistent by-law will alter the property rights for many land owners
- Staff are working to develop a by-law that implements the City's Official Plan, while respecting existing property rights
- While it is the goal of Staff to limit their number, it is unlikely that a Bylaw project of this scale will avoid appeals entirely.





# Why does Markham need to undertake comprehensive review of existing zoning framework?



New Markham Official Plan – approved by the Region June 2014



**S.** 26 (9) - municipalities required to review & update zoning by-law(s) to conform with new OP no later than 3 years after new OP comes into effect





# **Project Phases**

- The Comprehensive Zoning By-law project, initiated in late 2013, is a phased, multi-year project, divided into the following phases:
- Phase 1: Zoning Issues Analysis (completed March 2016)
- Phase 2: Strategic Direction (completed June 2016)
- Phase 3:
  - A: Review of potential Official Plan, zoning and licensing regulations for rooming houses, second suites and short-term rental accommodations (completed May 2018)
  - B: Drafting of New Comprehensive Zoning By-law (ongoing)
- Phase 4: Potential LPAT Appeals



Page 339 of **25** 

MARKHAM	2020 PROJ	ECT FUNDING	G REQUEST F	ORM Number	:: 20	0016
Project Name: Consulta	nt Studies			<b>Project Cost:</b>	\$92,	000
				Stud	ies/Pilot F	Programs
Commission: Developm	ent Services			Useful Life:	Pre Ap	proval: $\square$
Department: <u>Planning</u> Project Mgr: Biju Karun	manchery	<u> </u>	Category	: Minor		
· · ·			Cost Validation	n: Recent awards		
	6 7 8	F	Requirement Validation	Other(specify in N	otes)	
DETAILED DESCRIPTION This recurring account allow year where specialized constitutions BUILDING MARKHAM	ws staff to respond t sultant services are r	o growth related strate needed.	gic opportunities and u	nplanned needs that a	rise throu	ghout the
PROJECT COSTS (\$)			NOTES			
	<u>2020</u>		This account is intended			
Cost/Quote:	0	6	needs and strategic opposed (2017-2019) is \$9			
Internal Charges: External Consulting:	0 92,000	· ·	697,000.		(= - 5)	-, -, -,
Sub Total: HST Impact:	92,000	0 0				
Total Project Cost:	92,000	<u>0</u>				
SOURCE(S) OF FUNDIN	<u>[G (\$)</u>		Components			Future
Funding Type	<b>Budget</b>			]	<u>rotal</u>	<u>Phases</u>
DCA	82,800	0	0 0	0	0	0
Development Fees	9,200	0	0 0	0	0	0
TOTAL FUNDING	92,000				0	0
OPERATING BUDGET	IMPACT Per	rsonnel Non Perso	nnel Revenues	Expenditures/(Re	evenues)	
		\$0 \$0	\$0	\$0		
DCA/LIFE CYCLE DET. DCA	<u>AILS</u>			T.0 C -		
<u>DCA</u> Name		Year	Amount in Amount in	<u>Life Cycle</u>		
General Government - V	arious Studies	2020		$\frac{1}{0.063}$ Amount in S	tudy:	
TOTAL FUNDING			82,800 1,593		HST	
				Year in the s	study	

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page	341	of	47

\$30,000

DING REQUEST FORM	Number:	20017	Ī

**Project Cost:** 

Designate	d Heritage Prop	erty Grant Prog	ram			
			<del>,</del>	S	Studies/Pilot P	rograms
•	nt Services			Useful Life:	Pre App	oroval: $\square$
	1		Category	: Major		
<u>-</u>						
				-		
5 🗌	6□ 7□ 8□		Troquitonion   unounton		11 ( 0 0 0 5 )	
		· · · · · · · · · · · · · · · · · · ·				
\$5,000/pro	perty for restoratio	n work on designat	ed properties.	20 and onwards v	orant assistan	ce (30/30)
STS (\$)	2020	Futuro Dhosos	NOTES			
_						
_			per year. A report and b	y-law will be bro	ught forward	by the end
_	<del></del>				due to 2 year	imeline
			granted to property own	<b></b>		
ci Cosi: =	30,000	0				
FUNDING	<u>G (\$)</u>		Components			T4
	Budget				<b>TOTAL</b>	Future Phases
	20.000	0	0 0	0	0	0
	30,000	· ·				
DING	30,000	v		- =	0	0
	30,000		ersonnel Revenues	Expenditures.		0
DING BUDGET II	30,000	rsonnel Non Pe	ersonnel Revenues	Expenditures/	(Revenues)	0
BUDGET II		rsonnel Non Pe	ersonnel Revenues 50 \$0	Expenditures,	(Revenues)	0
		rsonnel Non Pe	50 \$0	\$0	(Revenues)	0
BUDGET II		rsonnel Non Pe	Amount in	\$0 Life Cy	(Revenues)	0
BUDGET II		rsonnel Non Pe	Amount in	\$0  Life Cy  Amount i	(Revenues)  cle in Study:	0
BUDGET II		rsonnel Non Pe	Amount in	Life Cy Amount i	(Revenues)  cle in Study:	0
BUDGET II		rsonnel Non Pe	Amount in	\$0  Life Cy  Amount i	(Revenues)  cle in Study:	0
BUDGET II		rsonnel Non Pe	Amount in Study	Life Cy Amount i	(Revenues)  cle in Study:	0
BUDGET II		rsonnel Non Pe	Amount in Study	Life Cy Amount i	(Revenues)  cle in Study:	0
BUDGET II		rsonnel Non Pe	Amount in Study	Life Cy Amount i	(Revenues)  cle in Study:	
BUDGET II		rsonnel Non Pe	Amount in Study	Life Cy Amount i	(Revenues)  cle in Study:	
BUDGET II		rsonnel Non Pe	Amount in Study	Life Cy Amount i	(Revenues)  cle in Study:	
BUDGET II		rsonnel Non Pe	Amount in Study	Life Cy Amount i	(Revenues)  cle in Study:	
	Planning Regan Hutco Regan Hutco Tow 1	Regan Hutcheson         CW	Planning           Regan Hutcheson           CW ✓ 1 □ 2 □ 3 □ 4 □           5 □ 6 □ 7 □ 8 □           SCRIPTION (SCOPE OF PROJECT):           Program-Council would have to approve an extent of \$5,000/property for restoration work on designate           ARKHAM'S FUTURE TOGETHER:         Engage           ETS (\$)         2020         Future Phases           t/Quote:         30,000         0           Charges:         0         0           nsulting:         0         0           Impact:         0         0           ct Cost:         30,000         0           CFUNDING (\$)         0	Planning Regan Hutcheson  CW	Development Services  Planning  Regan Hutcheson  Cost Validation:  Requirement Validation:  SCRIPTION (SCOPE OF PROJECT):  Program- Council would have to approve an extension of the program for 2020 and onwards of \$\frac{1}{2}\$	Development Services   Planning   Regan Hutcheson   Cost Validation:   Recent awards   Other(specify in Notes)



Page 343 of **49** 

Project Name:	Project Name: Heritage Façade Improvements/Sign Replacement    Commission:   Development Services   Department:   Planning   Useful Life:   Pre Agroup   Project Mgr:   Regan Hutcheson   Requirement Validation:   Recent awards   Other(specify in Notes)   Project Mgr:   Regan Hutcheson   Requirement Validation:   Recent awards   Other(specify in Notes)   Requirement Validation:   Recent awards   Requirement Validation:   Recent awards   Other(specify in Notes)   Regan Hutcheson   Requirement Validation:   Recent awards   Recent awards   Requirement Validation:   Recent awards   Requirement Validation:   Recent awards   Requirement Validation:   Recent awards   Recent awards   Recent awards   Revenue   Recent awards   Recent aw	018		JIVI	202210	TIDING KE	ECITO	2020 PROJ	<b>V</b> ARKHAM
Studies/Pilot Programs   Studies Programs   Studies Programs   Studies Programs   Studies Programs   Studies Programs   Studies Programs   Studi	Studies/Pilot   Commission:   Development Services   Department:   Planning   Useful Life:   Pre Appropriate   Project Mgr:   Regan Hutcheson   Requirement Validation:   Recent awards   Requirement Validation:   Studies/Pilot   Recent awards   Requirement Validation:   Studies/Pilot   Recent awards   Other(specify in Notes)	000	Project Cost: \$20,0	Pro		n .	, 100		<del></del> 02
Commission: Development Services   Useful Life:   Pre Approval:	Department: Planning Project Mgr: Regarl Hutcheson Ward(s): Qw	rograms	Studies/Pilot Pr			n Replacement	ements/Sig	açade Improve	roject Name: Heritage I
Department: Planning	Department: Planning Project Mgr: Regan Hutcheson Ward(s): CW			Heaful l	ī			t Services	Commission: Developmen
Ward(s):	Ward(s): CW 2 1 2 3 4 Cost Validation: Requirement Validation: Score of Tollow Science of Tollow Science of Tollow Science of Tollow Science of	лочаі. —							Department: Planning
Requirement Validation:    Components   Comp	Requirement Validation:    Cother(specify in Notes)   Cother(specify in Notes)							neson	Project Mgr: Regan Hutc
TAILED DESCRIPTION (SCOPE OF PROJECT):  nual grants to commercial property owners in heritage areas to make improvements to facades. Matching grant of up to \$10,000 for heritage and up to \$15,000 for heritage buildings. Approval will allow City to continue with the program, as approved by Council property owners in heritage areas to make improvements to facades. Matching grant of up to \$10,000 for heritage and up to \$15,000 for heritage buildings. Approval will allow City to continue with the program, as approved by Council property of the program of the program of the program, as approved by Council District COSTS (\$)	TAILED DESCRIPTION (SCOPE OF PROJECT):  mual grants to commercial property owners in heritage areas to make improvements to facades. Matching grant of up to \$ n-heritage and up to \$15,000 for heritage buildings. Approval will allow City to continue with the program, as approved  UILDING MARKHAM'S FUTURE TOGETHER:  Safe & Sustainable Community  ROJECT COSTS (\$) 2020 Future Phases  Cost/Quote: 20,000 0 0  Internal Charges: 0 0 0  External Consulting: 0 0 0  Sub Total: 20,000 0 0  HST Impact: 0 0 0 0  Total Project Cost: 20,000 0 0  UIRCE(S) OF FUNDING (\$) Components  UIRCE(S) OF FUNDING (\$) Components  Diagrams It is recommended that for 2020, the amount be based on 3 yr. average (2017-2019).  URCE(S) OF FUNDING (\$) Components  DOTAL FUNDING 20,000 0 0 0 0 0 0 0 0  PERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues)  \$ S0 \$ S				<del>-</del>			2 🗆 3 🗆 4 🗆	Ward(s): $CW \boxed{\bullet} 1 \square$
Mula grants to commercial property owners in heritage areas to make improvements to facades. Matching grant of up to \$10,000 for heritage and up to \$15,000 for heritage buildings. Approval will allow City to continue with the program, as approved by Council approved by Council and the program of up to \$10,000 for heritage and up to \$15,000 for heritage buildings. Approval will allow City to continue with the program, as approved by Council approved by Council approved by Council approved by Council Council approved Support of the past of \$10,000 for 2015 and \$10,000 for 2015 and \$15,000 f	Inual grants to commercial property owners in heritage areas to make improvements to facades. Matching grant of up to \$15,000 for heritage buildings. Approval will allow City to continue with the program, as approved will allow City to continue with the program approved will allow City to continue with the program approved will allow City to continue with the program approved will allow City to continue with the progra		itner(specify in Notes)	: Otner	ment validation:	Require		6 7 8	5 🗆
n-heritage and up to \$15,000 for heritage buildings. Approval will allow City to continue with the program, as approved by Councilland Community    Continue   Contin	ILIDING MARKHAM'S FUTURE TOGETHER:  Safe & Sustainable Community    Solution   Sub Total:   20,000						ROJECT):	N (SCOPE OF P	ETAILED DESCRIPTIO
Requirements are based on the typical number of applications received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in received over the past 3 years. Original allocation was \$50,000 in the reduced to \$30,000 in recent years and to \$15,000 for 2015 reflect demand. However in 2019 Council approved \$19,000 or	Cost/Quote: 20,000	y Counci	the program, as approved b	with the	•				
Cost/Quote: 20,000	Cost/Quote: 20,000   0     Requirements are based on the typical number of appli received over the past 3 years. Original allocation was then reduced to \$30,000 in recent years and to \$15,000 reflect demand. However in 2019 Council approved \$ grants. It is recommended that for 2020, the amount be based on 3 yr. average (2017-2019).    Components					13666	Future P	2020	ROJECT COSTS (\$)
Internal Charges: 0	Internal Charges: 0 0 0 0					Require	I would I		
External Consulting:	External Consulting: 0 0 0 Ireflect demand. However in 2019 Council approved \$\frac{1}{20,000}\$ Sub Total: 20,000 0 0 Sub Total Project Cost: 20,000 Sub					than rad			_
Sub Total:   20,000	Sub Total:   20,000   0   based on 3 yr. average (2017-2019).					reflect o		-	<del>-</del>
HST Impact:   0   0   0   0	HST Impact:   0   0   0	\$20,000				1 1	-		Sub Total:
Total Project Cost:   20,000	Total Project Cost:   20,000   0		,		, ,	<u> </u>			_
PERATING BUDGET IMPACT  SO  SO  SO  SO  SO  SO  SO  SO  SO  S	Non Personnel   Sudit   Superside   Supe					0		20,000	-
Personnel Non Personnel Revenues Expenditures/(Revenues) SOLALIFE CYCLE DETAILS  DCA Name  Year Amount in Study: Amount Incl HST Year in the study  TOTAL  Future Phase  TOTAL  Future Phase  TOTAL  Future Phase  TOTAL  Amount in Study: Amount Incl HST Year in the study	Non Personnel   Suding Type   Budget   TOTAL				mponents	Co		(\$)	URCE(S) OF FUNDING
PERATING BUDGET IMPACT  Personnel Non Personnel Revenues Expenditures/(Revenues)  \$0 \$0 \$0 \$0 \$0  CA/LIFE CYCLE DETAILS  DCA Name  Year Amount in Study:  Amount in Study:  Amount Incl HST Year in the study	PERATING BUDGET IMPACT  \$0  \$0  \$0  \$0  \$0  \$0  \$0  \$0  \$0  \$	Future Phases	TOTAL			-			
PERATING BUDGET IMPACT  Personnel Non Personnel Revenues Expenditures/(Revenues)  \$0 \$0 \$0 \$0 \$0  CA/LIFE CYCLE DETAILS  DCA Name  Year Amount in Study: Amount Incl HST Year in the study	PERATING BUDGET IMPACT  \$0  \$0  \$0  \$0  \$0  \$0  \$0  \$0  \$0  \$		0 0		0	0 (		20,000	
PERATING BUDGET IMPACT  \$0 \$0 \$0 \$0 \$0  CA/LIFE CYCLE DETAILS  DCA Name  Year Amount in Study  Amount in Study:  Amount Incl HST Year in the study	PERATING BUDGET IMPACT  \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0							20,000	OTAL FUNDING
SA/LIFE CYCLE DETAILS  DCA Name  Year Amount in Study:  Amount in Study:  Amount in Study:  Amount in Study:  Year in the study	PERATING BUDGET IMPACT \$0 \$0 \$0 \$0  CA/LIFE CYCLE DETAILS  DCA Amount in Life Cycle								OTALTONDING
\$0 \$0 \$0 \$0  CA/LIFE CYCLE DETAILS  DCA  Name  Year Amount in Study:  Amount in Study:  Amount Incl HST  Year in the study	\$0 \$0 \$0 \$0  CA/LIFE CYCLE DETAILS  DCA Amount in Life Cycle		Expenditures/(Revenues)	Expe	Revenues	Non Personnel	rsonnel	праст Ре	PERATING RUDGET IN
DCA     Year     Amount in Study       Name     Year     Amount in Study       Amount in Study:     Amount Incl HST       Year in the study	DCA Amount in Life Cycle		\$0		\$0	\$0	\$0	<u>macr</u>	ERMING BODGET II
Name  Year Amount Study  Amount in Study:  Amount Incl HST  Year in the study  Year in the study	Amount in <u>The cycle</u>							LS	
Amount in Study:  Amount Incl HST  Year in the study	Nome Var Amaint Study			n		Vac.			
Year in the study	Amount in Study:		<u>Life Cycle</u>		unt Study	rear Amo			Name
	Amount Incl HST		-						
	Year in the study		Amount in Study:						
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:	DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:		Amount in Study:  Amount Incl HST						
			Amount in Study:  Amount Incl HST		ost:	the year and/or c	s a change ir	Explain if there is	DCA and/or Life Cycle:



Page 345 of **58** 

\$20,000

**Number: 20019** 

**Project Cost:** 

						Studies/Pil	lot Programs
Commission: Developme	ent Services			Ţ	seful Life:		Approval:
Department: Planning				Category:		0 110	Approvar. —
Project Mgr: Marg Wou	ters		C			1	
Ward(s): CW ✓ 1	2 🗆 3 🗆 4 🗆			t Validation:			
5 🗆	6 7 8		Requirement	Validation:	Other(speci	ty in Notes)	
ETAILED DESCRIPTION	ON (SCOPE OF PI	ROJECT):					
unding required to host an overnment, the development of tential solutions and part of the focus on strategic acresentations on best housing the solutions of t	nt industry, non-pro- nerships to address M tions for increasing g practices and a wo	fit housing provider Markham's affordat the supply of afford orkshop to collabor	rs and support ble and rental h lable and renta	groups, and nousing needs l housing, the solutions to	nembers of the summit will	ne communit	y to develop amic speaker
ROJECT COSTS (\$)	2020	E 4 DI	NOTES				
	<u>2020</u>	Future Phases					he range of 150
Cost/Quote:	10,000	0					,000 is require Insultant to hos
Internal Charges:	0	0					ts for evaluating
External Consulting:	10,000	0	solutions, an	d provide a si	ummary repo	rt and preser	ntation back to
Sub Total:	20,000	0	Markham Co	ouncil in the S	Spring of 202	0.	
HST Impact:	0	0					
Total Project Cost:	20,000	0					
OURCE(S) OF FUNDING	G (\$)		Compo	onents			
	G (\$) Budget	Promotion, venues	Compo	onents		TOTA	
unding Type		Promotion, venues 9,000		onents 0	(	<u> </u>	
anding Type	<u>Budget</u>		Consultants		(	18,00	<u>Phases</u>
CA evelopment Fees	Budget 18,000	9,000	Consultants 9,000	0		18,00	Phases  O  O
CA evelopment Fees TOTAL FUNDING	18,000 2,000 20,000	9,000	9,000 1,000	0	(	18,00	11 Phases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CA evelopment Fees TOTAL FUNDING	18,000 2,000 20,000	9,000 1,000	9,000 1,000 rsonnel R	0	(	18,00 2,00 <b>20,00</b>	11 Phases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EA Evelopment Fees TOTAL FUNDING OPERATING BUDGET I	Budget   18,000   2,000	9,000 1,000 rsonnel Non Pe	9,000 1,000 rsonnel R	0 0	(	18,00 2,00 20,00 res/(Revenue	11 Phases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EA Evelopment Fees TOTAL FUNDING OPERATING BUDGET I	Budget   18,000   2,000	9,000 1,000 sonnel Non Per \$0 \$	9,000 1,000  rsonnel R	0 0	Expenditu	18,00 2,00 20,00 res/(Revenue	11 Phases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
cA  EVELOPMENT FEES  TOTAL FUNDING  PERATING BUDGET I  CA/LIFE CYCLE DETA  DCA  Name	Budget   18,000   2,000     20,000     Per   MPACT	9,000 1,000 sonnel Non Per \$0 \$	9,000 1,000 rsonnel R	0 0 evenues \$0 Amount in Study	Expenditure  Life	18,00 2,00 20,00 20,00 res/(Revenue \$0	1L Phases 0 0 0 0 0 0
TOTAL FUNDING  PERATING BUDGET I  CA/LIFE CYCLE DETA  DCA  Name  General Government - Va	Budget   18,000   2,000     20,000     Per   MPACT	9,000 1,000 sonnel Non Per \$0 \$	9,000 1,000  rsonnel R 0  ar Amount 20 18,00	0 0 0 <b>evenues</b> \$0 <b>Amount in</b> <b>Study</b> 0 1,593,0	Expenditure  Life Amou	18,00 2,00 20,00 20,00 res/(Revenue \$0	11 Phases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
cA  EVELOPMENT FEES  TOTAL FUNDING  PERATING BUDGET I  CA/LIFE CYCLE DETA  DCA  Name	Budget   18,000   2,000     20,000     Per   MPACT	9,000 1,000 sonnel Non Per \$0 \$	9,000 1,000 rsonnel R	0 0 0 <b>evenues</b> \$0 <b>Amount in</b> <b>Study</b> 0 1,593,0	Expenditure  Life Amou  Amou  Amou	18,00 2,00 20,00 20,00 res/(Revenue \$0  Cycle  Int in Study:	11 Phases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
canding Type  CA  Evelopment Fees  TOTAL FUNDING  DEFRATING BUDGET I  CA/LIFE CYCLE DETA  DCA  Name  General Government - Va	Budget   18,000   2,000     20,000     Per   MPACT	9,000 1,000 sonnel Non Per \$0 \$1	9,000 1,000  rsonnel R 0  Amount 20 18,00 18,00	0 0 0 <b>evenues</b> \$0 <b>Amount in</b> <b>Study</b> 0 1,593,0	Expenditure  Life Amou  Amou  Amou	18,00 2,00 20,00 20,00 res/(Revenue \$0	11 Phases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0



Page 347	of <b>53</b>

2020 PROJECT FUNDING REQUEST FORM **Number:** 20020 **Project Cost:** \$20,400 Project Name: Ontario Heritage Conference Host May 2020 Studies/Pilot Programs Commission: Development Services Pre Approval: Useful Life: Department: Planning Category: Minor Project Mgr: Regan Hutcheson, Stephen Chait Cost Validation: Internal peer review CW ✓ 1 □ 2 □ 3 □ 4 □ Ward(s): Requirement Validation: Other(specify in Notes) 5 6 7 8 **DETAILED DESCRIPTION (SCOPE OF PROJECT):** In 2018, Markham bid and won the 2020 Ontario Heritage Conference. Dates are May 28, 29, 30, 2020. Markham provides venues and programming and the Markham Local Organizing Committee operates the conference. 250 delegates are expected. Costs of the event are off-set by registration fees and sponsorship. This project is for additional media, advertising, marketing and lunch session. Engaged, Diverse & Thriving City **BUILDING MARKHAM'S FUTURE TOGETHER: PROJECT COSTS (\$)** 2020 **Future Phases** Markham is currently planning the conference and may wish to Cost/Quote: 20,000 0 sponsor a lunch session; require funding for media/advertising/marketing; key note speaker fees. 0 **Internal Charges:** 0 **External Consulting:** 0 0 Sub Total: 20,000 0 **HST Impact:** 0 352 **Total Project Cost:** 20,400 0

SOURCE(S) OF FUNDING	<u>(\$)</u>		Compon	ents			E 4
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Tax	20,400	0	0	0	0	0	0
TOTAL FUNDING	20,400				=	0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

DCA/LIFE CYCLE DETAILS **DCA** Amount in Life Cycle Year Name **Amount** Study Amount in Study: Amount Incl HST Year in the study DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 349 of **55**Number: 20021

**Project Cost:** \$669,300 Project Name: Planning & Design Staff Salary Recovery Studies/Pilot Programs Commission: Development Services Pre Approval: Useful Life: Department: Planning Category: Annual Project Mgr: Biju Karumanchery Cost Validation: Internal peer review CW ✓ 1 □ 2 □ 3 □ 4 □ Ward(s): Requirement Validation: Other(specify in Notes) 5 6 7 8 **DETAILED DESCRIPTION (SCOPE OF PROJECT):** The purpose is to recover salaries of Planning and Urban Design Staff which relate to growth related works.

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Engaged, Diverse & Thriving City

PROJECT COSTS (\$)	<u>2020</u>	Future Phases
Cost/Quote:	0	0
Internal Charges:	669,300	0
External Consulting:	0	0
Sub Total:	669,300	0
HST Impact:	0	0
Total Project Cost:	669,300	0

### NOTES

A significant amount of time is spent by planners (both development and policy staff) and urban designers on growth related hard infrastructure such as roads, storm water ponds, bridges etc. during the subdivision and secondary plan process and in one-off construction projects such as bridge construction and street re-construction. This project is to recover salaries of existing staff that assist in the delivery of growth related hard infrastructure.

SOURCE(S) OF FUNDING	<del>(</del> \$)		Compone	ents			E4
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
DCA	669,300	0	0	0	0	0	0
TOTAL FUNDING	669,300				_	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>		A	mount in	Life Cycle	
Name	Year	Amount	Study	Amount in Study	
Hard - City Wide - Studies		669,300	669,300	Amount in Study:	
TOTAL FUNDING		669,300	669,300	Amount Incl HST	
				Year in the study	

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

DC funding is included under the hard services studies of the Development Charges Background Study.



Page 351	of <b>57</b>

**Number:** 20022

_				I	Project Co	st: \$39.	,000
Project Name: York Re	gion Employmen	t Survey				Studies/Pilot F	·
Commission: Developm	nent Services			Ucofi		-	proval:
Department: Planning						) Fie Ap	provar. —
Project Mgr: Senior Ma	anager, Policy & Re	search	C .	Category: An			
Ward(s): CW ✓ 1	□ 2□ 3□ 4□			Validation: Re			
5	□ 6□ 7□ 8□		Requirement	Validation: Oth	ner(specify	in Notes)	
DETAILED DESCRIPTI	ON (SCOPE OF P	ROJECT):					
To fund Planning and Urbatesults are used to assist in with Economic Developme	monitoring growth ant.	and trends in emplo		am and York Re			
PROJECT COSTS (\$)	2020	Euture Phogos	NOTES				
	<u>2020</u>	Future Phases	The York Re	gion Employmer			
Cost/Quote:	39,000	0		s entered into an onducting the su			
Internal Charges:	0	0		and Markham's			
External Consulting:	0	0		1.7%. As a cost e			
Sub Total:	39,000	0	provided, sta	ff are assuming t	he 2019 co	st plus 2% for	2020.
HST Impact:	0	0					
Total Project Cost:	39,000						
OURCE(S) OF FUNDIN	<u>IG (\$)</u>		Compo	nents			
unding Type	<u>Budget</u>					<b>TOTAL</b>	<u>Future</u> <u>Phases</u>
)CA	35,100	0	0	0	0	0	0
evelopment Fees	3,900	0	0	0	0	0	0
TOTAL FUNDING	39,000					0	0
OPERATING BUDGET	<u>IMPACT</u> Pe				•	s/(Revenues)	
		\$0 \$	0	\$0	\$0	)	
OCA/LIFE CYCLE DET DCA	AILS						
<u>DCA</u> Name		Ye	ar Amount	Amount in Study	Life Cy	<u>/cle</u> 	
General Government - V	arious Studies		)20 35,100	•	Amount	in Study:	
TOTAL FUNDING			35,100		Amount	Incl HST	
				=	Year in	the study	
DCA and/or Life Cycl	e: Explain if there is	s a change in the yea	ar and/or cost:				
-							



Page 353 of **59** 

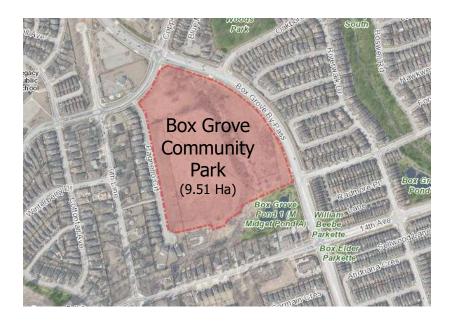
Number:	20024
Number:	20024

1 10 oct 1 tuille.	Grove Commu	nity Park - Co	onstruction		P	roject Cost	\$8,87	5,400
						N	ew Asset/Ex	pansion
Commission: Dev					Usefu	ıl Life: 25	Pre Ap	proval: $\square$
Department: Desi				(	Category: Ma	jor		
Project Mgr: Rich			<del></del>	Cost V	alidation: Oth	ner(specify in	n Notes)	
Ward(s): CW	1 2 3		F	Requirement V	-			
	5 □ 6 □ 7 🗹			•		· 1 · J	,	
DETAILED DESCE To hire the contractor ourts; basketball cou uilding and associate BUILDING MARK	rs to build the 23.5 art; mini skate zone ed landscape works	acre /9.5 ha Bo e; junior & senions.	x Grove Comi r play and wat		ark, combined			
ROJECT COSTS	(\$) <u>2020</u>	<u>Futur</u>	Phacec	NOTES This amount is	additional fund	ling requeste	ed to constru	et the
Cost/Qu	ote: 7,962,30	00	0 r	emainder of the	e park, plus a c	combined		
Internal Char	ges: 773,00	00	()	vashroom/pavi		_		
External Consult	ing:	0		onstruction, Project. Pedest				
Sub To	otal: 8,735,30	00	-	equest, Project	_		der separate	runung
HST Imp			0					
Total Project C		<del></del>	0					
OURCE(S) OF FU	NDING (\$)			Compone	nts			
unding Type	<u>B</u>	<u>Sudget</u>					TOTAL	<u>Future</u> <u>Phases</u>
	7,987	7,860	0	0	0	0	0	0
CA			0	0	0	0	0	
CA urks Cash-in-Lieu	887	7,860 7,540 <b>5,400</b>						
CA arks Cash-in-Lieu	887	7,540 <u>5,400</u>	0	0	0	0 =	0 0	000000000000000000000000000000000000000
CA urks Cash-in-Lieu TOTAL FUNDIN	887 G <b>8,87</b>	7,540		0	nues Exp		0 0	
CA urks Cash-in-Lieu  TOTAL FUNDING  PERATING BUD	887 <b>8,87 GET IMPACT</b>	7,540 <u>5,400</u> Personnel	0 Non Perso	0 nnel Reve	nues Exp	0 = penditures/	0 0	
CA  urks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUD  CA/LIFE CYCLE  DCA	887 <b>8,87 GET IMPACT</b>	7,540 <u>5,400</u> Personnel	Non Perso	nnel Reve	nues Exp	0 = penditures/	0 0 (Revenues)	
CA  urks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUD  CA/LIFE CYCLE  DCA  Name	887  G 8,87  GET IMPACT  DETAILS	7,540 <u>5,400</u> Personnel	Non Perso \$0	nnel Reve \$ Amount	nues Exp	0 = penditures/0 \$0	(Revenues)	(
CA urks Cash-in-Lieu  TOTAL FUNDING  PERATING BUD  CA/LIFE CYCLE  DCA  Name  Parks - Box Grove	GET IMPACT DETAILS  e Community Park	7,540 <u>5,400</u> Personnel	Non Perso	0 nnel Reve \$ An Amount 7,987,860	nues Exp	0 = penditures/0 \$0	(Revenues)	(
CA  urks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUD  CA/LIFE CYCLE  DCA  Name	GET IMPACT DETAILS  e Community Park	7,540 <u>5,400</u> Personnel	Non Perso \$0	nnel Reve \$ Amount	nues Exp	0 = = = = = = = = = = = = = = = = = = =	(Revenues)	(
CA urks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUD  CA/LIFE CYCLE  DCA  Name  Parks - Box Grove  TOTAL FUNDING	GET IMPACT DETAILS  e Community Park DING	7,540  5,400  Personnel \$0	Non Perso \$0 Year 2020	0 nnel Reve \$ An Amount 7,987,860 7,987,860	nues Exp	0 = penditures/ \$0 Life Cyc	(Revenues)	C
CA urks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUD  CA/LIFE CYCLE  DCA  Name  Parks - Box Grove  TOTAL FUNDING	GET IMPACT DETAILS  e Community Park	7,540  5,400  Personnel \$0	Non Perso \$0 Year 2020	0 nnel Reve \$ An Amount 7,987,860 7,987,860	nues Exp	0 = = = = = = = = = = = = = = = = = = =	(Revenues)	(
CA arks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUD  CA/LIFE CYCLE  DCA  Name  Parks - Box Grove  TOTAL FUNDING	GET IMPACT DETAILS  e Community Park DING	7,540  5,400  Personnel \$0	Non Perso \$0 Year 2020	0 nnel Reve \$ An Amount 7,987,860 7,987,860	nues Exp	0 = = = = = = = = = = = = = = = = = = =	(Revenues)	(
CA arks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUD  CA/LIFE CYCLE  DCA  Name  Parks - Box Grove  TOTAL FUNDING	GET IMPACT DETAILS  e Community Park DING	7,540  5,400  Personnel \$0	Non Perso \$0 Year 2020	0 nnel Reve \$ An Amount 7,987,860 7,987,860	nues Exp	0 = = = = = = = = = = = = = = = = = = =	(Revenues)	(
CA arks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUD  CA/LIFE CYCLE  DCA  Name  Parks - Box Grove  TOTAL FUNDING	GET IMPACT DETAILS  e Community Park DING	7,540  5,400  Personnel \$0	Non Perso \$0 Year 2020	0 nnel Reve \$ An Amount 7,987,860 7,987,860	nues Exp	0 = = = = = = = = = = = = = = = = = = =	(Revenues)	
CA arks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUD  CA/LIFE CYCLE  DCA  Name  Parks - Box Grove  TOTAL FUNDING	GET IMPACT DETAILS  e Community Park DING	7,540  5,400  Personnel \$0	Non Perso \$0 Year 2020	0 nnel Reve \$ An Amount 7,987,860 7,987,860	nues Exp	0 = = = = = = = = = = = = = = = = = = =	(Revenues)	(





# **Box Grove Community Park - Construction**



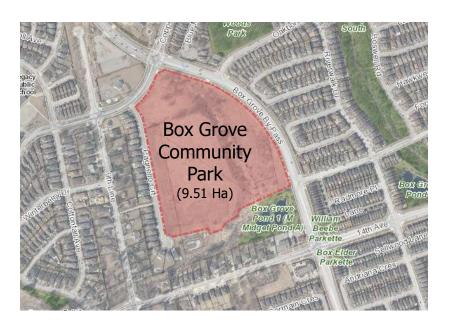
2020 Budget Request: \$8,875,400

- Ward 7
- Features:
  - · Jr/Sr playground
  - Adult fitness
  - Splash pad
  - Basketball
  - Skate zone
  - Junior soccer
  - · Off leash dog area
  - Tennis courts (2)
  - Pickle ball (4)
  - Washroom & maintenance building with pavilion
  - Pedestrian bridge
  - Parking lot
  - Shade structure and furnishings





## **Box Grove Community Park - Construction**



### **Total Project Cost**

TOTAL	\$ 12,406,400
PLUS 2020 Budget Request (Ph2 Con & Building)	\$ 8,875,400
Total Approved	\$ 3,531,000
18031 - Box Grove Community Park Bridge-Construction	\$ 1,058,200
16038 — Box Grove Comm. Park East – Ph1 Con.	\$ 2,472,800

- \* 2020 Budget Request is for phase 2 park construction and maintenance/ washroom/ pavilion building
- All phases to be constructed together (no phasing) starting in 2020
- Estimated in service date: Q3 2021



Page 357 of **63** 

Number: 20025

Project Name: Cornell (	Community Dark	Construction		Pro	ject Cost:	\$9,329	9,100
		- Construction			New	Asset/Exp	pansion
Commission: Developm	ent Services			Useful l	Life: 25	Pre App	oroval:
Department: Design				Category: Major	• ·		
Project Mgr: Richard Fo		·	Cost V	alidation: Recei	nt awards		
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$		Requirement Validation: Other(specify in Notes)					
	<b>2</b> 6□ 7□ 8□						
DETAILED DESCRIPTION  To hire a contractor to build unior, senior and water pla	d the 33.78 ac/13.26	ha Cornell Commu	•	-		onds; socce	er fields;
BUILDING MARKHAM	'S FUTURE TOG	ETHER: Engage	d, Diverse & Thrivi	ng City			
PROJECT COSTS (\$)	2020	Future Phases	NOTES	1 . 1: 200	10. C		1 5 1
Cost/Quote:	8,369,300	0		ls required in 202 as Project: 1701			
Internal Charges:	812,500	0	added to this bu	idget funding req	uest.		
External Consulting:	0	0	Maintence/Was Lifecycle cost i	hroom/Pavlion b s 12 620 523	uilding unde	r separate	accounts.
Sub Total:	9,181,800	0	Effective cost i	3 12,020,323.			
HST Impact:	147,300	0					
Total Project Cost:	9,329,100	0					
OURCE(S) OF FUNDIN	[G (\$)		Compone	ents			
<u> </u>			0 0				
unding Type	Budget				,	<u> FOTAL</u>	<u>Future</u> <u>Phases</u>
unding Type	<b>Budget</b> 8,396,190	0	0	0	0	<b>FOTAL</b> 0	
		0					
unding Type	8,396,190		0	0	0	0	Phases
unding Type  CA  arks Cash-in-Lieu	8,396,190 932,910 <b>9,329,100</b>	0	0 0	0 0	0 0	0 0 0	Phases 0
CA arks Cash-in-Lieu  TOTAL FUNDING	8,396,190 932,910 <b>9,329,100</b>	rsonnel Non Pe	0 0 rsonnel Reve	0 0 enues Expe	0 0 ===	0 0 0	Phases 0
unding Type  CA  arks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUDGET	8,396,190 932,910 9,329,100 Pe	0	0 0 rsonnel Reve	0 0	0 0	0 0 0	Phases 0
unding Type  CA  arks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUDGET  DCA/LIFE CYCLE DET	8,396,190 932,910 9,329,100 Pe	rsonnel Non Pe	0 0 rsonnel Reve	0 0 enues Expe	0 0 ==================================	0 0 0	Phases 0
unding Type  CA  arks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUDGET	8,396,190 932,910 9,329,100 Pe	rsonnel Non Pe	0 0 rsonnel Reve	0 0 enues Expe 0 mount in	0 0 ==================================	0 0 0 0 evenues)	Phases 0
unding Type  CA  arks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUDGET  DCA/LIFE CYCLE DET.  DCA	8,396,190 932,910 9,329,100 Pe IMPACT	rsonnel Non Per \$0 \$0	0 0 rsonnel Reve	0 0 enues Expe 0 mount in Study 8,396,190	0 0 mditures/(Response) \$0  Life Cycle Amount in S	0 0 0 evenues)	Phases 0
unding Type  CA  arks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUDGET  DCA/LIFE CYCLE DETA  DCA  Name	8,396,190 932,910 9,329,100 Pe IMPACT	rsonnel Non Per \$0 \$0	0 0 rsonnel Reve 0 \$	0 0 enues Expe 0 mount in Study 8,396,190	0 0 mditures/(Response) \$0  Life Cycle Amount in S	0 0 0 evenues)	Phases 0
Unding Type  CA  arks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUDGET  DCA/LIFE CYCLE DET  DCA  Name  Parks - Cornell Commun  TOTAL FUNDING	8,396,190 932,910 9,329,100 Pe IMPACT AILS	7 yea 20	0 0 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9	0 0 enues Expe 0 mount in Study 8,396,190	0 0 mditures/(Response) \$0  Life Cycle Amount in S	0 0 0 evenues)	Phases 0
unding Type  CA  arks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUDGET  DCA/LIFE CYCLE DET  DCA  Name  Parks - Cornell Commun	8,396,190 932,910 9,329,100 Pe IMPACT AILS	7 yea 20	0 0 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9	0 0 enues Expe 0 mount in Study 8,396,190	0 0 mditures/(Response) \$0  Life Cycle Amount in S	0 0 0 evenues)	Phases 0
Unding Type  CA  arks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUDGET  DCA/LIFE CYCLE DET  DCA  Name  Parks - Cornell Commun  TOTAL FUNDING	8,396,190 932,910 9,329,100 Pe IMPACT AILS	7 yea 20	0 0 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9	0 0 enues Expe 0 mount in Study 8,396,190	0 0 mditures/(Response) \$0  Life Cycle Amount in S	0 0 0 evenues)	Phases 0
Unding Type  CA  arks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUDGET  DCA/LIFE CYCLE DET  DCA  Name  Parks - Cornell Commun  TOTAL FUNDING	8,396,190 932,910 9,329,100 Pe IMPACT AILS	7 yea 20	0 0 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9	0 0 enues Expe 0 mount in Study 8,396,190	0 0 mditures/(Response) \$0  Life Cycle Amount in S	0 0 0 evenues)	Phases 0
Unding Type  CA  arks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUDGET  DCA/LIFE CYCLE DET  DCA  Name  Parks - Cornell Commun  TOTAL FUNDING	8,396,190 932,910 9,329,100 Pe IMPACT AILS	7 yea 20	0 0 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9	0 0 enues Expe 0 mount in Study 8,396,190	0 0 mditures/(Response) \$0  Life Cycle Amount in S	0 0 0 evenues)	Phases 0
Unding Type  CA  arks Cash-in-Lieu  TOTAL FUNDING  DPERATING BUDGET  DCA/LIFE CYCLE DET  DCA  Name  Parks - Cornell Commun  TOTAL FUNDING	8,396,190 932,910 9,329,100 Pe IMPACT AILS	7 yea 20	0 0 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9	0 0 enues Expe 0 mount in Study 8,396,190	0 0 mditures/(Response) \$0  Life Cycle Amount in S	0 0 0 evenues)	Phases 0





# **Cornell Community Park - Construction**



2020 Budget Request: \$9,329,100

- Ward 5
- Features:
  - · Jr/Sr playground
  - Splash pad
  - Basketball
  - Skate zone
  - Senior soccer Lit
  - Junior soccer 9v9
  - Senior ball diamonds Lit (2)
  - Tennis courts (2)
  - Pickle ball (8)
  - Washroom & maintenance building with pavilion
  - Parking lots
  - Shade structures and furnishings





# **Cornell Community Park - Construction**



### **Total Project Cost**

17017 - Cornell Comm. Park — Ph1 of 3 - Construction $19027$ - Cornell Park Maint. Building Const.	\$ 3,000,000 \$ 1,107,600
18030 - Cornell Park Pavilion and Washrooms Construction	\$ 925,300 \$ <b>5,032,900</b>
Total Approved PLUS 2020 Budget Request	\$ 9,329,100
TOTAL	\$ 14,362,000
TOTAL	7 14,302,000

- \* 2020 Budget Request is for phase 2 park construction
- All phases to be constructed together (no phasing) starting in 2020
- Estimated In service date: Q3 2021



Page 361 of **67** 

umber:	20026
umper.	20020

Project Name: Cornell P	'arkette - Design	& Construction			Project	Cost:	\$553,	800
						New A	sset/Exp	ansion
Commission: Developme	em Services			Ţ	Jseful Life:	25	Pre App	roval:
Department: <u>Design</u> Project Mgr: Richard Fo	urniar			Category:	Major			
<i>v</i> e			Cost	Validation:	Recent awa	ards		
	2 3 4 -		Requirement '	Validation:	Other(spec	ify in Note	es)	
	6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	DO HECEN						
PETAILED DESCRIPTION This project is to design and menities will include pathway  BUILDING MARKHAM	construct the 0.90 yays and associated	acre (0.36 ha) park landscape works.	ette in lacoated a		rner of 9th L	ine and H	wy 7. Pa	nrk
			NOTES					
ROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	NOTES Life cycle cos	t is \$443,04	0 (\$553,800	0 x 80%) o	ver 25 v	ears. Cost
Cost/Quote:	450,000	0	per ha is \$1,38	84,500 (\$55	3,800/0.40)	or \$553,80	00 per a	cre.
Internal Charges:	45,000	0	Annualized opstartining in 2					
External Consulting:	50,000	0	startilling iii 2	ozz. Esuilla	ica iii-seivi	e uait. M	) veilinei	2021.
Sub Total:	545,000	0						
HST Impact:	8,800	0						
Total Project Cost:	553,800	0						
OURCE(S) OF FUNDING	<u>G (\$)</u>		Compor	nents				T
unding Type	Budget					<u>TO</u>	TAL	<u>Future</u> <u>Phases</u>
CA	498,420	0	0	0		0	0	(
rks Cash-in-Lieu	55,380	0	0	0		0	0	(
TOTAL FUNDING	553,800						0	
	Pe	rsonnel Non Pe	rsonnel Rev	venues	Expenditu	res/(Reve	nues)	
OPERATING BUDGET I	MPACT 13		0	\$0		\$0		
CA/LIFE CYCLE DETA	AILS							
<u>DCA</u>		Va		Amount in	<u>Life</u>	<u>Cycle</u>		
Name Parks - Cornell Parkette -	9th Line & HWV 7	Yes	ar Amount 020 498,420	Study 498,4	Amoi	unt in Stud	ly:	
TOTAL FUNDING	Jui Line & HW 1 7	20	498,420		A	ant Incl HS	ST	
TOTAL FUNDING			=======================================	=		in the stu	dy	
DCA and/or Life Cycle	· Explain if there is	s a change in the ve	ar and/or cost:				,	
	. <u></u>	y a change in the year						
İ								





# **Cornell Parkette – Design & Construction**



2020 Budget Request: \$553,800

- Ward 5
- Features:
  - Pathways
  - Site furnishings
- Estimated in service date: Q4 2021



Page 365 of **9**88

Number:	20027
1 TUILLINGE .	

Project Name: Leitchcro	ft Building - Co	nstruction			Project (	Cost: \$66	4,600
Commission: Developme						New Asset/E	
Department: Design	501 11005			J	Jseful Life:	25 Pre A	pproval:
Project Mgr: Richard Fo	urnier			Category:	Minor		
Ward(s): CW □ 1□			Cost	Validation:	Recent awa	ırds	
	6 7 8		Requirement	Validation:	Other(speci	fy in Notes)	
DETAILED DESCRIPTION		ROJECT):					
This project is to construct a			Park.				
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Engage	ed, Diverse & Thr	iving City			
PROJECT COSTS (\$)	2020	Future Phases	NOTES				
Cost/Quote:	600,000	0				0 x 80%) over 2: ,560 starting in	
Internal Charges:	54,000	0	Estimated in		_	,500 starting in	2021.
External Consulting:	34,000 0	0			-		
Sub Total:	654,000						
HST Impact:	10,560	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$					
Total Project Cost:	664,600	0					
=							
SOURCE(S) OF FUNDING	G (\$)		Compo	nents			Future
Funding Type	<b>Budget</b>					TOTAL	<u>Phases</u>
DCA	598,140	0	0	0	(	0	0
Parks Cash-in-Lieu	66,460	0	0	0	(	0	0
TOTAL FUNDING	664,600					0	0
OPERATING BUDGET I	MPACT Pe			venues	Expenditu	res/(Revenues)	
	W C	\$0 \$	50	\$0		\$0	
DCA/LIFE CYCLE DETA DCA	AILS			Amount in	I ifa	Cycle	
Name		Yes		Study		_	
Parks - Leitchcroft Comm	unity Park Standalor	ne Washroom 20	020 598,140	598,1	40	int in Study:	
TOTAL FUNDING			598,140	598,1	40	nt Incl HST	
				=	— Year	in the study	
DCA and/or Life Cycle	Explain if there is	a change in the year	ar and/or cost:				

# **Leitchcroft Building - Construction**



2020 Budget Request: \$664,600

- Ward 8
- Features
  - · Washroom with maintenance building
- \* New washroom and maintenance building to be constructed in recently completed Saddlecreek Park
- Estimated in service date: Q3 2021



	2020 DDO IECT FUNDING DECUEST FORM	7	Page 369 of	f <b>7</b> 8.
MARKHAM	2020 PROJECT FUNDING REQUEST FORM	Number:	20028	
Project Name: Leitchero	P ft Townhouse Park - Design & Construction	roject Cost:	\$836,800	

Draigat Name: I '4 I 64 II I I I I I I I I I I I I I I I	<b>a</b>	•		4000,000
Project Name: Leitchcroft Townhouse Park - Design &	Construction		New	Asset/Expansion
Commission: Development Services  Department: Design  Project Mgr: Richard Fournier  Ward(s): CW □ 1□ 2□ 3□ 4□  5□ 6□ 7□ 8♥	Category: Cost Validation: Requirement Validation:	Other(speci		
<b>DETAILED DESCRIPTION (SCOPE OF PROJECT):</b> This project is to Design and Construct the 1.15 acre (0.46 ha) p structure and associated landscape works.	park. Anticipated amenities incl	ude junior /s	senior p	playground, shade

Engaged, Diverse & Thriving City **BUILDING MARKHAM'S FUTURE TOGETHER:** 

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	750,000	0
Internal Charges:	73,575	0
External Consulting:	0	0
Sub Total:	823,575	0
HST Impact:	13,200	0
Total Project Cost:	836,800	0

**NOTES** Life cycle cost is \$531,680 (\$664,600 x 80%) over 25 years. Cost per ha is \$1,444,782 (\$664,600/0.46 ha) or \$577,913 per acre. Annualized operating cost is \$4,112 (0.46 ha x \$8941/ha) starting

in 2021. Estimated in-service date: Q4 2020.

SOURCE(S) OF FUNDING	5 (\$)		T. 4				
Funding Type	Budget					TOTAL	<u>Future</u> <u>Phases</u>
DCA	753,120	0	0	0	0	0	0
Parks Cash-in-Lieu	83,680	0	0	0	0	0	0
TOTAL FUNDING	836,800				=	0	0

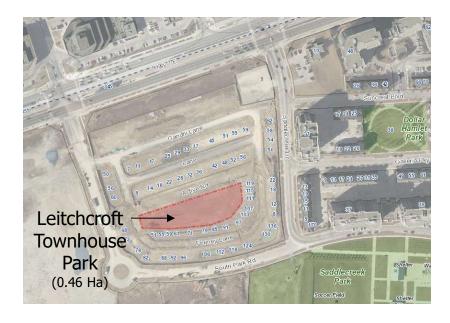
OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OI ERATING BUDGET INITACT	\$0	\$0	\$0	\$0	

DCA NameYearAmount in StudyLife CycleParks - Leitchcroft Community Park Phase 22020753,120753,120Amount in Study:TOTAL FUNDING753,120753,120Amount Incl HST Year in the studyDCA and/or Life Cycle: Explain if there is a change in the year and/or cost:- Developer Upfront	A/LIFE CYCLE DETAILS				·	<u> </u>
TOTAL FUNDING  TOTAL	DCA Name		Year			· · · · · · · · · · · · · · · · · · ·
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:  Year in the study	Parks - Leitchcroft Community Park Phase	2	2020	753,120	753,120	•
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:	TOTAL FUNDING			753,120	753,120	Amount Incl HST
	TOTAL FUNDING					
		o is a shanga i	n the weer en	d/or cost:		Year in the study
	DCA and/or Life Cycle: Explain if ther	e is a change i	n the year an	d/or cost:		Year in the study
	DCA and/or Life Cycle: Explain if ther	e is a change i	n the year an	d/or cost:	<u> </u>	Year in the study
	DCA and/or Life Cycle: Explain if ther	e is a change i	n the year an	d/or cost:	· · · · · · · · · · · · · · · · · · ·	Year in the study





# Leitchcroft Townhouse Park - Design & Construction



2020 Budget Request: \$836,800

- Ward 8
- Features:
  - Jr playground
  - · Passive open space
  - Shade structure

- \* Potential Developer Up-fronted Park
- \* Estimated in service date: Q4 2020



Page 373 of **79** 

**Number:** 20029

Project Name: Wismer M	AcCawan Wood	let Deuly Design	. e. Com	, <b>t</b>		Project C	Cost:	\$1,26	9,200
		iot Park - Desigi	1 & Cons	structio	<u> </u>		New A	Asset/Ex	pansion
Commission: Developme	ent Services				Usefu	ıl Life:	25	Pre Ap	proval: $\square$
Department: Design				(	Category: Ma	jor			
Project Mgr: Richard Fo				Cost V	alidation: Red	cent awa	rds		
Ward(s): CW ☐ 1 ☐			Require	ement V	alidation: Oth	er(speci	fy in No	otes)	
		DO IECE)							
This project is to design and playground, tennis courts, shall building markham's	construct the 2.98 nade structures, patl	acre (1.20 ha) park hways, and associat		ape worl	cs.	ted park	ameniti	es includ	e Senior
PROJECT COSTS (\$)	2020	Entrus Phases	NOTE	S					
Cost/Quote:	1,100,000	Future Phases 0			is \$1,015,392 (				
Internal Charges:	99,000	0			1,057,666 (\$1, d operating co				
External Consulting:	50,000	0			. Estimated in-				
Sub Total:	1,249,000	0							
HST Impact:	20,240								
Total Project Cost:	1,269,200	0							
Ξ	<u> </u>								
SOURCE(S) OF FUNDING	<u>G (\$)</u>		C	ompone	nts				<u>Future</u>
Funding Type	<u>Budget</u>						<u>T</u> (	<u>OTAL</u>	<u>Phases</u>
DCA	1,142,280	0	(	)	0	C	1	0	0
Parks Cash-in-Lieu	126,920	0	(	)	0	C	)	0	0
TOTAL FUNDING	1,269,200							0	0
OPERATING BUDGET I	MPACT Per	rsonnel Non Pe	ersonnel	Reve	enues Ex	pendituı	es/(Rev	venues)	
OLEMITING DEDGET I		\$0 \$	60	\$	0		\$0		
DCA/LIFE CYCLE DETA	AILS								
<u>DCA</u> Name		Ye	ar Amo		mount in Study	<u>Life</u>	<u>Cycle</u>		
Parks - Wismer McCowar	ı Woodlot Park			12,280	1,142,280	Amou	nt in Stu	ıdy:	
TOTAL FUNDING				12,280	1,142,280	Amou	nt Incl F	IST	
						Year	in the st	udy	
DCA and/or Life Cycle	: Explain if there is	s a change in the year	ar and/or o	cost:					





### Wismer McCowan Woodlot Park – Design & Construction



2020 Budget Request: \$1,269,200

- Ward 4
- Features:
  - Sr playground
  - Adult fitness
  - Tennis (2)
  - · Shade structure
- \* Scope revised to include tennis courts in response to ILMP need in the area
- Approved project request 17016 Wismer
   McCowan Woodlot Park Design and
   Construction for \$485,000 to be closed in late 2019
   upon completion of revised design package,
   remaining balance to be returned to source.
- Estimated in service date: Q4 2021



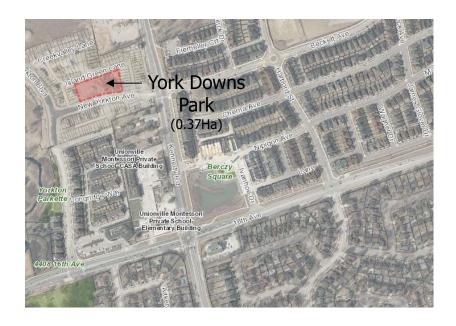
Page 377 of **83** 

Project Name: Wassle Dass	una Daula - Dasia	- 6 Cam	-44:			Project (	Cost:	\$791	,900
Project Name: York Dov		n & Cons	struction				New	Asset/Exp	pansion
Commission: Developme	nt Services				Ţ	Jseful Life:	25	Pre App	oroval:
Department: Design					Category:	Minor		11	
Project Mgr: Richard Fo					Cost Validation:		ards		
	2 3 4 4				nent Validation:			otes)	
5 🗆	6 ✓ 7 □ 8 □			110401101					
PETAILED DESCRIPTION  this project is to design and anticipated park amenities in	construct the 0.92	acre (0.37	ha) park lo						
BUILDING MARKHAM'	S FUTURE TOG	ETHER:	Engaged,	Diverse &	Thriving City				
ROJECT COSTS (\$)	2020	Future l	Phases	NOTES					
Cost/Quote:	650,000		0		e cost is \$633,52 \$2,140,270 (\$79				
Internal Charges:	64,350		0	Annualiz	ed operating cos	st is \$3,308 (	0.37 ha		
External Consulting:	65,000		0	in 2021.	Estimated in-ser	vice date: Q2	2 2021.		
Sub Total:	779,350		0						
HST Impact:	12,584		0						
Total Project Cost:	791,900		0						
OURCE(S) OF FUNDING	7 (4)								
				Co	mponents				<b>Future</b>
unding Type	Budget						<u>T</u>	OTAL	<u>Phases</u>
CA	712,710		0	0	0		0	0	0
rks Cash-in-Lieu	79,190		0	0	0		0	0	0
TOTAL FUNDING	791,900						=	0	0
NDED ATING DUDGET I	MDA CT Per	rsonnel	Non Pers	onnel	Revenues	Expenditu	res/(Re	venues)	
<u> PERATING BUDGET I</u>	WIFACI	\$0	\$0		\$0		\$0		
CA/LIFE CYCLE DETA	ILS								
<u>DCA</u>			Year	Amou	Amount in	<u>Life</u>	Cycle		
Name Parks - York Downs Parke	ette Kennedy		202		int Study 2,710 712,7	Amoi	unt in St	udy:	
TOTAL FUNDING	ette Keimedy		202		$\frac{2,710}{2,710} = \frac{712,7}{712,7}$	A	int Incl l	HST	
TOTAL FUNDING							in the s	tudy	
DCA and/or Life Cycle	: Explain if there is	a change i	in the vear	and/or co	st:				
Derrand, or Ene Oyere	. Emplain it diere is	- a change	The the year	<b>aria</b> , or <b>c</b> a					





## **York Downs Park – Design & Construction**



2020 Budget Request: \$791,900

- Ward 6
- Features:
  - · Jr/Sr playground
  - Shade structure

- \* Potential Developer Up-fronted Park
- Estimated in service date: Q2 2021



Page 381	of	37

\$429,600

**Number:** 20031

**Project Cost:** 

						New Asset	/Expansion		
Commission: Developme				Ţ	Jseful Life:	90 Pre	Approval:		
Department: Engineering Project Mgr: Marija Ilic	7			Category:	Major				
			Co	st Validation:	Other(speci	fy in Notes)			
	2 3 4		Requirement Validation: Other(specify in Notes)						
	6 □ 7 □ 8 □	DO IECT)							
This project is for the Class I		· · · · · · · · · · · · · · · · · · ·	votormoin ha	woon Dichmor	d Hill and N	Jorkham to n	rovido a socond		
watermain and system securi water network. This waterma	ty for Pressure Dis	trict 7 (PD7). This ted under Hwy 404	will connect t and will be c	he Richmond I connected to th	Hill PD 7 wa	ter network t	o Markham		
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Sare &	Sustainable Co	ommunity					
PROJECT COSTS (\$)	<u>2020</u>	Future Phases	NOTES Currently,	the PD7 in Ma	rkham (gene	rally north of	Elgin Mills		
Cost/Quote:	0	5,412,000	Road) has	only one water	main on Elgi	n Mills Road	from Richmond		
Internal Charges:	48,000	432,720		ore developme District, the on			loyment Block rovide the		
External Consulting:	375,000	324,720	redundancy	and the syster	n security. F	rior to the R	egion		
Sub Total:	423,000	6,169,440					urch-Stouffville Richmond Hill		
HST Impact:	6,600	100,966		e the needed sy	•		recumona 11111		
Total Project Cost:	429,600	6,270,400							
SOURCE(S) OF FUNDING	G (\$)		Com	onents			- E-4		
Funding Type	Budget					TOTA	<u>Future</u> <u>L Phases</u>		
runding Type	Duager								
	429,600	0	0	0	(	) (	0 6,270,400		
		0	0	0	(		6,270,400 6,270,400		
DCA TOTAL FUNDING	429,600 429,600	0 rsonnel Non Pe		0 Revenues			6,270,400		
DCA	429,600 429,600		rsonnel				6,270,400		
DCA  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA	429,600  429,600  Per	rsonnel Non Pe	rsonnel	Revenues		res/(Revenue	6,270,400		
DCA  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA	429,600  429,600  Per	rsonnel Non Pe \$0 \$	rsonnel 1	Revenues \$0 Amount in	Expenditu	res/(Revenue	6,270,400		
DCA  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA	429,600  429,600  Per	rsonnel Non Pe	rsonnel 1	Revenues \$0 Amount in	Expenditu	res/(Revenue	6,270,400		
DCA  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA	429,600  429,600  Per	rsonnel Non Pe \$0 \$	rsonnel 1	Revenues \$0 Amount in	Expenditure  Life  Amou	res/(Revenue \$0 Cycle	6,270,400		
DCA  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA	429,600  429,600  Per	rsonnel Non Pe \$0 \$	rsonnel 1	Revenues \$0 Amount in	Expenditure  Life  Amou	res/(Revenue \$0 Cycle  nt in Study:	6,270,400		
DCA  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA	429,600  429,600  Per  MPACT  ILS	rsonnel Non Pe \$0 \$ Yes	rsonnel 1	Revenues \$0  Amount in Study	Expenditure  Life  Amou	res/(Revenue \$0 Cycle  nt in Study:  nt Incl HST	6,270,400		
DCA TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA DCA Name	429,600  429,600  Per State of the Per S	rsonnel Non Pe \$0 \$  Yea  a change in the yea	rsonnel 0  nr Amount	Revenues \$0  Amount in Study	<b>Life</b> Amou Amou Year	res/(Revenue \$0 Cycle  nt in Study:  nt Incl HST  in the study	es)		





Page 385 of **38**8

VIARKH	AM 2020 PROJECT FUNDING REQUEST FORM	Number:	20032
Project Name:	· · · · · · · · · · · · · · · · · · ·	ect Cost:	\$86,500
_	Active Transportation Awareness Program  Development Services	Studies	s/Pilot Programs

Pre Approval: Useful Life: 0 Department: Engineering Category: Annual Project Mgr: Fion Ho Cost Validation: Other(specify in Notes) CW ✓ 1 □ 2 □ 3 □ 4 □ Ward(s): Requirement Validation: Other(specify in Notes) 

#### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

The Active Transportation Awareness Program is to support, promote and encourage active transportation in Markham. This includes annual and on-going work, such as projects identified by the Cycling & Pedestrian Advisory Committee (CPAC), walking and cycling gaps, pavement marking and signage improvements, events and outreach and more. Potential pilots and initiatives related to active transportation would also be included under the Active Transportation Awareness Program.

Safe & Sustainable Community **BUILDING MARKHAM'S FUTURE TOGETHER:** 

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	85,000	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	85,000	0
HST Impact:	1,496	0
Total Project Cost:	86,500	0

#### NOTES

Budget items such as:

- CPAC Budget: (\$25,000)

- MUP Planning: (\$10,000)

- Corridor signage & Payment marking improvements (\$25,000)

-Feasibility Studies for active transportation initiatives (\$10,000)

Encouragement/promotional & pilots (\$15,000)

The project amount is consistent with the prior year's request (Project 19030). The expenditure in 2018 was \$80,675 and 2019 (to date) is \$2,085.

SOURCE(S) OF FUNDING (\$)			Compone	nts			E4
Funding Type	Budget	<u>CPAC</u>	Ongoing			TOTAL	<u>Future</u> <u>Phases</u>
DCA	56,225	16,510	39,715	0	0	56,225	0
Non-DC Growth	30,275	8,890	21,385	0	0	30,275	0
TOTAL FUNDING	86,500				=	86,500	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

#### **DCA/LIFE CYCLE DETAILS**

Name Y	ear	Amount	amount in Study	<u>Life Cycle</u>
Hard - Special Projects - City Wide - Travel Demand		56,225	3,331,694	Amount in Study:
Management				Amount Incl HST
TOTAL FUNDING		56,225	3,331,694	Year in the study

Tuesday, September 10, 2019 12:16

Active Transportation Awareness budget breakdown spent in the past few years:

#### 2016

- MUP Path Signage & Pavement Marking Project (Prepared MUP Signage Plans for MM, DCP, Markham Road, Warden)
- BikeShare Study Terms of Reference
- John St. Feasibility Study
- CPAC (Bike Valet Service, Markham Cycling Day, Jane's Walk, Bike Racks for event parking)
- Trail Connection Feasibility Study 2019 (25%)

#### 2017

- Signage & Pavement Marking Guidelines for On-Road Cycling Facilities 2018 (IBI)
- Edgeline Implementation (50km)
- Intersection Treatment at Unionville Main St & Enterprise Blvd
- CPAC (Markham Cycling Day, Cycling Map Update, Bike Repair & donation)
- ATMP Communications Plan
- Active Transportation Expo

#### 2018

- Trail Connection Feasibility Study 2019 (75%)
- SideWalk Completion Program Communications Plan
- CPAC (Markham Cycling Day, Jane's Walk)
- Active Transportation Expo
- Active Transportation School Pilot Phase 1

#### 2019

- CPAC (Markham Cycling Day, Cycling Map Update, Jane's Walk, AT School Pilot Phase 2)
- Proposed: Road Diet Designs (3 road sections)
- Proposed: Bike Share Implementation Operating Plan
- Proposed: Road Safety Communications/Video

#### 2020 (all proposed)

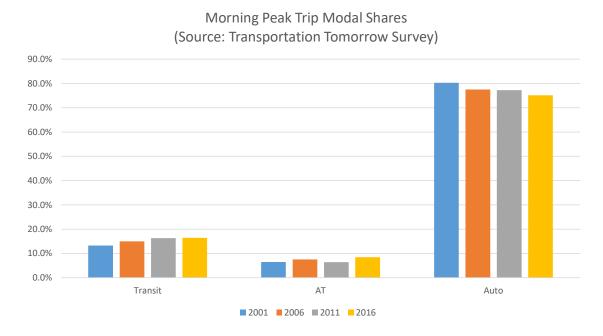
- Wayfinding Signage Guideline
- Trail Connection Feasibility Study: Design for one connection
- Denison St. MUP update feasibility Study

# Non-Auto Travel Demand Trends in Markham

**Transportation Tomorrow Survey** 

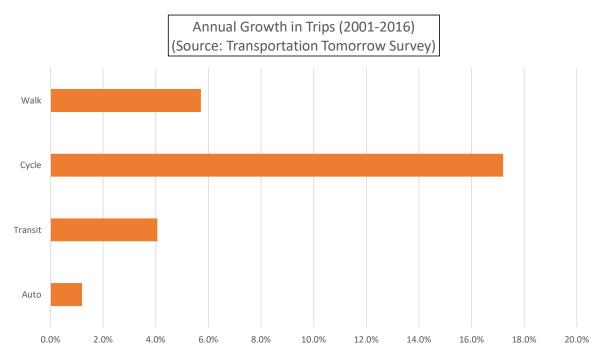
# Non-Auto Travel Modal Shares Trending Up

 Since 2001, transit and AT mode shares are trending up while auto mode shares are trending down



# Non-Auto Trips Growing Rapidly

 Since 2001, transit, walking and cycling trips growing annually at 4, 5 and 10 times car trips





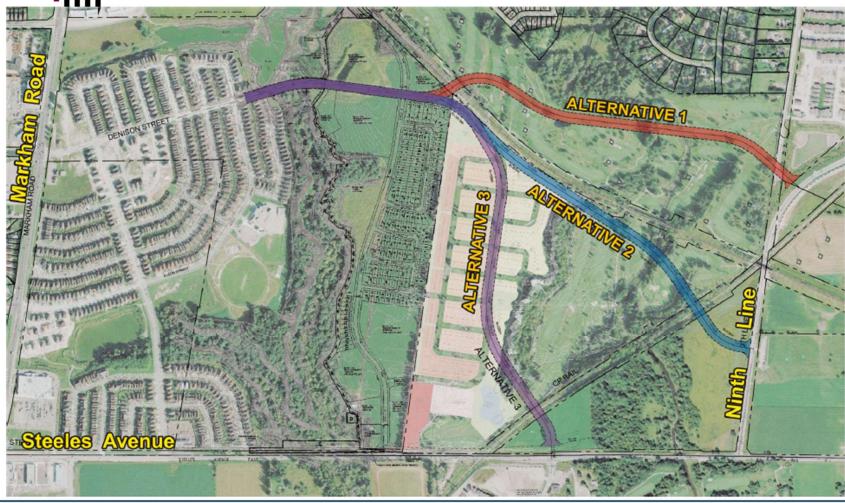
Page 393 of **999** 

2020 PROJECT FUNDING REQUEST FORM 20033 Number:

David Name To a second	V (57)	<b>.</b>	T 4			Project (	Cost:	<b>\$51</b>	4,900
Project Name: <b>Denison S</b>	Street Extension	Environmenta	al Asse	ssment			New As	sset/E	xpansion
Commission: Developme	pment Services Use			seful Life:			pproval:		
Department: Engineering	g		-		Category:		O .	110 71	pprovan. —
Project Mgr: Alain Cach	ola		÷		Recent awa	4			
Ward(s): CW 1	2 3 4 4		D.		_	-)			
5 🗆	6□ 7▼ 8□		Ke	equirement Va	indation: –	Otner(speci	ny in Note	(S)	
ETAILED DESCRIPTIO	ON (SCOPE OF P	ROJECT):							
January 2014, Council en aluation of a potential exte proposed extension, including grade separation (CP Extension) Significant costs a UILDING MARKHAM'	ension of Denison S uding crossing of the Rail or CN Rail), crossociated with property	Street to Ninth Line Rouge River; cossing of the Rougerty acquisition,	ine. Sig Hydro o uge Riv , impact	gnificant envir corridor and ra er and proxim	onmental a ail corridor aity to the I operation a	and property s. Technica Hydro Corri	y impacts a al issues su idor will n	are as ch as eed to	sociated withe need for be further
ROJECT COSTS (\$)	2020	Future Phases		OTES					
Cost/Quote:	0	14,211,259	The Markham Transportation Strategic Plan (MTSP) in need for a potential extension of Denison Street to add						
Internal Charges:	57,000	1,230,938		twork connect					
External Consulting:	450,000	895,140	a c	consultant was	retained to	o review the	e feasibilit	y of e	xtending
Sub Total:	·			enison Street to king into consi					
HST Impact:	507,000 7,920	<u>16,337,337</u> <u>265,873</u>		recommendat					
Total Project Cost:	514,900	16,603,200		provements -					
	314,700	10,003,200	Li	nk Individual	Environme	entai Assess	sment (EA	) Stud	iy.
URCE(S) OF FUNDING	G (\$)			Componer	nts				Future
nding Type	<u>Budget</u>						<u>TO'</u>	TAL	Phases
A	514,900	0		0	0	(	)	0	16,603,20
TOTAL FUNDING	514,900							0	16,603,20
PERATING BUDGET I	<u>MPACT</u>	rsonnel Non \$0	Person \$0	nel Rever		Expenditu	res/(Reve	nues)	
	AILS								
				A	accept in	T ifa			
<u>DCA</u>		•	Vear		nount in Study	Life	<u>Cycle</u>		
	on Street Extension S			Amount	Study	Δ μοι	Cycle  Int in Stud	y:	
<u>DCA</u> Name	on Street Extension S		<b>Year</b> 2020	<b>Amount</b> 514,900		Amou	-		
DCA Name Hard - Structures - Deniso	on Street Extension S			Amount	Study	Amou	ınt in Stud	Т	
Name Hard - Structures - Deniso		tructure over	2020	<b>Amount</b> 514,900 514,900	<b>Study</b> 514,90	Amou	int in Stud	Т	

## **Denison Street Extension** (Feasibility Study)









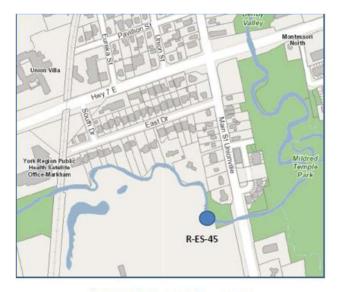


Page 397 **4 63** 

Number:	20034
---------	-------

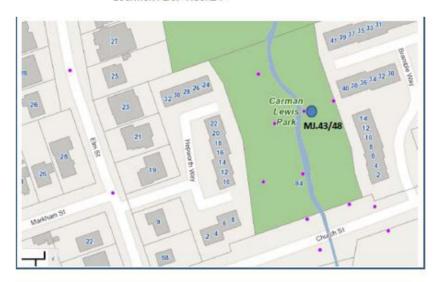
Project Name: <b>Downstr</b> e	aam Improvama	nte Progra	ım (Constr	netion)		Project Co	st: \$1	1,234,900	0
	<del>-</del>	nts i rugra	iii (Consti	uction)			New Asse	et/Expansio	on
Commission: Developme					U	seful Life:	0 Pr	e Approva	սl։ 🗆
Department: Engineerin					Category:	Maior			
Project Mgr: Nehal Azn	-					Recent award	le .		
	2 3 4 4		R		-	Other(specify			
5 🗆	□ 6□ 7□ 8□		K	equirement v	andation.	Offici(specify	/ III INOICS)		
ETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):							
roject is required to mitigate rotect fish habitat. This progreams in the City. Location German River Creek (GMC)	oject will reduce ris	k of floodin	g and provid MJ-43-28) M	le various erd Iount Joy Cre	osion protectek (MJ-ES	ction and sedi	ment remo	val to vario	
BUILDING MARKHAM	'S FUTURE TOG	ETHER:	Safe & Sust	ainable Comm	unity				
POJECE COCEC (A)			. \	OTES					
PROJECT COSTS (\$)	<u>2020</u>	Future P	nases T	his request is		ction of above			
Cost/Quote:	1,100,000					es are part of			
Internal Charges:	115,500		of			on Master Sturonto and Reg			
External Consulting:	0		T) 0	RCA) review	ved and app	proved the res	toration pl	an and has	issued
Sub Total:	1,215,500					truction. (Not	all erosion	n is caused	l by
HST Impact:	19,360			evelopment o		% Life Cycle			
Total Project Cost:	1,234,900			anding. 05 70	De una 33	70 Elie Cycle			
OURCE(S) OF FUNDIN	G (\$)			Compone	onte				
				Compone	ents				<u>ture</u>
unding Type	Budget						<u>TOT</u>	<u>AL Ph</u>	<u>ases</u>
CA	802,685		0	0	0	0		0	0
perating Funded Life Cycle	432,215		0	0	0	0		0	0
TOTAL FUNDING	1,234,900							0	0
DEDATING DUDGET	IMPACT Pe	rsonnel	Non Persor	nel Rev	enues	Expenditure	es/(Revenu	ies)	
OPERATING BUDGET	<u>IMPACI</u>	\$0	\$0	9	80	9	60		
CA/LIFE CYCLE DETA	AILS								
<u>DCA</u>				A	mount in	Life C	<u>'ycle</u>		
Name			Year	Amount	Study	Δ moun	t in Study:		
Hard - Sidewalks - City's	Watercourses - Eros	ion Control -		802,685	12,050,64	4 / —	•		
TOTAL FUNDING				802,685	12,050,64	+ /	t Incl HST		
						Year ii	n the study	,	
DCA and/or Life Cycle	e: Explain if there is	s a change ir	n the year an	d/or cost:					
Amount in the DCBS is		nstream imp	rovement pr	ogram. Amo	unt requeste	ed is consister	t with the	2019 Life	
Cycle Reserve Study up	odate.								

# **2020 Downstream Erosion Protection**



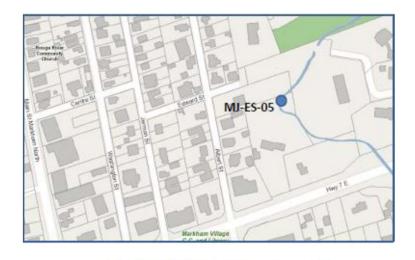
EROSION RESTORATION (SITE 1 – R-ES-45)

LOCATION PLAN - FIGURE 1



EROSION RESTORATION (SITE 3 – MJ.43/48)

LOCATION PLAN - FIGURE 3



EROSION RESTORATION (SITE 2 – MJ-ES-05)

LOCATION PLAN - FIGURE 2



EROSION RESTORATION (SITE 4 – GMC.13/57)

LOCATION PLAN - FIGURE 4



Page 401 4f 0 7

Number: 20035
---------------

Project Name: <b>Dow</b>	netroom Imr	rovomon	ts Program (	Decign	)		Project C	ost: \$	319,100	
			us i rogram (	Design	.,			New Asse	t/Expansi	on
Commission: Deve		es		_		Us	seful Life:	0 Pre	Approva	ıl: 🗆
Department: Engin				_		Category:	Minor		11	
Project Mgr: Neha	-			_			Recent awar	rds		
Ward(s): $CW \square$	1	□ 4□		R	equirement \	_				
	5 6 7	□ 8□		10	equirement	-	Outer (speen	y iii i votes)		
ETAILED DESCR	IPTION (SCO	PE OF PI	ROJECT):							
roject is required to n his project will reduc										
BUILDING MARK	HAM'S FUTU	RE TOGI	ETHER: Sai	fe & Sust	ainable Comn	nunity				
ROJECT COSTS (	<u>\$)</u> 2020		Future Phase		OTES					
Cost/Que		0	1,925,000	-   B	ased on estin		•	1 0		_
					the amount of the					
Internal Charg External Consulti		,300 ,000	191,812 0	(\$	319,100 + \$2	2,150,700).	Coordination	n and permit	s from	·
		<u> </u>			nvironmental					
Sub To	-	,300	2,116,812		ocations inclu ED-3. These					
HST Impa Total Project Co		,840	33,880	-   w	ithin the Tho	rnhill area b	etween Stee			-
Total Troject Co	319	,100	2,150,700	A.	venue, east o	f Henderson	n Road			
OURCE(S) OF FUN	NDING (\$)				Compon	ents			_ F	ture_
unding Type		<b>Budget</b>						TOTA		ases
CA	2	207,415	0		0	0	0		0 1,39	97,955
perating Funded Life C	Cycle	111,685	0		0	0	0		0 75	52,745
TOTAL FUNDING		319,100							0 2,15	50,700
PERATING BUDG	GET IMPACT	Per		n Person			Expenditur		es)	
			\$0	\$0		\$0		\$0		
CA/LIFE CYCLE	<u>DETAILS</u>									
<u>DCA</u> Name				Year	Amount A	mount in	<u>Life (</u>	<u>Cycle</u>		
Hard - Sidewalks -	City's Watercour	rses - Erosio	on Control -	1 cai	207,415	Study 12,050,64	Amou	nt in Study:		
TOTAL FUND		Elosio	on Control		207,415	12,050,64		nt Incl HST		
TOTAL PUND	1110				207,413			n the study		
DCA and/or Life	Cycle: Explain	if there is	a change in the	year an	d/or cost:			J		
Amount in the DC Cycle Reserve Stu		ntire down	stream improve	ement pr	ogram. Amo	unt requeste	d is consiste	nt with the 2	2019 Life	
1										



Page 403 4f 760

KHAM	2020 PROJECT FUNDING REQUEST FORM	<b>1</b> Number:	20036	JE
	F	Project Cost:	\$401,200	

					]	New Asset/E	xpansion
Commission: Developme	nt Services			Usef	ful Life: (	) Pre A	proval:
Department: Engineering			Category: M		,	· F · · · · ·	
Project Mgr: Marija Ilic			Con	t Validation: Re		,	
Ward(s): $CW \square 1 \square$		t Validation: Co					
5 🗆	6□ 7□ 8□		Requiremen	vandation. Co	muition asse	essment	
DETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):					
Detailed Design for construc			e Trans Canada		h Avenue (4	7/5m length).	
PROJECT COSTS (\$)	2020	Future Phases	NOTES				
Cost/Quote:	0	1,485,000		ollector Roads (l be completed for			
Internal Charges:	45,000	128,956		C Background st			
External Consulting:	350,000	0		ed as a part of a			
Sub Total:	395,000			ormation, it was onger included in			
HST Impact:	6,160	1,613,956 26,136		100% CWH in			Diva wiii o
Total Project Cost:	401,200	1,640,100					
=							
SOURCE(S) OF FUNDING	<u> </u>		Compo	onents			<u>Future</u>
Funding Type	<u>Budget</u>					<b>TOTAL</b>	Phases
	401,200	0	0	0	0	0	1,640,100
DCA	- ,						1,640,100
TOTAL FUNDING	401,200				:	0	
TOTAL FUNDING	401,200	rsonnel Non Po	ersonnel R	evenues Ex	xpenditures	/(Revenues)	
TOTAL FUNDING	401,200		ersonnel R	evenues Ex	xpenditures	:/(Revenues)	
TOTAL FUNDING OPERATING BUDGET I	401,200  MPACT  Pe				•	:/(Revenues)	
TOTAL FUNDING OPERATING BUDGET I	401,200  MPACT  Pe	\$0	50	\$0  Amount in	•	s/(Revenues)	7 7
TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA DCA Name	401,200  MPACT  Pe	\$0 S	ear Amount	\$0  Amount in Study	\$( Life Cy	/(Revenues) ) /cle	7
TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA  Name  Hard - Roads - Honda Bly	401,200  MPACT  Pe	\$0 S	ear Amount 020 401,20	Amount in Study 0 401,200	Life Cy Amount	/(Revenues)  //Cle  in Study:	7 7
TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA DCA Name	401,200  MPACT  Pe	\$0 S	ear Amount	\$0  Amount in Study 0 401,200	Life Cy Amount Amount	/(Revenues)  /cle  in Study:	
OPERATING BUDGET II  DCA/LIFE CYCLE DETA DCA Name Hard - Roads - Honda Blv TOTAL FUNDING	HPACT  LS  d - Extension to 19th	Yen Avenue 2	ear Amount 020 401,20 401,20	Amount in Study 0 401,200	Life Cy Amount Amount	/(Revenues)  //Cle  in Study:	
TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA  Name  Hard - Roads - Honda Bly	HPACT  LS  d - Extension to 19th	Yen Avenue 2	ear Amount 020 401,20 401,20	Amount in Study 0 401,200	Life Cy Amount Amount	/(Revenues)  /cle  in Study:	
TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA DCA Name Hard - Roads - Honda Blv TOTAL FUNDING	HPACT  LS  d - Extension to 19th	Yen Avenue 2	ear Amount 020 401,20 401,20	Amount in Study 0 401,200	Life Cy Amount Amount	/(Revenues)  /cle  in Study:	
TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA DCA Name Hard - Roads - Honda Blv TOTAL FUNDING	HPACT  LS  d - Extension to 19th	Yen Avenue 2	ear Amount 020 401,20 401,20	Amount in Study 0 401,200	Life Cy Amount Amount	/(Revenues)  /cle  in Study:	
TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA DCA Name Hard - Roads - Honda Blv TOTAL FUNDING	HPACT  LS  d - Extension to 19th	Yen Avenue 2	ear Amount 020 401,20 401,20	Amount in Study 0 401,200	Life Cy Amount Amount	/(Revenues)  /cle  in Study:	
TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA DCA Name Hard - Roads - Honda Blv TOTAL FUNDING	HPACT  LS  d - Extension to 19th	Yen Avenue 2	ear Amount 020 401,20 401,20	Amount in Study 0 401,200	Life Cy Amount Amount	/(Revenues)  /cle  in Study:	





Page 407 **4 3 83 Number: 20037** 

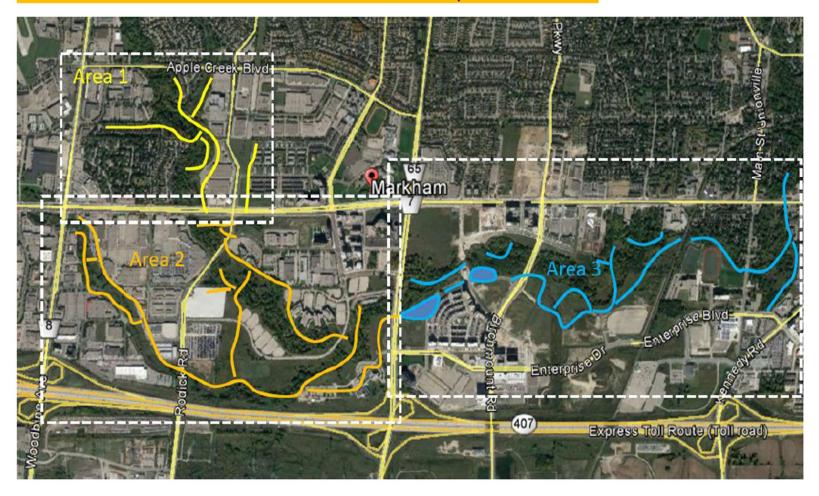
Project Name: Main Change	4 Umianvilla D	and Danamature	dian (Dagian)	Project C	Cost: \$490	5,900
Project Name: Main Stree		Dad Reconstruc	cuon (Design)		Repair/Replac	ce
Commission: <u>Development</u>	t Services		1	Useful Life:	0 Pre Ar	proval:
Department: Engineering			Category:	Major	1	1
Project Mgr: Alain Cachol			Cost Validation:		r review	
	2 3 2 4		Requirement Validation:			
5 🗌	6□ 7□ 8□		1			
DETAILED DESCRIPTION	`				11.1.0	
Retain a consultant to prepare Master Plan.	and finalize an u	pgraded design of	Historic Main Street Unionv	ille in compli	ance with the St	reetscape
viastor i idii.						
		G C	0.0			
BUILDING MARKHAM'S	FUTURE TOG	ETHER: Safe	& Sustainable Community			
PROJECT COSTS (\$)	2020	Future Phases	NOTES			
			The existing streetscaping			
Cost/Quote:	0	2,000,000	completion of the Union the streetscaping be updated			
Internal Charges:	39,000	183,000	2020 - 2022. Future phase			
External Consulting:	450,000	0	other components will be	determined b	ased on consult	ant's design.
Sub Total:	489,000	2,183,000				
HST Impact:	7,920	35,200				
Total Project Cost:	496,900	2,218,200				
SOURCE(S) OF FUNDING	(\$)		Components			T 4
Funding Type	<u>Budget</u>				<b>TOTAL</b>	<u>Future</u> <u>Phases</u>
Non-DC Growth	496,900	0	0 0	0	0	2,218,200
TOTAL FUNDING	496,900				0	2,218,200
ODED A TING DUDGET IN	Pe.	rsonnel Non	Personnel Revenues	Expenditur	res/(Revenues)	
OPERATING BUDGET IM	IPACI	\$0	\$0 \$0		\$0	
	<u>LS</u>					
DCA/LIFE CYCLE DETAI						
DCA/LIFE CYCLE DETAI DCA	·		Amount in	<u>Life (</u>	<u>Cycle</u>	
		Y	Year Amount Study		_	
<u>DCA</u>		Y		— Amou	nt in Study:	
<u>DCA</u>		Y		— Amou	nt in Study:	
<u>DCA</u>			Year Amount Study	— Amou	nt in Study:	



Page 409 4f **485** 

<u> Viarkham</u>						: 2	0038
Project Name: <b>Markham</b>	. Cantua Tuoila	Phage 1 (Constr	mation)	I	Project Cost:	\$96	5,000
		Fliase I (Collsur	uction)		New	Asset/E	xpansion
Commission: Developme	nt Services			Usefu	ıl Life: 0	Pre Aı	pproval:
Department: Engineering			(	Category: Ma			
Project Mgr: Alberto Lin	n			alidation: Rec			
Ward(s): $CW \square 1 \square$	2 □ 3 🗸 4 □		Requirement V			otos)	
5 🗆	6 7 8		Requirement V		ler(specify in iv	oles)	
ETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):					
ansportation infrastructure alley. Phase 1 is an approxetailed design is being fina UILDING MARKHAM'S	kimately 800m sect lized.	tion on the north sid		ver from Ward			
ROJECT COSTS (\$)	2020	Future Phases	NOTES The feasibility s	study for the tr	ails system on N	Markham	Centre is
Cost/Quote:	800,000	10,256,159	complete. The				
Internal Charges:	100,000	843,874	completed by Q				
External Consulting:	50,000	2,602,770	be determined upermits may be				
Sub Total:	950,000	13,702,803	detailed design	is included. Th			
HST Impact:	14,960	226,317	features as well				
Total Project Cost:	965,000	13,929,100					
	7 (h)		Compone	nts			Future
OURCE(S) OF FUNDING	<del>ś (\$)</del>						
	Budget		-		]	TOTAL	Phases
nding Type		0	0	0	0	<b>TOTAL</b> 0	
nding Type	Budget	0	0	0			<b>Phases</b> 9,053,91
CA her Internal	<u>Budget</u> 627,250				0	0	<u>Phases</u>
DURCE(S) OF FUNDING Inding Type  CA her Internal  TOTAL FUNDING	8udget 627,250 337,750 965,000	0	0	0	0 0	0 0 0	9,053,91 4,875,18
CA her Internal	8udget 627,250 337,750 965,000	rsonnel Non Pe	orsonnel Reve	onues Ex	0 0 ——————————————————————————————————	0 0 0	9,053,91 4,875,18
EA ther Internal TOTAL FUNDING PERATING BUDGET IN	Budget 627,250 337,750 965,000 Pe	0	orsonnel Reve	0	0 0	0 0 0	9,053,91 4,875,18
CA her Internal TOTAL FUNDING	Budget 627,250 337,750 965,000 Pe	rsonnel Non Pe	orsonnel Rever	enues Ex	0 0 ——————————————————————————————————	0 0 0	9,053,91 4,875,18
Inding Type  CA  her Internal  TOTAL FUNDING  PERATING BUDGET II  CA/LIFE CYCLE DETA	Budget 627,250 337,750 965,000 Pe	rsonnel Non Pe	orsonnel Rever	onues Ex	0 0 ——————————————————————————————————	0 0 0 0 evenues)	9,053,91 4,875,18
cA her Internal TOTAL FUNDING PERATING BUDGET II CA/LIFE CYCLE DETA DCA Name Hard - Studies - City Wide	Budget  627,250  337,750  965,000  Pe  MPACT  ILS	rsonnel Non Pe \$0 \$	orsonnel Reve	onues Ex	0 0 penditures/(Response) \$0  Life Cycle Amount in State Sta	0 0 0 evenues)	9,053,91 4,875,18
nding Type  CA  her Internal  TOTAL FUNDING  PERATING BUDGET II  CA/LIFE CYCLE DETA  DCA  Name	Budget  627,250  337,750  965,000  Pe  MPACT  ILS	rsonnel Non Pe \$0 \$	rsonnel Reve 0 \$ An	enues Ex	0 0 ——————————————————————————————————	0 0 0 evenues)	9,053,91 4,875,18

# Markham Centre Greenlands Master Plan Map





Page 413 4f #89

MARKHAM	2020 PROJ	ECT FUNDIN	VG REQUE	EST FORM	Number:	2	0039
Project Name: Markham	Contro Troils	Phase 2 (Design)		P	roject Cost:	\$230	0,500
-		Fliase 2 (Design)			New A	sset/Ex	xpansion
Commission: Developmen				Usefu	l Life: 0	Pre Ar	proval:
Department: Engineering				Category: Ma	ior	1	1
Project Mgr: Alberto Lin				Validation: Rec			
	2 □ 3 ✔ 4 □				er(specify in Not	es)	
5 🗆	6 7 8		Troquitonion,		or(specify in res		
DETAILED DESCRIPTIO		· · · · · · · · · · · · · · · · · · ·					
The Markham Centre Trails processes of the trails on Road.  BUILDING MARKHAM'S	Markham Centre.	This location is on th	•	he Rouge Rive			-
			,				
PROJECT COSTS (\$)	2020	<b>Future Phases</b>	<u>NOTES</u>				
Cost/Quote:	0	9,665,390		th of phase 2 is	830m. ses is about 15Kn	n	
Internal Charges:	27,000	867,783	Total trail leng	in or other phas	ies 13 doodt 151 <b>x</b> 11		
External Consulting:	200,000	3,883,171					
Sub Total:	227,000	14,416,344					
HST Impact:	3,520	238,455					
Total Project Cost:	230,500	14,654,800					
SOURCE(S) OF FUNDING	<del>G</del> (\$)		Compone	ents			E-4
Funding Type	Budget				<u>T(</u>	<u>)TAL</u>	<u>Future</u> <u>Phases</u>
DCA	149,825	0	0	0	0	0	9,525,620
Other Internal	80,675	0	0	0	0	0	5,129,180
TOTAL FUNDING	230,500					0	14,654,800
OPERATING BUDGET IN	MPACT Per	rsonnel Non Pers	sonnel Rev	enues Exp	penditures/(Rev	enues)	
012111111111111111111111111111111111111	·	\$0 \$0	\$	60	\$0		
DCA/LIFE CYCLE DETA	<u>ILS</u>						
<u>DCA</u>		<b>V</b>		mount in	Life Cycle		
Name Hard - Studies - City Wide	Pika Langs on Cit	Year	149,825	Study 11,325,356	Amount in Stu	dy:	
and Developers	- DIKE LAHES OH CH	y, regional	149,823	11,323,330	Amount Incl H	ST	
TOTAL FUNDING			149,825	11,325,356	Year in the stu	ıdy	

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 415 of <b>2</b> 8

gnals - Kir	kham/New			U Category:	seful Life: Major	-	et/Expansion
						30 Pro	e Approval:
3 □ 4 □							
3 4 4				category.	1114,01		
3 4 4			Cost '	Validation:	Recent awa	rde	
		R	equirement V	-			
7✔8□		K	equirement	vandation.	Legislative	compitance	
et legislative ard to be bef	requirement ore end of 20	s, as per the 020. Constr	e Accessibili ruction to co	ty for Ontar mmence in s	ians with Di		•
20	E 4 DI	N	OTES				
	<u>Future Ph</u>	<u>Iases</u> In	tersection m				
		_	ovision of T	raffic Signa	ls. Ongoing	O&M costs	is \$3k.
		0					
35,000		0					
38,788		0					
5,283		0					
44,100		0					
			Compon	ents			— E4
<u>Budget</u>						TOTA	Future AL Phases
0		0	0	0	(	)	0 0
344,100		0	0	0	(	)	0 0
344,100							0 0
Per Per	rsonnel N	Non Persor	nnel Rev	enues	Expenditu	res/(Revenu	es)
<u>0                                    </u>	\$0	\$3,000		\$0	\$3	3,000	
		<b>X</b> 7			<u>Life</u>	Cycle	
mtamasaatan Da	doctrion	Year		•	- Amou	nt in Study:	
meresecton Pe	destrian		344,100	1,/34,/		nt Incl HST	
			344,100	1,754,72	20		
ain if there is	a change in	the wear an	d/or cost				
	administratio et legislative ard to be bef  FURE TOGI  20 65,170 38,618 35,000 38,788 5,283 44,100  Budget  0 344,100  Per	Et legislative requirement ard to be before end of 20  FURE TOGETHER:  20 Future Ph 65,170 38,618 35,000 38,788 5,283 44,100  Budget  0 344,100  344,100  Personnel N	Administration for new traffic signals et legislative requirements, as per the ard to be before end of 2020. Construct CURE TOGETHER: Safe & Sust	Compone	Components   Safe & Sustainable Community	Components   Components	Components   Com



Page 417 **4 23 Number: 20041** 

Project Name:	Pedestrian Accessibility Improvements	Program_Phase 6 of 7	<b>Project Cost:</b>		\$601,200	
		1 Togram-1 hase 0 01 7		New	Asset/Expansion	
	Development Services	J	Jseful Life:	15	Pre Approval:	
Department: Project Mgr:		Category:	Minor			
Ward(s):	 CW □ 1□ 2□ 3□ 4 <b>☑</b>	Cost Validation:				
	5 G G 7 Ø 8 Ø	Requirement Validation:	Other(speci	fy in No	otes)	

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

This is phase 6 of 7 of implementation of pedestrian accessibility improvements at existing signalized intersections of Yorktech/Addiscott/Bodrington, Esna Park Drive/IBM Access, Alden/Bentley, Bullock/Loblaws, and Golden/Fonda. The project is construction only (designs complete). Proposed improvements include the provision of accessible pedestrian signal (APS) stations, modifications to existing signal infrastructure, improvements to sidewalk/crosswalk alignments, tactile sidewalk ramps and enhanced "zebra" crosswalks. Since 2012, 47 signalized intersections have received accessibility improvements through this program.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	521,500	735,000
Internal Charges:	70,537	84,150
External Consulting:	0	0
Sub Total:	592,037	819,150
HST Impact:	9,178	12,936
Total Project Cost:	601,200	832,100

#### **NOTES**

As per the Accessibility Improvements standards in Section 80.21 through Section 80.31 of Ontario Regulations 191/11. The AODA (Accessibility for Ontarians with Disabilities Act) requires that signalized intersections be compliant by Jan 1, 2025. Increased traffic and pedestrian volumes at these intersections is also triggering the need for these improvements.

This project will improve pedestrian safety at 5 intersections and encourage active transportation. Future Phase 7 may potentially consist of 5 intersections.

SOURCE(S) OF FUNDING	<u>G (\$)</u>	Components					
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
DCA	390,780	0	0	0	0	0	540,865
Non-DC Growth	210,420	0	0	0	0	0	291,235
TOTAL FUNDING	601,200				=	0	832,100

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OI DAMINIO DEDGET IVII NET	\$0	\$0	\$0	\$0	

#### DCA/LIFE CYCLE DETAILS **DCA** Amount in Life Cycle Year **Amount** Study Name Amount in Study: Hard - Special Projects - City Wide - Travel Demand 390,780 3,331,694 Management Amount Incl HST TOTAL FUNDING 390,780 3.331.694 Year in the study DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

	Pedestrian Accessibility Improvement Pr	ogram	
# of Locations	Intersection	Project Year	Status
	PHASE 1		
1	Apple Creek Boulevard & Town Centre Boulevard / Hollingham Road	2011	Completed
2	Bullock Drive & Centennial GO Station	2011	Completed
3	Bullock Drive & Markville Road	2011	Completed
4	Bullock Drive & Snider Drive	2011	Completed
5	Green Lane & Thornhill Square Access	2011	Completed
6	John Street & Bayview Fairways Drive	2011	Completed
7 8	John Street & west of Dawn Hill Trail (Mid-block pedestrian signal)	2011	Completed
9	John Street & Porterfield Crescent  Main Street Markham & Ramona Boulevard	2011	Completed Completed
10	Town Centre Boulevard & Cox Boulevard	2011	Completed
10	PHASE 2	2011	Completed
1	Birchmount Road & Harvest Moon Drive / Risebrough Circuit	2012	Completed
2	Birchmount Road & Highgate Drive / Risebrough Circuit	2012	Completed
3	Denison Street & Townley Avenue	2012	Completed
4	YMCA Blvd & Rivis Road	2012	Completed
5	Green Lane & Willowbrook Road / Aileen Road	2012	Completed
6	Henderson Ave & Proctor Avenue / Glen Cameron Road	2012	Completed
7	John Street & Bishops' Cross Park (formerly John/Porterfield)	2012	Completed
8	John Street & Steelcase Road West	2012	Completed
9	Esna Park Drive & Denison Street	2012	Completed
10	Alden Road & Hood Road / 14 <sup>th</sup> Avenue	2012	· ·
10	PHASE 3	2012	Completed
1	Denison Street & Featherstone Avenue	2013	Completed
2	Denison Street & Featherstone Avenue  Denison Street & Old Kennedy Road / Fresno Court	2013	Completed
3	Enterprise Boulevard & Main Street Unionville	2013	Completed
4	Enterprise Boulevard & Rivis Road	2013	Completed
5	Rodick Road & Calvert Rd	2013	Completed
6	Middlefield Road & Highglen Avenue	2013	Completed
7	Rodick Road & Apple Creek Boulevard	2013	Completed
8	Denison Street & Gorvette Drive / Milliken Meadows Drive	2013	Completed
9	Denison Street & Middlefield Road	2013	Completed
	PHASE 4		Completed
1	Apple Creek Boulevard & John Button Boulevard / Crispin Court	2014	Completed
2	Denison Street & Aldergrove Drive	2014	Completed
3	Denison Street & Brimley Road	2014	Completed
4	Denison Street & Coppard Avenue	2014	Completed
5	Denison Street & Hillcroft Drive	2014	Completed
6	Denison Street & Teddington Avenue	2014	Completed
7	Brimley Rd & Highglen Ave	2014	Completed
	PHASE 5	,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1	Birchmount Road & McNabb Street / Micro Court	2016	Completed
2	Denison Street & Victoria Park Avenue	2016	Completed
3	Denison Street & Coxworth Street	2016	Completed
4	Commerce Valley Drive West & South Park Road	2016	Completed
5	Rodick Road & Hollingham Road / John Button Boulevard	2016	Completed
6	Denison Street & Clayton Drive	2016	Completed
	PHASE 6		
1	Esna Park Drive & IBM Access	2020	2020 Budget Request
2	Alden Road & Bentley Street	2020	2020 Budget Request
3	Bullock Drive & Loblaws Access	2020	2020 Budget Request
4	Yorktech Drive & Addiscott Court	2020	2020 Budget Request
5	Golden Avenue & Fonda Road	2020	2020 Budget Request
	PHASE 7		
1	John Street & Aileen Road	2024	"Phase 7" locations were
2	John Street & John Street Service Road	2024	previously identified to be
3	Main St Markham & Parkway Avenue/Bullock Drive	2024	completed through future
4	Old Kennedy Road & Aldergrove Drive	2024	development applications or
5	Copper Creek Drive & Bernbridge Road	2024	capital works.
6	Middlefield Road & Elson Street	2024	



Page 421 4f 287

Number:	20042
rumber.	200-12

					Project (	Cost: \$1	156,600
Project Name: Rouge Va	alley Trail (Kenn	edy Road North	) – Design			New Asset	/Expansion
Commission: Developme	ent Services			Use	ful Life:		Approval:
Department: Engineerin				Category: M		0 110	ripprovar.
Project Mgr: Alain Cach	nola		Cost			fr. in Motos)	
Ward(s): $CW \square 1 \square$	2 □ 3 ☑ 4 □			Validation: O		•	
5 🗆	6 7 8		Requirement V		mer(speci	ly iii Notes)	
DETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):					
This project is to design a ne- pring season, sections of the ccess the trail by providing Construction is scheduled for BUILDING MARKHAM	e Rouge Valley Tra gan alternate route to or 2021.	il is expected to be hat will connect to	under water. Th	is proposed tra s of the Rouge	ail connect	tion will allov	v trail users to
JULDING MARKHAM	STOTORE TOO	ETHEK.					
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	NOTES Region of Yor	k has an annu	al grant pr	Ogram that pr	ovides funding
Cost/Quote:	20,000	200,000	for trail systen				
Internal Charges:	19,200	27,000					nancial burden
External Consulting:	115,000	15,000	to the City. The funding.	e project cost	shown do	es not include	any Regional
Sub Total:	154,200	242,000	runding.				
HST Impact:	2,376	3,784					
Total Project Cost:	156,600	245,800					
=		242,000					
OURCE(S) OF FUNDING	<u>G (\$)</u>		Compon	ents			- Future
unding Type	<b>Budget</b>					TOTA	
CA	101,790	0	0	0	C	) (	159,770
on-DC Growth	54,810	0	0	0	C	) (	86,030
TOTAL FUNDING	156,600						245,800
OPERATING BUDGET I	MPACT Per	rsonnel Non Pe	ersonnel Rev	venues E	xpenditui	res/(Revenue	es)
		\$0	60	\$0		\$0	
CA/LIFE CYCLE DETA	AILS						
<u>DCA</u>				Amount in	<b>Life</b>	Cycle	
Name	D'1 I C'1	Ye		Study	Amou	nt in Study:	
Hard - Studies - City Wid and Developers	ie - Bike Lanes on Ci	ry, Regional	101,790	11,325,356		nt Incl HST	
TOTAL FUNDING			101,790	11,325,356		in the study	
DCA and/or Life Cycle	· Explain if there is	a change in the ve	ar and/or cost				
Deri una, or Eme eyele	2. Explain if there is	u change in the ye	ur una, or cost.				



Page 423 **4 9 0** 

Year in the study

MARKHAM	2020 PROJ	ECT FU	INDIN	VG REQ	UEST FO	ORM N	umber:	20	043		
	0 E	-1 C4 J 1	N / T =1	II. C	J Dl	Project	Cost:	\$443	,000		
Project Name: Servicing		tai Study- 1	Markvi	He Second	iary Pian		Studie	s/Pilot P	rograms		
Commission: Developmen					Ţ	Useful Life:	0	Pre App	proval:		
Department: Engineering					Category:	Maior		11			
Project Mgr: Nhat-Anh Nguyen				C	Cost Validation:		ify in Not	tes)			
.,	2 3 4 4				ent Validation:						
5 🗌	6 7 8										
ETAILED DESCRIPTION The Servicing and Environm	· · · · · · · · · · · · · · · · · · ·										
rea. The deliverable include rategy to help guide develo cluding detailed direction foace.  EUILDING MARKHAM'S	pment and develop or land use, built t	oment decisi form, densiti	ons. The es, infras	outcome of	of the Secondary ansportation, co	y Plan study	will be po	olicies fo	r the area		
ROJECT COSTS (\$)	2020	Future Pl	nases	NOTES							
Cost/Quote:	400,000	1 40410 11	0	Undertaking a Servicing and Environmental Study for the secondary plan will ensure an efficient municipal infrastructure							
Internal Charges:	36,000		0	network to support development in the secondary plan area. The							
External Consulting:	0		0	Study cost breakdown based on recent awards is generally as follows:							
Sub Total:	436,000	-	0	Servicing Study for Markville Secondary Plan - \$150,000							
HST Impact:	7,040		0	Environmental and Storm Water Management Study for Markville							
Total Project Cost:	443,000		0		y Plan = \$ 250,0 to an additional		approval				
OURCE(S) OF FUNDING	<del>\$ (\$)</del>			Com	ponents				E 4		
unding Type	Budget						<u>T(</u>	<u>)TAL</u>	Future Phases		
CA	443,000		0	0	0		0	0	0		
TOTAL FUNDING	443,000							0	0		
	Pe Pe	rsonnel 1	Non Pers	sonnel	Revenues	Expenditu	res/(Rev	enues)			
OPERATING BUDGET IN	<u>MPACT</u>	\$0	\$0		\$0	•	\$0	,			
CA/LIFE CYCLE DETA	ILS										
<u>DCA</u>			**		Amount in	<u>Life</u>	<u>Cycle</u>				
Name Hard - City Wide - Trans.,	Compains Envis	C 1:	Year			— Amo	unt in Stu	dv.			
maru - City wide - Irans.,				443,0	000 10,602,0	100		uj.			

443,000

10,602,000

Update etc.

TOTAL FUNDING

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 425 **4f 388** 

Number:	20044
Number:	20044

			Project Cost:		\$1,500,000	
Project Name:	Sidewalk Program (Construction)			New	Asset/Expansion	
Commission:	Development Services	Ţ	Useful Life:	0	Pre Approval:	
Department:	Engineering			Ü	11011pprovan	
Project Mgr:	Mark Siu	Category:	Major			
Ward(s):	CW ✓ 1□ 2□ 3□ 4□	Cost Validation:	Other(speci	fy in N	otes)	
	5 6 7 8	Requirement Validation:	Other(speci	fy in N	otes)	
	3 0 7 8					

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

To construct new sidewalks in various areas within the City to provide pedestrian access and link to the City's sidewalk network. The design of these sidewalk sections will be completed by Q4 2019. Locations include: 1) Laidlaw Blvd – Bullock Dr to Hwy 7, 2) 14th Avenue – Woodbine to Rodick Rd, 3) Commerce Valley Dr East – Minthorn Blvd to Leslie Ave, 4) Highglen Avenue – Kennedy Rd to Noble St, 5) Grandview Ave – Dudley to Henderson Ave, 6) Dudley Ave – Meadowview Ave to Grandview Ave, 7) Lee Ave – Kennedy Rd to Brimley Rd, 8) Minthorn Blvd – Commerce Valley Drive to 358 Minthorn Blvd, 9) Scriberras Rd – Ferrah St to Lichfield Rd, 10) Scriberras Rd – Fred Varlet Rd to 85 m north of Fred Varley Rd, 11) Donald Cousens Pkwy – Major Mac. Dr E to 150m south of Major Mac., 12) Yorktech Dr – 232 Yorktech Dr to Woodbine Ave.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & St

Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	1,272,000	0
Internal Charges:	127,949	0
External Consulting:	76,320	0
Sub Total:	1,476,269	0
HST Impact:	23,730	0
Total Project Cost:	1,500,000	0

### **NOTES**

This request is for the construction of new sidewalks for 2020. Estimated length of sidewalk is approximately 5.6 kms. Final sidewalk locations are subject to change upon Director's approval based on design and pending property availability, utility relocations and other site constraints.

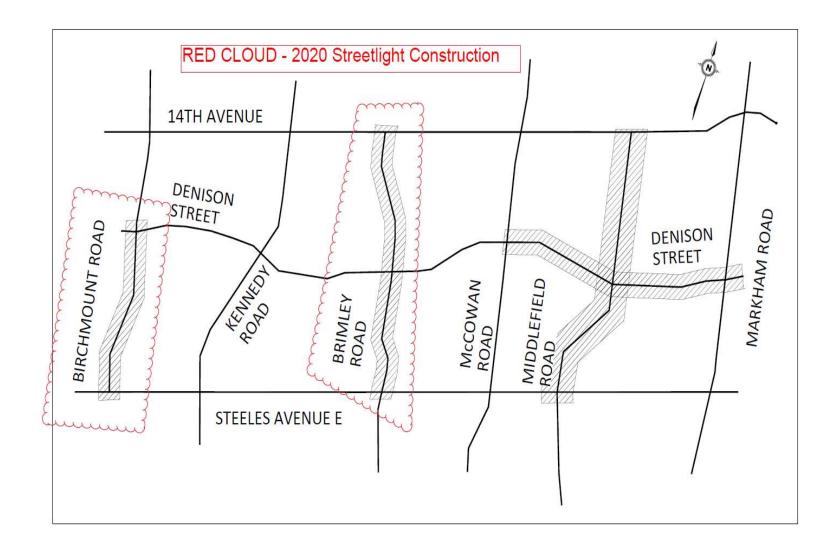
SOURCE(S) OF FUNDING	G (\$)	Components					
Funding Type	<b>Budget</b>					TOTAL	<u>Future</u> <u>Phases</u>
DCA	1,500,000	0	0	0	0	0	0
TOTAL FUNDING	1,500,000				=	0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
OI DINITING BODGET IMITACE	\$0	\$0	\$0	\$0

Page 426 **4f 352** 

### **DCA/LIFE CYCLE DETAILS**

DCA N	Year	A Amount	mount in	<u>Life Cycle</u>
Name Hard - Miscellaneous new sidewalks	1 ear	1,500,000	Study 2,019,500	Amount in Study:
TOTAL FUNDING		1,500,000	2,019,500	Amount Incl HST
				Year in the study





Number: 20045

D. '. AM			Project C	Cost:	\$519,500
Project Name:	Sidewalk Program (Design)			New	Asset/Expansion
	Development Services		Jseful Life:	0	Pre Approval:
Department: Project Mgr:		Category:	Minor		
0 0	CW ✓ 1 □ 2 □ 3 □ 4 □	Cost Validation:			
	5 🗆 6 🗆 7 🗆 8 🗆	Requirement Validation:	Other(speci	ty in No	otes)

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

To complete the detailed design for new sidewalks in various areas within the City to provide pedestrian access and links to the City's sidewalk network. The number of locations to be designed for this budget will be based on the information provided to and approved by DSC in November 2018. 1)Aileen Rd – John Street to Green Lane, 2) Henderson Ave – Steeles Ave to Grandview Ave, 3) Willowdale Blvd - Steeles Ave to Grandview Ave, 4)Allstate Pkwy – Centurian Dr to North of Valleywood Dr, 5)Frontenac Dr – Hwy 7 to Centurian Dr, 6) Hazelton Ave – James Joyce Dr to Rinas Ave, 7)Valleywood Dr – Allstate Blvd to Renfrew Dr, 8)Windridge Dr – Robinson St to Hwy 7, 9)14th Ave – 100m west of Markham Rd to Markham Rd, 10) Cochrane Dr – Perth Ave to Cochrane Dr, 11) Commerce Valley Dr W – Leslie Ave to Hwy 7, 12)Lanark Rd – Cochrane Dr to Woodbine Ave.

**BUILDING MARKHAM'S FUTURE TOGETHER:** Safe &

Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	0	0
Internal Charges:	57,480	0
External Consulting:	454,000	0
Sub Total:	511,480	0
HST Impact:	7,990	0
Total Project Cost:	519,500	

NOTES

Based on estimates from previous projects. An estimated 7.0km

will be designed as part of this request. Unit cost is consistent with recent award plus inflation. These locations are subject to change upon Director's approval based on design and site conditions.

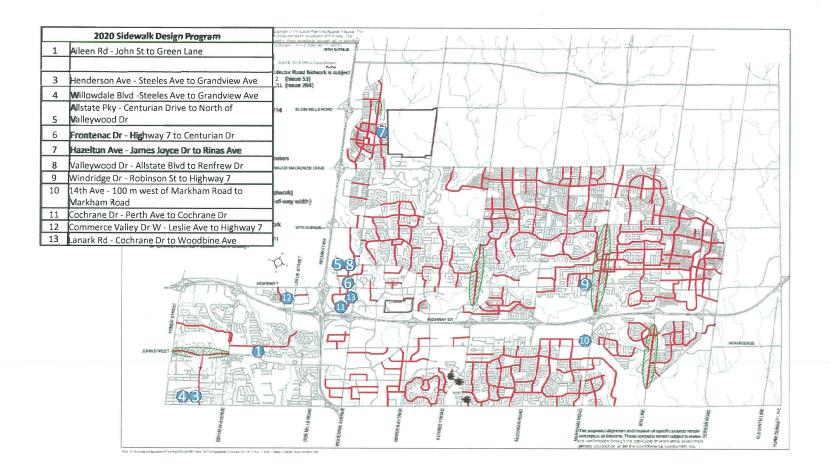
SOURCE(S) OF FUNDING	<del>(</del> \$)		Compon	ents			Entuno
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
DCA	519,500	0	0	0	0	0	0
TOTAL FUNDING	519,500				=	0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
OI DINITING BODGET IMITACE	\$0	\$0	\$0	\$0

DCA/LIFE CYCLE DETAILS

Page 430 **4f 36** 

<u>DCA</u>		A	mount in	<u>Life Cycle</u>
Name	Year	Amount	Study	Amount in Study:
Hard - Miscellaneous new sidewalks		519,500	2,019,500	
TOTAL FUNDING		519,500	2,019,500	Amount Incl HST
		=====		Year in the study





Page 433 <b>4f 39</b>

Number: 20046 **Project Cost:** \$76,300 Project Name: Smart Commute Markham-Richmond Hill Studies/Pilot Programs Commission: Development Services Pre Approval: Useful Life: Department: Engineering Category: Annual Project Mgr: Fion Ho Cost Validation: Other(specify in Notes) CW ✓ 1 □ 2 □ 3 □ 4 □ Ward(s): Requirement Validation: Other(specify in Notes) **DETAILED DESCRIPTION (SCOPE OF PROJECT):** Markham is a funding partners of Smart Commute Markham-Richmond Hill. Other funding partners are Metrolinx, York Region and Town of Richmond Hill. Smart Commute Markham-Richmond Hill offers services and programs to local employers and their employees to reduce use of private cars in commuting to and from work. Alternative modes includes carpooling, cycling, transit, telework, emergency ride home program and more. **BUILDING MARKHAM'S FUTURE TOGETHER:** Safe & Sustainable Community NOTES **PROJECT COSTS (\$)** 2020 **Future Phases** This is an annual program and will be requested each year. A Cost/Ouote: 76,300 0 restructuring of this program is being discussed with the funding partners. Staff recommends the same level of funding be provided **Internal Charges:** 0 0 by Markham. **External Consulting:** 0 0 Sub Total: 76,300 0 **HST Impact:** 0 0 **Total Project Cost:** 76,300 0 SOURCE(S) OF FUNDING (\$) **Components Future Funding Type TOTAL Phases Budget** DCA 0 0 0 0 0 0 76,300 **TOTAL FUNDING** 76,300 0 0 Non Personnel Expenditures/(Revenues) Personnel Revenues OPERATING BUDGET IMPACT \$0 \$0 \$0 \$0 DCA/LIFE CYCLE DETAILS **DCA** Amount in Life Cycle Year Amount Study Amount in Study: Hard - Special Projects - City Wide - Travel Demand 76,300 3,331,694 Management Amount Incl HST TOTAL FUNDING 76,300 3,331,694 Year in the study DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 435 **◄** 2020 PROJECT FUNDING REQUEST FORM Number: 20047 **Project Cost:** \$713,400 Project Name: Staff Salary Recovery Studies/Pilot Programs Commission: Development Services Pre Approval: Useful Life: Department: Engineering Category: Annual Project Mgr: Ali Hasan Cost Validation: Other(specify in Notes) CW ✓ 1 □ 2 □ 3 □ 4 □ Ward(s): Requirement Validation: Other(specify in Notes) **DETAILED DESCRIPTION (SCOPE OF PROJECT):** Cost recovery for engineering staff on projects related to Region of York or Metrolinx projects or other Jurisdictions. The list of projects are as follows: Metrolinx Projects, Steeles Grade Separation, GO Expansion, Metrolinx RTP, Region of York EA for Kennedy Road, McCowan Road, 16th Avenue and Warden Avenue, EA Review for North Markham Development (Bridges), Region of York Design for the Hwy 404 Mid-block Crossing at 16th Avenue, Active Transportation Plan, Smart Commute and Regional Road Acceleration program. **BUILDING MARKHAM'S FUTURE TOGETHER:** Safe & Sustainable Community NOTES **PROJECT COSTS (\$)** 2020 **Future Phases** Staff salary recovery equivalent to 7 FTE staff Cost/Quote: 0 0 0 **Internal Charges:** 713,400 **External Consulting:** 0 Sub Total: 713,400 0 **HST Impact:** 0 **Total Project Cost:** 713,400 0 SOURCE(S) OF FUNDING (\$) **Components Future Funding Type Budget** TOTAL **Phases** DCA 0 0 0 0 0 0 713,400 TOTAL FUNDING 713,400 0 0 Personnel Non Personnel Revenues Expenditures/(Revenues) **OPERATING BUDGET IMPACT** \$0 \$0 \$0 \$0 **DCA/LIFE CYCLE DETAILS DCA** Amount in Life Cycle Year Amount Name Study Amount in Study: Hard - City Wide - Trans., Servicing, Enviro., Cycling, 713,400 10,602,000 Traffic Calming, Noise, Subwatershed, Erosion Study Amount Incl HST Update etc. Year in the study

# TOTAL FUNDING 713,400 10,602,000 DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 437	43

<u>VIARKHAM</u>	~	Nι	ımber:	20048
Project Name: Streetlight Program (Construction)		Project (		\$764,800
Commission: Development Services  Department: Engineering  Project Mgr: Peter Chan  Ward(s): CW 1 2 3 4 5 5 6 7 8	Category: Cost Validation: Requirement Validation:	Internal pee	0 er review	
DETAILED DESCRIPTION (SCOPE OF PROJECT):  To provide new streetlight infrastructure to areas that require streetlight infrastructure in areas that require streetlight infrastructure in areas that require streetlight infrastructure in a streetlight in a street	reetlighting upgrade. e & Sustainable Community			
PROJECT COSTS (\$) 2020 Future Phase	NOTES Based on estimates from	previous proj	ects. Lo	cations for

<u>2020</u>	<b>Future Phases</b>
634,000	0
81,000	0
38,000	0
753,000	0
11,827	0
764,800	0
	634,000 81,000 38,000 753,000 11,827

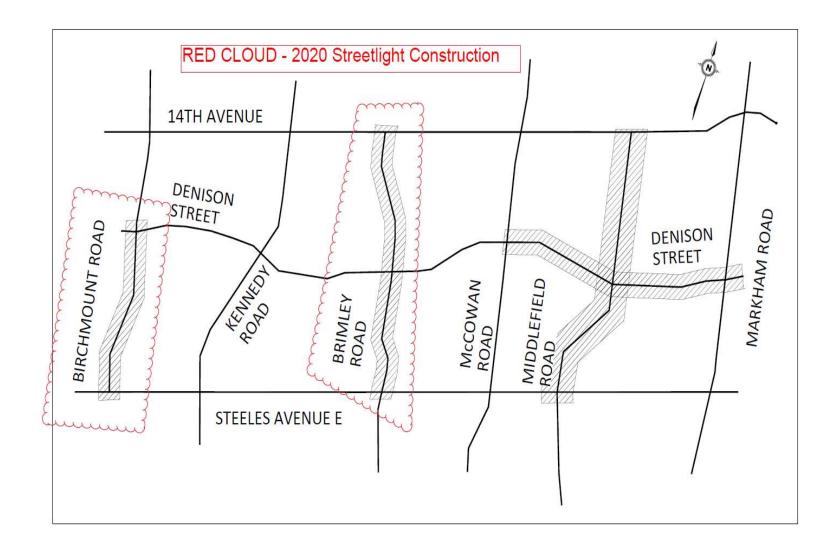
Based on estimates from previous projects. Locations for construction are Birchmount - Steeles to Denison and Brimley - Steeles to 14th Avenue. Note that the locations are tentative and subject to change based on design and site conditions. Staff to be able to revise location if required provided that the budget is not impacted.

SOURCE(S) OF FUNDING	(\$)		Compon	ents			Eutumo
Funding Type	Budget					TOTAL	<u>Future</u> <u>Phases</u>
DCA	764,800	0	0	0	0	0	0
TOTAL FUNDING	764,800				_	0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

### DCA/LIFE CYCLE DETAILS

<u>CA</u> nme	Year	Amount A	mount in Study	<u>Life Cycle</u>
rd - Illumination - City-wide Illumination Requires		764,800	3,344,000	Amount in Study:
TAL FUNDING		764,800	3,344,000	Amount Incl HST
CA and/or Life Cycle: Explain if there is a change in the	e year a	nd/or cost:		Year in the study
and/or Life Cycle: Explain if there is a change in the	e year ai	nd/or cost:		Year in the study
A and/or Life Cycle: Explain if there is a change in the	e year a	nd/or cost:		Year in the study
A and/or Life Cycle: Explain if there is a change in the	e year ai	nd/or cost:		Year in the study





Page	441	<b>4</b>	47

\$175,100

**Number:** 20049

**Project Cost:** 

Project Name: S	treetligh	nting Program (I	Design)			v	=	ΨΞ,υ	,200
							New A	sset/Ex	pansion
Commission: D					Us	eful Life:	0	Pre Ap	proval: $\square$
Department: <u>E</u> Project Mgr: P					Category: 1	Minor			
-				Cost V	/alidation: (	Other(speci	fy in Note	es)	
Ward(s): CV		2 3 4		Requirement V	_				
		6 7 8 8		_	_				
		ON (SCOPE OF P	· · · · · · · · · · · · · · · · · · ·	. 11		Con Tile		C 41	
	_	for new streetlight e lighting levels for			require ligh	ting. The	purpose of	the pr	ogram is to
uniy u design to e		e inglitting to vote for	una proces						
			C. C. O.	G	•.				
BUILDING MAI	RKHAM	'S FUTURE TOG	ETHER: Safe &	Sustainable Comm	unity				
PROJECT COST	(\$) 2T	2020	Future Phases	NOTES					
		<u> </u>		Based on estim					
	Quote:	0	0	detailed design are currently be					
Internal Cl External Cons	_	22,500 150,000	0	later date. Loca	ations to be o	compared v			
	-			determine if lig	thting is requ	iired.			
	Total:	172,500	0						
Total Project	mpact:	2,640							
Total Troject	i Cusi.	175,100	0						
OURCE(S) OF 1	FUNDIN	G (\$)		Compone	ents				
unding Type		<u>Budget</u>					<u>TO</u>	TAL	<u>Future</u> <u>Phases</u>
CA		175,100	0	0	0	(	)	0	0
TOTAL FUND	ING	175,100						0	0
		Per	rsonnel Non Pe	rsonnel Revo	enues ]	Expenditu	res/(Reve	nues)	
OPERATING BI	UDGET 1	MPACT			60	<b>F</b>	\$0		
OCA/LIFE CYC	LE DETA	AILS	7	- 4	,,,		ΨΟ		
<u>DCA</u>				A	mount in	Life	Cycle		
Name			Yea	ar Amount	Study	Δ μοι	int in Stud	w.	
	•	-wide Illumination R	equires	175,100	3,344,000	) - Amou	nt Incl HS	• =	
TOTAL FU	NDING			175,100	3,344,000	)			
DG1 1/ 1		<b>5</b> 1		•		- rear	in the stu	uy	
DCA and/or I	Life Cycle	e: Explain if there is	a change in the yea	ar and/or cost:					



Page 443 **4**5

<b>V</b> <u>ARKHAM</u>				Numbe	er: 20	0050
Project Name: <b>Traffic As</b>	ssat Danlagamou	nt		<b>Project Cost:</b>	\$196	,900
	<u>-</u>	111		Rej	pair/Replac	e
Commission: Developme:			Ţ	Useful Life:	Pre Ap	proval:
Department: Engineering			Category:	Annual	1	•
Project Mgr: Justin Chin			Cost Validation:	Recent awards		
	2 3 4 0		Requirement Validation:	Condition assessi	ment	
5 L ETAILED DESCRIPTIO	6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	DO HEGEN				
	t of various traffic	signal system comp	c Life Cycle Reserve Study a ponents and speed monitorin			
ROJECT COSTS (\$)	2020	Future Phases	NOTES			
	<u>2020</u> 193,500	<u>ruture Phases</u> 0	Assets are replaced based			
Cost/Quote: Internal Charges:	193,300	0	30 years) and condition a pedestrian push buttons a			
External Consulting:	0	0	replacements at 20 interse	ections (\$101k); Ti	raffic signal	l heads at 1
Sub Total:	193,500	0	intersection (\$10k); Two Emergency vehicle pre-en			
HST Impact:	3,406	0	5 locations, respectively	(\$33k). Amount is		
Total Project Cost:	196,900	0	2019 Life Cycle Reserve	Study update.		
URCE(S) OF FUNDING	· · · · · · · · · · · · · · · · · · ·		Components			
	· · · · · · · · · · · · · · · · · · ·		Components		TOTAL	Future Phases
nding Type	G (\$)	0	Components  0 0	0	<b>TOTAL</b> 0	<u>Phases</u>
erating Funded Life Cycle	G (\$) Budget		-	0		Phases
perating Funded Life Cycle  TOTAL FUNDING	Budget  196,900  196,900	0 ersonnel Non P	-	0 Expenditures/(F \$0	0	
unding Type Derating Funded Life Cycle FOTAL FUNDING PERATING BUDGET INC. CA/LIFE CYCLE DETA	Budget  196,900  196,900  Pe	0 ersonnel Non P	0 0 ersonnel Revenues	Expenditures/(F	0	Phases
perating Funded Life Cycle TOTAL FUNDING PERATING BUDGET INCA/LIFE CYCLE DETA DCA	Budget  196,900  196,900  Pe	o ersonnel Non P \$0	0 0  ersonnel Revenues \$0 \$0  Amount in	Expenditures/(F	0 0 Revenues)	Phases
erating Type  TOTAL FUNDING  PERATING BUDGET II  CA/LIFE CYCLE DETA	Budget  196,900  196,900  Pe	o ersonnel Non P \$0	0 0  ersonnel Revenues  \$0 \$0	Expenditures/(F	0 0 Revenues)	<u>Phases</u>
	Budget  196,900  196,900  Pe	o ersonnel Non P \$0	0 0  ersonnel Revenues \$0 \$0  Amount in	Expenditures/(F \$0	0 0 Revenues)	<u>Phases</u>



Page 445 **4f 5**8

(MAININI)					140	umber		031
wa <del>na</del> ta	_				Project (	Cost:	\$88,	900
Project Name: Traffic O	perational Impr	rovements				New	Asset/Ext	pansion
Commission: Developme	nt Services			ī	Useful Life:	0	-	proval:
Department: Engineering	7					U	Pie Ap	provai: —
Project Mgr: David Porre	etta			Category:	-			
Ward(s): $CW \boxed{\bullet} 1$	2□ 3□ 4□			Cost Validation:				
5 🗆	6□ 7□ 8□		Requirei	nent Validation:	Condition a	ssessme	ent	
DETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):						
This project accommodates is operations and safety for all pavement markings for road pedestrians and cyclist safety BUILDING MARKHAM'	users of the City's ways and cycling fag.	transportation netvacilities, and minor	work. Impro	ovements include nd asphalt civil v	sign and traf	ffic cont	trol device	es,
PROJECT COSTS (\$)	2020	E ( DI	NOTES	5				
· · · · · · · · · · · · · · · · · · ·	<u>2020</u>	Future Phases	Budget r	equest includes				
Cost/Quote:	75,000	0		oad/cycling pavo asphalt civil wo		gs (\$40	k), minor	
Internal Charges:	12,593	0	Concrete	asphan civii wo	iks (ψ13k).			
External Consulting:	0							
Sub Total:	87,593	0						
HST Impact:  Total Project Cost:	1,320	0						
	88,900							
SOURCE(S) OF FUNDING	G (\$)		Со	mponents				Endone
Funding Type	<u>Budget</u>					<u>T</u>	OTAL	Future Phases
Гах	88,900	0	0	0	(	)	0	
TOTAL FUNDING	88,900					-	0	-
TOTALTONDAY								
	Per Per	rsonnel Non P	ersonnel	Revenues	Expenditu	res/(Re	venues)	
OPERATING BUDGET I	MPACT	\$0	\$0	\$0		\$0		
DCA/LIFE CYCLE DETA	ILS							
<u>DCA</u>				Amount in	<b>Life</b>	Cycle		
Name		Ye	ear Amou	ınt Study	— Amou	ınt in St	udv:	
						nt Incl l	•	
						in the s		
					rear	in the s	tudy	
DCA and/or Life Cycle	: Explain if there is	a change in the ye	ar and/or co	ost:				
İ								



Page 447 **4f 53** 

<u>I<b>VI</b>ARKHAM</u>							<u></u>		
Duniant Names T		# 1 ·11	C 1	DI	F	Project Co	ost:	\$230,	500
Project Name: Transpor	tation Study – N	1arkville	Secondar	y Plan			Studies	/Pilot Pr	ograms
Commission: Developme	nt Services				Usefi	ıl Life:	-		roval:
Department: Engineering					Category: Ma			- 1- 1-PP	10,411
Project Mgr: Joseph Palr				Cost V	Validation: Oth		v in Note	·c)	
	2 □ 3 🗸 4 □		1		Validation: Oth				
5 🗆	6 7 8		•	requirement		ier (speem.	, 11111010		
<b>DETAILED DESCRIPTIC</b> The Transportation Study wi	•								
secondary plan area. The del transportation system that pr riders.  BUILDING MARKHAM'	iverable include a ovides a more bala	phasing str inced choic	rategy to hel	lp guide plan d	levelopment and all users, includ	d recomm	endation	s for a	
PROJECT COSTS (\$)	2020	Future I		<u>NOTES</u>					
Cost/Quote:	0	<u>r uture r</u>			cil direction to pass. Undertaking				
_					will help ensu				
Internal Charges:	27.000		0   5	secondary plai					. 1
Internal Charges: External Consulting:	27,000 200,000		0	and a transport	ation demand r				
External Consulting:	200,000		0	and a transport to support dev	cation demand relopment in the is generally \$20	se areas.			
	*		$\frac{0}{0}$	and a transport to support dev recent awards	elopment in the	se areas. 7.00,000.	The Stud		
External Consulting:  Sub Total:	200,000			and a transport to support dev recent awards	elopment in the is generally \$20	se areas. 7.00,000.	The Stud		
External Consulting:  Sub Total:  HST Impact:  Total Project Cost:	200,000 227,000 3,520 230,500			and a transport to support dev recent awards	elopment in the is generally \$20 additional FTE	se areas. 7.00,000.	The Stud		ased on
External Consulting:  Sub Total:  HST Impact:  Total Project Cost:  OURCE(S) OF FUNDING	200,000 227,000 3,520 230,500			and a transport to support dev recent awards *Subject to an	elopment in the is generally \$20 additional FTE	se areas. 7.00,000.	The Stud		
External Consulting:  Sub Total:  HST Impact:  Total Project Cost:  SOURCE(S) OF FUNDING	200,000 227,000 3,520 230,500 G (\$)			and a transport to support dev recent awards *Subject to an	elopment in the is generally \$20 additional FTE	se areas. 7.00,000.	The Stud	y cost ba	ased on  Future
External Consulting:  Sub Total:  HST Impact:  Total Project Cost:  SOURCE(S) OF FUNDING  Funding Type  DCA	200,000  227,000  3,520  230,500  G (\$)  Budget  230,500		0 0 0 0 0	and a transport to support deverecent awards *Subject to an	elopment in the is generally \$20 additional FTE	se areas. 7.00,000.	The Stud	TAL	ased on  Future
External Consulting:  Sub Total:  HST Impact:  Total Project Cost:  OURCE(S) OF FUNDING	200,000 227,000 3,520 230,500 G (\$)		0 0 0 0 0	and a transport to support deverecent awards *Subject to an	elopment in the is generally \$20 additional FTE	se areas. 7.00,000.	The Stud	y cost ba	ased on  Future
External Consulting:  Sub Total:  HST Impact:  Total Project Cost:  COURCE(S) OF FUNDING  Cunding Type  DCA  TOTAL FUNDING	200,000  227,000  3,520  230,500  Budget  230,500  230,500	rsonnel	0 0 0 0 0	and a transport to support deverecent awards *Subject to an  Compon	elopment in the is generally \$20 additional FTE ents	se areas. (200,000. (2 approval	The Stud	TAL 0 0	ased on  Future
External Consulting:  Sub Total:  HST Impact:  Total Project Cost:  COURCE(S) OF FUNDING  Cunding Type  DCA  TOTAL FUNDING	200,000  227,000  3,520  230,500  Budget  230,500  230,500	rsonnel \$0	0 0 0 0	and a transport to support deverecent awards *Subject to an  Compon  0	elopment in the is generally \$20 additional FTE ents	se areas. 7, 200,000. 2, approval	The Stud	TAL 0 0	ased on  Future
External Consulting:  Sub Total:  HST Impact:  Total Project Cost:   GOURCE(S) OF FUNDING  Funding Type  DCA  TOTAL FUNDING  OPERATING BUDGET IN  DCA/LIFE CYCLE DETA	200,000  227,000  3,520  230,500  Budget  230,500  230,500  Per		0 0 0 0 0 0	and a transport to support deverecent awards *Subject to an  Compon  0	elopment in the is generally \$20 additional FTE ents	se areas. 7, 200,000. 2, approval	TO TO	TAL 0 0	ased on  Future
External Consulting:  Sub Total:  HST Impact:  Total Project Cost:  COURCE(S) OF FUNDING  Cunding Type  DCA  TOTAL FUNDING  DPERATING BUDGET IND  DCA/LIFE CYCLE DETA  DCA	200,000  227,000  3,520  230,500  Budget  230,500  230,500  Per		0 0 0 0 0 0 Non Perso \$0	and a transport to support deverecent awards *Subject to an  Compon  0	elopment in the is generally \$20 additional FTE ents  0  enues Ex	se areas. 7, 200,000. 2, approval	TO TO	TAL 0 0	ased on
External Consulting:  Sub Total:  HST Impact:  Total Project Cost:  COURCE(S) OF FUNDING  Funding Type  OCA  TOTAL FUNDING  OPERATING BUDGET IND  OCA/LIFE CYCLE DETA  DCA  Name	200,000  227,000  3,520  230,500  Budget  230,500  230,500  Per  MPACT  Per	\$0	0 0 0 0 0 0	and a transport to support deverecent awards *Subject to an  Compon  0  onnel Rev	elopment in the is generally \$20 additional FTE ents  0  enues Ex \$0  .mount in Study	se areas. 7,00,000. 2 approval	TO TO	TAL 0 0 nues)	ased on  Future
External Consulting:  Sub Total: HST Impact: Total Project Cost:  GOURCE(S) OF FUNDING  Funding Type  DCA  TOTAL FUNDING  OPERATING BUDGET IN  DCA/LIFE CYCLE DETA DCA  Name  Hard - Special Projects - C  Management	200,000  227,000  3,520  230,500  Budget  230,500  230,500  Per  MPACT  Per	\$0	0 0 0 0 0 0 Non Perso \$0	Compon  Compon	elopment in the is generally \$20 additional FTE ents  0  enues Ex. \$0 mount in Study  3,331,694	se areas. 7,00,000. 2 approval  penditure  Life C	TO TO	TAL 0 0 nues)	ased on  Future
External Consulting:  Sub Total: HST Impact: Total Project Cost:  SOURCE(S) OF FUNDING  Funding Type  DCA  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA DCA Name Hard - Special Projects - C	200,000  227,000  3,520  230,500  Budget  230,500  230,500  Per  MPACT  Per	\$0	0 0 0 0 0 0 Non Perso \$0	and a transport to support deverecent awards *Subject to an  Compon  0  onnel Rev	elopment in the is generally \$20 additional FTE ents  0  enues Ex \$0  .mount in Study	se areas. 7,00,000. 2 approval  penditure  Life C  Amoun	TO'  es/(Reve	TAL  0 0 nues)	ased on  Future



Page 449 4f **35** 

Project Name: Museum Mimsy Upgrade	<b>D</b> • • • • • •				
	<b>Project Cost:</b>	\$18,600			
	Nev	w Asset/Expansion			
Commission: Corporate Services	Useful Life: 8	Pre Approval:			
Department: ITS  Categor	ry: Minor	11			
Project Mgr: Elton Chong / Janet Reid  Cost Validation	on: Third party estim	uate			
ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □ Requirement Validation					
5 4 6 7 8 4					
DETAILED DESCRIPTION (SCOPE OF PROJECT):  urchase of mWeb module from current software vendor. mWeb will permit online publica		1 10			
bublic access via markham.ca. This request is for purchase of software, initial year of main swell as extra museum staff time to create a publication of approximately 800 historical plesearch and writing of a museum volunteer representing 3,500+ hrs of service to community BUILDING MARKHAM'S FUTURE TOGETHER:  Engaged, Diverse & Thriving City	ntenance, minor custo hotographs. Project w ty.	mization of the produ			
PROJECT COSTS (\$) 2020 NOTES					
Existing Mimsy web-in					
Cost/Quote: 4,100 0 to publish content about the publish content about the publish content with the steep					
offers a newer alternation	consistent with the standards of the ITS Portal. The vendor (Axiel offers a newer alternative product. Internal Chargeback - OTCFT				
External Consulting: 6,400 Curatorial Assistant 40	Curatorial Assistant 40hrs. The annual maintenance cost of the				
the hydget	upgraded software will be \$23,500 of which \$15,000 is already in				
HST Impact:					
Total Project Cost: 18,600 0					
Total Project Cost: 18,600 0		— Euturo			
Total Project Cost: 18,600 0  OURCE(S) OF FUNDING (\$) Components		Future TOTAL Phases			
Total Project Cost: 18,600 0  OURCE(S) OF FUNDING (\$) Components  unding Type Budget	0 0	-			
Total Project Cost: 18,600 0 Components  DURCE(S) OF FUNDING (\$) Components  unding Type Budget  ax 18,600 0 0 0		TOTAL Phases			
Total Project Cost: 18,600 0  OURCE(S) OF FUNDING (\$) Components  unding Type Budget  ax 18,600 0 0 0  TOTAL FUNDING 18,600  Personnel Non Personnel Revenues	Expenditures/(R	TOTAL Phases  0 0 Revenues)			
Total Project Cost:   18,600   0	0	TOTAL Phases  0 0 Revenues)			
Total Project Cost: 18,600 0  OURCE(S) OF FUNDING (\$)  Ending Type Budget  IX 18,600 0 0 0  TOTAL FUNDING 18,600  PERATING BUDGET IMPACT \$0 \$8,500 \$0  CCA/LIFE CYCLE DETAILS	Expenditures/(R \$8,500	TOTAL Phases  0 0 Revenues)			
Total Project Cost: 18,600 0  CURCE(S) OF FUNDING (\$)  Lunding Type  Budget  18,600 0 0 0  TOTAL FUNDING 18,600  PERATING BUDGET IMPACT \$0 \$8,500 \$0  CCA/LIFE CYCLE DETAILS  DCA  Amount	Expenditures/(R \$8,500	TOTAL Phases  0 0 Revenues)			
Total Project Cost: 18,600 0  CURCE(S) OF FUNDING (\$) Components  unding Type Budget  IX 18,600 0 0 0  TOTAL FUNDING 18,600  Personnel Non Personnel Revenues  \$0 \$8,500 \$0  CCA/LIFE CYCLE DETAILS  DCA Amount	Expenditures/(R \$8,500	TOTAL Phases  0 0 Revenues)			
Total Project Cost: 18,600 0  CURCE(S) OF FUNDING (\$)  Lunding Type  Budget  18,600 0 0 0  TOTAL FUNDING 18,600  PERATING BUDGET IMPACT \$0 \$8,500 \$0  CCA/LIFE CYCLE DETAILS  DCA  Amount	Expenditures/(R \$8,500	TOTAL Phases  0 0 Revenues)			
Total Project Cost: 18,600 0  OURCE(S) OF FUNDING (\$) Components  unding Type Budget  ax 18,600 0 0 0  TOTAL FUNDING 18,600  OPERATING BUDGET IMPACT \$0 \$8,500 \$0  OCA/LIFE CYCLE DETAILS  DCA Amount	Expenditures/(R \$8,500 in <u>Life Cycle</u> —— Amount in S	TOTAL Phases  0 0 Revenues)  Study:			



Page	e 451 <b>∢</b>	f 57

Year in the study

Number: 20055 **Project Cost:** \$10,300 Project Name: ITS - Recreation Fitness Training Management Application Repair/Replace Commission: Corporate Services Pre Approval: Useful Life: Department: ITS Category: Minor Project Mgr: June Fry/Anthony Ierulli Cost Validation: Third party estimate CW ✓ 1 □ 2 □ 3 □ 4 □ Ward(s): Requirement Validation: Other(specify in Notes) 5 6 7 8 **DETAILED DESCRIPTION (SCOPE OF PROJECT):** This project is to replace the existing fitness training management application for the fitness members in the City of Markham. Exceptional Services by Exceptional People **BUILDING MARKHAM'S FUTURE TOGETHER: PROJECT COSTS (\$)** 2020 **Future Phases** The Recreation fitness application was originally used to provide Cost/Quote: 10.096 0 members with fitness plans. This technology has been in use since 2005. The fitness centre application and its interface is currently **Internal Charges:** 0 0 out of date and requires an update to modern technology. New **External Consulting:** 0 0 techonology encompasses fitness plans with enhanced features that allows staff to communicate with its membership. There are Sub Total: 10,096 0 currently 5,375 fitness members that have access to this fitness 0 **HST Impact:** 178 application. Recreation will be sole sourcing the software program **Total Project Cost:** 10,300 0 that fits the specific needs of fitness members in Markham. The poet is consistent with recent quote SOURCE(S) OF FUNDING (\$) **Components Future Funding Type Phases Budget TOTAL** Tax 10,300 0 0 0 0 0 0 TOTAL FUNDING 10,300 0 0 Personnel Non Personnel Revenues Expenditures/(Revenues) **OPERATING BUDGET IMPACT** \$0 \$9,000 \$0 \$9,000 DCA/LIFE CYCLE DETAILS **DCA** Amount in **Life Cycle** Year Name **Amount** Study Amount in Study: Amount Incl HST

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 453 4f **59** 

MARKHAM	2020 I KOJ	ECI I UNDI	NO REQUEST FO	Number:	200	)56		
Project Name: ITS - Rec	reation Facility	Tablet Project		<b>Project Cost:</b>	\$30,5	00		
Commission: Corporate S	<del>-</del>			New .	Asset/Expa	ansion		
Department: <u>ITS</u>	Services		,	Useful Life: 10	Pre Appr	roval: $\square$		
Project Mgr: Mark Elsen	aar		Category: Minor					
	2 3 4		Cost Validation: Third party estimate					
	6 7 8		Requirement Validation:	Other(specify in No	otes)			
DETAILED DESCRIPTION		ROJECT).						
This project is to purchase to The ability to have access to met and that proper accounta	welve (12) tablets t cleaning schedule ability is attached to	hat are to be utilize s by room and to ha o work assignments	ive real time tracking will he					
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Safe &	Sustainable Community					
PROJECT COSTS (\$)	<u>2020</u>	Future Phases	NOTES  Cleanliness of facilities i	e alwaye rankad ac on	of the hi			
Cost/Quote:	30,000	0	criteria impacting overal	l user satisfaction. Th	is project v	would		
Internal Charges:	0	0	enhance the ability to ma					
External Consulting:	0	0	most efficient manner possible by utilizing mobile access throughout the builiding. Existing CPU tower will be removed.					
Sub Total:	30,000	0						
HST Impact:	528	0						
Total Project Cost:	30,500	0						
SOURCE(S) OF FUNDING	<u>G (\$)</u>		Components			E-4		
Funding Type	<u>Budget</u>			T	OTAL	Future Phases		
Гах	30,500	0	0 0	0	0			
TOTAL FUNDING	30,500				0			
OPERATING BUDGET I	MPACT Pe		ersonnel Revenues	Expenditures/(Rev	venues)			
DCA/LIFE CYCLE DETA	пс	\$0 \$	50 \$0	\$0				
DCA			Amount in	<u>Life Cycle</u>				
Name		Ye		<ul><li>Amount in Str</li></ul>	udv:			
				Amount Incl I	•			
				Year in the st				
	T 1 ' 'C4 '	1	1/	Teal III the st	ludy			
DCA and/or Life Cycle	Explain if there is	s a change in the year	ar and/or cost:					



Page 455 4f 68

Number:	20057
---------	-------

Project Name:	Distant Lianna of Canada on London and		Project C	Cost:	\$43,900
	Digital Literacy Strategy Implement	cation – Phase 2 of 2		New	Asset/Expansion
Commission:	Corporate Services		Jseful Life:	5	Pre Approval:
Department:	ITS			3	Tie Appiovai.
Project Mgr:	Catherine Biss	Category:	Minor		
Ward(s).	CW □ 1 □ 2 □ 3 □ 4 ✔	Cost Validation:	Internal pee	r revie	W
ward(s).		Requirement Validation:	Condition a	ssessm	ent
	5 🗹 6 🗌 7 🔲 8 🔲	_			

### DETAILED DESCRIPTION (SCOPE OF PROJECT):

A multi-year plan to implement technology & learning opportunities that foster a digitally literate community. Phase 1, recommended by the Leveraging Technology Committee, created a Digital Media Lab (DML) at Angus Glen Library. Phase 2 will create DMLs at Markham Village and Cornell Libraries. Project supports the City's Digital Markham Strategy & MPL's Digital Literacy Strategy. Furthers MPL's strategic goal of digital inclusion through facilitation of greater citizen participation in the digital economy and the development of digital literacy skills. Since expanding the DML at Aaniin in 2018, there has been a 417% increase in usage over the previous year. 1,666 individual sessions and 2730 instructional hours in Q1 2019. There is a 27% increase over last year in related program attendance. 67% of users gained confidence using the equipment (compared to 31% Ontario Library average), 57% who tried the equipment intend to keep using it, and 65% said this tech helped further their educational goals. Additionally, 93% felt more knowledgeable about using digital resources, 89% intend to apply what they learned and 87% felt more confident when using digital resources. With this expansion to Markham Village and Cornell branches, there will be Digital Literacy services at each of the large branches, providing service to all the geographic catchments of the city.

BUILDING MARKHAM'S FUTURE TOGETHER:

Engaged, Diverse & Thriving City

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	43,100	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	43,100	0
HST Impact:	759	0
Total Project Cost:	43,900	

#### NOTES

Cost is based on Angus Glen DML, extending this service to Markham Village and Cornell. Hardware -\$26.9K includes 4 professional iMacs equipped with digital media software (sound, video and photo editing capabilities, 3D scanning, modelling software, etc.) and peripherals for both in-branch and customer use. Annual Operating Impact: \$12K for maintenance & support, \$5K for software. Phase 1 is still in process. ITS is still procuring all of the equipment.

SOURCE(S) OF FUNDING (\$)		Components					Futumo
Funding Type	<b>Budget</b>	<u>Hardware</u>	Software	<u>Maintenance</u>		<b>TOTAL</b>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	43,900	26,900	5,000	12,000	0	43,900	0
TOTAL FUNDING	43,900				=	43,900	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$17,000	\$0	\$17,000	

Page 456 of 62

| DCA | Year | Amount in Study | Amount in Study | Amount in Study | Amount Incl HST | Year in the study | DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 457 4f 63

VI.	Number:	20058

Project Name	Library Online Registration & Mobile Pri	intina	Project C	cost:	\$25,600
Toject Ivallic.	Library Online Registration & Woodle FT	mung		New	Asset/Expansion
	Corporate Services	U	Jseful Life:	5	Pre Approval:
Department:		Category:	Annual		••
Project Mgr:	Catherine Biss			4:4	
Ward(s):	CW ☑ 1 □ 2 □ 3 □ 4 □	Cost Validation:			
	5 🗆 6 🗆 7 🗆 8 🗆	Requirement Validation:	Condition as	ssessme	ent

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

This project supports MPL's Digital Inclusion Strategy as well as the City's Digital Markham Strategy. The eCARD solution facilitates self-registration for library cards online, remotely or onsite, which provides customers with direct remote access to MPL's digital collections. It enables customers to interact with the Library virtually. Innovative technologies facilitate more responsive and efficient library services, providing equity to community members experiencing barriers to access and generally improving access to Library content. Mobile printing will allow customers to send print jobs from home to the Library. It will also allow customers who are within the branches to send print jobs directly from their mobile devices to the Library's printers. The mobile printing services is a user-friendly, cloud printing solution with integrated electronic payment. The service supports any Wi-Fi based printing request. All connections are SSL encrypted and payments are secured. This mobile printing technology works with existing printer infrastructure so no extra cost are needed for deployment. The anticipated increased usage of printers can be accommodated as the printers are not used at full capacity currently as confirmed by ITS.

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Engaged, Diverse & Thriving City

PROJECT COSTS (\$)	<u>2020</u>	Future Phases
Cost/Quote:	25,110	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	25,110	0
HST Impact:	442	0
Total Project Cost:	25,600	0

#### NOTES

Costs in CAD (converted at f/x 1.35 for fees obtained in USD):

- 1) \$10,800: Online Registration one-time set up fee.
- 2) \$6,750: Online Registration annual subscription fee (includes software cloud hosting/access, address verifications, maintenance & support).
- 3) \$7,560: Mobile Printing annual subscription fee (includes installation, training materials, support, ongoing updates, integrated electronic payment set up). Cost to be recovered via the expected increase in print volume.

SOURCE(S) OF FUNDING (\$)		Components					
Funding Type	<b>Budget</b>	Online Reg fee	Annual fee	Mobile printing fee	:	HST TOTAL	<u>Future</u> <u>Phases</u>
Tax	25,600	10,800	6,750	7,560	490	25,600	0
TOTAL FUNDING	25,600				- -	25,600	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OT DAMAGE DED GET INVITATE I	\$0	\$14,310	\$7,560	\$6,750	

DCA	Year Amoun	Amount in	<u>Life Cycle</u>	
Vame	Year Amoun	Study	Amount in Study:	
			Amount Incl HST	
			Year in the study	
OCA and/or Life Cycle: Explain	if there is a change in the year and/or cost	:		



Page 459 **465** 

<b>V</b> <u>ARKHAM</u>	2020 PKOJ	ECTFUNDI	NO KŁ	ZOLSI I O.	Num	ber: 20	0059
_					<b>Project Cos</b>	st: \$26	,000
Project Name: ITS-Back	flow Prevention	Program (Softw	vare Enha	ncements)	I	Repair/Replac	re
Commission: Corporate S	Services				=		
Department: ITS					Jseful Life: 10	0 Pre Ap	proval: $\square$
Project Mgr: Rebecca Fe	;i			Category:			
Ward(s): CW ✓ 1	2 □ 3 □ 4 □			Cost Validation:			
5	] 6□ 7□ 8□		Requirem	ent Validation:	Other(specify	in Notes)	
ETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):					
nis project is to request functions and the Backflow Project and the Backflow Project (Section 2015).	evention Maintenar	nce System (BPMS		features to the fo	llowing sytems	: 1. Online Su	ıbmission
ROJECT COSTS (\$)	2020	Future Phases	NOTES	10001			
Cost/Quote:	25,580	0		ned for further su tal impact to the			e is no
Internal Charges:	0	0	incremen	au impact to the	operating badg	ct.	
External Consulting:	0	0					
Sub Total:	25,580	0					
HST Impact:	450						
Total Project Cost:	26,000	0					
=							
URCE(S) OF FUNDING	<u>G (\$)</u>		Con	nponents			Endone
ding Type	<b>Budget</b>	Online Submission	BP	<u>MS</u>		TOTAL	Future Phases
erworks	26,000	16,000	10,000	0	0	26,000	
OTAL FUNDING	26,000				- =	26,000	
PERATING BUDGET I	MDA CT Per	rsonnel Non Pe	ersonnel	Revenues	Expenditures	/(Revenues)	
EKATING BUDGET I	MIACI	\$0 \$	60	\$0	\$0	)	
	AILS						
CA/LIFE CYCLE DETA					T 10 C	_	
<u>DCA</u>				Amount in	<u>Life Cy</u>	<u>'cle</u>	
		Yea	ar Amou		•		
<u>DCA</u>		Yea	ar Amou		– Amount	in Study:	
<u>DCA</u>		Yes	ar Amou		Amount	in Study:	
	. Evaloin if d			nt Study	– Amount	in Study:	



Page 461 4f 67

**Number: 20061** 

Project Name	ITS Life Cycle Asset Replacement		Project (	Cost:	\$3,273,900
	<del></del>			Repa	ir/Replace
Commission:	Corporate Services	Ī	Jseful Life:	6	Pre Approval:
Department:	ITS	_		O	Tie ripprovui.
Project Mgr:	Sugun Rao	Category:	Major		
Ward(s):		Cost Validation:	Recent awa	rds	
· · · · · · · · · · · · · · · · · · ·	5 6 7 8	Requirement Validation:	Condition a	ssessme	ent

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

This project is to replace IT hardware and software assets that are due for replacement based on condition assessment. Some of the assets have been discontinued by Manufacturer and replacement is required in order to avoid any service interruptions.

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Exceptional Services by Exceptional People

<u>2020</u>	Future Phases
3,119,000	0
100,000	0
0	0
3,219,000	0
54,894	0
3,273,900	0
	3,119,000 100,000 0 3,219,000 54,894

#### NOTES

These items for replacement in this request includes assets:

- 1. City wide Network switches, Wireless Access Points, UPS
- 2. Primary and secondary main storage disk system, Firewall
- 3. Digital Markham additional implementation
- 4. Library Bibilotheca hardware (3M) and Media Lab equipment
- 5. Multifunction and Single Function printers
- 6. Smartphones Replacement, 7. Portal Hardware Maintenance Renewal, 8. Internal Charges - Staff for Project Resources Note: See Supporting Document for details.

SOURCE(S) OF FUNDING	<u>(\$)</u>		Componer	nts			E4
Funding Type	<u>Budget</u>	<u>Network</u>	Data Centre			TOTAL	<u>Future</u> <u>Phases</u>
Building Fees	168,530	0	0	0	0	0	0
Development Fees	224,710	0	0	0	0	0	0
Operating Funded Life Cycle	2,712,130	0	0	0	0	0	0
Waterworks	168,530	0	0	0	0	0	0
TOTAL FUNDING	3,273,900				=	0	<u> </u>

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OI DRAITING BODGET HWI IXET	\$0	\$60,000	\$0	\$60,000	

DCA/LIFE CYCLE DETAILS

DCA

Amount in Life Cycle

<u>DCA</u>	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 3,872,100
		Amount Incl HST 2,712,100
		Year in the study
DCA and/or Life Cycle: Explain if there is	s a change in the year and/or cost:	

## DETAILS FOR CAPITAL PROJECT IT LIFECYCLE ASSET REPLACEMENT

				Source of Funding			
ltem	Quantity	Total Costs	Life Cycle	Water Works	Building	Engineering	Planning
2020 IT Lifecyo	cle Asset rep	lacement					
City Wide Network Switch, Wireless Access Point and Closet UPS Replacement	•	\$822,000	\$657,600	\$49,320	\$49,320	\$32,880	\$32,8
Replacement of 7+ year old City-wide 94 Network switch, 113 Wireless Access point and 72 Closet UPS. The hardware is listed as end of life by Manufacturer with no future security patches nor any updates. In addition, old switches do not allow us to implement enhanced security control, such as access control list (ACL), that was identified as high Cyber Security Risk. The Total cost includes hardware, required licenses and Professional services for Implementation.	Network Switch (94/179) Wireless Access point (113/151) Closet UPS (72/79)						
Storage Disk system with Backup software and Firewall Replacement:		\$860,000	\$688,000	\$51,600	\$51,600	\$34,400	\$34,4
6+ year old 2 x Disk Storage System with backup software and 2 x Tier one Firewall equipment replacement at Primary and Backup data Centre. The hardware is listed as end of life by Manufacturer, and further extension of the warranty and maintenance past the lifecycle will incur significant cost. The hardware cannot be covered under 3rd party maintenance and support. Total cost includes software, user licenses and Implementation.	Disk Storage System (2/4) Tier One Firewall (2/4)						
ITS Strategic Plan Implementation		\$300,000	\$240,000	\$18,000	\$18,000	\$12,000	\$12,00
Library Pibliothese (OM) and Digital Madia Lab Handrara		¢457,000	¢457,000	<del>የ</del> ሰ	¢Ω	¢Ω	
Library Bibliotheca (3M) and Digital Media Lab Hardware  Replacement of 8+ year old Library 3M equipment - (3 of 4 Selfcheck, 3 of 3 Tracking Pad	Selfcheck (6)	\$457,000	\$457,000	\$0	\$0	\$0	
and 1 of 1 book sorter equipment at Thornhill, 2 of 2 Selfcheck at Unionville, 1 of 1 Selfcheck at Thornhill Village Libraries) and 6+ year old Media Lab equipment at Thornhill	Tracking Pad (3) book sorter (1) Media Lab (1)						
Replacement of Printer - Phase 2/3, Plotter and Folding & Stuffing Machine in Mailroom		\$450,000	\$360,000	\$27,000	\$27,000	\$18,000	\$18,0
Replacement of City Wide 6+ year old remaining 56 multifunction devices (MFD), 1 Sign Shop Plotter and 1 Mailroom Folding and Stuffing Machine,. The contracts and maintenance on these equipment will expire in 2020. Some of the MFD units have started breaking down on a frequent basis impacting business services, and need replacement.	MFD (56/105) Folding & Stuffing (1/1) Plotter (1/4)						
City Wide Smartphone Replacement		\$30,000	\$24,000	\$1,800	\$1,800	\$1,200	\$1,2
Lifecycle replacement of 150 corporate smartphones that are older than two and half years.	Smartphone (150/399)				· ·		
Portal Hardware Maintenance Renewal							
Based on lifecycle, portal hardware was due for replacement in 2019. However, in discussion with the Region of York, the City would like to extend the life of the hardware until end of 2021. During this period, we plan to also establish a go forward strategy on the overall portal architecture and hosting service. In the meantime, maintenance and support service for the current hardware, which is due for renewal, needs to be extended and the requested budget is to pay for this service until end of 2021 to ensure service continuity.	1	\$ 200,000	\$160,000	\$12,000	\$12,000	\$8,000	\$8,00
Internal Charges 4 Staff for Desirat Descures		¢ 100.000	90,000	6.000	6.000	4.000	4.00
Internal Charges - 1 Staff for Project Resources  This resource is required in order to implement IT Capital Projects		\$ 100,000	80,000	6,000	6,000	4,000	4,00
Total		\$3,219,000	\$2,666,600	\$165,720	\$165,720	\$110,480	\$110,48
HST Impact	1.76%	\$54,894	\$45,524	\$2,811	\$2,811	\$1,874	\$1,87



Page 465 of **788** 

IVIARKHAM	_ = = = = = = = = = = = = = = = = = = =		<b></b>	Number:	20	0062
Project Name: BW 100	Comme '' B	- 614 - CI - P	1	<b>Project Cost:</b>	\$129	,200
Project Name: Bill 108 -	Community Ber	efits Charge By	-law	Studie	es/Pilot F	rograms
Commission: Corporate S	Services			Useful Life: 0		proval:
Department: Finance			Category		110 /1p	provan. —
Project Mgr: Kevin Ross	3			: Other(specify in No	otac)	
Ward(s): $CW \square 1$	2 3 4 4		Requirement Validation			
5 🗆	6 7 8		Requirement varidation	Legislative compilar		
DETAILED DESCRIPTION		· · · · · · · · · · · · · · · · · · ·				
To prepare a study detailing Also includes the preparation				es, cash-in-lieu and pa	ırkland d	edication.
		•	C.			
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Stewar	dship of Money & Resources			
PROJECT COSTS (\$)	2020	Future Phases	NOTES			
Cost/Quote:	<u>2020</u> 0	<u>ruture rhases</u>	Bill 108 has received Ro			
Internal Charges:	0	0	required to have a Community, 2020.	nunity Benefits By-law	v in place	by Janua
External Consulting:	127,000	0	Legal costs - \$25,400			
Sub Total:	·		Consulting costs - \$103,	800		
HST Impact:	127,000 2,235	$\frac{0}{0}$				
Total Project Cost:	129,200	0				
=	123,200					
OURCE(S) OF FUNDING	<u>G (\$)</u>		Components			Future
unding Type	<u>Budget</u>			<u>T(</u>	OTAL	<u>Phases</u>
CA	116,280	0	0 0	0	0	
on-DC Growth	12,920	0	0 0	0	0	
TOTAL FUNDING	129,200				0	
OPERATING BUDGET I	MPACT Per		ersonnel Revenues	Expenditures/(Rev	renues)	
		\$0 \$	50 \$0	\$0		
OCA/LIFE CYCLE DETA DCA	<u>ILS</u>					
<u>DCA</u> Name		Yes	Amount in ar Amount Study	<u>Life Cycle</u>	_	
- Tunic			- State	— Amount in Stu	ıdy:	
				Amount Incl H	IST	
				Year in the str	udy	
DCA and/or Life Cycle	: Explain if there is	a change in the year	ar and/or cost:			



Page 467 **47 73**Number: 20063

Project Name: Internal P	Project Managas	mont			Project (	Jost: \$92	28,800
-	•	пені				Studies/Pilot	Programs
Commission: Corporate S	ervices			Ţ	Jseful Life:	0 Pre A	pproval:
Department: Finance				Category:	Annual		••
Project Mgr: Kevin Ross			Cos		Other(speci	fy in Notes)	
	2				Other(speci	· ·	
	6□ 7□ 8□		1			<u>, , , , , , , , , , , , , , , , , , , </u>	
Project to assign internal reso (Development Charge) proje Operating Budget.	ource costs associa	ited with the admi					
BUILDING MARKHAM'	S FUTURE TOG	ETHER:					
PROJECT COSTS (\$)	2020	Future Phases	NOTES	111 .1 .1	r . 1		
Cost/Quote:	0	0				rce costs of 10 pment charges)	
Internal Charges:	928,800	0		Sub 8.	o ,, un (00 , 010)	pinene enarges)	, projects.
External Consulting:	0	0					
Sub Total:	928,800	0					
HST Impact:	0	0					
Total Project Cost:	928,800	0					
SOURCE(S) OF FUNDING	<u> </u>		Compo	onents			Future
Funding Type	<u>Budget</u>					TOTAL	<u>Phases</u>
OCA	928,800	0	0	0	C	) 0	
TOTAL FUNDING	928,800					0	
OPERATING RUDGET I	мраст Ре	rsonnel Non l	Personnel Re	evenues	Expenditu	res/(Revenues)	)
OPERATING BUDGET II	MPACT Pe	rsonnel Non I \$0	Personnel Ro	\$0	Expenditu	res/(Revenues) \$0	
DCA/LIFE CYCLE DETA	MPACT				Expenditu	, , ,	
DCA/LIFE CYCLE DETA DCA	MPACT	\$0	\$0	\$0  Amount in	•	, , ,	
DCA/LIFE CYCLE DETA	MPACT	\$0		\$0	<u>Life</u>	\$0	
	MPACT	\$0	\$0	\$0  Amount in	Life — Amou	\$0  Cycle	
DCA/LIFE CYCLE DETA DCA	MPACT	\$0	\$0	\$0  Amount in	Life — Amou Amou	\$0  Cycle  Int in Study:	



Page 469 47 5

IVIAKKHAM			~	Number	: 20	064
Project Name: Facility F	Inougy Monogom	ant Duagnam		<b>Project Cost:</b>	\$337,	800
Project Name: Facility E	mergy Managen	ent Program		New	Asset/Exp	ansion
Commission: Corporate S	Services		ī	Useful Life: 15	Pre Apr	oroval:
Department: Sustainabil	_		Category:		rie ripi	novui.
Project Mgr: Amanda M	artin					
Ward(s): CW ✓ 1	2 🗆 3 🗆 4 🗆			Internal peer review		
5 🗆	6 7 8		Requirement Validation:	Other(specify in No	nes)	
DETAILED DESCRIPTIO	ON (SCOPE OF P	ROJECT):				
strategic automation system \$165,000 annually in utility 2020 [\$337,800 -\$39,000)/ \$ BUILDING MARKHAM	& billing costs star \$165,000], resulting	ting in 2021. Additi g in a payback of 1.	ionally, there will be one-tir			
PROJECT COSTS (\$)	2020	Future Phases	NOTES	C 01 651	2021 0	1021
Cost/Quote:	160,000	0	E3: Estimated annual sav through metering & bill a			
Internal Charges:	175,000	0	and building automation	improvements; and \$	662k throu	gh Citywide
External Consulting:	0	0	energy-efficient Lifecycle HVAC, pumps). Internal			
Sub Total:	335,000	0	increase service quality re			
HST Impact:	2,816	0	are able to continuously i			
Total Project Cost:	337,800	0	best practices and comple source: Markham Energy			
SOURCE(S) OF FUNDING	G (\$)		Components			F-4
Funding Type	Budget	Internal Charge E	nergy Conservation <u>Projects</u>	<u>T</u>	OTAL	<u>Future</u> <u>Phases</u>
Other Internal	337,800	175,000	162,800 0	0 33	37,800	0
TOTAL FUNDING	337,800			3.	37,800	0
OPERATING BUDGET I	MPACT Per		rsonnel Revenues	Expenditures/(Re	venues)	
		\$0 -\$165	5,000 \$0	-\$165,000		
OCA/LIEF CVCLE DETA	TT C					

DCA
Name
Year Amount in Study
Amount in Study:
Amount Incl HST
Year in the study

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Ward(s):

Project Mgr: Jason Ramsaran

## 2020 PROJECT FUNDING REQUEST FORM

Page 471 **4f 98** 

<b>Y</b> IARKHAM	2	Number	: 20065
		<b>Project Cost:</b>	\$337,800
Project Name: 8100 Warden Facility Repair and/or Repl	acement Projects	Repa	ir/Replace
Commission: Corporate Services		Useful Life:	Pre Approval:
Department: Asset Management	Category	: Major	

## **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

CW 

1 
2 
3 
4

5 □ 6 □ 7 □ 8 ☑

Program includes various life cycle works to maintain the 8100 Warden Facility in a state of good repair and in alignment to the Asset Management Plan/ Policy. Items for repair and/or replacement in the Budget year will be determined in the previous year, upon completion of annual condition assessment. Funding request is based on historical budgets and life cycle. Budget request is subject to change, based on condition assessment in previous year.

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	331,981	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	331,981	0
HST Impact:	5,843	0
Total Project Cost:	337,800	0

NOTES
\$127,500 Elevator (1985 year installed) and associated items
\$77,500 HVAC coils (1982 year installed) and several exhaust fans
\$30,800 Painting and garage overhead doors (2000 year installed)
\$102,000 Garbage area/room/collection systems

Elevator work will require up to 3 years.

Amount requested is consistent with 2019 Life Cycle Reserve Study update.

Cost Validation: Internal peer review

Requirement Validation: Condition assessment

SOURCE(S) OF FUNDING (\$)		Components					
Funding Type	<b>Budget</b>	<u>Elevator</u>	HVAC, ventilation	<u>Painting</u>	Garbage I	TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	337,800	127,500	77,500	30,800	102,000	337,800	0
TOTAL FUNDING	337,800					337,800	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	<b>Expenditures/(Revenues)</b>	
OTERATING BEDGET HAT ITEL	\$0	\$0	\$0	\$0	

#### **DCA/LIFE CYCLE DETAILS**

Amount in Study: 337,80  Amount Incl HST 337,80  Year in the study 202	<u>DCA</u>			Amount in	Life Cycle	
Amount Incl HST 337,80  Year in the study 202	Name	e Year	Amount	Study	Amount in Study:	337,800
· ——					•	337,800
					Year in the study	2020
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:	OCA and/or Life Cycle: Explain	n if there is a change in the year ar	nd/or cost:			



Page 473 **473 9 Number: 20066** 

***		Project Cos	t: \$137,700					
Project Name: Accessibility Retrofit Program		F	Repair/Replace					
Commission: Corporate Services  Department: Asset Management	U Category:	Jseful Life: 1(	Pre Approval:					
Project Mgr: Colby Brygidyr  Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □	Cost Validation:	n: Internal peer review						
5 G 6 T 7 T 8 T	Requirement Validation:	Legislative con	mpliance					
ETAILED DESCRIPTION (SCOPE OF PROJECT): Ingoing program to comply with the City's accessibility and AODA guidelines. Items for repair or/and replacement in the budget year determined in 2019, as part of the annual condition assessment in preparation for 2020 budget.								

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	125,491	0
Internal Charges:	10,000	0
External Consulting:	0	0
Sub Total:	135,491	0
HST Impact:	2,209	0
Total Project Cost:	137,700	0

#### NOTES

\$87,700 Misc. Upgrades (signage, door operator, ramp) \$40,000 Morgan Pool & Milliken Mills Change Rooms \$10,000 Internal Chargeback

Amount requested is consistent with 2019 Life Cycle Reserve Study update.

Study update

SOURCE(S) OF FUNDING (\$)			Compon	ents			E-4
Funding Type	<b>Budget</b>	Accessibility	Chargeback			TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	137,700	127,700	10,000	0	0	137,700	0
TOTAL FUNDING	137,700				=	137,700	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>			Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	1,903,300
				Amount Incl HST	137,700
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

SAM LC program for 2020 is \$1.778M of \$1.903M - Corp Security \$701.7K, Parking Lot light \$490.6K, Backflow Prevention \$20.4K, Bldg. Condition Audit \$144K, Bldg Envelope \$56.1K, Accessibility \$137.7K, Designated Substances \$69.4K & PVC Salt Dome Demolition supplement \$158K.



Page 475 **4**f **9** 

<u> ARKHAM</u>	2020 PROJECT FUNDING REQUEST FOR	M Number:	20067	
oigat Nama: D214		<b>Project Cost:</b>	\$144,000	
oject Name. <b>Bullo</b>	ing Condition Audit - Full Time Staff	Repair	/Replace	_

		Repa	iir/Replace
Commission: Corporate Services	Useful Life:	1	Pre Approval:
Department: Asset Management	<u> </u>	1	тте търгочаг. —
Project Mgr: Atiq Rahman	Category: Annual		
Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □	Cost Validation:		
5□ 6□ 7□ 8□	Requirement Validation:		

#### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

This is a recovery for a Facility Engineering position. The building audit program aims to audit approximately 200K sq. ft. of City's 2M sq. ft. facility portfolio every year, with plan to audit each facility once every 10 years. These audits are required to create/update life cycle inventories and replacement plans for each building/facility, to keep these buildings in a state of good repair and in alignment to City's Asset Management Plan/Policy. Approximately 563,000 sq. ft. were audited in last 3 years. Staff identified that using an internal staff position is more cost effective than outsourcing the same work as this position is able to complete other projects and services as needed.

Study.

#### **BUILDING MARKHAM'S FUTURE TOGETHER:**

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	144,000	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	144,000	0
HST Impact:	0	0
Total Project Cost:	144,000	0

NOTES
\$144,000 Salary recovery for one Senior Facility Engineer.
Amount requested is consistent with 2019 Life Cycle Reserve

SOURCE(S) OF FUNDING (\$)			Compone	ents			E4
Funding Type	<b>Budget</b>	Salary Recovery				<b>TOTAL</b>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	144,000	144,000	0	0	0	144,000	0
TOTAL FUNDING	144,000				=	144,000	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

#### DCA/LIFE CYCLE DETAILS

DCA Normal	Year	Amount	Amount in	<u>Life Cycle</u>	
Name	1 cai	Amount	Study	Amount in Study:	1,903,300
				Amount Incl HST	144,000
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

SAM LC program for 2020 is \$1.778M of \$1.903M - Corp Security \$701.7K, Parking Lot light \$490.6K, Backflow Prevention \$20.4K, Bldg. Condition Audit \$144K, Bldg Envelope \$56.1K, Accessibility \$137.7K, Designated Substances \$69.4K & PVC Salt Dome Demolition supplement \$158K.



Page 477 **4f 83**Number: 20068

				Project (	Cost:	\$56,100
Project Name: <b>Building F</b>	Envelope/Structi	ıral Review			Studies/F	Pilot Programs
Commission: Corporate S	ervices			Useful Life:	-	re Approval:
Department: Asset Mana	gement		Catana		10 1	ie Appiovai. —
Project Mgr: Michael Ry	/an		•	ry: Minor		
Ward(s): CW ✓ 1	2□ 3□ 4□			on: Recent awa		
5 🗆	6□ 7□ 8□		Requirement Validation	on: Visual insp	ection	
DETAILED DESCRIPTIO	N (SCOPE OF PI	ROJECT):				
This project budget is request ensure the safe condition of to 20 buildings every two years.  BUILDING MARKHAM'S	ted once every two he buildings. The r . This program is a	years to review the review will be perform comprehensive rev	rmed by a Building Scie	nce group/comp	oany for an	estimated 15 to
			NOTES			
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	NOTES \$56,100 Building Env	elone/Structural	Review Te	ntative list of
Cost/Quote:	55,130	0	Buildings for 2020 (w	ill be updated/co	onfirmed du	ring tender phase)
Internal Charges:	0	0	Armadale C.C, Mkh R			
External Consulting:	0	0	Clubhouse, Pingle Ho Station 96, Fairty Hou			
Sub Total:	55,130	0	Street Park Shop, Mili			
HST Impact:	970	0	Main Street Mkh Publ			
Total Project Cost:	56,100	0	Soccer Dome. Amoun Cycle Reserve Study u		onsistent wi	th 2019 Life
SOURCE(S) OF FUNDING	<u>; (\$)</u>		Components			
Funding Type	<b>Budget</b>	Review			TOT	Future AL Phases
Operating Funded Life Cycle	56,100	56,100	0	0 (	56,1	00 0
TOTAL FUNDING	56,100				56,1	0
	Por	rsonnel Non Per	rsonnel Revenues	Evnanditu	res/(Reven	uac)
OPERATING BUDGET IN	<u>МРАСТ</u>			Expenditu		ues)
DCA/LIEE CVCLE DETA	ш с	\$0 \$0	\$0		\$0	
DCA/LIFE CYCLE DETA	<u>ILS</u>		Amount	in Life	Cycle	
Name		Yea	Amount r Amount Study		<u>Cycle</u>	
- 100-100			•	—— Amou	ınt in Study	: 1,903,300
				Amou	int Incl HST	56,100
				Year	in the study	2020
DCA and/or Life Cycle:	Explain if there is	a change in the year	r and/or cost:			
SAM LC program for 20 \$20.4K, Bldg. Condition Salt Dome Demolition su	Audit \$144K, Bld					



Page 479 **4785** 

2020 PROJECT FUNDING REQUEST FORM 20069 **Number:** 

Project Name: Civic Centr	re Renair and/d	or Replacement	Projects		Project C	Cost: \$3	345,000
		or replacement	Trojects			Repair/Rep	lace
Commission: Corporate Se				U	Jseful Life:	5 Pre	Approval: $\square$
Department: Asset Manag				Category:	Major		
Project Mgr: Jason Ramsa			Cos	t Validation:		uidelines	
Ward(s): $CW \boxed{\bullet} 1 \square$	2 🗆 3 🗆 4 🗆			t Validation:			
5 🗆	6□ 7□ 8□		Requirement	t vanuation.	Collaition as	ssessment	
DETAILED DESCRIPTION	N (SCOPE OF P	ROJECT):					
Program includes various life Management Plan/Policy. Iten condition assessment. Funding change, based on condition ass	ns for replacement grequest is based sessment in previous	t in the Budget yea on historical budge ous year.	r will be determets, life cycle da	nined in the p atabase and tr	revious year, ending. Budg	upon comple	etion of annual
BUILDING MARKHAM'S	FUTURE TOG	ETHER: Except	ional Services by	/ Ехсериопаі Р	reopie		
PROJECT COSTS (\$)	2020	Future Phases	NOTES				
Cost/Quote:	339,033	0		lding envelop		head garage	door (2004),
_				ation, paintin phitheatre co		. chulking an	d resealing.
Internal Charges: External Consulting:	0	0	railing painti		,	,	ζ,
_							gns, Removal of
Sub Total:	339,033	0		visible from I chanical (plur			
HST Impact:	5,967	0		enumear (pran ested is cons			e Reserve
Total Project Cost:	345,000	0	Study update	e.		-	
SOURCE(S) OF FUNDING	(\$)		Compo	onents			<b>.</b>
Funding Type	<u>Budget</u>	Bldg envelope work	Site features	Exterior sign	age <u>Me</u>	chanical TOTA	<u>Future</u> L <u>Phases</u>
Operating Funded Life Cycle	345,000	83,000	92,800	108,000	61,200	345,000	0
TOTAL FUNDING	345,000					345,000	0
<b>OPERATING BUDGET IM</b>	Per Per			evenues	•	es/(Revenue	<b>s</b> )
		\$0 \$	50	\$0		\$0	
DCA/LIFE CYCLE DETAIL	<u>LS</u>					~ .	
DCA Nome		Ye	ar Amount	Amount in Study	<u>Life</u>	<u>Cycle</u>	
Name		10	ai Amount	Study	– Amou	nt in Study:	440,000
					Amoui	nt Incl HST	345,000
					Year	in the study	2020
DCA and/or Life Cycle. I	Evaloia if there is	a abanga in the way	or and/or acets				
DCA and/or Life Cycle: I						1.T. C	. Di 1



Ward(s):

Page 481 **4**f **9**8

<u> Markh</u>	HAM 2020 PROJECT FUNDING REQUEST A	FORM Number:	20070
Proiect Name:	Corporate Security Operations & System Replacements	<b>Project Cost:</b>	\$701,700
		Repair	r/Replace
Commission:	Corporate Services	Useful Life: 7	Pre Approval:

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

CW ✓ 1 □ 2 □ 3 □ 4 □

5 6 7 8

Department: Asset Management

Project Mgr: Eric Lizotte

Funding required to complete security systems and /or component repair or/and replacements at various City Facilities, to continue our requirement under OHSA and Bill 168 - workplace violence and harassment. Project budget includes funding for Manager of Corporate Security. Items in the budget year are based on security consultant and Auditor General recommendations. Amount requested is consistent with 2019 Life Cycle Reserve Study update.

**BUILDING MARKHAM'S FUTURE TOGETHER:** Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	434,061	0
Internal Charges:	260,000	0
External Consulting:	0	0
Sub Total:	694,061	0
HST Impact:	7,639	0
Total Project Cost:	701,700	0

#### NOTES

\$151,000 Civic Centre & 8100 Warden Closed Circuit Television (CCTV) & Access Control. Recycling Depots & Markham Village Library Cenotaph CCTV

Category: Major

Requirement Validation: Legislative compliance

Cost Validation: Internal peer review

\$86,700 Fire Stations Digital Video Recorder (DVR), Museum & Operations facilities electronic keybox/audit

\$102,000 Recreation facilities security systems (1990 to 2010) \$102,000 Citywide security, ID cards, consultant, software

licences, on-demand items \$260,000 Internal chargeback.

SOURCE(S) OF FUNDING (\$)			Comp	onents			E-4
Funding Type	Budget	Civic, 8100, Reyel Depot, MVL	Rec Fac, Fire Stn, Museum, 555 Miller	Training, Consultant, On demand, ID card,	Int'l Charge	back TOTAL	<u>Future</u> <u>Phases</u>
				license			
Operating Funded Life Cycle	701,700	151,000	188,700	102,000	260,000	701,700	0
TOTAL FUNDING	701,700				-	701,700	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OTERATING BODGET HWI NET	\$0	\$0	\$0	\$0	

#### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>			Amount in	Life Cycle	
Name	Year	Amount	Study	Amount in Study:	1,903,300
				Amount Incl HST	701,700
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

SAM LC program for 2020 is \$1.778M of \$1.903M - Corp Security \$701.7K, Parking Lot light \$490.6K, Backflow Prevention \$20.4K, Bldg. Condition Audit \$144K, Bldg Envelope \$56.1K, Accessibility \$137.7K, Designated Substances \$69.4K & PVC Salt Dome Demolition supplement \$158K.

Corporate S	ecurity Ope	erations &	System Up	grades									Lifecycle	Budget	Inflation	0.02
co. po. ate o		Major		Braucs						- N	on Inflatod	UST Inc	:lusive>	<-Inflated, HS		0.01
		iviajoi								Z[4	limateu	Δ	B	E=A*Inflation		G=C*Infl^3
	Responsible	Operating/C						Year	Cycle		Replacem				2021 Budget	G-C IIII 3
Facility		apital	Classification	Class Type	Description	Location	Attributes	Installed	Factor	Year Due	ent Value	2020	2021	Entry	Entry	
Asset					Corporate Security Operations and		Civic Centre CCTV replacement									
Management	ООТ		Program	Program	System Upgrades	Civic Centre	& C-Cure to S2 Conversion	1920	10	0 2020	60,000	60,00	00			
Asset					Corporate Security Operations and		Access contorl, CCTV and									
Management	ООТ		Program	Program	System Upgrades	8100 Warden	Intrustion System Upgrade	2018		1 2020	50,000	50,00	00			
Asset					Corporate Security Operations and		Recycling Depot - CCTV install /									
Management	ООТ		Program	Program	System Upgrades	Recycling Depots	Upgrade X4 locations			2020	30,000	30,00	00			
Asset					Corporate Security Operations and	Markham Village	Markham Village Library - CCTV									
Management	ООТ		Program	Program	System Upgrades	Librarys	for Cenotaph			2020	8,000	8,00	00	151,000		
Asset					Corporate Security Operations and		DVR Replacement with NVR at									
Management	ООТ		Program	Program	System Upgrades	Fire Stations	FS91,92,94 &95	1920	10	0 2020	35,000	35,00	00			
Asset					Corporate Security Operations and		Electronic Lockbox									
Management	ООТ		Program	Program	System Upgrades  Corporate Security	Museum	Control/Audit			2020	25,000	25,00	00			
Asset Management	ООТ		Program	Program	Operations and System Upgrades	Operations/555 Miller	Electronic Key Box / audit			2020	25,000	25,00	00	86,700		
Asset					Corporate Security Operations and	Recreation										
Management	OOT		Program	Program	System Upgrades	Facilities	Recreation Facilities security			2020	100,000	100,00	00	102,000		
Asset Management	ООТ		Program	Program	Corporate Security Operations and System Upgrades	Citywide	Staff ID /Access Card /Badge Replacement			2020	5,000	5,00	10			
Asset			rogram	riogiani	Corporate Security Operations and	citywide	replacement			2020	3,000	3,00				
Management	ООТ		Program	Program		Citywide	Consultant			2020	30,000	30,00	00			
					Corporate Security Operations and											
	ООТ		Program	Program	System Upgrades	Citywide	Internal Recovery			2020	130,000					
Asset					Corporate Security Operations and											
Management	ООТ		Program	Program	System Upgrades	Citywide	Training			2020	10,000	10,00	00			

Asset Management	ООТ	Program	Program	Corporate Security Operations and System Upgrades	Citywide	Software license		2020	5,000	5,000				
Asset Management	ООТ	Program	Program	Corporate Security Operations and System Upgrades	Citywdemande	On-Demand Items		2020	50,000	50,000		102,000		
								TOTAL =	563 000	433,000	0			
							Cost/Quote			) = SUM(C,		434,061 260,000	0	
										External	Consulting ontingency		-	
											Subtotal	694,061	0	
											ST Impact= Total	7,639 701,700	0	
												701,700	0	
-														



Ward(s):

## 2020 PROJECT FUNDING REQUEST FORM

Page 485 41 98

2020

Year in the study

IJANKHALI	14011	ibei.	20071
Project Name: Designated Substances Management	Project Cos	st: _	\$69,400
Project Name: Designated Substances Management		Studies	/Pilot Programs
Commission: Corporate Services	Useful Life: 2		Pre Approval:
Department: Asset Management		<b>-</b>	т с Арргоvаг. —
Project Mgr: Khwaja Waker	Category: Minor		

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

CW **✓** 1 □ 2 □ 3 □ 4 □

This project includes review of identified Asbestos Containing Materials (ACMs) at City owned facilities and update existing Asbestos Management Plans. This program will also include management (including testing, analysis, planning and abatement) of any other designated substances at City facilities and training for facility staff on Asbestos management. Ontario Regulation 278/05 requires all building owners to have ongoing Asbestos Management programs at facilities where Asbestos Containing Materials (ACMs) are identified.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	2020	<b>Future Phases</b>
Cost/Quote:	68,200	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	68,200	0
HST Impact:	1,200	0
Total Project Cost:	69,400	0

### NOTES

\$69,400 Designated Substance Management to maintain a healthy and safe environment within City owned facilities.

This is a bi-annual program.

Amount requested is consistent with 2019 Life Cycle Reserve Study update.

Cost Validation: Internal peer review

Requirement Validation: Other(specify in Notes)

SOURCE(S) OF FUNDING (\$)			Compone	ents			TF. 4
Funding Type	Budget	<u>Designated</u> Substances				TOTAL	<u>Future</u> <u>Phases</u>
		Management					
Operating Funded Life Cycle	69,400	69,400	0	0	0	69,400	0
TOTAL FUNDING	69,400				=	69,400	
TOTAL FUNDING	69,400				Ξ	69,400	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OI DANIEL OF DODGET INVESTOR	\$0	\$0	\$0	\$0	

#### **DCA/LIFE CYCLE DETAILS**

		Amount in	<u>Life Cycle</u>	
Year	Amount	Study	- Amount in Study:	1,903,300
			Amount Incl HST	69,400
	Year	Year Amount		Year Amount Study Amount in Study:

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

SAM LC program for 2020 is \$1.778M of \$1.903M - Corp Security \$701.7K, Parking Lot light \$490.6K, Backflow Prevention \$20.4K, Bldg. Condition Audit \$144K, Bldg Envelope \$56.1K, Accessibility \$137.7K, Designated Substances \$69.4K & PVC Salt Dome Demolition supplement \$158K.



Y ANNOAN		Number:	20072	
Project Name: Eins Essilies Donnis and Joseph		Project Cost:	\$233,200	
Project Name: Fire Facilities Repair and/or Replaceme  Commission: Corporate Services  Department: Asset Management  Project Mgr: Jason Vasilaki  Ward(s): CW 1 2 3 4 5 6 7 8		ul Life: 15 nor blished guidelines		
PETAILED DESCRIPTION (SCOPE OF PROJECT): Program includes various life cycle works to maintain the fire far Management Plan/Policy. Items for repairs or/and replacement is completion of annual condition assessment. Funding request is bequest is subject to change, based on condition assessment in particular description.  BUILDING MARKHAM'S FUTURE TOGETHER:  Exception:	in the Budget year will be determin based on historical budgets, life cyc	ned in the previous cle database and tr	year, upon	
PROJECT COSTS (\$) 2020 Future Phases	NOTES \$82,190 FS 91, 92, 93, 94 Fu	rnaces (2000), fire	alarms, painting,	

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	229,166	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	229,166	0
HST Impact:	4,033	0
Total Project Cost:	233,200	0

ceiling tiles

\$56,150 FS 95 Furnace (2000), cabinets/countertops, washroom plumbing, painting, ceiling, flooring, blinds, lighting fixtures \$74,460 FS 96,97,98,99 - Lighting fixtures, landscaping, generator (\$60,000; 1984 year installed)

\$20,400 Furniture & equipment replacements where needed Amount requested is consistent with 2019 Life Cycle Reserve Study update.

SOURCE(S) OF FUNDING (\$)		Components								
Funding Type	<u>Budget</u>	FS91,92,93,94	FS 95	FS96,97,98,9	9 Furniture, Equipn	nents TOTAL	<u>Future</u> <u>Phases</u>			
Operating Funded Life Cycle	233,200	82,190	56,150	74,460	20,400	233,200	0			
TOTAL FUNDING	233,200				=	233,200				

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OI DAMINO BODGET IVITALET	\$0	\$0	\$0	\$0	

### DCA/LIFE CYCLE DETAILS

<u>DCA</u>			Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	354,600
				Amount Incl HST	233,200
				Year in the study	2020
DCA and/or Life Cycle: Explain if there is a change	ge in the year a	nd/or cost:			
LC includes \$233,200 for facility repair/replaceme	nt and \$121,40	00 for signa	ge.		



OK-	2020 PROJ	ECT FUNDI	NG REQU	UEST FO	RM		ge 489 <b>4</b> f
<b>M</b> ARKHAM			~		Numbe	r: 2	0073
Project Name: Fire Station	on Signs - Phase	2 of 2			<b>Project Cost:</b>	\$12	1,400
					Rep	air/Repla	ce
Commission: Corporate S				J	Jseful Life: 15	Pre A <sub>l</sub>	pproval:
Department: Asset Mana Project Mgr: Sameem Sh				Category:	Minor		
Ward(s): CW ✓ 1			Cos	st Validation:	Recent awards		
	2 □ 3 □ 4 □		Requiremen	t Validation:	Condition assessn	nent	
DETAILED DESCRIPTION							
Markham Fire Stations as a v 94 & 96. This project will c BUILDING MARKHAM'	omplete insallation	of signs at the rem		ire Station 92,		ens at Stat	ion 91, 93,
PROJECT COSTS (\$)	2020	Future Phases	NOTES		1 0 1		
Cost/Quote:	119,282	0	\$114,411 Fi	rm quote fron	n vendor for lectroi	nic signs a	it 4 Fire
Internal Charges:	0	0	\$6,971 Med	ia players to o			
External Consulting:	0	0		hold 2019 pr	ice in 2020. sistent with 2019 Li	ife Cycle l	Reserve
Sub Total:	119,282	0	Study updat		istent with 2019 El	ire Cycle i	Reserve
HST Impact:	2,099	0					
Total Project Cost:	121,400	0					
SOURCE(S) OF FUNDING	<u>G (\$)</u>		Comp	onents			E4
Funding Type	<u>Budget</u>	FS Signs	Media player			TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	121,400	114,429	6,971	0	0 1	121,400	
TOTAL FUNDING	121,400					121,400	
OPERATING BUDGET I	MPACT Per	rsonnel Non Pe	ersonnel R	levenues	Expenditures/(R	evenues)	
OF ERATING BUDGET II	WIFACI	\$0 \$	50	\$0	\$0		
DCA/LIFE CYCLE DETA DCA	ILS						
<u>DCA</u> Name		Yes	ar Amount	Amount in Study	<u>Life Cycle</u>	_	
1 101111				~ · · · · · · · · · · · · · · · · · · ·	— Amount in S	· =	354,600
					Amount Incl	HST	121,400
					Year in the	study	2020



# 2020

Page 491 4f 667

\$127,700

A DDZXIDZYC BIIXIDIXIZY DDZXIIDCCC BZXDXA		
O PROJECT FUNDING REQUEST FORM	Number:	20074

**Project Cost:** 

Project Name: I	Library Fa	acilities Repair a	and/or Replacen	nent Project	S	Ū		
_			-				Repair/Rep	olace
Commission: C	•				J	Jseful Life:	10 Pre	Approval:
Department: A Project Mgr: J					Category:	Minor		
· -				Co	st Validation:	Internal pee	er review	
Ward(s): C		2 3 4 4			t Validation:			
		6 7 8						
		N (SCOPE OF PI	· · · · · · · · · · · · · · · · · · ·	:1:4:	-tf 1		1: 4 41	At
Management Plan completion of ann request is subject	/Policy. Iter nual condition to change, b	ms for repair and/o on assessment. Fun	uintain the library far replacement in the ding request is bas assessment in preventer:  ETHER: Exception	ne Budget year ed on historica	will be deternal budgets, life	mined in the e cycle datab	previous year	, upon
PROJECT COS	TS (\$)	2020	Future Phases	NOTES				
					_	•		ainting, ducts,
	/Quote:	125,491	0		support ramp ornhill Villag			ccess ramp
Internal C External Con	•	0	0	(1996), dryv	walls, picket f	ence, doors,	shed	r
	_	-			ionville Libra ntertops, plum			nting
	o Total: Impact:	125,491 2,209	$\frac{0}{0}$		uested is cons			
Total Projec		127,700		Study updat	e.			
	=	127,700	0					
SOURCE(S) OF	FUNDING			Comp	onents			- Future
Funding Type		<b>Budget</b>	Markham Village	Thornhill Village	<u>Union</u>	ville	TOTA	
Operating Funded L	ife Cycle	127,700	40,000	46,900	40,800	(	127,700	0
TOTAL FUND	OING	127,700					127,70	0
OPERATING B	IIDGET IN	Per Per	sonnel Non Pe	ersonnel R	Levenues	Expenditu	res/(Revenue	es)
OTERATING B	ODGET IN	MACI	\$0 \$	0	\$0		\$0	
DCA/LIFE CYC	LE DETA	ILS						
<u>DCA</u>			<b>X</b> 7		Amount in	<u>Life</u>	Cycle	
Name			Yea	ar Amount	Study	– Amou	int in Study:	127,700
						Amou	nt Incl HST	127,700
						Year	in the study	2020
DCA and/or	Life Cycle:	Explain if there is	a change in the yea	ar and/or cost:			•	
		<u> </u>	a change in the year					



# 2020

Page 493 **4f 99** 

PROJECT FUNDING REQUEST FORM	Number:	20075	
	· ·		_

D :					Project C	ost:	\$20,400	
Project Name: Municipal	l Building Backi	flow Prevention	Testing			Repair/Re	eplace	
Commission: Corporate S	Services			Hse	ful Life:		e Approval:	
Department: Asset Mana	gement			Category: M		1 11	c Approvar.	_
Project Mgr: <u>Jason Vasil</u>	aki					1		
Ward(s): $CW \checkmark 1$	2□ 3□ 4□			st Validation: R				
5 🗆	6□ 7□ 8□		Requiremen	t Validation: L	egislative c	ompliance		
DETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):						
Testing of all backflow device is subject to change based on			•	nually as outline	d in By-lav	v 2007-142	. Budget re	quest
BUILDING MARKHAM'S	S FUTURE TOG	ETHER: Safe &	Sustainable Con	mmunity				
PROJECT COSTS (\$)	2020	Future Phases	NOTES					
Cost/Quote:	20,057	0	\$20,400 Test	sting all backflov	v devices ir	istalled wit	hin Markha	m
Internal Charges:	0	0		uested is consist	ent with 20	19 Life Cy	cle Reserve	
External Consulting:	0	0	Study updat	e.				
Sub Total:	20,057	0						
HST Impact:	353	0						
Total Project Cost:	20,400	0						
SOURCE(S) OF FUNDING	<u>G (\$)</u>		Comp	onents				
Funding Type	Budget	Testing				TOT	— <u>Futu</u> AL <u>Pha</u>	
Operating Funded Life Cycle	20,400	20,400	0	0	0	20,40	00	0
TOTAL FUNDING	20,400					20,4	<u>00</u>	0
OPERATING BUDGET II	MPACT Per	rsonnel Non Pe	rsonnel R	evenues E	xpenditur	es/(Revenu	ies)	
		\$0 \$	0	\$0	9	80		
DCA/LIFE CYCLE DETA	ILS							
DCA Name		Ye	ar Amount	Amount in Study	Life (	<mark>Cycle</mark> it in Study:	1,903,30	00
						t Incl HST		
					Year i	n the study		020
DCA and/or Life Cycle:	· Explain if there is	a change in the ve	ar and/or cost		1001	ii uii staaj		
SAM LC program for 20 \$20.4K, Bldg. Condition Salt Dome Demolition st	020 is \$1.778M of a Audit \$144K, Bld	\$1.903M - Corp Se	curity \$701.7k					



# 20

Page 495 **208** 

020 PROJECT FUNDING REQUEST FORM	Г		<b>-</b> '
20 I ROJECI I CHDING REQUESI FORM	Number:	20076	

Program includes various life cycle works to maintain the Operations Facilities in a state of good repair and in alignment to the Asset Management Plan/Policy, Items for repair and/or replacement in the Budget year will be determined in the previous year, upon completion of annual condition assessment. Funding request is based on historical budgets, life cycle database and trending. Budget request is subject to change, based on condition assessment in previous year.  BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People  PROJECT COSTS (\$) 2020 Future Phases  Cost/Quote: 702,142 0 0   1888,900 Annswell Park Well Shed, Berczy Park - Maintenance Bldg, Central Parks Shop, Greenhouses - interlocking/concrete, cabinet/countertops, lighting fixtures, painting, floors, walls, OH doors, furnace, sensors, chemical storge, ventilation, control, \$63,600 Millenium, Milliken Mills & Mintleaf park washrooms, Milne Park shop & ticket booth (painting) - Misc. items \$86,500 Signshop, Toogood Pond Pav., Vic. Sq. Park washrooms Misc. \$375,500 S55 Miller buildings, West Parkshop - Misc. items \$86,500 Signshop, Toogood Pond Pav., Vic. Sq. Park washrooms Misc. \$375,500 S55 Miller buildings, West Parkshop - Misc. items \$80,000 Internal Chargeback.  SOURCE(S) OF FUNDING (\$) Components  Funding Type Budget Answell, Berczy, central parkshop, greenhouses parkshop  Operating Funded Life Cycle 764,500 188,900 63,600 462,000 50,000 764,500 0  TOTAL FUNDING 764,500 Non Personnel Revenues Expenditures/(Revenues)  Operating Budget IMPACT 800 Non Personnel Revenues Expenditures/(Revenues)	Project Name: Operation	ns Facilities Ron	air and/ar Panl	acament Proj	acts	<b>Project Cos</b>	t: \$764	4,500
Department: Asset Management Project Mgr: Colby Brygidyr  Ward(s): Cw   w   1   2   3   4   5   6   7   8   6   7   8   6   7   8   6   7   8   6   7   8   8   6   7   8   8   8   8   8   8   8   8   8			an and/or Kepi	acement 1 10j	———	F	Repair/Replac	ce
Project Mgr: Colby Brygidyr  Ward(s): Cw 2 1 2 3 4 5 7 8 8 7 8 8 7 8 8 7 8 8 8 9 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1	<del></del>				Us	eful Life: 15	Fre Ap	pproval: $\square$
Cost Validation:   Internal peer review   Requirement Validation:   Condition assessment   Requirement Validation:   Condition assessment   Requirement Validation:   Condition assessment   Condition   Cond	·				Category: 1	Major		
Requirement Validation:   Condition assessment		-		Cos	st Validation: 1	Internal peer re	eview	
PROJECT COSTS (\$)  2020  Puture Phases Cost/Quote: 702,142 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Requiremen	t Validation: (	Condition asses	ssment	
Program includes various life cycle works to maintain the Operations Facilities in a state of good repair and in alignment to the Asset Management Plan/Policy. Items for repair and/or replacement in the Budget year will be determined in the previous year, upon completion of annual condition assessment. Funding request is based on historical budgets, life cycle database and trending. Budget request is subject to change, based on condition assessment in previous year.  BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People  PROJECT COSTS (\$) 2020 Future Phases  Cost/Quote: 702,142 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			DOJECT).		_			
State   Cost / Quote: 702,142	Program includes various lift Management Plan/Policy. It completion of annual condit request is subject to change,	fe cycle works to mems for repair and/oion assessment. Fur based on condition	aintain the Operator replacement in adding request is bat assessment in pro	the Budget year ased on historica evious year.	will be determined budgets, life of	ined in the precycle database	vious year, u	pon
Sign   Sign	DDOIFCT COSTS (\$)	2020	Entrus Dhagas	NOTES				
Internal Charges: 50,000								
External Consulting: 0 0 0 0 63,600 Millenium, Milliken Mills & Mintleaf park washrooms, Millenium, Milliken Mills & Mintleaf park washrooms, Millenium, Milliken Mills & Mintleaf park washrooms, Millenium, Milliken Mills & Mintleaf park washrooms, Millenium, Milliken Mills & Mintleaf park washrooms, Millenium, Milliken Mills & Mintleaf park washrooms, Millenium, Milliken Mills & Mintleaf park washrooms, Millenium, Milliken Mills & Mintleaf park washrooms, Millenium, Milliken Mills & Mintleaf park washrooms, Millenium, Milliken,	_							
Sub Total: 752,142 0 HST Impact: 12,358 0 Total Project Cost: 764,500 0 O SO SO SO  Departing Funded Life Cycle 764,500 188,900 So SO  Departing Budget 1MPACT So So So So So So So So So So So So So	•							
HST Impact: 12,358 Total Project Cost: 764,500  SOURCE(S) OF FUNDING (\$)  Funding Type  Budget  Answell, Berczy, central parkshop, parkshop  Operating Funded Life Cycle  764,500  TOTAL FUNDING  Personnel  So So So So So  POCA/LIFE CYCLE DETAILS  DCA Name  Name  Name  Name  Name  Name  Name  Name  Name  Source (S) OF FUNDING (\$)  SOURCE(S) OF FUNDING (\$)  Components  Millicium, Milliken, other sites  Mint. Chargeback TOTAL  Phases  Phases  Phases  Phases  Phases  Phases  Amount in Study: 764,500  Amount in Study: 764,500  Amount in Study: 764,500  Amount Incl HST 764,500  Year in the study 2020  DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:	-							
Total Project Cost: 764,500 0	=							
SOURCE(S) OF FUNDING (\$)  Funding Type  Budget  Answell, Berczy, Central parkshop, parkshop  Operating Funded Life Cycle  764,500  TOTAL FUNDING  764,500  Personnel  Non Personnel  \$0 \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$		<u> </u>		Misc. \$375	,500 555 Mille	r buildings, W		
Funding Type    Budget	Total Project Cost.	764,500	0	\$50,000 Inte	ernal Chargebac	ck.		
Funding Type  Budget  Central parkshop.  Breenhouses  Breenhouses  Parkshop.  Freenhouses  Parkshop.  Breenhouses  Parkshop.  Freenhouses  Fre	SOURCE(S) OF FUNDING	G (\$)		Comp	onents			Future
TOTAL FUNDING 764,500 764,500 764,500 0  OPERATING BUDGET IMPACT 80 80 \$0 \$0  DCA/LIFE CYCLE DETAILS  DCA Name Year Amount in Study: 764,500 Amount Incl HST 764,500 Year in the study 2020  DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:	Funding Type	Budget	central parkshop.	Minkleaf W/R,Milne	other site	s Int. Charget	pack TOTAL	
TOTAL FUNDING 764,500 TOTAL FUNDING 764,500 TOTAL FUNDING 764,500 TOTAL FUNDING 764,500 TOTAL FUNDING 764,500 TOTAL FUNDING 764,500 TOTAL FUNDING 800 TOTAL	Operating Funded Life Cycle	764.500	188,900	63,600	462.000	50,000	764,500	0
So   So   So   So   So   So   So   So			,-	,	,			0
So   So   So   So   So   So   So   So								
DCA Name       Year       Amount in Study       Life Cycle         Amount in Study:       764,500         Amount Incl HST       764,500         Year in the study       2020    DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:	OPERATING BUDGET I	MPACT Per				•	,	
Name  Year Amount Study  Amount in Study: 764,500  Amount Incl HST 764,500  Year in the study 2020  DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:		AILS						
Amount in Study: 764,500  Amount Incl HST 764,500  Year in the study 2020  DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:			v	ear Amount		<u>Life Cy</u>	<u>cle</u>	
Year in the study 2020  DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:	Name		1	cai Amount	Study	Amount i	n Study:	764,500
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:						Amount I	ncl HST	764,500
						Year in t	he study	2020
Amount requested is consistent with 2019 Life Cycle Reserve Study update.	DCA and/or Life Cycle	: Explain if there is	a change in the y	ear and/or cost:				
		-						
	1		J	7 1				

<b>Operations Facilities Improvement</b>													Lifecycle	Budgets a G	Inflation Co. 202
		Major									<no< th=""><th>n Inflated, HS</th><th>ST Inclusive&gt;</th><th>&lt;-Inflated, H</th><th>ST includ 203</th></no<>	n Inflated, HS	ST Inclusive>	<-Inflated, H	ST includ 203
												Α	В	E=A*Inflatio	F=B*Infl^2
Facility	Responsible Name	Operating/C apital	Classification	Class Type	Description	Location	Attributes	Year Installed	Cycle Factor	Year Due	Replacem ent Value	2020	2021	2020 Budget Entry	2021 Budget Entry
Annswell Park Well Shed	ООТ		Civil	Site Features	Interlocking Brick			1950	7	0 2020	9000	9000			
Annswell Park Well Shed	ООТ		Civil	Site Features	Fencing		Chain link with gate	2000	) 2	0 2020	1500				
Berczy Park - Maintenance Bldg	оот		Architectural	Accessories	Washroom Accessories	Public Washroom	Mirror, millwork, toilet, towel dispenser, hand dryer,hand rail	2013	3	7 2020	8000	8000			
Berczy Park - Maintenance Bldg	ООТ		Architectural	Accessories	Washroom Accessories	Staff Washroom	Mirror, millwork, toilet, towel dispenser, hand dryer,hand rail	2013		7 2020		4000			
Berczy Park - Maintenance Bldg Berczy Park - Maintenance Bldg	OOT OOT		Electrical Architectural	Fixtures Painting	Lighting Walls	Exterior Staff Room	Pot Lights - Roof Soffit Concrete Block wall	2013 2013		7 2020 7 2020		4000 2700			
Berczy Park - Maintenance Bldg	00Т		Architectural	Walls	Paint	Public	Concrete Block wall	2013		7 2020		2700			
Berczy Park - Maintenance Bldg	ООТ		Architectural	Ceiling	Drywall	Washrooms Storage Garage	Painting	2013		7 2020	1800	1800			
Berczy Park - Maintenance Bldg	00T		Architectural	Painting	Walls	Storage Garage	Concrete block wall	2013		7 2020		1800			
Berczy Park - Maintenance Bldg	00T		Electrical	Fixtures	Lighting	Exterior	Wall Packs	2013	1	7 2020	1600	1600			
Berczy Park - Maintenance Bldg	00T		Architectural	Walls	Paint	Staff Washroom	Concrete Block wall	2013		7 2020		1350			
Berczy Park - Maintenance Bldg	00T		Architectural	Painting	Walls	Storage Garage	Drywall	2013		7 2020		1100			
Berczy Park - Maintenance Bldg Berczy Park - Maintenance Bldg	00T 00T		Architectural Architectural	Painting Painting	Walls Walls	Storage Garage Mechanical	Drywall Concrete Block wall	2013		7 2020 7 2020		900			
Berczy Park - Maintenance Bldg	ООТ		Architectural	Painting	Walls	Room Storage Garage -	concrete block wall	2013		7 2020		400			
· · · · · · · · · · · · · · · · · · ·				Building		Office Interior and									
Berczy Park - Maintenance Bldg	ООТ		Security	Equipment	Security Systems	Exterior	Automatic. 2 in North	2015	5	5 2020	2000	2000			
Central Parks Shop	ООТ		Building Envelope	Doors	Overhead Door	North and South Workshops	Workshop and 4 in South Workshop	1995				32000			
Central Parks Shop	00T 00T		Furniture	General	Lockers	Locker Room	Metal - full height	1987 1985				14000 8000			
Central Parks Shop	001		Architectural	Millwork	Shelving	Workshop West of	Wood Shelves	1965	) 3	5 2020	8000	8000			
Central Parks Shop	ООТ		Mechanical	Heating	Furnace	Lunchroom, above office	Ceiling suspended furnace	2005				5000			
Central Parks Shop	00T		Electrical	Equipment	Generator	Shop	12 volt, 8.3 amp DC	2006				7000			
Central Parks Shop  Central Parks Shop	00T 00T		Architectural Life Safety	Millwork Fire System	Shelving Detector	Garage Outside Electrical	Wood Shelves	1985 1990				2000			
Central Parks Shop	ООТ		Architectural	Millwork	Shelving	Room Chemical Storage	Motal Shalvas	1985				2500			
·				Security	_	Interior and	ivietai Sileives								
Central Parks Shop	ООТ		Security Building	System	Security System	Exterior	Thin aluminum siding with no	2015		5 2020					
Central Parks Yard Storage Shed	ООТ		Envelope Building	Walls	Metal Siding		insulation	1985				11000			
Central Parks Yard Storage Shed	00Т		Structure	Posts	Wood		Wood Post Repairs	1985				5000			
Central Parks Yard Storage Shed	ООТ		Electrical Building	Outlets			Exterrior outlets	1985				2000	+		
Greenhouse- Centre	00T		Envelope	Walls	Plastic	Exterior Wall	Repairs to Plastic Covering	2012	<u></u>	8 2020	5000	5000	<u> </u>		
Greenhouse- Centre	OOT		Mechanical	Heating	Furnace		Furnace	1999	2	1 2020	2000	2000			
Greenhouse- Centre	ООТ		Building Envelope	Doors	Doors	Exterior	Galvanized steel frame with plastic sheet	1987	3	3 2020	1500	1500			
Greenhouse- Centre	ООТ		Civil	Site Features	Walkway	Interior	Square pavement slabs	1987	3	3 2020	1500	1500			
Greenhouse- Centre	ООТ		Electrical	Fixtures	Lighting		Incandescent Vapourtight pendant hung Jar light	2000	2	0 2020	850	850			
Greenhouse- Centre	ООТ		Electrical	Equipment	Controller	North Wall	Residential grade programmable controller	2000	2	0 2020	300	300			
Greenhouse- Northeast	ООТ		Building	Doors	Doors	Exterior	Galvanized steel frame with	1987	3	3 2020	1200	1200			
Greenhouse- Northeast	ООТ		Envelope  Building Envelope	Walls	Polycarbonate Sheets and cedar lintels	Vestibule walls and ceiling between Centre and Northeast greenhouse	plastic sheet  Hard transparent sheets in vestibule locations	2008	3 1	2 2020	5000	5000			

<b>Operations Facilities Improvement</b>													Lifecycle	Budg <b>et</b>	Inflations 0.02
		Major									<non< th=""><th>Inflated, HS</th><th>T Inclusive&gt;</th><th>1 420</th><th>ST includ</th></non<>	Inflated, HS	T Inclusive>	1 420	ST includ
											А		В	E=A*Inflatio	F=B*Infl^2
Facility	Responsible Name	Operating/C apital	Classification	Class Type	Description	Location	Attributes	Year Installed	Cycle Factor	Year Due	Replacem ent Value	020	2021	2020 Budget Entry	2021 Budget Entry
Greenhouse- Northwest	ООТ		Building Envelope	Walls	Wroof	Exterior	Galv. steel frame with plastic sheet	2000	20	2020	5000 5	000			
Greenhouse- Southcentre	OOT		Mechanical	Ventilation	Exhaust Fan	South Wall	Wall propeller exhaust fan	2004							
Greenhouse- Southcentre	ООТ		Mechanical Building	Heating	Furnace	Interior	Furnace Galv. steel frame with plastic	1995					+		
Greenhouse- Southcentre	ООТ		Envelope Building	Doors	Doors	Exterior	sheet Galv. steel frame with plastic	2000							
Greenhouse- Southcentre	ООТ		Envelope	Doors	Doors	Exterior	sheet	2000			2000 2	000			
Greenhouse- Southeast	00T		Mechanical	Ventilation	Exhaust Fan	South wall	Wall propeller exhaust fan	1987							
Greenhouse- Southeast	ООТ		Mechanical	Ventilation	Dampers	North Wall	Dampers @ intake louvres	2005	15	2020	3000 3	000	<del>                                     </del>		
Greenhouse- Southeast	ООТ		Electrical	Equipment	Controller	North Wall	6 station, dual programmable water controller and poly drip piping system	2000	) 20	2020	2500 2	500			
Greenhouse- Southeast	ООТ		Mechanical	Controls	Thermostat	Interior	Heating & Ventilation Control	2000	20	2020	2500 2	500			
Greenhouse- Southeast	ООТ		Architectural	Flooring	Above Gravel	Interior	Poly flooring above Gravel base	1987	7 33	2020	2000 2	000			
Greenhouse- Southeast	ООТ		Electrical	Fixtures	Lighting	Interior	Incandescent Vapourtight pendant hung Jar light	2000	20	2020	600 6	00			
Greenhouse- Southwest	ООТ		Building Envelope	Doors	Doors	Exterior	Galvanized steel frame with plastic	1987	33	2020	1500 1	500			
Greenhouse-Southwest	ООТ		Building Envelope	Walls	Polycarbonate Sheets and cedar lintels	Vestibule walls and ceiling between Centre and Northeast greenhouse	Hard transparent sheets in vestibule locations	2008	3 12	2020	2000 2	000			
Greenhouse- Southwest	ООТ		Electrical	Fixtures	Lighting	Interior	Incandescent Vapourtight pendant hung Jar light	2000	20	2020	600 6	00		188,900	
Millenium Park Washrooms	ООТ		Mechanical	Plumbing	Washroom Fixtures		1 toilet and 1 sink in each washroom	2000	20	2020	4000 4	000			
Millenium Park Washrooms	ООТ		Mechanical	Building Equipment	Automatic Door Opener	Accessible Washroom	Electric Hinge type	2000			3200 3	200			
Millenium Park Washrooms	OOT		Mechanical	Accessories	Air Dryer	Bobrick	Hand dryers. 20A, 115V	2000							
Millenium Park Washrooms	ООТ		Architectural	Flooring	Concrete Sealing	Throughout	2-2L-T8 in Utility Room.	2000					_		
Millenium Park Washrooms	ООТ		Electrical	Fixtures	Lighting		Sodium lights in washrooms	2000				500			
Millenium Park Washrooms	ООТ		Mechanical	Plumbing	Drinking Fountain	Exterior - North		2000				500			
Millenium Park Washrooms	00T		Electrical	Distribution	Timer	Utility Room	Timer for pole light	2000							
Millenium Park Washrooms  Millenium Park Washrooms	00T 00T		Mechanical Electrical	Ventilation Bldg	Exhaust Fan Heater	Utility Room		2000							
Milliken Mills Park Washrooms	ООТ		Electrical	Equipment Distribution	Splitter	North Utility		1990							
Milliken Mills Park Washrooms	ООТ		Electrical	Distribution	Electrical Panel	Room North Utility	42 CCT	1990		2020	3000 3	000			
Milliken Mills Park Washrooms	ООТ		Electrical	Equipment	Control Panel	Room North Utility	Irrigation Pump Control	1990	30	2020	3000 3	000			
Milliken Mills Park Washrooms	ООТ		Electrical	Fixtures	Lighting	Room West Storage Room	T8 - 4'-2lamp fixtures	2007	7 13	2020	2000	000			
Milne Park Ticket Booth	ООТ		Architectural	Painting	Interior		Drywall painted, exterior trim, stained siding	2015	5 5	2020	2000	000			
Milne Parks Shop	ООТ		Architectural		Exterior	Shop	Metal walls and OH door jambs	2015			-	000			
	122.						,	2010		2020	3000				
Milne Parks Shop	С		Civil	Site Features	Fencing	Work Yard Perimeter	Chain Link	1985	5 35	2020	4500				
Milne Parks Shop	ООТ				Vinyl	Lunchroom	Panels with wood battens	1995				500			
							Office, Storage Cabinet,				2				
Milne Parks Shop	OOT		Architectural	Accessories	Doors	Interior	DHW room door	2000	20	2020	2500				

<b>Operations Facilities Improve</b>	ment												Lifecycle	Budget a Of	. Indiations are
		Major									<noi< th=""><th>n Inflated, H</th><th>ST Inclusive&gt;</th><th>&lt;-Inflated, H</th><th>ST includ</th></noi<>	n Inflated, H	ST Inclusive>	<-Inflated, H	ST includ
		.,.										A	В	E=A*Inflatio	
acility	Responsible Name	Operating/C apital	Classification	Class Type	Description	Location	Attributes	Year Installed	Cycle Factor	Year Due	Replacem ent Value	2020	2021	2020 Budget Entry	2021 Budget Entry
Milne Parks Shop	ООТ		Architectural	Walls	Drywall	Washrooms, Garage		2000	) 20	2020	2500	2500			
Milne Parks Shop	ООТ		Architectural	Accessories	Doors	Interior	Double door between garage & lunchroom	2000	) 20	2020	1500	1500			
Milne Parks Shop	ООТ		Electrical	Distribution	Meter Cabinet	Exterior - west wall	meter, cabinet, conduit	1995	5 25	5 2020	1500	1500			
Milne Parks Shop	OOT		Electrical	Fixtures	Lighting	Exterior	Sodium	1995	5 25	5 2020	1500	1500			
Milne Parks Shop	ООТ		Architectural Building	Accessories	Doors	Interior	Washroom doors Exterior Painted Metal Door	2000	) 20	2020	1200	1200			
Mintleaf Park Washroom	ООТ		Envelope	Doors	Doors		(3'x7')	1990	30	2020	2500	2500			
Mintleaf Park Washroom	ООТ		Building Envelope	Walls	Stucco	Exterior Wall	3 inch concrete wall and 1.5 inch stucco	1990	30	2020	2000	2000			
Mintleaf Park Washroom	ООТ		Mechanical	Plumbing	Washroom Fixtures		Reinstallation of Toilets	1990	30	2020	1700	1700			
Mintleaf Park Washroom	ООТ		Architectural	Painting	Interior		Painting of Interior, exterior and doors	2004	16	5 2020	1600	1600			
Mintleaf Park Washroom	ООТ		Mechanical	Plumbing	Washroom Fixtures		Urinal with automatice flash	1990	) 3(	2020	1200	1200			
Mintleaf Park Washroom	ООТ		Architectural	Flooring	Concrete Sealing			1990	30	2020	1000	1000			
Mintleaf Park Washroom	ООТ		Mechanical	Plumbing	Washroom Fixtures		Sinks	1990	30	2020	500	500		63,600	
Drivense Charact Banks Chara	6		Chall	Site	Famalan		Chain Link - repair	1005	. 21	- 2024					
Princess Street Parks Shop	C		Civil	Features Security	Fencing		Entrance system, motion sensors, control panel, card	1995	25	2020	6000	5000			
Sign Shop	ООТ		Life Safety	System	Security System	Throughout	readers	2005	15	2020	5000				
sign Shop	ООТ		Mechanical	Shop	Air Compressor	Storage		1990	30	2020		2500			
Sign Shop	ООТ		Building Envelope	Walls	Window	Exterior wall	Prefinished metal	1988				2100			
Sign Shop	ООТ		Electrical		Transformer	Electrical Service Area	Transformer to 600volts for roof top A/C	1988							
ign Shop	OOT		Architectural	Flooring	Wood	Mezzanine	Plywood	1988			1500	1500			
Sign Shop	ООТ		Architectural	Millwork	Cabinets	Workshops	Wood storage cabinets	1988							
iign Shop	ООТ		Civil	Site Features	Bollard	Exterior	Steel - concrete filled	1988	3	2 2020	1500	1500			
iign Shop	ООТ		Electrical	Distribution	Disconnect Switch	Electrical Service Area	Fused Switch - Industrial	1988			1500	1500			
iign Shop	OOT		Furniture	General	Lockers	Workshop	Metal units	1988	32	2 2020	1500	1500			
iign Shop	ООТ		Mechanical	Shop	Air Compressor	Office		1988	3 32	2 2020		1500			
Sign Shop	ООТ		Electrical	Fixtures	Lighting	Exterior Building	Wall mounted building light	1988				1200			
							Metal storage shelves - (for					1000			
iign Shop	ООТ		Architectural	Millwork	Shelving	Workshop	signs)	1988	32	2 2020	1000				
ign Shop	ООТ		Mechanical	Shop Equipment	Grinder	Workshop		1988	32	2 2020	1000	1000			
				Shop								1000			
Sign Shop	ООТ		Mechanical	Equipment	Drill Press	Office		1990					<u> </u>		
Sign Shop	ООТ		Mechanical	Heating	Heater	South Shop	Unit Heater- Gas	2000	20	2020	1000	1000			

<b>Operations Facilities Improvement</b>												Lifecycle	Budget a Cr	Anflation 200
		Major									<non h<="" inflated,="" th=""><th>IST Inclusive&gt;</th><th>&lt;-Inflated, H</th><th>ST includ</th></non>	IST Inclusive>	<-Inflated, H	ST includ
		,									A	В	E=A*Inflatio	
acility	Responsible Name	Operating/C apital	Classification	Class Type	Description	Location	Attributes	Year Installed	Cycle Factor	Year Due	Replacem ent Value 2020	2021	2020 Budget Entry	2021 Budget Entry
Sign Shop	ООТ		Electrical	Distribution	Splitter	Electrical Service Area	4'-0" splitter c/w termination bus & lugs	1988	32	2020	500			
To a considerate David David When	007		Building	Marilla.	NAC al		Delinted was all assessing	4000		2020	12000			
Toogood Pond Pavillion Toogood Pond Pavillion	00T 00T		Envelope Architectural	Walls Walls	Window Partitions	Washrooms	Painted wood awning Solid phenolic units	1983 2005						
Foogood Pond Pavillion	00T		Mechanical	Heating	Heater	Activity Room	Electric wall heaters	1990						
Toogood Pond Pavillion	ООТ		Building					1995			5000			
Toogood Pond Pavillion	00T		Envelope Electrical	Doors Fixtures	Door Lighting	Washrooms Interior	Replacment metal doors T8-2L-4'	2000						
Toogood Pond Pavillion	00T		Electrical		Lighting	Exterior	MH	2000						
Toogood Fortal Extinori	001	1	Licctrical	Site	Ligiting	South and east	Wood fence - 4'high 105'	2000	/ 20	2020	3000 3000			
Toogood Pond Pavillion	ООТ	1	Civil	Features	Fencing	exterior	long	2000	20	2020	2100	_		
Victoria Square Park Washrooms	ООТ		Building Envelope	Walls	Window		2'x3' each window	1990	30	2020	4800			
			Building				Hollow metal doors with				2500			
Victoria Square Park Washrooms	ООТ		Envelope	Doors	Door Disconnect	Mens	frame	1990	30	2020				
Victoria Square Park Washrooms	ООТ		Electrical	Distribution		Washroom		1990	30	2020	2000 2000			
Victoria Square Park Washrooms	ООТ		Electrical	Fixtures	Lighting		T8-2L-4' fixtures	1990	30	2020				
Victoria Square Park Washrooms	OOT		Mechanical	Fixtures	Plumbing		Male Washroom	1990						
Victoria Square Park Washrooms	00T		Mechanical	Fixtures	Plumbing		Female Washroom	1990	30	2020	4800 4800		86,500	
							Faced with vapour retardant				10000			
West Parks Shop	OOT		Architectural	Ceiling	Insulation	Garage	liner	1970			10000			
West Parks Shop	ООТ		Architectural	Millwork	Wood		Painted Wood	1990	30	2020	5000 5000			
West Parks Shop	ООТ		Building Envelope	Walls	Window	Exterior	Prefinished metal.	1973	47	7 2020	4000 4000			
West Parks Shop	OOT		Architectural	Walls	Drywall	Interior	Drywall partitions	2015		2020	5000 5000			
West Parks Shop	ООТ		Building Envelope	Walls	Sealant	Exterior	Caulking	2012	. 8	3 2020	2000			
West Parks Shop	ООТ		Architectural	Accessories	Doors	Interior	Solid core wood door - painted	1970	50	2020	1500 1500			
Works Yard- Domes	ООТ		Building Envelope	Doors	Door	South Dome #3	Sealed wood door with frame	1990	30	2020	2500			
						Gas Pump	Pole mounted light c/w 12'				2200			
Works Yard- Main Building	OOT		Electrical	Fixtures	Lighting	Island	pole	1980	40	2020	2200			
Works Yard- Main Building	ООТ		Mechanical	Pumps	Pump (Recirculation)	Boiler Room- Upper Unit	For Raypak radiation heater boiler	1995	25	2020	2500			
						Fire Bay - Mezzanine Level Compressor					3500			
Works Yard- Main Building	ООТ		Mechanical	Ventilation	Exhaust Fan	Room Main office	Exhaust Fan 'EF-14'	1980	40	2020	3500			
Works Yard- Main Building	ООТ		Electrical	Distribution	Electrical Panel	storage/electric al room	225A, 3PH, 4W, 120/208V, 42cct	1990	30	2020	4000			
						Waterworks	With volume box and t-stat				10000			
Works Yard- Main Building	ООТ		Mechanical	HVAC	HVAC	Roof	for Waterworks Offices	2005	15	2020				
Works Yard- Main Building	ООТ		Building Envelope	Doors	Overhead Door	Fire Bay- Garage	Steel with window inserts	1980	40	2020	40000 37000			
Works Yard- Main Building	ООТ		Building Envelope	Doors	Overhead Door	Wash Bays	Plastic units	1980	40	2020	50000			
WORKS TOTAL WIGHT DUNGTING	301		Livelope	20013	Radiation	**asii bays	riastic units	1300	40	2020				
Works Yard- Main Building	ООТ		Mechanical	Heating	Heating	Office Areas	Perimeter Wallfin Radiation	1980	40	2020	49500 46500			

Operations Facilities Improvement	nt												Lifecycle	Budgets_	Inflation	ممود
		Major		+	+						< No	n Inflated US	-	- Inflated Si	Anflation ST includ	<del>177</del>
		Wiajoi	+	+			-				\IVO	n Inflated, HST Inclusive> A B		E=A*Inflatio	F=B*Infl^2	
Facility		Operating/C apital	Classification	Class Type	Description	Location	Attributes	Year Installed		Year Due	Replacem ent Value	2020	2021	2020 Budget		
Works Yard- Main Building	ООТ		Building Envelope	Doors	Overhead Door	Waterworks- Garage	Steel with window inserts	1980	40	2020	60000	60000				
-			Building													
Works Yard- Main Building	ООТ		Envelope	Doors	Overhead Door	Works- Garage	Steel with window inserts	1980	40	2020	120000					
Works Yard- Main Building	ООТ		Mechanical	Building Equipment	Door Opener	Wash Bay- East		1980	40	2020		2000				
Works Yard- Waterworks Storage Shed	С		Architectural	Flooring	Concrete	Interior	Sealed concrete	1985	35	2020	20500	20500		375,500		
	ООТ						Balance					35489	0		-	
										TOTAL =	749,800	749,509	0	714,500	0	1
									Co				JM(C,D) /1.0176	702,142		
													ernal Chargeback	50,000		
												Ext	ternal Consulting Contingency			
													contingency			
													Subtotal	752,142		
													HST Impact=	12,358		
													Total	764,500	0	)
														764,500	0	)
								-								
								+								
											-					
		<del>                                     </del>							-							-



Page 503**209** 

<b>V</b> ARKHAM	2020 PROJ	ECT FUND	ING REQU	UEST FO	<i>RM</i> Nu	mber:	20	0077			
_	na Enal Sitaa Ma	<b>:</b> 4			Project C	ost:	\$75	,200			
Project Name: Operation	ns Fuel Sites Mo	mtoring			Repair/Replace						
Commission: Corporate S	Services			Ţ	Jseful Life:	0	Pre An	proval:			
Department: Asset Mana				Category:							
Project Mgr: Vicky Char			Co		n: Third party estimate						
Ward(s): $CW \boxed{\bullet} 1$				: Legislative compliance							
5 🗆		Requiremen	it vandation.								
DETAILED DESCRIPTION											
This project is a carryover find monitoring required by arks (MECP) at 555 Miller	Technical Standard c, 428 John St. and	s and Safety Author 4415 14th Ave.		nd The Minist							
			NOTES	•							
PROJECT COSTS (\$)	These are estimates only and requirements by legislative							e authoritie			
Cost/Quote:	10,000	0	(TSSA and MECP) may change depending upon test results. This is a projected 3 year monitoring program. Amount requested is consistent with 2019 Life Cycle Reserve Study update.								
Internal Charges:	0	0									
External Consulting:	63,850	0									
Sub Total:	73,850	0									
HST Impact:	1,300	0									
Total Project Cost:	75,200	0									
OURCE(S) OF FUNDING	G (\$)		Comp	onents				Futuno			
unding Type	<u>Budget</u>					<u>TO</u>	TAL	<u>Future</u> <u>Phases</u>			
perating Funded Life Cycle	75,200	0	0	0	0		0	0			
TOTAL FUNDING	75,200						0	0			
	Per	rsonnel Non Po	ersonnel R	levenues	Expenditure	es/(Reve	enues)				
OPERATING BUDGET I	MPACT	\$0	\$0	\$0	_	\$0	,				
CA/LIFE CYCLE DETA	AILS		·			<u>'                                    </u>					
<u>DCA</u>				Amount in	Life (	Cycle					
Name		Ye	ear Amount	Study		mount in Stud		357,700			
						t Incl H	• =	75,200			
								73,200			
					rear 1	n the stu	uy				
DCA and/or Life Cycle	: Explain if there is	a change in the ye	ear and/or cost:								



Page 505 **5** 388

MARKHA	M 2020 PROJECT FUNDING REQUEST FORM	Number:	20078	]
Project Names Otl E	<b>y</b>	ect Cost:	\$211,300	
Toject Name: Other Fac	her Facilities Repair and/or Replacement Projects	Repair/Replace		

roject ivanic.	Other Facilities Repair and/or Replaceme	mt Projects		Repa	ir/Replace	
Commission:	Corporate Services	I	Jseful Life:	10	Pre Approval:	
=	Asset Management Khwaja Waker	Category:		10	Tie Approvai.	
3 0	CW ♥ 1 □ 2 □ 3 □ 4 □	Cost Validation: Other(specify in Notes)				
	5 6 7 8	Requirement Validation:	Condition a	ent		

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

Program includes various life cycle works to maintain various other facilities in a state of good repair and in alignment to the Asset Management Plan/Policy. Items for repair and/or replacement in the Budget year will be determined in the previous year, upon completion of annual condition assessment. Funding request is based on historical budgets, life cycle database and trending. Budget request is subject to change, based on condition assessment in previous year.

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	207,645	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	207,645	0
HST Impact:	3,655	0
Total Project Cost:	211,300	0

**NOTES** \$39,700 Craft Guild - flooring (1991), millworks (1992), plumbing (1980)\$22,100 Elson Miles Farmhouse -flooring (1985), AC (1985), Crosby Booth - painting, millworks, fire detectors (1990-2011) \$149,500 9829 Ninth Line - bridge (1990), 7107 Reesor Rd - floor (1975), paint (2012), exterior wall/siding (1983), 7181 Reesor Road- exterior wall/siding (1975), septic tank(1985) Amount requested is consistent with 2019 Life Cycle Reserve Study update.

SOURCE(S) OF FUNDING (\$	<u></u>		Comp	oonents			Entuno
Funding Type	<b>Budget</b>	Craft Guild	Elson Miles Farmhouse, Crosby			<b>TOTAL</b>	<u>Future</u> <u>Phases</u>
		•	Food Boot				
Operating Funded Life Cycle	211,300	39,700	22,100	149,500	0	211,300	0
TOTAL FUNDING	211,300				=	211,300	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

## **DCA/LIFE CYCLE DETAILS DCA** Amount in Life Cycle Year **Amount** Name Study Amount in Study: 211,300 211,300 Amount Incl HST Year in the study 2020 DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 507**2 3** 

\$212,400

Number:	20080
---------	-------

**Project Cost:** 

Project Name. PVC Sait		<b>,11</b>				Repair/R	eplace	
Commission: Corporate S				Ţ	Jseful Life:	0 P	re Appro	val:
Department: Asset Mana	agement			Category:	Minor		11	
Project Mgr:			C	ost Validation:		estimate		
	2 3 4 4			ent Validation:				
5 🗆	6 □ 7 □ 8 🗹		1					
DETAILED DESCRIPTION								
The PVC Salt Dome at the 5 f structural repairs, (\$220K construct a new Salt Barn in f a new ramp for the 2 new	(a) in order for the but 2019. This project	uilding to remain i	n use. The C	ity opted to der	nolish this 39	year old st	ructure a	nd
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Safe &	z Sustainable C	Community				
PROJECT COSTS (\$)	2020	Future Phases	NOTES Costs incl	ude demolition	of the building	na structure	foundat	ion and
Cost/Quote:	198,000	0		d connections,				
Internal Charges:	10,890	0	constructi	on of new loadi	ng ramp. *T			
External Consulting:	0	0	with no de	esign work for b	ackground.			
Sub Total:	208,890	0						
HST Impact:	3,485	0						
Total Project Cost:	212,400	0						
OURCE(S) OF FUNDING	G (\$)		Com	ponents			_	
unding Type	<u>Budget</u>					TOT	_	<u>uture</u> <u>Phases</u>
perating Funded Life Cycle	212,400	0	0	0	(	)	0	0
TOTAL FUNDING	212,400						0	0
OPERATING BUDGET I	MPACT Per			Revenues	Expenditu		ues)	
OCA/LIFE CYCLE DETA	AILS	\$0	\$0	\$0		\$0		
<u>DCA</u>		V	ear Amour	Amount in	<u>Life</u>	Cycle		
Name		10	ar Allioui	t Study	— Amou	nt in Study	: 2,40	8,500
					Amou	nt Incl HS7	21	2,400
					Year	in the study	у	2020
DCA and/or Life Cycle	: Explain if there is	a change in the ve	ar and/or cos	t:				
This project is funding b					rom Roofing	Replaceme	ent.	
r G	,	,				· r · · · ·		
								1



Page 509 **9** 

<u> YIARKHAM</u>			- ·		Numb	oer: 20	0081
Project Name: Recycling	Danate Panair	and/or Ranlacom	ant Projects	,	<b>Project Cost</b> :	\$31,	300
		and/or Replacen	ieni Projecis	<b>)</b>	Re	epair/Replace	e
Commission: Corporate S				Ţ	Jseful Life: 7	Pre Ap	proval:
Department: Asset Mana				Category:	Minor	1.	L
Project Mgr: Khwaja Wa			Cos	• •	Other(specify in	Notes)	
	2 3 4 4				Condition assess	· · · · · · · · · · · · · · · · · · ·	
	6□ 7□ 8□		1				
DETAILED DESCRIPTION			1	. 6 1			
rogram includes various life Management Plan/Policy. Ite completion of annual conditi equest is subject to change, BUILDING MARKHAM'S	ems for repair and / on assessment. Fur based on condition	or replacement in the ding request is base assessment in prev	he Budget year ed on historica	will be deter ll budgets, life	rmined in the preve cycle database a	vious year, uj	pon
				•			
ROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	<b>NOTES</b> \$4,590 Recy	cling Program	m Containers		
Cost/Quote:	30,759	0	\$2,230 Tho	nhill Recyclin	ng Depot heater		
Internal Charges:	0	0			cling Depot sidin		ecerve
External Consulting:	0	0	Study updat		distent with 2017	Life Cycle K	.CSCI VC
Sub Total:	30,759	0					
HST Impact:	541	0					
Total Project Cost:	31,300	0					
OURCE(S) OF FUNDING	<u> </u>		Comp	onents			E4
unding Type	<u>Budget</u>	Recycling Program Containers	Thornhill Recycling Depot heater		ing epot	TOTAL	Future Phases
perating Funded Life Cycle	31,300	4,590	2,230	24,480	0	31,300	0
TOTAL FUNDING	31,300				=	31,300	0
	Per Per	rsonnel Non Pe	rsonnel R	evenues	Expenditures/(	(Revenues)	
OPERATING BUDGET II	<u>MPACI</u>	\$0 \$	0	\$0	\$0		
CA/LIFE CYCLE DETA	<u>ILS</u>						
<u>DCA</u>				Amount in	Life Cyc	<u>le</u>	
Name		Yea	ar Amount	Study	— Amount in	ı Study:	31,300
					Amount In	• =	31,300
					Year in th		2020
DCA and/or Life C1	Evaloin if those is	a ahanga in the	or and/or asst:		i cai iii u	ie stady	2020
DCA and/or Life Cycle:	Explain II there is	a change in the yea	ai anu/or cost:				



# *202*

Page 511 6 88

0 PROJECT FUNDING REQUEST FORM	Number:	20082	ry
Pro	oject Cost:	\$143,400	

Project Name: Roofing N	<b>Maintenance and</b>	Repair			ŭ	<u>Ψ2 10</u>	,,
						Repair/Replace	e
Commission: Corporate S				J	Jseful Life:	1 Pre Ap	proval: $\square$
Department: Asset Mana				Category:	Annual		
Project Mgr: Michael Ry			Cos	st Validation:	Recent awa	rds	
	2 3 4 5		Requiremen	t Validation:	Condition a	ssessment	
	6 7 8		1				
DETAILED DESCRIPTION		· · · · · · · · · · · · · · · · · · ·					
Project scope includes annua	al routine maintena	nce and on demand	roof leak repa	irs at all City	of Markham	facilities.	
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Except	ional Services by	y Exceptional I	People		
PROJECT COSTS (\$)	2020	Future Phases	NOTES				
Cost/Quote:	140,920	0			sistent with 20	019 Life Cycle I	Reserve
			Study update	e.			
Internal Charges: External Consulting:	0	0					
-							
Sub Total:  HST Impact:	140,920	$\frac{0}{0}$					
Total Project Cost:	2,480						
=	143,400	0					
SOURCE(S) OF FUNDING	<u>G (\$)</u>		Comp	onents			Future
Funding Type	Budget	Maintenance & Repair	On Demand/Consulting			TOTAL	Phases
Operating Funded Life Cycle	143,400	91,800	51,600	0	(	143,400	0
TOTAL FUNDING	143,400					143,400	0
	Per	sonnel Non Pe	ersonnel R	evenues	Expenditu	res/(Revenues)	
OPERATING BUDGET I	<u>MPACT</u>		60	\$0	•	\$0	
DCA/LIFE CYCLE DETA	AILS	40		Ψ0			
DCA				Amount in	Life	Cycle	
Name		Ye	ar Amount	Study		nt in Study:	<b>506 000</b>
						•	596,900
						nt Incl HST	143,400
					Year	in the study	2020
DCA and/or Life Cycle							
LC has \$91,800 for main	ntenance & \$505,10	00 for replacement.	This budget u	ises \$91,800 t	from mainten	ance LC and \$5	1,600 from
replacment LC.							



Page 513

<b>Number:</b>	20083

**Project Cost:** \$410,700 Project Name: Roofing Replacement Projects Repair/Replace Commission: Corporate Services Pre Approval: Useful Life: 20 Department: Asset Management Category: Major Project Mgr: Michael Ryan Cost Validation: Internal peer review CW ✓ 1 □ 2 □ 3 □ 4 □ Ward(s): Requirement Validation: Condition assessment 5 6 7 8 **DETAILED DESCRIPTION (SCOPE OF PROJECT):** This project includes roofing and accessories replacement works at various locations throughout the City in a state of good repair and in alignment to the Asset Management Plan/Policy. Roofs for replacement in the budget year will be determined in the previous year, upon completion of annual condition assessment. Funding request is based on historical budgets, life cycle database and trending. Budget request is subject to change, based on condition assessment in previous year. Exceptional Services by Exceptional People **BUILDING MARKHAM'S FUTURE TOGETHER:** NOTES **PROJECT COSTS (\$)** 2020 **Future Phases** \$114,200 Old Unionville Library & CC (1967) and Markham Cost/Ouote: 388,856 0 Train Station cedar shingles (2001) required per Heritage \$91,800 German Mills CC (2005) & Warden House chimneys if **Internal Charges:** 15,000 0 necessary (1969) & asphalt shingles (2004). **External Consulting:** 0 \$189,700 Toogood Pond Pavilion BUR (2003) cedar shingles (2010), Fire Station 92 BUR (2011), Thornhill Recycling Depot Sub Total: 403,856 0 modified bitumen roofs (1985) and accessories 0 **HST Impact:** 6,844 \$15,000 Internal Chargeback. Amount requested is consistent with **Total Project Cost:** 410,700 0 2019 Life Cycle Reserve Study update. SOURCE(S) OF FUNDING (\$) **Components Future** Toogood Pd, FS92, Int. Chargeback TOTAL Funding Type OULCC, Mkhm German Mills, **Phases Budget** Train Stn Thrnhll Revel Depot Operating Funded Life Cycle 0 410,700 114,200 91.800 189,700 15,000 410,700 410,700 410,700 TOTAL FUNDING 0 Personnel Non Personnel Revenues **Expenditures/(Revenues) OPERATING BUDGET IMPACT** \$0 \$0 \$0 \$0 DCA/LIFE CYCLE DETAILS **DCA** Amount in Life Cvcle Year **Amount** Study Name Amount in Study: 505,100 Amount Incl HST 410,700 Year in the study 2020 DCA and/or Life Cycle: Explain if there is a change in the year and/or cost: LC has \$505,100 for roofing replacement. This budget uses \$410,700 for roofing replacement, defers \$42,800 for Cedar Grove CC roof replacement, and supplements \$51,600 to roofing maintenance budget.



Page 515 **22** 28

20084

Number:

			Cost:	\$143,200	
Project Name: Satellite Comm	unity Centre Repair and/or Replacement	<b>.</b>		Ψ143,200	
			Repa	air/Replace	
Commission: Corporate Services		Useful Life:	15	Pre Approval:	
Department: Asset Managemen	<u>t</u>	y: Minor		11	
Project Mgr: Sameem Shah		•			
Ward(s): $CW \checkmark 1 2 \square$	Cost Validatio	on: Other(specify i		n Notes)	
5 □ 6 □	Requirement Validation	n: Condition a	assessm	nent	
5 □ 6 □	/ 🗆 🐧 🗀				

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

Program includes various life cycle works to maintain the satellite community centres in a state of good repair and in alignment to the Asset Management Plan/Policy. Items for repair and/or replacement in the Budget year will be determined in the previous year, upon completion of annual condition assessment. Funding request is based on historical budgets, life cycle database and trending. Budget request is subject to change, based on condition assessment in previous year.

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2020</u>	Future Phases
Cost/Quote:	140,723	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	140,723	0
HST Impact:	2,477	0
Total Project Cost:	143,200	0

### NOTES

\$92,600 Box Grove CC flooring, walls, millworks, plumbing, foundation waterproofing

\$24,500 Markham Train Station flooring (2001)

\$26,100 Victoria Square CC flooring, lighting, heating

Any upgrades beyond standard finishes are the responsibilities of the Board

Amount requested is consistent with 2019 Life Cycle Reserve Study update.

SOURCE(S) OF FUNDING (\$)		Components					Entuno
Funding Type	<u>Budget</u>	Box Grove CC	Markham Train Station			TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	143,200	92,600	24,500	26,100	0	143,200	0
TOTAL FUNDING	143,200				=	143,200	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OTERATING BUDGET IVITACT	\$0	\$0	\$0	\$0	

# DCA | Year | Amount in Study | Amount in Study | Amount in Study | Amount in Study | 143,200 | Amount Incl HST | 143,200 | Year in the study | 2020 | DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Number

TIV SI SI SI	1/ AL 1		- 11		
Project Name: <b>Tennis Clubhouse Repair and/or Repla</b>		aamant Dusiaata	Project (	Cost:	\$38,600
i roject ivanic.	Tennis Ciubnouse Repair and/or Repiae	cement Projects		Repai	r/Replace
Commission:	Corporate Services	т.	TC-1 I :C	10	Pre Approval:
Department:	Asset Management	C	Jseful Life:	10	rie Approvai: □
=	Sameem Shah	Category:	Minor		
Ward(s):		Cost Validation:	Internal pee	r review	7
ward(s).		Requirement Validation:	Condition a	ssessmei	nt
	5 🗆 6 🗆 7 🗆 8 🗆	<b>4</b>			
ETAILED DE	ESCRIPTION (SCOPE OF PROJECT):				
rogram include	s various life cycle works to maintain the Tenni	is Clubhouses in a state of good	l repair and i	n alignm	ent to the Asset
Ianagement Pla	n/Policy. Items for repair or/and replacement i	n the Budget year will be deter	mined in the	previous	s year, upon
ompletion of an	nual condition assessment. Funding request is b	pased on historical budgets, life	cycle databa	ase and t	rending. Budget
equest is subjec	t to change, based on condition assessment in p	revious year. Amount requested	d is consister	nt with 2	019 Life Cycle
eserve Study u	pdate.				

BUILDING MARKHAM'S FUTURE TOGETHER:	Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2020</u>	Future Phases
Cost/Quote:	37,932	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	37,932	0
HST Impact:	668	0
Total Project Cost:	38,600	0

### **NOTES**

\$2,040 Armadale Tennis Clubhouse exterior wood trim painting \$8,960 Box Grove Tennis Clubhouse doors and siding replacement and painting

\$12,240 Pomona Valley Tennis Clubhouse exterior sealant and windows

\$15,360 Unionville Tennis Clubhouse painting, windows and doors As per Tennis Clubhouse Policy, 50% of the costs to be funded by respective club. Tennis clubhouse repair and/or replacement will proceed subject to satisfactory club finance review.

SOURCE(S) OF FUNDING (\$)					E-4		
Funding Type	Budget	<u>Armadale</u>	Box Grove	Pomona Valley	Union	ville TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	23,780	1,020	8,960	6,120	7,680	23,780	0
Other External	14,820	1,020	0	6,120	7,680	14,820	0
TOTAL FUNDING	38,600				=	38,600	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OF ERATING BUDGET IMPACT	\$0	\$0	\$0	\$0	

Name Year Amount Study	Amount in Study: 19,3 Amount Incl HST 23,8
	•
	Year in the study 2
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:	



Page 519**225** 

Amount Incl HST

Year in the study

88,600 2020

	2020 PROJ	IRCT RIANI	DING RH	OHEST EO	RM				
<b>V</b> IARKHAM	2020 I ROJ	ECTTON		ZOEST FO	N N	umber:	20	0086	
Project Name: Air Cylind	lors 15   Minute	os <b>D</b> onlogomon	<b>.</b>		Project (	Cost:	\$88,	,600	
		s Kepiacemen	<u> </u>			Repair	/Replac	e	
Commission: Community			-	Ţ	Jseful Life:	15	Pre Ap	proval:	
Department: Fire & Eme			-	Category:	Minor		-	-	
Project Mgr: Chris Neari	_		-		n: Third party estimate				
	2 3 4 4		Requirement Validation: Legisla						
	6□ 7□ 8□		1						
ETAILED DESCRIPTIO egislative life cycle replace	·								
UILDING MARKHAM'S  ROJECT COSTS (\$)	2020	ETHER: Safe Future Phases	e & Sustainable  NOTES	•					
Cost/Quote:	87,075	0	Carbon f	bre wrapped air					
Internal Charges:	0	0	cylinders	apparatus must be replaced every 15 years (legislative). 43 cylinders @ \$2,060/unit are due for replacement in 2020. Amour is consistent with the 2019 Life Cycle Reserve Study update. The units were last replaced in 2005. Current inventory is 286 x 45 m 10 x 60 min, 4 x 15 min cylinders.					
External Consulting:	0	0							
Sub Total:	87,075	0							
HST Impact:	1,533	0							
Total Project Cost:	88,600	0							
OURCE(S) OF FUNDING	<del>(</del> \$)		Coi	nponents				E4	
inding Type	<u>Budget</u>					<u>T(</u>	<u>OTAL</u>	Future Phases	
erating Funded Life Cycle	88,600	88,600	0	0	(	0 88	8,600		
TOTAL FUNDING	88,600					8	8,600		
PERATING BUDGET IN	мраст Ре	rsonnel Non	Personnel	Revenues	Expenditu	res/(Rev	enues)		
LAAIII DUDGEI II	MACI	\$0	\$0	\$0		\$0			
CA/LIFE CYCLE DETA	ILS								
<u>DCA</u>		,	Year Amou	Amount in	<u>Life</u>	<b>Cycle</b>			
Name		<u> </u>	ı cai Aiii0u	nt Study	— Amoi	ant in Stu	dv.	91,300	

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 521 **227** 

20087 **Number:** \$169 000 Project Cost

rioject Name. F		D 1	.4				8,900
		ear Replacemen	ıt			Repair/Repla	ce
Commission: C	Community	& Fire Services			Useful Life:	7 Pre A	pproval:
=		ergency Services		Category		,	FF
Project Mgr: C				Cost Validation		rde	
Ward(s): CV	w 🗸 1	2 🗆 3 🗆 4 🗆		Requirement Validation:	-		
	5 🗌	6□ 7□ 8□		Requirement vandation.	. Legislative	compnance	
ETAILED DES	CRIPTIO	N (SCOPE OF P	ROJECT):				
provide firefigh aintain equipment andard on protect ood-borne patho	nters with s nt and Sect ction Enser ogens. MFE	tructural firefighting tion 21 Guidance N mbles for Structura	ng protective equip Notes, Section 4 ou al Firefighting, min or the supply and d	st based on condition assessiment (bunker suit). Legislat tlines standards for personal imum level of protection from the elivery of bunker gear 2018 as Sustainable Community	ion: Health an l protective eq om thermal, ph	nd Safety Act; E uipment. NFPA	Employer to A 1971
DOJECT COS	TC (\$)	2020	T ( D)	NOTES			
ROJECT COST		<u>2020</u>	<b>Future Phases</b>	Project cost is based on			
	/Quote:	166,000	0	contract. Total inventor			
Internal C	•	0	0	sets (suits ordered at 7 y equipment, eliminates pu			
External Cons	sulting:	0	0	firefighter). A 3.5% pric	e escalation w	ill be applied fr	om 2019 to
	Total:	166,000	0	2022 as per contract. An Cycle Reserve Study upo		stent with the 20	)19 Life
	Impact:	2,922	0	Cycle Reserve Study upo	iaic.		
Total Project	t Cost: =	168,900	0				
OURCE(S) OF I	FUNDIN(	<u>G (\$)</u>		Components			<b>.</b>
ınding Type		Budget				TOTAL	Future Phases
Hum <u>e 1 ype</u>		Duuget					
	ife Cycle	168,900	0	0 0	C	0	(
perating Funded Li	•		0	0 0	C	0 0	
perating Funded Li	ING	168,900 168,900		0 0 ersonnel Revenues			
Perating Funded Li	ING	168,900 168,900	rsonnel Non P			0	
PERATING BU	ING UDGET II	168,900  168,900  Per MPACT	rsonnel Non P	ersonnel Revenues		res/(Revenues)	
PERATING BI CA/LIFE CYC DCA	ING UDGET II	168,900  168,900  Per MPACT	rsonnel Non P	ersonnel Revenues \$0 \$0  Amount in	Expenditu	res/(Revenues)	
PERATING BUCA/LIFE CYC	ING UDGET II	168,900  168,900  Per MPACT	rsonnel Non P	ersonnel Revenues \$0 \$0	Expenditur Life	res/(Revenues) \$0  Cycle	
PERATING BI  CA/LIFE CYC  DCA	ING UDGET II	168,900  168,900  Per MPACT	rsonnel Non P	ersonnel Revenues \$0 \$0  Amount in	Expenditur Life Amou	res/(Revenues) \$0  Cycle  nt in Study:	168,900
PERATING BI  CA/LIFE CYC  DCA	ING UDGET II	168,900  168,900  Per MPACT	rsonnel Non P	ersonnel Revenues \$0 \$0  Amount in	Expenditur  Life  Amou	res/(Revenues) \$0  Cycle  nt in Study:   Interpretation of the content of the con	168,900 168,900
DERATING BIOCA/LIFE CYC DCA Name	ING  UDGET II  LE DETA	168,900  168,900  Per MPACT  ILS	rsonnel Non P \$0	ersonnel Revenues \$0 \$0  Amount in Study	Expenditur  Life  Amou	res/(Revenues) \$0  Cycle  nt in Study:	168,900
perating Funded Li TOTAL FUND  DPERATING BI  CCA/LIFE CYC  DCA  Name	ING  UDGET II  LE DETA	168,900  168,900  Per MPACT	rsonnel Non P \$0	ersonnel Revenues \$0 \$0  Amount in Study	Expenditur  Life  Amou	res/(Revenues) \$0  Cycle  nt in Study:   Interpretation of the content of the con	168,900 168,900
DERATING BIOCA/LIFE CYC DCA Name	ING  UDGET II  LE DETA	168,900  168,900  Per MPACT  ILS	rsonnel Non P \$0	ersonnel Revenues \$0 \$0  Amount in Study	Expenditur  Life  Amou	res/(Revenues) \$0  Cycle  nt in Study:   Interpretation of the content of the con	168,900 168,900
DERATING BI  CA/LIFE CYC  DCA  Name	ING  UDGET II  LE DETA	168,900  168,900  Per MPACT  ILS	rsonnel Non P \$0	ersonnel Revenues \$0 \$0  Amount in Study	Expenditur  Life  Amou	res/(Revenues) \$0  Cycle  nt in Study:   Interpretation of the content of the con	168,900 168,900
DERATING BI  CA/LIFE CYC  DCA  Name	ING  UDGET II  LE DETA	168,900  168,900  Per MPACT  ILS	rsonnel Non P \$0	ersonnel Revenues \$0 \$0  Amount in Study	Expenditur  Life  Amou	res/(Revenues) \$0  Cycle  nt in Study:   Interpretation of the content of the con	168,900 168,900
DERATING BIOCA/LIFE CYC DCA Name	ING  UDGET II  LE DETA	168,900  168,900  Per MPACT  ILS	rsonnel Non P \$0	ersonnel Revenues \$0 \$0  Amount in Study	Expenditur  Life  Amou	res/(Revenues) \$0  Cycle  nt in Study:   Interpretation of the content of the con	168,900 168,900



Page 5234

Number: 20088 **Project Cost:** \$75,300 Project Name: Defibrillator & Accessories Replacement Repair/Replace Commission: Community & Fire Services Pre Approval: Useful Life: 5 Department: Fire & Emergency Services Category: Minor Project Mgr: Chris Nearing/Adam Grant Cost Validation: Third party estimate CW ✓ 1 □ 2 □ 3 □ 4 □ Ward(s): Requirement Validation: Condition assessment 5 6 7 8 **DETAILED DESCRIPTION (SCOPE OF PROJECT):** Replacement of 13 Suppression Division Defibrillators with Accessories based on condition assessment. Replacement of 1 Automatic External Defibrillator utilized by the Public Education Division during events in the community. Safe & Sustainable Community **BUILDING MARKHAM'S FUTURE TOGETHER: NOTES PROJECT COSTS (\$)** 2020 **Future Phases** Condition assessment performed on all units. Amount is consistent Cost/Quote: 74,000 0 with the 2019 Life Cycle Reserve Study update. 13 Defibrillators @ \$5,100/unit, 1 automatic external defibrillator for public **Internal Charges:** 0 0 education @ \$2,250, and 3 automatic external defibrillator units for **External Consulting:** 0 0 staff training @ \$2,250. These units were last replaced in 2014. Sub Total: 74,000 0 1,302 0 **HST Impact: Total Project Cost:** 75,300 0 SOURCE(S) OF FUNDING (\$) **Components Future** Staff Training **Funding Type** Suppression Pub-Ed TOTAL **Phases Budget** Operating Funded Life Cycle 75,300 66,300 2,250 6,750 0 75,300 0 TOTAL FUNDING 75,300 75,300 0 Personnel Non Personnel Revenues Expenditures/(Revenues) **OPERATING BUDGET IMPACT** \$0 \$0 \$0 \$0 DCA/LIFE CYCLE DETAILS **DCA** Amount in **Life Cycle** Year Name **Amount** Study Amount in Study: 77,900 Amount Incl HST 75,300 Year in the study 2020 DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 525 7 28

<b>M</b> ARKHA	2020 PROJECT FUNDING REQUEST FORM	Number:	20089	J
Project Name: Es		ect Cost:	\$100,000	
Troject Name. F	refighting Tools & Equipment Replacement	Repair	/Replace	_

Commission: Community & Fire Services Pre Approval: Useful Life: Department: Fire & Emergency Services Category: Annual Project Mgr: Chris Nearing Cost Validation: Other(specify in Notes) CW ✓ 1 □ 2 □ 3 □ 4 □ Ward(s): Requirement Validation: Other(specify in Notes) 

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

Annual replacement and purchase of firefighting tools & equipment. Examples include but are not limited to the following: hose, ladders, nozzles, hand tools, water rescue equipment, ropes, fire extinguishers, hydraulic rescue tools, oxygen equipment, air cylinders, SCBA masks & breathing valves, portable pumps, electric & gas operated saws, cribbing, hose appliances, portable radios, medical bags, fans, thermal camera & related equipment, laser temperature probes, travel restraint and lock out kits.

Safe & Sustainable Community BUILDING MARKHAM'S FUTURE TOGETHER:

<u>2020</u>	<b>Future Phases</b>
98,300	0
0	0
0	0
98,300	0
1,730	0
100,000	0
	98,300 0 0 98,300 1,730

### NOTES

Purchases occur due to condition assessment/legislative requirements/circumstances. Because of the nature of the department activities, equipment may require purchase/replacement due to damage and condition, beyond economical repair or technological change. Amount is consistent with the 2019 Life Cycle Reserve Study update. This project funding meets the current needs of the Fire Department and keeps all tools and equipment in a good state of operational order.

SOURCE(S) OF FUNDING	<u>(\$)</u>		Compon	ents			Entres
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	100,000	0	0	0	0	0	0
TOTAL FUNDING	100,000				=	0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OTERATING BEDGET HAT ITEL	\$0	\$0	\$0	\$0	

<u>DCA</u>	Amount in	
Name	Year Amount Study	Amount in Study: 100,000
		Amount Incl HST 100,000
		Year in the study 2020



Page 527**233**Number: 20090

Due is at Names II	M ( ! ! D		• 100			Project (	Cost: \$20	0,900
Project Name: Hazardous		econtaminat	ion Ten	t			Repair/Repla	ice
Commission: Community					Ţ	Jseful Life:	10 Pre A	pproval:
Department: Fire & Emer					Category:	Annual		11
Project Mgr: Chris Nearing				Cos		Third party	ectimate	
Ward(s): $CW \boxed{\bullet} 1 \square$	2 🗆 3 🗆 4 🗆		p			Condition a		
5 🗆	6□ 7□ 8□		IN	equiremen	i vandation.	Condition a	SSESSIIICIII	
DETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):						
Life Cycle Replacement of 1	Decontamination	Tent based or	conditio	n assessme	nt.			
BUILDING MARKHAM'S	S FUTURE TOG	ETHER: S	afe & Sus	tainable Cor	nmunity			
PROJECT COSTS (\$)	2020	Future Pha	ISSES I	NOTES				
			A				fe Cycle Reserv	
Cost/Quote:	20,506		•				ed in 2019. 201 as last replaced	
Internal Consultings	0		U E				zed for training	
External Consulting:	0		0 e	xtend the u	seful life of th	ne new purch	ase.	
Sub Total:	20,506		0					
HST Impact:	361		0					
Total Project Cost:	20,900		0					
SOURCE(S) OF FUNDING	5 (\$)			Comp	onents			F 4
Funding Type	<u>Budget</u>						TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	20,900	(	)	0	0	C	0	0
TOTAL FUNDING	20,900						0	0
OPERATING BUDGET IN	MPACT Pe	rsonnel N	on Person	nnel R	evenues	Expenditu	res/(Revenues)	1
		\$0	\$0		\$0		\$0	
DCA/LIFE CYCLE DETA	ILS							
<u>DCA</u>			<b>V</b>	A4	Amount in	<u>Life</u>	<u>Cycle</u>	
- T			Year	Amount	Study	– Amou	nt in Study:	21,400
Name							iit iii Study.	
Name							nt In Study.	20,900
Name						Amou	nt Incl HST	20,900
Name  DCA and/or Life Cycle:	Evaluin if there is	a chango in t	ha waar ar	nd/or gost:		Amou	• -	20,900



Page 529**235** 

MARKHAM	2020 PROJ	ECT FUNDI	ING REQU	JEST FO	<b>PRM</b>	Numbei	r: 20	0091
$\smile$					Project	Cost:	\$12	,300
Project Name: Hose Rolli	ing Equipment	Replacement				Ren	air/Replac	re
Commission: Community	& Fire Services			1	T C. 1 T : C			
Department: Fire & Eme	rgency Services				Useful Life:	5	Pre Ap	proval: $\square$
Project Mgr: Adam Gran	t			Category:				
Ward(s): $CW \boxed{\bullet} 1 \square$	2□ 3□ 4□			st Validation:				
5 🗌	6 7 8		Requiremen	t Validation:	Condition	assessm	nent	
DETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):						
Replacement of hose rolling adapters. Motorized unit for the annual testing of all MFE BUILDING MARKHAM'S	rolling and drainin S firehose.	g of all diameters of		ed extensively				
PROJECT COSTS (\$)	2020	Future Phases	NOTES	,				
				onsistent witl				
Cost/Quote:	12,110	0		300 for powersessment per				
Internal Charges: External Consulting:	0	0		s a 5 year life	-	[ <b>F</b>		-F
_								
Sub Total: _ HST Impact:	12,110 213	$\frac{}{}$						
Total Project Cost:								
=	12,300	0						
SOURCE(S) OF FUNDING	<del>S (\$)</del>		Comp	onents				Future
Funding Type	Budget					7 -	<u> FOTAL</u>	<u>Phases</u>
Operating Funded Life Cycle	12,300	12,300	0	0		0	12,300	
TOTAL FUNDING	12,300						12,300	
								-
OPERATING BUDGET IN	мраст Рег	rsonnel Non Pe	ersonnel R	evenues	Expendit	ures/(Ro	evenues)	
OTEMITING BEDGET I	<u> </u>	\$0	\$0	\$0		\$0		
DCA/LIFE CYCLE DETA	<u>ILS</u>							
<u>DCA</u>		<b>5</b> 7		Amount in	<u>Lif</u>	<u>fe Cycle</u>		
Name		Ye	ear Amount	Study	— Ame	ount in S	tudy:	12,300
					Amo	ount Incl	HST	12,300
						r in the		2020
DCA and/or Life Cycle:	Evaloin if there is	a change in the wa	or and/or acet		100	- 111 (110)		
DCA and/or Life Cycle:	Explain it there is	a change in the ye	ai anu/oi cost.					



Page 531 **237** 

<u>viarki</u>	IAM 2020 I ROUZEI I ENZING REGEZSI I O	Number:	20092	
Project Name:	Devid Letermentian Device Device Device and	Project Cost:	\$8,700	
Toject Name.	Rapid Intervention Rescue Packs Replacement	Repair	/Replace	
Commission:	Community & Fire Services			_

Department: Fire & Emergency Services

Project Mgr: Adam Grant

Ward(s): CW 1 1 2 3 4 Requirement Validation:

Requirement Validation:

Useful Life: 10 Pre Approval:

Category: Minor

Cost Validation:

Third party estimate

Legislative compliance

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

Replacement of 2 rapid intervention crew (RIC) rescue packs. To comply with the Occupational Health and Safety Act 25(1)(b) maintain equipment in good condition and 25(2)(h) Section 21 Guidance notes regarding firefighter rescue. Provision of the equipment is necessary to rescue a firefighter who is trapped or disoriented during a fire. When a fire occurs, legislation requires that MFES has the equipment, training, policies and procedures to rescue a firefighter who is trapped or missing.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

NOTES	

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	8,568	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	8,568	0
HST Impact:	151	0
Total Project Cost:	8,700	0

Two of six units are being replaced. The cost of each unit is \$4,350 (x 2 replacements). Units that are not in need of replacement and are assessed annually for condition. The associated equipment to perform this rescue is maintained on 6 apparatus to provide redundancy and to ensure that the equipment is on location of a fire, with one spare unit for a total of 7. These units were last replaced in 2010.

SOURCE(S) OF FUNDING (\$	1	Components					E-4
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	8,700	0	0	0	0	0	0
TOTAL FUNDING	8,700				=	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OTERATING BEDGET HAT ITEL	\$0	\$0	\$0	\$0	

<u>DCA</u>	Amount in	Life Cycle
Name	Year Amount Study	Amount in Study: 24,900
		Amount Incl HST 8,700
		Year in the study 2020
DCA and/or Life Cycle: Explain if there is a	a change in the year and/or cost:	



# 2020 DDO IECT EUNDING DEOUEST EODM

Page 533**239** 

<b>M</b> ARKHAM	2020 I ROJ		ING KEQUI		18172	Number:	20	093
~	4 - P.T.	-4 J 4 G4 66 5	D -4:		Projec	et Cost:	\$95,	300
Project Name: Replacem	ent of Equipmen	nt due to Staff	Retirements			Repai	r/Replace	e
Commission: Community	& Fire Services			Us	seful Life	e: 1	Pre Apı	oroval:
Department: Fire & Eme				Category:		. 1	11011	, , , , , , , , , , , , , , , , , , ,
Project Mgr: Chris Near	ing		Cost	Validation:		mords		
Ward(s): CW ✓ 1	2 3 4 4		Requirement V	_			200	
5 🗆	6 7 8		Requirement	v andation.	Legisiau	ve compila	iice	
DETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):						
OH&S 25.(2)(h) An employ Guidance Notes, Section 4 in NFPA 1971 Standard on Pro Physical, environmental and BUILDING MARKHAM'	n its entirety outline otective Ensembles blood-borne pathog	es standards for pe for Structural Fire gens.	ersonal protective	equipment and les minimal l	nd practi	ces to prote	ect firefig	hters.
PROJECT COSTS (\$)	2020	Future Phases	NOTES			1		
Cost/Quote:	93,636	0	The cost of pe approximately					
Internal Charges:	0	0	Forecasted est	imate of 12 i	retiremer			
External Consulting:	0	0	equipment is r	epurposed as	s spare.			
Sub Total:	93,636	0						
HST Impact:	1,648	0						
Total Project Cost:	95,300	0						
OURCE(S) OF FUNDING	G (\$)		Compon	ents				
Funding Type	<u>Budget</u>					<u>T</u> 0	OTAL	Future Phases
Operating Funded Life Cycle	95,300	0	0	0		0	0	0
TOTAL FUNDING	95,300						0	0
OPERATING BUDGET I	мраст Рег	rsonnel Non I	Personnel Rev	venues	Expendi	itures/(Rev	venues)	
	<u> </u>	\$0	\$0	\$0		\$0		
OCA/LIFE CYCLE DETA	AILS							
<u>DCA</u>		<b>T</b> 7		Amount in	L	ife Cycle		
Name		Y	ear Amount	Study	– An	nount in Stu	ıdy:	95,200
					An	nount Incl F	IST	95,300
					Ye	ar in the st	udy	2020
DCA and/or Life Cycle	: Explain if there is	a change in the v	ear and/or cost:				•	



MARKH	HAM 2020 PROJECT FUNDA	ING REQUEST FO	PRM N	lumber:	Page 535 <b>2 288 20094</b>
Project Name:	Rescue Equipment - Powered Hydraulics	Replacement	Project	=	\$93,500 /Replace
Department: Project Mgr:	Community & Fire Services  Fire & Emergency Services  Chris Nearing  CW ✓ 1 □ 2 □ 3 □ 4 □  5 □ 6 □ 7 □ 8 □	Category: Cost Validation: Requirement Validation:	Third party	15 y estimate	Pre Approval:

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

Replacement of 2 sets of Powered Hydraulics Portable Rescue Equipment for Fire Truck 931 & 971. Equipment to include hydraulic cutters, hydraulic spreaders, hydraulic rams, portable power plants and supporting equipment. Hydraulic equipment as listed enables fire crews to engage in life saving interventions, such as automobile extrication and confined space and other types of rescue.

Safe & Sustainable Community **BUILDING MARKHAM'S FUTURE TOGETHER:** 

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	91,901	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	91,901	0
HST Impact:	1,617	0
Total Project Cost:	93,500	0

### **NOTES**

Replacement of equipment that has fulfilled its established useful life cycle. 2 units @ \$46,750/unit. This equipment was last replaced in 2005. Total inventory is 5 complete sets.

SOURCE(S) OF FUNDING (S	<u></u>		Compon	ents			E-4
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	93,500	93,500	0	0	0	93,500	0
TOTAL FUNDING	93,500				=	93,500	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

<u>DCA</u>	Amount in	Life Cycle
Name	Year Amount Study	Amount in Study: 142,800
		Amount Incl HST 93,500
		Year in the study 2020
DCA and/or Life Cycle: Explain if there is a	a change in the year and/or cost:	



Page 537**2243**Number: 20095

Danie of Monte	• , ==7 .	D 5.	(D. 1	Project Co	ost: \$42	2,600
Project Name: Rescue Eo		er Kescue Equipi	ment Keplacement		Repair/Repla	ce
Commission: Community	& Fire Services		ī	Jseful Life:		pproval:
Department: Fire & Eme			Category:		JIIOA	pp10 vai. —
Project Mgr: Chris Neari	ng				atimata	
Ward(s): $CW \checkmark 1$	2 🗆 3 🗆 4 🗆		Cost Validation: Requirement Validation:			
5 🗆	6□ 7□ 8□		Requirement vandation:	Condition ass	sessment	
DETAILED DESCRIPTION						
Replacement of 1 fortuna bo Replacement of 12 shore bas			ent. The fortuna allows for e	entry into open	water to enga	ige in rescue
replacement of 12 shore bas	ed water rescue kit					
			~ ~ .			
BUILDING MARKHAM'	S FUTURE TOGI	ETHER: Safe &	Sustainable Community			
PROJECT COSTS (\$)	2020	Future Phases	NOTES			
		·	Replacement of equipment			
Cost/Quote:	41,860	0	life cycle based on condit and 12 rescue kits @\$3,0			
Internal Charges: External Consulting:	0	0	Total inventory of fortuna			
_ <del>_</del>			kits = 12.			
Sub Total:	41,860	0				
HST Impact: Total Project Cost:	737					
	42,600	0				
OURCE(S) OF FUNDING	<u>; (\$)</u>		Components			T. 4
unding Type	Budget	<u>fortuna</u>	rescue kits		TOTAL	Future Phases
perating Funded Life Cycle	42,600	6,000	36,600 0	0	42,600	
TOTAL FUNDING	42,600				42,600	
	<u> </u>	<u> </u>				
	Per Per	rsonnel Non Pe	rsonnel Revenues	Expenditure	s/(Revenues)	
OPERATING BUDGET I	MPACT Per		rsonnel Revenues 0 \$0	•	es/(Revenues)	
	MPACT			•	, ,	
	MPACT	\$0 \$	0 \$0  Amount in	•	50	
OPERATING BUDGET I  OCA/LIFE CYCLE DETA  DCA  Name	MPACT		0 \$0  Amount in	Life C	50 Cycle	
DCA/LIFE CYCLE DETA DCA	MPACT	\$0 \$	0 \$0  Amount in	Life C — Amoun	cycle t in Study:	142,800
DCA/LIFE CYCLE DETA DCA	MPACT	\$0 \$	0 \$0  Amount in	Life C  — Amount	Sycle t in Study:	142,800 42,600
DCA/LIFE CYCLE DETA DCA	MPACT	\$0 \$ Yes	Amount in Study	Life C  — Amount	cycle t in Study:	142,800



Page 539**245**Number: 20096

		<b>Project Cost:</b>	\$203,500
Project Name: Angus Glen C.C. Arena Condenser Rep	lacement	Re	epair/Replace
Commission: Community & Fire Services  Department: Recreation Services		Useful Life: 15	Pre Approval:
Project Mgr: Scott Hill		y: Minor	
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validatio Requirement Validation	n: Third party estir	
5□ 6♥ 7□ 8□	Requirement vandation	i. Condition assess	Silient

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

This project is to replace the existing arena condenser at Angus Glen C.C. The unit being replaced includes all piping insulation and pumps. The condenser's main function is to facilitate condensation of the ammonia gas. It achieves this by using cooler ambient air, water or a combination of the two to extract heat from the gas. Sufficiently cooled, the ammonia returns to liquid form and is circulated back to the chiller, completing the refrigeration cycle.

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Safe & Sustainable Community

<u>2020</u>	<b>Future Phases</b>
200,000	0
0	0
0	0
200,000	0
3,520	0
203,500	0
	200,000 0 0 200,000 3,520

### NOTES

The existing condenser was installed in 2004. A condition assessment of the unit indicates replacement is warranted. Recent staff award was for a single rink at Milliken Mills whereas Angus Glen has a double rink. The condenser at Angus Glen is double the size, has 3 pumps to be replaced and the labor cost will be higher than the recent Milliken award as the work will be completed without disruption of services and no loss of revenue. The amount requested is consistent with recent quote plus inflation.

SOURCE(S) OF FUNDING	(\$)		Compone	ents			E4
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	203,500	0	0	0	0	0	0
TOTAL FUNDING	203,500				=	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	<b>Expenditures/(Revenues)</b>	
OI ERMINO BODGET IVITALET	\$0	\$0	\$0	\$0	

### DCA/LIFE CYCLE DETAILS

<u>DCA</u>			Amount in	Life Cycle	
Name	Year	Amount	Study	- Amount in Study:	919,300
				Amount Incl HST	203,500
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

Life Cycle includes: Arena Condenser \$223.9k, Rooftop Condenser \$145.5k, Gym Curtains \$34.6K, Lifeguard Chairs \$9.3K, Library Lighting \$151.2k, Security System \$136.6k, Flooring Replacement \$75.7k, Parking lot lights \$142.5K (moved to Milliken Mills C.C. as per Parking Lot light management program)



Page 541 **22 3** 

Number: 2	0097
-----------	------

**Project Cost:** \$75,700 Project Name: Angus Glen C.C. Flooring Replacement Repair/Replace Commission: Community & Fire Services Pre Approval: Useful Life: 12 Department: Recreation Services Category: Minor Project Mgr: Scott Hill Cost Validation: Third party estimate Ward(s): Requirement Validation: Condition assessment 5 □ 6 🗸 7 □ 8 □ **DETAILED DESCRIPTION (SCOPE OF PROJECT):** This project is to replace the rubber flooring in the Multi-Purpose Room located on the second level at the Angus Glen C.C.

BUILDING MARKHAM'S FUTURE TOGETHER:

Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	74,400	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	74,400	0
HST Impact:	1,309	0
Total Project Cost:	75,700	0

#### NOTES

The existing flooring was installed in 2005. A condition assessment on the flooring indicate replacement is warranted. There is 4,500 square feet of rubber flooring in the Multi-Purpose Room which is used for programs, summer camps, seniors programs, and party events. The space is the largest room in the centre which delivers good revenue to support the annual budget expectations. A condition assessment of the flooring indicates replacement is warranted. Amount is consistent with the 2019 Life Cycle Reserve Study update.

SOURCE(S) OF FUNDING (	<u></u>		Compon	ents			Entons
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	75,700	0	0	0	0	0	0
TOTAL FUNDING	75,700				=	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

#### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>			Amount in	Life Cycle	
Name	Year	Amount	Study	Amount in Study:	919,300
				Amount Incl HST	75,700
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

Life Cycle includes: Arena Condenser \$223.9k, Rooftop Condenser \$145.5k, Gym Curtains \$34.6K, Lifeguard Chairs \$9.3K, Library Lighting \$151.2k, Security System \$136.6k, Flooring Replacement \$75.7k, Parking lot lights \$142.5K (moved to Milliken Mills C.C. as per Parking Lot light management program)



Number:	20098
---------	-------

seful Life: 15 Minor Third party esti Condition asses n is used to divi	imate ssment ide the gymnasium  5. A condition assented. Amount is con	to
Minor Third party esti Condition asses  n is used to divi  nstalled in 2005 ement is warran	imate ssment ide the gymnasium  5. A condition assented. Amount is con	to
Third party esting Condition asses not is used to divi	imate ssment ide the gymnasium  5. A condition assented. Amount is con	to
Third party esting Condition asses not is used to divi	ide the gymnasium  5. A condition assented. Amount is con	ssment
Condition asses  n is used to divi  nstalled in 2005 ement is warran	ide the gymnasium  5. A condition assented. Amount is con	ssment
n is used to divi	ide the gymnasium  5. A condition assented. Amount is con	ssment
nstalled in 2005 ement is warran	5. A condition assented. Amount is con	ssment
ement is warran	nted. Amount is con	
ement is warran	nted. Amount is con	
ement is warran	nted. Amount is con	
		nsistent
. ,	•	
	E	
		ases
0	0	0
=	0	0
Expenditures/(	(Revenues)	
-		
Life Cyc	<u>cle</u>	
- Amount it	n Study 919	300
	-	
	,	
rear in u	ne study 2	2020
		SK,
i	Expenditures/ \$0  Life Cy Amount i Amount I Year in t	Expenditures/(Revenues) \$0  Life Cycle  Amount in Study: 919,3



Page 545 **25** 8

**Number: 20099** 

Project Name: Angus Gl	en C C Lifegua	rd Chair R	enlacen	nent		Project (	Cost:	<b>\$9,</b> .	300
		iu Chan K	сріассіі	ii.iit			Repair/	Replac	<u>e</u>
Commission: Community					Ţ	Jseful Life:	10	Pre Ap	proval: $\square$
Department: Recreation	Services				Category:	Minor			
Project Mgr: Scott Hill				Cos		Third party estimate			
	2 3 4 4				t Validation:				
5 🗆	6 ✓ 7 □ 8 □			- toquitonion	· milanioiii				
DETAILED DESCRIPTION									
This project is to replace the	mounted lifeguard	I chair in the	aquatics	centre at An	gus Glen C.C				
BUILDING MARKHAM'	S FUTURE TOG	ETHER:	Safe & Si	ustainable Co	nmunity				
DDO IECT COCTC (\$)	****			NOTES					
PROJECT COSTS (\$)	<u>2020</u>	Future Ph		Existing life	guard chair w				
Cost/Quote:	9,100		0		of the unit ind				
Internal Charges:	0		0		nairs is a legis guard chairs				
External Consulting:	0		0		vimmers from				
Sub Total:	9,100		0	position allows for lifeguards to maintain swimmer safety. Amo					
HST Impact:	160		0	is consistent	with the 201	9 Life Cycle	Reserve S	tudy u	pdate.
Total Project Cost:	9,300		0						
SOURCE(S) OF FUNDING	G (\$)			Comp	onents				
Funding Type	Budget			-			TO	<u>ΓAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	9,300		0	0	0		)	0	0
	· · · · · · · · · · · · · · · · · · ·		U	Ü	O	`			
TOTAL FUNDING	9,300								0
	Pe Pe	rsonnel N	Non Pers	onnel R	evenues	Expenditu	res/(Reve	nues)	
OPERATING BUDGET I	MPACT	\$0	\$0		\$0	-	\$0		
DCA/LIFE CYCLE DETA	AILS						·		
<u>DCA</u>					Amount in	Life	Cycle		
Name			Year	Amount	Study		ınt in Stud	.,.	919,300
								<b>'</b> ⊢	
							nt Incl HS		9,300
						Year	in the stud	ly	
DCA and/or Life Cycle	: Explain if there is	s a change in	the year	and/or cost:					
Life Cycle includes: Ar									
Library Lighting \$151.2					\$75.7k, Parki	ng lot lights	\$142.5K (1	moved	to
Milliken Mills C.C. as p	ei Parking Lot ligr	n managemei	ııı progra	111)					



# 2020 I

PROJECT FUNDING REQUEST FORM	Number:	20100	

Project Name: Amous Cla	on C.C. Doofton	Candanaan Dani	4		Project C	ost:	\$132	,300
Project Name: Angus Gle		Condenser Repi	acement			Repair	/Replace	e
Commission: Community	& Fire Services			Use	ful Life:	15	Pre Apr	proval:
Department: Recreation	Services			Category: M	finor .		11	
Project Mgr: Scott Hill			Cos	st Validation: R		rde		
Ward(s): $CW \square 1 \square$	2 3 4 4			t Validation: C			nt	
5 🗆	6 ✓ 7 □ 8 □		Requiremen	Tandadon. —	ondition as	55055111011		
This project is to replace two the arena, which run in conju- maintain lower air temperatu BUILDING MARKHAM'S	(2) existing arena unction with Air ha res when the ice is	Rooftop (RTU) conndling unit (AHU) out, which in turn r	and 2. Air co	onditioning supp d on refrigeration	orts dehur	nidificati	ion and l	helps to
PROJECT COSTS (\$)	2020	Future Phases	NOTES					
Cost/Quote:	130,000	()		ndensers were in indicate replace				
Internal Charges:	0	0		unit including l				
External Consulting:	0	0	consistent w	ith recent staff a	ward plus	inflation	. Amour	nt is
Sub Total:	130,000	0	consistent w	vith the 2019 Lif	e Cycle Re	serve Sti	ady upda	ate.
HST Impact:	2,288							
Total Project Cost:	132,300	0						
	<u> </u>							
SOURCE(S) OF FUNDING	<u> </u>		Comp	onents				<b>Future</b>
Funding Type	<u>Budget</u>					<u>TC</u>	<u>)TAL</u>	<u>Phases</u>
Operating Funded Life Cycle	132,300	0	0	0	0	'	0	0
TOTAL FUNDING	132,300						0	0
OPERATING BUDGET I	MPACT	rsonnel Non Per \$0 \$0		Revenues E	Expenditur	es/( <b>Rev</b> o	enues)	
DCA/LIFE CYCLE DETA	<u>ILS</u>							
<u>DCA</u> Name		Yea	r Amount	Amount in Study	<u>Life (</u>	<u>Cycle</u>		
- Tume				Study	Amou	nt in Stu	dy:	919,300
					Amour	nt Incl H	ST	132,300
					Year	in the stu	ıdy	2020
DCA and/or Life Cycle:	Explain if there is	a change in the yea	r and/or cost:					
Life Cycle includes: Are Library Lighting \$151.21 Milliken Mills C.C. as po	k, Security System	\$136.6k , Flooring	Replacement					



Page 5494

2020 PROJECT FUNDING REQUEST FORM **Number:** 20101 **Project Cost:** \$218,500

Designat Names A LL C.C.E. B 41 C.4	TD 1 4	_	_	1	
Project Name: Armadale C.C. Fire Prevention System	<b>Replacement</b>		Repair	/Replace	
Commission: Community & Fire Services  Department: Recreation Services	_	seful Life:	20	Pre Approval:	
Project Mgr: Ryan Hanna	Minor				
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	=		Third party estimate		
5□ 6□ 7□ 8✔	Requirement Validation:	Condition as	ion assessment		
DETAILED DESCRIPTION (SCOPE OF PROJECT):					
This project is to replace the existing fire prevention system at A meeting legislative requirements and ensuring a safe environment		e prevention	ı system ı	will support	

Safe & Sustainable Community **BUILDING MARKHAM'S FUTURE TOGETHER:** 

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	196,740	0
Internal Charges:	0	0
External Consulting:	18,000	0
Sub Total:	214,740	0
HST Impact:	3,779	0
Total Project Cost:	218,500	0

Existing fire system was installed in 1996 and is original to the building. This will mark the first time this item will be replaced since the building opened. A condition assessment of the system indicates replacement is warranted. Included in this replacement is the annunciator panel, a fire alarm panel, the sprinkler system, labour and disposal. Amount is consistent with the 2019 Life Cycle Reserve Study update.

SOURCE(S) OF FUNDING (\$)		Components					
Funding Type	<b>Budget</b>	sprinkler system	Anunciator panel	Fire alarm Panel	Consu	ultant TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	218,500	184,790	3,195	12,200	18,315	218,500	0
TOTAL FUNDING	218,500				=	218,500	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
OLEKATING BEDGET IMMACT	\$0	\$0	\$0	\$0

#### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>			Amount in	Life Cycle	
Name	Year	Amount	Study	- Amount in Study:	550,100
				Amount Incl HST	218,500
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

Life Cycle includes: Rooftop Unit \$142.8, Millwork \$137.9K (reduced from \$163.8K), Sprinkler System \$227.8k, Security System \$15.7K



Page 551 **257** 

Number:	20102
I TUILIDEI .	

Duelant Managa A 1 1		ъ .	4			Project	Cost:	\$132	2,200
Project Name: Armadale		Replacen	nent				Repair/l	Replac	e
Commission: Community	& Fire Services				Ţ	Useful Life:			proval:
Department: Recreation					Category:			г	P
Project Mgr: Ryan Hanna				C		Third party estimate			
	2 3 4				ent Validation:				
5 🗆	6□ 7□ 8✔			requirem	one varidation.	Condition	<u> </u>		
ETAILED DESCRIPTION									
his project is to replace mil Armadale C.C. Sections of		-					-		
Affiliadale C.C. Sections of	i the storage units a	ne bioken,	due to ag	e and exten	istve use and in	e counters no	ive pecieu	and Cn	пррец.
BUILDING MARKHAM'	S FUTURE TOG	ETHER:	Safe & S	Sustainable C	Community				
ROJECT COSTS (\$)	2020	Future F	Phases	NOTES					
Cost/Quote:	118,700	_ 4,4101	0		ork at Armadal the building. A				
Internal Charges:	0		0		eplacement is v				
External Consulting:	11,187		0	consistent	with the 2019	Life Cycle R	eserve Upo	late.	
Sub Total:	129,887		0						
HST Impact:	2,286		0						
Total Project Cost:	132,200		0						
OURCE(S) OF FUNDING	<u> </u>			Com	ponents				<u>Future</u>
unding Type	<b>Budget</b>						<u>TO</u>	<u>TAL</u>	Phases
perating Funded Life Cycle	132,200		0	0	0		0	0	0
TOTAL FUNDING	132,200							0	0
PERATING BUDGET I	мраст Ре	rsonnel	Non Per	sonnel	Revenues	Expenditu	res/(Reve	nues)	
DI EKATING BUDGET I	WITACI	\$0	\$0		\$0		\$0		
CA/LIFE CYCLE DETA	ILS								
<u>DCA</u>			₹7		Amount in	<u>Life</u>	<u>Cycle</u>		
Name			Year	r Amour	t Study	— Amo	unt in Stud	y:	550,100
						Amou	ant Incl HS	Т	132,200
						Year	in the stud	ly	2020
DCA and/or Life Cycle:	Explain if there is	a change i	n the vear	and/or cos	t:				
Life Cycle includes: Roo	-					nrinkler Syst	em \$227 8 <sup>1</sup>	k Sec	urity
System \$15.7K	7. 12.0,	Ψ	.137.711 (1	caacca 110	m φ103.011), 5 <sub>1</sub>	primiter by st	<b>στι</b> φ <b>22</b> 7.03	а, все	urity



Number:	20103

ul Life: 15 nor ird party estima ndition assessme	te ent	pproval:
nor ird party estima ndition assessme	te ent	
ndition assessments oling for the gyrroups was installed in	ent	This
ndition assessments oling for the gyrroups was installed in	ent	This
ndition assessment of the gyr roups	ent	This
oling for the gyr roups was installed in		This
roups was installed in	mnasium.	This
es replacement i		
it with the 2019		
		Future
1	TOTAL	Phases
0	0	
	0	
penditures/(Re	evenues)	
\$0		
Life Cycle		
Amount in St	tudv:	550,100
1 11110 01110 1111 01		220,100
Amount Incl	HST	136 600
Amount Incl Year in the s		136,600 2020
	0 penditures/(Re \$0 <u>Life Cycle</u>	penditures/(Revenues) \$0



Page 555 **268** 

MARKHAM	-	Nu	ımber:	20104
Project Name: Centennial C.C. Gas Monitors Replace	ment	Project C	Cost:	\$10,000
<u> </u>			Repai	r/Replace
Commission: Community & Fire Services	- T	Jseful Life:	20	Pre Approval:
Department: Recreation Services	<u>_</u>		20	rie Appiovai.
Project Mgr: Bob Bell	Category:	Minor		
	Cost Validation:	Third party	estimate	2
() 01 = 1= 1= 3= 1=	Requirement Validation:	Condition as	ssessme	nt
5□ 6□ 7□ 8□	1			
DETAILED DESCRIPTION (SCOPE OF PROJECT):				
This project is to replace (3) gas monitors, (Carbon Dioxide, Aras controllers are a vital control system to monitor and ensure Mechanical refrigeration Code, arenas have legislative requirement replacement of gas monitors, and commissioning.	effective operations of the refri	geration plan	t. Unde	er CSA, B52
BUILDING MARKHAM'S FUTURE TOGETHER: Safe	e & Sustainable Community			
PROJECT COSTS (\$) 2020 Future Phase	NOTES  Gas manitors at Contanni	al wara indan	andanth	v rankagad in 1008

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	9,800	0
Internal Charges:	0	0
<b>External Consulting:</b>	0	0
Sub Total:	9,800	0
HST Impact:	172	0
Total Project Cost:	10,000	0

Gas monitors at Centennial were independently replaced in 1998, 1999 and 2000. A condition assessment of these units indicates replacement is warranted. The amount requested is consistent with recent quote plus inflation.

SOURCE(S) OF FUNDING (\$)		Components					E4
Funding Type	<b>Budget</b>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	10,000	0	0	0	0	0	0
TOTAL FUNDING	10,000				=	0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

#### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>	<b>T</b> 7		Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	712,800
				Amount Incl HST	10,000
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

Life Cycle includes: BAS \$296K, Gas Monitors \$10K, Heaters \$6.4K, HVAC \$61.5K, Lighting \$15K, Arena Painting \$80.9K (reduced from \$229.4k), Pool Equipment \$21.5K, Sauna \$18.9K, Sound system \$13.4K, Surge Drum \$40.7k



IYIAKKHAM			~	Number:	20105
		_		<b>Project Cost:</b>	\$56,000
Project Name: Centenn	ial C.C. HVAC R	eplacement		Renair	r/Replace
Commission: Communit	ty & Fire Services		Ţ		Pre Approval:
Department: Recreation	n Services			Useful Life: 24	Pie Approvai:
Project Mgr: Bob Bell			Category:		
Ward(s): $CW \square 1$	2 □ 3 ✔ 4 □		Cost validation: Requirement Validation:	Third party estimate	
5 🗆	□ 6□ 7□ 8□		Requirement vandation:	Condition assessmen	<u> </u>
DETAILED DESCRIPTI					
C.C. The HVAC units proventilation for the dressing	rooms. The scope of tions. The units are	outh dressing rooms of work includes the original to the arena	ditioning (HVAC) units in the with heating and air circular removal, disposal, supply a and this is the first time the Sustainable Community	ation. In addition, the and installation for a n	y provide proper air new HVAC with
PROJECT COSTS (\$)	2020	Future Phases	NOTES	ita ana ina 41 a anana at	Contouriel C C
Cost/Quote:	55,000	0	The twenty ton HVAC unwere last replaced in 199		
Internal Charges:	0	0	indicate that replacement	is warranted. The amo	ount requested is
External Consulting:	0	0	consistent with the 2019	Life Cycle Reserve St	udy update.
Sub Total:	55,000	0			
HST Impact:	968	0			
<b>Total Project Cost:</b>	56,000	0			
OURCE(S) OF FUNDIN	[G (\$)		Components		— Future
unding Type	Budget			TC	OTAL Phases
Operating Funded Life Cycle	56,000	0	0 0	0	0 0
TOTAL FUNDING	56,000				0 0
OPERATING BUDGET	IMPACT Per	rsonnel Non Pe		Expenditures/(Rev	enues)
OCA/LIFE CYCLE DET	AILS				
<u>DCA</u>		Yea	Amount in	Life Cycle	
Name		1 62	ar Amount Study	— Amount in Stu	dy: 712,800
				Amount Incl H	IST 56,000
				Year in the stu	udy 2020
DCA and/or Life Cycl	e: Explain if there is	a change in the year	ar and/or cost:		
			ers \$6.4K , HVAC \$61.5K , .9K , Sound system \$13.4K		



Number:	20106	
Number:	20100	

Project Name: Centennial C.C. Pool Equipment Replacement  Commission: Community & Fire Services  Useful Life: 8 F	\$21,500
Useful Life: 8	Replace
	Pre Approval:
Department: Recreation Services  Category: Minor	11
Project Mgr: Bob Bell Cost Validation: Third party estimate	
Ward(s): CW □ 1□ 2□ 3 ✓ 4□  Requirement Validation: Condition assessment	
5 4 6 7 8 8	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	
This project is to replace (2) life guard chairs, (1) pool vacuum, (1) sump pump controller located in the pool area a	t Centennial C.C.
BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community	
PROJECT COSTS (\$) 2020 Future Phases NOTES	
Pool equipment lifeguard chair was last replaced	
Cost/Quote: 21,100 0 vacuum was last replaced in 2016 and sump pum 2002. A condition assessment of these units warr	
Cost is based on a recent quote	ants replacement.
External Consulting: 0 0 Cost is based on a recent quote.	
Sub Total: 21,100 0	
HST Impact: 371 0	
Total Project Cost: 21,500 0	
SOURCE(S) OF FUNDING (\$)  Components	- Endone
Funding Type Budget Chairs Vacuum Controlloer TO	Future FAL Phases
Operating Funded Life Cycle 21,500 10,000 4,500 7,000 0 21,4	500 0
TOTAL FUNDING 21,500 21,	,500 0
OPERATING BUDGET IMPACT  Personnel Non Personnel Revenues Expenditures/(Revenues)	nues)
\$0 \$0 \$0 \$0	
DCA/LIFE CYCLE DETAILS	
DCA Amount in <u>Life Cycle</u>	
DCA Amount in <u>Life Cycle</u> Name Year Amount Study	v: 712.800
DCA NameAmount in Year Amount StudyLife Cycle StudyAmount in Study	
DCA     Amount in Year     Amount Study       Name     Year     Amount in Study   Amount in Study Amount Incl HS	T 21,500
DCA     Amount in Year     Amount Study       Name     Year Amount Study         Amount in Study       Amount Incl HS'       Year in the study	T 21,500
Name  Year Amount Study  Amount in Study  Amount Incl HS'  Year in the stud  DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:	T 21,500 dy 2020
DCA Name       Year       Amount       Amount in Study         Amount in Study       Amount in Study         Amount Incl HS'       Year in the stud         DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:         Life Cycle includes: BAS \$296K, Gas Monitors \$10K, Heaters \$6.4K, HVAC \$61.5K, Lighting \$15K, Arena	T 21,500 dy 2020
DCA Name       Year       Amount in Study         Amount in Study       Amount in Study         Amount Incl HS'       Year in the stud         DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:	T 21,500 dy 2020
DCA Name       Year       Amount       Amount in Study         Amount in Study       Amount in Study         Amount Incl HS'       Year in the stud         DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:         Life Cycle includes: BAS \$296K, Gas Monitors \$10K, Heaters \$6.4K, HVAC \$61.5K, Lighting \$15K, Arena	T 21,500 dy 2020
DCA Name       Year       Amount       Amount in Study         Amount in Study       Amount in Study         Amount Incl HS'       Year in the stud         DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:         Life Cycle includes: BAS \$296K, Gas Monitors \$10K, Heaters \$6.4K, HVAC \$61.5K, Lighting \$15K, Arena	T 21,500 dy 2020



Page 561 **267** 

Number:	20107

Project Name: <b>Centennia</b>	ol C C Sounge I	Panlacam	ont		Project	Cost:	\$17,2	200
		Сергасени	CIIL		_	Repair/	Replace	
Commission: Community					Useful Life:	7	Pre App	roval: $\square$
Department: Recreation S	Services			Catego	ory: Minor			
Project Mgr: Bob Bell				•	ion: Third part	tv estimate		
Ward(s): $CW \square 1 \square 2 \square 3 \checkmark 4 \square$			Requirement Validat		•	†		
5 🗆	6□ 7□ 8□			requirement various		ussessinen	-	
DETAILED DESCRIPTIO								
this project is to replace the				fitness change rooms	at Centennial C	C.C.These sa	aunas ar	e located
the fitness change rooms a	ind are used by thi	iess memoe	ers.					
BUILDING MARKHAM'S	S FUTURE TOG	ETHER:	Safe & S	ustainable Community				
PROJECT COSTS (\$)	2020	Future I	Phases	NOTES				
Cost/Quote:	16,900	1 40410 1	0	The wood was last re sauna indicate replac				
Internal Charges:	0		0	quote plus inflation.	cincii is warran	iteu. Cost is	basea o	ii a receiit
External Consulting:	0		0					
Sub Total:			0					
HST Impact:	16,900 297		0					
Total Project Cost:	17,200							
=======================================	17,200							
OURCE(S) OF FUNDING	<del>G (\$)</del>			Components				Futumo
unding Type	<b>Budget</b>					<u>TO</u>	<u>TAL</u>	<u>Future</u> <u>Phases</u>
perating Funded Life Cycle	17,200		0	0	0	0	0	0
TOTAL FUNDING	17,200						0	0
OPERATING BUDGET IN	MDA CT Pe	rsonnel	Non Pers	sonnel Revenues	Expendit	ures/(Reve	nues)	
DERATING BUDGET II	WIFACI	\$0	\$0	\$0		\$0		
CA/LIFE CYCLE DETA	<u>ILS</u>							
<u>DCA</u>				Amoun		<u>e Cycle</u>		
Name			Year	- Amount Stud	y Amo	ount in Stud	ly:	712,800
					Amo	ount Incl HS	ST	17,200
					Yea	r in the stu	dv	2020
DCA and/or Life Cycle:	Evolain if there is	a change i	in the vear	and/or cost:			, <u> </u>	
	-				5V Lighting \$	15V Agons	Dointin	~ ¢90 0V
Life Cycle includes: BA (reduced from \$229.4k)							ı Pailitili	g \$60.9K
(	, <del> 1</del>	, ,		,	,	+		
								i i



Page 563**269** 

**Number: 20108** 

Project Name: Centennia	ol C C Surgo D	rum Danlagaman	<b>.</b> +		<b>Project Cost:</b>	\$37,	000
		um Kepiacemen			Re	epair/Replace	e
Commission: Community				Use	eful Life: 20	Pre Ap	proval: $\square$
Department: Recreation	Services			Category: N	Minor		
Project Mgr: Bob Bell			Cost	Validation: 7	Third party estir	nate	
	2 3 4 4			-	Condition assess		
	6 7 8		1				
This project is to replace the refrigeration plant that separ through the suction line and BUILDING MARKHAM'	surge drum locate ates the liquid out to return the liquid	d in the arena refrig of the gas returning to the evaporator f	from the evapor	rator and allov	_		
DDOIECT COSTS (\$)	2020	E ( DI	NOTES				
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	The surge dr		ed in 1999. A c		
Cost/Quote:	36,400	0	the unit indicate recent quote p		ent is warranted.	. Cost is base	ed on a
Internal Charges:	0	0	recent quote p	nus iiiiatioii.			
External Consulting:	0	0					
Sub Total:	36,400	0					
HST Impact:	641	0					
Total Project Cost:	37,000						
SOURCE(S) OF FUNDING	G (\$)		Compo	nents			E-4
Funding Type	<b>Budget</b>					<b>TOTAL</b>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	37,000	0	0	0	0	0	0
TOTAL FUNDING	37,000				=	0	0
OPERATING BUDGET I	MDA CT Pe	rsonnel Non Pe	ersonnel Re	venues I	Expenditures/(1	Revenues)	
OPERATING BUDGET I	MPACI	\$0	60	\$0	\$0		
DCA/LIFE CYCLE DETA	AILS						
<u>DCA</u>		<b>\$</b> 7.		Amount in	Life Cycl	<u>e</u>	
Name		Ye	ar Amount	Study	Amount in	Study: 1	,484,800
					Amount In-	cl HST	37,000
					Year in th	e study	2020
DCA and/or Life Cycle	· Explain if there is	s a change in the ve	ar and/or cost:			,	
Life Cycle includes: BA				AC \$61.5K T	ighting \$15K /	Arena Paintii	ng \$80 9K
(reduced from \$229.4k)							15 WOO.71X



Page 565 **2 78** 

Number:	20109
---------	-------

D :	. ~ ~			Project	Cost:	<b>\$6,</b> 4	100
Project Name: Centennia	al C.C. Washroo	m Heater Repla	cement		Repai	r/Replace	<del></del>
Commission: Community	& Fire Services			Useful Life:	20		proval:
Department: Recreation	Services		Catalan		20	rie App	novai. —
Project Mgr: Bob Bell			•	ry: Minor			
Ward(s): $CW \square 1 \square$	2 □ 3 □ 4 ✔			on: Third party			
5 🗆	6□ 7□ 8□		Requirement Validation	on: Condition	assessme	nt	
DETAILED DESCRIPTION	N (SCOPE OF P	ROJECT):					
This project is to replace fou	· · · · · · · · · · · · · · · · · · ·		shrooms at Centennial C	.C.			
BUILDING MARKHAM'	S FUTURE TOGI	ETHER: Safe &	Sustainable Community		-		
			NOTES				
PROJECT COSTS (\$)	<u>2020</u>	<u>Future Phases</u>	The four washroom he	eaters were last	replaced	in 2000.	A
Cost/Quote:	6,300	0	condition assessment of	of these units in	dicate rep	placemen	nt is
Internal Charges:	0	0	warranted. The amount Cost per unit is \$1,600			ıuote plu	s inflation.
External Consulting:	0	0	Cost per unit is \$1,000	Julii including	iaboui.		
Sub Total:	6,300	0					
HST Impact:	111	0					
Total Project Cost:	6,400	0					
SOURCE(S) OF FUNDING	<u>G (\$)</u>		Components				D 4
Funding Type	<b>Budget</b>				<u>T</u> (	<u>OTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	6,400	0	0	0	0	0	0
TOTAL FUNDING	6,400					0	0
OPERATING BUDGET I	MPACT Per		rsonnel Revenues	Expenditu		renues)	
	a	\$0 \$	0 \$0		\$0		
DCA/LIFE CYCLE DETA	ILS						
<u>DCA</u> Name		Yea	Amount ar Amount Study		<u>Cycle</u>		
TVAIIIC		10	a mount study	Amo	unt in Stu	ıdy:	712,800
				Amo	unt Incl F	IST	6,400
				Year	in the st	udy	2020
DCA and/or Life Cycle	Explain if there is	a change in the vea	ar and/or cost:				
Life Cycle includes: BA	-			K . Lighting \$1	5K .Areı	na Paintir	ng \$80.9K
(reduced from \$229.4k)							-8 +000



Page 567 **27** 3

AIVAIVINITALI					11411	inder.	0110
					Project Co	st: \$23	,400
Project Name: Clatwort	hy Arena Brine l	Pump Replacem	ent			Repair/Replace	
Commission: Community	y & Fire Services			Haa			oproval:
Department: Recreation	Services					20 Pre Ap	pprovai: —
Project Mgr: Martin Bar	row		G	Category: M			
Ward(s): $CW \square 1$	2 🗆 3 🗆 4 🗆		Requirement V	Validation: R			
5 🗆	6 7 8		Kequitement v		ondition ass	essment	
DETAILED DESCRIPTION	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					
This project is to replace the istributes the secondary refulcible brine acts very simupply/return main. To ensumply/return MARKHAM	rigerant through a r ilar to a salt solutio re optimum ice is n	network of pipes loon and over time with naintained, the bring	cated within the r	efrigerated co wall thickness e replaced	ld floor, typ	ically concrete	e. Calcium
PROJECT COSTS (\$)	2020	E ( DI	NOTES				
	<u>2020</u>	Future Phases	The existing b				
Cost/Quote:	23,000	0	assessment of consistent with				ted. Cost is
Internal Charges: External Consulting:	0	0	consistent with	rrecent starr a	wara pias in	iriution.	
Sub Total:  HST Impact:	23,000 405	0					
Total Project Cost:	23,400	0					
=======================================	25,400	<u> </u>					
OURCE(S) OF FUNDING	<u>G (\$)</u>		Compon	ents			<b>Future</b>
unding Type	<u>Budget</u>					TOTAL	Phases
perating Funded Life Cycle	23,400	0	0	0	0	0	0
TOTAL FUNDING	23,400					0	0
	Per Per	rsonnel Non Pe	rsonnel Rev	renues E	xpenditures	s/(Revenues)	
OPERATING BUDGET I	MPAC1	\$0 \$	0	\$0	\$0	0	
CA/LIFE CYCLE DETA	AILS						
<u>DCA</u>				amount in	Life C	<u>ycle</u>	
Name		Ye	ar Amount	Study	Amount	in Study:	6,100
					Amount	Incl HST	23,400
					Year in	the study	2020
DCA and/or Life Cycle	: Explain if there is	a change in the ve	ar and/or cost:			,	
Life Cycle includes: Bri				ves 21.7k. Secr	urity System	10k	
Zire Cycle incrudes. Bir	ne i amps \$25. m,	shange room rines	and phower vary	21.7K, 500	arrey Bystern	1 1 0 K	



Page 569**275** 

2020 PROJECT FUNDING REQUEST FORM 20111 **Number:** 

Ducinat Names C. U.C.		D 1			Project (	Cost: \$1	9,700
Project Name: Cornell C		orm Kepiacemen	ıt			Repair/Repla	ace
Commission: Community				Ţ	Jseful Life:	8 Pre A	Approval:
Department: Recreation				Category:	Minor		11
Project Mgr: Adriano Tr	abucco		Cos	st Validation:		ostimata	
Ward(s): $CW \square 1 \square$	2 3 4 4			t Validation:			
5 🗸	6 7 8		Requiremen	t vandation.	Condition a	ssessment	
This project is to replace one are designed to enhance product by the building Markham's	e (1) genie lift (Aer ductivity in the wor	ial Platform) for co kplace.	mpleting high  Sustainable Con		he Cornell C	.C. Aerial worl	k platforms
			NOTES				
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>		aerial platfo	m was purch	ased in 2012. A	A condition
Cost/Quote:	19,400	0				ement is warran	
Internal Charges:	0	0				atform allows ed. and they de	tnem to be liver excellent
External Consulting:	0	0	uptime. The	replacement	aerial platfor	m is to service	the second
Sub Total:	19,400	0				ccomplished di	
HST Impact:	341	0				from the servic th the 2019 Lif	
Total Project Cost:	19,700	0	Reserve Stu		onsistent wi	in the 2017 En	e cycle
OURCE(S) OF FUNDING	G (\$)		Comp	onents			Futuro
unding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
perating Funded Life Cycle	19,700	0	0	0	C	0	0
TOTAL FUNDING	19,700					0	0
	MDA CET Per	rsonnel Non Pe	rsonnel R	evenues	Expenditu	res/(Revenues)	)
OPERATING BUDGET I	<u>MPACI</u>	\$0 \$	0	\$0		\$0	
OCA/LIFE CYCLE DETA	AILS						
CHILL CICLE DEIN					т :е.	<b>a</b> 1	
DCA				Amount in	<u>Liie</u>	<u>Cycle</u>	
		Yea	ar Amount	Amount in Study		<b>Cycle</b> nt in Study: [	772,000
<u>DCA</u>		Yea	ar Amount		– Amou	-	
<u>DCA</u>		Yea	ar Amount		— Amou	nt in Study:	19,700
<u>DCA</u>	· Fynlain if there is				— Amou	nt in Study:	



Page 571 2787

**Number: 20112** 

D i d N G N G	G G04 G				Project C	Cost: \$9	,300
Project Name: Cornell C.	.C. CO2 Contro	oller Keplacem	ent			Repair/Repla	ice
Commission: Community	& Fire Services			1	Useful Life:		pproval:
Department: Recreation S				Category:		0 11011	pprovar.
Project Mgr: Adriano Tra	abucco						
Ward(s): $CW \square 1 \square$	2 3 4		ъ :	Cost Validation:			
5 🗸	6 7 8		Require	ement Validation:	Condition a	ssessment	
DETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):					
This project is to replace four dioxide plays an important ro							
BUILDING MARKHAM'S	S FUTURE TOG	ETHER: Safe	& Sustainabl	e Community			
PROJECT COSTS (\$)	2020	Future Phases	NOTE The evi	Sting CO2 control	llore wore inst	tallad in 2012	A condition
Cost/Quote:	9,100	0		nent of the units in			
Internal Charges:	0	0		requested is base			ation. Cost per
External Consulting:	0	0	unit \$2,	325*4  units = \$9,	300 including	g labour.	
Sub Total:	9,100	0					
HST Impact:	160						
Total Project Cost:	9,300	0					
=							
SOURCE(S) OF FUNDING	<u> </u>		C	omponents			<u>Future</u>
Funding Type	<u>Budget</u>					TOTAL	
Operating Funded Life Cycle	9,300	0	(	0	C	0	0
TOTAL FUNDING	9,300					0	0
OPERATING BUDGET IN	APACT Pe	rsonnel Non	Personnel	Revenues	Expenditu	res/(Revenues)	)
OI EKATING BODGET IN	VII ACT	\$0	\$0	\$0		\$0	
DCA/LIFE CYCLE DETA	ILS						
<u>DCA</u>		_		Amount in	<u>Life</u>	<u>Cycle</u>	
Name			Year Amo	ount Study	— Amou	nt in Study:	772,000
						nt Incl HST	9,300
						in the study	2020
DGA 1/ 1/2 G 1	T 1	,	1./		1 cal	m are study	2020
DCA and/or Life Cycle:							
Life Cycle includes: Alui Drinking Fountains \$15k Pressure Washer \$8.4k, I	, Genie Lift \$19.7	k, Groumets \$21	.4k, Lighting	g \$47.6k, Linoleur	n Flooring \$1	1k, Painting \$7	



Page 573 **27 3 9 Number: 20113** 

**Project Cost:** \$15,000 Project Name: Cornell C.C. Drinking Fountains Replacement Repair/Replace Commission: Community & Fire Services Pre Approval: Useful Life: 10 Department: Recreation Services Category: Minor Project Mgr: Adriano Trabucco Cost Validation: Third party estimate Ward(s): Requirement Validation: Condition assessment **DETAILED DESCRIPTION (SCOPE OF PROJECT):** This project is to replace five (5) drinking fountains in various locations at the Cornell C.C. Drinking fountains provide access to water for hydration and to have a bottle filling station for patrons and to promote sustainable standards across the City. Safe & Sustainable Community **BUILDING MARKHAM'S FUTURE TOGETHER:** NOTES **PROJECT COSTS (\$)** 2020 **Future Phases** The existing water fountains were installed in 2012 and although Cost/Quote: 14,700 0 the replacement is 2 years ahead of schedule, a condition assessment of the unit indicates replacement is warranted. Cost per **Internal Charges:** 0 0 unit is \$3000 x five (5) = 15,000 including labour. The amount **External Consulting:** 0 0 requested is consistent with the 2019 Life Cycle Reserve Study update. Sub Total: 14,700 0 0 **HST Impact:** 259 **Total Project Cost:** 15,000 0 SOURCE(S) OF FUNDING (\$) **Components Future Funding Type** TOTAL **Phases Budget** Operating Funded Life Cycle 15,000 0 0 0 0 0 0 TOTAL FUNDING 15,000 0 0 Personnel Non Personnel Revenues Expenditures/(Revenues) OPERATING BUDGET IMPACT \$0 \$0 \$0 \$0 **DCA/LIFE CYCLE DETAILS DCA** Amount in **Life Cycle** Year Name **Amount** Study Amount in Study: 772,000 Amount Incl HST 15,000 Year in the study 2020 DCA and/or Life Cycle: Explain if there is a change in the year and/or cost: Life Cycle includes: Aluminum Grates \$8k, Carpet Flooring \$34k (reduced from \$39.6k), Carbon Dioxide Controller \$9.3k, Drinking Fountains \$15k, Genie Lift \$19.7k, Groumets \$21.4k, Lighting \$47.6k, Linoleum Flooring \$11k, Painting \$7.8k, Pressure Washer \$8.4k, Pumps \$84k, Security System \$216.5k, Shower Values \$17.2k, Floor Scrubber \$48.4k.



Ward(s):

#### 2020 PROJECT FUNDING REQUEST FORM

Page 575 **288** 

MARKHAM	Number: 20114
Project Name: Cornell C.C. Floor Grates Replacemen	Project Cost: \$8,000
Cornen C.C. Floor Grates Replacemen	Repair/Replace
Commission: Community & Fire Services	Useful Life: 10 Pre Approval:
Department: Recreation Services	
Project Mgr: Adriano Trabucco	Category: Minor
w 1/)	Cost Validation: Third party estimate

#### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

This project is to replace existing ten (10) floor grates located in the south vestibule entrance at Cornell C.C. Entrance floor grates help control chemical and dirt pollutants, keeping lobbies and interiors cleaner, limiting occupant exposure and reducing the use of cleaning supplies.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Susta

5 ✓ 6 □ 7 □ 8 □

Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	7,900	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	7,900	0
HST Impact:	139	0
Total Project Cost:	8,000	0

#### NOTES

Existing aluminum grates were installed in 2012 and although the replacement is 2 years ahead of schedule, a condition assessment of the units indicates that replacement is warranted. The cost per aluminum grill is  $\$800 \times 10$  locations = \$8,000. This price is inclusive of labour. The amount requested is consistent with the 2019 Life Cycle Reserve Study update.

Requirement Validation: Condition assessment

SOURCE(S) OF FUNDING (	<u></u>	Components				E4	
Funding Type	<b>Budget</b>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	8,000	0	0	0	0	0	0
TOTAL FUNDING	8,000					0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

#### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>			Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	772,000
				Amount Incl HST	8,000
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

Life Cycle includes: Aluminum Grates \$8k, Carpet Flooring \$34k (reduced from \$39.6k), Carbon Dioxide Controller \$9.3k, Drinking Fountains \$15k, Genie Lift \$19.7k, Groumets \$21.4k, Lighting \$47.6k, Linoleum Flooring \$11k, Painting \$7.8k, Pressure Washer \$8.4k, Pumps \$84k, Security System \$216.5k, Shower Values \$17.2k, Floor Scrubber \$48.4k.



Page 577 **283** 

Project Name: L'ownoil I	C C Closs Crom	mota Donlogoma	ant.		Project (	Just.	\$21,	400
Project Name: Cornell (		mets Kepiaceme	:IIL			Repa	air/Replace	2
Commission: Communit				Ţ	Jseful Life:	10	Pre Ap	oroval: $\square$
Department: Recreation				Category:	Minor		-	
Project Mgr: Adriano T			(	Cost Validation:		estima	te	<del></del>
	2 3 4 4			nent Validation:				
5 💌	<b>2</b> 6□ 7□ 8□							
DETAILED DESCRIPTION	,							
This project is to replace the structural wall to separate			ell C.C. The	grommets are us	sed to hold gl	ass par	els togeth	er that form
structurar wan to separate	community centre i	Tom poor.						
BUILDING MARKHAM	'S FUTURE TOG	ETHER: Safe &	& Sustainable (	Community				
DO LECT COSTS (A)			NOTES					
PROJECT COSTS (\$)	<u>2020</u>	Future Phases	Due to the	e humid environ				
Cost/Quote:	21,000	0		or of the pool are				
Internal Charges:	0	0		nt, the glass groi wall requires re				
External Consulting:	0	0	the pool a	area that need to	be replaced.	The ne	ew gromm	ets will be
Sub Total:	21,000	0		r the environmen				
HST Impact:	370	0	update.	is consistent wi	ui iiie 2019 i	Life Cy	cie Reserv	e Study
Total Project Cost:	21,400	0						
OURCE(S) OF FUNDIN	[G (\$)		Cor	nponents				
unding Type						n	ГОТАТ	<u>Future</u>
ununig Type	Budget					_	<u>FOTAL</u>	<u>Phases</u>
perating Funded Life Cycle	21,400	0	0	0	(	)	0	0
								0
TOTAL FUNDING	21,400						0	
TOTAL FUNDING	21,400						0	
	Po	rsonnel Non P	ersonnel	Revenues	Expenditu	res/(Re		
	Po		Personnel	Revenues \$0	Expenditu	res/(Re		
TOTAL FUNDING  DPERATING BUDGET  DCA/LIFE CYCLE DETA	IMPACT Pe				Expenditu			
OPERATING BUDGET	IMPACT Pe	\$0	\$0	\$0  Amount in				
DPERATING BUDGET	IMPACT Pe	\$0		\$0  Amount in	<u>Life</u>	\$0  Cycle	evenues)	772,000
DPERATING BUDGET DECA/LIFE CYCLE DETA  DCA	IMPACT Pe	\$0	\$0	\$0  Amount in	<u>Life</u> — Amou	\$0  Cycle  Int in S	evenues)	772,000
DPERATING BUDGET DECA/LIFE CYCLE DETA  DCA	IMPACT Pe	\$0	\$0	\$0  Amount in	Life — Amou Amou	\$0  Cycle  Int in S  Int Incl	tudy:	772,000 21,400
DPERATING BUDGET :  DCA/LIFE CYCLE DETA  DCA  Name	IMPACT Per	\$0 Ye	\$0	\$0  Amount in Study	Life — Amou Amou	\$0  Cycle  Int in S	tudy:	772,000
DPERATING BUDGET DEA/LIFE CYCLE DET/DCA Name  DCA and/or Life Cycle	IMPACT  AILS  e: Explain if there is	\$0 You	ear Amou	\$0  Amount in Study  St:	Life — Amou Amou Year	\$0  Cycle  Int in S  Int Incl  in the	tudy: HST study	772,000 21,400 2020
DPERATING BUDGET DEA/LIFE CYCLE DETA/DCA Name  DCA and/or Life Cycle Life Cycle includes: Al	IMPACT  AILS  e: Explain if there is uminum Grates \$8k	\$0 You s a change in the year, Carpet Flooring S	ear Amous	\$0  Amount in Study  st: d from \$39.6k)	Life  — Amou  Amou  Year	\$0  Cycle  Int in S  Int Incl  in the s  xide Co	tudy: HST study ontroller \$	772,000 21,400 2020 9.3k,
DPERATING BUDGET DEA/LIFE CYCLE DET/DCA Name  DCA and/or Life Cycle	e: Explain if there is luminum Grates \$8k 5k, Genie Lift \$19.7	\$0  You  s a change in the year, Carpet Flooring St, Groumets \$21.4	ear Amous ear and/or cos \$34k (reduce k, Lighting \$	Amount in Study  st: d from \$39.6k),	Life Amou Amou Year , Carbon Dio n Flooring \$1	\$0  Cycle  Int in S  Int Incl  In the s  xide Co	tudy: HST study controller \$ inting \$7.8	772,000 21,400 2020 9.3k,
DPERATING BUDGET  DCA/LIFE CYCLE DETA  DCA  Name  DCA and/or Life Cycle  Life Cycle includes: Al  Drinking Fountains \$15	e: Explain if there is luminum Grates \$8k 5k, Genie Lift \$19.7	\$0  You  s a change in the year, Carpet Flooring St, Groumets \$21.4	ear Amous ear and/or cos \$34k (reduce k, Lighting \$	Amount in Study  st: d from \$39.6k),	Life Amou Amou Year , Carbon Dio n Flooring \$1	\$0  Cycle  Int in S  Int Incl  In the s  xide Co	tudy: HST study controller \$ inting \$7.8	772,000 21,400 2020 9.3k,
DPERATING BUDGET  DCA/LIFE CYCLE DETA  DCA  Name  DCA and/or Life Cycle  Life Cycle includes: Al  Drinking Fountains \$15	e: Explain if there is luminum Grates \$8k 5k, Genie Lift \$19.7	\$0  You  s a change in the year, Carpet Flooring St, Groumets \$21.4	ear Amous ear and/or cos \$34k (reduce k, Lighting \$	Amount in Study  st: d from \$39.6k),	Life Amou Amou Year , Carbon Dio n Flooring \$1	\$0  Cycle  Int in S  Int Incl  In the s  xide Co	tudy: HST study controller \$ inting \$7.8	772,000 21,400 2020 9.3k,



Page 579**285** 

	. ~				Project (	Cost:	<b>\$34</b> .	,000
Project Name: Cornell C	C.C. Library Car	pet Replacement	t			Rena	ir/Replac	ee
Commission: Community	& Fire Services			1	Useful Life:	8		proval:
Department: Recreation	Services			Category:		0	rie Ap	provai. —
Project Mgr: Adriano Tr	abucco		C	• •		. 1.		
Ward(s): $CW \square 1 \square$	2 🗆 3 🗆 4 🗆				Recent awa			
5 🗸	6 7 8		Requirement	v andadon:	Condition a	.ssessine	ли ———	
ETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):						
his project is to replace the ooring for the library space		1 0		•	the Cornell C	.C. Carp	pet is a pr	efered
ooring for the horary space	e, because it is water	r resistance and pro	ovides better acc	ousues.				
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Safe &	Sustainable Com	munity				
ROJECT COSTS (\$)	2020	E-4 Discour	NOTES					
	<u>2020</u>	Future Phases	The existing of					
Cost/Quote:	33,400	0	assessment of carpet tiles we					
Internal Charges: External Consulting:	0	0	2019 award a	t Angus Gle	en carpet tile	was \$4.9	97 sqft X	6,818  sqft =
<del>-</del>			\$33,885.46, c The amount r					
Sub Total:  HST Impact:	33,400	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	Reserve Study		consistent wi	m me zo	J19 Lile	Cycle
Total Project Cost:								
=	34,000	0						
OURCE(S) OF FUNDING	G (\$)		Compo	nents				
unding Type	Budget						OTAL	<u>Future</u> <u>Phases</u>
perating Funded Life Cycle	34,000	0	0	0	(	)	0	0
TOTAL FUNDING	34,000					-	0	0
101112101121110								
	Pe.	rsonnel Non Pe	rsonnel Re	venues	Expenditu	res/(Re	venues)	
PERATING BUDGET I	<u>MIPACI</u>	\$0 \$	0	\$0		\$0		
CA/LIFE CYCLE DETA	AILS							
<u>DCA</u>				Amount in	<u>Life</u>	<u>Cycle</u>		
Name		Yea	ar Amount	Study	— Amou	ınt in Stı	udy:	772,000
					Amou	ınt Incl I	HST	34,000
					Year	in the st	tudv	2020
DCA and/or Life Cycle	· Explain if there is	a change in the yea	ar and/or cost					
Life Cycle includes: Alu	1			m \$39 6k)	Carbon Dio	xide Co	ntroller S	39 3k
Drinking Fountains \$15								
Pressure Washer \$8.4k,	Pumps \$84k, Secu	rity System \$216.5k	k, Shower Value	s \$17.2k, F	loor Scrubber	r \$48.4k	-	



Page 581**2789**Number: 20118

						Project (	Cost: \$8	3,400
Project Name: Cornell Co	.C. Power Wasl	ner Repla	cement				Repair/Repla	ace
Commission: Community	& Fire Services				Į	Jseful Life:		pproval:
Department: Recreation S					Category:		10	-pprovide
Project Mgr: Adriano Tra				Co	est Validation:		estimate	
, ,	2 3 4				nt Validation:			
	6 7 8			- requirement	,			
DETAILED DESCRIPTIO			•					
This project is to replace one changerooms at the Cornell C exterior of the facilty will ensure BUILDING MARKHAM'S	C.C. The corrosive sure the industry li	e environme ifespan of t	ent has bee the unit is n	n rectified in	n 2019 by re-l			
BUILDING MARKHAM R	S FOTOKE 100	ETHER.	Suite & S					
PROJECT COSTS (\$)	<u>2020</u>	<b>Future</b>	Phases Phases	NOTES The existing	g nower washe	er was install	ed in 2012 and	although the
Cost/Quote:	8,300		0	replacemen	t is 2 years ah	ead of schedu	ıle, a condition	assessment of
Internal Charges:	0		0				nted. The correl by re-locating	
External Consulting:	0		0				lty will extend	
Sub Total:	8,300		0_	of the new	unit. Cost for t	he unit is bas	sed on a recent	quote.
HST Impact:	146		0					
Total Project Cost:	8,400		0					
SOURCE(S) OF FUNDING	<del>(</del> \$)		-	Comp	onents			T (
Funding Type	<u>Budget</u>						TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	8,400		0	0	0	(	) 0	0
TOTAL FUNDING	8,400						0	0
	Pe Pe	rsonnel	Non Pers	onnel I	Revenues	Expenditu	res/(Revenues	)
OPERATING BUDGET IN	MPACT	\$0	\$0		\$0	_	\$0	
DCA/LIFE CYCLE DETA	<u>ILS</u>							
<u>DCA</u>					Amount in	<u>Life</u>	<u>Cycle</u>	
Name			Year	Amount	Study	– Amou	nt in Study:	772,000
						Amou	nt Incl HST	8,400
						Year	in the study	2020
DCA and/or Life Cycle:	Explain if there is	s a change	in the vear	and/or cost·			<u> </u>	
Life Cycle includes: Alu Drinking Fountains \$15k Pressure Washer \$8.4k, I	minum Grates \$8k x, Genie Lift \$19.7	, Carpet Fl	looring \$34 ets \$21.4k,	k (reduced Lighting \$4	from \$39.6k) , 7.6k, Linoleun	n Flooring \$1	1k, Painting \$'	



Page 583 **29**8

Duningt Names G U G					Project C	Cost: \$8	34,000
Project Name: Cornell C.		acement				Repair/Repl	ace
Commission: Community				U	seful Life:	8 Pre A	Approval:
Department: Recreation S				Category:	Minor		11
Project Mgr: Adriano Tra	lbucco		Cos	t Validation:		rde	
Ward(s): $CW \square 1 \square$	2 🗆 3 🗆 4 🗆			Validation:			
5 🗸	6□ 7□ 8□		Requirement	vandation.	Condition as	SSCSSITICIT	
DETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):					
This project is to replace eight pool mechancial room at Corbon BUILDING MARKHAM'S	nell C.C. The pum	ps serve the pool v		l waste pits, gl			
	710101010			•			
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	NOTES The existing	pumps were i	nstalled in 2	012 and are lo	cated in the
Cost/Quote:	82,500	0	pump room.	A condition a	ssessment of	f the pumps in	dicates
Internal Charges:	0	0					onsistent with
External Consulting:	0	0	tne 2019 Life	e Cycle Reser	ve Study upo	iate.	
Sub Total:	82,500	0					
HST Impact:	1,452	0					
Total Project Cost:	84,000	0					
SOURCE(S) OF FUNDING	<del>; (\$)</del>		Compo	onents			<b>.</b>
Funding Type	<u>Budget</u>	11 Pool Pumps	7 Mechanical Pumps			TOTAL	Future Phases
Operating Funded Life Cycle	84,000	60,000	24,000	0	0	84,000	0
TOTAL FUNDING	84,000					84,000	
	D	rsonnel Non Pe	ersonnel R	evenues	Expenditur	es/(Revenues	)
ODED ATIMO DUDOET IN	ADA CT Pel	Some Ton I	d Sommer IX	evenues	Lapenaitai		
OPERATING BUDGET IN	MPACT Per		60	\$0	•	\$0	
	<b>МРАСТ</b>				•	·	
	<b>МРАСТ</b>					\$0	
DCA/LIFE CYCLE DETA	<b>МРАСТ</b>		60	\$0	Life (	\$0 Cycle	772 000
DCA/LIFE CYCLE DETA	<b>МРАСТ</b>	\$0 \$	60	\$0  Amount in	Life (	\$0  Cycle  nt in Study:	772,000
DCA/LIFE CYCLE DETA	<b>МРАСТ</b>	\$0 \$	60	\$0  Amount in	Life (	\$0  Cycle  nt in Study:  nt Incl HST	84,000
DCA/LIFE CYCLE DETA	<b>МРАСТ</b>	\$0 \$	60	\$0  Amount in	Life (	\$0  Cycle  nt in Study:	
DCA/LIFE CYCLE DETA	ILS	\$0 \$	ar Amount	\$0  Amount in	Life (	\$0  Cycle  nt in Study:  nt Incl HST	84,000



Page 585**233** 

Project Name: <b>Cornell C</b>	C Shower Vol	vos <b>D</b> onlogomon	<b>.</b> <del>.</del>		Project (	Cost:	\$17,	,200
		ves replacemen	11			Repair	r/Replac	e
Commission: Community				1	Useful Life:	12	Pre Ap	proval: $\square$
Department: Recreation				Category:	Minor			
Project Mgr: Adriano Tra				Cost Validation:	Third party	estimate	<del></del>	
	2 3 4		Require	ement Validation:				
	6□ 7□ 8□		1					
ETAILED DESCRIPTIO								
his project is to replace 36 rater flow in showers. The confined space which staff caproices.	existing shower va	lves are electronic	and malfur	nction frequently.	The replaces	ment part	ts are loc	cated in a
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Safe	& Sustainabl	e Community				
PROJECT COSTS (\$)	2020	Future Phases	NOTE	_				
Cost/Quote:	16,950	0		sting shower valv ment is 4 years ah				_
_	0	0		s indicates replac				
Internal Charges: External Consulting:	0	0	2018 (b	atteries, switch, h	older and tim	ner) was S	\$8,000 a	and plumber
				cost \$9100. The re (36 valves * \$490)				
Sub Total: _	16,950 298	0		posal. Cost is con				
HST Impact: _ Total Project Cost:			The am	ount requested is				
	17,200	0	Reserve	e Study update.				
OURCE(S) OF FUNDING	<u> </u>		C	omponents				Future
unding Type	<u>Budget</u>					<u>T(</u>	OTAL	<u>Phases</u>
perating Funded Life Cycle	17,200	0	(	0	(	)	0	0
TOTAL FUNDING	17,200						0	0
	Pe	rsonnel Non F	Personnel	Revenues	Expenditu	res/(Rev	enues)	
OPERATING BUDGET I	MPACT		\$0	\$0	<b>F</b>	\$0		
CA/LIFE CYCLE DETA	ILS			· · · · · · · · · · · · · · · · · · ·				
<u>DCA</u>				Amount in	<u>Life</u>	Cycle		
Name		Y	ear Amo	ount Study	— Amou	ınt in Stu	ıdv.	772,000
						int Incl H	•	17,200
					y ear	in the stu	udy	2020
DCA and/or Life Cycle:	-							
Life Cycle includes: Alu Drinking Fountains \$15k Pressure Washer \$8.4k,	x, Genie Lift \$19.7	k, Groumets \$21.4	4k, Lighting	\$47.6k, Linoleur	n Flooring \$1	l 1k, Pain	ting \$7.8	



Page 587**295** 

MARKHAM	2020 PKO	JECI FUNDIN	NG REQUEST FO	N N	umber:	20121
Project Name: Croshy C.	.C. Garbage F	ence Enclosure Rer	lacement	Project (	Cost:	\$8,000
Commission: Community Department: Recreation Project Mgr: Scott Hill Ward(s): CW 1 1 5 1  DETAILED DESCRIPTION	ARKHAM  Crosby C.C. Garbage Fence Enclosure Replacement  Repair/It  mission: Community & Fire Services  partment: Recreation Services  piect Mgr: Scott Hill  ard(s): CW		t			
SUILDING MARKHAM'	S FUTURE TO	GETHER: Safe & S	ustainable Community			
Internal Charges: External Consulting:  Sub Total: HST Impact:	7,900	0	The existing fence was la assessment of the fence in	ndicates repla	acement is	s warranted. The
<b>Total Project Cost:</b>	8,000	0				

SOURCE(S) OF FUNDING (S	<u> </u>		Compon	ents			E4
Funding Type	<b>Budget</b>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	8,000	0	0	0	0	0	0
TOTAL FUNDING	8,000				_	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
OT LIKE THE COURT OF THE COURT	\$0	\$0	\$0	\$0

DCA/LIFE CYCLE DETAILS

<u>DCA</u>	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 125,100
		Amount Incl HST 8,000
		Year in the study 2020
DCA and/or Life Cycle: Explain if ther	re is a change in the year and/or cost:	
Life Cycle includes: Rubber Flooring \$	49.2k, Millwork \$52.4k, Pumps \$36.6k (reduced from	om \$40.78k), Fence \$8k



## 2020

Page 589 **66** 

DDA IECT EUNDING DEAUEST EADM	<b>7</b> .		JI
PROJECT FUNDING REQUEST FORM	Number:	20122	
Pi	roject Cost:	\$47,600	

Project Name: Cro	ochy C C M	fillwork <b>D</b> a	nlocomo	nt			J	-	Ψ-17,	000
			piaceine					Repair	/Replace	e
Commission: Cor						Ţ	Jseful Life:	15	Pre Ap	oroval: $\square$
Department: Rec		es				Category:	Minor			-
Project Mgr: Sco					Co	st Validation:		estimate		
Ward(s): CW	□ 1□ 2□					nt Validation:	-		ıf	
	5 🗆 6 🗆	7□ 8□			requiremen	n vandanom	Condition	.sscssiiici		
DETAILED DESC										
This project is to rep f the counter tops houghty.  BUILDING MARK	ave deteriorate	ed and crack	ed due to	age. It is esso		he counters be				
JOHEDING MAKE	XIIAW 5 FC	TORE TOO	ETHER.							
PROJECT COSTS	<u>(\$)</u> <u>20</u>	<u> 20</u>	<u>Future</u>	Phacec	NOTES The millwo	rk units in the	lobby washr	oome and	l the hal	Lwachroome
Cost/Qu	uote:	46,800				placed in 1999				
Internal Char	rges:	0				lacement is w		st per uni	t is cons	istent with
External Consul	ting:	0		0	recent quote	e plus inflation	n.			
Sub T	otal:	46,800		0						
HST Imp	pact:	824		0						
Total Project C	Cost:	47,600		0						
OURCE(S) OF FU	UNDING (\$)				Comp	onents				F 4
unding Type		Budget						<u>TC</u>	<u> TAL</u>	Future Phases
perating Funded Life	Cycle	47,600		0	0	0	(	)	0	0
TOTAL FUNDIN	G =	47,600							0	0
		Do		Non Perso		<b></b>	E 1:4	/(D		
OPERATING BUL	OGET IMPA	CT Pe	rsonnel		omiei r	Revenues	Expenditu		enues)	
	DETAILS		\$0	\$0		\$0		\$0		
OCA/LIFE CYCLE  DCA	<u>E DETAILS</u>					Amount in	T :fo	Cycle		
Name				Year	Amount			•	_	
						<u> </u>		ınt in Stu	•	125,100
							Amou	nt Incl H	ST	47,600
							Year	in the stu	ıdy	2020
DCA and/or Lif	e Cycle: Expl	ain if there is	a change	in the year a	and/or cost:					
Life Cycle includ	des: Rubber F	looring \$49.2	2k, Millwo	ork \$52.4k, l	Pumps \$36.	6k (reduced fi	rom \$40.78k)	, Fence \$	58k	
1										



Page 591 **299** 

2020 PROJECT FUNDING REQUEST FORM 20123 **Number:** 

Project Name: Crosby C.	.C. Pump Repla	cement				Project (	Cost:	\$36,	600
Commission: Community							Repair	Replac	<u>e</u>
Department: Recreation			_		J	Jseful Life:	12	Pre Ap	proval: $\square$
Project Mgr: Scott Hill	Services		_		Category:	Minor			
	2□ 3♥ 4□		_	Cos	t Validation:	Third party	estimate		
	2		Red	quiremen	t Validation:	Condition a	ssessmen	t	
DETAILED DESCRIPTION		DOTECT).							
This project is to replace one efrigeration room and one (upplying refrigerant through	e (1) glycol pump, 1) recirculating pun n a network of pipi	one (1) brine pu mp for the west ng underneath th	mechanic	al room a te floor.	at the Crosby				
PROJECT COSTS (\$)	2020	Future Phase	NO NO	OTES					
			- The						ear ahead of
Cost/Quote:	36,000	0			condition asse unit is consis				
Internal Charges: External Consulting:	0	0					4	F	
_			-						
Sub Total: _ HST Impact:	36,000 634	$\frac{0}{0}$	-						
Total Project Cost:	36,600		-						
=	30,000								
OURCE(S) OF FUNDING	<u> </u>			Compo	onents				<u>Future</u>
unding Type	<u>Budget</u>						<u>TO</u>	TAL	Phases
perating Funded Life Cycle	36,600	0		0	0	(	)	0	0
TOTAL FUNDING	36,600							0	0
OPERATING BUDGET I	MPACT Pe	rsonnel Non	Personr	nel R	evenues \$0	Expenditu	res/(Reve	enues)	
CA/LIFE CYCLE DETA	ILS								
<u>DCA</u>			₹7		Amount in	<u>Life</u>	Cycle Cycle		
Name			Year A	Amount	Study	– Amou	ınt in Stud	ly:	125,100
						Amou	nt Incl H	ST	36,600
						Year	in the stu	dy	2020
DCA and/or Life Cycle:	· Evnlain if there is	a change in the	vear and	or cost:					
Life Cycle includes: Rub	-				k (reduced fr	om \$40.78k	), Fence \$	8k	



Page 593 **30**8

Number:	20124
vamber.	4V14 <b>T</b>

**Project Cost:** 

		4 D. J.		Project (	Cost:	\$35,700
Project Name: ECO Car		ment Replaceme	ent		Repair/Re	eplace
Commission: Community				Useful Life:	15 Pr	e Approval:
Department: Recreation			Category	y: Minor		11
Project Mgr: <u>Luke Hilts</u>			Cost Validatio		estimate	
Ward(s): $CW \square 1 \square$	2 3 4 🗸		Requirement Validation	-		
5 🗆	□ 6□ 7□ 8□		requirement variouslos	i. Condition t	SSCSSITICITE	
DETAILED DESCRIPTION		· · · · · · · · · · · · · · · · · · ·				
This project is to replace variable of the control		equipment due for	replacement at Camp Ch	imo. In 2018,	1,046 registe	ered participants
ook part in programs at Car	mp Cnimo.					
BUILDING MARKHAM	'S FUTURE TOG	ETHER: Safe &	Sustainable Community			
PROJECT COSTS (\$)	2020	Future Phases	NOTES			
Cost/Quote:	35,100	0	The items due for repla			
			and canoes. A condition warranted. The amount			
Internal Charges: External Consulting:	0	0	Cycle Reserve Study up			
-						
Sub Total:	35,100	0				
HST Impact: Total Project Cost:	618	0				
Total Froject Cost:	35,700	0				
OURCE(S) OF FUNDING	<u>G (\$)</u>		Components			<b>-</b>
						<u>Future</u>
unding Type	<b>Budget</b>				TOT.	AL Phases
	<b>Budget</b> 35,700	0	0 0	(	<u>TOT</u>	AL Phases 0 0
Operating Funded Life Cycle	35,700	0	0 0	(		0 0
		0	0 0	(		
Operating Funded Life Cycle TOTAL FUNDING	35,700 35,700	0 rsonnel Non Pe				0 0
Operating Funded Life Cycle TOTAL FUNDING	35,700 35,700		rsonnel Revenues		res/(Revenu	0 0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I	35,700  35,700  Pe	rsonnel Non Pe	rsonnel Revenues		)	0 0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I	35,700  35,700  Pe	rsonnel Non Pe	rsonnel Revenues 0 \$0	Expenditu	res/(Revenu	0 0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I	35,700  35,700  Pe	rsonnel Non Pe	rsonnel Revenues 0 \$0  Amount i	Expenditu n <u>Life</u>	res/(Revenu \$0	0 0 0 0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  OCA/LIFE CYCLE DETA  DCA	35,700  35,700  Pe	rsonnel Non Pe \$0 \$	rsonnel Revenues 0 \$0  Amount i	Expenditu n <u>Life</u> — Amou	res/(Revenu \$0 Cycle ant in Study:	0 0 0 0 0 ess)
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  OCA/LIFE CYCLE DETA  DCA	35,700  35,700  Pe	rsonnel Non Pe \$0 \$	rsonnel Revenues 0 \$0  Amount i	Expenditu  n <u>Life</u> — Amou	res/(Revenue \$0  Cycle ant in Study:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
OPERATING BUDGET I  OCA/LIFE CYCLE DETA  DCA	35,700  35,700  Pe	rsonnel Non Pe \$0 \$	rsonnel Revenues 0 \$0  Amount i	Expenditu  n <u>Life</u> — Amou	res/(Revenu \$0 Cycle ant in Study:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  OCA/LIFE CYCLE DETA  DCA	35,700  35,700  Pe  AILS	rsonnel Non Pe \$0 \$ Yes	rsonnel Revenues 0 \$0  Amount in Amount Study	Expenditu  n <u>Life</u> — Amou	res/(Revenue \$0  Cycle ant in Study:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Departing Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA  Name  DCA and/or Life Cycle	35,700  35,700  Pe  AILS  e: Explain if there is	rsonnel Non Pe \$0 \$  Yea  s a change in the yea	rsonnel Revenues 0 \$0  Amount in Amount Study	Expenditu  n <u>Life</u> — Amou  Amou  Year	res/(Revenue \$0  Cycle ant in Study:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  OCA/LIFE CYCLE DETA  DCA  Name  DCA and/or Life Cycle	35,700  35,700  Pe  AILS  e: Explain if there is	rsonnel Non Pe \$0 \$  Yea  s a change in the yea	rsonnel Revenues 0 \$0  Amount in Amount Study  ar and/or cost:	Expenditu  n <u>Life</u> — Amou  Amou  Year	res/(Revenue \$0  Cycle ant in Study:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  OCA/LIFE CYCLE DETA  DCA  Name  DCA and/or Life Cycle	35,700  35,700  Pe  AILS  e: Explain if there is	rsonnel Non Pe \$0 \$  Yea  s a change in the yea	rsonnel Revenues 0 \$0  Amount in Amount Study  ar and/or cost:	Expenditu  n <u>Life</u> — Amou  Amou  Year	res/(Revenue \$0  Cycle ant in Study:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  OCA/LIFE CYCLE DETA  DCA  Name  DCA and/or Life Cycle	35,700  35,700  Pe  AILS  e: Explain if there is	rsonnel Non Pe \$0 \$ Yea s a change in the yea	rsonnel Revenues 0 \$0  Amount in Amount Study  ar and/or cost:	Expenditu  n <u>Life</u> — Amou  Amou  Year	res/(Revenue \$0  Cycle ant in Study:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  OCA/LIFE CYCLE DETA  DCA  Name  DCA and/or Life Cycle	35,700  35,700  Pe  AILS  e: Explain if there is	rsonnel Non Pe \$0 \$ Yea s a change in the yea	rsonnel Revenues 0 \$0  Amount in Amount Study  ar and/or cost:	Expenditu  n <u>Life</u> — Amou  Amou  Year	res/(Revenue \$0  Cycle ant in Study:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0



Page 595 **303** 

Number: 20125	5
---------------	---

	an House Boiler	Ranlacaman	t		Project (	<b>5051. 52</b>	4,000
		Replacemen				Repair/Repl	ace
Commission: Communit	-			Ţ	Jseful Life:	20 Pre A	Approval: $\square$
Department: Recreation			<del></del>	Category:	Minor		
Project Mgr: Martin Bar			_	Cost Validation:	Recent awa	ırds	
	2 3 4 4		Requir	ement Validation:			
	6 7 8		•				
CETAILED DESCRIPTION This project is to replace on the facility's show that throughout the facility BUILDING MARKHAM	ne (1) boiler in the 1 vers and washrooms y.	mechanical rooms. The replacem		er will support ma			
			NOTE	ES.			
PROJECT COSTS (\$)	<u>2020</u>	Future Phas	CPC	isting boiler was in	nstalled in 20	04 and althoug	h the
Cost/Quote:	23,600	(		ment is 4 years ah			
Internal Charges:	0	(		t indicates replacer man House, one re			
External Consulting:	0	(		eplaced in order fo			
Sub Total:	23,600	(		ling and lead of or			sted is
HST Impact:	415	(	o consist	ent with recent sta	ff award plus	inflation.	
Total Project Cost:	24,000	(	<u>0</u>				
OURCE(S) OF FUNDIN	<u>G (\$)</u>		C	omponents			Entono
unding Type	<u>Budget</u>					TOTAL	Future Phases
perating Funded Life Cycle	24,000	0	)	0 0		0	0
	24,000					0	0
TOTAL FUNDING	24,000						
	Pe	ersonnel No	on Personnel	Revenues	Expenditu	res/(Revenues	
	Pe	ersonnel No	on Personnel \$0	Revenues \$0	Expenditu		
PERATING BUDGET	IMPACT Pe				Expenditu	res/(Revenues	
OPERATING BUDGET	IMPACT Pe		\$0	\$0  Amount in		res/(Revenues	
DPERATING BUDGET DETAILED	IMPACT Pe			\$0  Amount in	<u>Life</u>	res/(Revenues \$0 Cycle	)
DPERATING BUDGET DETAILED DETAILED	IMPACT Pe		\$0	\$0  Amount in	Life — Amou	res/(Revenues \$0 Cycle unt in Study:	58,800
DPERATING BUDGET DETAILED DETAILED	IMPACT Pe		\$0	\$0  Amount in	Life — Amou Amou	res/(Revenues \$0  Cycle  Int in Study: [ Int Incl HST [	58,800
DPERATING BUDGET I DCA/LIFE CYCLE DETA DCA Name	IMPACT Pe	\$0	\$0  Year Amo	\$0  Amount in Study	Life — Amou Amou	res/(Revenues \$0 Cycle unt in Study:	58,800
DPERATING BUDGET INCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	IMPACT  AILS  e: Explain if there i	\$0 s a change in th	\$0  Year Amo	\$0  Amount in Study  Cost:	Life — Amou Amou Year	res/(Revenues \$0  Cycle  Int in Study: [ Int Incl HST [ In the study [	58,800 24,000 2020
DPERATING BUDGET I DCA/LIFE CYCLE DETA DCA Name	IMPACT  AILS  e: Explain if there i	\$0 s a change in th	\$0  Year Amo	\$0  Amount in Study  Cost:	Life — Amou Amou Year	res/(Revenues \$0  Cycle  Int in Study: [ Int Incl HST [ In the study [	58,800 24,000 2020
DPERATING BUDGET INCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	IMPACT  AILS  e: Explain if there i	\$0 s a change in th	\$0  Year Amo	\$0  Amount in Study  Cost:	Life — Amou Amou Year	res/(Revenues \$0  Cycle  Int in Study: [ Int Incl HST [ In the study [	58,800 24,000 2020
DPERATING BUDGET INCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	IMPACT  AILS  e: Explain if there i	\$0 s a change in th	\$0  Year Amo	\$0  Amount in Study  Cost:	Life — Amou Amou Year	res/(Revenues \$0  Cycle  Int in Study: [ Int Incl HST [ In the study [	58,800 24,000 2020
DPERATING BUDGET INCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	IMPACT  AILS  e: Explain if there i	\$0 s a change in th	\$0  Year Amo	\$0  Amount in Study  Cost:	Life — Amou Amou Year	res/(Revenues \$0  Cycle  Int in Study: [ Int Incl HST [ In the study [	58,800 24,000 2020



Page 597**305** 

2020 PROJECT FUNDING REQUEST FORM 20126 Number: ¢7 100

Duning the Name of the t		O T	,			Project (	Cost: \$7	7,100
Project Name: Heintzma	<del>-</del>	ice Gas Ins	sert				Repair/Repl	ace
Commission: Community	& Fire Services				Į	Jseful Life:	15 Pre A	Approval:
Department: Recreation			<u></u>		Category:		10	-FF
Project Mgr: Martin Barr	row			(	Cost Validation:		, astimata	
Ward(s): $CW \square 1$	2 🗆 3 🗆 4 🗆				ent Validation:			
5 🗆	6 7 8			Requiren	ciit vanuation.	Condition a	1886881116111	
ETAILED DESCRIPTIO	ON (SCOPE OF P	ROJECT):						
his project is to install a ga replace, it is not used for sa sert which can be used by a UILDING MARKHAM'	afety reasons and drental groups. This	oes not meet will improv	ting Fire ( e the aest	Code. The hetics of t	existing firepla	ce will be re	placed with a g	as fireplace
ROJECT COSTS (\$)				NOTES	·			
	<u>2020</u>	<u>Future Pl</u>		The exist	ing fireplace wa			
Cost/Quote:	7,000			building. plus infla	The amount req	uested is cor	isistent with the	e recent quot
Internal Charges:	0		-	Pius iiiia	.1011.			
External Consulting:	0		0					
Sub Total:	7,000		0					
HST Impact:	123		0					
Total Project Cost:	7,100		0					
OURCE(S) OF FUNDING	<u>; (\$)</u>			Con	nponents			Future
ınding Type	<b>Budget</b>						TOTAL	
erating Funded Life Cycle	7,100		0	0	0		0 0	
TOTAL FUNDING	7,100						0	
PERATING BUDGET I	MPACT Pe	rsonnel 1	Non Pers	onnel	Revenues	Expenditu	res/(Revenues	)
TERATING BUDGET I	MIACI	\$0	\$0		\$0		\$0	
CA/LIFE CYCLE DETA	ILS							
<u>DCA</u>					Amount in	<u>Life</u>	Cycle	
Name			Year	Amou	nt Study	– Amoı	ant in Study:	58,800
							int Incl HST	7,100
							in the study	2020
DOA . 1/ LIS C :	. ID11 10:4		at.	17	.4.	1 Cal	in the study	2020
DCA and/or Life Cycle	-							
Life Cycle includes: Boi	ler \$24k, Fireplace	e \$7.8k (redu	iced from	\$8k), Flo	or refinishing \$	19.9k, Kitch	en Stove \$8.1k	



Page 599 **307** 

Number:	20128	

Duciact Names II . 4	<b>II</b> G, 1	D 1		Project	Cost:	\$8,1	100
Project Name: Heintzma		Replacement			Repair	·/Replace	e
Commission: Community	y & Fire Services			Useful Life:	12	Pre An	proval:
Department: Recreation			Cate	gory: Minor	12	110 / Ip	provur.
Project Mgr: Martin Bar	TOW				4:4-		
Ward(s): $CW \square 1$	2 3 4 4			ation: Third part	-		
5 🗆	6 7 8		Requirement Valida	Condition	assessmer	11	
DETAILED DESCRIPTION	ON (SCOPE OF P	'ROJECT):					
This project is to replace on support providing this space for wedding functions, whic	e with a functioning h require use of a s	kitchen that can be stove.		ts. The Heintzman			
BUILDING WARRHAM	S FUTURE TOG	EIHER: Saic &					
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	NOTES The existing industr	rial grade stove w	ac lact inc	allad in	2008 A
Cost/Quote:	8,000	0	condition assessmen				
Internal Charges:	0	0	The amount request		ith the 20	19 Life	Cycle
External Consulting:	0	0	Reserve Study upda	te.			
Sub Total:	8,000	0					
HST Impact:	141	0					
<b>Total Project Cost:</b>	8,100	0					
SOURCE(S) OF FUNDING	<u>G (\$)</u>		Components				E-4
Funding Type	<u>Budget</u>				<u>T(</u>	<u>)TAL</u>	<u>Future</u> <u>Phases</u>
	8,100	0	0	0	0	0	0
Operating Funded Life Cycle	0,100	· ·					
Operating Funded Life Cycle  TOTAL FUNDING	8,100	Ü				0	
	8,100		ersonnel Revenue	s Expendit	ures/(Rev		0
	8,100	ersonnel Non Pe	ersonnel Revenue	s Expendit	ures/(Rev		
TOTAL FUNDING  OPERATING BUDGET I	8,100 Pe	ersonnel Non Pe		s Expenditu	•		
TOTAL FUNDING  OPERATING BUDGET I	8,100 Pe	ersonnel Non Pe		•	•		0
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA	8,100 Pe	ersonnel Non Pe	60 \$0 Amou	nt in <u>Lif</u> d	\$0	enues)	
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA	8,100 Pe	ersonnel Non Pe	60 \$0 Amou	nt in <u>Life</u> dy Amo	\$0 e Cycle ount in Stu	enues)	58,800
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA	8,100 Pe	ersonnel Non Pe	60 \$0 Amou	nt in <u>Life</u> dy Amo	\$0  e Cycle  ount in Stu  unt Incl H	dy:	58,800 8,100
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	8,100 Pe MPACT AILS	srsonnel Non Pe	Amou Stu	nt in <u>Life</u> dy Amo	\$0 e Cycle ount in Stu	dy:	58,800
OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	8,100 Pe MPACT AILS Explain if there is	rsonnel Non Pe \$0 \$  Yes s a change in the yes	Amount Stu  ar and/or cost:	nt in Life dy Amo Amo Year	\$0 e Cycle ount in Stu unt Incl H in the stu	dy:	58,800 8,100
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	8,100 Pe MPACT AILS Explain if there is	rsonnel Non Pe \$0 \$  Yes s a change in the yes	Amount Stu  ar and/or cost:	nt in Life dy Amo Amo Year	\$0 e Cycle ount in Stu unt Incl H in the stu	dy:	58,800 8,100
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	8,100 Pe MPACT AILS Explain if there is	rsonnel Non Pe \$0 \$  Yes s a change in the yes	Amount Stu  ar and/or cost:	nt in Life dy Amo Amo Year	\$0 e Cycle ount in Stu unt Incl H in the stu	dy:	58,800 8,100
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	8,100 Pe MPACT AILS Explain if there is	rsonnel Non Pe \$0 \$  Yes s a change in the yes	Amount Stu  ar and/or cost:	nt in Life dy Amo Amo Year	\$0 e Cycle ount in Stu unt Incl H in the stu	dy:	58,800 8,100
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	8,100 Pe MPACT AILS Explain if there is	rsonnel Non Pe \$0 \$  Yes s a change in the yes	Amount Stu  ar and/or cost:	nt in Life dy Amo Amo Year	\$0 e Cycle ount in Stu unt Incl H in the stu	dy:	58,800 8,100
OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	8,100 Pe MPACT AILS Explain if there is	rsonnel Non Pe \$0 \$  Yes s a change in the yes	Amount Stu  ar and/or cost:	nt in Life dy Amo Amo Year	\$0 e Cycle ount in Stu unt Incl H in the stu	dy:	58,800 8,100



Page 601 **CF PSO** 

ARKHAM	2020 PROJECT FUNDING REQUEST FORM	Number:	20129	
ect Name: <b>Markhan</b>	In Village C.C. Ceiling Tile Replacement	Project Cost:	\$13,100	

Proje Repair/Replace Commission: Community & Fire Services Pre Approval: Useful Life: 10 Department: Recreation Services Category: Minor Project Mgr: Bob Bell Cost Validation: Third party estimate CW 

1 
2 
3 
4 Ward(s): Requirement Validation: Condition assessment 5 ✓ 6 □ 7 □ 8 □

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

This project is to replace the existing ceiling tiles located in the boardroom and the complete upper second floor in Markham Village C.C. Ceiling tiles are used to conceal mechanical and sprinkler system making it ashetically pleasing. The ceiling tiles are located in the board room and the complete second floor ceiling of the facility.

Safe & Sustainable Community **BUILDING MARKHAM'S FUTURE TOGETHER:** 

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	12,900	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	12,900	0
HST Impact:	227	0
Total Project Cost:	13,100	0

### **NOTES**

The existing ceiling tiles were installed in 1995. A condition assessment of the space indicates replacement is warranted. There is 4,365sqft x \$3.00 sqft =\$13,095, cost includes labour for installation and disposal of the old units. The amount requested is consistent with recent quote plus inflation.

SOURCE(S) OF FUNDING (\$	<u></u>		Compon	ents			E4
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	13,100	0	0	0	0	0	0
TOTAL FUNDING	13,100				=	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>			Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	130,600
				Amount Incl HST	13,100
				Year in the study	2020
DCA and/or Life Cycle: Explain if there is a cha	ange in the year a	nd/or cost:			
Life Cycle Includes: Ceiling Tile \$13.1k, Showe			l.8k (reduced fro	om \$77.5k)	



Page 603 **3** 488

<b>M</b> ARKHAM	2020 PKOJ	ECI FUNDI	ING REQUEST F	OKM	Number:	20	0130	
_	V2U C C M	Dl		Proj	ect Cost:	<b>\$14</b> ,	,800	
Project Name: Markhar	m village C.C. M	arquee Kepiacei	ment		Repair	r/Replac	e	
Commission: Communit	y & Fire Services			Useful Li	<del></del>		proval:	
Department: Recreation	Services		Categor	y: Minor	15	110 / ip	provar.	
Project Mgr: Bob Bell			_					
Ward(s): $CW \square 1$	2 3 4				: Third party estimate : Condition assessment			
5 💌	<b>2</b> 6□ 7□ 8□		Requirement vandatio	ii. Colluit	ion assessmen	IL		
DETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):						
This project is to replace or erves the public for advertinessaging.  BUILDING MARKHAM	ising of City function	ns, programing, and						
PROJECT COSTS (\$)	2020	Future Phases	NOTES					
Cost/Quote:	14,500	0	The existing marquee					
_			A condition assessmen warranted. The Marque					
Internal Charges: External Consulting:	0	0	replacement parts avai	lable. The a	amount reque			
_			with the recent quote p	lus inflatio	n.			
Sub Total: HST Impact:	<u>14,500</u> 255	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$						
Total Project Cost:	14,800							
	14,000							
OURCE(S) OF FUNDIN	<u>G (\$)</u>		Components		-			
<b>Sunding Type</b>	<u>Budget</u>				<u>T(</u>	<u>OTAL</u>	<u>Future</u> <u>Phases</u>	
perating Funded Life Cycle	14,800	0	0 (	)	0	0	0	
TOTAL FUNDING	14,800					0	0	
TOTAL PONDING								
OPERATING BUDGET	IMPACT Pei	rsonnel Non Pe	ersonnel Revenues	Expen	ditures/(Rev	enues)		
OTERATING BUDGET	IWITACI	\$0	\$0 \$0		\$0			
OCA/LIFE CYCLE DETA	AILS							
<u>DCA</u>			Amount		<u>Life Cycle</u>			
Name		Ye	ar Amount Study	A	Amount in Stu	dy:	130,600	
					mount Incl H	' =	14,800	
					ear in the stu		2020	
DCA and/or Life Cycle	a. Evnlain if there is	a change in the ve	ar and/or cost:	1	Tai in the ste		2020	
Den and of Life Cycle	c. Expiani ii mete is	a change in the year	ar ana/or cost.					

Life Cycle Includes: Ceiling Tile \$13.1k, Shower Tiles \$39.9k, Marquee \$14.8k (reduced from \$77.5k)



Page 605 **3 783**Number: 20131

Duois at Names N. 11		mu n i	4		Project C	ost: \$	36,300
Project Name: Markhan		lower Tiles Kepl	acement			Repair/Rep	lace
Commission: Community	& Fire Services			Ī	Jseful Life:		Approval:
Department: Recreation	Services			Category:		25 110	approvar.
Project Mgr: Bob Bell			Cont			mda	
Ward(s): $CW \square 1 \square$	2 3 4 4		Cost Validation: Recent awards  Requirement Validation: Condition assessment				
5 🗸	6 7 8		Requirement	v anuation.	Condition a	ssessment	
DETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):					
This project is to replace the	existing wall and o	ceramic floor tiles in	n the arena char	ngeroom sho	wer area at M	Iarkham Villa	ge C.C.
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Safe &	Sustainable Com	munity			
	4040	T / D	NOTES				
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	The existing			ed in 1995. A	
Cost/Quote:	35,700	0				is warrented.	
Internal Charges:	0	0					sqft x \$27.30 = I disposal of th
External Consulting:	0	0	old units. The	e amount rec		sistent with th	
Sub Total:	35,700	0	award plus in	flation.			
HST Impact:	628	0					
Total Project Cost:	36,300	0					
SOURCE(S) OF FUNDING	G (\$)		Compo	nents			
Funding Type	<u>Budget</u>					TOTAL	Future Phases
Operating Funded Life Cycle	36,300	0	0	0	(	) 0	0
	·	· ·	v	v	`		
TOTAL FUNDING	36,300						0
	Per	rsonnel Non Pe	rsonnel Re	evenues	Expenditu	res/(Revenue	s)
OPERATING BUDGET I	MPACT		0	\$0	<b>F</b>	\$0	-,
DCA/LIFE CYCLE DETA	AILS			T *		**	
<u>DCA</u>				Amount in	Life	Cycle	
Name		Yea		Study		nt in Study:	130,600
						•	
						nt Incl HST	36,300
					Year	in the study	2020
DCA and/or Life Cycle	: Explain if there is	a change in the year	ar and/or cost:				
Life Cycle Includes: Cei	iling Tile \$13.1k, S	hower Tiles \$39.9k	, Marquee \$14.	8k (reduced	from \$77.5k	)	



Page 607 **Q** 

2020 PROJECT FUNDING REQUEST FORM **Number:** 20132 Project Cost \$202 500

B 1 - 37		1 Toject Ce	JSt.	<b>\$203,500</b>
Project Name: Milliken Mills C.C. Arena Boards and Fr	ame Replacement		Repai	ir/Replace
Commission: Community & Fire Services  Department: Recreation Services  Project Mgr: Ryan Hanna  Ward(s): CW □ 1 □ 2 □ 3 □ 4 □  5 □ 6 □ 7 □ 8 ✔	Useful Life: 20 Pre Appr Category: Minor Cost Validation: Third party estimate Requirement Validation: Condition assessment			
DETAILED DESCRIPTION (SCOPE OF PROJECT):				
This project is to replace the rink boards and frames in the Arena environment for arena users.	at Milliken Mills C.C. This re	placement su	pports	providing a safe

Safe & Sustainable Community **BUILDING MARKHAM'S FUTURE TOGETHER:** 

<u>2020</u>	<b>Future Phases</b>
200,000	0
0	0
0	0
200,000	0
3,520	0
203,500	0
	200,000 0 0 200,000 3,520

### **NOTES**

Existing rink boards were installed in 1990. A condition assessment of the system indicates replacement is warranted. The amount requested is consistent with the 2019 Life Cycle Reserve Study update.

SOURCE(S) OF FUNDING (\$)			Compon	ents			E4
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	203,500	0	0	0	0	0	0
TOTAL FUNDING	203,500				=	0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$0	\$0	\$0

### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>			Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study: 1,483,700	
				Amount Incl HST 203,500	]
				Year in the study 2020	,

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

Life Cycle includes: Scoreboard \$15.4k, Floor Machine \$22.5k, Heat Exchanger \$14.8k, Bleacher Heaters \$24.4k, Arena Foundation \$901.9k, Arena Board \$223.9k, Arena Paint \$8k, Furnace \$103.8k, Bleachers Seating \$29.2k, Flooring \$119.7k, Mixing Values \$4k (deferred), Filter Pump \$3k (deferred), Life Safety Monitor \$5k (deferred), Kitchen Equipment \$8k (deferred)



Page 609 **3** 48 **7** 

D :			<b>.</b>	Project Cost:	\$14,	800
Project Name: Milliken I	Mills C.C. Arens	a Heat Exchange	r Replacement	Rej	pair/Replace	e
Commission: Community	& Fire Services			Useful Life: 15		proval:
Department: Recreation	Services		Category		110 /10	provar. —
Project Mgr: Ryan Hann	a					
Ward(s): $CW \square 1 \square$	2 🗆 3 🗆 4 🗆		Requirement Validation:	: Third party estim		
5 🗆	6□ 7□ 8✔		Requirement vandation.	Collution assessi	<u> </u>	
This project is to replace the transfer of heat between freeze faster.  BUILDING MARKHAM'	heat exchanger for refrigerants, and gr	r the refrigeration s reatly increases the				
			7			
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	NOTES The existing unit was ins	stalled in 2000. A co	ondition ass	sessment of
Cost/Quote:	14,500	0	the unit indicates replace	ement is warranted.	The amoun	t requested
Internal Charges:	0	0	is consistent with the 20	19 Life Cycle Reser	ve Study uj	odate.
External Consulting:	0	0				
Sub Total:	14,500	0				
HST Impact:	255	0				
Total Project Cost:	14,800	0				
SOURCE(S) OF FUNDING	G (\$)		Components			<u>Future</u>
Funding Type	<u>Budget</u>				TOTAL	<u>Phases</u>
Operating Funded Life Cycle	14,800	0	0 0	0	0	0
TOTAL FUNDING	14,800			_	0	0
OPERATING BUDGET I	MPA CT Pe	rsonnel Non Pe	rsonnel Revenues	Expenditures/(F	Revenues)	
OPERATING BUDGET I	WIFACI	\$0 \$	0 \$0	\$0		
DCA/LIFE CYCLE DETA	ALS					
<u>DCA</u>		<b>T</b> 7 -	Amount in	Life Cycle	7	
Name		Yes	ar Amount Study	— Amount in	Study: 1	,483,700
				Amount Inc	1 HST	14,800
				Year in the	study	2020
DCA and/or Life Cycle	· Explain if there is	s a change in the ve	ar and/or cost			
Life Cycle includes: Sco Foundation \$901.9k, Ar	oreboard \$15.4k, F ena Board \$223.9k	loor Machine \$22.5 x, Arena Paint \$8k,	k, Heat Exchanger \$14.8k, Furnace \$103.8k, Bleacher & Safety Monitor \$5k (defe	s Seating \$29.2k, F	Flooring \$11	19.7k,



Page 611 **3 49 Number: 20134** 

Droingt Name: Mallan.	Malla C. C. A	. II4 Dl	4		Project Cos	st: \$24,	,400
Project Name: Milliken I	VIIIS C.C. Arena	a Heater Keplace	ement		J	Repair/Replac	e
Commission: Community				Us	seful Life: 1	2 Pre Ap	proval:
Department: Recreation				Category:	Minor	1	1
Project Mgr: Ryan Hanna			Cos	st Validation:		 timate	
	2			t Validation: (			
	6□ 7□ 8✔		1	_			
This project is to replace the sitting on the bleachers. By pure customer service level we are BUILDING MARKHAM!	existing bleacher horoviding heating to e providing.	neaters in the Arena to the space, we are		timal environm			
PD O VECTE GO GEG (A)			NOTES				
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	This project	consists of rep			
Cost/Quote:	24,000	0		over the spectate dition assessment			
Internal Charges:	0	0		The amount req			
External Consulting:	0	0		•			-
Sub Total:	24,000	0					
HST Impact:	422	0					
Total Project Cost:	24,400	0					
SOURCE(S) OF FUNDING	<del>3 (\$)</del>		Comp	onents			E4
Funding Type	<b>Budget</b>					<b>TOTAL</b>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	24,400	0	0	0	0	0	0
TOTAL FUNDING	24,400				- :	0	
OPERATING BUDGET I	MPACT Per	rsonnel Non Pe		Sevenues \$0	Expenditures \$0	·	
DCA/LIFE CYCLE DETA	ILS	•		<u> </u>			
<u>DCA</u>				Amount in	Life Cy	<u>'cle</u>	
Name		Yea	ar Amount	Study	- Amount	in Study: 1	1,483,700
						Incl HST	24,400
						the study	2020
DCA and/antifacturing	. E1-: :6 4b :-				rear III	the study	2020
DCA and/or Life Cycle:	1			¢1401- D1		- ¢24 41- A	
Life Cycle includes: Sco Foundation \$901.9k, Ard Mixing Values \$4k (defe	ena Board \$223.9k	, Arena Paint \$8k,	Furnace \$103.	8k, Bleachers S	Seating \$29.2k	k, Flooring \$1	19.7k,



Page 613 **328** 

2020 PROJECT FUNDING REQUEST FORM 20135 **Number:** 

Day's of Manager B 50000		D 1D				Project (	Cost:	\$859	,900
Project Name: Milliken I	Wills C.C. Arena	a Pad Ke	placeme	nt			Repa	ir/Replac	e
Commission: Community	& Fire Services				Ţ	Jseful Life:	30	Pre An	proval:
Department: Recreation	Services				Category:		50	110 / ip	provur.
Project Mgr: Ryan Hann	a				• •				
Ward(s): $CW \square 1 \square$	2 3 4 4				Cost Validation:				
5 🗆	6 □ 7 □ 8 🗸			Requiren	nent Validation:	Condition a	issessme	ent	
ETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT	·):						
This project is to replace the nust be distributed to the ne f supply and return headers eplacement includes the corBUILDING MARKHAM'	twork of pipe local , which are normal acrete pad, the head	ted within ly located der return	the refrige within an and supply	erated cold open trency piping, the	floor, typically on the covered by eith	concrete. The her wood pla	is is acc inks or s	omplishe teel. Thi	d via a set
				1					
PROJECT COSTS (\$)	<u>2020</u>	<b>Future</b>	Phases	NOTES		. 1			1. 11. 1002
Cost/Quote:	825,000		0		arena pad and he ginal. A condition				
Internal Charges:	0		0	trench sy	stem indicates re	eplacement is	s warran	ted. The	amount
External Consulting:	20,000		0	_	l is consistent wi	th the 2019	Life Cyc	ele Reserv	ve Study
Sub Total:	845,000		0	update.					
HST Impact:	14,872		0						
Total Project Cost:	859,900								
=	037,700		0						
OURCE(S) OF FUNDING	<del>3 (\$)</del>			Coi	nponents				Entuno
unding Type	Budget						I	OTAL	<u>Future</u> <u>Phases</u>
perating Funded Life Cycle	859,900		0	0	0	(	0	0	(
TOTAL FUNDING	859,900							0	
NDED ATING DUDGET I	MDA CT Pe	rsonnel	Non Per	rsonnel	Revenues	Expenditu	res/(Re	venues)	
OPERATING BUDGET I	WIFACI	\$0	\$0	0	\$0		\$0		
CA/LIFE CYCLE DETA	ILS								
<u>DCA</u>					Amount in	<u>Life</u>	Cycle		
Name			Yea	ır Amou	nt Study	— Amoi	unt in St	udv: 1	,483,700
							int Incl		859,900
						Year	in the s	tudy	2020
DCA and/or Life Cycle	: Explain if there is	s a change	in the yea	r and/or co	st:				
Life Cycle includes: Sco Foundation \$901.9k, Ar- Mixing Values \$4k (defe	ena Board \$223.9k	, Arena F	Paint \$8k, l	Furnace \$1	03.8k, Bleachers	Seating \$29	2.2k, Flo	oring \$1	19.7k,

Project	Milliken Mills CC Arena Pad Replacement
2020 Capital Request	\$859,000
<b>Funding Source</b>	Operating Life Cycle
Description of Program	This project is to replace the existing arena pad and header trench system in the Arena at Milliken Mill CC. The Secondary refrigerant must be distributed to the network of pipe located within the refrigerated cold floor, typically concrete. This is accomplished via a set of supply and return headers, which are normally located within an open trench covered by either wood planks or steel. This replacement includes the concrete pad, the header return and supply piping, the header trench and the underfloor heating.
Project Rationale	Existing arena pad and header piping system was installed in 1982 and is original. A condition assessment of the pad and the header trench system indicates replacement is warranted. The amount requested is consistent with the 2019 Life Cycle Reserve Study Update.
Legislative Requirement	N/A
History	Arena pad is original to Milliken Mills C.C. The arena was first developed on site (1982) and then in 1989, the community centre and library was added onto the arena. The arena pad has met its expected functional capacity and requires replacement. The Milliken Mills arena serves as a space for local sport organizations delivering ice related activities. Furthermore, in the summer months, when ice is removed, the space serves as a ball hockey arena and a summer camp site for users and residents. In 2018, Milliken Mills C.C. had over 2.16M visitors.
<b>Future Phases</b>	N/A
Total Project Cost (incl. all phases)	\$859,000
Related Projects	Arena Boards and Frame Replacement – replacing the arena pad is timed with the replacement of the arena boards and frames. The existing boards and frames have also met its expected use and are removed prior to the pad replacement. Once complete, the replacement of the existing boards and frames will be completed.
Related Maps	N/A
Alignment to the Strategic Plan	Safe & Sustainable Community – This replacement project is to replace new piping used to move refrigerant to maintain and make ice for the arena during the ice season. Completion of this project enables Milliken Mills C.C. to continue in delivering enhanced programming to residents in a safe and sustainable manner.



Page 617**3225**Number: 20136

**Project Cost:** \$15,400 Project Name: Milliken Mills C.C. Arena Scoreboard Replacement Repair/Replace Commission: Community & Fire Services Pre Approval: Useful Life: 12 Department: Recreation Services Category: Minor Project Mgr: Cost Validation: Recent awards  $CW \square 1 \square 2 \square 3 \square 4 \square$ Ward(s): Requirement Validation: Condition assessment 5 □ 6 □ 7 □ 8 ✔

#### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

This project is to replace the existing arena scoreboard and shotclock in the Arena at Milliken Mills CC. Parts are no longer available for the existing controller. Included in the replacement are labour, removal of old clock, supply and install of new clock, safety screen, shot clock and two controllers (one main, one back up). This project supports community programming and sport by providing a means of tracking score and time for community groups.

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	15,100	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	15,100	0
HST Impact:	266	0
Total Project Cost:	15,400	0

### **NOTES**

The arena score clock was installed in 2007. The unit has been experiencing problems and a condition assessment of the unit indicates replacement is warranted. The amount requested is consistent with recent staff award plus inflation

SOURCE(S) OF FUNDING (\$)	!		Compone	ents			E4
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	15,400	0	0	0	0	0	0
TOTAL FUNDING	15,400				=	0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OTERATING BEDGET HAT ITEL	\$0	\$0	\$0	\$0	

#### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>			Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	- Amount in Study:	1,483,700
				Amount Incl HST	15,400
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

Life Cycle includes: Scoreboard \$15.4k, Floor Machine \$22.5k, Heat Exchanger \$14.8k, Bleacher Heaters \$24.4k, Arena Foundation \$901.9k, Arena Board \$223.9k, Arena Paint \$8k, Furnace \$103.8k, Bleachers Seating \$29.2k, Flooring \$119.7k, Mixing Values \$4k (deferred), Filter Pump \$3k (deferred), Life Safety Monitor \$5k (deferred), Kitchen Equipment \$8k (deferred)



Number:	20137

Project Name: <b>Milliken</b> I	Mills C.C. Arer	na Snectator S	Seating	Renlacem	ent	Project (	Cost:	\$29,	200
-		in opeciator o		- Cpiacell			Repai	r/Replace	e
Commission: Community			_		Ţ	Jseful Life:	15	Pre App	oroval:
Department: Recreation			_		Category:	Minor			
Project Mgr: Ryan Hann	a		_	Cos	t Validation:		ectimate	<u> </u>	
Ward(s): $CW \square 1 \square$	2 3 4 4		D		Validation:				
5 🗆	6 □ 7 □ 8 🗹		IN	equiremen	vanuation.	Condition a	1886881116		
ETAILED DESCRIPTIO	ON (SCOPE OF	PROJECT):							
nis project is to replace the r patrons to sit and watch a stomer service by providing UILDING MARKHAM'	a number of sporting a comfortable s	s, activities and papers and papers for patrons	program s		yed on the ice				
ROJECT COSTS (\$)	2020	Future Phas	200	NOTES					
Cost/Quote:	28,692	1 4441 0 1 144	_   1		bleachers we of the units in				
Internal Charges:	0	(	91		ested is consi				
External Consulting:	0	(	, II	-			•		-
Sub Total:			-						
=	28,692 505		-						
HST Impact:  Total Project Cost:			- 11						
= 10tai 110ject Cost.	29,200	0	<u> </u>						
OURCE(S) OF FUNDING	<u>G (\$)</u>			Compo	onents				<u>Future</u>
anding Type	Budget	į					<u>T</u>	<u>OTAL</u>	<u>Phases</u>
erating Funded Life Cycle	29,200	0		0	0	(	)	0	(
FOTAL FUNDING	29,200							0	
	MDA CIT. P	ersonnel No	n Perso	nnel R	evenues	Expenditu	res/(Rev	renues)	
PERATING BUDGET I	WIPACI	\$0	\$0		\$0		\$0		
CA/LIFE CYCLE DETA	AILS								
<u>DCA</u>			<b>*</b> 7		Amount in	<u>Life</u>	<u>Cycle</u>		
Name			Year	Amount	Study	– Amou	ınt in Stı	ıdy: 1	,483,700
						Amou	nt Incl F	_	29,200
							in the st		2020
DOA 1/ L'G O 1	E 1: :6:1			1/		1 Cai	iii tiic st	udy	2020
DCA and/or Life Cycle	•				<b></b>	\1 1 TT		41 .	
Life Cycle includes: Sco Foundation \$901.9k, Ar Mixing Values \$4k (defe	ena Board \$223.9	k, Arena Paint	\$8k, Fur	nace \$103.	8k, Bleachers	Seating \$29	.2k, Flo	oring \$11	9.7k,



Page 621 **329** 

T I A M M M M M M				1,	umber.		
				Project	Cost:	\$95,100	
Project Name: Milliken N	Aills C.C. Furna	ce Replacement			Repair/F	Replace	
Commission: Community	& Fire Services			Useful Life:		re Approva	al. [
Department: Recreation S	Services		Categor	ry: Minor	15 1	Te Approve	ai. —
Project Mgr: Ryan Hanna	1		_	on: External po	er review		
Ward(s): $CW \square 1 \square$	2 🗆 3 🗆 4 🗆		Requirement Validation				
5 🗆	6□ 7□ 8✔		requirement varidation	m. Condition	assessment		
DETAILED DESCRIPTIO		· · · · · · · · · · · · · · · · · · ·					
This project is to replace the arena lobby.	furnace in the Are	na at the Milliken N	Aills C.C. The unit is use	d to heat the ar	ena dressing	g rooms and	d the
BUILDING MARKHAM'S	S FUTURE TOGI	ETHER: Safe &	Sustainable Community				
PROJECT COSTS (\$)	2020	Future Phases	NOTES	11-4: 2000 A			a.f. 41a a
Cost/Quote:	85,000	0	Existing unit was instaunit indicates replacen				
Internal Charges:	0	0	consistent with the 201	9 Life Cycle R	eserve Stud	ly update.	
External Consulting:	8,500	0					
Sub Total:	93,500	0					
HST Impact:	1,646	0					
Total Project Cost:	95,100	0					
OURCE(S) OF FUNDING	<del>5 (\$)</del>		Components				
<b>Sunding Type</b>	Budget				TOT		<u>iture</u> hases
Operating Funded Life Cycle	95,100	0	0	)	0	0	0
TOTAL FUNDING	95,100					0	0
OPERATING BUDGET IN	MPACT Per	sonnel Non Pe	rsonnel Revenues	Expenditu	res/(Reven	nues)	
		\$0 \$	0 \$0		\$0		
DCA/LIFE CYCLE DETA	<u>ILS</u>						
<u>DCA</u> Name		Yea	Amount ar Amount Study		<u>Cycle</u>		
Name			i imount study	— Amo	unt in Study	7: 1,483	,700
				Amor	ant Incl HS	Γ 95	,100
				Year	in the stud	y	2020
DCA and/or Life Cycle:	Explain if there is	a change in the year	ar and/or cost:				
Life Cycle includes: Scor Foundation \$901.9k, Are Mixing Values \$4k (defe	ena Board \$223.9k	Arena Paint \$8k,	Furnace \$103.8k, Bleach	ers Seating \$29	9.2k, Floori	ng \$119.7k	



Page 623 **3 3** 8

**Number:** 20140

	Mills C C Pork	ng Lot Light Do	nlacoment		Project Cost	\$142	,500
Project Name: Milliken N		ing Lot Light Ke	piacement		Re	epair/Replac	e
Commission: Community				Use	ful Life: 20	Pre Ap	proval: $\square$
Department: Recreation		<u> </u>	(	Category: M	linor	-	-
Project Mgr: Ryan Hanna					xternal peer re	view	
	2 🗆 3 🗆 4 🗆		Requirement Va				
5 🗌	6□ 7□ 8✔		Troquito III				
This project is to replace the providing adequate light in the management.  BUILDING MARKHAM'S	existing parking lo he parking lot. Thi	ot lights at Milliker s replacement is pa		arking lot rep			
		•	NOTEG				
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	NOTES Existing arena p	parking lot lig	hts were insta	lled in 1989	A condition
Cost/Quote:	140,000	0	assessment of th	ne lights indic	cates replacem	ent is warra	nted. The
Internal Charges:	0	0	amount requeste	ed is consiste	nt with the 20	19 Life Cycl	e Reserve
External Consulting:	0	0	Study update.				
Sub Total:	140,000	0					
HST Impact:	2,464	0					
Total Project Cost:	142,500	0					
SOURCE(S) OF FUNDING	<u> </u>		Compone	nts			E-4
Funding Type	<b>Budget</b>					<b>TOTAL</b>	<u>Future</u> <u>Phases</u>
				0	0	0	0
Operating Funded Life Cycle	142,500	0	0	0	U	U	
Operating Funded Life Cycle TOTAL FUNDING	142,500 142,500	0	0	0	- =	0	0
	142,500				xpenditures/(	0	0
	142,500	rsonnel Non Po		enues E	=	0	0
TOTAL FUNDING  OPERATING BUDGET IN		rsonnel Non Po	ersonnel Reve	enues E	xpenditures/(	0	0
TOTAL FUNDING  OPERATING BUDGET IN		rsonnel Non Po	ersonnel Reve \$0 \$	enues E	xpenditures/(	0 Revenues)	0
TOTAL FUNDING  OPERATING BUDGET IN  DCA/LIFE CYCLE DETA		rsonnel Non Po	ersonnel Reve \$0 \$	enues E	xpenditures/( \$0  Life Cyc	Revenues)	
TOTAL FUNDING  OPERATING BUDGET IN  DCA/LIFE CYCLE DETA  DCA		rsonnel Non Po	ersonnel Reve \$0 \$	enues E	xpenditures/( \$0  Life Cyc  Amount in	Revenues)	919,300
TOTAL FUNDING  OPERATING BUDGET IN  DCA/LIFE CYCLE DETA  DCA		rsonnel Non Po	ersonnel Reve \$0 \$	enues E	xpenditures/( \$0  Life Cyc  Amount in	Revenues)	919,300 142,500
TOTAL FUNDING  OPERATING BUDGET IN  DCA/LIFE CYCLE DETA  DCA	142,500  MPACT  Pe	rsonnel Non Po \$0 S	ersonnel Reve \$0 \$  An ear Amount	enues E	xpenditures/( \$0  Life Cyc  Amount in	Revenues)	919,300



Page 625 **3 3 3** Number: **20141** 

Project Name: Williken P	MULC D	D D 1		Project (	Cost: \$3	34,100
-		ne Door Replace	ement		Repair/Rep	lace
Commission: Community	& Fire Services		Ţ	Useful Life:	20 Pre	Approval:
Department: Recreation			Category:			
Project Mgr: Ryan Hann	a		Cost Validation:		actimata	
Ward(s): $CW \square 1 \square$	2 3 4 4		Requirement Validation:			
5 🗆	6 □ 7 □ 8 🗹		Requirement vandation.	Collultion a	issessificit	
ETAILED DESCRIPTIO	ON (SCOPE OF P	ROJECT):				
linor Soccer Club as well a	s the City of Markl onvert existing space	nam uses the Soccesces to be more acce	le sliding doors at Milliken r Dome for soccer programs ssible by replacing the door Sustainable Community	s. This replac	ement will sup	port the City
ROJECT COSTS (\$)	2020	Future Phases	NOTES			
Cost/Quote:	33,500	()	The existing entrance doc			
		•	to the building. A conditi replacement is warranted			
Internal Charges: External Consulting:	0	0	the 2019 Life Cycle Rese			
_						
Sub Total:	33,500	0				
HST Impact:	590	0				
Total Project Cost:	34,100	0				
OURCE(S) OF FUNDING	G (\$)		Components			
anding Type	<u>Budget</u>				TOTAL	Future L Phases
erating Funded Life Cycle	34,100	0	0 0	(	0 0	)
crating I unded Ene Cycle						<u> </u>
· ·	34,100					<del>-</del> -
TOTAL FUNDING	Pa	rsonnel Non Pe	rsonnel Revenues	Expenditu		s)
TOTAL FUNDING	Pa			Expenditu	res/(Revenue	s)
FOTAL FUNDING PERATING BUDGET I	MPACT Per			Expenditu		s)
FOTAL FUNDING PERATING BUDGET I	MPACT Per				res/(Revenue	s)
TOTAL FUNDING  PERATING BUDGET II  CA/LIFE CYCLE DETA	MPACT Per		0 \$0  Amount in	<u>Life</u>	res/(Revenue \$0 Cycle	
TOTAL FUNDING  PERATING BUDGET II  CA/LIFE CYCLE DETA  DCA	MPACT Per	\$0 \$	0 \$0  Amount in	Life — Amou	res/(Revenue \$0 Cycle unt in Study:	34,200
PERATING BUDGET II  CA/LIFE CYCLE DETA  DCA	MPACT Per	\$0 \$	0 \$0  Amount in	Life — Amou	res/(Revenue \$0  Cycle  Int in Study: Int Incl HST	34,200 34,100
TOTAL FUNDING  PERATING BUDGET II  CA/LIFE CYCLE DETA  DCA	MPACT Per	\$0 \$	0 \$0  Amount in	Life — Amou	res/(Revenue \$0 Cycle unt in Study:	34,200
TOTAL FUNDING  PERATING BUDGET II  CA/LIFE CYCLE DETA  DCA	MPACT Per	\$0 \$ Yes	0 \$0  Amount in Study	Life — Amou	res/(Revenue \$0  Cycle  Int in Study: Int Incl HST	34,200 34,100
TOTAL FUNDING  PERATING BUDGET II  CA/LIFE CYCLE DETA  DCA  Name	MPACT  TLS  : Explain if there is	\$0 \$  Yes  a change in the yes	0 \$0  Amount in Study	Life — Amou	res/(Revenue \$0  Cycle  Int in Study: Int Incl HST	34,200 34,100
DCA and/or Life Cycle	MPACT  TLS  : Explain if there is	\$0 \$  Yes  a change in the yes	0 \$0  Amount in Study	Life — Amou	res/(Revenue \$0  Cycle  Int in Study: Int Incl HST	34,200 34,100
PERATING BUDGET II  CA/LIFE CYCLE DETA  DCA  Name  DCA and/or Life Cycle	MPACT  TLS  : Explain if there is	\$0 \$  Yes  a change in the yes	0 \$0  Amount in Study	Life — Amou	res/(Revenue \$0  Cycle  Int in Study: Int Incl HST	34,200 34,100
DCA and/or Life Cycle	MPACT  TLS  : Explain if there is	\$0 \$  Yes  a change in the yes	0 \$0  Amount in Study	Life — Amou	res/(Revenue \$0  Cycle  Int in Study: Int Incl HST	34,200 34,100



Page 627**335**Number: 20142

D ' (M 35 D						Project (	Cost:	<b>\$24</b> ,	600
Project Name: Morgan P	ool Equipment	Replaceme	ent				Repair	/Replace	e
Commission: Community	& Fire Services				Ţ	Jseful Life:	9	Pre An	oroval:
Department: Recreation	Services				Category:			110 11p	, , , , , , , , , , , , , , , , , , ,
Project Mgr: Bob Bell				C.					
Ward(s): $CW \square 1 \square$	2 3 4				st Validation:				
5 🗆	6 7 8		ŀ	kequiremen	t Validation:	Condition a	ssessmen	<u> </u>	
DETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):							
This project is to replace two Pool. Lifeguard chairs are an unblocked view of the water chair lift are required to meet	integral piece of and swimmers fro t AODA with the	egislative eq m an elevated enovation of	uipment ud position the buildi	sed in aqua to ensure s ing.	tics centres. I wimmer safet	ifeguard cha	irs offer l	ifeguard	ls an
BUILDING MARKHAM'S	S FUTURE TOG	ETHER:	Sare & Sus	stainable Co	mmunity				
PROJECT COSTS (\$)	2020	Future Ph	19666	NOTES			1: 2012		• .•
Cost/Quote:	24,200				g diving board airs were inst				
Internal Charges:	0		0	he units inc	licate replacer	nent is warra	nted. Thi	s projec	t is separate
External Consulting:	0				ase 2 construc to aquatics eq				
Sub Total:	24,200				to aquatics equested is consi				
HST Impact:	426		0	Study Upda				•	
Total Project Cost:	24,600	-	0						
=									
SOURCE(S) OF FUNDING	<u> </u>			Comp	onents				<b>Future</b>
Funding Type	<u>Budget</u>						<u>TO</u>	TAL	Phases
Operating Funded Life Cycle	24,600		0	0	0	C	)	0	0
TOTAL FUNDING	24,600							0	0
ODED ATING DUDGET I	APACT Pe	rsonnel N	Non Perso	onnel R	Revenues	Expenditu	res/(Reve	enues)	
OPERATING BUDGET IN	WIPACI	\$0	\$0		\$0		\$0		
DCA/LIFE CYCLE DETA	<u>ILS</u>								
<u>DCA</u>			<b>3</b> 7	<b>A 4</b>	Amount in	<u>Life</u>	Cycle		
Name			Year	Amount	Study	– Amou	nt in Stud	ly:	46,400
						Amou	nt Incl H	ST	24,600
							in the stu		2020
DCA and/or Life Cycle:	Evaloin if there is	s o ahanga in	tha waar a	nd/or oost:		1011			2020
	1		•		4.600 Eile	X7	D 00	11 000	
Life Cycle includes: Div	ing Board, Guard	Chairs, Adul	t Table, C	hair Lift \$2	4,600, Filter,	Vacuum and	Pump \$2	71,800.	



IYIAKKHAM			~	Number:	2014	43
Project Names M. D.	136 1 . 1	D 1		Project Cost:	\$21,80	)0
Project Name: Morgan P	ool Mechanical	Replacement		Repair	/Replace	
Commission: Community	& Fire Services			Useful Life: 15	Pre Appre	oval:
Department: Recreation S	Services		Category		Tie Appro	ovar. —
Project Mgr: Bob Bell				: Third party estimate		
Ward(s): $CW \square 1 \square$	2 □ 3 □ 4 ✔		Requirement Validation			
5 🗆	6 7 8		Requirement vandation	. Condition assessmen	ıt	
DETAILED DESCRIPTIO		· · · · · · · · · · · · · · · · · · ·				
This project is to replace (1) pacteria, replace (1) re-circulous at the Morgan Pool.  BUILDING MARKHAM'S	ılating pump that c	irculates the water				
PROJECT COSTS (\$)	2020	Future Phases	NOTES			
Cost/Quote:	21,400	0	The existing pool filter validespan is 20 years which			
Internal Charges:	0	0	pump was installed in 19	996 and has exceeded it	ts useful li	fe
External Consulting:	0	0	expectancy of 12 years.			
Sub Total:	21,400	0	indicates replacement is consistent with the 2019			
HST Impact:	377	0				
Total Project Cost:	21,800	0				
= SOURCE(S) OF FUNDING	; (\$)		Components			
Funding Type	Budget		Components	TO		<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	21,800	0	0 0	0	0	0
TOTAL FUNDING	21,800				0	0
TOTAL FUNDING					<u>U</u> =	
OPERATING BUDGET IN	MPACT Per	rsonnel Non Pe	ersonnel Revenues	Expenditures/(Revo	enues)	
	<u> </u>	\$0	\$0 \$0	\$0		
OCA/LIFE CYCLE DETA	ILS					
		<b>X</b> 7.	Amount in	<u>Life Cycle</u>		
DCA Nome						
Name		Ye	ar Amount Study	— Amount in Stud	dy:	46,400
		Ye	ar Amount Study	Amount in Stud	•	46,400 21,800
		Ye	ar Amount Study		ST	
	Explain if there is		· ·	Amount Incl H	ST	21,800



Page 631 7 20

MARKHAM	2020 PKOJ	ECTFUNDI	NG REQUI	ESTFORM	Number:	20	)144
Project Name: Mt. Joy	C C Law Emissiv	rity Coiling Donl	acoment	Pro	ject Cost:	\$37,	300
<u>~</u>		nty Cennig Kepi	acement		Repai	r/Replac	e
Commission: Communit				Useful I	Life: 15	Pre Ap	proval:
Department: Recreation	1 Services			Category: Minor	ſ		
Project Mgr: Bob Bell		-	Cost	Validation: Recer	nt awards		
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$ $5 \checkmark 6 \square 7 \square 8 \square$			Requirement '	Validation: Condi	tion assessme	nt	
5 <u>N</u> DETAILED DESCRIPTION		DOIECT).					
part of the refrigeration system the low emissivity ceiling research	eplacement will be r	equired.	Sustainable Com		to clisure for (	OntilluOl	15 SCI VICE,
PROJECT COSTS (\$)	2020	Future Phases	NOTES				
Cost/Quote:	36,659	0		ow emissivity ceiliessment of the ceili			
Internal Charges:	0	0	warranted. Th	e amount requested			
External Consulting:	0	0	award plus inf	lation.			
Sub Total:	36,659	0					
HST Impact:	645	0					
Total Project Cost:	37,300	0					
SOURCE(S) OF FUNDIN	<u>G (\$)</u>		Compor	nents			
Funding Type	Budget				<u>T</u> (	OTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	37,300	0	0	0	0	0	0
TOTAL FUNDING	37,300					0	
OPERATING BUDGET	IMPACT Per	rsonnel Non Pe	ersonnel Rev	venues Expe	nditures/(Rev	venues)	
J. D.	<u></u>	\$0.	60	0.2	0.2		

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$0	\$0	\$0

### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>	Amount in	Life Cycle	
Name	Year Amount Study	Amount in Study:	122,400
		Amount Incl HST	37,300
		Year in the study	2020
DCA and/or Life Cycle: Explain if there is	s a change in the year and/or cost:		

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

Lifec Cycle includes: Low Emissivity Ceiling \$41k (reduced from 64.1k), Overhead Doors \$11k, Security System \$30.9k, Painting \$16.4k (deferred)



Page 633 **3 28** 

Number:	20145
Number:	4U143

**Project Cost:** \$9.800 Project Name: Mt. Joy C.C. Overhead Doors Replacement Repair/Replace Commission: Community & Fire Services Pre Approval: Useful Life: 20 Department: Recreation Services Category: Minor Project Mgr: Bob Bell Cost Validation: Third party estimate Ward(s): Requirement Validation: Condition assessment **DETAILED DESCRIPTION (SCOPE OF PROJECT):** This project is to three (3) replace the overhead doors in the arena at Mount Joy C.C. The overhead doors are part of the building security and part of the building envelope to ensure an air tight seal of the building. Safe & Sustainable Community **BUILDING MARKHAM'S FUTURE TOGETHER:** NOTES **PROJECT COSTS (\$)** 2020 **Future Phases** The existing overhead doors were installed in 1987. A condition Cost/Quote: 9.643 0 assessment of the doors indicates replacement is warranted. The amount requested is consistent with the 2019 Life Cycle Reserve **Internal Charges:** 0 0 Study update. **External Consulting:** 0 0 Sub Total: 9,643 0 0 **HST Impact:** 170 **Total Project Cost:** 9,800 0 SOURCE(S) OF FUNDING (\$) **Components Future Funding Type** TOTAL **Phases Budget** Operating Funded Life Cycle 9,800 0 0 0 0 0 0 TOTAL FUNDING 9,800 0 0 Personnel Non Personnel Revenues Expenditures/(Revenues) **OPERATING BUDGET IMPACT** \$0 \$0 \$0 \$0 **DCA/LIFE CYCLE DETAILS DCA** Amount in **Life Cycle** Year Name **Amount** Study Amount in Study: 122,400 Amount Incl HST 9,800 Year in the study 2020 DCA and/or Life Cycle: Explain if there is a change in the year and/or cost: Lifecycle includes: Low Emissivity Ceiling \$41k (reduced from 64.1k), Overhead Doors \$11k, Security System \$30.9k, Painting \$16.4k (deferred)



Number:	20146

Duningt Names Old II					Project (	Cost:	\$22,400
Project Name: Old Union		ecnanical Re	epiacement			Repair/R	eplace
Commission: Community	& Fire Services			Ţ	Jseful Life:	15 P	re Approval:
Department: Recreation S			_	Category:			Tr
Project Mgr: Paul Singlet	ton		_	Cost Validation:		actimata	
Ward(s): $CW \square 1 \square$	2 □ 3 🗸 4 □		Doquiro	ment Validation:			
5 🗌	6□ 7□ 8□		Require	ment vandation.	Condition a	.550551110111	
ETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):					
his project is to replace two andition air temperatures to				at the Old Unionv	ville Library.	The mecha	nical units
monday unitemperatures to	provide a connect		0110 101 <b>0</b> 10 <b>0</b> 151				
UILDING MARKHAM'S	S FUTURE TOGI	ETHER: Sa	ife & Sustainable	e Community			
ROJECT COSTS (\$)	2020	Future Phas	ses NOTE		1.6		
Cost/Quote:	22,000	0		air conditioning tion assessment o			
Internal Charges:	0	0	warrant	ed. Included in th			
External Consulting:	0	0	furnaces	, labour and disp			
Sub Total:	22,000	0	_ \$8,000.	Furnace = \$6,000 The amount reque			
HST Impact:	387	0	_    '	rne umount reque	obce is consi	Stolle With I	ocent quote.
Total Project Cost:	22,400		-				
=	22,400	0					
OURCE(S) OF FUNDING	<u> </u>		Co	mponents			— Future
anding Type	<b>Budget</b>	<u>AC U</u>	<u>Jnit Fu</u>	mace <u>Lat</u>	<u>oour</u>	TOT	
erating Funded Life Cycle	22,400	8,000	12,000	2,000	(	22,0	00
TOTAL FUNDING	22,400					22,0	000
	Per Per	sonnel No	n Personnel	Revenues	Expenditu	res/(Reven	ues)
PERATING BUDGET IN	WPACI	\$0	\$0	\$0		\$0	
CA/LIFE CYCLE DETA	<u>ILS</u>						
<u>DCA</u>				Amount in	<u>Life</u>	Cycle	
Name			Year Amo	unt Study	— Amou	ınt in Study	: 71,400
						nt Incl HST	
						in the study	,
					1 eai	in the study	2020
DCA and/or Life Cycle:	-		-				
Life Cycle includes: Air	Conditioning and I	Furnace \$24.6k	(reduced from	ı \$42k), Vinyl Til	e \$22.4k, Pai	inting \$5.5k	x, Exhaust Fan
\$1.5k(deferred)							



2020 DDO IECT EUNDING DEOUEST EODN	7	<i>-</i>	JT,
2020 PROJECT FUNDING REQUEST FORM	Number:	20147	
n	maiaat Caat	ΦΦΟ 400	

Project Name: Old Union	nville I ihrary V	inyl Tilo Ro	nlaceme	ant		Project (	Cost:	\$20,	400
·	<del>-</del>	illyi The Ke	piaceine	=======================================			Repair	/Replace	e
Commission: Community					Ţ	Jseful Life:	18	Pre Ap	proval:
Department: Recreation	Services				Category:	Minor			
Project Mgr: Scott Hill			<del></del>	Cos	st Validation:		rds		
	2 □ 3 🗹 4 □		F		t Validation:			t	
5 🗆	6 7 8		_	1					
DETAILED DESCRIPTION  This project is to replace exi			outh roor	n at Old U	nionvilla Libr	ory Vinyl fl	ooring is	enocific	ally used at
old Unionville Library in no rogrammed.									
BUILDING MARKHAM'	S FUTURE TOG	ETHER:	Safe & Sus	tainable Co	nmunity				
PROJECT COSTS (\$)	2020	Future Pha	1666	NOTES					
Cost/Quote:	20,000		[1		e was last rep ates replacen				
Internal Charges:	0		o re	eplacement	are labour, d	isposal and v	inyl tile.	Vinyl ti	le costs
External Consulting:	0		a		ely \$12 per sq				9,800. Unit
Sub Total:	20,000	-	$\frac{}{}$	ost is consi	stent with rec	ent award pi	us inflatio	on.	
HST Impact:	352		$\frac{0}{0}$						
Total Project Cost:	20,400	-	0						
=									
OURCE(S) OF FUNDING	<u>G (\$)</u>			Comp	onents				<u>Future</u>
unding Type	<u>Budget</u>						<u>TC</u>	TAL	<u>Phases</u>
perating Funded Life Cycle	20,400		0	0	0	(	)	0	0
TOTAL FUNDING	20,400							0	0
	MDA CE Pe	rsonnel N	on Perso	nnel R	evenues	Expenditu	res/(Reve	enues)	
OPERATING BUDGET I	WIPACI	\$0	\$0		\$0		\$0		
CA/LIFE CYCLE DETA	AILS								
<u>DCA</u>					Amount in	<u>Life</u>	Cycle Cycle		
Name			Year	Amount	Study	– Amou	ınt in Stud	dy:	71,400
							nt Incl H	•	20,400
							in the stu		2020
DCA 1/ L'C. C1.	. F1.1- 164 1-	1	1			1 Cai	in the stu	.uy	2020
DCA and/or Life Cycle					N XV 1001	Φ22.41 D	• • • • •	51 E 1	
Life Cycle includes: Air \$1.5k(deferred)	Conditioning and	Furnace \$24.6	ok (reduce	ed from \$42	2k), Vinyl Til	e \$22.4k, Pa	inting \$5.	5k, Exh	aust Fan
ψ1.5κ(defelled)									



Page 639 <b>3247</b>
00440

Amount Incl HST Year in the study

ARKHAM Number: 20148 **Project Cost:** \$60,600 Project Name: Pan Am Centre Lighting Automation Repair/Replace Commission: Community & Fire Services Pre Approval: Useful Life: 15 Department: Recreation Services Category: Minor Project Mgr: Paul Giddings Cost Validation: External peer review CW □ 1 □ 2 □ 3 ✓ 4 □ Ward(s): Requirement Validation: Condition assessment 5 6 7 8 **DETAILED DESCRIPTION (SCOPE OF PROJECT):** This project is to install automated (BACnet) lighting retrofit at Pan Am Centre. Currently the lighting system does not give a full control over the lighting to the facility team. The operator is not able to modify the zone schedules individually. An updated and modified lighting system with proper level of access will allow switching off and proper control over the system by in-house staff. It will provide operators and cleaners to control the lights at the lighting control system during occupied hours and after occupancy. Safe & Sustainable Community **BUILDING MARKHAM'S FUTURE TOGETHER: NOTES PROJECT COSTS (\$)** 2020 **Future Phases** This project is to install a BACnet control system, which will create Cost/Ouote: 59,600 0 an integrated SMART lighting control systems for all physical lighting at Pan Am. In addition, the project will include an **Internal Charges:** 0 0 interface that will create remote accesse for all of Pan Am lighting **External Consulting:** 0 0 within the City of Markham's wide area network (WAN). This project will align the Corporate Energy Management System. At Sub Total: 59,600 0 this time, estimate savings are undetermined, however staff 0 **HST Impact:** 1,049 anticipate better controls of the system will show a reduction in **Total Project Cost:** 0 60,600 utilities. SOURCE(S) OF FUNDING (\$) **Components Future Funding Type** TOTAL **Phases Budget** 0 0 0 0 0 0 Other Internal 60,600 **TOTAL FUNDING** 60,600 0 0 **Expenditures/(Revenues)** Personnel Non Personnel Revenues OPERATING BUDGET IMPACT \$0 \$0 \$0 \$0 DCA/LIFE CYCLE DETAILS **DCA** Amount in Life Cycle Year **Amount** Study Name Amount in Study:

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 641 **329**Number: 20149

\$467,300

**Project Cost:** 

Project Name: Pan Am	Centre Vestibule	<u>,                                      </u>			New Asset/E	xpansion
Commission: Communit	y & Fire Services			Useful Life:		oproval:
Department: Recreation	Services		Catago		0 11071	oprovan. —
Project Mgr: Paul Giddi	ings / Janis Cookson	<u> </u>	_	ry: Minor		
Ward(s): $CW \square 1 \square$	2 □ 3 🗸 4 □			on: Internal pe		
5 🗆	□ 6□ 7□ 8□		Requirement Validation	on: Other(spec	ify in Notes)	
DETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):				
This project is to add an out existing Pan Am construction	on project.			Other Internal fu	nding will be fro	m the
BUILDING MARKHAM	'S FUTURE TOG	ETHER: Safe &	Sustainable Community			
PROJECT COSTS (\$)	2020	Future Phases	NOTES			
Cost/Quote:	459,200	0	The Pan Am lobby do months. The position			
Internal Charges:	0	0	vestibules allow an ex	tensive amount	of exchange of a	ir that
External Consulting:	0	0	overwhelms the existi			
Sub Total:	459,200	0	temperatures in the lowhich resulted in reco			
HST Impact:	8,082		recommendations had	minimal succes	ss. This has crea	ted an
Total Project Cost:	467,300	0	uncomfortable enviro	in the lobby area	ı <b>.</b>	
	407,300					
SOURCE(S) OF FUNDIN	<u>G (\$)</u>		Components		_	<u>Future</u>
Funding Type	<u>Budget</u>				TOTAL	Phases
Other Internal	467,300	0	0	0	0 0	0
TOTAL FUNDING	467,300				0	0
	Pe	rsonnel Non Po	ersonnel Revenues	Expenditu	res/(Revenues)	
OPERATING BUDGET 1	<u>IMPACT</u>		\$0 \$0	•	\$0	
DCA/LIFE CYCLE DETA	AILS	40	ΨΨ			
DCA			Amount	in Life	<u>Cycle</u>	
Name		Ye		7	_	
					unt in Study:	
					unt Incl HST	
				Year	in the study	
DCA and/or Life Cycle	e: Explain if there is	s a change in the ye	ar and/or cost:			
DCA and/or Life Cycle	e: Explain if there is	s a change in the ye	ar and/or cost:	i cai	in the study	



Page 643 **358**Number: 20150

		Project Co	ost:	\$28,000
Project Name: Pan Am Heat Exchanger Reconstruction			Repai	r/Replace
Commission: Community & Fire Services  Department: Recreation Services  Project Mgr: Paul Giddings	U Category:		15	Pre Approval:
Ward(s): $CW \square 1 \square 2 \square 3 \checkmark 4 \square$ $5 \square 6 \square 7 \square 8 \square$	Cost Validation:	Third party estimate  Condition assessment		
DETAILED DESCRIPTION (SCOPE OF PROJECT):				
This project is to correct the design of the heat exchanger at Pan A assessment called an "isotherm report" was conducted to assess excurrent piping configuration of the domestic hot water make-up pr wasted energy. The interpretation of the design intent of the domestic	tisting system functionality, veheat heat exchanger (HX-4)	which identifie was piped in	ed inefi a man	ficiencies. The ner that results in

BUILDING MARKHAM'S FUTURE TOGETHER:

low temperature hot water loop to preheat the domestic make up water.

Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	27,507	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	27,507	0
HST Impact:	484	0
Total Project Cost:	28,000	0

### **NOTES**

The existing heat exchanger was installed in 2014. E3: Annual savings \$24,392, 2020 savings \$12,196. Payback 1.2 years. The amount requested is consistent with the 2019 Life Cycle Reserve Study Update.

SOURCE(S) OF FUNDING (\$)			Compon	ents			E4
Funding Type	<b>Budget</b>	heat exchanger	DWH Piping			<b>TOTAL</b>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	28,000	3,500	24,000	0	0	27,500	0
TOTAL FUNDING	28,000				=	27,500	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
STERRITOR OF STERRITOR	\$0	-\$12,196	\$0	-\$12,196

### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>	Vaan	<b>A</b> 4	Amount in	Life Cycle	
Name	Year	Amount	Study	Amount in Study:	116,500
				Amount Incl HST	28,000
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

Life Cycle includes: Isotherm \$28k (reduced from 164.5k), Pool Equipment \$16.3k, Floor Machine \$61.2k, Lane Ropes \$15.6k (deferred)



Page 645 **353**Number: 20151

Duningt Name	D A D IE : AD I		Project C	Cost:	\$16,300
Commission: Department: Project Mgr:	Pan Am Pool Equipment Replacement  Community & Fire Services  Recreation Services  Paul Giddings  CW □ 1□ 2□ 3 ✓ 4□  5□ 6□ 7□ 8□	Category: Cost Validation Requirement Validation:	: Third party	6 estimat	ir/Replace Pre Approval:

#### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

This project is to replace the pool equipment at Pan Am. The replacement includes: one (1) shot clock, twenty (2) starter blocks, twenty (20) touch pads and one (1) sound system. The replacement of this equipment supports Pan Am Centre's ability to host international sporting events. In 2018, Pan Am hosted 49 aquatics events.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	16,000	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	16,000	0
HST Impact:	282	0
Total Project Cost:	16,300	0

#### NOTES

The existing pool equipment was installed in 2014. A condition assessment of the equipment indicates replacement is warranted. Sound system \$3,462, shot clock \$1,921, touch pads \$7,697, starting block \$3,220, total \$16,300. The amount requested is consistent with recent staff award plus inflation.

SOURCE(S) OF FUNDING (\$)		Components					
Funding Type	<b>Budget</b>	sound system	shot clock	touch pads	starting bl	lock TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	16,300	3,462	1,921	7,697	3,220	16,300	0
TOTAL FUNDING	16,300				=	16,300	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$0	\$0	\$0

### **DCA/LIFE CYCLE DETAILS**

DCA	Voor	A	Amount in	Life Cycle	
Name	Year	Amount	Study	Amount in Study:	116,500
				Amount Incl HST	16,300
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

Life Cycle includes: Isotherm \$28k (reduced from 164.5k), Pool Equipment \$16.3k, Floor Machine \$61.2k, Lane Ropes \$15.6k (deferred)



THE MANNEY AND I							,
D: W 5	4 770 D				Project Co	st: \$18	,400
Project Name: Recreation	on AED Program	Replacement				Repair/Replac	ce
Commission: Community	& Fire Services			Heat	ful Life:		proval:
Department: Recreation	Services			Category: Ai		5 FIE AL	provai. —
Project Mgr: Ryan Hann	a		Cost			atimata	
Ward(s): CW ✓ 1	2 🗆 3 🗆 4 🗆		Requirement V	Validation: The Validation: Co			
5 🗆	6 7 8		Requirement	andanon. Co	munuon ass	essment	
DETAILED DESCRIPTION							
The 2020 AED annual progreplace AED equipment city		replacement of e	ight (8) AED train	er kits and 12	AED traine	r pads. This pr	roject is to
BUILDING MARKHAM	S FUTURE TOG	ETHER:					
PROJECT COSTS (\$)	2020	Future Phases	NOTES There are curr	onthy 54 AED	unita in tha	City of Mould	om The
Cost/Quote:	18,060	0	AED units hav				
Internal Charges:	0	0	Centennial C.O				
External Consulting:	0	0	and 2018 at Apper unit (\$600				
Sub Total:	18,060	0	$($266 \times 24 = $$	66384). Price i	is consisten	t with recent st	aff award.
HST Impact:	318	0	The Life Cycle next update. *'				
Total Project Cost:	18,400	0	requested each		iai program	and funding w	viii de
OURCE(S) OF FUNDING	G (\$)		Compon	ents			Future
unding Type	Budget					TOTAL	Phases
perating Funded Life Cycle	18,400	0	0	0	0	0	0
TOTAL FUNDING	18,400					0	0
	NEA CE Per	rsonnel Non P	ersonnel Rev	renues Ex	xpenditure	s/(Revenues)	
OPERATING BUDGET I	MPACT	\$0	\$0	\$0	\$	0	
OCA/LIFE CYCLE DETA	AILS						
<u>DCA</u>				mount in	<u>Life C</u>	<u>ycle</u>	
Name		Yo	ear Amount	Study	Amount	in Study:	18,400
						Incl HST	18,400
						the study	10,100
		a abanga in the w	per and/or cost:		rear in	the study	
DCA and/or Life Cycle	· Evaloin if there is						
DCA and/or Life Cycle	-						
DCA and/or Life Cycle The amount requested n	-						
_	-						



Page 649**357** 

Number:	20153

D ' (M D )				Project (	Cost:	\$85,	500
Project Name: Recreation	n Aquatic Equip	oment Replacemo	ent		Repai	r/Replace	2
Commission: Community	& Fire Services			Useful Life:	5		oroval:
Department: Recreation	Services			: Annual	3	тте лр	provar. —
Project Mgr: Eric Ho			• .				
Ward(s): $CW \boxed{\bullet} 1$	2□ 3□ 4□		Cost Validation				
5 🗆	6□ 7□ 8□		Requirement Validation	: Condition a	ssessme	nt	
DETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):					
This annual replacement pro			nt (8) aquatics facilities (ir	door and outd	oor).		
BUILDING MARKHAM'	S FUTURE TOGI	ETHER: Engage	d, Diverse & Thriving City				
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	NOTES	1: 007.700			
Cost/Quote:	84,000	0	The 3 year average spen to support programs that				
Internal Charges:	0	0	Reserve Study will be ac				
External Consulting:	0	0	*This is an annual progr	am and fundin	g will b	e request	ed each year.
Sub Total: _ HST Impact:	84,000	0					
Total Project Cost:	1,478						
=	85,500	0					
	7 (\$)		<b>C</b> .				
SOURCE(S) OF FUNDING	<u> </u>		Components				T4
	Budget		Components		<u>T</u>	OTAL	<u>Future</u> <u>Phases</u>
Funding Type		0	0 0	(	· · · · · · · · · · · · · · · · · · ·	<b>OTAL</b> 0	
SOURCE(S) OF FUNDING  Funding Type  Operating Funded Life Cycle  TOTAL FUNDING	85,500	0		(	· · · · · · · · · · · · · · · · · · ·	0	Phases 0
Funding Type	<u>Budget</u>	0		(	· · · · · · · · · · · · · · · · · · ·		<u>Phases</u>
Funding Type Operating Funded Life Cycle TOTAL FUNDING	85,500 85,500		0 0		)	0	Phases 0
Funding Type Operating Funded Life Cycle	85,500 85,500	rsonnel Non Pe	0 0 rsonnel Revenues	Expenditu	res/(Rev	0	Phases 0
Funding Type Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET I	85,500  85,500  Per		0 0 rsonnel Revenues	Expenditu	)	0	Phases 0
Funding Type Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET II DCA/LIFE CYCLE DETA	85,500  85,500  Per	rsonnel Non Pe	o o  rsonnel Revenues  ) \$0	Expenditu	res/(Rev \$0	0	Phases 0
Funding Type Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET I	85,500  85,500  Per	rsonnel Non Pe	o 0  rsonnel Revenues  ) \$0  Amount in	Expenditur	res/(Rev \$0	0 0 venues)	Phases           0           0
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA	85,500  85,500  Per	rsonnel Non Pe \$0 \$	o 0  rsonnel Revenues ) \$0  Amount in	Expenditure  Life  Amou	res/(Rev \$0 Cycle nt in Stu	0 0 renues)	Phases  0 0 71,800
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA	85,500  85,500  Per	rsonnel Non Pe \$0 \$	o 0  rsonnel Revenues ) \$0  Amount in	Expenditure  Life  Amou	res/(Rev \$0	0 0 renues)	Phases           0           0
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA	85,500  85,500  Per	rsonnel Non Pe \$0 \$	o 0  rsonnel Revenues ) \$0  Amount in	Expenditure  Life  Amou	res/(Rev \$0 Cycle nt in Stu	o o o o o o o o o o o o o o o o o o o	Phases  0 0 71,800
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA	85,500  85,500  Per MPACT	rsonnel Non Pe \$0 \$ Yea	o o  rsonnel Revenues  o \$0  Amount in Amount Study	Expenditure  Life  Amou	res/(Rev \$0 Cycle nt in Stu	o o o o o o o o o o o o o o o o o o o	Phases  0 0 71,800 73,100
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA  Name	### Budget    85,500	rsonnel Non Pe \$0 \$  Yea  a change in the yea	rsonnel Revenues  0 \$0  Amount in Amount ir Amount ir and/or cost:	Expenditure  Life  Amou	res/(Rev \$0 Cycle nt in Stu	o o o o o o o o o o o o o o o o o o o	Phases  0 0 71,800 73,100
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	### Budget    85,500	rsonnel Non Pe \$0 \$  Yea  a change in the yea	rsonnel Revenues  0 \$0  Amount in Amount ir Amount ir and/or cost:	Expenditure  Life  Amou	res/(Rev \$0 Cycle nt in Stu	o o o o o o o o o o o o o o o o o o o	Phases  0 0 71,800 73,100
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	### Budget    85,500	rsonnel Non Pe \$0 \$  Yea  a change in the yea	rsonnel Revenues  0 \$0  Amount in Amount ir Amount ir and/or cost:	Expenditure  Life  Amou	res/(Rev \$0 Cycle nt in Stu	o o o o o o o o o o o o o o o o o o o	Phases  0 0 71,800 73,100
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	### Budget    85,500	rsonnel Non Pe \$0 \$  Yea  a change in the yea	rsonnel Revenues  0 \$0  Amount in Amount ir Amount ir and/or cost:	Expenditure  Life  Amou	res/(Rev \$0 Cycle nt in Stu	o o o o o o o o o o o o o o o o o o o	Phases  0 0 71,800 73,100
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	### Budget    85,500	rsonnel Non Pe \$0 \$  Yea  a change in the yea	rsonnel Revenues  0 \$0  Amount in Amount ir Amount ir and/or cost:	Expenditure  Life  Amou	res/(Rev \$0 Cycle nt in Stu	o o o o o o o o o o o o o o o o o o o	Phases  0 0 71,800 73,100



# WARKHAM 2020 PROJECT FUNDING REQUEST FORM

MARKHALI					N	ımber:	20154
					Project C	Cost:	\$20,400
Project Name: Recreation	on Aquatics Safet	y Audit				Studies/P	Pilot Programs
Commission: Community	y & Fire Services			,	Ta - C - 1 T : C	-	
Department: Recreation	Services				Jseful Life:	5 Pr	re Approval:
Project Mgr: Eric Ho				Category:			
Ward(s): CW ✓ 1	2 3 4 4			Cost Validation:			
5 🗆	6□ 7□ 8□		Require	ment Validation:	Legislative	compliance	
ETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):					
This project includes a safet ody overlooking water safe or an aquatics safety audit.							
BUILDING MARKHAM	'S FUTURE TOGI	ETHER: Safe &	z Sustainable	Community			
PROJECT COSTS (\$)	2020	Future Phases	NOTES	_		1 11 20	
Cost/Quote:	20,000	0		atics safety audit ed on a five (5) y			015. This audit is ervices currently
Internal Charges:	0	0	operates	eight (8) commu	nity pools. T	he compreh	ensive aquatic
External Consulting:	0	0		dit is conducted the participants			
Sub Total:	20,000	0					commendations to
HST Impact:	352	0	minimiz	e risk of drownin	g or serious v	vater-related	d injuries in
Total Project Cost:	20,400	0		elated facilities. accordingly in tl			Study will be
			adjusted	accordingly in a	ic next update		
OURCE(S) OF FUNDING	<u>G (\$)</u>		Co	mponents			— Future
unding Type	Budget					TOTA	
perating Funded Life Cycle	20,400	0	0	0	C	,	0 (
TOTAL FUNDING	20,400						0
OPERATING BUDGET I		sonnel Non Po	ersonnel	Revenues	Expenditu	es/(Revenu	ues)
		\$0	\$0	\$0		\$0	
CA/LIFE CYCLE DETA	AILS						
<u>DCA</u>		V.		Amount in	<u>Life</u>	Cycle	
Name		re	ear Amo	ınt Study	— Amou	nt in Study:	20,400
					Amou	nt Incl HST	20,400
					Year	in the study	2020
DCA and/or Life Cycle	: Explain if there is	a change in the ve	ar and/or co	ost:			
The amount requested is							
	, COMBISION WITH EN	e cycle us me pro	gram repea	is every e years.			



Page 653 **36**8

Project Name: Recreation	n Autonomous I	lloor Scrubbers		I	Project Cost	\$186	5,900
		TOOL DELUDIELS			R	tepair/Replac	e
Commission: Community				Usefu	ıl Life: 12	Pre Ap	proval:
Department: Recreation				Category: Mi	nor		
Project Mgr: Ryan Hann			Co	st Validation: Th	ird party esti	mate	
	2 □ 3 🗹 4 □			t Validation: Co			
	6□ 7□ 8✔		-				
his pilot project is to replace equest is to replace the man acility shut down hours, the	ce the existing floor ual T7 floor scrubb reby creating oppor	c-cleaning machine pers with autonomortunities for staff to	us models. Au address other	tonomous models tasks that are asso	allow for cle	eaning to be	done during
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Sale &	Sustainable Co	mmunity			
ROJECT COSTS (\$)	2020	Future Phases	NOTES				
Cost/Quote:	183,650	0		ondition assessmer			
_				ive reached their u The amount reques			
Internal Charges: External Consulting:	0	0	plus inflatio				1
<del>-</del>							
Sub Total:	183,650	0					
HST Impact:  Total Project Cost:	3,232						
= 10tai 110jeet eost.	186,900	0					
OURCE(S) OF FUNDING	G (\$)		Comp	onents			E4
unding Type	<b>Budget</b>	Milliken	Pan Am	Cornell		<b>TOTAL</b>	<u>Future</u> <u>Phases</u>
perating Funded Life Cycle	93,700	22,100	24,000	47,610	0	93,710	(
ıx	93,200	38,200	38,100	13,640	0	89,940	(
TOTAL FUNDING	186,900				=	183,650	
PERATING BUDGET I	MPACT Per	rsonnel Non Pe			penditures/	(Revenues)	
		\$0 \$	0	\$0	\$0		
<u>CA/LIFE CYCLE DETA</u> <u>DCA</u>	ILS				T.10. G	_	
Name		Yea	ar Amount	Amount in Study	<u>Life Cyc</u>	<u></u>	
- Tunic				Study	Amount i	n Study: 1	,600,200
					Amount I	ncl HST	46,900
					Year in t	he study	2020
DCA and/or Life Cycle	: Explain if there is	a change in the yea	ar and/or cost:				
Life Cycle Statement: M	Iilliken \$22,100, Pa	n Am \$24,000, Co	rnell \$47,610				
	. , ,	, , , , , , , , , , , , , , , , , , ,	. ,				



Project Name: Recreation Building Automation System (BAS) Replacement

Page 655 0 1 1 2

\$374,300

Repair/Replace

2020 PROJECT FUNDING REQUEST FORM 20156 Number:

**Project Cost:** 

	y & Fire Services			т	Jseful Life:	15 Pre Ar	proval:	
Department: Recreation	Services					13 FIE AL	provar. —	
Project Mgr: Ryan Hann	ıa		_	Category:				
Ward(s): CW ☐ 1☐	2 □ 3 □ 4 ✔			st Validation:				
5 🗆	6□ 7▼ 8□		Requiremen	nt Validation:	Condition as	ssessment		
ETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):						
his project is to replace exiting the control of the components of the control of	standards which sup	pport functionality a		of the City to in				
			NOTES					
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	The existing			for Rouge Riv		
Cost/Quote:	326,600	0				nent of systems		
Internal Charges:	0	0	BAS system will result in an annual hydro savings of \$2,259 starting in 2021. The replacement of Centennial BAS system will result in annual hydro savings of \$20,228 starting in 2021. There will be no savings or shipped in 2020. The energy savings will be					
External Consulting:	41,200	0						
Sub Total:	367,800	0						
HST Impact:	6,473	0						
Total Project Cost:	374,300	0	verification		1	, .		
OURCE(S) OF FUNDING	<u>G (\$)</u>		Comp	onents		_	Future_	
unding Type	<u>Budget</u>	Centennial	Rouge			TOTAL	<u>Phases</u>	
perating Funded Life Cycle	374,300	296,000	78,300	0	0	374,300	0	
TOTAL FUNDING	374,300					374,300	0	
OPERATING BUDGET I	MPACT Per	rsonnel Non Pe		Revenues	-	es/(Revenues)		
	MPACT	rsonnel Non Pe \$0 \$		<b>Revenues</b> \$0	-	es/(Revenues) \$0		
DPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA  Name	MPACT		0	\$0 Amount in	-	\$0		
CA/LIFE CYCLE DETA	MPACT	\$0 \$	0	\$0 Amount in	Life (	\$0	855,900	
DCA/LIFE CYCLE DETA DCA	MPACT	\$0 \$	0	\$0 Amount in	Life (	\$0 Cycle	855,900 374,300	
<u>CCA/LIFE CYCLE DETA</u> <u>DCA</u>	MPACT	\$0 \$	0	\$0 Amount in	Life ( — Amour	\$0  Cycle  Int in Study:		
DCA/LIFE CYCLE DETA DCA	MPACT	\$0 \$ Yea	0 nr Amount	\$0 Amount in	Life ( — Amour	\$0  Cycle  Int in Study:  Int Incl HST	374,300	
CA/LIFE CYCLE DETA DCA Name	MPACT  AILS  Explain if there is	\$0 \$  Yea  a change in the yea	o Amount	\$0 Amount in	Life ( — Amour	\$0  Cycle  Int in Study:  Int Incl HST	374,300	
DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	MPACT  AILS  Explain if there is	\$0 \$  Yea  a change in the yea	o Amount	\$0 Amount in	Life ( — Amour	\$0  Cycle  Int in Study:  Int Incl HST	374,300	
DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	MPACT  AILS  Explain if there is	\$0 \$  Yea  a change in the yea	o Amount	\$0 Amount in	Life ( — Amour	\$0  Cycle  Int in Study:  Int Incl HST	374,300	
DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	MPACT  AILS  Explain if there is	\$0 \$  Yea  a change in the yea	o Amount	\$0 Amount in	Life ( — Amour	\$0  Cycle  Int in Study:  Int Incl HST	374,300	
DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	MPACT  AILS  Explain if there is	\$0 \$  Yea  a change in the yea	o Amount	\$0 Amount in	Life ( — Amour	\$0  Cycle  Int in Study:  Int Incl HST	374,300	



# WARKHAM 2020 PROJECT FUNDING REQUEST FORM Number:

INVIVIALI			Number: 20157					157	
Project Name: Recreatio	n Fitness Equip	ment Repl	acemer	nt		Project C	Cost:	<b>\$190</b> ,	300
	0 E' C '						Rep	air/Replace	;
Commission: Community					Ţ	Jseful Life:	5	Pre App	oroval: $\square$
Department: Recreation	Services				Category:	Annual			
Project Mgr: Eric Ho				C	Cost Validation:	n: Internal peer review			
	Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □				ent Validation:				
	6 7 8			•					
DETAILED DESCRIPTION  Annual replacement program									_
flooring equipment.  BUILDING MARKHAM'					Thriving City				
PROJECT COSTS (\$)	2020	Future P	hases	NOTES					
Cost/Quote:	187,000	1 44410 1	0		ıla for replacem hat states 8% of				
Internal Charges:	0		0		ent value of equ				
External Consulting:	0		0		n 2018 was \$2.			•	•
Sub Total:	187,000		0		of 8%, it equates with previous			formula us	ed is
HST Impact:	3,291	-	0		n annual progra			be requeste	ed each year.
Total Project Cost:	190,300		0						
SOURCE(S) OF FUNDING	7 (4)								
SOURCE(S) OF FUNDING	<u> </u>			Con	ponents				<b>Future</b>
Funding Type	<u>Budget</u>						<u>-</u>	<u> FOTAL</u>	<u>Phases</u>
Operating Funded Life Cycle	190,300		0	0	0	C	)	0	0
TOTAL FUNDING	190,300						<u> </u>	0	
OPERATING BUDGET I	MPACT Per	rsonnel	Non Per	rsonnel	Revenues	Expenditu	es/(Re	evenues)	
OLEMATING DODGET I		\$0	\$0	)	\$0		\$0		

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
OI EMAIL OF DEDGET IVITACI	\$0	\$0	\$0	\$0
DOLATINE OVOLE DETAILS				

	<u>DCA/</u>	LIFE	CYC	_LLL_	<u>DET</u>	<u> </u>
T						

<u>DCA</u>		Amount in	Life Cycle	
Name	Year Amou	ınt Study	- Amount in Study:	227,400
			Amount Incl HST	190,300
			Year in the study	2020
• •	here is a change in the year and/or co			
Request in based on formula: *Fitne	ss Equipment is 2018 Revenue (\$2.32	(26M)*8% = \$187,	,000	



Page 659**367** 

Decited Name of D					Project (	Cost:	\$134,	900
Project Name: Recrea		ects				Repair/l	Replace	
Commission: Commu	nity & Fire Services			Ţ	Useful Life:	8 I	Pre Ann	roval:
Department: Recreati				Category:		0 -	T PP	20,42,
Project Mgr: Ryan Ha	anna		(	Cost Validation:		uda		
Ward(s): cw □	1 ☑ 2 □ 3 □ 4 ☑							
	5 ✓ 6 ✓ 7 □ 8 □		Requirem	ent Validation:	Condition a	ssessment		
ETAILED DESCRIPT	TION (SCOPE OF P	ROJECT):						
This project is to paint the Unionville, study rooms lead. C.C.	located in the library a	t Cornell C.C, the		area at Centeni				
	WI DI CICKE 100							
ROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	NOTES Perced on	andition assas	emant of the	neas the	noint h	0.0
Cost/Quote:	132,566	0		condition asses ed and requires				
Internal Charges:		0	paint incl	uding labour is	\$1.84 and 70,	078 sq ft	of space	has been
External Consulting:		0		to be painted.			944. Un	it cost is
Sub Total:	132,566	0	consisten	t with recent aw	ard plus inita	uon.		
HST Impact:		0						
Total Project Cost:		0						
	134,700	<u>U</u>						
OURCE(S) OF FUND	<u>ING (\$)</u>		Con	nponents				<u>Future</u>
unding Type	<u>Budget</u>	<u>Centennial</u>				<u>TO </u>	<u>TAL</u>	<u>Phases</u>
perating Funded Life Cycle	e 134,900	0	0	0	C	)	0	0
TOTAL FUNDING	134,900						0	0
	Per Per	rsonnel Non P	ersonnel	Revenues	Expenditu	es/(Rever	nues)	
OPERATING BUDGE	TIMPACT	\$0	\$0	\$0	-	\$0		
CA/LIFE CYCLE DE	TAILS							
<u>DCA</u>				Amount in	Life	Cycle		
Name		Y	ear Amou	nt Study		nt in Stud	v. 2 '	714,300
						•		
						nt Incl HS		135,000
					Year	in the stud	ly	2020
DCA and/or Life Cy	cle: Explain if there is	a change in the ye	ear and/or cos	st:				
	:: Centennial \$80,900,	Cornell \$7,800, C	ld Unionville	Library \$5,500	), Pingle Hou	se \$8,000,	Thornh	ill
\$18,700. Milliken \$8	3,000, Crosby \$6,000							



Page 661 **369**Number: 20160

Ducient Names D	D IC C	ъ .	4			Project C	Cost: \$5	1,900
Project Name: Recreation		керіасе	ment				Repair/Repl	ace
Commission: Community					Ţ	Jseful Life:	5 Pre A	Approval:
Department: Recreation	Services				Category:	Annual		
Project Mgr: Eric Ho				Cos	t Validation:		r review	
	2 3 4 5				t Validation:			
	6 7 8			1				
DETAILED DESCRIPTION								
Annual program for the repa	iir of pool grout du	ring the po	ol shut dov	vn process.				
BUILDING MARKHAM	S FUTURE TOG	ETHER:	Engaged,	Diverse & Th	riving City			
PROJECT COSTS (\$)	2020	Future 1	Phases	NOTES				
Cost/Quote:	51,000	<u>r uture r</u>	0				out down on a sese funds will s	
Internal Charges:	0		0				The pool grout	
External Consulting:	0		0	inspected du	ring each poo	ol's annual sh	utdown. The a	mount of work
Sub Total:			0				determined du on historical	ring each pool
HST Impact:	51,000 898		0	spent. The 3	3-year averag	e is \$51,000.	This is an ann	ual program
Total Project Cost:	51,900		0				r. The Life Cy	
=	31,700			Study Will b	e adjusted acc	cordingly in t	he next update	······································
SOURCE(S) OF FUNDING	G (\$)			Comp	onents			Entropo
Funding Type	<u>Budget</u>						TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	51,900		0	0	0	C	0	0
TOTAL FUNDING	51,900						0	0
TOTALTONDING								
	Pe Pe	rsonnel	Non Pers	sonnel R	evenues	Expenditu	es/(Revenues	)
OPERATING BUDGET I	MPACT	\$0	\$0		\$0	_	\$0	
DCA/LIFE CYCLE DETA	AILS				<u>:</u>		<u>·</u>	
<u>DCA</u>	·				Amount in	<u>Life</u>	<u>Cycle</u>	
<del></del>								
Name			Year	Amount	Study	– Amou	nt in Study:	
			Year	Amount	Study		nt in Study:	
			Year	Amount	Study	Amou	nt Incl HST	2020
Name	- Falsis if days	1			Study	Amou		2020
Name  DCA and/or Life Cycle	-				Study	Amou	nt Incl HST	2020
Name	-				Study	Amou	nt Incl HST	2020
Name  DCA and/or Life Cycle	-				Study	Amou	nt Incl HST	2020
Name  DCA and/or Life Cycle	-				Study	Amou	nt Incl HST	2020
Name  DCA and/or Life Cycle	-				Study	Amou	nt Incl HST	2020



Page 663 **3 7**88

Number: 20161

<u> </u>					Project C	Cost: \$	94,400
Project Name: Recreation	on Program Equ	ipment Replacen	nent			Repair/Rep	olace
Commission: Community	y & Fire Services			ī	Jseful Life:		Approval:
Department: Recreation	Services			Category:		3 110	ripprovar. —
Project Mgr: Eric Ho			C				
Ward(s): CW ✓ 1	2 🗆 3 🗆 4 🗆			ost Validation: nt Validation:			
5	6 7 8		Requireme	nt vandation:	Condition as	ssessment	
DETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):					
Annual program to replace on the state of th	ball nets, learn to sl	kate equipment, stor		equipment.	s program ind	elude: presch	ool equipment,
			NOTES				
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	NOTES The 3 year	average spent	from the Ann	uial Programs	s Equipment is
Cost/Quote:	92,800	0	\$94,400. 7	he equipment			rograms that are
Internal Charges:	0	0	revenue ge	nerating. annual prograi	m and fundin	a is reallester	l each vear
External Consulting:	0	0		ycle Reserve S			•
Sub Total:	92,800	0	next update	<b>).</b>	-		
HST Impact:	1,633	0					
Total Project Cost:	94,400	0					
SOURCE(S) OF FUNDING	G (\$)		Com	onents			
Funding Type	Budget					TOTA	<u>Future</u> <u>L Phases</u>
Operating Funded Life Cycle	94,400	0	0	0	0	) (	) 0
TOTAL FUNDING	94,400						0
	Pe	rsonnel Non Pe	rsonnel	Revenues	Expenditur	res/(Revenue	es)
OPERATING BUDGET I	<u>IMPACT</u>	\$0 \$		\$0		\$0	,
DCA/LIFE CYCLE DETA	AILS						
<u>DCA</u>				Amount in	<u>Life</u>	Cycle	
Name		Yea	ır Amoun	Study	– Amou	nt in Study:	82,800
						nt Incl HST	94,400
						in the study	2020
DCA and/or Life Cycle	o: Evolain if there is	a change in the yes	r and/or cost	,	Tour	in the stady	2020
The Life Cycle formula	-		i and/or cost				
The Life Cycle formula	is the 3-year averag	5 <b>c.</b>					



Page 665 **1** 

**Number:** 20162 **Project Cost:** \$171,000 Project Name: Recreation Rubber Floor Replacement Repair/Replace

Commission: Community & Fire Services Pre Approval: Useful Life: 12. Department: Recreation Services Category: Minor Project Mgr: Scott Hill Cost Validation: Recent awards

CW □ 1□ 2□ 3 ✓ 4□ Ward(s): Requirement Validation: Condition assessment 

#### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

This project is to replace existing rubber flooring in the arena at Crosby C.C and the arena at Milliken Mills C.C. The arena area consists of the lobby, the dressing rooms, the viewing area and the washrooms. There is 2,300 sqft being replaced at Crosby C.C and 5,700 sqft being replaced at Milliken Mills.C.C. Rubber flooring is specifically used in arena applications, as it is cut resistant and durable.

**BUILDING MARKHAM'S FUTURE TOGETHER:** Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	168,000	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	168,000	0
HST Impact:	2,957	0
Total Project Cost:	171,000	0

#### **NOTES**

Existing rubber flooring was installed in 2004 at Crosby C.C and 2005 at Milliken Mills C.C. A condition assessment of the flooring indicates replacement is warranted. There is a total of 8,000 sq ft being replaced. Rubber flooring costs approximately \$ 21per sq ft including labour x 8,000 sq ft = \$168,000. Cost per unit is consistent with recent award plus inflation.

SOURCE(S) OF FUNDING (\$)			Compon	nents			Entres
Funding Type	<b>Budget</b>	Crosby	Milliken			TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	171,000	48,300	119,700	0	0	168,000	0
TOTAL FUNDING	171,000				=	168,000	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	<b>Expenditures/(Revenues)</b>	
OI ERMINO BODGET IVITALET	\$0	\$0	\$0	\$0	

#### DCA/LIFE CYCLE DETAILS

<u>DCA</u>		Amount in	<u>Life Cycle</u>
Name	Year Amount	Study	Amount in Study: 1,608,7
			Amount Incl HST 171,0
			Year in the study 20
DCA and/or Life Cycle: Explain if there is a			
Life Cycle Statement: Crosby \$48,300, Millil	ken \$119,700		



Page 667**375** 

Don't of Many D	a a .	<b>D</b> 1			Project (	Cost:	\$457	,200
Project Name: Recreation		em Keplacement				Repai	r/Replac	e
Commission: Communit				Į	Jseful Life:	10	Pre Ap	proval:
Department: Recreation				Category:	Minor		1	•
Project Mgr: Ryan Hanı			Cos	t Validation:		estimate	2	
	2 3 4 2			Validation:				
	6 7 7 8		1					
This project is to replace ex Clatworthy C.C. Morgan Posystems will support a safe	isting security system ool. The system is convironment for sta	em at Armadale C.C omprised of camera ff and users. New ed	s, DVR and a o	lisplay monited	or. The repla	cement o	of the se	
DDOIECT COSTS (\$)	2020	E ( DI	NOTES					
PROJECT COSTS (\$)	<u>2020</u>	Future Phases	A condition	assessment of				
Cost/Quote:	449,250	0		rmadale secu Clatworthy				
Internal Charges:	0	0		004). The am				
External Consulting:	0	0	Life Cycle R	eserve Study	update.			
Sub Total:	449,250	0						
HST Impact: Total Project Cost:	7,907	0						
Total Project Cost.	457,200							
SOURCE(S) OF FUNDIN	<u>G (\$)</u>		Compo	onents				Future
Funding Type	Budget					<u>T(</u>	<u>OTAL</u>	<u>Phases</u>
	<b>Budget</b> 457,200	0	0	0	(		0 OTAL	Phases 0
Funding Type Operating Funded Life Cycle TOTAL FUNDING		0	0	0	(			
Operating Funded Life Cycle  TOTAL FUNDING	457,200 457,200	0 rsonnel Non Pe		0 evenues	Expenditu	)	0	0
Operating Funded Life Cycle	457,200 457,200		rsonnel R			)	0	0
Operating Funded Life Cycle  TOTAL FUNDING	457,200 457,200 Pe	rsonnel Non Pe	rsonnel R	evenues		res/(Rev	0	0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET DETA  DCA/LIFE CYCLE DETA  DCA	457,200 457,200 Pe	rsonnel Non Pe \$0 \$	rsonnel R	evenues \$0 Amount in	Expenditu	res/(Rev	0	0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET 1  DCA/LIFE CYCLE DETA	457,200 457,200 Pe	rsonnel Non Pe	rsonnel R	evenues \$0	Expenditure Life	res/(Rev \$0	0 0 venues)	0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET DETA  DCA/LIFE CYCLE DETA  DCA	457,200 457,200 Pe	rsonnel Non Pe \$0 \$	rsonnel R	evenues \$0 Amount in	Expenditure  Life  Amou	res/(Rev \$0	0 0 venues)	0 0 .781,000
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET DETA  DCA/LIFE CYCLE DETA  DCA	457,200 457,200 Pe	rsonnel Non Pe \$0 \$	rsonnel R	evenues \$0 Amount in	Expenditure  Life  Amou	res/(Rev \$0 Cycle  nt in Stu	0 0 venues)	0 0 0 
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET DCA/LIFE CYCLE DETA  DCA  Name	457,200 457,200 Pe  IMPACT AILS	rsonnel Non Pe \$0 \$ Yes	rsonnel R 0 ar Amount	evenues \$0 Amount in	Expenditure  Life  Amou	\$0  Cycle  Int in Stu  Int Incl H	0 0 venues)	0 0 .781,000
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET DETAILED DETAI	457,200  457,200  Pe  IMPACT  AILS  e: Explain if there is	rsonnel Non Pe \$0 \$  Yea  s a change in the yea	rsonnel R 0  ar Amount ur and/or cost:	\$0  Amount in Study	Life Amou Amou Year	res/(Rev \$0 Cycle  Int in Stu  Int Incl H  In the str	o o o o o o o o o o o o o o o o o o o	0 0 0,781,000 457,200 2020
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET DETA  DCA/LIFE CYCLE DETA  DCA  Name	457,200  457,200  Pe  IMPACT  AILS  e: Explain if there is	rsonnel Non Pe \$0 \$  Yea  s a change in the yea	rsonnel R 0  ar Amount ur and/or cost:	\$0  Amount in Study	Life Amou Amou Year	res/(Rev \$0 Cycle  Int in Stu  Int Incl H  In the str	o o o o o o o o o o o o o o o o o o o	0 0 0,781,000 457,200 2020
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DETA  DCA  Name  DCA and/or Life Cycle	457,200  457,200  Pe  IMPACT  AILS  e: Explain if there is	rsonnel Non Pe \$0 \$  Yea  s a change in the yea	rsonnel R 0  ar Amount ur and/or cost:	\$0  Amount in Study	Life Amou Amou Year	res/(Rev \$0 Cycle  Int in Stu  Int Incl H  In the str	o o o o o o o o o o o o o o o o o o o	0 0 0,781,000 457,200 2020
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DETA  DCA  Name  DCA and/or Life Cycle	457,200  457,200  Pe  IMPACT  AILS  e: Explain if there is	rsonnel Non Pe \$0 \$  Yea  s a change in the yea	rsonnel R 0  ar Amount ur and/or cost:	\$0  Amount in Study	Life Amou Amou Year	res/(Rev \$0 Cycle  Int in Stu  Int Incl H  In the str	o o o o o o o o o o o o o o o o o o o	0 0 0,781,000 457,200 2020
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DETA  DCA  Name  DCA and/or Life Cycle	457,200  457,200  Pe  IMPACT  AILS  e: Explain if there is	rsonnel Non Pe \$0 \$  Yea  s a change in the yea	rsonnel R 0  ar Amount ur and/or cost:	\$0  Amount in Study	Life Amou Amou Year	res/(Rev \$0 Cycle  Int in Stu  Int Incl H  In the str	o o o o o o o o o o o o o o o o o o o	0 0 0,781,000 457,200 2020



Page 669 **3 7**87

Number:	20164
---------	-------

Duningt Names D	G 1G 4	D 1		Project C	ost: \$5	50,000
Project Name: Recreation		Replacement			Repair/Rep	ace
Commission: Communit	y & Fire Services		Ţ	Jseful Life:	12 Pre 2	Approval:
Department: Recreation			Category:			TT ·····
Project Mgr: Ryan Hanı			Cost Validation:		ectimate	
Ward(s): $CW \square 1$	2 3 4 4		Requirement Validation:			
5 🗆	□ 6□ 7□ 8□		requirement variation.	Condition as	Sessificit	
DETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):				
This project is to replace the rograms, public skate, ice			Centennial C.C. This Sound	System replace	eement will su	apport City
BUILDING MARKHAM	'S FUTURE TOG	ETHER: Safe &	Sustainable Community			
PROJECT COSTS (\$)	2020	Future Phases	NOTES			
Cost/Quote:	49,100	0	A condition assessment of warranted. The installation			
Internal Charges:	0	0	Centennial (1996). The a			
External Consulting:	0	0	2019 Life Cycle Reserve	Study update.		
Sub Total:	49,100	0				
HST Impact:	864	0				
Total Project Cost:	50,000	0				
<u> </u>	20,000					
OURCE(S) OF FUNDIN	<u>G (\$)</u>		Components			Future
OURCE(S) OF FUNDIN unding Type	G (\$)  Budget	<u>Centennial</u>	Components  Thornhill		TOTAL	Future Phases
		Centennial 21,600		0	<b>TOTAL</b> 50,000	
unding Type	Budget		<u>Thornhill</u>	0		Phases 0
perating Funded Life Cycle TOTAL FUNDING	50,000 50,000	21,600	<u>Thornhill</u>		50,000	0 0
Punding Type  Operating Funded Life Cycle	50,000 50,000	21,600	Thornhill 28,400 0  rsonnel Revenues	Expenditur	50,000	0 0
Tunding Type Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET	50,000  50,000  Per	21,600 rsonnel Non Pe	Thornhill 28,400 0  rsonnel Revenues	Expenditur	50,000 50,000 es/(Revenues	0 0
Tunding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  OCA/LIFE CYCLE DETA  DCA	50,000  50,000  Per	21,600  rsonnel Non Pe \$0 \$	Thornhill  28,400 0  rsonnel Revenues 0 \$0  Amount in	Expenditur	50,000 50,000 es/(Revenues	0 0
Tunding Type  Type Type Type Type Type Type Type Type	50,000  50,000  Per	21,600 rsonnel Non Pe	Thornhill  28,400 0  rsonnel Revenues 0 \$0  Amount in	Expenditur	50,000 50,000 es/(Revenues	0 0 0
cunding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET DOCA/LIFE CYCLE DETA  DCA	50,000  50,000  Per	21,600  rsonnel Non Pe \$0 \$	Thornhill  28,400 0  rsonnel Revenues 0 \$0  Amount in	Expenditur  Life (	50,000  50,000  es/(Revenues  \$0  Cycle  at in Study:	0 0 0 1,123,900
cunding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET DOCA/LIFE CYCLE DETA  DCA	50,000  50,000  Per	21,600  rsonnel Non Pe \$0 \$	Thornhill  28,400 0  rsonnel Revenues 0 \$0  Amount in	Expenditur  Life (	50,000  50,000  es/(Revenues  \$0  Cycle  at in Study:  at Incl HST	1,123,900 50,000
perating Funded Life Cycle TOTAL FUNDING  DPERATING BUDGET  DCA/LIFE CYCLE DETA  DCA  Name	Budget	21,600  rsonnel Non Pe \$0 \$	Thornhill  28,400 0  rsonnel Revenues 0 \$0  Amount in Study	Expenditur  Life (	50,000  50,000  es/(Revenues  \$0  Cycle  at in Study:	0 0 0 1,123,900
perating Funded Life Cycle TOTAL FUNDING  DPERATING BUDGET D  DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	Budget  50,000  50,000  Per  AILS  e: Explain if there is	21,600  rsonnel Non Pe \$0 \$  Yes  a change in the year	Thornhill  28,400 0  rsonnel Revenues 0 \$0  Amount in Study	Expenditur  Life (	50,000  50,000  es/(Revenues  0  Cycle  at in Study:  at Incl HST	1,123,900 50,000
perating Funded Life Cycle TOTAL FUNDING  DPERATING BUDGET  DCA/LIFE CYCLE DETA  DCA  Name	Budget  50,000  50,000  Per  AILS  e: Explain if there is	21,600  rsonnel Non Pe \$0 \$  Yes  a change in the year	Thornhill  28,400 0  rsonnel Revenues 0 \$0  Amount in Study	Expenditur  Life (	50,000  50,000  es/(Revenues  0  Cycle  at in Study:  at Incl HST	1,123,900 50,000
perating Funded Life Cycle TOTAL FUNDING  DPERATING BUDGET D  DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	Budget  50,000  50,000  Per  AILS  e: Explain if there is	21,600  rsonnel Non Pe \$0 \$  Yes  a change in the year	Thornhill  28,400 0  rsonnel Revenues 0 \$0  Amount in Study	Expenditur  Life (	50,000  50,000  es/(Revenues  0  Cycle  at in Study:  at Incl HST	1,123,900 50,000
perating Funded Life Cycle TOTAL FUNDING  DPERATING BUDGET D  DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	Budget  50,000  50,000  Per  AILS  e: Explain if there is	21,600  rsonnel Non Pe \$0 \$  Yes  a change in the year	Thornhill  28,400 0  rsonnel Revenues 0 \$0  Amount in Study	Expenditur  Life (	50,000  50,000  es/(Revenues  0  Cycle  at in Study:  at Incl HST	1,123,900 50,000
perating Funded Life Cycle TOTAL FUNDING  DPERATING BUDGET D  DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	Budget  50,000  50,000  Per  AILS  e: Explain if there is	21,600  rsonnel Non Pe \$0 \$  Yes  a change in the year	Thornhill  28,400 0  rsonnel Revenues 0 \$0  Amount in Study	Expenditur  Life (	50,000  50,000  es/(Revenues  0  Cycle  at in Study:  at Incl HST	1,123,900 50,000



Page 671 **379**Number: 20165

D: W D	<b></b>			Project Co	ost: \$54,	700
Project Name: Recreatio	n Tables and Ch	airs Keplaceme	<u>nt</u>		Repair/Replac	e
Commission: Community Department: Recreation			Category:	Jseful Life: Annual	5 Pre Ap	proval:
Project Mgr: Eric Ho			Cost Validation:	Internal peer	review	
	2		Requirement Validation:	Condition as	sessment	
DETAILED DESCRIPTION		ROIECT).				
Annual program to replace to			tion facilities.			
BUILDING MARKHAM'	S FUTURE TOG	FTHER. Engage	ed, Diverse & Thriving City			
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	NOTES The 3 year average spent	on this replace	ement program	is \$53.800.
Cost/Quote:	53,800	0	Tables and chairs are equ	ipment used to		
Internal Charges:	0	0	generating programs and *This is an annual progra		will be request	ed each
External Consulting:	0	0	year. The Life Cycle Rese			
Sub Total:	53,800	0	the next update.			
HST Impact:	947	0				
Total Project Cost:	54,700	0				
SOURCE(S) OF FUNDING	G (\$)		Components			Entuno
Funding Type	<u>Budget</u>				TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	54,700	0	0 0	0	0	(
TOTAL FUNDING	54,700				0	(
	Per Per	rsonnel Non Pe	ersonnel Revenues	Expenditure	es/(Revenues)	
OPERATING BUDGET I	MPACT	\$0 \$	50 \$0	_	60	
DCA/LIFE CYCLE DETA DCA	AILS					
<u>DCA</u> Name		Ye	Amount in ar Amount Study	<u>Life (</u>	<u>Cycle</u>	
Tune				— Amoun	t in Study:	53,700
				Amoun	t Incl HST	53,800
				Year i	n the study	
DCA and/or Life Cycle	: Explain if there is	a change in the year	ar and/or cost:			
The Life Cycle formula	is the 3-year averag	ge.				



Page 673 **388** 

\$24,900

ST FORM	Number:	20166	
	1 (011110 01 0		1

**Project Cost:** 

		nd Exhaust Fan	Donlocoment				
Project Name: Rouge R	<u> </u>	nu Exhaust Fan	Керіасешені			Repair/Replace	ce
Commission: Communication				Use	eful Life:	15 Pre A <sub>1</sub>	proval:
Department: Recreatio				Category: N		- ,	. 1
Project Mgr: Ryan Har			Cost '	Validation: T		estimate	
	2 3 4 4		Requirement V				
5[	□ 6□ 7▼ 8□		requirement		ondition a		
DETAILED DESCRIPT	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					
This project is to replace e bool pump at Rouge River		the washrooms, au	ditorium, mainte	enance rooms	and 3 mec	hanical pumps	and one (1)
booi pump at Rouge River	C.C.						
BUILDING MARKHAN	A'S FUTURE TOGI	ETHER: Safe &	Sustainable Comn	nunity			
PROJECT COSTS (\$)	2020	Future Phases	NOTES				
Cost/Quote:	24,475	0				dition assessme d. Rooftop exha	
Internal Charges:	0	0				0. The amount	
External Consulting:	0	0				serve Study upo	
Sub Total:	24,475						
HST Impact:	431	$\frac{0}{0}$					
Total Project Cost:	24,900	0					
		<u>U</u>					
OURCE(S) OF FUNDI	NG (\$)		Compon	ents			<u>Future</u>
				Labour		TOTAL	Phases
<u>Sunding Type</u>	<u>Budget</u>	Exhaust Fans	<u>Pumps</u>	Labour	•	IUIAL	<u>1 1145C5</u>
Funding Type  Operating Funded Life Cycle	<b>Budget</b> 24,900	Exhaust Fans 6,575	14,900	3,000	0		0
Operating Funded Life Cycle	24,900					24,475	
							0
Operating Funded Life Cycle TOTAL FUNDING	24,900 24,900		14,900	3,000	0	24,475	0
Operating Funded Life Cycle	24,900 24,900	6,575	14,900 Rev	3,000	0 Expenditur	24,475 <b>24,475</b>	0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  OCA/LIFE CYCLE DET	24,900  24,900  Per	6,575	14,900 Rev	3,000 renues I	0 Expenditur	24,475 24,475 res/(Revenues)	0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  OCA/LIFE CYCLE DET  DCA	24,900  24,900  Per	6,575  rsonnel Non Per \$0 \$6	14,900  resonnel Rev	3,000 renues F	0 Expenditur	24,475 24,475 res/(Revenues)	0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  OCA/LIFE CYCLE DET	24,900  24,900  Per	6,575	14,900  rsonnel Rev	3,000 renues F	Expenditur Life	24,475 24,475 24,475 res/(Revenues) \$0	0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  OCA/LIFE CYCLE DET  DCA	24,900  24,900  Per	6,575  rsonnel Non Per \$0 \$6	14,900  resonnel Rev	3,000 renues F	Expenditur  Life of Amounts	24,475 24,475 res/(Revenues) \$0	<u>0</u> <u>0</u>
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  OCA/LIFE CYCLE DET  DCA	24,900  24,900  Per	6,575  rsonnel Non Per \$0 \$6	14,900  resonnel Rev	3,000 renues F	Expenditur  Life ( Amou	24,475  24,475  24,475  res/(Revenues)  \$0  Cycle  nt in Study:	0 0 143,100
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DET  DCA  Name	24,900  24,900  Per  CAILS	6,575  Sonnel Non Per \$0 \$0	14,900  rsonnel Rev	3,000 renues F	Expenditur  Life ( Amou	24,475  24,475  res/(Revenues)  \$0  Cycle  nt in Study:   nt Incl HST	143,100 24,900
Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET OCA/LIFE CYCLE DET DCA Name  DCA and/or Life Cyc	24,900  24,900  Per CAILS  Replace of the series of the se	6,575  Sonnel Non Per  \$0 \$0  Yea  a change in the yea	14,900  rsonnel Rev  Ar Amount	3,000 renues F \$0 renues I \$0	Life of Amount Year	24,475  24,475  res/(Revenues)  \$0  Cycle  nt in Study:   nt Incl HST	143,100 24,900
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DET  DCA  Name	24,900  24,900  Per CAILS  Replace of the series of the se	6,575  Sonnel Non Per  \$0 \$0  Yea  a change in the yea	14,900  rsonnel Rev  Ar Amount	3,000 renues F \$0 renues I \$0	Life of Amount Year	24,475  24,475  res/(Revenues)  \$0  Cycle  nt in Study:   nt Incl HST	143,100 24,900
Deperating Funded Life Cycle TOTAL FUNDING DPERATING BUDGET DCA/LIFE CYCLE DET DCA Name  DCA and/or Life Cyc	24,900  24,900  Per CAILS  Replace of the series of the se	6,575  Sonnel Non Per  \$0 \$0  Yea  a change in the yea	14,900  rsonnel Rev  Ar Amount	3,000 renues F \$0 renues I \$0	Life of Amount Year	24,475  24,475  res/(Revenues)  \$0  Cycle  nt in Study:   nt Incl HST	143,100 24,900
Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET OCA/LIFE CYCLE DET DCA Name  DCA and/or Life Cyc	24,900  24,900  Per CAILS  Replace of the series of the se	6,575  Sonnel Non Per  \$0 \$0  Yea  a change in the yea	14,900  rsonnel Rev  Ar Amount	3,000 renues F \$0 renues I \$0	Life of Amount Year	24,475  24,475  res/(Revenues)  \$0  Cycle  nt in Study:   nt Incl HST	143,100 24,900
Deperating Funded Life Cycle TOTAL FUNDING DPERATING BUDGET DCA/LIFE CYCLE DET DCA Name  DCA and/or Life Cyc	24,900  24,900  Per CAILS  Replace of the series of the se	6,575  Sonnel Non Per  \$0 \$0  Yea  a change in the yea	14,900  rsonnel Rev  Ar Amount	3,000 renues F \$0 renues I \$0	Life of Amount Year	24,475  24,475  res/(Revenues)  \$0  Cycle  nt in Study:   nt Incl HST	143,100 24,900



Page 675 **383** 

FORM			U
FUKM	Number:	20167	

D ' (N						Project (	Cost: \$1	10,000
Project Name: Thornhil	I C.C. Filter Spa	Replacen	nent				Repair/Rep	lace
Commission: Communit	y & Fire Services				I	Useful Life:		Approval:
Department: Recreation					Category:		12 110	ripprovur.
Project Mgr: Martin Bar	row			Con				
Ward(s): $CW \square 1$	2 3 4 4				st Validation:			
5 🗆	6 7 8			Requiremen	t Validation:	Condition a	issessment	
ETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT)	:					
This project is to replace two ool by circulating the wate dentre.								
BUILDING MARKHAM	'S FUTURE TOG	ETHER:	Safe & Su	ustainable Cor	nmunity			
PROJECT COSTS (\$)	2020	Future F	Phases	NOTES				
Cost/Quote:	9,800		0	U 1			006. A conditi warranted. Th	on assessment
Internal Charges:	0		0				award plus inf	
External Consulting:	0		0				•	
Sub Total: HST Impact:	9,800		0 0					
Total Project Cost:	<del></del> _							
i otal i roject cost.	10,000							
OURCE(S) OF FUNDIN	<u>G (\$)</u>			Comp	onents			- Futuro
unding Type	<b>Budget</b>						<b>TOTA</b>	<u>Future</u> L <u>Phases</u>
perating Funded Life Cycle	10,000		0	0	0	(	0 0	0
TOTAL FUNDING	10,000							0
	Pe Pe	rsonnel	Non Pers	onnel R	evenues	Expenditu	res/(Revenue	s)
OPERATING BUDGET I	<u>MPACI</u>	\$0	\$0		\$0		\$0	
CA/LIFE CYCLE DETA	AILS							
<u>DCA</u>					Amount in	<u>Life</u>	Cycle	
Name			Year	Amount	Study	Amoi	ınt in Study:	364,700
							int Incl HST	10,000
						Year	in the study	2020
DCA and/or Life Cycle	-				****			
Life Cycle includes: So \$248,880), Painting \$18		Security S	ystem \$37.	.5k, Spa Filte	er \$10k, Rink	Boards \$23	lk (reduced fr	om
\$240,000), I aming \$10	). / K,							
i i								



### 202

Page 677 **385** 

ON DEALECT ELIMINING DEALIEST EADM	<b>1</b>	- 1 wg 0 1 1 <b>3</b>	<b>D</b> J
20 PROJECT FUNDING REQUEST FORM	Number:	20168	
P	Project Cost:	\$210,400	

Project Name: Thornhill	C.C. Rink Boar	d and Arena N	etting Repla	cement		Repair	/Replac	e
Commission: Community	& Fire Services			Ī	Jseful Life:			proval:
Department: Recreation Services					20	псир	provar. —	
Project Mgr: Martin Barr	ow		Category: Minor Cost Validation: Third party estimate					
Ward(s): $CW \square 1                                  $							4	
5 🗆	6□ 7□ 8□		Requireme	ent Validation:	Condition a	issessmen	τ	
DETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):						
This project is to replace the safe environment for arena us		nd arena netting in	the arena at	Thornhill C.C.	This replace	ment supp	orts pro	oviding a
BUILDING MARKHAM'S	S FUTURE TOGI	ETHER: Safe &	& Sustainable C	Community				
PROJECT COSTS (\$)	<u>2020</u>	<u>Future Phases</u>	NOTES The existing	ng rink boards	were installe	d in 1990	A cond	dition
Cost/Quote:	206,800	0	assessmen	t of the system	indicates rep	lacement	is warr	anted. The
Internal Charges:	0	0	amount re Study upd	quested is cons	istent with th	e 2019 Li	fe Cycl	e Reserve
External Consulting:	0	0	Study upu	aic.				
Sub Total:	206,800	0						
HST Impact:	3,640	0						
Total Project Cost:	210,400	0						
SOURCE(S) OF FUNDING	<del>(</del> \$)		Com	ponents				<b>D</b> 4
Funding Type	Budget					<u>TO</u>	TAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	210,400	0	0	0	(	0	0	0
TOTAL FUNDING	210,400						0	0
OPERATING BUDGET IN	ADA CT Per	rsonnel Non P	ersonnel	Revenues	Expenditu	res/(Reve	enues)	
OF ERATING BUDGET IN	MFACI	\$0	\$0	\$0		\$0		
DCA/LIFE CYCLE DETA	ILS							
<u>DCA</u>				Amount in	<u>Life</u>	Cycle		
Name		Y	ear Amour	nt Study	– Amoı	ınt in Stud	ly:	364,700
						int Incl H	` -	210,400
						in the stu		2020
DCA and/antifacture	E1-1 16411-	a alaman la da	1/	4.	1 Cai	III tile stu	шу	2020
DCA and/or Life Cycle: Life Cycle includes: Sour \$248,880), Painting \$18.	nd system \$28.4k,				Boards \$23	lk (reduce	ed from	



Page 679 **387** 

D'AN PER					Project (	Cost: \$2:	5,900
Project Name: Thornlea		Shower Repla	cement			Repair/Repla	ace
Commission: Community				Ţ	Jseful Life:	15 Pre A	pproval:
Department: Recreation				Category:			11
Project Mgr: Martin Barr			Co	st Validation:		estimate	
	2 3 4 4			nt Validation:			
5 🗌	6 7 8		requiremen	it vandation.			
DETAILED DESCRIPTIO							
This project is to replace exist current system is comprised showers for our users suppor	of six (6) shower v	alves and wile til					
BUILDING MARKHAM'S	S FUTURE TOG	ETHER: Safe	& Sustainable Co	mmunity			
PROJECT COSTS (\$)	2020	Future Phases	NOTES				
Cost/Quote:	25,463	0				in 1985. A con placement is w	
Internal Charges:	0	0	amount requ	uested is consi		e 2019 Life Cy	
External Consulting:	0	0	Study updat	e.			
Sub Total:	25,463	0					
HST Impact:	448	0					
Total Project Cost:	25,900	0					
=							
SOURCE(S) OF FUNDING	<del>3 (\$)</del>		Comp	onents			<u>Future</u>
Funding Type	Budget					TOTAL	
Operating Funded Life Cycle	25,900	0	0	0	(	0	0
TOTAL FUNDING	25,900					0	0
ODED ATING DUDGET I	MDA CT Pe	rsonnel Non	Personnel R	Revenues	Expenditu	res/(Revenues)	1
OPERATING BUDGET II	MPACT Pe	rsonnel Non	Personnel R	Revenues \$0	Expenditu	res/(Revenues)	1
	MPACT				Expenditu	,	)
DCA/LIFE CYCLE DETA DCA	MPACT	\$0	\$0	\$0 Amount in	•	,	
DCA/LIFE CYCLE DETA	MPACT	\$0		\$0 Amount in	Life	\$0  Cycle	
DCA/LIFE CYCLE DETA DCA	MPACT	\$0	\$0	\$0 Amount in	Life  — Amou	\$0	6,100
DCA/LIFE CYCLE DETA DCA	MPACT	\$0	\$0	\$0 Amount in	Life — Amou Amou	\$0  Cycle  nt in Study: [  nt Incl HST [	6,100 25,900
DCA/LIFE CYCLE DETA DCA Name	ALS	\$0 Y	\$0  Year Amount	\$0 Amount in	Life — Amou Amou	\$0  Cycle  nt in Study:	6,100
DCA/LIFE CYCLE DETA DCA	MPACT  LIS  : Explain if there is	\$0  Solve the so	\$0  Year Amount  year and/or cost:	\$0  Amount in Study	Life — Amou Amou Year	\$0  Cycle  nt in Study:   nt Incl HST   in the study	6,100 25,900 2020



Page 681 **389**Number: 20170

D ' AN					Project (	Cost: \$39	,700
Project Name: Thornlea	Pool Deck Drain	n Piping Repla	cement			Repair/Replac	e
Commission: Community	y & Fire Services			I	Jseful Life:		proval:
Department: Recreation				Category:		13 11011	provan.
Project Mgr: Martin Bar	row		Co	st Validation:		nda	
Ward(s): $CW \square 1$	2 3 4						
5 🗆	6 7 8		Requiremen	nt Validation:	Condition a	ssessment	
DETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):					
This project is to replace ex- provides a safe deck to walk		iins at Thornlea I	Pool. Deck drain:	s are used to r	emove water	from pool deck	which
BUILDING MARKHAM	'S FUTURE TOG	ETHER: Safe	& Sustainable Co	mmunity			
PROJECT COSTS (\$)	2020	Future Phases	NOTES Existing po	ol dack drains	wara installa	ed in 1985. A co	adition
Cost/Quote:	39,000	0				cement is warran	
Internal Charges:	0	0	consistent v	vith recent sta	ff award plus	inflation.	
External Consulting:	0	0					
Sub Total:	39,000	0					
HST Impact:	686	0					
Total Project Cost:	39,700	0					
=							
SOURCE(S) OF FUNDING	<u>G (\$)</u>		Comp	onents			Future
						<b>TOTAL</b>	<u>Phases</u>
Funding Type	Budget						
	39,700	0	0	0	(	) 0	0
		0	0	0	(	0	<u> </u>
	39,700 39,700			0 Revenues			
Operating Funded Life Cycle	39,700 39,700					0	
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA	39,700  39,700  Pe	rsonnel Non	Personnel F	Revenues		res/(Revenues)	
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA	39,700  39,700  Pe	rsonnel Non \$0	Personnel F	Revenues \$0 Amount in	Expenditu	res/(Revenues)	
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA	39,700  39,700  Pe	rsonnel Non \$0	Personnel F	Revenues \$0 Amount in	Expenditure Life	res/(Revenues)	
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA	39,700  39,700  Pe	rsonnel Non \$0	Personnel F	Revenues \$0 Amount in	Expenditure  Life  Amou	res/(Revenues) \$0  Cycle	23,400
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA	39,700  39,700  Pe	rsonnel Non \$0	Personnel F	Revenues \$0 Amount in	Expenditure  Life  Amou	res/(Revenues) \$0  Cycle  Int in Study:  Int Incl HST	23,400 39,700
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	39,700  39,700  Pe  MPACT  ALLS	rsonnel Non \$0	Personnel F \$0 Year Amount	Revenues \$0 Amount in	Expenditure  Life  Amou	res/(Revenues) \$0  Cycle  nt in Study:	23,400
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	39,700  39,700  Pe  MPACT  *Explain if there is	rsonnel Non \$0	Personnel F \$0  Year Amount  year and/or cost:	Revenues \$0 Amount in	Expenditure  Life  Amou	res/(Revenues) \$0  Cycle  Int in Study:  Int Incl HST	23,400 39,700
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	39,700  39,700  Pe  MPACT  *Explain if there is	rsonnel Non \$0	Personnel F \$0  Year Amount  year and/or cost:	Revenues \$0 Amount in	Expenditure  Life  Amou	res/(Revenues) \$0  Cycle  Int in Study:  Int Incl HST	23,400 39,700
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	39,700  39,700  Pe  MPACT  *Explain if there is	rsonnel Non \$0	Personnel F \$0  Year Amount  year and/or cost:	Revenues \$0 Amount in	Expenditure  Life  Amou	res/(Revenues) \$0  Cycle  Int in Study:  Int Incl HST	23,400 39,700
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	39,700  39,700  Pe  MPACT  SEE Explain if there is	rsonnel Non \$0	Personnel F \$0  Year Amount  year and/or cost:	Revenues \$0 Amount in	Expenditure  Life  Amou	res/(Revenues) \$0  Cycle  Int in Study:  Int Incl HST	23,400 39,700
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name  DCA and/or Life Cycle	39,700  39,700  Pe  MPACT  SEE Explain if there is	rsonnel Non \$0	Personnel F \$0  Year Amount  year and/or cost:	Revenues \$0 Amount in	Expenditure  Life  Amou	res/(Revenues) \$0  Cycle  Int in Study:  Int Incl HST	23,400 39,700



Page 683 **TO** 8

_/	2020 DDO	IDOT I	7777777	NC DECLIEST EC	DIA		8	
<b>M</b> ARKHAM	2020 PROJ	IECI F	UNDI	NG REQUEST FO	N N	umber:	20	171
 Project Name: <b>Unionville</b>	e Train Station 1	HVAC R	Replacem	nent	Project (	Cost:	\$11,	000
			<b>F</b>			Repair	/Replac	e
Commission: Community				١	Jseful Life:	15	Pre Ap	proval:
Department: Recreation	Services			Category:	Minor		1.	L
Project Mgr: Scott Hill				Cost Validation:		, ostimata		
Ward(s): $CW \square 1 \square$	2 3 🗸 4 🗆							
5 🗆	6 7 8			Requirement Validation:	Condition a	assessmer	II.	
ETAILED DESCRIPTIO	N (SCOPE OF P	PROJECT	T):					
UILDING MARKHAM'	S FUTURE TOG	ETHER:	Safe &	Sustainable Community				
ROJECT COSTS (\$)	2020	<u>Future</u>	Phases	NOTES Existing HVAC system v				
Cost/Quote:	10,800		0	assessment of the unit inc				
Internal Charges:	0		0	amount requested is cons Study update.	istent with th	ie 2019 L	ne Cyci	e Reserve
External Consulting:	0		0					
Sub Total:	10,800		0					
HST Impact:	190		0					
Total Project Cost:	11,000		0					
URCE(S) OF FUNDING	<u>G (\$)</u>			Components				
nding Type	Budget					<u>T(</u>	<u>)TAL</u>	Future Phases
erating Funded Life Cycle	11,000		0	0 0		0	0	(
TOTAL FUNDING	11,000						0	
PERATING BUDGET I	MPACT Pe	ersonnel		ersonnel Revenues	Expenditu		enues)	
		\$0	\$	\$0		\$0		

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
VALUE IN SECULIARIES	\$0	\$0	\$0	\$0	

DCA/LIFE CYCLE DETAILS

<u>DCA</u>			Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Studen	20, 600
			_	Amount in Study:	20,600
				Amount Incl HST	11,000
				Year in the study	2020
DCA and/or Life Cycle: Explain if the	ere is a change in the year an	d/or cost:			
HVAC \$11k, Flooring \$11k					



Page 685 **3 9 3**Number: 20172

(1) 11 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1						
Project Name: Unionville	e Train Station V	Wood Floor Refu	ırhishment	<b>Project Cost:</b>	\$11,0	)00
		7 TOOL 1 TOOL REIL		Repai	ir/Replace	
Commission: Community			1	Useful Life: 15	Pre App	roval: $\square$
Department: Recreation	Services		Category:	Minor		
Project Mgr: Scott Hill		<u> </u>	Cost Validation:	Third party estimate	e	
	2 3 2 4		Requirement Validation:	Condition assessme	ent	
5 L.  DETAILED DESCRIPTION	6 7 8 8					
This project is to refurbish we countersunk manually then the	ood flooring at the	Unionville Train S sanded and refinish	ed.	inal 3" thick barn boa	rd. The na	uils will be
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Safe &	Sustainable Community			
PROJECT COSTS (\$)	2020	Future Phases	NOTES	11 11 1000	1. 1.	
Cost/Quote:	10,800	0	Existing wood flooring was A condition assessment of	of the flooring indicat	es refurbis	shment is
Internal Charges:	0	0	warranted. There is 1,090			
External Consulting:	0	0	Included in the replacem $(1,090 \times 10.10 \text{ sqft} = \$11)$			
Sub Total:	10,800	0	with the 2019 Life Cycle			
HST Impact:	190	0				
Total Project Cost:	11,000	0				
SOURCE(S) OF FUNDING	<u>G (\$)</u>		Components			Entres
Funding Type	<u>Budget</u>			<u>T</u>	OTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	11,000	0	0 0	0	0	0
TOTAL FUNDING	11,000				0	0
OPERATING BUDGET I	MPACT Per	rsonnel Non Pe	rsonnel Revenues	Expenditures/(Rev	venues)	
OLEKATING BUDGET I	MIACI	\$0 \$	0 \$0	\$0		
DCA/LIFE CYCLE DETA	ILS					
<u>DCA</u>		Yea	Amount in ar Amount Study	<u>Life Cycle</u>		
Name		1 6	ar Amount Study	— Amount in St	udy:	20,600
				Amount Incl I	HST	11,000
				Year in the st	tudy	2020
DCA and/or Life Cycle	: Explain if there is	a change in the yea	ar and/or cost:			
HVAC \$11k, Flooring \$	11k					



Page 687 668

HAM	2020 PROJECT FUNDING REQUEST FORM	Number:	20173	<b>7</b> 3
. <b></b>	Pro	oject Cost:	\$16,700	

VIAKKHAM				N	umber	: 20	173
Project Name: Water St	waat Camian Cant	Fa aili4 I		Project	Cost:	<b>\$16</b> ,	700
Project Name: Water Str		re Facility Impr	ovements		Repa	ir/Replace	e
Commission: Community	& Fire Services			Useful Life:	30	Pre Ap	proval:
Department: Recreation	Services		Category				
Project Mgr: Bob Bell		• •					
Ward(s): $CW \square 1 \square$	2 □ 3 □ 4 ✔		Cost Validation				
5 🗆	] 6□ 7□ 8□		Requirement Validation	Condition	assessme	ent	
DETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):					
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Safe &	Sustainable Community				
PROJECT COSTS (\$)	<u>2020</u>	Future Phases	NOTES  The existing flagpole an	d interlock n	atio was	installed i	in 1990 Δ
Cost/Quote:	16,400	0	condition assessment of	the space ind	licates re	placemen	t is
Internal Charges:	0	0	warranted. Interlock pat				
External Consulting:	0	0	uneven surfaces which c the Senior Centre. The a				
Sub Total:	16,400	0	2019 Life Cycle Reserve			Jiisistent v	vitil the
HST Impact:	289	0					
Total Project Cost:	16,700	0					
OURCE(S) OF FUNDING (\$)			Components				E4
unding Type	<u>Budget</u>				1	TOTAL	<u>Future</u> <u>Phases</u>
perating Funded Life Cycle	16,700	0	0 0		0	0	C
TOTAL FUNDING	16,700					0	0

SOURCE(S) OF FUNDING (S	<u> </u>		Compon	ents			Eutumo
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	16,700	0	0	0	0	0	0
TOTAL FUNDING	16,700					0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

#### **DCA/LIFE CYCLE DETAILS**

DCA	Year	Amount	Amount in	<u>Life Cycle</u>	
Name	1 ear	Amount	Study	Amount in Study:	103,400
				Amount Incl HST	16,700
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

Life Cycle includes: Interlock and Flagpole \$16.7k (reduced from \$57k) , Ceiling Tile \$40.4k (deferred), Dishwasher \$6k (deferred)



Page 689 **397**Number: **20174** 

			Project C	ost:	\$55,000
roject Name: C	Customer Service Improvement (E-Resources)		ū	-	Asset/Expansion
Commission: C	Community & Fire Services	Ţ	Jseful Life:	7	Pre Approval:
Department: Mar. Project Mgr. C	Markham Public Library	Category:		,	Tie ripprovan
, , ,	N ✓ 1 □ 2 □ 3 □ 4 □	Cost Validation:	Recent awar	ds	

#### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

5 6 7 8

To support the purchase of additional e-books and digital audiobooks, which are in very high demand and whose circulation increased by 50% in 2018. Publishers' utilization of restrictive service models and high pricing continues to jeopardize the ability of Canadian public libraries to provide universal access to content. While the City of Markham recognized this issue by providing additional support for the purchase of e-resources (2015-2019), the Library Board is requesting a continuation of that support as the issues remain unresolved. The pricing issue with eBooks continues to be a huge issue for libraries in providing equitable access to books for the community. The Canadian Urban Libraries campaign "Accessing Digital Publications" has been launched to extend public library outreach to municipal and federal political leaders in an effort to attract attention, gain public support, and advocate for solutions that can assist public libraries in accessing digital publications.

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Engaged, Diverse & Thriving City

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	54,000	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	54,000	0
HST Impact:	950	0
Total Project Cost:	55,000	0

#### **NOTES**

The cost of eBooks can be 5 times that of print books, which average \$29 per item. The lower value of the CAD has impacted MPL's ability to purchase eBooks, which are priced in USD. This combination of escalating demand and high cost reinforces the need for additional funding. Project cost of \$54,000 is based on \$40K USD at an exchange rate of 1.35

Requirement Validation: Condition assessment

Life-cycle impact: The materials require replacement 3 times over 25 years (based on 7-year useful life) at \$158,400.

SOURCE(S) OF FUNDING (\$)		Components							
Funding Type	Budget	E-resources				TOTAL	<u>Future</u> <u>Phases</u>		
Tax	55,000	55,000	0	0	0	55,000	0		
TOTAL FUNDING	55,000				=	55,000			

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
OPERATING BUDGET IMPACT	\$0	\$0	\$0	\$0

DCA/LIFE CYCLE DETAILS

| DCA | Year | Amount in Study | Amount in Study | Amount in Study | Amount Incl HST | Year in the study | DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 691 <b>399</b>
20175

\$19,300

**Number: 20175** 

Project Name: Heritage (	Garbage Enclosu	ıre (Unionville I	Library)			New Asset/E	xpansion	
Commission: Community	& Fire Services			IJ	seful Life:		pproval:	
Department: Markham Public Library			Category: Minor					
Project Mgr: Jason Vasil	aki		Co	st Validation:		er review		
Ward(s): $CW \square 1 \square$	2 □ 3 🗸 4 □			nt Validation:				
5 🗆	6□ 7□ 8□		Requiremen	t vandation.	Condition	assessment		
DETAILED DESCRIPTIO								
Purchase & installation of a recycle Currently, garbage and recycle through facility improvements BUILDING MARKHAM'S	eling containers are t, enhanced propert	lined up along the cy appearance that i	laneway outsi	de of the build ith community	ing. Project	will address loc	al needs	
PROJECT COSTS (\$)	2020	Future Phases	NOTES	1	61	'11' · 1	1.1	
Cost/Quote:	19,000	0				uilding to house rrent situation ha		
Internal Charges:	0	0	complaints	from adjacent	residential p	roperty owners	and is	
External Consulting:	0	0				space inside bui t/grading (\$3K)		
Sub Total:	19,000	0	base/slab or	n grade (\$6K),	enclosure si	apply (\$4K) and		
HST Impact:	334	0	(\$6.3K). Es	timates provide	ed by Asset	Management.		
Total Project Cost:	19,300	0						
SOURCE(S) OF FUNDING	<u>; (\$)</u>		Comp	onents			Endano	
Funding Type	<b>Budget</b>	Enclosure supply	Installation	Permit/gradi	ng <u>Slab/gran</u>	ular base TOTAL	<u>Future</u> <u>Phases</u>	
Tax	19,300	4,000	6,300	3,000	6,000	19,300	0	
TOTAL FUNDING	19,300					19,300	0	
OPERATING BUDGET II	мраст Рег	sonnel Non Pe	rsonnel I	Revenues	Expenditu	res/(Revenues)		
OLEKATING BUDGET II	MIACI	\$0 \$	0	\$0		\$0		
DCA/LIFE CYCLE DETA	ILS							
<u>DCA</u>				Amount in	<u>Life</u>	Cycle		
Name		Yes	ar Amount	Study	- Amou	int in Study:		
					Amou	nt Incl HST		
						in the study		
DCA and/or Life Cycle:	Evaloin if there is	a abanga in the way	or and/or agets		1001			
DCA and/or Life Cycle.	Explain if there is	a change in the yea	a and/or cost.					



Number:	20176
---------	-------

Project Name: Library Collections		Project Cost:		\$2,796,600	
Commission: Community & Fire Services			Repa	ir/Replace	
Department: Markham Public Library Project Mgr: Catherine Biss	Category:	Useful Life: Annual	7	Pre Approval:	
Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □	Cost Validation:			ent	
ETAILED DESCRIPTION (SCOPE OF PROJECT):					

#### D

Collections are the Library's main product and are used heavily by the public, which expects currency. This requires ongoing acquisition of new materials, including those in print and non-print formats and non-English language materials, which are in high demand in Markham. In a 2016 survey of 1,400 residents, 97% indicated that it was important that MPL provides books and valued borrowing materials as the #1 Library service.

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	2,748,208	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	2,748,208	0
HST Impact:	48,368	0
Total Project Cost:	2,796,600	0

#### NOTES

Preliminary allocations (incl. processing): Books & Subscriptions \$970K/ Audio-visual \$365K/ French \$25K/ Multilingual \$300K/ Microfilms \$3.6K/ Periodicals \$100K/ Electronic Resources \$760K/ Processing Supplies \$230K. Figures subject to revision based on material availability, customer needs & final Library review. 25% of funding (excl. processing costs) devoted to non-English materials (i.e. Multilingual, French). Cost for replacement of existing E-Resources (when invoiced in USD) based on exchange rate of 1.35. The pre-approval request is \$1,598,200.

SOURCE(S) OF FUNDING	(\$)		Compone	ents			Entuno
Funding Type	<u>Budget</u>	Collection				TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	2,796,600	2,796,600	0	0	0	2,796,600	0
TOTAL FUNDING	2,796,600					2,796,600	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

#### **DCA/LIFE CYCLE DETA**ILS

<u>DCA</u>	<b>X</b> 7		Amount in	<u>Life Cycle</u>	
Name	Year 1	Year Amount Study		Amount in Study:	2,753,400
				Amount Incl HST	2,796,600
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

The life cycle amount is based on the latest Library collections contract and is consistent with the 2019 Life Cycle Reserve Study; USD exchanged rate updated from 1.30 to 1.35 based on June 2019 forecast.

#### 2020 LIBRARY COLLECTIONS CAPITAL BUDGET SUBMISSION - SUPPORTING INFORMATION

#### The Library's Business Model for Material Selection:

MPL's business model for material selection is designed to achieve the following outcomes:

- Strong ROI on funding dollars, respecting the tax-payer's investment in library services;
- Strong library collections as a fundamental element in library service;
- Leveraging outsourcing of materials processing, cataloguing and selection in order to reduce staffing costs;
- Anticipating and meeting customer needs as determined by analysis of data regarding usage, trends and consumption of content, and broader trends in the publishing, retail, and public sectors;
- Alignment with the diversity of Markham's socio-demographic structure including age cohorts, language needs and preferences, and learning and leisure pursuits;
- Sector leading performance in Key Performance Indicators, including circulation per capita, collection turnover, materials as percentage of total expenditures, and visits per capita;
- Efficient use of funding dollars through a system wide approach to selection, eliminating overlap and duplication amongst the branches;
- Leveraging of alternative sources of content (i.e. online content and interlibrary loan) to satisfy long tail (non-mainstream) needs;
- High levels of use through aggressive targets for percentage of materials checked out at any
  given time. We want library materials to be in the hands of customers, enriching lives,
  supporting education and developing a stronger, more literate workforce.

#### **Depth and Breadth of Library Materials:**

Like all public library systems in Canada, MPL's collection policy defines the library mandate to meet the diverse information and knowledge needs of Markham residents through a collection that provides an appropriate balance of depth and breadth; meeting anticipated and expressed individual and community needs.

- **Bestsellers vs. Backlist**: Like bookstores, library "stock" includes both current bestsellers and backlist (older books still in print) items that are in demand by library customers
  - Backlist would include materials such as classics of children's literature
    - Classic board books and picture books for babies and pre-schoolers (Goodnight Moon, Brown Bear, Brown Bear, What Do You See?)
    - Series fiction for school aged children (Diary of a Wimpy Kid, Dork Diaries, Geronimo Stilton, etc.)
    - Classic children's fiction for school aged children (Harry Potter, Anne of Green Gables, Treasure Island)
    - Curriculum related materials (children's non-fiction books on Lands & People, Science, Technology and Math, Social Studies, etc.)
  - Backlist materials for teens such as popular teen fiction series and classics
    - Popular teen fiction (Twilight, Divergent, The Hunger Games, The Giver, etc.)\
    - Curriculum related non-fiction (materials to support Independent Study Units)
    - Classic literature (Margaret Atwood, William Shakespeare, Harper Lee, William Golding, F. Scott Fitzgerald, etc.)
  - o Backlist materials for adults such as classic literature, series fiction and non-fiction
    - Backlist of popular authors (James Patterson, Sue Grafton, Stephen King)

- Backlist non-fiction (Health & Wellness, Travel, Food & Drink, Business and Financial Investments, Computers, Home & Garden, etc.)
- Genre fiction (Romance, Mysteries, Horror, Fantasy, etc.)
- Backlist materials for senior adults
  - Large print (popular fiction and non-fiction titles)
  - Audiobooks
- **Linguistic Diversity:** An additional challenge for Markham, in the context of the City's high level of linguistic diversity, is to allocate adequate funding to the demand for multilingual materials in each service area.
- **Customer Purchase Suggestions:** Appropriate response to purchase suggestions by Markham residents where they meet the Library's selection criteria including ensuring that the item would be of interest of other Markham residents.
- **Fiscal Responsibility**: Our collection policy excludes purchasing niche or scholarly materials, ensuring that MPL"s collection appeals to the general public and not for niche interests (we try to meet these needs through Interlibrary Loans or online databases).

#### **ESTIMATED BUDGET BREAKDOWN**

Books & Subscriptions	\$970,000
Audiovisual	\$365,000
French Books	\$25,000
Multilingual	\$300,000
Microfilms	\$3,300
Periodicals	\$100,000
eResources	\$732,000
Processing & Supplies	\$229,000

#### **CIRCULATION IN 2018 VS 2017**

Circulation	2018	2017	%+/-
Physical Circulation	4,905,019	4,490,568	9.2
Digital Circulation (eCirc)	555,728	370,779	49.9
Total Circulation (incl. eCirc)	5,460,747	4,861,347	12.3

#### **CUSTOMER SATISFACTION WITH COLLECTIONS:**

• The number one reason for Markham residents using the library is for its collection as they continuously state in all surveys. As you can see from the chart below, our customer expectations of the content MPL provides exceeds their actual satisfaction with the collection.

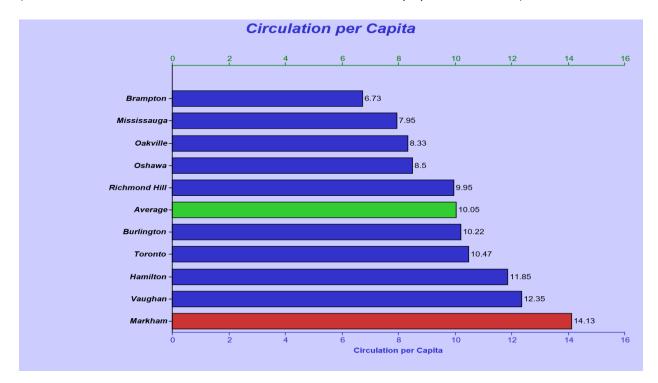
Performance Indicator	2018
Importance	9.26/10
Satisfaction	7.88/10
Gap	1.38

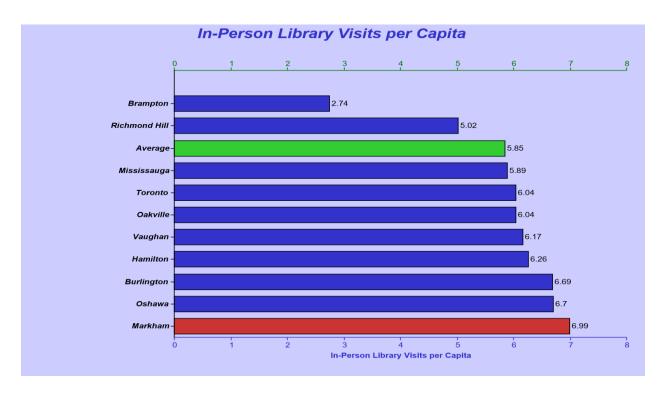
#### LANGUAGES COLLECTED:

• English, French, Arabic, German, Greek, Gujarati, Hebrew, Hindi, Italian, Korean, Persian, Panjabi, Russian, Spanish, Tagalog, Tamil, Urdu, and Chinese.

#### **KEY PERFORMANCE INDICATORS**

(Based on the latest 2017 statistics submitted to Ontario Ministry by Public Libraries)







Project Name: Library Furniture, Equipment & Shelving Replacement

Page 699**407** 

\$143,800

			, <b>F</b>			Repair/Replace	ee
Commission: Community				Į	Jseful Life:	7 Pre Ap	proval:
Department: Markham P	<del>-</del>			Category:		1	-
Project Mgr: <u>Catherine B</u>			Cos	t Validation:		ectimate	
Ward(s): $CW \checkmark 1$	2 🗆 3 🗆 4 🗆			t Validation:			
5 🗆	6□ 7□ 8□		Requiremen	t vandation.	Condition as	ssessment	
ETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):					
o replace furniture/shelving cilities and operations. The ghly attractive place in whi	e public library is a ch to live, work an	high use municipal d study.		s valued by th	e community		
ROJECT COSTS (\$)	2020	Eutumo Dhogog	NOTES				
	<u>2020</u>	Future Phases	This is an ar			will be requeste	
Cost/Quote:	141,331	0				cement of publi for various loca	
Internal Charges:	0	0				orogram/study r	
External Consulting:	0	0	(\$20K), mol	oile shelving (	(\$35K). 3 yea	r average spend	plus CPI is
Sub Total:	141,331	0			consistent with	h the 2019 Life	Cycle
HST Impact:	2,487	0	Reserve Stu	ay update.			
Total Project Cost:	143,800	0					
OURCE(S) OF FUNDING	<del>; (\$)</del>		Comp	onents			<b>-</b>
anding Type	<u>Budget</u>	<u>Furniture</u>	Shelving			TOTAL	Future Phases
perating Funded Life Cycle	143,800	108,800	35,000	0	0	143,800	(
TOTAL FUNDING	143,800					143,800	(
PERATING BUDGET IN	MPACT Per	rsonnel Non Per		evenues	-	res/(Revenues)	
	ше	\$0 \$0	)	\$0		\$0	
CA/LIFE CYCLE DETA DCA	11.5	<b>X</b> 7		Amount in	<u>Life</u> (	<u>Cycle</u>	
Name		Yea	r Amount	Study	– Amou	nt in Study:	143,800
					Amour	nt Incl HST	143,800
						in the study	2020
DG4 1/ 1/6 G 1	E 1: :6:1	1	1/		1 car	in the study	2020
DCA and/or Life Cycle:	Explain II there is	a change in the yea	r and/or cost:				
į							



Ward(s):

Project Mgr: Catherine Biss

## 2020 PROJECT FUNDING REQUEST FORM

Page 701**409**Number: 20178

		Project Costs	Φ <b>=1 3</b> 00
Project Name:	Markham Centre Library - Phase 1 of 2	Project Cost:	\$71,200
Commission:	Community & Fire Services		v Asset/Expansion
Department:	Markham Public Library	Useful Life: 0	Pre Approval:

Category: Minor

Cost Validation: Third party estimate

Requirement Validation: Other(specify in Notes)

#### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

CW □ 1□ 2□ 3 ✓ 4□

Conduct a feasibility and functional study and a community consultation process to determine the location, and size of a Library for Markham Centre which was recommended in the 2010 ILMP.

The City will be undertaking a new provision model for community facilities within high density areas of the City and this project will enable staff to explore partnership opportunities to undertake the new Neighbourhood Centre starting in Markham Centre. The consultant will assist with exploring appropriate square footage needed for the new model for library and recreation services. The work will also involve consultation with current residents within Markham Centre on functions, locations and services.

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Engaged, Diverse & Thriving City

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	0	0
Internal Charges:	0	0
External Consulting:	70,000	70,000
Sub Total:	70,000	70,000
HST Impact:	1,232	1,232
Total Project Cost:	71,200	71,200

#### NOTES

Total cost for Phase 1 and 2 is \$140,000. Cost is based on number of architectural consultant hours allocated to the southeast community consultation multiplied by consultant's hourly rate. Approximate hourly rate of consultant is \$214, and approximate number of consultant hours for this 2 year project is 656.

SOURCE(S) OF FUNDING (\$)			Compon	ents			E-4
Funding Type	Budget	Consulting				TOTAL	<u>Future</u> <u>Phases</u>
DCA	64,080	64,080	0	0	0	64,080	64,080
Non-DC Growth	7,120	7,120	0	0	0	7,120	7,120
TOTAL FUNDING	71,200				=	71,200	71,200

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	<b>Expenditures/(Revenues)</b>
OLEMATING BUDGET IVITACI	\$0	\$0	\$0	\$0

Page 702 **4 40** 

## **DCA/LIFE CYCLE DETAILS DCA** Life Cycle Amount in Year Name **Amount** Study Amount in Study: Amount Incl HST Year in the study DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

## **Subject Title: 2020 Capital Budget Submission - Markham Centre Library, Phase 1 of 2**

#### Purpose/Background

To provide preliminary information regarding Markham Public Library's request for capital funding to conduct a feasibility and functional study and a community consultation process to determine the location, and size of a Library for Markham Centre which was recommended in the 2010 ILMP. The City will be undertaking a new provision model for community facilities within high density areas of the City and this project will enable staff to explore partnership opportunities to undertake the new Neighborhood Centre starting at Markham Centre. The consultant will assist with exploring appropriate square footage needed for the new model for library and recreation services. The work will also involve consultation with current residents within Markham Centre on functions, locations and services.

#### **Discussion**

1. The 2010 Integrated Leisure Master Plan included the following recommendation:

71D: Establish a library branch (approximately 20,000 ft²) to serve the growing Markham Centre community (Area A) in or around 2019. This branch may form part of a mixed-use development; partnership and non-traditional development approaches should be considered.

Recommended direction of the draft 2019 ILMP Update is to develop different provision models with a focus on integration with other service providers and within development plans early in the process to capitalize on cost sharing opportunities.

2. The 2017 Development Charges Background Study identified a funding amount of \$13,962,160 (DC Eligible Cost) for a 20,000 sq. ft. public library in Markham Centre in 2021.

#### **History**:

Meetings with Planning Department throughout, 2018/2019
 Over the course of the development of the 2019 ILMP meetings were held with Planning staff, Markham
 Public Library and Community & Fire Services regarding opportunities for a Markham Centre library facility
 and co-located flexible space for other community services

Planning staff identified potential opportunities in upcoming phases/development blocks of Markham Centre's Mixed-Use developments near the Birchmount/Enterprise intersection.

2. Meeting with Planning Department and Remington Group 2018 Planning staff organized a meeting with representatives of Remington Group to discuss opportunities for a library / community space within one of their buildings. Remington was keen to work with the City and proposed a location for a 9,000 sf ground-level library branch on the southwest corner of the intersection of the future Post Road and Simcoe Promenade. Timing for the completion of the Remington building was anticipated for 2023.

#### Site Analysis:

The following site benefits were discussed:

• Close proximity to mixed-use developments would allow the library to serve both residents and the business community in Markham Centre.

- A VivaNext station will be located on Simcoe Promenade directly outside the proposed library space, supporting access by public transportation.
- The location supports the achievement of a walkable "complete community" by adding a public service facility to the mix of jobs, local stores and services in Markham Centre, thereby providing opportunities for people of all ages and abilities to conveniently access most of the necessities for daily living.
- Located on a busy pedestrian street, and at ground level, to be highly visible and easily identifiable from the street, and to contribute to street-level activity and vibrancy.
- 3. Alignment of the ILMP to the Secondary Planning Process for Markham Centre. Staff discussed aligning the Markham Centre Secondary Plan process that commenced in 2018 to ILMP Update that was to be completed by end of 2018. Planning & CFS agreed to work on a collaborative process to guide the provision of parks, recreation and library facilities in Markham's Areas of Intensification. Based on the timing of these parallel processes, staff discussed the need to focus on the upcoming Markham Centre Secondary Plan, i.e. to advance the ILMP principles regarding Areas of Intensification through their development as part of the Secondary Plan revision and determine innovative approaches and policies to guide the future delivery of community services in Markham's urban areas. This could be a potential case study within the overall framework of the ILMP and the Secondary Plan process.

#### Rationale for Project:

The 11,000 residents currently living in the 4,618 households (typically small condo units) of the high-density Markham Centre area do not currently have access to any walkable, accessible, inclusive indoor all-season public community space (e.g. space for community gathering, community meetings, etc.). This results in low levels of social interaction with neighbours, hinders the development of community cohesion, diminishes resident retention and stability, and potentially elevates risks of social isolation.

Potential components of library space program to address above:

- Family space for the 1,300 children aged 0 to 14 living in Markham Centre and their caregivers. A place for early literacy development and homework support.
- Meeting/social space for the 79.84% of households residing in apartment buildings.
- Study/social space for the students (including many international students) residing in Markham Centre.
- Informal, drop-in, casual gathering and meeting space for all ages.
- Digital collaboration hub.
- Components to be tested/validated/modified through the community consultation process.
- Implementation in Markham Centre of the strategic direction contained in Building Markham's Future Together (BMFT) Goal 2 Engaged, Diverse and Thriving City (Strategic Objectives 2.1 Increasing Community Engagement; and 2.2 Ensuring Markham is Welcoming and Inclusive) for the Markham Centre neighbourhood.
- It represents an investment in the social infrastructure required to keep the City strong, livable and a great place to live, work, learn, play and invest. It also contributes to quality of life that attracts and retains diverse and talented residents, supports a community-wide commitment to lifelong learning, and advances Markham's future prosperity in the rapidly growing creative and knowledge-based economy.
- The project implements 2010 approved Integrated Leisure Master Plan (ILMP) recommendation 71d. "Establish a library branch (approximately 20,000 ft²) to serve the growing Markham Centre community (Area A) in or around 2019. This recommendation was also included in the 2019 ILMP Update with the focus on partnership and non-traditional development approaches.

### Capital Project Scope - Two-year project:

- 2020: Two key components:
  - O Conduct a comprehensive community consultation process to confirm and ensure the space needs meet the needs of this community within the context of a vibrant downtown area. Identify needs and priorities for residents living and working within Markham Centre. What are their expectations for community services including preferences for where it should be located.
  - o To secure a location working with the development community that aligns to the ILMP's new neighbourhood centre approaches that are fully integrated into the built form of an urban focused neighbourhood embedded within where residents live and work.
- 2021: Develop concept design options based on work done in 2020 and following the confirmation of a final location.

Distributed To:	Brenda Librecz, Jemima Lee
Prepared By:	Michelle Sawh
Contact Person	Catherine Biss
Date Prepared:	August 22, 2019
Approved By:	Catherine Biss

Template last revised: 2012-Oct-17



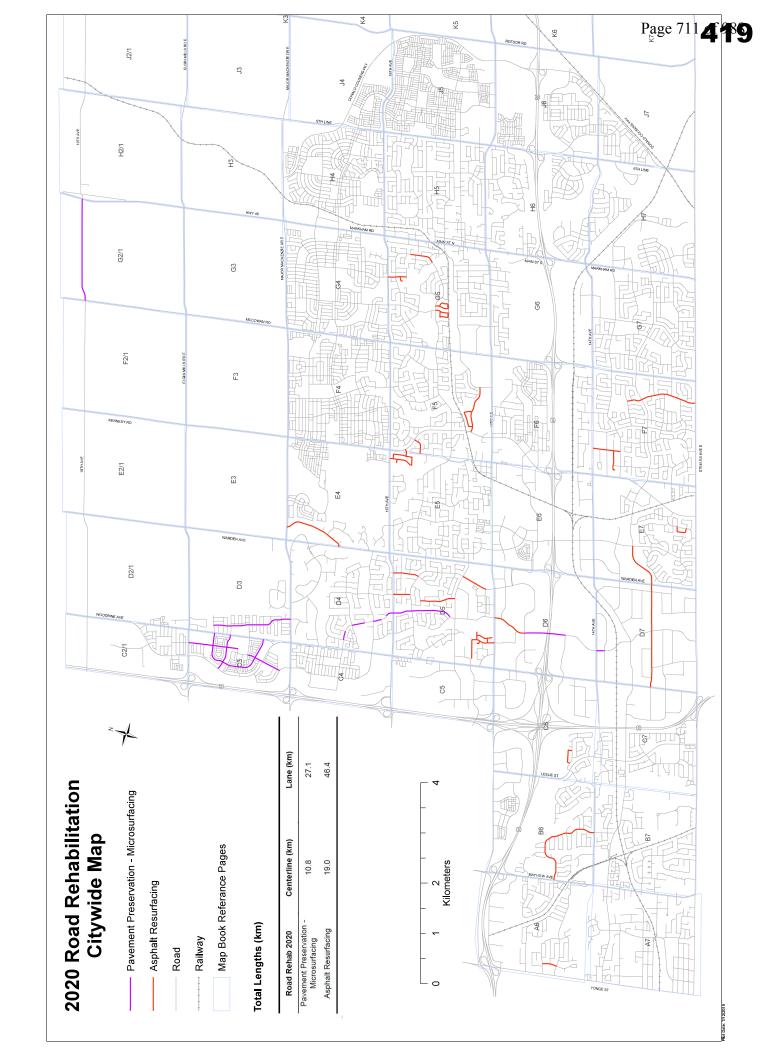
Page 707 4 4 5

U <b>Y</b> IAKKHAM			~	N	umber:	20	179	
Project Name: Asphalt I	Resurfacino			Project (	Cost:	\$6,873	3,800	
					Repair	r/Replace	e	
Commission: Communit				Useful Life:	20	Pre App	proval: $\square$	
Department: Operations			Category	Minor				
Project Mgr: Zoyeb Val			Cost Validation		ırds			
	2 3 4 4		Requirement Validation:			nt		
5 L <b>DETAILED DESCRIPTIO</b>	6 7 8		1					
overall goal is to maintain a designed to extend pavemer testing, route and seal, steel BUILDING MARKHAM	nt life and reduce ov , and AC index. Var	rerall maintenance or rious strategies are	costs of the road network. (	Other work inc	cludes int	terlock, r		
PROJECT COSTS (\$)	2020	Future Phases	NOTES Asphalt Resurfacing of a	nnrovimotoly	10km of	f two lon	a and four	
Cost/Quote:	6,667,470	0	lane roads. 9km of two lane					
Internal Charges:	89,002	0	is comparable to last year					
External Consulting:	0	0		Laser condition survey conducted bi- avement condition result shows that 74 emed good or better (target = 80%).				
Sub Total:	6,756,472	0	of the road network is de					
HST Impact:	117,347	0	Amount requested is con Study update.	sistent with th	ne 2019 I	Life Cycl	e Reserve	
Total Project Cost:	6,873,800	0	Study aparte.					
SOURCE(S) OF FUNDIN	<u>G (\$)</u>		Components				Futuro	
Funding Type	<u>Budget</u>				<u>T(</u>	<u>OTAL</u>	<u>Future</u> <u>Phases</u>	
	0	0	0 0	(	0	0	0	
Gas Tax	6,873,800	0	0 0	(	0	0	0	

TOTAL FUNDING 6,873	3,800			0	
OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	

\$0 \$0 \$0 \$0    So   So   So   So   So   So   So   S	\$0 \$0 \$0 \$0  CLE DETAILS  Year Amount in Study  Amount in Study:  Amount Incl HST	RATING BUDGET IMPACT	1 CI SOIIIICI	1 ton 1 crooms	er remacs	Emperiarear est (Te veriaes)
Name  Amount in Study  Amount in Study  Amount in Study:  Amount Incl HST	Amount in Study  Amount in Study  Amount in Study:  Amount in Study:  Amount Incl HST  Year in the study	MITHIO DODGET HITHOI	\$0	\$0	\$0	\$0
Year Amount Study Amount in Study: Amount Incl HST	Year Amount Study  Amount in Study:  Amount Incl HST  Year in the study	LIFE CYCLE DETAILS				
Amount in Study:  Amount Incl HST	Amount in Study:  Amount Incl HST  Year in the study	<u>DCA</u>			Amount	in <u>Life Cycle</u>
Amount Incl HST	Amount Incl HST Year in the study	Name		Year A	amount Study	Amount in Study:
	Year in the study					,
Year in the study	·					
	r Life Cycle: Explain if there is a change in the year and/or cost:					Year in the study

Project	Asphalt Resurfacing
2020 Capital Request	\$6,873,800
Funding Source	Life Cycle Reserve
Description of Program	
	Asphalt resurfacing of roads throughout the City utilizing a pavement management program to select rehabilitation candidates. The
	overall goal is to maintain an acceptable pavement condition index and user satisfaction by implementing cost effective strategies
	designed to extend pavement life and reduce overall maintenance and reconstruction costs of the road network.
Project Rationale	
	Condition assessment is conducted bi-annually to determine specific locations. This is followed by a detailed visual inspection by
	Operations staff which verifies the laser condition assessment. Identified in the Life Cycle Reserve Study.
Legislative Requirement	O. Reg. 239/02: Minimum Maintenance Standards for Municipal Highways outlines patrol and maintenance requirement related to
	roadway infrastructure inclusive of asphalt pavement and sidewalk.
	\$460K was added to the 2019 life cycle study for 2020 AC Index premium due to forecasted increase to the Asphalt Cement Index for
	2020. \$265K and \$350K were added to the 2018 and 2019 Asphalt Resurfacing Programs respectively for the higher than anticipated AC
	premiums. The asphalt resurfacing contract will be renewed in 2021, at which point a new base will be established for the AC premium
History	calculation.
Future Phases	This funding is requested each year.
Total Project Cost	n/a
Related Projects	Parking Lot Rehabilitation, Localized Repairs – Concrete/Asphalt
Alignment to the Strategic Plan	Properly paved and well maintained roads help reduce accidents and promotes safe movement of traffic reducing traveling time.
	Contracts within this program call for reharvesting and recycling of construction materials. Strategies include warm mix designs which
	lowers emissions and utilizes recycled aggregate.





# Road Rehabilitation Program Concrete / Asphalt Resurfacing Pavement Preservation – Micro Surfacing Crack Sealing

<u>2020 – Proposed</u>	
Road Rehabilitation – Asphalt/Concrete	46.4 Lane Kilometers
Pavement Preservation – Micro Surfacing	27.1 Lane Kilometers
Crack Sealing	158,165 Lineal Meters
2019 – Estimated	
Road Rehabilitation – Asphalt/Concrete	38 Lane Kilometers
Pavement Preservation – Micro Surfacing	37 Lane Kilometers
Crack Sealing	158,165 Lineal Meters
<b>2018 – Complete</b>	
Road Rehabilitation – Asphalt/Concrete	43.4 Lane Kilometers
Pavement Preservation – Micro Surfacing	15 Lane Kilometers
Crack Sealing	127,000 Lineal Meters
<u>2017 - Complete</u>	
Road Rehabilitation – Asphalt/Concrete	39 Lane Kilometers
Pavement Preservation – Micro Surfacing	25 Lane Kilometers
Crack Sealing	114,000 Lineal Meters



Project Name: Boulevard Repairs

Page 715 <b>423</b>
20400

\$57,300

2020 PROJECT FUNDING REQUEST FORM **Number:** 20180

				Repair/Replace	
& Fire Services		1	Useful Life:	10 Pre Ap	proval:
- Roads				10 110114	, province
er				1	
2□ 3□ 4□			-		
6□ 7□ 8□		Requirement Validation:	Condition as	ssessment	
N (SCOPE OF P	ROJECT):				
nterlock brick pave	rs only (does not in	clude concrete, curb or aspl		rians. Repairs to	boulevards
2020	Futura Phacac	NOTES			
·					
	•				
	•				
	0				
	0				
57,300	0	Study update.		Ž	
G (\$)		Components			Endano
<b>Budget</b>	Speed Humps	Fred Varley		TOTAL	<u>Future</u> <u>Phases</u>
57,300	12,700	44,600 0	0	57,300	0
57,300 <b>57,300</b>	12,700	44,600 0	0	57,300 <b>57,300</b>	<b>0</b>
57,300		,		57,300	
57,300	rsonnel Non Pe	ersonnel Revenues	Expenditur	57,300 res/(Revenues)	
	rsonnel Non Pe	,	Expenditur	57,300	
57,300	rsonnel Non Pe	ersonnel Revenues 60 \$0	Expenditur	57,300 res/(Revenues) \$0	
	rsonnel Non Pe	ersonnel Revenues 50 \$0  Amount in	Expenditur	57,300 res/(Revenues)	
	rsonnel Non Pe	ersonnel Revenues 50 \$0  Amount in	Expenditur	57,300 res/(Revenues) \$0	
	rsonnel Non Pe	ersonnel Revenues 50 \$0  Amount in	Expenditur  Life	57,300 res/(Revenues) \$0 Cycle	0
	rsonnel Non Pe	ersonnel Revenues 50 \$0  Amount in	Expenditur  Life of Amount Amount	res/(Revenues) \$0  Cycle nt in Study:  nt Incl HST	57,300
	rsonnel Non Pe \$0 \$ Ye	Prsonnel Revenues  50 \$0  Amount in Study	Expenditur  Life of Amount Amount	res/(Revenues) \$0  Cycle  nt in Study:	57,300 57,300
	rsonnel Non Pe	Prsonnel Revenues  50 \$0  Amount in Study	Expenditur  Life of Amount Amount	res/(Revenues) \$0  Cycle nt in Study:  nt Incl HST	57,300 57,300
	rsonnel Non Pe \$0 \$ Ye	Prsonnel Revenues  50 \$0  Amount in Study	Expenditur  Life of Amount Amount	res/(Revenues) \$0  Cycle nt in Study:  nt Incl HST	57,300 57,300
	rsonnel Non Pe \$0 \$ Ye	Prsonnel Revenues  50 \$0  Amount in Study	Expenditur  Life of Amount Amount	res/(Revenues) \$0  Cycle nt in Study:  nt Incl HST	57,300 57,300
	rsonnel Non Pe \$0 \$ Ye	Prsonnel Revenues  50 \$0  Amount in Study	Expenditur  Life of Amount Amount	res/(Revenues) \$0  Cycle nt in Study:  nt Incl HST	57,300 57,300
	rsonnel Non Pe \$0 \$ Ye	Prsonnel Revenues  50 \$0  Amount in Study	Expenditur  Life of Amount Amount	res/(Revenues) \$0  Cycle nt in Study:  nt Incl HST	57,300 57,300
	2 3 4 8 8 8 8 9 9 9 1 57,300 8 9 9 1 6 (\$)	S   S   S   S   S   S   S   S   S   S	Category:  Cost Validation: Requirement Validation: Requirement Validation: Requirement Validation: Requirement Validation: Requirement Validation: Requirement Validation: Stomaintain boulevard areas in good condition to minimize hazar atterlock brick pavers only (does not include concrete, curb or asplete to be a specific part of the control of the	Category: Annual  Cost Validation: Recent awar  Requirement Validation: Condition as  N (SCOPE OF PROJECT):  To maintain boulevard areas in good condition to minimize hazards for pedest atterlock brick pavers only (does not include concrete, curb or asphalt).  SFUTURE TOGETHER: Safe & Sustainable Community    2020	Category: Annual  Cost Validation: Recent awards  Condition assessment  N(SCOPE OF PROJECT):  So to maintain boulevard areas in good condition to minimize hazards for pedestrians. Repairs to a terlock brick pavers only (does not include concrete, curb or asphalt).  SFUTURE TOGETHER: Safe & Sustainable Community  NOTES  Repairs include speedbumps on Featherstone, Raymer Moon and Riseborough. Centre island on Royal Orcha Varley, Main Street to Jeremy. Installation cost is \$42. average is \$55K (there was not a program in 2016). The annual program. There is no substantial backlog within program and the boulevards are in a state of good repair program and the boulevards are in a state of good program and the boulevar



Page 717**425**Number: 20181

_			Duoingt (	logt.	φ <b>α.ξ. 200</b>
Project Name:	Bridge Structure Preventative Maintena	nce - Roads	Project C	ost:	\$25,300
				Repai	r/Replace
Commission:	Community & Fire Services	I	Jseful Life:	30	Pre Approval:
Department:	Operations - Roads			30	Tio ripprovan.
Project Mgr:	John Hoover	Category:	Annual		
Ward(s):	CW ✓ 1□ 2□ 3□ 4□	Cost Validation:	Recent awar	rds	
,, ara(3).	CW 🗷 1 🗆 2 🗆 3 🗆 4 🗆	Requirement Validation:	Condition a	ssessme	nt

#### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

5 6 7 8

Annual preventative maintenance of the 27 City owned bridge/culvert structures on an as required basis. Work to be carried out on an as required basis which includes fill and grade bridge approaches, route and seal cracks on bridge decks, concrete sealer application, concrete patches on approach.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	Future Phases
Cost/Quote:	24,850	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	24,850	0
HST Impact:	437	0
<b>Total Project Cost:</b>	25,300	0

#### NOTES

3 yr avg \$26k. Locations to be determined upon condition assessment. Bridge structures are in a state of good repair. Operations is responsible for preventative maintenance on bridges/culverts such as minor grading, patching, sealing of bridge approaches and bridge decks, while Environmental Services is responsible for its inspection/rehabilitation and replacement. Starting 2018, this project is split into 2 separate projects, one in Roads and the other in Parks.

Amount requested is consistent with the 2019 Life Cycle Reserve

SOURCE(S) OF FUNDING (\$		Components					
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	25,300	0	0	0	0	0	0
TOTAL FUNDING	25,300				_	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$0	\$0	\$0

#### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>	Voor Amour	Amount in	Life Cycle		
Name	Year Amount	Study	Amount in Study:	50,600	
			Amount Incl HST	25,300	
			Year in the study	2020	

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

Starting 2018, this project is split into 2 separate projects, one in Roads and the other in Parks. Project request amount of \$25,300 is sufficient to carry out the work that is required.

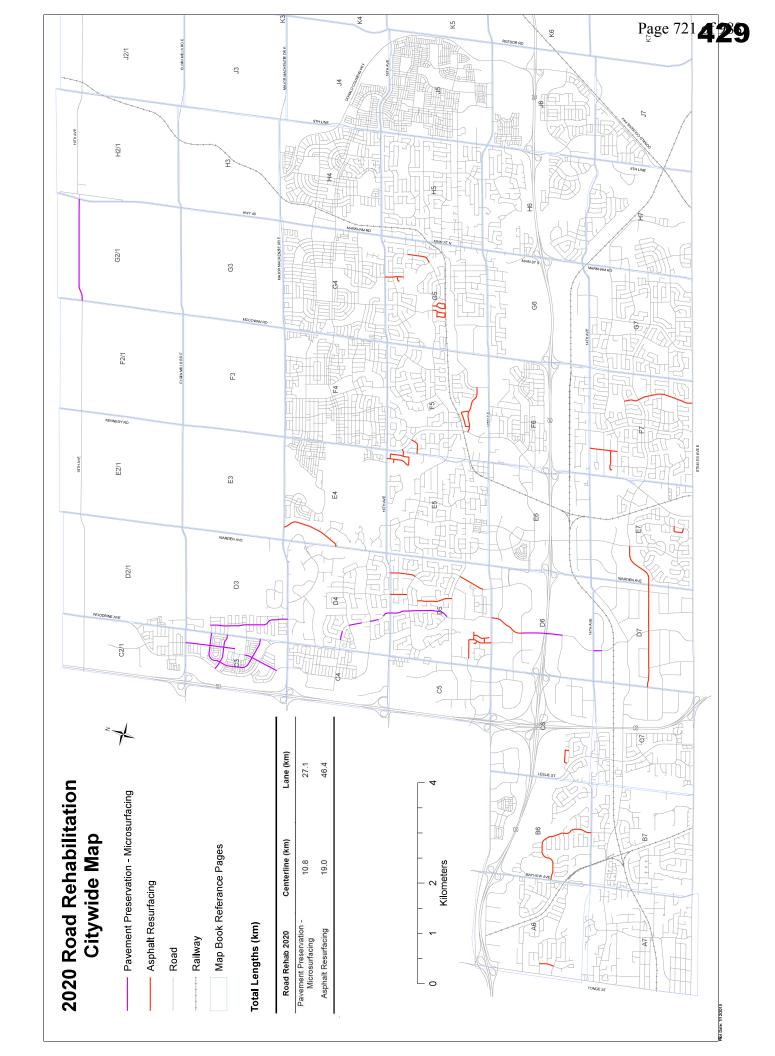


Page 719 <b>2</b>	29

\$280,800

**Number: 20182** 

					<del></del>		Repair/F	Replace	e
Commission: Community					Ţ	Jseful Life:	20 P	re Ap	proval:
Department: Operations					Category:				
Project Mgr: Stephen De	arborn/Area Super	visor		Cor	st Validation:		astimata		
Ward(s): $CW \boxed{\bullet} 1$	2 🗆 3 🗆 4 🗆								
5 🗆	6□ 7□ 8□			Requiremen	t Validation:	Condition a	ssessment		
DETAILED DESCRIPTIO	ON (SCOPE OF P	ROJECT):	;						
Maintenance and repair of er									
BUILDING MARKHAM'	S FUTURE TOGI	ETHER:	Safe & S	Sustainable Co	mmunity				
PROJECT COSTS (\$)	2020	Future P	hases	NOTES Locations for	or 2020 are Ba	arristers Com	rt and Bavy	view (	Carlton and
Cost/Quote:	275,900		0	Mansfield, O	Canning Cour	t and 14th A	ve, Markha	m Roa	ad and Bur
Internal Charges:	0		0		dy Rd and An . The City ow				
External Consulting:	0		0		n private prop				
Sub Total:	275,900		0	ownership fo	or a total inve	ntory of 331	. Staff will	be pre	senting a
HST Impact:	4,856		0	costs if appl	2019 to addr	ess replacem	ent, renabi	litatio	n and shared
Total Project Cost:	280,800		0	Amount req	uested is cons	istent with th	ne 2019 Lif	e Cyc	le Reserve
SOURCE(S) OF FUNDING	T (\$)			Comp.	onents				
	Budget			Comp	onenes		TOT	<u> </u>	<u>Future</u> <u>Phases</u>
runaing Type							101	1111	<u>r mases</u>
<del></del>			0	0	0		`	0	0
Funding Type Operating Funded Life Cycle	280,800		0	0	0	(	)	0	0
<del></del>			0	0	0	(	)	0	0 0
Operating Funded Life Cycle  TOTAL FUNDING	280,800 280,800	rsonnel	0 Non Per		0 evenues	Expenditu		0	
Operating Funded Life Cycle	280,800 280,800	rsonnel \$0		sonnel R				0	
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA	280,800  280,800  Per		Non Per	sonnel R	evenues		res/(Reven	0	
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA	280,800  280,800  Per		Non Per	sonnel R	sevenues \$0 Amount in	Expenditu	res/(Reven	0	
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA	280,800  280,800  Per		Non Per	sonnel R	sevenues \$0	Expenditure Life	res/(Reven	uues)	
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA	280,800  280,800  Per		Non Per	sonnel R	sevenues \$0 Amount in	Expenditure  Life  Amou	res/(Reven \$0 Cycle	uues)	0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA	280,800  280,800  Per		Non Per	sonnel R	sevenues \$0 Amount in	Expenditure  Life  Amou	res/(Reven \$0 Cycle ant in Study	ues)	280,800
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA  Name	280,800  280,800  Per  MPACT  ILS	\$0	Non Pers	sonnel R	sevenues \$0 Amount in	Expenditure  Life  Amou	\$0  Cycle ant in Study	ues)	280,800 280,800
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA	280,800  280,800  Per  MPACT  ILS	\$0	Non Pers	sonnel R	sevenues \$0 Amount in	Expenditure  Life  Amou	\$0  Cycle ant in Study	ues)	280,800 280,800
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA  Name	280,800  280,800  Per  MPACT  ILS	\$0	Non Pers	sonnel R	sevenues \$0 Amount in	Expenditure  Life  Amou	\$0  Cycle ant in Study	ues)	280,800 280,800
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA  Name	280,800  280,800  Per  MPACT  ILS	\$0	Non Pers	sonnel R	sevenues \$0 Amount in	Expenditure  Life  Amou	\$0  Cycle ant in Study	ues)	280,800 280,800
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA  Name	280,800  280,800  Per  MPACT  ILS	\$0	Non Pers	sonnel R	sevenues \$0 Amount in	Expenditure  Life  Amou	\$0  Cycle ant in Study	ues)	280,800 280,800
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA  Name	280,800  280,800  Per  MPACT  ILS	\$0	Non Pers	sonnel R	sevenues \$0 Amount in	Expenditure  Life  Amou	\$0  Cycle ant in Study	ues)	280,800 280,800





Sub Total:

**HST Impact:** 

126,600

2,228

Page 723 4 38

MARKHAM	2020 PKO	JECI FUNDI	NG REQUEST FU	Number:	20183
Project Name: City Own	ed Fence Repla	acement Program		<b>Project Cost:</b>	\$128,800
	- Roads er  2	· · · · · · · · · · · · · · · · · · ·	Category: Cost Validation: Requirement Validation:	Useful Life: 25 Minor Internal peer review	
BUILDING MARKHAM'			Sustainable Community		
PROJECT COSTS (\$)  Cost/Quote:  Internal Charges:  External Consulting:	2020 126,600 0	Future Phases 0 0 0	NOTES  2020 locations include; Bullock from Laidlaw to J Fire Hall 96 - Wood (55lr Apple Creek Handrail-Ga	n) lvanized Steel (16lm)	)
			Wetherby Circle along Jo	hn Street - Wrought I	ron (20lm)

Total Project Cost:	128,800	<u> </u>	Amount reques	sted is consister	nt with the 2019	9 Life Cycl	le Reserve
SOURCE(S) OF FUNDING	(\$)		Compone	ents			Future
Funding Type	<u>Budget</u>					TOTAL	Phases
Operating Funded Life Cycle	128,800	0	0	0	0	0	0
TOTAL FUNDING	128,800				<u> </u>	0	0

0

0

Apple Creek Park - Wrought Iron (26.5lm)

the fences are in a state of good repair.

This is an annual program. There is no backlog in this program and

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

**DCA/LIFE CYCLE DETAILS DCA Amount in** Life Cycle Year **Amount** Name Study Amount in Study: 128,800 Amount Incl HST 128,800 2020 Year in the study DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 725 <b>433</b>
20104

Number: 20184

Project Name: Don Mill	a Staum Channa	1				Project (	Cost:	\$15,0	000
Project Name: <b>Don Mill</b>		1					Repair/F	Replace	<u>;                                    </u>
Commission: Communit					Ţ	Jseful Life:	1 P	re App	oroval:
Department: Operations					Category:	Annual			
Project Mgr: Robert O'I				Co	st Validation:	Recent awa	rds		
	2 3 4				nt Validation:				
	6 □ 7 □ 8 ☑			•		-			<del></del>
torm channel is located earnannel to ensure proper stound in the channel. It will suit build markham	st of Woodbine bet orm water conveyar also include chann	ween Steele nce. Program ael maintena	s and John m will inclunce after la	ude periodi	c clean-up of ovents, and in	debris, garba	ge and exce		
DOLLOT COSTS (\$)	2020	E 4 D	<b>1</b>	NOTES					
ROJECT COSTS (\$)	<u>2020</u>	<u>Future P</u>	<u>nases</u>	To support	ongoing annu				
Cost/Quote:	14,741				program. 2 si le for minor a				
Internal Charges:	0				channel such				
External Consulting:	0				ital Services i		for its floo	od redu	ction
Sub Total:	14,741	-		strategies ai	nd implement	ation.			
HST Impact: Total Project Cost:	259	-	0						
Total Project Cost.	15,000								
OURCE(S) OF FUNDIN	<u>G (\$)</u>			Comp	onents				Endana
unding Type	<u>Budget</u>						<u>TOT</u>	<u>ral</u>	<u>Future</u> <u>Phases</u>
perating Funded Life Cycle	15,000		0	0	0	(	)	0	0
TOTAL FUNDING	15,000							0	0
ADED A TINIC DI IDCET I	IMPACT Pe	ersonnel	Non Perso	onnel F	Revenues	Expenditu	res/(Reven	ues)	
PERATING BUDGET	IMITACI	\$0	\$0		\$0		\$0		
CA/LIFE CYCLE DETA	AILS								
<u>DCA</u>					Amount in	<u>Life</u>	Cycle		
Name			Year	Amount	Study	— Amou	ınt in Study	/:	19,800
							nt Incl HS		15,000
							in the stud		2020
DCA and/or Life Cycle	v Evalain if there i	a a abanga i	n the weer (	nd/or oost		Teur	in the state	<i>y</i>	2020
•	-		n the year a	mu/or cost:					
Request reduced based	on 3-year average	spena.							
rioquest reduced eused									
200400010000000000000000000000000000000									



	Page 727	435
abore	20185	

Number: 20185

Repairs  & Fire Services  Roads				τ	Useful Life:	Repair/Re	eplace e Approval:
Roads				Ţ	Jseful Life:	20 Pr	e Approval:
				Category:	Annual		
			Cos	st Validation:	Recent awa	ards	
2 3 4 4			Requiremen	t Validation:	Visual insp	ection	
6 7 8 8							
(SCOPE OF P			o footures ou	tfollo inloto	and aross sor	nnactions as	raquired Thes
FUTURE TOG	ETHER:	Safe & S	Sustainable Co	mmunity			
			NOTES				
<u>2020</u>	<u>Future</u>	<u>Phases</u>		f work done i	n previous ye	ears; Storm S	Sewer Repairs
171,000		0	20 Heritage	, 12 Vanwood	d, Silver Aspe	en, Main Str	eet Markham,
0		0					
0		0				00 III 2020 ti	o ornig runding
171,000		0					
3,010	-	0					
174,000		0					
<u>(\$)</u>			Comp	onents			
Budget	-						Future AL Phases
174,000		0	0	0	(	0	0
174,000							0
PACT Pe	rsonnel	Non Per	sonnel R	levenues	Expenditu	res/(Revenu	ies)
IACI	\$0	\$0	)	\$0		\$0	
<u>_S</u>							
		<b>.</b>		Amount in	<u>Life</u>	Cycle	
		Year	r Amount	Study	– Amoı	unt in Study:	114,600
					Amou	int Incl HST	
Typloin if than :	a a ahama-	in the week	n and/or acct.		1 cui	III die budy	2020
-							
,400 to bring fun	iding up to	3 year ave	erage of \$174	k.			
	Explain if there is	### Together:    2020	Safe & Safe &	FUTURE TOGETHER: Safe & Sustainable Con    2020	NOTES	FUTURE TOGETHER: Safe & Sustainable Community  2020 Future Phases 171,000 0 0 0 0 0 0 171,000 0 171,000 0 174,000 0 174,000 0 174,000 0 174,000 0 0 174,000 0 0 174,000 0 0 0 174,000 1 0 0 0 0 0 174,000 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NOTES



Page 729 **437** 

\$114,800

**Number: 20186** 

Project Name: Guiderail	- Install/Repair/	Ungrade			·	
		o pg. uut			Repair/Repla	ace
Commission: Community			1	Useful Life:	15 Pre A	pproval: $\square$
Department: Operations  Department: Operations			Category:	Minor		
Project Mgr: John Hoov			Cost Validation:	Recent awa	ırds	
	2 3 4 4		Requirement Validation:	Condition a	ssessment	
	6 7 8		•			
DETAILED DESCRIPTIO	· · · · · · · · · · · · · · · · · · ·				D	
nstall new or repair/upgrade City maintains safe roadway		to meet new Provin	cial Standards and minimiz	e maintenanc	ce. Program en	sures that the
,						
		Cafe &	Sustainable Community			
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Sale &	Sustamable Community			
PROJECT COSTS (\$)	2020	Future Phases	NOTES			
Cost/Quote:	112,800	0	153 locations identified i meet standards only when			
Internal Charges:	0	0	require emergency repair			
External Consulting:	0	0	To date, 50 locations have			
Sub Total:	112,800	0	Standard. There is no sub year 3 of 10 year program			
HST Impact:	1,985	0	locations will be upgrade	d.		
Total Project Cost:	114,800	0	Amount requested is con Study update.	sistent with th	ne 2019 Life Cy	cle Reserve
=			7 1			
SOURCE(S) OF FUNDING	G (\$)		Components			
OCKEL(S) OF TENDEN	<u>σ (ψ)</u>		Components		_	Future
	Budget		Components		TOTAL	<u>Future</u> <u>Phases</u>
Funding Type  Operating Funded Life Cycle		0	0 0	(	<b>TOTAL</b> 0	
Operating Funded Life Cycle	Budget 114,800	0	-	(	0	Phases
Funding Type	Budget	0	-	(		Phases 0
Operating Funded Life Cycle TOTAL FUNDING	Budget  114,800  114,800	0 csonnel Non Pe	0 0		0 0	0 0
Operating Funded Life Cycle	Budget  114,800  114,800	rsonnel Non Pe	0 0 rsonnel Revenues		0 0 0 res/(Revenues)	0 0
Operating Funded Life Cycle TOTAL FUNDING	Budget  114,800  114,800  Per  MPACT		0 0 rsonnel Revenues		0 0	0 0
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I	Budget  114,800  114,800  Per  MPACT	rsonnel Non Pe \$0 \$	0 0  rsonnel Revenues 0 \$0  Amount in	Expenditu	0 0 0 res/(Revenues)	0 0
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA	Budget  114,800  114,800  Per  MPACT	rsonnel Non Pe	0 0  rsonnel Revenues 0 \$0  Amount in	Expenditu <u>Life</u>	0 0 0 res/(Revenues) \$0 Cycle	0 0
Punding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  OCA/LIFE CYCLE DETA  DCA	Budget  114,800  114,800  Per  MPACT	rsonnel Non Pe \$0 \$	0 0  rsonnel Revenues 0 \$0  Amount in	Expenditu  Life  Amou	res/(Revenues) \$0  Cycle unt in Study:	Phases  0 0 114,800
Punding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  OCA/LIFE CYCLE DETA  DCA	Budget  114,800  114,800  Per  MPACT	rsonnel Non Pe \$0 \$	0 0  rsonnel Revenues 0 \$0  Amount in	Expenditu  Life  — Amou	res/(Revenues) \$0  Cycle ant in Study: [ ant Incl HST [	Phases  0  0  114,800  114,800
Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET I DCA/LIFE CYCLE DETA DCA Name	Budget	rsonnel Non Pe \$0 \$ Yea	o o  rsonnel Revenues  o \$0  Amount in Study	Expenditu  Life  — Amou	res/(Revenues) \$0  Cycle unt in Study:	Phases  0 0 114,800
Punding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  OCA/LIFE CYCLE DETA  DCA	Budget	rsonnel Non Pe \$0 \$ Yea	o o  rsonnel Revenues  o \$0  Amount in Study	Expenditu  Life  — Amou	res/(Revenues) \$0  Cycle ant in Study: [ ant Incl HST [	Phases  0  0  114,800  114,800
Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET I DCA/LIFE CYCLE DETA DCA Name	Budget	rsonnel Non Pe \$0 \$ Yea	o o  rsonnel Revenues  o \$0  Amount in Study	Expenditu  Life  — Amou	res/(Revenues) \$0  Cycle ant in Study: [ ant Incl HST [	Phases  0  0  114,800  114,800
Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET I DCA/LIFE CYCLE DETA DCA Name	Budget	rsonnel Non Pe \$0 \$ Yea	o o  rsonnel Revenues  o \$0  Amount in Study	Expenditu  Life  — Amou	res/(Revenues) \$0  Cycle ant in Study: [ ant Incl HST [	Phases  0  0  114,800  114,800
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA  Name	Budget	rsonnel Non Pe \$0 \$ Yea	o o  rsonnel Revenues  o \$0  Amount in Study	Expenditu  Life  — Amou	res/(Revenues) \$0  Cycle ant in Study: [ ant Incl HST [	Phases  0  0  114,800  114,800
Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET I DCA/LIFE CYCLE DETA DCA Name	Budget	rsonnel Non Pe \$0 \$ Yea	o o  rsonnel Revenues  o \$0  Amount in Study	Expenditu  Life  — Amou	res/(Revenues) \$0  Cycle ant in Study: [ ant Incl HST [	Phases  0  0  114,800  114,800

# 2020 - Guiderail - Install/Repair/Upgrade

### **Continuity Schedule**

# of locations

Total Inventory 153 (A)

Upgrades completed to date 50 (B)

2019 program 8 (C)

Remaining 95 (D) = (A - B - C)

### **2020 Guiderail Locations**

Kirk Dr. @ Park on the north side
Kirk Dr. @ Park on the South Side
Denison St. east of Warden Ave.
Pinevale Rd
Reesor Rd North of Steeles
Sarah Jane Ct
Vanessa Rd
Langstaff Rd. west of Bayview Ave.



Page 733 **4288**Number: **20187** 

D ' (M =					Project (	Cost:	\$450,000	)
Project Name: <b>Increment</b>	tal Growth Rela	ted Winter M	Iaintenance	e Vehicles		New Ass	set/Expansi	on
Commission: Community	& Fire Services		_		Useful Life:		re Approva	
Department: Operations			_		: Annual	0 1	ie rippiove	
Project Mgr: Raymond L			_	Cost Validation		rde		
	2 🗆 3 🗆 4 🗆		Requir	ement Validation	-			
5 🗆	6 7 8		rtoquii	ement vandation	· Condition a	SSCSSIIICIIC		
DETAILED DESCRIPTIO	· · · · · · · · · · · · · · · · · · ·							
Development Charge (DC) furnaintenance was done in-hour portion of the capital cost in	use, these vehicles neluded in the win	would need to be ter maintenance	pe purchased paid through	by the City, so th	is request is to			
BUILDING MARKHAM'S	S FUTURE TOG	ETHER: Eng	gaged, Diverse	a TillTvilig City				
PROJECT COSTS (\$)	<u>2020</u>	Future Phase	es NOTI			VC C41		
Cost/Quote:	450,000	0	Amour	it requested is as	per the 2017 L	C Study.		
Internal Charges:	0	0						
External Consulting:	0	0						
Sub Total:	450,000	0	•					
HST Impact:	0	0	-					
Total Project Cost:	450,000	0						
SOURCE(S) OF FUNDING	<del>(</del> \$)			omponents				
Funding Type	<u>Budget</u>					TOT		ture 1ases
OCA	450,000	0		0 0	(	)	0	
TOTAL FUNDING	450,000						0	
OPERATING BUDGET IN	MPACT	rsonnel Non	Personnel \$0	Revenues \$0	Expenditu	res/(Reven	ues)	
DCA/LIFE CYCLE DETA DCA	<u>ILS</u>			Amount in	Life	Cycle		
Name			Year Am	ount Study		•		
						nt in Study		
						nt Incl HS7		
						in the study		



Project Name: Localized Repairs - Curb & Sidewalk

### 2020 PROJE

Page 735 **A 28** 

\$859,200

CT FUNDING REQUEST FORM			40
CITONDING REQUEST FORM	Number:	20188	

				Re	epair/Replac	e
Commission: Community			Ţ	Useful Life: 20	Pre Ap	proval:
Department: Operations -			Category:		Γ.	•
Project Mgr: John Hoove	r		Cost Validation:			
Ward(s): $CW \boxed{\bullet} 1 \square$	2 🗆 3 🗆 4 🗆			-	um am t	
5 🗆	6 7 8		Requirement Validation:	Condition assess	sment	
ETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):				
	fall incidents and stem.	reduce associated	out the City as identified by liability to the City. The pur			
PROJECT COSTS (\$)	2020	Future Phases	NOTES			
			Specific locations to be d		-	
Cost/Quote:	844,300	0	audit in 2019. To normal program, life cycle reserv			
Internal Charges: External Consulting:	0	0	annual increase of \$300,0			
_	0		result.		10 7 10 7	
Sub Total:	844,300	0	Amount requested is cons Study update.	sistent with the 20	19 Life Cyc	le Reserve
HST Impact:	14,860	0	Study update.			
Total Project Cost:	859,200	0				
OURCE(S) OF FUNDING	(\$)		Components			
unding Type	Budget	Regular Program	Backlog		TOTAL	<u>Future</u> <u>Phases</u>
perating Funded Life Cycle	859,200	0	0 0	0	0	0
TOTAL FUNDING	859,200			_	0	0
OPERATING BUDGET IN	MPACT Pe		ersonnel Revenues	Expenditures/(	Revenues)	
	<u> ИРАСТ</u>		ersonnel Revenues 50 \$0	Expenditures/(	Revenues)	
CA/LIFE CYCLE DETA	<u> ИРАСТ</u>		\$0 \$0	\$0		
DCA/LIFE CYCLE DETA DCA	<u> ИРАСТ</u>	\$0	\$0 \$0  Amount in			
CA/LIFE CYCLE DETA	<u> ИРАСТ</u>		\$0 \$0 Amount in	\$0	l <u>e</u>	976,000
DCA/LIFE CYCLE DETA DCA	<u> ИРАСТ</u>	\$0	\$0 \$0  Amount in	\$0	l <u>e</u> Study:	976,000 859,200
DCA/LIFE CYCLE DETA DCA	<u> ИРАСТ</u>	\$0	\$0 \$0  Amount in	\$0  Life Cycl  Amount in	Study:	
DCA/LIFE CYCLE DETA DCA Name	ILS	\$0 \$\frac{1}{2}\$	Amount in Study	\$0  Life Cycl  Amount in  Amount In	Study:	859,200
DCA/LIFE CYCLE DETA DCA	ILS	\$0 \$\frac{1}{2}\$	Amount in Study	\$0  Life Cycl  Amount in  Amount In	Study:	859,200
DCA/LIFE CYCLE DETA DCA Name	ILS	\$0 \$\frac{1}{2}\$	Amount in Study	\$0  Life Cycl  Amount in  Amount In	Study:	859,200
DCA/LIFE CYCLE DETA DCA Name	ILS	\$0 \$\frac{1}{2}\$	Amount in Study	\$0  Life Cycl  Amount in  Amount In	Study:	859,200
DCA/LIFE CYCLE DETA DCA Name	ILS	\$0 \$\frac{1}{2}\$	Amount in Study	\$0  Life Cycl  Amount in  Amount In	Study:	859,200
DCA/LIFE CYCLE DETA DCA Name	ILS	\$0 \$\frac{1}{2}\$	Amount in Study	\$0  Life Cycl  Amount in  Amount In	Study:	859,200
OCA/LIFE CYCLE DETA DCA Name	ILS	\$0 \$\frac{1}{2}\$	Amount in Study	\$0  Life Cycl  Amount in  Amount In	Study:	859,200

Project	Localized Repairs – Curb and Sidewalk
2020 Capital Request	\$859,200
Funding Source	Life Cycle Reserve
Description of Program	Maintenance repairs to sidewalks, curbs, mulit-use paths (MUP) and catch basins throughout the City as identified by staff through road patrol. Ensure that deficient sections are repaired to minimize trip and fall incidents and reduce associated liability to the City. The purpose of concrete curb is to channel storm water into the storm sewer system.
Project Rationale	Addresses minor repair locations of curb, sidewalk, MUP failures in order to extend the Life Cycle. Identified in the Life Cycle Reserve Study.
Legislative Requirement	O. Reg. 239/02: Minimum Maintenance Standards for Municipal Highways outlines patrol and maintenance requirement related to roadway infrastructure inclusive of asphalt pavement and sidewalk.
History	n/a
Future Phases	This funding is requested each year.
Total Project Cost	n/a
Related Projects	Localized Repairs Concrete/Asphalt, Asphalt Resurfacing
Related Maps	n/a
Alignment to the Strategic Plan	Program ensures roads and boulevards are made safe for all cyclists, pedestrians and vehicular traffic. Program removes hazards, deficiencies, and reduces risk to the City by replacing with new concrete. This program promotes safety, reduces liability and encourages walkability within the community.



Page	739 <b>4</b>	47

20189 Number:

Ducient Names I 1		<b>T</b> 4		Project (	Cost:	\$119	,200
Project Name: Localized	<del>-</del>	g Lots			Repair/	Replace	e
Commission: Community	y & Fire Services			Useful Life:	8	Pre Api	oroval:
Department: Operations			Category		Ü	<sub>F</sub>	
Project Mgr: John Hoov			Cost Validation		rde		
Ward(s): $CW \checkmark 1$	2 3 4 4		Requirement Validation:	-		<del></del>	
5 🗆	□ 6□ 7□ 8□		Requirement varidation.	Condition a	.550551110111		
DETAILED DESCRIPTION Ongoing maintenance and remaintenance holes and catcle	epairs of municipal p hbasin adjustments an	arking lots through ad asphalt resurfac					rastructure,
BUILDING MARKHAM	S FUTURE TOGE	THER: Engage	u, Diverse & Thriving City				
PROJECT COSTS (\$)	2020	Future Phases	NOTES				
Cost/Quote:	117,100	0	This is an annual program program.	m. There is no	substanti	al back	log in this
Internal Charges:	0	0	Amount requested is con	sistent with th	ne 2019 L	ife Cycl	e Reserve
External Consulting:	0	0	Study update.				
Sub Total: HST Impact:	2,061	0					
Total Project Cost:	<del>-</del>						
- I otal I i oject Costi	119,200						
OURCE(S) OF FUNDING	<u>G (\$)</u>		Components				<b>Future</b>
unding Type	<b>Budget</b>				<u>TO</u>	TAL	Phases
perating Funded Life Cycle	119,200	0	0 0	(	)	0	0
TOTAL FUNDING	119,200					0	0
	Pers	onnel Non Pe	rsonnel Revenues	Expenditu	res/(Reve	nues)	
OPERATING BUDGET 1		\$0 \$	0 \$0		\$0		
CA/LIFE CYCLE DETA	AILS						
<u>DCA</u>			Amount in	Life	Cycle		
Name		Yea	ar Amount Study	— Amou	ınt in Stud	lv·	119,200
					nt Incl HS	•	119,200
				Year	in the stu	dy	2020
DCA and/or Life Cycle	e: Explain if there is a	change in the yea	r and/or cost:				



Page 741 **429** 

2020 PROJECT FUNDING REQUEST FORM 20191 Number:

Declary Norman D. 11		•				Project (	Cost:	\$208	,600
Project Name: Parking							Repair	Replac	e
Commission: Communi	ity & Fire Services	S			,	Useful Life:	20	Pre An	proval:
Department: Operation					Category:		20		p10 / <b>u1</b> /
Project Mgr: Zoyeb Va	ahora				Cost Validation		ards.		
Ward(s): CW ✓ 1	□ 2□ 3□ 4□			Daguina				4	
5[	□ 6□ 7□ 8□			Require	nent Validation:	Condition a	issessmen	l .	
ETAILED DESCRIPT	ION (SCOPE OF	PROJECT	Γ):						
Complete rehabilitation of nd asphalt infrastructure,	as well as mainter	nance holes a	and catch b	asin adjus	tments.	val and repla	cement of	concre	te, interlock
BUILDING MARKHAN	M'S FUTURE TO	GETHER:	Safe & S	Sustainable	Community				
PROJECT COSTS (\$)	<u>2020</u>	Future	Phases	NOTES		60100 W	1 4	(6)	750 2)
Cost/Quote:	204,945		0		tation of a portice no backlog in the				
Internal Charges:	0		0	of good	repair.				
External Consulting:	0		0		t is consistent wi				la Danama
Sub Total:	204,945		0	Study up	requested is con date.	sistent with the	le 2019 L	пе Сус	ie Reserve
HST Impact:	3,607		0						
Total Project Cost:	208,600		0						
-		=====							
OURCE(S) OF FUNDI	NG (\$)			Co	mponents				Future
unding Type	<u>Budg</u>	<u>et</u>					<u>TO</u>	TAL	<u>Phases</u>
perating Funded Life Cycle	208,600	)	0	0	0	(	)	0	0
TOTAL FUNDING	208,60	<u>0</u>						0	0
	IMPACE	Personnel	Non Per	rsonnel	Revenues	Expenditu	res/(Reve	enues)	
OPERATING BUDGET	IMPACT	\$0	\$0	)	\$0		\$0		
CA/LIFE CYCLE DET	TAILS								
<u>DCA</u>					Amount in	<u>Life</u>	<b>Cycle</b>		
Name			Yea	r Amo	ınt Study	— Amoi	ınt in Stud	lv:	430,000
							int Incl H		208,600
						rear	in the stu	ay	2020
DCA and/or Life Cyc									
Requesting reduced an	nount due to the c	onstruction of	of Yorktech	n through	the parking lot.	6750 square	metres wil	ll be co	mpleted.



 Page 743 <b>45</b> 8

\$163,600

**Number:** 20192

Project Name: Railway (		litation -	Castlemor	·e			Repair	/Replac	e		
Commission: Community					Ţ	Jseful Life:	10	Pre Ar	proval:		
Department: Operations				Category: Minor							
Project Mgr: John Hoove				Cost Validation: Third party estimate							
Ward(s): CW ✓ 1 ☐					t Validation:			t			
5 🗌	6□ 7□ 8□				, шиониоти						
DETAILED DESCRIPTIO											
Maintenance repairs to rehable and maintain the crossing that and replace it with rubber multiple building MARKHAM's	at the City is responded rails, tie, track,	nsible for pasphalt and	per previous d traffic con	agreement.	Work includ						
PROJECT COSTS (\$)	2020	Future 1	Dhagag	NOTES							
	160,800	r uture			ill be conduc						
Cost/Quote:	160,800				the legal agr nent states tha						
Internal Charges: External Consulting:	0		0	costs associ	ated with the	rehabilitation	works.		•		
Sub Total:	160,800			Metrolinx e	stimate - \$160	0,757 not inc	l. HST im	ipact.			
HST Impact:	2,830		$\frac{0}{0}$								
Total Project Cost:	163,600		0								
=	105,000										
SOURCE(S) OF FUNDING	<u> </u>			Comp	onents				<u>Future</u>		
Funding Type	Budget						<u>TC</u>	TAL	<u>Phases</u>		
Operating Funded Life Cycle	163,600		0	0	0	(	)	0	0		
TOTAL FUNDING	163,600							0	0		
ODED ATING DUDGET I	MBACT Pe	rsonnel	Non Perso	onnel R	levenues	Expenditu	res/(Reve	enues)			
OPERATING BUDGET II	WFACI	\$0	\$0		\$0		\$0				
DCA/LIFE CYCLE DETA	ILS										
<u>DCA</u>			<del>-</del>		Amount in	<u>Life</u>	<b>Cycle</b>				
Name			Year	Amount	Study	— Amou	ınt in Stud	dy:	204,700		
						Amou	nt Incl H	ST	163,600		
						Year	in the stu	dy	2020		
DOA 1/ 1/6 O 1	Explain if there is	a change	in the vear a	and/or cost							
I DC A and/or Life Cycle			•	ma/or cost.							
Denison crossing is bein	-	Metroliny (	chedille								
Denison crossing is bein	-	Metrolinx s	schedule.								
	-	Metrolinx s	schedule.								
	-	Metrolinx s	scnedule.								
	-	Metrolinx s	schedule.								



Page 745**453**Number: 20193

D. '. (M. D. )	***				Project (	Cost:	\$78,700
Project Name: Retaining	g Wall Repair Pr	ogram				Repair/Re	eplace
Commission: Communit	y & Fire Services			Ţ	Jseful Life:		e Approval:
Department: Operations	s - Roads			Category:		20 11	e Approvai. —
Project Mgr: John Hoov	rer			• •			
Ward(s): CW ✓ 1	2 3 4			ost Validation:			
5 🗆	6 7 8		Requirem	ent Validation:	Condition a	ssessment	
DETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):					
Repairs to failing retaining	walls and other righ	t of way structura	al assets on city	owned propert	ty.		
BUILDING MARKHAM	'S FUTURE TOG	ETHER: Safe	& Sustainable C	Community			
PROJECT COSTS (\$)	2020	Future Phases	NOTES				
Cost/Quote:	77,300	0	Locations				Street. This is an
				n a state of goo		n tnis progra	am. The retaining
Internal Charges: External Consulting:	0	0				ne 2019 Life	Cycle Reserve
			Study upd	ate.			
Sub Total:	77,300	0					
HST Impact:	1,360	0					
Total Project Cost:	78,700	0					
SOURCE(S) OF FUNDIN	G (\$)		Com	ponents			— E4
Funding Type	<b>Budget</b>					<u>TOT</u> 2	Future AL Phases
Operating Funded Life Cycle	78,700	0	0	0	(	)	0 0
TOTAL FUNDING	78,700					-	0 0
							<u> </u>
OPERATING BUDGET 1	IMPACT Pe	rsonnel Non	Personnel	Revenues	Expenditu	res/(Revenu	ies)
		\$0	\$0	\$0		\$0	
DCA/LIFE CYCLE DETA	AILS						
<u>DCA</u>		•	7 <b>A</b>	Amount in	<u>Life</u>	Cycle Cycle	
Name			Year Amour	nt Study	– Amou	ınt in Study:	78,700
					Amou	nt Incl HST	78,700
					Year	in the study	
DCA and/on Life Cycle	o. Evaloin if those is	a ahanga in the	voor ond/or oos	4.	1001	in the staay	2020
DCA and/or Life Cycle	e: Expiain ii there is	a change in the	year and/or cos	L: 			



Page /4/**455**Number: 20194

Project Name: 64a We	atan Datantian D	and Maintan an	. a.s. Dua aua		Project (	Cost: \$51	,900
Project Name: Storm Wa		ond Maintenan	ice Progra	<u>m</u>		Repair/Repla	ce
Commission: Community				1	Useful Life:	15 Pre A	oproval:
Department: Operations				Category:			
Project Mgr: John Hoove				Cost Validation:		er review	
	2 🗆 3 🗆 4 🗆		Require	ment Validation:			
5 🗌	6 7 8		rtequire	ment vandation.	- Tour map		
DETAILED DESCRIPTIO							
Ongoing minor maintenance repairing/replacing grates, he reported by 2018 site inspect the fall of 2019.	eadwalls and fence tion. Repair defect	s. This maintenan ive items identifie	ace program	will include loca 15 storm water i	lized repairs	of identified def	
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Sale	& Sustainable	Community			
PROJECT COSTS (\$)	<u>2020</u>	Future Phases	NOTE	S clude repairs to b	affla blasks	inlata haaliflar	· maariantaa
Cost/Quote:	51,000	0		oipes and retaining			
Internal Charges:	0	0		21k. There is no			
External Consulting:	0	0		ance above the wrehabilitation be			
Sub Total:	51,000	0	from \$2	5k/year to \$52k/y	ear starting 2	2020 to accomm	odate
HST Impact:	898	0		on removal at 6 s requested is con			
Total Project Cost:	51,900	0	Study u		sistem with ti	ie 2019 Life Cy	de Reserve
SOURCE(S) OF FUNDING	<u>G (\$)</u>		Co	mponents			Futumo
Funding Type	<b>Budget</b>					<b>TOTAL</b>	Future Phases
Operating Funded Life Cycle	51,900	0	0	0	(	) 0	
TOTAL FUNDING	51,900					0	
	Pe	rsonnel Non P	Personnel	Revenues	Expenditu	res/(Revenues)	
OPERATING BUDGET II	MPACT		\$0	\$0		\$0	
DCA/LIFE CYCLE DETA	ILS		·	·			
<u>DCA</u>				Amount in	<u>Life</u>	Cycle	
Name		Y	ear Amo	unt Study	— Amou	int in Study:	51,900
						nt Incl HST	51,900
						in the study	2020
DCA 1/ TIC C 1	. IP11 10.4		1/	- 4	1 Cal	in the study	2020
DCA and/or Life Cycle:	: Explain if there is	a change in the y	ear and/or c	ost:			



A NAME OF	/ XI I		1141	inder.	201)8
Project Name: D	Packaton and Outfield Fance Donlar	oment at Annodele Dir	Project Co	ost:	\$39,300
Commission: Commis	Backstop and Outfield Fence Replace  Community & Fire Services  Operations - Parks  ames Bingham  N ☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐  5 ☐ 6 ☐ 7 ☐ 8 ☐		Internal peer	35 review	Replace Pre Approval:
ETAILED DES	SCRIPTION (SCOPE OF PROJECT):				
ackstop fence an	d outfield fence replacement for Armadale	e Park Major #1.			
BUILDING MAI	RKHAM'S FUTURE TOGETHER:	Safe & Sustainable Community			

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	38,600	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	38,600	0
HST Impact:	679	0
Total Project Cost:	39,300	

### **NOTES**

Unit cost is based on original cost of construction plus inflation. This is an annual program and funding will be requested each year for baseball and softball field's city wide. Project costs vary depending on the number of locations. There is no substantial backlog and assets are in a state of good repair. Replacement of netting and hardware only, deferred posts and structure to 2040 based on condition assessment. The backstop/outfield fence at Armadale was installed in 1985.

SOURCE(S) OF FUNDING (\$)	<u></u>		Compone	ents			D.
Funding Type	Budget					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	39,300	0	0	0	0	0	0
TOTAL FUNDING	39,300				=	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

### **DCA/LIFE CYCLE DETAILS DCA Amount in** Life Cycle Year **Amount** Name Study Amount in Study: 39,300 39,300 Amount Incl HST Year in the study 2020 DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 751**459**Number: 20196

Ducinet Names DI			a 1.	D1 1		Project (	Cost:	\$11,	200
Project Name: Bleacher	. , .	cement - (	Grandviev	w Bleachers	<u> </u>		Repair/F	Replac	e
Commission: Community	-				Ţ	Jseful Life:	30 F	re Ap	proval:
Department: Operation					Category:	Annual		1.	
Project Mgr: James Bin				Cos	t Validation:		ords		
	2			Requirement					
	□ 6□ 7✔ 8□			1					
DETAILED DESCRIPTI	· · · · · · · · · · · · · · · · · · ·								
Large metal bleachers at Greetified.	randview Park requ	iire replace	ment based	on condition	assessment.	These bleach	ners are sat	ety sta	ndard
DITT DING MADIZHAM			Safa & Si	ustainable Cor	amunity				
BUILDING MARKHAM	TS FUTURE TOC	ETHEK:	Sale & St	ustamable Col	illiumty				
PROJECT COSTS (\$)	2020	Future	Phases	<b>NOTES</b>					
Cost/Quote:	11,000			Funding amo					le and actual
Internal Charges:	0			There is no s					
External Consulting:	0		0	repair.		_			
_				Unit cost is on Being replace					nital
Sub Total: HST Impact:	<u>11,000</u> 194			Project. Ble				ark Ca	prui
Total Project Cost:									
	11,200								
SOURCE(S) OF FUNDIN	<u>IG (\$)</u>			Compo	onents				E4
Funding Type	<b>Budget</b>						<u>TO</u>	<u>ral</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	11,200		0	0	0	(	)	0	0
TOTAL FUNDING	11,200							0	0
ODED ATING DUDGET	IMDA CT P	ersonnel	Non Pers	sonnel R	evenues	Expenditu	res/(Rever	nues)	
OPERATING BUDGET	<u>IMPACI</u>	\$0	\$0		\$0		\$0		
DCA/LIFE CYCLE DET	<u>AILS</u>								
<u>DCA</u>					Amount in	<u>Life</u>	<u>Cycle</u>		
Name			Year	Amount	Study	— Amoı	ınt in Study	y:	22,200
							nt Incl HS	·	11,200
							in the stud		2020
DCA1/1'C-C1	E 1. 1. 16 (1	1		1/		1 cui	m the stac	.,	2020
DCA and/or Life Cycl	e: Explain il there	is a change	in the year	and/or cost:					



### 2020 PROJECT FU

Page 753 **A C 3** 

\$352,300

UNDING REQUEST FOR	M Number:	20198	
	<b>Project Cost:</b>	\$352,300	

Project Name: <b>Boulevar</b>		<u>.</u>	<del></del>	Repair/Repla	ce
Commission: Community	y & Fire Services		1	<del></del>	pproval:
Department: Operations			Category:	•	ррго чиг.
Project Mgr: David Plan	it			Recent awards	
Ward(s): $CW \boxed{\bullet} 1$	2 3 4 4		Requirement Validation:	-	
5 🗆	6 7 8		Requirement vandation.	Condition assessment	
DETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):			
	e is approximately \$ ess tree loss through	400 to plant and \$1 damage, accidents	00 to grind the remaining s	ace a total of 705 dead, disea stump. This program and fund	
PROJECT COSTS (\$)	2020	Future Phases	NOTES		
Cost/Quote:	346,200	0		acant street tree sites is 1600. with recent award plus inflatio	
Internal Charges:	0	0		sistent with the 2019 Life Cy	
External Consulting:	0	0	Study update.		
Sub Total:	346,200	0			
HST Impact:	6,093				
Total Project Cost:	352,300	0			
=	<u> </u>				
OURCE(S) OF FUNDING	G (\$)		Components		
			•		Future
	Budget	new Plantings	Back Log	TOTAL	<u>Future</u> <u>Phases</u>
unding Type		new Plantings		0 352,300	
nunding Type perating Funded Life Cycle TOTAL FUNDING	<u>Budget</u>		Back Log		Phases
perating Funded Life Cycle TOTAL FUNDING	352,300 352,300		Back Log 176,150 0	0 352,300	Phases 0
unding Type  perating Funded Life Cycle  TOTAL FUNDING	352,300 352,300	176,150	Back Log 176,150 0  rsonnel Revenues	0 352,300 352,300	Phases 0
unding Type  perating Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET I	352,300  352,300  Per Per	176,150	Back Log 176,150 0  rsonnel Revenues	0 352,300 352,300 Expenditures/(Revenues)	Phases 0
unding Type  perating Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA	352,300  352,300  Per Per	176,150  sonnel Non Pe \$0 \$	Back Log	0 352,300 352,300 Expenditures/(Revenues) \$0	Phases 0
unding Type  perating Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET I	352,300  352,300  Per Per	176,150	Back Log	0 352,300 352,300 Expenditures/(Revenues) \$0	Phases 0
perating Funded Life Cycle TOTAL FUNDING  DPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA	352,300  352,300  Per Per	176,150  sonnel Non Pe \$0 \$	Back Log	0 352,300 352,300 Expenditures/(Revenues) \$0 Life Cycle	0 0
perating Funded Life Cycle TOTAL FUNDING  DPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA	352,300  352,300  Per Per	176,150  sonnel Non Pe \$0 \$	Back Log	0 352,300  352,300  Expenditures/(Revenues)  \$0  Life Cycle  Amount in Study:	Phases  0 0 352,300
unding Type  perating Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA	Budget  352,300  352,300  Per  MILS	176,150  sonnel Non Pe \$0 \$	176,150 0  rsonnel Revenues 0 \$0  Amount in Study	0 352,300  352,300  Expenditures/(Revenues)  \$0  Life Cycle  Amount in Study:  Amount Incl HST	Phases  0 0 352,300
perating Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA  Name	Budget  352,300  352,300  Per  MILS	176,150  sonnel Non Pe \$0 \$	176,150 0  rsonnel Revenues 0 \$0  Amount in Study	0 352,300  352,300  Expenditures/(Revenues)  \$0  Life Cycle  Amount in Study:  Amount Incl HST	Phases  0 0 352,300
perating Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA  Name	Budget  352,300  352,300  Per  MILS	176,150  sonnel Non Pe \$0 \$	176,150 0  rsonnel Revenues 0 \$0  Amount in Study	0 352,300  352,300  Expenditures/(Revenues)  \$0  Life Cycle  Amount in Study:  Amount Incl HST	Phases  0 0 352,300
perating Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA  Name	Budget  352,300  352,300  Per  MILS	176,150  sonnel Non Pe \$0 \$	176,150 0  rsonnel Revenues 0 \$0  Amount in Study	0 352,300  352,300  Expenditures/(Revenues)  \$0  Life Cycle  Amount in Study:  Amount Incl HST	Phases  0 0 352,300
perating Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA  Name	Budget  352,300  352,300  Per  MILS	176,150  sonnel Non Pe \$0 \$	176,150 0  rsonnel Revenues 0 \$0  Amount in Study	0 352,300  352,300  Expenditures/(Revenues)  \$0  Life Cycle  Amount in Study:  Amount Incl HST	Phases  0 0 352,300
perating Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA  Name	Budget  352,300  352,300  Per  MILS	176,150  sonnel Non Pe \$0 \$	176,150 0  rsonnel Revenues 0 \$0  Amount in Study	0 352,300  352,300  Expenditures/(Revenues)  \$0  Life Cycle  Amount in Study:  Amount Incl HST	Phases  0 0 352,300



Page 755**463** 

Number:	20199
---------	-------

Duciact Names D 11 C	14 4 <b>D</b>	4. 34.	· D 1		Project (	Cost:	\$25,	300
Project Name: Bridge S		ative Maintenan	e in Parks			Repair/	Replace	e
Commission: Communit				Ţ	Jseful Life:	30	Pre Ap	proval:
Department: Operation:				Category:	Annual			
Project Mgr: Scott Grie			Cos	st Validation:		rds		
	2 3 4 4			t Validation:				
	□ 6□ 7□ 8□		1					
DETAILED DESCRIPTI			τ	1	11 1 0	. 2020	11.	
Annual preventative mainte assessment. Work includes curbs.  BUILDING MARKHAM	s fill and grade bridg	e approaches, remo		e wooden decl				
BUILDING MAKKHAM	ISFUTURE TOG	ETHER: Sale &						
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	NOTES This is an ar	nual progran	and funde v	ill be rea	acted 4	ach vear
Cost/Quote:	24,850	0		backlog and b				
Internal Charges:	0	0		rations is resp				
External Consulting:	0	0		culverts such a paches and br				
Sub Total:	24,850	0	culverts, wh	ile Environm	ental Service	s is respor	nsible f	or its
HST Impact:	437	0			and replacement. Starting 2018, this prate projects, one in Roads and the c			
Total Project Cost:	25,300	0	project is split into 2 separate projects, one in Roads and the other in Parks.					
SOURCE(S) OF FUNDIN	IC (\$)				MILANI WALLA II	1 <u>4 /111                                </u>	141 (//-	A RANAFI/A
SOCRED(B) OF FEI(DE)	<del>(Φ)</del>		Comp	onents				
Funding Type	Budget		Сошр	onents		<u>TO</u>	TAL	<u>Future</u> <u>Phases</u>
		0	0	0	(	<u> </u>	<b>TAL</b> 0	
Funding Type	Budget	0			(	<u> </u>		<u>Phases</u>
Funding Type  Operating Funded Life Cycle	25,300	0			(	<u> </u>	0	Phases 0
Funding Type Operating Funded Life Cycle TOTAL FUNDING	25,300 25,300	0 rsonnel Non Pe	0		Expenditu	)	0	Phases 0
Funding Type Operating Funded Life Cycle	25,300 25,300		0 rsonnel R	0		)	0	Phases 0
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DET	25,300 25,300 Per	rsonnel Non Pe	0 rsonnel R	0 Revenues		res/(Reve	0	Phases 0
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DET  DCA	25,300 25,300 Per	rsonnel Non Pe \$0 \$	0 rsonnel R	0 Revenues \$0  Amount in	Expenditu	res/(Reve	0	Phases 0
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DET	25,300 25,300 Per	rsonnel Non Pe	0 rsonnel R	0 Revenues \$0	Expenditure Life	res/(Reve	0 0 nues)	Phases 0
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DET  DCA	25,300 25,300 Per	rsonnel Non Pe \$0 \$	0 rsonnel R	0 Revenues \$0  Amount in	Expenditure  Life  — Amou	res/(Reverse)	0 0 0 nues)	Phases 0
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DET  DCA	25,300 25,300 Per	rsonnel Non Pe \$0 \$	0 rsonnel R	0 Revenues \$0  Amount in	Expenditure  Life  Amou	res/(Reve \$0 Cycle ant in Stud	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Phases 0
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DET  DCA	Budget     25,300       25,300	rsonnel Non Pe \$0 \$ Yea	orsonnel R	0 Revenues \$0  Amount in	Expenditure  Life  Amou	res/(Reve \$0 Cycle ant in Stud nt Incl HS	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DET. DCA Name	Budget  25,300  25,300  Per  IMPACT  AILS  e: Explain if there is lect is split into 2 separate to the content of the content	rsonnel Non Pe \$0 \$  Yea  a change in the yea  parate projects, one	rsonnel R )  r Amount r and/or cost:	0 Revenues \$0 Amount in Study	Expenditure  Life  Amou  Amou  Year	res/(Reverse) \$0  Cycle ant in Stude in Incl HS in the stude	o o v:	Phases  0 0 2020



# MARKHAM 2020 PROJECT FUNDING REQUEST FORM

MAKKHAM				_	Nun	iber: 20	)200
Project Name: Cemetery	Fence Repair a	t Thornhill Cem	netery		Project Cos	st: \$44,	,100
	<u> </u>		J	<u></u>		Repair/Replac	e
Commission: Community				Ţ	Jseful Life: 2	5 Pre Ap	proval:
Department: Operations Project Mgr: Dean McDe				Category:	Annual		
	Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □		(	Cost Validation:	Recent awards	S	
			Requiren	nent Validation:	Condition asse	essment	
5 L DETAILED DESCRIPTIO	6□ 7□ 8□	DOJECT).					
Fence repairs at Thornhill Cerivate adjacent lands and but	emetery (City ownerial grounds.	ed cemeteries = 14	) based on co		nent to maintain	a formal bord	er between
OILDING MARKHAM	S FUTURE TOG	ETHEK; Suice		Community			
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	NOTES This is an	annual project	and funding wil	l he requested	AVATU VAAT
Cost/Quote:	43,300	0	Fence ma	terials vary by l	ocation (chain l	ink, wood, wr	ought iron o
Internal Charges:	0	0		ation). Thornhill s program will b			
External Consulting:	0	0		evelop a Life Cy			
Sub Total:	43,300	0	the secon	d year this proje	ct has resided v	vith Operation	s.
HST Impact:	762	0	Study upo	equested is constant.	sistent with the	2019 Life Cyc	le Reserve
Total Project Cost:	44,100	0					
OURCE(S) OF FUNDING	<u> </u>		Cor	nponents			Future
unding Type	Budget	Chain Link	Wrought I	ron		TOTAL	<u>Phases</u>
perating Funded Life Cycle	44,100	21,174	22,926	0	0	44,100	0
TOTAL FUNDING	44,100					44,100	0
OPERATING BUDGET I	MPACT Per		ersonnel \$0	Revenues \$0	Expenditures	,	
OCA/LIFE CYCLE DETA	ILS						
<u>DCA</u>				Amount in	<u>Life Cy</u>	<u>vcle</u>	
Name		Ye	ear Amou	nt Study	Amount	in Study:	44 100

# Amount Incl HST 44,100 Year in the study 2020 DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 759**467** 

Number:	20201

Project Name: City Par	lz Funnituno / Am	onitios			Project (	Cost:	\$171	,600
<del></del>		lemues				Repa	ir/Replac	e
Commission: Communit				Ţ	Jseful Life:	10	Pre Ap	proval:
Department: Operations				Category:	Annual		•	•
Project Mgr: Matthew I			Co	st Validation:		er reviev	<b>X</b> /	
Ward(s): $CW \boxed{\bullet} 1$	2 3 4 4			nt Validation:				
5 🗆	□ 6□ 7□ 8□		Requiremen	it vandation.	Condition t	1330331110		
This is an annual replacement perimeter fencing. Project is big bellies, signage and han building MARKHAM	ent program to provi ncludes replacement aging baskets.	de and replace fur t and installation o		ic table frames				
PROJECT COSTS (\$)	2020	E ( DI	NOTES					
	<u>2020</u>	Future Phases	This is an a	nnual program				
Cost/Quote:	168,600	0		\$171.6k due t dditional furni				
Internal Charges:	0	0		substantial ba				
External Consulting:	0	0	repair.		_			_
Sub Total:	168,600	0	Study update					le Reserve
HST Impact:	2,967	0						
Total Project Cost:	171,600	0						
SOURCE(S) OF FUNDIN	[G (\$)		Comp	onents				E4
Funding Type	<b>Budget</b>					$\underline{\mathbf{T}}$	OTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	171,600	0	0	0	(	0	0	0
TOTAL FUNDING	171,600						0	0
OPERATING BUDGET	IMPACT Per	rsonnel Non P	ersonnel I	Revenues	Expenditu	res/(Re	venues)	
OTERATING BUDGET	IWITACI	\$0	\$0	\$0		\$0		
DCA/LIFE CYCLE DET	AILS							
<u>DCA</u>				Amount in	<u>Life</u>	<u>Cycle</u>		
Name		Yo	ear Amount	Study	– Amoı	ınt in St	udv:	171,600
						ınt Incl I	• =	171,600
						in the s		2020
	D 1::01		1/		1 eai	III uie s	tudy	2020
DCA and/or Life Cycle	e: Explain if there is	a change in the ye	ar and/or cost:					



Project Name: Court Resurfacing/Reconstruction/Maintenance

# 2020 PROJECT FUNDING REQUEST FORM

Page 761 **469** 

\$403,400

Number:	20202
Tullibel.	20202

<u> </u>	0.71. 0. 1				Repair/Replace	ce	
Commission: Community	y & Fire Services		Ţ	Jseful Life:	7 Pre Aı	oproval:	
Department: Operations	- Parks				,	· F · · · · ·	
Project Mgr: Dean McD	ermid		Category:				
Ward(s): CW ✓ 1	] 2□ 3□ 4□		Cost Validation:	Internal pee	r review		
	6 7 8		Requirement Validation:	Condition a	ssessment		
		D O TE CITY					
DETAILED DESCRIPTION		•		1		1	
Repair and resurfacing of ba appraisal each spring and fa Johnsview Village 1,2, and ' Maintenance - Carlton Park	ll. Reconstruction- Thornlea S.S. 1,2,3	Duncan Park 1, 2,					
BUILDING MARKHAM	'S FUTURE TOG	ETHER: Safe &	Sustainable Community				
			NOTEC				
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	NOTES There has been defermen	ts of court res	urfacing/renlac	ement at	
Cost/Quote:	396,423	0	some tennis clubs but it is				
Internal Charges:	0	0	The City is responsible for				
External Consulting:	0	0	courts to a maximum of \$				
-			clay courts). The total cos				
Sub Total:	396,423		clubs is shared 50:50 between the tennis club and the City. Tenniclub court replacement/rehabilitation will proceed subject to satisfactory club finance review.				
HST Impact:	6,977	0					
Total Project Cost:	403,400	0	,				
-							
SOURCE(S) OF FUNDING	<u>G (\$)</u>		Components			Future	
Funding Type	Budget		Clay Court Public Co	<u>urts</u>	TOTAL	<u>Phases</u>	
Operating Funded Life Cycle	403,400	0	9,000 394,400	0	403,400	0	
TOTAL FUNDING	403,400				403,400	0	
OPERATING BUDGET I	MPACT Per		ersonnel Revenues	-	res/(Revenues)		
	TT C	\$0	\$0 \$0		\$0		
DCA/LIFE CYCLE DETA DCA	<u> </u>			T 10	~ .		
		Ve	Amount in ear Amount Study	<u>Life</u>	<u>Cycle</u>		
Name		10	ai Amount Study	— Amou	nt in Study:	505,500	
				Amou	nt Incl HST	403,400	
					in the study		
				i eai	in the study	2020	
DCA and/or Life Cycle		a change in the ye	ar and/or cost:				
Removed Armadale CC							

#### 2020 Court Resurfacing/Reconstruction

Resurface, Reconstruction or		Cost Including Inflation (inc. HST	Tennis Club Share	Total Project Cost (City Share/Tennis Club Share)	
Maintenance	Component	Impact)	-inc. HST impact	-inc. HST impact	Notes
Resurface	Berczy Park South - #1 & #2	40,446		40,446	Public courts
Clay Court Maintenance	Carlton Park #5, #6, & #7	9,000		9,000	Reimbursement to Unionville Tennis Club
Rebuild	Duncan Park - #1, #2 & #3	151,674		151,674	Public courts
Resurface	Johnsview - #1 & #2	40,446		40,446	Public courts
Rebuild	Morgan - #1 & #2	101,116		101,116	Public courts
Resurface	Thornlea - #1, #2 & #3	60,670		60,670	
	Total	403,353	0	403,353	

Rounded Off 403,400 0 403,400



Page 765 4 783
 20202

Number: 20203 **Project Cost:** \$82,400 Project Name: Cricket Pitch Outfield Screening Repl. at Yarl Cedarwood Repair/Replace Commission: Community & Fire Services Pre Approval: Useful Life: 10 Department: Operations - Parks Category: Annual Project Mgr: James Bingham Cost Validation: Internal peer review Ward(s): Requirement Validation: Visual inspection **DETAILED DESCRIPTION (SCOPE OF PROJECT):** Replacement of netting around the Yarl Cedarwood Cricket pitch. Stewardship of Money & Resources **BUILDING MARKHAM'S FUTURE TOGETHER: NOTES** Install new fabric and winch system only. Poles deferred until 2030. This screening was last replaced in 2010.

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	81,000	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	81,000	0
HST Impact:	1,426	0
Total Project Cost:	82,400	0

Install new fabric and winch system only. Poles deferred until 2030. This screening was last replaced in 2010. Amount requested is consistent with the 2019 Life Cycle Reserve Study update.

SOURCE(S) OF FUNDING (S	<u> </u>		Compone	ents			E4
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	82,400	0	0	0	0	0	0
TOTAL FUNDING	82,400					0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

# DCA/LIFE CYCLE DETAILS DCA

<u>DCA</u>	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 82,400
		Amount Incl HST 82,400
		Year in the study 2020
OCA and/or Life Cycle: Expla	in if there is a change in the year and/or cost:	
- Crrund, or Elic Cycle. Empire.	in it diere is a change in the year and/or cost.	
		<del></del>



	Page 767 <b>475</b>
Number:	20204

Project Name: Docorotivo	Fountain Dan	lacoment a	t Swan	I aka Dk		Project (	Cost:	\$84,300
Project Name: <b>Decorative</b>		acciliciit d	uswall	Lant I K			Repair/Re	place
Commission: Community &					Ţ	Jseful Life:	20 Pro	e Approval:
Department: Operations -	Parks				Category:	Minor		
Project Mgr: Matt Busato				Co	st Validation:		z estimate	
Ward(s): $CW \square 1 \square$	2 3 4 4				nt Validation:			
5 🗸	6 7 8			Requiremen	it vandation.	Condition	issessificit	
DETAILED DESCRIPTION	N (SCOPE OF P	ROJECT):						
Replacement of decorative for	ıntain, based on l	ife cycle and	l condition	on assessmen	t. 2020 locat	ion is Swan I	Lake Park (2	fountains).
			G: 1	1: 63.5	0. D			
BUILDING MARKHAM'S	FUTURE TOG	ETHER:	Stewards	hip of Money	& Resources			
PROJECT COSTS (\$)	2020	Future Ph	ases	<b>NOTES</b>				
Cost/Quote:	82,806		0		will agitate a 2000 and this			fountain was firs replaced.
Internal Charges:	0		0					Cycle Reserve
External Consulting:	0		0	Study updat	e.			
Sub Total:	82,806		0					
HST Impact:	1,457		0					
Total Project Cost:	84,300		0					
=	<del></del>							
SOURCE(S) OF FUNDING	(\$)			Comp	onents			— Future
Funding Type	<b>Budget</b>						TOTA	
Operating Funded Life Cycle	84,300		0	0	0	(	0	0 0
TOTAL FUNDING	84,300						-	0 0
OPERATING BUDGET IM	IDACT Pe	rsonnel I	Non Pers	sonnel F	Revenues	Expenditu	res/(Revenu	ies)
OPERATING BUDGET IN	IFACI	\$0	\$0		\$0		\$0	
DCA/LIFE CYCLE DETAI	L <u>S</u>							
<u>DCA</u>					Amount in	<u>Life</u>	Cycle	
Name			Year	Amount	Study	— Amou	unt in Study:	84,300
·							int Incl HST	
						Year		- /
DCA and/or Life Cycle: 1	Evnlain if there is	a changa in	the year	and/or cost:		Year	in the study	- /



Project Name: Goal Posts Replacement

# 2020 PROJECT FUNDING REQUEST FORM

Page 769	<b>78</b> 9

\$20,200

Number: 20205

					Repair/Repla	ce
Commission: Community	& Fire Services			Useful Life:	30 Pre A <sub>1</sub>	pproval:
Department: Operations	- Parks				30 11071	pprovar.
Project Mgr: James Bing	ham		Category:			
Ward(s): CW ✓ 1	2□ 3□ 4□		Cost Validation			
	6 7 8		Requirement Validation:	Condition a	ssessment	
DETAILED DESCRIPTION		· · · · · · · · · · · · · · · · · · ·	0)) 1 0 1	1 110		
Goal Posts (2 sets) at 3 locat	ions (Grandview &	Quantztown (1 &	2)) due for replacement bas	sed on life exp	sectancy and con	ndition rating.
BUILDING MARKHAM'	S FUTURE TOGI	ETHER: Stewar	dship of Money & Resources			
PROJECT COSTS (\$)	2020	Future Phases	NOTES			
			Life cycle Program. \$6.6			
Cost/Quote:	19,900	0	program and funding wil are safety compliant.	I be requested	l each year. The	replacements
Internal Charges:	0	0	Unit prices consistent wi	th recent awa	rd plus inflation	. The goal
External Consulting:	0	0	posts at Grandview were			
Sub Total:	19,900	0	Quantztown in 1990.			
HST Impact:	350	0	Amount requested is con	sistent with th	ne 2019 Life Cy	cle Reserve
Total Project Cost:	20,200	0	Study update.			
Ξ						
SOURCE(S) OF FUNDING	<del>G (\$)</del>		Components			
Funding Type	Budget				TOTAL	<u>Future</u> <u>Phases</u>
t unumg 1 ype	Duaget				TOTAL	<u>1 114565</u>
Operating Funded Life Cycle	20,200	0	0 0	(	0 0	0
TOTAL FUNDING	20,200				0	0
	Dos	rsonnel Non Pe	ersonnel Revenues	F 0 d:4	/( <b>D</b>	
OPERATING BUDGET I	MPACT Per			Expenditu	res/(Revenues)	
		\$0 \$	50 \$0		\$0	
DCA/LIFE CYCLE DETA	ILS					
<u>DCA</u>		<b>X</b> 7 -	Amount in	<u>Life</u>	<u>Cycle</u>	
Name		Ye	ar Amount Study	— Amou	ınt in Study:	20,300
				Amou	int Incl HST	20,300
				r ear	in the study	2020
DCA and/or Life Cycle	Explain if there is	a change in the year	ar and/or cost:			



Page 771	79
20206	

\$176,500

**Number: 20206** 

Project Name: <b>Hunting</b>	ton PK Floodlight	s, Poles & Cross	Arms Replacemt.			
Commission: Communi	tv & Fire Services				Repair/Replace	
Department: Operation				Useful Life:	30 Pre Ap	pproval: $\square$
Project Mgr: James Bir			Category	: Minor		
	□ 2 □ 3 □ 4 □		Cost Validation	: External pe	eer review	
5[			Requirement Validation	: Condition a	assessment	
DETAILED DESCRIPTI		POIECT).				
Floodlights, poles and cros			ed on condition assessmen	t and to avoid	untimely outage	s. This
project includes the repair,	removal and disposa	al of existing poles a	and floodlights, and supply			
and floodlights. Location	for 2020 is Huntingto	on Softball Diamond	1.			
BUILDING MARKHAM	1'S FUTURE TOG	ETHER: Safe &	Sustainable Community			
PROJECT COSTS (\$)	2020	Future Phases	NOTES This is an annual present	m and funding	y will be measured.	ad aaab waan
Cost/Quote:	173,400	0	This is an annual progra All of the Markham spo			
Internal Charges:	0	0	1982 have been equippe			
External Consulting:	0	0	that are designed to condark sky illumination. P			
Sub Total:	173,400	0	winter season. This proj	ect will be LE	D lights due to l	ow light
HST Impact:	3,052	0	levels and power issues backlog and assets are in			
Total Project Cost:	176,500	0	Softball Diamond flood	lights were fir	st installed in 19	89.
			Amount requested is con	ncictant with t	ha 2010 Lifa Cva	olo Posorvo
SOURCE(S) OF FUNDIN	<u>NG (\$)</u>		Components			<u>Future</u>
Funding Type	<b>Budget</b>				<b>TOTAL</b>	<b>Phases</b>
<u> </u>	Duuget					
Operating Funded Life Cycle	176,500	0	0 0		0 0	0
Operating Funded Life Cycle	176,500	0	0 0	(	0 0	0
		0	0 0	(		
Operating Funded Life Cycle  TOTAL FUNDING	176,500 176,500	0 rsonnel Non Pe			0 0	
Operating Funded Life Cycle	176,500 176,500		rsonnel Revenues		0 0	
Operating Funded Life Cycle  TOTAL FUNDING	176,500  176,500  Per IMPACT	rsonnel Non Pe	rsonnel Revenues		0 0 0 0 res/(Revenues)	
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DET  DCA	176,500  176,500  Per IMPACT	rsonnel Non Per \$0 \$6	rsonnel Revenues 0 \$0  Amount in	Expenditu	0 0 0 0 res/(Revenues)	
Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET DCA/LIFE CYCLE DET	176,500  176,500  Per IMPACT	rsonnel Non Pe	rsonnel Revenues ) \$0  Amount in	Expenditu n <u>Lif</u> e	0 0 0 0 0 res/(Revenues) \$0	
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DET  DCA	176,500  176,500  Per IMPACT	rsonnel Non Per \$0 \$6	rsonnel Revenues 0 \$0  Amount in	Expenditu  Life  Amou	0 0 0 0 res/(Revenues) \$0 Cycle	0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DET  DCA	176,500  176,500  Per IMPACT	rsonnel Non Per \$0 \$6	rsonnel Revenues 0 \$0  Amount in	Expenditu  Life  Amou	res/(Revenues) \$0  Cycle ant in Study:	176,500 176,500
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DET  DCA  Name	176,500  176,500  IMPACT  Per	rsonnel Non Per \$0 \$1	rsonnel Revenues  0 \$0  Amount in Amount Study	Expenditu  Life  Amou	res/(Revenues) \$0  Cycle unt in Study:	176,500
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DET  DCA	176,500  176,500  IMPACT  Per	rsonnel Non Per \$0 \$1	rsonnel Revenues  0 \$0  Amount in Amount Study	Expenditu  Life  Amou	res/(Revenues) \$0  Cycle ant in Study:	176,500 176,500
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DET  DCA  Name	176,500  176,500  IMPACT  Per	rsonnel Non Per \$0 \$1	rsonnel Revenues  0 \$0  Amount in Amount Study	Expenditu  Life  Amou	res/(Revenues) \$0  Cycle ant in Study:	176,500 176,500
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DET  DCA  Name	176,500  176,500  IMPACT  Per	rsonnel Non Per \$0 \$1	rsonnel Revenues  0 \$0  Amount in Amount Study	Expenditu  Life  Amou	res/(Revenues) \$0  Cycle ant in Study:	176,500 176,500
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DET  DCA  Name	176,500  176,500  IMPACT  Per	rsonnel Non Per \$0 \$1	rsonnel Revenues  0 \$0  Amount in Amount Study	Expenditu  Life  Amou	res/(Revenues) \$0  Cycle ant in Study:	176,500 176,500
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET  DCA/LIFE CYCLE DET  DCA  Name	176,500  176,500  IMPACT  Per	rsonnel Non Per \$0 \$1	rsonnel Revenues  0 \$0  Amount in Amount Study	Expenditu  Life  Amou	res/(Revenues) \$0  Cycle ant in Study:	176,500 176,500



Project Name: Markham Trees for Tomorrow

# 2020 PROJECT FUNDING REQUEST FORM

Page 773 **488** 

\$122,100

Number:	20207

Commission: Community of						New Asset/Ex	pansion
				Ţ	Jseful Life:	50 Pre Ap	proval:
Department: Operations -				Category:			
Project Mgr: Nory Takata			:	Cost Validation:		or rovious	
Ward(s): CW ✓ 1	2 🗆 3 🗆 4 🗆			nent Validation:			
5 🗆	6□ 7□ 8□		Requiren	ient vandation.	Condition a	ssessment	
DETAILED DESCRIPTION	N (SCOPE OF P	ROJECT):					
Initiated in 2007, the program volunteers and Non-Government ducation to promote and maisince the program's inception.  BUILDING MARKHAM'S	ent Organizations ntain the health a	. The program so nd longevity of o	cope is develop	ped annually bas t. To date, over	ed on changi	ng priorities that	focus on
PROJECT COSTS (\$)	2020	Future Phases	NOTES This prod		raa planting :	projects that inco	rnorata
Cost/Quote:	120,000	0				ip opportunities.	rporate
Internal Charges:	0	0	2019-202	22 Goals	•		
External Consulting:	0	0		se tree canopy by ch, Education, F		tnerships	
Sub Total:	120,000	0				tings, 10,000 tre	es, Tree
HST Impact:	2,112	0	Canada,	refreshed brandi		dia campaign an	
Total Project Cost:	122,100	0	education	n programs.			
=	<u> </u>						
SOURCE(S) OF FUNDING	(\$)		Cor	nponents			Entum
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
- Cax	122,100	0	0	0	(	0	
TOTAL FUNDING	122,100						
OPERATING BUDGET IM	IPACT Per	rsonnel Non	Personnel	Revenues	Expenditu	res/(Revenues)	
OT DAMAIN (O DOD GET M)		\$0	\$0	\$0		\$0	
DCA/LIFE CYCLE DETAI	<u>LS</u>						
<u>DCA</u>		,	5.7 A	Amount in	<u>Life</u>	<u>Cycle</u>	
Name			Year Amou	nt Study	— Amou	int in Study:	
					Amou	nt Incl HST	
						in the study	
					1 Cai		
DCA and/or Life Cycle: 1	D 1 1 16.1 1		1/				



Page 775 **483** 

1			TU:
VI	Number:	20208	
	rumber.	20200	

retative Sign	T14-4	e Di	1 -62	Project (	Cost: \$	101,800
	age Implementat	uon - Phase	1 01 3		New Asse	t/Expansion
Fire Services			U	seful Life:	15 Pre	e Approval:
ırks			Category:	Major		
		Co	st Validation:	Third party	estimate	
			=			
		•	-		<u> </u>	
	· · · · · · · · · · · · · · · · · · ·	dividual(a) wh	o hava mada s	ignificant co	entributions t	o the city or
					muioutions t	o the city of
		•				
	Cafe &	Sustainable Co				
UTURE TOGI	ETHER: Sale &	Sustamable Co	minumity			
2020	Future Phases	NOTES	1 1	C.		11 11
100,000	200,000					
0	0	parks where	interpretative	signage hav	e not been ir	
0	0				)	
100 000	200 000				K over 25 ye	ears as these
	<del></del>				Ĭ	
	· <del></del>					
	<u> </u>					
<u> </u>		Comp	onents			— Future
<u>Budget</u>					TOTA	
0	0	0	0	(	)	0
101,800	0	0	0	(	)	0
101.800						0
Per Per	rsonnel Non Pe	rsonnel F	Revenues	Expenditu	res/(Revenu	es)
<u>ACI</u>	\$0 \$	0	\$0		\$0	
<u> </u>						
			Amount in	<u>Life</u>	Cycle	
	<b>T</b> 7					
	Yea	ar Amount	Study	– Amou	int in Study:	
	Yea	ar Amount	Study		ant in Study:	
	Yea	ar Amount	Study	Amou	•	2020
	100,000 1,760 101,800 101,800 101,800 Per	3	3	Category:  Cost Validation:  Requirement Validation:  Revenues  ACT  Some of the parks named of interpretive sign installed.  parks where interpretative linterpretive sign installed.  parks where interpretative linterpretive sign installed.  parks where interpretative linterpretive signs to install total signs to install total signs to install total signs to install total signs to install total signs to install total signs to install total signs to install total signs to install total signs to install total signs to install total signs to i	Category: Major Cost Validation: Third party Cost Validation: Requirement Validation: Other(special party)  SCOPE OF PROJECT): In approved criteria recognizing individual(s) who have made significant content background of the individuals that each park was named for.  UTURE TOGETHER: Safe & Sustainable Community  2020 Future Phases 100,000 200,000 0 0 0 0 100,000 200,000 1,760 3,520 101,800 203,500  Components  Budget  O O O O O O O 101,800 0 O O O O 101,800 0 O O O O 101,800 0 O O O O O 101,800 0 O O O O O O 101,800 0 O O O O O O 101,800 0 O O O O O O O 101,800 0 O O O O O O O O 101,800 0 O O O O O O O O O O 101,800 0 O O O O O O O O O O O O O O O O O	Category: Major  Cost Validation: Third party estimate  Requirement Validation: Requirement Validation: Other(specify in Notes)  SCOPE OF PROJECT):  In approved criteria recognizing individual(s) who have made significant contributions to the background of the individuals that each park was named for.  UTURE TOGETHER: Safe & Sustainable Community    Document   Sustainable   Sus



Page 777 <b>4 9</b>	<b>35</b>

\$16,600

Number:	20211
· iuiiibci •	

Project Name: Re	cycling Con	itainers Rep	olacemen	t (Yr 3 of	(10)					
Commission: Con	mmunity & Fi	ire Services						Repair	/Replace	<u> </u>
						Ţ	Jseful Life:	10	Pre App	proval:
Department: Op Project Mgr: Ma		KS				Category:	Minor			
· ·		1			Cos	st Validation:	Internal pee	er review		
Ward(s): CW	1 2				Requiremen	t Validation:	Condition a	ssessmer	ıt	
		7 8			_					
DETAILED DESC	•									
Replacement of recy  BUILDING MARI					ustainable Cor	nmunity				
					NOTES	-				
PROJECT COSTS	<u>S (\$)</u> <u>20</u>	<u>020</u>	Future 1	<u>Phases</u>	NOTES There are ar	proximately	500 seasonal	recycling	bins in	parks.
Cost/Q	uote:	16,300		0	Project will	replace these	bins (purcha	sed in 20	08) with	some
Internal Cha	arges:	0		0		ins and some				
External Consu	lting:	0		0	(30) will be	d drums (30), replaced.	man top mod	on coma	mers (1	s) and nus
Sub T	Total:	16,300		0	30 recycling	drums at \$20				
HST Im	pact:	287		0		0/unit = \$1,2 ribbon contai		unit – 1 <i>1</i>	400	
Total Project (	Cost:	16,600		0		rd year of a 1				or recycling
SOURCE(S) OF FU	UNDING (\$)				Comp	onents				E4
Funding Type		Budget						<u>T(</u>	<u>OTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life	Cycle	16,600		0	0	0	(	)	0	108,700
TOTAL FUNDIN	NG =	16,600							0	108,700
OPERATING BUI		Per Per	rsonnel	Non Pers	sonnel R	evenues	Expenditu	res/(Rev	enues)	
OPERATING RID	DCSET IMPA	CT					-			
OI EMAIING DUI	DGET IMITA		\$0	\$0		\$0		\$0		
DCA/LIFE CYCLI			\$0	\$0		\$0		\$0		
			\$0	\$0		\$0 Amount in	<u>Life</u>	\$0  Cycle		
DCA/LIFE CYCLI			\$0	\$0 Year				<u>Cycle</u>	dv:	16.600
DCA/LIFE CYCLI DCA			\$0			Amount in	— Amou	Cycle unt in Stu	•	16,600
DCA/LIFE CYCLI DCA			\$0			Amount in	— Amou	Cycle int in Stunt int Incl H	ST	16,600
DCA/LIFE CYCLI DCA Name	E DETAILS			Year	Amount	Amount in	— Amou	Cycle unt in Stu	ST	
DCA/LIFE CYCLI DCA	E DETAILS			Year	Amount	Amount in	— Amou	Cycle int in Stunt int Incl H	ST	16,600
DCA/LIFE CYCLI DCA Name	E DETAILS			Year	Amount	Amount in	— Amou	Cycle int in Stunt int Incl H	ST	16,600
DCA/LIFE CYCLI DCA Name	E DETAILS			Year	Amount	Amount in	— Amou	Cycle int in Stunt int Incl H	ST	16,600
DCA/LIFE CYCLI DCA Name	E DETAILS			Year	Amount	Amount in	— Amou	Cycle int in Stunt int Incl H	ST	16,600
DCA/LIFE CYCLI DCA Name	E DETAILS			Year	Amount	Amount in	— Amou	Cycle int in Stunt int Incl H	ST	16,600
DCA/LIFE CYCLI DCA Name	E DETAILS			Year	Amount	Amount in	— Amou	Cycle int in Stunt int Incl H	ST	16,600



Project Name: Rejuvenation of Community Centres Landscapes-Year 3 of 3

Page 779 **487** 

lumber:	20212

\$63,700

<del></del>				Repair/Replac	e
Commission: Community	y & Fire Services		Ī	<del></del>	proval:
Department: Operations			Category:	-	F10/M1
Project Mgr: Matthew B	Susato		• •		
Ward(s): CW ☐ 1 ✓	2 3 4 4		Cost Validation:		
5 🗆	] 6□ 7□ 8□		Requirement Validation:	Visual inspection	
DETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):			
nardscape and softscape.	-			ances. Landscape modification	ns include
BUILDING MARKHAM	'S FUTURE TOG	ETHER: Sale &	Sustainable Community		
PROJECT COSTS (\$)	<u>2020</u>	Future Phases	NOTES	:1	-4-1i4
Cost/Quote:	62,600	0		implemented over 3 years. To ation. 3 locations per year at 5	
Internal Charges:	0	0		s, Mt. Joy and Armadale. 201	
External Consulting:	0	0		tworthy. 2020 - Crosby, Ang not be proceeding due to Mast	
Sub Total:	62,600	0	Crosby will be replaced v	vith Unionville Library. Boxg	rove was
HST Impact:	1,102	0		ect in 2018 and will be replac	
Total Project Cost:	63,700	0	components of this project	g may be reallocated within thet.	ne
	-			victant with the 2010 Life Cyc	la Pacarva
SOURCE(S) OF FUNDING	<u>G (\$)</u>		Components		<u>Future</u>
Funding Type	<u>Budget</u>			TOTAL	<u>Phases</u>
Operating Funded Life Cycle	63,700	0	0 0	0 0	60,000
TOTAL FUNDING	63,700			0	60,000
	Per Per	rsonnel Non Pe	rsonnel Revenues	Expenditures/(Revenues)	
OPERATING BUDGET I	MPACT	\$0 \$	0 \$0	\$0	
DCA/LIFE CYCLE DETA	AILS				
			Amount in	Life Cycle	
<u>DCA</u>					
DCA Name		Yes		Amount in Study:	63,700
		Yes		Amount in Study:  Amount Incl HST	63,700
		Yes		Amount Incl HST	63,700
Name	. F. dividanci		ar Amount Study	_	
	e: Explain if there is		ar Amount Study	Amount Incl HST	63,700
Name	e: Explain if there is		ar Amount Study	Amount Incl HST	63,700
Name	e: Explain if there is		ar Amount Study	Amount Incl HST	63,700
Name	e: Explain if there is		ar Amount Study	Amount Incl HST	63,700
Name	e: Explain if there is		ar Amount Study	Amount Incl HST	63,700



Page 781**489** 

<u> YIARKHAM</u>				IN	umber:	20	213
Project Name: Relampin	g & Fixtures Re	furhishment		Project (	Cost:	\$27,	000
		THE DISHIELDIE		<u> </u>	Repair	/Replace	e
Commission: Community				Useful Life:	10	Pre App	proval:
Department: Operations Project Mgr: James Bing			Cate	gory: Annual			
	2 3 4		Cost Valid	ation: Internal pe	er review		
	2 □ 3 □ 4 □		Requirement Valida	tion: Visual insp	ection		
DETAILED DESCRIPTIO		DOIECT).					
An independent audit of electromponents based on condit	ion assessment. Un	ntimely outages may	-	s.	ir/mainten	ance of	electrical
			NOTES				
PROJECT COSTS (\$)	<u>2020</u>	Future Phases	Locations to be dete				
Cost/Quote:	22,533	0	ballast, cables, brok based on condition				
Internal Charges: External Consulting:	0 4,000	0	location specific. Tl	nis is an annual pro	ogram and	l funding	g will be
	·		requested each year are in a state of goo		S27k (201	6-2018).	. The asse
Sub Total: _ HST Impact:	26,533 467	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	Amount requested i		he 2019 L	ife Cycl	e Reserve
Total Project Cost:	27,000		Study update.				
	27,000						
=							
=	G (\$)		Components				Future
OURCE(S) OF FUNDING	G (\$) Budget		Components		<u>TO</u>	DTAL	Future Phases
OURCE(S) OF FUNDING		0	Components 0	0	<u>TO</u>	<b>OTAL</b> 0	
OURCE(S) OF FUNDING	Budget	0		0	·		Phases
OURCE(S) OF FUNDING  Funding Type  Operating Funded Life Cycle  TOTAL FUNDING	27,000 27,000	0 rsonnel Non Pe	0		0	0	<u>Phases</u>
OURCE(S) OF FUNDING  Sunding Type  Operating Funded Life Cycle  TOTAL FUNDING	27,000 27,000		0 rsonnel Revenue		0	0	Phases
OURCE(S) OF FUNDING Cunding Type Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET INDICALIFE CYCLE DETA	27,000  27,000  Per	rsonnel Non Pe	0 rsonnel Revenue		res/(Reve	0	Phases
OURCE(S) OF FUNDING  Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET IN  OCA/LIFE CYCLE DETA  DCA	27,000  27,000  Per	rsonnel Non Pe \$0 \$	rsonnel Revenue 0 \$0  Amou	s Expenditu nt in <u>Life</u>	res/(Reve	0	Phases
OURCE(S) OF FUNDING Cunding Type Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET INDICALIFE CYCLE DETA	27,000  27,000  Per	rsonnel Non Pe	rsonnel Revenue 0 \$0  Amou	s Expenditu nt in <u>Life</u> dy	res/(Reve	0 0 enues)	Phases
OURCE(S) OF FUNDING Cunding Type Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET IN OCA/LIFE CYCLE DETA DCA	27,000  27,000  Per	rsonnel Non Pe \$0 \$	rsonnel Revenue 0 \$0  Amou	s Expenditu  nt in <u>Life</u> dy Amou	res/(Reve	0 0 enues)	Phases
OURCE(S) OF FUNDING  Funding Type  Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET IN  OCA/LIFE CYCLE DETA  DCA	27,000  27,000  Per	rsonnel Non Pe \$0 \$	rsonnel Revenue 0 \$0  Amou	s Expenditu  nt in Life dy Amou	res/(Reve \$0 Cycle unt in Stud	0 0 enues)	Phases 39,300



Page 783 **4 3**8

NA DIVILANA	<i>2020 PROJE</i>	ECT FUND	ING REQU	JEST FO	RM	_ [	•	
MARKHAM			~		Nu	mber:	20	)214
Project Name: Shade Str	ucture Refurhish	ment			Project C	ost:	<b>\$78</b> ,	500
						Repair	/Replac	e
Commission: Community				τ	Jseful Life:	35	Pre Ap	proval:
Department: Operations				Category:	Minor			
Project Mgr: Scott Griev			Cos	• •	Internal peer	r review		
Ward(s): $CW \square 1$	2 3 4 🗸				Condition as		t	
5 🗹	6□ 7▼ 8□		Requiremen	t vandation.	Condition as	55055111011	ι	
ETAILED DESCRIPTIO	N (SCOPE OF PR	OJECT):						
efurbishment of shade struc	ctures (gazebo mino	, major and trelli	is) based on con	dition assess	ment.			
ROJECT COSTS (\$)	<u>2020</u>	Future Phases	NOTES 2020 location	ins are:				
Cost/Quote:	77,186	0	Church Stree	et Parkette (N				
Internal Charges:	0	0			Major) Huntin			on d!1
External Consulting:	0	0			ith steel struct of 35 years as			
Sub Total:	77,186	0	This is as pe	r the new sta	ndard implem	ented in	2017. T	There is
HST Impact:	1,358	0			the assets are ere last install			
Total Project Cost:	78,500	0		uested is cons	sistent with the			
OURCE(S) OF FUNDING	<u>G (\$)</u>		Comp	onents				
unding Type	<u>Budget</u>	Huntington Park	Millenium Bandstand	Church Street Park	ette	TO	TAL	<u>Future</u> <u>Phases</u>
perating Funded Life Cycle	78,500	35,525	25,775	17,200	0	78	5,500	0
TOTAL FUNDING	78,500					78	3,500	0

SOURCE(S) OF FUNDING (\$)	<u></u>		Comp	onents			T 4
Funding Type	<u>Budget</u>	Huntington Park	Millenium Bandstand	Church Street Parkette		TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	78,500	35,525	25,775	17,200	0	78,500	0
TOTAL FUNDING	78,500				=	78,500	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

#### **DCA/LIFE CYCLE DETAILS DCA** Amount in Life Cycle Year Amount Study Name 191,800 Amount in Study: Amount Incl HST 78,500 2020 Year in the study DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 785**493** 

MAININI IALI						11	umber.		7213
D. i M						Project	Cost:	\$137	7,600
Project Name: Sportsfie	eld Maintenance d	& Recons	truction				Repair	/Replac	ee
Commission: Communit	y & Fire Services				,	Useful Life:			proval:
Department: Operations	s - Parks						3	rie Ap	provar. —
Project Mgr: James Bin	gham				Category:				
Ward(s): CW ✓ 1	2 3 4 4				Cost Validation				
5 🗆	□ 6□ 7□ 8□			Requirer	nent Validation:	Condition	issessmen	t	
ETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):	:						
ife cycle program includes nay be reallocated to sports uch as sodding of damaged	sfield maintenance nd fields. Locations to	naterials an be determ	d services ined each	that requ spring an	ire immediate and again at the er	ttention unfo	eseen at t	ime of	submission
BUILDING MARKHAM	'S FUTURE TOGI	ETHER:	Safe & Si	ustainable	Community				
PROJECT COSTS (\$)	2020	Future P	hases	NOTES					
Cost/Quote:	135,200		0		e 212 sportsfield nsist of baseball	_			
Internal Charges:	0		0		fields. Fields are				
External Consulting:	0		0		egrees dependir				
Sub Total:	135,200	1	0		ld vary dependir is. This is an ani				
HST Impact:	2,380		0	requested	l each year. The	re is no subst	antial bac	klog w	ithin this
Total Project Cost:	137,600		0		and assets are in existing contract			. Projec	t cost is
				oused on	existing contrac	cts (expire 20	21).		
OURCE(S) OF FUNDIN	<u>G (\$)</u>			Co	mponents				<u>Future</u>
unding Type	<b>Budget</b>						<u>TO</u>	<u>TAL</u>	<u>Phases</u>
perating Funded Life Cycle	137,600		0	0	0	-	0	0	0
TOTAL FUNDING	137,600							0	0
	Per Per	rsonnel	Non Pers	onnel	Revenues	Expenditu	res/(Reve	enues)	
OPERATING BUDGET	IMPACT	\$0	\$0		\$0	•	\$0		
CA/LIFE CYCLE DETA	AILS								
<u>DCA</u>					Amount in	<u>Life</u>	<b>Cycle</b>		
Name			Year	Amou	nt Study	— Amoi	ınt in Stud	dv:	137,600
							int Incl H	· -	137,600
							in the stu		2020
DCA and/and ifa Caral	Flain if them is		41	<del>1</del> /	-4.	1 car	in the stu	luy	2020
DCA and/or Life Cycle	e: Explain il there is	a change ii	n the year	and/or co	St:				



Project Name: Stairway Repairs

#### 2020 PRO

Page 787 **# 98** 

\$247,200

NECT EUNDING DECLIECT ECDM		1 450 1012	IJ
JECT FUNDING REQUEST FORM	Number:	20216	

	<u>-</u>					Repair/Repla	ce
Commission: Community &	Fire Services			Į	Jseful Life:	0 Pre A	pproval:
Department: Operations - P	arks			Category:			r r
Project Mgr: Scott Grieve			Cos	• •	Recent awar	de	
Ward(s): $CW \square 1 \checkmark 2$	□ 3□ 4□				Condition as		
5 🗆 6	□ 7□ 8□		Requiremen	i vandation.	Condition as	sessificit	
DETAILED DESCRIPTION	(SCOPE OF P	ROJECT):					
This project replaces failing and and facilities.  BUILDING MARKHAM'S F			irways offer imp		points to vall	ey land, park,	parking lots
DUILDING MAKKHAM S I	UTURE TUG	EINEK: Saic C	x Sustamable Col	innumity			
PROJECT COSTS (\$)	2020	Future Phases	<u>NOTES</u>				
Cost/Quote:	242,900	0		t will include:		ne lower munic	vinal narking
Internal Charges:	0	0	lot.	wiaiii Sireet C	monvine to u	ie iowei mumo	ipai paiking
External Consulting:	0	0		notty Pine tur	•		
Sub Total:	242,900	0			Irish Rose to	McCowan Unit prices co	onsistent with
HST Impact:	4,275	0	recent award	d plus inflatio	n.	_	
Total Project Cost:	247,200	0			istent with the	2019 Life Cy	cle Reserve
			Study updat	e. 			
SOURCE(S) OF FUNDING (	<u>\$)</u>		Comp	onents			E-4
Funding Type	<b>Budget</b>	Main Street	Romfield-Knotty Pine	<u>Irish R</u>	ose	TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	247,200	80,000	157,000	10,200	0	247,200	0
TOTAL FUNDING	247,200					247,200	0
OPERATING BUDGET IM	PACT Per	rsonnel Non P	Personnel R	evenues	Expenditure	es/(Revenues)	
		\$0	\$0	\$0	9	60	
DCA/LIFE CYCLE DETAIL	<u>S</u>						
<u>DCA</u>		<b>\$</b> 7		Amount in	<u>Life (</u>	<u>Cycle</u>	
Name		Y	ear Amount	Study	– Amoun	t in Study:	247,200
					Amoun	t Incl HST	247,200
					Year i	n the study	2020
		a change in the ve	ear and/or cost:			, _	
DCA and/or Life Cycle: Ex	xplain if there is	a change in the vi					
DCA and/or Life Cycle: Ex	xplain if there is	a change in the ye					
DCA and/or Life Cycle: Ex	xplain if there is	a change in the ye					
DCA and/or Life Cycle: Ex	xplain if there is	a change in the yv					
DCA and/or Life Cycle: Ex	xplain if there is	a change in the ye					
DCA and/or Life Cycle: Ex	xplain if there is	a change in the yo					



Project Name: Tennis Courts Fence Replacement at Armadale Pk

Page 789 <b>497</b>

\$60,600

umber:	20217
umper.	

Commission: Community						
	y & Fire Services		Ţ	Jseful Life:	35 Pre	Approval:
Department: Operations			Category:		20 110	rr
Project Mgr: Dean McD	ermid		Cost Validation:		actimeta	
Ward(s): $CW \square 1$	2 🗆 3 🗆 4 🗆					
5 🗆	6□ 7□ 8□		Requirement Validation:	Condition a	ssessment	
DETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):				
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	dition assessment. Originall	y constructed	d in 1985.	
	•		•	•		
BUILDING MARKHAM'	S FUTURE TOO	ETHED. Safe &	Sustainable Community			
DUILDING WARRIIAW	STOTOKE TOG	ETHER. Sale &	Sustainable Community			
PROJECT COSTS (\$)	2020	Future Phases	NOTES			
			This is an annual program			
Cost/Quote:	59,600	0	This is the first time this construction. Unit cost is			
Internal Charges:	0	0	plus inflation. There is no			
External Consulting:	0	0	a state of good repair. Fer	nce and posts	s to be done in	n conjunction
Sub Total:	59,600	0	with court resurfacing, if deferred.	courts are de	ferred fencin	g will also be
HST Impact:	1,049	0	Amount requested is cons	sistent with tl	ne 2019 Life	Cycle Reserve
Total Project Cost:	60,600	0	Study update.			-,
	Q (A)					
OURCE(S) OF FUNDING	G (\$)		C			
• •			Components			- <u>Future</u>
	Budget		Components		TOTA	
Sunding Type		0	0 0	(		
Operating Funded Life Cycle	Budget 60,600	0	-	(	) (	Phases  0 0
Sunding Type	Budget	0	-	(	) (	L Phases
Operating Funded Life Cycle TOTAL FUNDING	60,600 60,600		-		) (	L         Phases           0         0           0         0
Operating Funded Life Cycle TOTAL FUNDING	60,600 60,600	rsonnel Non Pe	0 0 rsonnel Revenues		res/(Revenue	L         Phases           0         0           0         0
Operating Type Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET I	Budget 60,600 60,600 Per	rsonnel Non Pe	0 0 rsonnel Revenues		) (	L         Phases           0         0           0         0
Operating Type Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET I	Budget 60,600 60,600 Per	rsonnel Non Pe \$0 \$	0 0  rsonnel Revenues 0 \$0  Amount in	Expenditu	res/(Revenue	L         Phases           0         0           0         0
Cunding Type Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET I	Budget 60,600 60,600 Per	rsonnel Non Pe	o 0  rsonnel Revenues 0 \$0  Amount in	Expenditu <u>Life</u>	res/(Revenue \$0	Phases
Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET I OCA/LIFE CYCLE DETA DCA	Budget 60,600 60,600 Per	rsonnel Non Pe \$0 \$	0 0  rsonnel Revenues 0 \$0  Amount in	Expenditu  Life  Amou	res/(Revenue \$0 Cycle unt in Study:	D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET I OCA/LIFE CYCLE DETA DCA	Budget 60,600 60,600 Per	rsonnel Non Pe \$0 \$	0 0  rsonnel Revenues 0 \$0  Amount in	Expenditu  Life  — Amou	res/(Revenue \$0 Cycle ant in Study:	Phases  0 0  0 0  0 0  60,600  60,600
Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET I OCA/LIFE CYCLE DETA DCA Name	Budget 60,600 60,600 Per MPACT	rsonnel Non Pe \$0 \$ Yea	rsonnel Revenues 0 \$0  Amount in Study	Expenditu  Life  — Amou	res/(Revenue \$0 Cycle unt in Study:	D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET I OCA/LIFE CYCLE DETA DCA	Budget 60,600 60,600 Per MPACT	rsonnel Non Pe \$0 \$ Yea	rsonnel Revenues 0 \$0  Amount in Study	Expenditu  Life  — Amou	res/(Revenue \$0 Cycle ant in Study:	Phases  0 0  0 0  0 0  60,600  60,600
Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET I OCA/LIFE CYCLE DETA DCA Name	Budget 60,600 60,600 Per MPACT	rsonnel Non Pe \$0 \$ Yea	rsonnel Revenues 0 \$0  Amount in Study	Expenditu  Life  — Amou	res/(Revenue \$0 Cycle ant in Study:	Phases  0 0  0 0  0 0  60,600  60,600
Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET I OCA/LIFE CYCLE DETA DCA Name	Budget 60,600 60,600 Per MPACT	rsonnel Non Pe \$0 \$ Yea	rsonnel Revenues 0 \$0  Amount in Study	Expenditu  Life  — Amou	res/(Revenue \$0 Cycle ant in Study:	Phases  0 0  0 0  0 0  60,600  60,600
Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET I OCA/LIFE CYCLE DETA DCA Name	Budget 60,600 60,600 Per MPACT	rsonnel Non Pe \$0 \$ Yea	rsonnel Revenues 0 \$0  Amount in Study	Expenditu  Life  — Amou	res/(Revenue \$0 Cycle ant in Study:	Phases  0 0  0 0  0 0  60,600  60,600
Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET I OCA/LIFE CYCLE DETA DCA Name	Budget 60,600 60,600 Per MPACT	rsonnel Non Pe \$0 \$ Yea	rsonnel Revenues 0 \$0  Amount in Study	Expenditu  Life  — Amou	res/(Revenue \$0 Cycle ant in Study:	Phases  0 0  0 0  0 0  60,600  60,600
Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET I OCA/LIFE CYCLE DETA DCA Name	Budget 60,600 60,600 Per MPACT	rsonnel Non Pe \$0 \$ Yea	rsonnel Revenues 0 \$0  Amount in Study	Expenditu  Life  — Amou	res/(Revenue \$0 Cycle ant in Study:	Phases  0 0  0 0  0 0  60,600  60,600



Page 791 **499** 

Project Name: Tomlinson Waterplay Replacement					Number.		, 20	7210		
						<b>Project Cost:</b>		\$337,000		
				Repa					air/Replace	
Commission: Community & Fire Services					Į	Jseful Life:	20		proval:	
Department: Operations - Parks					Category:		20		prover	
Project Mgr: Scott Grieves  Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □  ————————————————————————————————				(	•	Internal peer review				
				Requirement Validation: Condition assessment						
	6 7 8			1						
<b>DETAILED DESCRIPTIO</b> Waterplay at Tomlinson due					. 1'4'	4				
BUILDING MARKHAM'	S FUTURE TOG	ETHER:	Safe & S	ustainable (	Community					
PROJECT COSTS (\$)	2020	F-4 I	DI	NOTES						
	<u>2020</u>	<u>Future I</u>		This is an	annual progran					
Cost/Quote:	331,200		0	for different locations at different amounts depending on type of waterplay. This waterplay was first installed in 1996 and this is the first time it will be replaced.  Amount requested is consistent with the 2019 Life Cycle Reserve Study update.						
Internal Charges: External Consulting:	0		0							
_ <del>-</del>										
Sub Total: _ HST Impact:	331,200 5,829		0 0							
Total Project Cost:	337,000		0							
=	337,000									
SOURCE(S) OF FUNDING (\$)				Components						
Funding Type	Budget						<u>T</u>	OTAL	<u>Future</u> <u>Phases</u>	
Operating Funded Life Cycle	337,000		0	0	0	(	0	0	0	
TOTAL FUNDING	337,000							0	0	
OPERATING BUDGET IMPACT  \$0		rsonnel	el Non Personnel Revenu		Revenues	Expenditures/(Revenues)				
		\$0	\$0	\$0 \$0 \$0		\$0				
DCA/LIFE CYCLE DETA	ALS									
<u>DCA</u>			<b>V</b> /222	Amount in Study		<u>Life</u>	<u>Life Cycle</u>			
Name			Year	Amoul	nt Study	– Amou	ınt in Stı	udy:	337,000	
						Amou	int Incl F	HST	337,000	
						Year	in the st	tudy	2020	
DCA and/or Life Cycle	: Explain if there is	a change i	in the year	and/or cos	st:					
,	-									



_	Page 793 <b>50</b> 8	
	20210	

**Number: 20219** 

				Project C	ost. \$10	,200
Fleet Growth -	Non-Fleet				New Asset/Ex	pansion
& Fire Services			Ţ	Icoful Life:	-	
- Fleet					/ FIE Ap	provai. —
aw/Peter Englezak	os					
2 🗆 3 🗆 4 🗆						
6□ 7□ 8□		Requiremen	it Validation:	Other(specif	y in Notes)	
N (SCOPE OF P	ROJECT):					
Jon- Fleet equipme	ent such as push m	owers, portable	e generators, c	ord trimmers.	leaf blowers ar	nd other
S FUTURE TOGI	ETHER: Safe &	z Sustainable Co	mmunity			
2020	Future Phases	NOTES				
· <u></u>		Additional	equipment for	additional se	asonal staff base	ed on growtl
10,200						
<del>(</del> \$)		Comp	onents			<u>Future</u>
<b>Budget</b>					<b>TOTAL</b>	<u>Phases</u>
10,200	0	0	0	0	0	(
10,200					0	
	rsonnel Non P	ersonnel F	Revenues	Expenditur	es/(Revenues)	
мраст Рег		ersonnel F	Revenues \$0	-	es/(Revenues) \$0	
MPACT Per				-		
MPACT	\$0	\$0	\$0 Amount in	-	\$0	
MPACT	\$0		\$0 Amount in	Life (	\$0	
MPACT	\$0	\$0	\$0 Amount in	Life (	\$0 Cycle	
MPACT	\$0	\$0	\$0 Amount in	Life (  Amour	\$0  Cycle  Int in Study:	
	& Fire Services  Fleet  aw/Peter Englezak  2	Fleet   aw/Peter Englezakos   2	& Fire Services    Fleet	& Fire Services  Fleet  aw/Peter Englezakos  Cost Validation: Requirement Validation: Requirement Validation:  N (SCOPE OF PROJECT):  Non- Fleet equipment such as push mowers, portable generators, costs of the service of the servic	& Fire Services  Fleet  aw/Peter Englezakos  2	## Fleet Growth - Non-Fleet  ## Fire Services  ## Fleet  ## Annual    Category: Annual   Internal peer review



Page 795**503** 

Project Name:   Cupporte Fleet Refurbishing	VARKHAM	2020 PROJ	ECT F	'UNDII	NG REQU	UEST FO	<b>PRM</b>	Number:	20	)220
Commission: Community & Fire Services   Community & Fire Services   Community & Fire Services   Community & Fire Services   Community & Fire Services   Community & Fire Services   Community & Fire Services   Community & Fire Services   Community & Fire Services   Community & Fire Services   Community & Fire Services   Community & Fire Services   Community & Fire Services   Community & Fire Services   Community & Fire Services   Community & Multiple(specify)   Community & Multiple(specify)   Community & Multiple(specify)   Community & Multiple(specify)   Community & Communit	<del></del>	T D. 6 . 14.					Project	t Cost:	\$37,	,800
Commission: Community & Fire Services  Department: Operations - Fleet  Department: Operations - Fleet  Department: Operations - Fleet  Ward(s): Quit   2   3   4	roject Name: Corporate	e Fleet Refurbish	ning					Repai	r/Replac	e
Department: Operations - Fleet	Commission: Community	& Fire Services				ī	Teaful Lifa			
Ward(s): CW  1	Department: Operations -	- Fleet						. 3	rie Ap	provar. —
Requirement Validation: Multiple(specify)  STAILED DESCRIPTION (SCOPE of PROJECT):  uipment and vehicles require periodic refurbishing, rust proofing and corrosion protection to meet the Ministry of Transportation ety requirements and to ensure life cycle requirements are met. Program helps to mitigate maintenance costs and keeps the simple tin a state of good repair.  Safe & Sustainable Community  ROJECT COSTS (\$) 2020 Future Phases  Cost/Quote: 37,100 0 0 Internal Charges: 0 0 0 0 Sub Total: 37,100 0 0 HST Impact: 653 0 0 HST Impact: 653 0 0 Total Project Cost: 37,800 0 0  COTAL FUNDING (\$) Components  Personnel Sudget Future Phases  Personnel Sudget Requirement Validation - condition assessment and legislative compliance. This is an annual program. 3 year average is \$37k Amount requested is consistent with Lice Cycle Reserve Study update.  Cost/Quote: 37,800 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Project Mgr: Raymond L	aw/Peter Englezak	os							
ETAILED DESCRIPTION (SCOPE OF PROJECT):  uipment and vehicles require periodic refurbishing, rust proofing and corrosion protection to meet the Ministry of Transportation rety requirements and to ensure life cycle requirements are met. Program helps to mitigate maintenance costs and keeps the uipment in a state of good repair.  UILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community  ROJECT COSTS (\$) 2020 Future Phases  Cost/Quote: 37,100 0 0 Internal Charges: 0 0 0 External Consulting: 0 0 0 Sub Total: 37,100 0 0 HST Impact: 653 0 0 Total Project Cost: 37,800 0 0  UIRCE(S) OF FUNDING (\$) Components  UIRCE(S) OF FUNDING (\$) Components  Future Phases  Future Phases  Cost/Quote: 37,800 0 0 0 0 0 0 0  TOTAL FUNDING (\$) So \$0 \$0  TOTAL FUNDING (\$) So \$0  TOTAL FUNDING (\$) So \$0  TOTAL FUNDING (\$) So \$0  TOTAL FUNDING (\$) So \$0  TOTAL FUNDING (\$) So \$0  TOTAL FUNDING (\$) So \$0  TOTAL FUNDING (\$) So \$0  TOTAL FUNDING (\$) So \$0  TOTAL FUNDING (\$) So \$0  TOTAL FUNDING (\$) So \$0  TOTAL FUNDING (\$) So \$0  TOTAL FUNDING (\$) So \$0  TOTAL FUNDING (\$) So \$0  TOTAL FUNDING (\$) So \$0  TOTAL FUNDING (\$) So \$0  TOTAL FUNDING (\$) So \$0  TOTAL FUNDING (\$) So \$0  TOTAL FUNDING (\$) So \$0  TOTAL FUNDIN	Ward(s): $CW \boxed{\bullet} 1 \square$	2 🗆 3 🗆 4 🗆							V	
pulpment and vehicles require periodic refurbishing, rust proofing and corrosion protection to meet the Ministry of Transportation fety requirements and to ensure life cycle requirements are met. Program helps to mitigate maintenance costs and keeps the uipment in a state of good repair.    Continuing Markham's Future Together:   Safe & Sustainable Community	5 🗆	6□ 7□ 8□			Requiremen	it Validation:	Multiple(	specify)		
Total Project Cost: 37,800 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT	·):						
ROJECT COSTS (\$) 2020 Future Phases  Cost/Quote: 37,100 0  Internal Charges: 0 0 0  External Consulting: 0 0  Sub Total: 37,100 0  HST Impact: 653 0 0  Total Project Cost: 37,800 0  Everating Funded Life Cycle 37,800 0 0  Future Phases  Requirement Validation - condition assessment and legislative compliance. This is an annual program. 3 year average is \$37k Amount requested is consistent with Lice Cycle Reserve Study update.  Components  Future Phases  Project includes rust protection, body work and painting. Requirement Validation - condition assessment and legislative compliance. This is an annual program. 3 year average is \$37k Amount requested is consistent with Lice Cycle Reserve Study update.  Future Phase Study u	fety requirements and to en uipment in a state of good	sure life cycle requerepair.	uirements	are met. P	rogram helps	to mitigate m				
Personnel   Personnel   Revenues   Expenditures/(Revenues)				Phases						
Internal Charges: 0 0 0 0	Cost/Ouote:	<del></del>								
External Consulting:  Sub Total:  37,100  HST Impact:  653  Total Project Cost:  37,800  DIRCE(S) OF FUNDING (\$)  Future Plant Funding Type  Budget  Future Plant Funding Type  Personnel  Subget Total  Personnel  Subget Funding Funded Life Cycle  37,800  O  O  O  O  O  O  O  O  O  O  O  O	_			0	compliance	This is an an	nual progra	am. 3 year	average	is \$37k.
Sub Total:	<del>-</del>			0		uested is cons	sistent with	Lice Cycl	le Reserv	e Study
HST Impact:	Sub Total:	37 100	-		update.					
Components   Components   Future Phase   Personnel   Non Personnel   Revenues   Expenditures/(Revenues)   Future Phase   Personnel   Non Personnel   Revenues   Expenditures/(Revenues)   Future Phase   Personnel   Non Personnel   Revenues   Personnel   Revenues   Future Phase   Personnel   Revenues   Personnel	_		-							
Future   F	Total Project Cost:	37,800		0						
Future   F	URCE(S) OF FUNDING	<del>S</del> (\$)			Comp	onents				
PERATING BUDGET IMPACT  So So So So So So So So So So So So So	nding Type	Budget						<u>T</u> (	OTAL	Future Phases
PERATING BUDGET IMPACT  \$0 \$0 \$0 \$0 \$0  CA/LIFE CYCLE DETAILS  DCA Name  Year Amount in Study  Amount in Study:  Amount in Study:  Amount in Study:  Amount in Study:  Year in the study  Year in the study  202	erating Funded Life Cycle	37,800		0	0	0		0	0	
PERATING BUDGET IMPACT  \$0 \$0 \$0 \$0 \$0  CA/LIFE CYCLE DETAILS  DCA Name  Year Amount in Study  Amount in Study:  Amount in Study:  Amount in Study:  Amount in Study:  Year in the study  Year in the study  202	OTAL FUNDING	37,800							0	
PERATING BUDGET IMPACT  \$0 \$0 \$0 \$0 \$0  CA/LIFE CYCLE DETAILS  DCA Name  Year Amount in Study  Amount in Study: 37,80 Amount Incl HST 37,80 Year in the study 202										
\$0 \$0 \$0 \$0 \$0  CA/LIFE CYCLE DETAILS  DCA  Name  Year Amount in Study  Amount in Study: 37,80  Amount Incl HST 37,80  Year in the study 202		Per Per	rsonnel	Non Per	rsonnel R	Revenues	Expendit	ures/(Rev	venues)	
DCA NameYearAmount in StudyLife CycleYearAmount in Study:37,80Amount Incl HST37,80Year in the study202	PERATING BUDGET IN	MPACI	\$0	\$0	)	\$0		\$0		
Name Year Amount Study Amount in Study: 37,80 Amount Incl HST 37,80 Year in the study 202	CA/LIFE CYCLE DETA	ILS								
Amount in Study: 37,80  Amount Incl HST 37,80  Year in the study 202	<u>DCA</u>					Amount in	<u>Lif</u>	<u>fe Cycle</u>		
Amount Incl HST 37,80  Year in the study 202	Name			Yea	r Amount	Study	— Am	ount in Stu	ıdv:	37 800
Year in the study 202									- =	
	DG1 1/2 777 -	<b></b>	_		•		i ea	i iii tile st	uuy	2020
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:	DCA and/or Life Cycle:	Explain if there is	a change	in the year	r and/or cost:					



Page 797

(IYI <u>ARKHAM</u>				Number:	20221
Project Name: Corpora	ta Flaat Danlacam	ant - Fira		<b>Project Cost:</b>	\$918,800
	<u>-</u>	ient - rire		Repair	r/Replace
Commission: Communit	ty & Fire Services		1	Useful Life: 5	Pre Approval:
Department: Operation:			Category:	Major	11
Project Mgr: Dave Dec			• •	Other(specify in No	tes)
	2 3 4 4		Requirement Validation:		
	□ 6□ 7□ 8□		<b>1</b>		
DETAILED DESCRIPTION	· · · · · · · · · · · · · · · · · · ·				
2020 Annual Fleet Replace optimal replacement intervacement intervacement in this program has program. Total units for result.  BUILDING MARKHAM	als (ORI) which identate reached or surparplacement - 2 units	attifies the most cost assed the ORI. User	effective time period for re	placement. All vehicle	es and equipment
			_		
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	NOTES Useful life varies from 5	to 10 years based on y	mita trmas Cost
Cost/Quote:	902,926	0	Validation- Most recent 1	•	• 1
Internal Charges:	0	0	validation - Condition as	sessment, vehicle relia	ability & down time,
External Consulting:	0	0	& operating costs. Units be purchased with the mo		1 0
Sub Total:	902,926	0	purchase providing maxi	mized fuel economy w	vith minimal
HST Impact:	15,891	0	emissions. Project compl due to time required to be		
<b>Total Project Cost:</b>	918,800	0	foreign exchange used w		
SOURCE(S) OF FUNDIN	IG (\$)		Components		
Funding Type	Budget	Fire	Fire Apparatus	<u>T(</u>	Tuture  OTAL Phases
Operating Funded Life Cycle	918,800	38,552	880,248 0	0 91	8,800 0
TOTAL FUNDING	918,800			91	8,800 0
OPERATING BUDGET	<u>IMPACT</u>	rsonnel Non Pe \$0 \$		Expenditures/(Rev	enues)
DCA/LIFE CYCLE DET	AILS				
<u>DCA</u> Name		Yea	Amount in ar Amount Study	<u>Life Cycle</u>	
Name			Timount Study	— Amount in Stu	dy: 1,121,500
				Amount Incl H	IST 918,800
				Year in the str	udy 2020
DCA and/or Life Cycle	e: Explain if there is	a change in the year	ar and/or cost:		
Deferred 8 units.		<u> </u>			

Project	Corporate Fleet Replacement - Fire
2020 Capital Request	\$918,800
Funding Source	Life Cycle Reserve
Description of Program	2020 Annual Fleet Replacement Program based on the Council adopted Corporate Fleet Policy
	Guidelines. Life cycle costing targets optimal replacement intervals (ORI) which identifies the most cost
	effective time period for replacement. All vehicles and equipment contained in this program have
	reached or surpassed the ORI. User Departments are consulted with respect to the units in this program.
	Total units for replacement - 2 units
Project Rationale	2020 Annual Fleet Replacement Program is based on the Council adopted Corporate Fleet Policy
	Guidelines and condition assessment. To maintain current service levels for all user departments.
Legislative Requirement	n/a
History	
Future Phases	This funding is requested each year.
Total Project Cost	n/a
Related Projects	
Related Maps	
Alignment to the Strategic Plan	
	Providing reliable fleet units allowing effective municipal services to local residents and businesses.
	Promoting the continued use of new technology along with alternate energy solutions that reduce fuel
	consumption and improved fleet efficiencies with reductions in overall fleet emissions.

### 2020 Corporate Fleet Replacement Program - Fire

						2020		2020	
Asset ID	Inventory Description	Model Year	Mileage (km)	Usage (hours)	Facility	Inflated Cost	Adjustment	Updated Cost	Project Notes
9950	FULL SIZE WINDOW VAN-E350	2008	85,862		FIRE-1- Fire	37,885		37,885	Deferred from 2018 to 2020
	SMEAL PUMPER RESCUE SPARTON METROSTAR-PUMPER		84,158	4,228					
9991	RESCUE	2012			FIRE-1- Fire Apparatus	865,041		865,041	US\$640,771 @ 1.35 conversion rate
						902,926		902,926	
					HST Impact	15,891		15,891	
					Total - Project Cost	918,817		918,817	
					Rounded Off - Project				
					Cost	918,800		918,800	

#### REVISED PROJECT COST

No. of Unit	Category	Pre-Tax	HST Impact	Project Cost		
1	Fire	37,885	667	38,552		
1	Apparatus	865,041	15,225	880,266		
		902,926	15,891	918,817		
		Rounded Off -				
		Project Cost 918,80				



Page 803 5 488

2020 PROJECT FUNDING REQUEST FORM	Number:	20222	
P	roject Cost:	\$100,200	

Project Name: (	Corporate I	Fleet Replacen	nent - Ice I	Resurfac	ing Ma	chine				
Commission: C	Community &	Fire Services						Repair/Re	eplace	
_						1	Jseful Life:	10 Pro	e Appı	oval: $\square$
Department: C		v/Peter Englezak	OS.			Category:	Major			
-	-	$2 \square 3 \square 4 \square$	03	<del></del>		Cost Validation:	Other(speci	fy in Notes)	ı	
Ward(s): C					Requirer	nent Validation:	Multiple(sp	ecify)		
		5□ 7□ 8□								
DETAILED DES		•			21 1	1 C	El ( D.1)	0.11.1		1141
Part of the 2020 A assessment. Life c replacement. All e respect to the units <b>BUILDING MA</b>	ycle costing equipment costs in this prog	targets Optimal I ntained in this pr ram. Unit for re	Replacement ogram have placement -	t Intervals reached of 1 ice resu	s (ORI) wor surpassurfacing n	which identifies the order the order. Use	he most cost or er Departmen	effective tim	e perio	od for
PROJECT COST	ΓS (\$)	2020	Future Pl	19565	NOTES					
	Quote:	98,500	<u>ruture rr</u>			idation- most red				
	_				1	nent validation - g costs. Pending		•		,
Internal Cons	•	0		0	and make	e may change de	pending on a	vailability. T	Γhis pr	ogram and
			•			will be requested ent program wil				
	Total:	98,500				gy available at ti				
HS1 1 Total Projec	Impact:	1,734			economy	with minimal en	missions.			
Total Trojec	=	100,200			Amount	requested is con	sistent with L	ice Cycle Re	eserve	Study
SOURCE(S) OF	FUNDING	(\$)			Cor	mponents				
Funding Type		Budget						<u>TOTA</u>	<u>AL</u>	Future Phases
Operating Funded La	ife Cycle	100,200		0	0	0	(	)	0	0
TOTAL FUND	ING	100,200							0	0
ODED ATING D	IDOET IM	Per Per	rsonnel 1	Non Pers	onnel	Revenues	Expenditu	res/(Revenu	ies)	
OPERATING B	UDGET IM	PACI	\$0	\$0		\$0		\$0		
DCA/LIFE CYC	LE DETAIL	<u>S</u>								
<u>DCA</u>						Amount in	<u>Life</u>	Cycle		
Name				Year	Amou	int Study	— Amou	nt in Study:	1	00,200
								nt Incl HST		00,200
								in the study		2020
DCA 1/ 1					1/		1 Cai	in the study		2020
DCA and/or I	Life Cycle: E	xplain if there is	a change in	the year	and/or co	st:				



Page 805 🗖 🗫

M	2020 PROJECT FUNDING REQUEST FORM	Number:		]
	Pro	ject Cost:	\$710,500	

Project Name:	<b>Corporate Fleet Replacement - Non-Fire</b>		ŭ		Ψ. 10,200
,	- Ton The			Repa	ir/Replace
Commission:	Community & Fire Services	Ī	Jseful Life:	5	Pre Approval:
•	Operations - Fleet Raymond Law/Peter Englezakos	Category:		3	Tie rippiovai.
	CW ✓ 1 2 3 4 4	Cost Validation:	· · ·		otes)
	5 6 7 8	Requirement Validation:	Multiple(spe	ecify)	

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

2020 Annual Fleet Replacement Program based on the Council adopted Corporate Fleet Policy Guidelines. Life cycle costing targets optimal replacement intervals (ORI) which identifies the most cost effective time period for replacement. All vehicles and equipment contained in this program have reached or surpassed the ORI. User Departments were consulted with respect to the units in this program. Total units - 24 units

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Stewardship of Money & Resources

PROJECT COSTS (\$)	<u>2020</u>	Future Phases
Cost/Quote:	698,165	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	698,165	0
HST Impact:	12,288	0
Total Project Cost:	710,500	0

#### **NOTES**

Useful life varies - 4 to 12 years based on units types. Operations-Non Fleet (\$55k) includes cord trimmers, chainsaws, blowers, etc. Cost Validation- Most recent purchase of similar unit type; Requirement validation - Condition assessment, vehicle reliability & down time, & operating costs. Units specified in this program will be purchased with the most recent technology available at time of purchase providing maximized fuel economy with minimal emissions. Completion estimated at Q2 2021 due to different vehicle built cycle.

SOURCE(S) OF FUNDING (\$)			Compo	nents			Entuna
Funding Type	Budget	<u>Licensed</u>	Non Licensed	Non Fleet		TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	710,500	425,702	230,757	54,041	0	710,500	0
TOTAL FUNDING	710,500				=	710,500	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	<b>Expenditures/(Revenues)</b>	
OI ERMINO BODGET IVITALET	\$0	\$0	\$0	\$0	

<u>DCA</u>	Amount in	Life Cycle	
Name	Year Amount Study	— Amount in Study:	4,016,400
		Amount Incl HST	710,500
DCA and/or Life Cycle: Explain if there	is a change in the year and/or cost.	Year in the study	202
DCA and/or Life Cycle: Explain if there Deferred 39 units.	is a change in the year and/or cost:	Year in the study	202

Project	Corporate Fleet Replacement – Non fire
2020 Capital Request	\$710,500
Funding Source	Life Cycle Reserve
Description of Program	2020 Annual Fleet Replacement Program based on the Council adopted Corporate Fleet Policy
	Guidelines. Life cycle costing targets optimal replacement intervals (ORI) which identifies the most cost
	effective time period for replacement. All vehicles and equipment contained in this program have
	reached or surpassed the ORI. User Departments are consulted with respect to the units in this
	program. Total units - 24 units
Project Rationale	2020 Annual Fleet Replacement Program based on the Council adopted Corporate Fleet Policy
	Guidelines. To maintain current service levels for all users department
Legislative Requirement	n/a
History	
Future Phases	This funding is requested each year.
Total Project Cost	n/a
Related Projects	
Related Maps	n/a
Alignment to the Strategic Plar	
	Providing reliable fleet units allowing effective municipal services to local residents and businesses.
	Promoting the continued use of new technology along with alternate energy solutions that reduce fuel
	consumption and improved fleet efficiencies with reductions in overall fleet emissions.

2020	Corporate Fleet Replacement - Non-Fire									
			Mileage	Usage			2020		2020	
Asset ID	Inventory Description	Model Year	(km)	(hours)	Facility	Category	Inflated Cost	Adjustment	<b>Updated Cost</b>	Project Notes
3323	19500 GVW FLATBED WITH 9` ARCTIC PLOW-TERRASTAR	2012	90,954		OPERATIONS / PARKS-Licensed	Licensed	90,048		90,048	
3324	19500 GVW FLATBED WITH 9` ARCTIC PLOW-TERRASTAR	2012	82,854		OPERATIONS / PARKS-Licensed	Licensed	90,048		90,048	
	COMPACT VAN FWD-GRAND CARAVAN COMPACT SUV FWD HYBRID-ESCAPE	2012 2008	61,071 92,657		OPERATIONS-Licensed ENGIN-1-Licensed	Licensed Licensed	22,564 39,323	22,429 5,670		Unit has signficant corrosion. Switch unit with 1269 (Rds. Supervisor). Replace 1269 w/ Compact SUV PHEV Deferred from 2019 to 2020. Specification change to Compact SUV PHEV
5260	FULL SIZE VAN-NV 2500	2012	72,901		ASSET MAN-Licensed	Licensed	43,819		43,819	<b>.</b>
	FULL SIZE VAN-NV 2500	2012	83,641		ASSET MAN-Licensed	Licensed	43,819		43,819	
		2012	203,638			+			28,580	
1239	FULL SIZE 3/4 TON PICKUP 2WD-RAM 2500	2012	203,638		OPERATIONS-Licensed	Licensed	28,580		28,580	
1207	TURF TILLER-TILLR	2000			OPERATIONS / PARKS-Non Licensed	Non Licensed	26,300		26,300	
	COMPACT VAN FWD-UPLANDER	2008	45,248		ENGIN-1-Licensed	Licensed	24,691		,	Deferred from 2019 to 2020.
8033	CONFACT VAINTWO-OFLANDER	2008	45,246		ENGIN-1-LICEIISEU	Licenseu	24,091		24,091	Significant corrosion to underbody.
4565	ELECTRIC POWERED UTILITY VEHICLE-ELECTRIC HAULER	2010		2,507	OPERATIONS-Non Licensed	Non Licensed	15,046		15,046	
3400	ZERO TURN 60" DIESEL POWERED-ZD21F ZERO TURN	2012		1,539	OPERATIONS-Non Licensed	Non Licensed	14,505		14,505	
3401	ZERO TURN 60 " DIESEL POWERED-ZD21F ZERO TURN	2012		2,050	OPERATIONS-Non Licensed	Non Licensed	14,505		14,505	
3402	ZERO TURN 60" DIESEL POWERED-ZD21F ZERO TURN	2012		1,660	OPERATIONS-Non Licensed	Non Licensed	14,505		14,505	
3403	ZERO TURN 60" DIESEL POWERED-ZD21F ZERO TURN	2012		1,014	OPERATIONS-Non Licensed	Non Licensed	14,505		14,505	Engine failure.
	ZERO TURN 60" DIESEL POWERED-ZD21F ZERO TURN	2012		1,808	OPERATIONS-Non Licensed	Non Licensed	14,505		14,505	
3495	ZERO TURN MOWER 60" DIESEL POWERED-ZD21F ZERO TURN	2012		1,585	OPERATIONS-Non Licensed	Non Licensed	14,505		14,505	
3476	ZERO TURN 60" REAR DISCHARGE DIESEL -ZD21F ZERO TURN	2011		1,573	OPERATIONS-Non Licensed	Non Licensed	14,071		14,071	Deferred from 2019 to 2020
3480	ZERO TURN 60" REAR DISCHARGE DIESEL -ZD21F ZERO TURN	2011		1,789	OPERATIONS-Non Licensed	Non Licensed	14,071		14,071	Deferred from 2019 to 2020
3481	ZERO TURN 60" REAR DISCHARGE DIESEL -ZD21F ZERO TURN	2011		1,640	OPERATIONS-Non Licensed	Non Licensed	14,071		14,071	Deferred from 2019 to 2020
3482	ZERO TURN 60" REAR DISCHARGE DIESEL -ZD21F ZERO TURN	2011		1,637	OPERATIONS-Non Licensed	Non Licensed	14,071		14,071	Deferred from 2019 to 2020
4035	ZERO TURN 60" REAR DISCHARGE DIESEL -TURN	2011		1,505	OPERATIONS-Non Licensed	Non Licensed	14,071		14,071	Deferred from 2019 to 2020
4193	ZERO TURN 60" REAR DISCHARGE DIESEL -ZD21F ZERO TURN	2011		1,626	OPERATIONS-Non Licensed	Non Licensed	14,071		14,071	Deferred from 2019 to 2020
4218	ZERO TURN 60"REAR DISCHARGE DECK-ZD21F ZERO TURN	2011		2,087	OPERATIONS-Non Licensed	Non Licensed	13,963		13,963	Deferred from 2019 to 2020
1967	TANDEM AXLE TRAILER-TRAIL	2001			OPERATIONS-Licensed	Licensed	7,349		7,349	
					OPERATIONS- Operation Non Fleet <	Operation Non Fleet <				
All	Operation Non Fleet < \$5,000 or Misc	2017			\$5,000 or Misc	\$5,000 or Misc	53,060		53,060	
							670,067		698,166	
						HST impact	11,793		12,288	
						Total Project Cost	681,860		710,453	
						Rounded Off - Project				
						Cost	681,900		710,500	
						ORIGINAL PROJECT	COST			
						No. of Units	Category	Pre-Tax	HST Impact	Project Cost
						9	Licensed	418,339	7,363	425,702
						15	Non Licensed	226,766	3,991	230,757
						-	Operations Nor	53,060	934	53,994
							1	698,165	12.288	710,453

Asset ID	Inventory Description N	Model Year	Mileage (km)	Usage (hours)	Facility	Category	2020 Inflated Cost	Adiustment	2020 Updated Cost	Project Notes
			()	(				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,
									Rounded Off -	
									Project Cost	710,500



Page 811 **5 79**Number: 20224

			_			Project C	Cost:	\$378	,400
Project Name: Corpora		nent - Wat	erworks				Repa	ir/Replac	e
Commission: Communit	y & Fire Services				Ţ	Jseful Life:	8	Pre An	proval:
Department: Operations					Category:		O	11011p	provur.
Project Mgr: Raymond	Law/Pete Englezak	os/Eddy Wu		-	Cost Validation:		uda .		
Ward(s): CW ✓ 1	2 3 4 4							ataa)	
5 🗆	□ 6□ 7□ 8□			Requirem	ent Validation:	Other(speci	ly in No	otes)	
DETAILED DESCRIPTION art of the Annual Fleet Resurgets Optimal Replacement (4 units) contain BUILDING MARKHAM	placement Program nt Intervals (ORI) w ed in this program h	based on the which identification identification	es the mo or surpas	st cost eff sed the O	ective time peri	od for replac	ement.	All vehic	
				NOTES					
PROJECT COSTS (\$)	<u>2020</u>	Future Pl		4 units - 1	Requirement Va				ed
Cost/Quote:	371,843		0	replaceme	ent criteria, pend	ding condition	n assess	ment.	
Internal Charges:	0				n this request w y available at ti				
External Consulting:	0				with minimal en		se prov	iding maz	annum ruci
Sub Total:	371,843				time is one year		pletion	estimated	d at Q1 2021.
HST Impact:	6,544		0						
<b>Total Project Cost:</b>	378,400		0						
OURCE(S) OF FUNDIN	<u>G (\$)</u>			Con	nponents				
unding Type	Budget						<u>T</u>	OTAL	<u>Future</u> <u>Phases</u>
aterworks	378,400		0	0	0	C		0	0
TOTAL FUNDING	378,400							0	0
	_				_				
PERATING BUDGET	IMPACT Pe		Non Pers	onnel	Revenues	Expenditu		venues)	
	A TT C	\$0	\$0		\$0		\$0		
CA/LIFE CYCLE DETA DCA	AILS					т.е	G 1		
Name			Year	Amou	Amount in Study	Life	<u>Cycle</u>		
rame					Staay	— Amou	nt in St	udy:	553,800
						Amou	nt Incl	HST	378,400
						Year	in the s	tudy	2020
DCA and/or Life Cycle	e. Explain if there is	s a change in	the year	and/or cos	st·				
3 units deferred.	e. Explain if there is	, a change m	the year	and/or cos					
5 units deferred.									

### 2020 Waterworks Fleet Replacement Program

						2020		2020	
Asset ID	Inventory Description	Model Year	Mileage (Km)	Usage (Hours)	Category	Inflated Cost	Adjustment	Updated Cost	Project Notes
2191	CUBE VAN CAMERA TRUCK-F550	2010	58,169		WATER- Licensed	197,345		197,345	Low km's but high hours. Engine needs
									to run while conducting camera
									inspections.
2197	ONE TON FLATBED DIESEL 9` DUMP & CRANE-RAM 3500	2008	56,427		WATER- Licensed	79,198		79,198	Deferred from 2019 to 2020
2197	Spec. change to 5500 series 19500 GVW Flatbed					27,302		27,302	Upsized truck required to be compliant
									with load ratings. Winch on current
									unit is not certifiable for our use.
2171	FULL SIZE CARGO VAN-G1500 EXPRESS	2012	106,979		WATER- Licensed	33,999		33,999	
2186	FULL SIZE CARGO VAN-G1500 EXPRESS	2012	88,088		WATER- Licensed	33,999		33,999	
						371,843		371,843	
					HST impact	6,544		6,544	
					Total Project Cost	378,387		378,387	
					Rounded Off				
					Project Cost - 8				
					units	378,400		378,400	

#### REVISED PROJECT COST

	No. of Unit	Category	Pre-Tax	HST Impact	Project Cost
t	4	Licensed	371,843	•	
			371,843	6,544	378,387
•		•		Rounded Off - Project Cost	378 400



Page 815 **523** 

Purchase and acquisition of one 11-ft wide area mower and one 16 ft. deck-over trailer. Additional mower required to maintain leve service due to growth in parks and open space. The deck-over trailer will allow larger wide-area mowers to be transported from loc to location without being driven on the roadway; reducing wear/damage to mower components as they are not designed to be transported via roadway.  **BUILDING MARKHAM'S FUTURE TOGETHER:**    Exceptional Services by Exceptional People**    PROJECT COSTS (\$)				Number:	20225
Commission:   Community & Fire Services   Department: Operations - Fleet   Department: Operations - Fleet   Project Mgr: Raymond Law/Peter Englezakos   Requirement Validation:   Recent awards   Requirement Validation:   Recent awards   Requirement Validation:   Other(specify in Notes)				<b>Project Cost:</b>	\$98,900
Commission   Community & Fire Services	- Parks			New	Asset/Expansion
Department: Operations - Fleet Project Mgr: Raymond Law/Peter Englezakos Ward(s):	& Fire Services				
Ward(s): CW	Fleet		Catagon		Pie Appiovai: —
Requirement Validation: Other(specify in Notes)    Component   Com	w/Peter Englezak	os			
DETAILED DESCRIPTION (SCOPE OF PROJECT):  Purchase and acquisition of one 11-ft wide area mower and one 16 ft. deck-over trailer. Additional mower required to maintain leve service due to growth in parks and open space. The deck-over trailer will allow larger wide-area mowers to be transported from loc to location without being driven on the roadway; reducing wear/damage to mower components as they are not designed to be transported via roadway.  BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People  PROJECT COSTS (\$) 2020 Future Phases  Cost/Quote: 97,200 0 Internal Charges: 0 0 0 External Consulting: 0 0 0 Sub Total: 97,200 0 HST Impact: 1,711 0 0 Total Project Cost: 98,900 0 0  SOURCE(S) OF FUNDING (\$) Components  Future Phases  COA 98,900 7,100 91,800 0 0 98,900  TOTAL FUNDING 98,900 7,100 91,800 0 0 98,900  TOTAL FUNDING 98,900 S5,650 S0 \$5,650  DEA/LIFE CYCLE DETAILS  DCA Name Year Amount in Study  Amount in Study:  Amount in Study:  Amount in Study:  Amount in Study:  Amount Incl HST Year in the study	2□ 3□ 4□			-	
Purchase and acquisition of one 11-ft wide area mower and one 16 ft. deck-over trailer. Additional mower required to maintain leve service due to growth in parks and open space. The deck-over trailer will allow larger wide-area mowers to be transported from loc to location without being driven on the roadway; reducing wear/damage to mower components as they are not designed to be transported via roadway.  BUILDING MARKHAM'S FUTURE TOGETHER:  Exceptional Services by Exceptional People  PROJECT COSTS (S) 2020 Future Phases  Cost/Quote: 97,200 0 Internal Charges: 0 0 0 External Consulting: 0 0 0 External Consulting: 0 0 0 HST Impact: 1,711 0 0 Total Project Cost: 98,900 0  COURCE(S) OF FUNDING (\$)  COURCE(S) OF FUNDING (\$)  COCA 98,900 7,100 91,800 0 0 98,900  TOTAL FUNDING 98,900  TOTAL FUNDING 98,900  Personnel Non Personnel Revenues Expenditures/(Revenues)  \$5,650  \$5,650  COALIFE CYCLE DETAILS  DCA  Name  Year Amount in Study:  Amount in Study:  Amount in Study:  Amount in Study:  Amount Incl HST  Year in the study  Teating wear/damage to mower components as they are not designed for more components as they are not designed from loc to designed to be transported with one wear and one 16 ft. deck-over trailer will allow larger wide-area mowers to be transported from loc to designed from loc to designed to be transported wear/damage to mower components as they are not designed from loc to designed to be transported with open components as they are not designed to be transported with constant as they are not designed to be transported with constant as they are not designed to be transported with constant as they are not designed to be transported with constant as they are not designed to be transported with constant as they are not designed to be transported with constant as they are not designed to be transported with constant as they are not designed to be transported with constant as they are not designed to be transported with constant as they are not designed to be transported with constant as they are not d	6□ 7□ 8□		Requirement validation	n: Other(specify in No	tes)
Service due to growth in parks and open space. The deck-over trailer will allow larger wide-area mowers to be transported from loc to location without being driven on the roadway; reducing wear/damage to mower components as they are not designed to be transported via roadway;  BUILDING MARKHAM'S FUTURE TOGETHER:  Exceptional Services by Exceptional People  PROJECT COSTS (\$) 2020	N (SCOPE OF P	ROJECT):			
Cost/Quote: 97,200	s and open space. 'en on the roadway	The deck-over trailer; reducing wear/day	er will allow larger wide-a mage to mower componer	area mowers to be trans nts as they are not desig	sported from location
Cost/Quote: 97,200	2020	Futura Dhacas	NOTES		
Internal Charges: 0			Cost based on recent qu	iotes.	
External Consulting:   0					
Sub Total:   97,200					
HST Impact:   1,711   0   0     Total Project Cost:   98,900   0     SOURCE(S) OF FUNDING (\$)					
Cource(S) OF FUNDING (\$)   Components   Future   Funding Type   Budget   Trailer   Mower   TOTAL   Phase   Mower   TOTAL   Phase   DCA   98,900   7,100   91,800   0   0   98,900	_				
Funding Type   Budget   Trailer   Mower   TOTAL   Phase					
Funding Type   Budget   Trailer   Mower   TOTAL   Phase	(\$)		Components		
DCA   98,900   7,100   91,800   0   0   98,900		T:1	<u> </u>		<u>Future</u>
TOTAL FUNDING 98,900  Personnel Non Personnel Revenues Expenditures/(Revenues) \$0 \$5,650 \$0 \$5,650  DCA/LIFE CYCLE DETAILS  DCA Year Amount in Study: Amount Incl HST Year in the study	Budget	<u> 11anei</u>	Mower	<u>T</u>	OTAL Phases
OPERATING BUDGET IMPACT  \$0 \$5,650 \$0 \$5,650  DCA/LIFE CYCLE DETAILS  DCA Name  Year Amount Study  Amount in Study:  Amount in Study:  Amount Incl HST Year in the study	98,900	7,100	91,800 0	0 9	8,900
SO \$5,650 \$0 \$5,650  DCA/LIFE CYCLE DETAILS  DCA Name Year Amount in Study: Amount in Study: Amount Incl HST Year in the study	98,900				98,900
SO \$5,650 \$0 \$5,650  DCA/LIFE CYCLE DETAILS  DCA Name Year Amount in Study: Amount in Study: Amount Incl HST Year in the study					
\$0 \$5,650 \$0 \$5,650    DCA/LIFE CYCLE DETAILS	<b>Рем</b>	rsonnel Non Per	rsonnel Revenues	Expenditures/(Rev	venues)
DCA     Amount in Year     Amount Study       Name     Year     Amount in Study:       Amount Incl HST     Year in the study		\$0 \$5,6	550 \$0	\$5,650	
Name  Year Amount Study  Amount in Study:  Amount Incl HST  Year in the study	LS				
Amount in Study:  Amount Incl HST  Year in the study		Vac		n <u>Life Cycle</u>	
Year in the study		100	Timount Study	— Amount in Stu	ıdy:
				Amount Incl F	4ST
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:				Year in the st	udy
		a change in the yea	r and/or cost:		
	Explain if there is	a change in the yea			
	Explain if there is	a change in the yea			
	Explain if there is	a change in the yea			
DCA and/or Life Cycle:		& Fire Services Fleet  aw/Peter Englezak  2	& Fire Services   Fleet	& Fire Services   Fleet	Project Cost   Parks



Page 817**525** 20226 **Number:** 

**Project Cost:** 

	4 D 1			Project (	Cost: \$296	5,600
Project Name: New Flee					New Asset/Ex	pansion
Commission: Community	y & Fire Services			Useful Life:	8 Pre Ap	proval:
Department: Operations			Category		r	r
Project Mgr: Raymond I	=	COS	Cost Validation		rds	
	2 3 4 4		Requirement Validation			
5 🗆	6 7 8		requirement + undustron		15 111 1 (0.00)	
DETAILED DESCRIPTION	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
Acquire one 3.5 yard articul sensors. Loader is required to						
seasonal staff to carry out ro						
BUILDING MARKHAM	'S FUTURE TOG	ETHER: Safe &	Sustainable Community			
PROJECT COSTS (\$)	2020	Future Phases	NOTES			
			Cost based on recent qu	otes.		
Cost/Quote:	291,480	0	Loader: \$270,000 AVL: \$200			
Internal Charges: External Consulting:	0	0	Arrowboards: \$4,120 x			
-			Road temperature senso Non-personnel cost for			vtarnal
Sub Total: HST Impact:	291,480 5,130	0	vehicle maintenance \$6,		irts \$6,700 and C	Attital
Total Project Cost:	296,600					
=======================================	290,000					
SOURCE(S) OF FUNDING	G (\$)		Components			E4
Funding Type	<b>Budget</b>				<b>TOTAL</b>	<u>Future</u> <u>Phases</u>
						0
DCA	296,600	0	0 0	(	0	U
		0	0 0	(		
DCA TOTAL FUNDING	296,600 <b>296,600</b>	0	0 0	(		
TOTAL FUNDING	296,600		0 0 ersonnel Revenues			
	296,600	rsonnel Non Pe		Expenditu	0	
TOTAL FUNDING  OPERATING BUDGET I	296,600 Pe	rsonnel Non Pe	ersonnel Revenues	Expenditu		
TOTAL FUNDING  OPERATING BUDGET I	296,600 Pe	rsonnel Non Pe \$0 \$23	rsonnel Revenues ,400 \$0	Expenditur \$2		
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA	296,600 Pe	rsonnel Non Pe	rsonnel Revenues ,400 \$0	Expenditure \$2	res/(Revenues) 23,400 Cycle	
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA	296,600 Pe	rsonnel Non Pe \$0 \$23	rsonnel Revenues ,400 \$0	Expenditure \$2  Life Amou	res/(Revenues) 23,400  Cycle ant in Study:	
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA	296,600 Pe	rsonnel Non Pe \$0 \$23	rsonnel Revenues ,400 \$0	Expenditure \$2  Life Amou	res/(Revenues) 23,400  Cycle ant in Study: Incl HST	
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	296,600  MPACT  Pe	rsonnel Non Pe \$0 \$23	ersonnel Revenues ,400 \$0 Amount in Study	Expenditure \$2  Life Amou	res/(Revenues) 23,400  Cycle ant in Study:	
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA	296,600  MPACT  Pe	rsonnel Non Pe \$0 \$23	ersonnel Revenues ,400 \$0 Amount in Study	Expenditure \$2  Life Amou	res/(Revenues) 23,400  Cycle ant in Study: Incl HST	
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	296,600  MPACT  Pe	rsonnel Non Pe \$0 \$23	ersonnel Revenues ,400 \$0 Amount in Study	Expenditure \$2  Life Amou	res/(Revenues) 23,400  Cycle ant in Study: Incl HST	
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	296,600  MPACT  Pe	rsonnel Non Pe \$0 \$23	ersonnel Revenues ,400 \$0 Amount in Study	Expenditure \$2  Life Amou	res/(Revenues) 23,400  Cycle ant in Study: Incl HST	
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	296,600  MPACT  Pe	rsonnel Non Pe \$0 \$23	ersonnel Revenues ,400 \$0 Amount in Study	Expenditure \$2  Life Amou	res/(Revenues) 23,400  Cycle ant in Study: Incl HST	
OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	296,600  MPACT  Pe	rsonnel Non Pe \$0 \$23	ersonnel Revenues ,400 \$0 Amount in Study	Expenditure \$2  Life Amou	res/(Revenues) 23,400  Cycle ant in Study: Incl HST	



Page 819 7 7

**Number:** 20227

**Project Cost:** 

Project Name: Common	Mille Moodow	Fauinma	ont Maint	ononoc		Project (	Cost:	\$110	,100
Project Name: German		r-daibw <sub>e</sub>	ent Maint	епапсе			Repair/I	Replace	2
Commission: Communit					1	Useful Life:	0 1	Pre App	oroval:
Department: Operation:		n & Surve	<u>y</u>		Category:	Major		1.	
Project Mgr: Robert Ma					Cost Validation:		er review		
	2 3 4			Require	ment Validation:				
	6 7 8			•					
DETAILED DESCRIPTI Repairs to components of the surre that the appropriate	ne gas collection an protection is provid	d environr ed to the a	mental mon abutting res	idential p	roperties and Ge			Natura	l Habitat t
BUILDING MARKHAM	I'S FUTURE TOG	ETHER:	Safe & S	Sustainable	Community				
PROJECT COSTS (\$)	2020	Future	Phases	NOTES		• • • •	.1 .	1	
Cost/Quote:	87,200		0		ject is for the material toring. A consul				
Internal Charges:	0		0	monitor	ng equipment an	d recommend	d rehabilita	ition w	ork that is
External Consulting:	21,000		0		. Consulting is 20 ed every two year				
Sub Total:	108,200		0		ele Reserve Study		equesied is	COIISIS	aciii wiiii
HST Impact:	1,904	-	0						
<b>Total Project Cost:</b>	110,100		0						
OURCE(S) OF FUNDIN	<u>G (\$)</u>			Co	mponents				<u> </u>
unding Type	<u>Budget</u>						<u>TO</u>	ΓAL	<u>Future</u> <u>Phases</u>
perating Funded Life Cycle	110,100		0	0	0	(	)	0	(
TOTAL FUNDING	110,100							0	
	Per Pe	rsonnel	Non Per	sonnel	Revenues	Expenditu	res/(Revei	nues)	
OPERATING BUDGET	IMPACT	\$0	\$0	)	\$0		\$0		
CA/LIFE CYCLE DET.	AILS								
<u>DCA</u>					Amount in	<u>Life</u>	Cycle		
Name			Yea	r Amo	ınt Study	— Amou	ınt in Stud	y:	110,100
							nt Incl HS	_	110,100
							in the stud		2020
DCA and/on Life Cval	o. Evaloia if those i	a a ahanaa	in the week	ond/on o	act.	1001	III tile stae	-	2020
DCA and/or Life Cycle	e: Explain if there i	s a change	in the year	and/or co	ost:				



Page 821 **529** 

A IV VI VI VI VI VI VI VI					110			
Designs Norman G	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1.70			Project C	ost:	\$18,900	
Project Name: Survey Ir	istrument Upgra	de/Replacement				Repair/F	Replace	
Commission: Community	y & Fire Services			ī	Jseful Life:	<del></del>	Pre Approval:	
Department: Operations		& Survey		Category:		, 1	re ripprovai.	
Project Mgr: Robert Ma	rinzel		Cos	• •	Recent awar	de .		
, , — — —	2 3 4 4				Condition as			
5 🗆	6 7 8		Requirement	vandation.	Condition as	Sessificiti		
Acquisition of GPS RTK (Repair necessary.  BUILDING MARKHAM	Real Time Kinematic veying and eliminate station - requires soft	cs) system leverages e redundant stages i tware upgrade; Data	n the data colle	ection proces quires softwa	s. Primary su	rvey equij	pment consists	s of
PROJECT COSTS (\$)	2020	Future Phases	NOTES			.1	in abassid bards	
Cost/Quote:	18,600	0	-			-	ir should be do system will al	
Internal Charges:	0	0	be compatibl	e for upgrad	e of existing e	quipment	without additi	ional
External Consulting:	0	0			ioning inform		is required to ellite based).	
Sub Total:	18,600	0	Amount requ	ested is cons			fe Cycle Reser	rve
HST Impact:	327	0	Study update	<b>.</b>				
Total Project Cost:	18,900	0						
OURCE(S) OF FUNDING	<u>G (\$)</u>		Compo	onents				
unding Type	Budget	GPS RTK				TOT	Futur FAL Phas	
perating Funded Life Cycle	18,900	18,900	0	0	0	18,9	900	0
TOTAL FUNDING	18,900					18,	,900	0
OPERATING BUDGET I	Per	rsonnel Non Per	rsonnel R	evenues	Expenditure	es/(Rever	nues)	
TERRITING BUDGET	<u> </u>	\$0 \$1,5	500	\$0	\$1	,500		
CA/LIFE CYCLE DETA	AILS							
<u>DCA</u>		Voc	m Amount	Amount in	Life (	<u>Cycle</u>		
Name		Yea	ar Amount	Study	— Amoun	nt in Study	y: 16,60	00
					Amoun	t Incl HS	T 18,90	00
					Year i	n the stud	ly 202	20
DCA and/or Life Cycle	e: Explain if there is	a change in the yea	ar and/or cost:					_
Amount requested inclu	-							
•	•	•						



Page 823 **538** 

AM	2020 PROJECT FUNDING REQUEST FORM	Number:	20230	<b>3</b>
	Proj	ject Cost:	\$27,700	

Project Name: Survey M	onument Replac	ement				,
					Repair/Repla	ce
Commission: Community		0. 0		Useful Life:	60 Pre A	pproval: $\square$
Department: Operations  Project Mary Robert More		& Survey	Category	Minor		
Project Mgr: Robert Mar			Cost Validation	: Recent awa	rds	
	2 3 4 4		Requirement Validation	Other(speci	fy in Notes)	
	6□ 7□ 8□		•		,	
DETAILED DESCRIPTION		*				
Program to replace damaged network will help to achieve						irvey control
etwork will help to define ve	an emelent engines	aring design and ee	instruction program and an	o reduce tayo	at time.	
BUILDING MARKHAM'	S FUTURE TOGE	ETHER: Safe &	Sustainable Community			
PROJECT COSTS (\$)	2020	Future Phases	NOTES	1.6 1	'11 1	1 1
Cost/Quote:	27,200	0	This is an annual program Total survey monuments			ed each year.
Internal Charges:	0	0	Addition through sub div	vision assump	tion process – A	
External Consulting:	0	0	There is no backlog and Replacement – Avg. 40/			
Sub Total:	27,200	0	horizontal at an average			
HST Impact:	479	0	monuments. 3 year avera			
Total Project Cost:	27,700	0	45 horizontal control moconsistent with recent av			
=			consistent with Lica Cvo			equested is
OURCE(S) OF FUNDING	<u>G (\$)</u>		Components			Future_
<b>Funding Type</b>	<u>Budget</u>				TOTAL	<u>Phases</u>
Operating Funded Life Cycle	27,700	0	0 0	(	0	0
TOTAL FUNDING	27,700				0	0
OPERATING BUDGET I	MPACT Per	sonnel Non Pe	rsonnel Revenues	Expenditu	res/(Revenues)	
OI ERATII (O DEDGET I	WII ACT	\$0 \$	0 \$0		\$0	
OCA/LIFE CYCLE DETA	AILS					
<u>DCA</u>			Amount in	<u>Life</u>	Cycle	
Name		Yea	ar Amount Study	— Amou	int in Study:	27,700
				Amou	nt Incl HST	27,700
					in the study	2020
			or and/or agets	1001		2020
DCA and/on Life Cycle	. Evaloin if those is	a abamaa in tha riai				
DCA and/or Life Cycle	: Explain if there is	a change in the yea	ar and/or cost.			
DCA and/or Life Cycle	: Explain if there is	a change in the yea	ii and/or cost.			
DCA and/or Life Cycle	: Explain if there is	a change in the yea	u and/of cost.			
DCA and/or Life Cycle	: Explain if there is	a change in the yea	ti anu/oi cost.			
DCA and/or Life Cycle	: Explain if there is	a change in the yea	u anu/oi cost.			
DCA and/or Life Cycle	: Explain if there is	a change in the yea	ti anu/oi cost.			



Page 825 7 980

MARKHAM 2020 PROJECT FUND.	ING REQUEST FO	KM N	umber:	20231
Project Name: Growth Related Parks Improvements		Project	Cost:	\$438,800
Commission: Community & Fire Services			New A	sset/Expansion
Department: Operations - Business & Technical Services Project Mgr: Tanya Lewinberg	U Category:	Jseful Life: Minor	0	Pre Approval:
Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □	Cost Validation: Requirement Validation:			
Expressing Markham's commitment to ongoing development and Program develops projects to create improvements to our existing maintain the high standard of quality reflected in Markham's new Markham's older parks.	inventory, that is ten years o	r older. Th	e program	's projects strive to
BUILDING MARKHAM'S FUTURE TOGETHER: Engag	ed, Diverse & Thriving City			
PROJECT COSTS (\$) 2020 Future Phases	NOTES			

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	431,203	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	431,203	0
HST Impact:	7,589	0
Total Project Cost:	438,800	0

New amenities at existing parks.

Plans for this year include;

Additional shade structure, location TBD (140K)

Shade Structure at Fairtree Park and Reeve Park (179K)

New park elements, play boards, chess table, covered tables. Locations TBD (45K)

Basketball half court at Grand Cornell Park (75K)

SOURCE(S) OF FUNDING (	<u>(\$)</u>		Compone	ents			E-4
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
DCA	394,920	0	0	0	0	0	0
Non-DC Growth	43,880	0	0	0	0	0	0
TOTAL FUNDING	438,800					0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

<u>OCA</u>			Amount in	Life Cycle
me	Y	Zear Amoui	nt Study	Amount in Study:
				Amount Incl HST
				Year in the study
A and/or Life Cycle: Explain if the	nere is a change in the	year and/or cos	t:	
CA and/or Life Cycle: Explain if the	nere is a change in the	year and/or cos	t:	
CA and/or Life Cycle: Explain if th	nere is a change in the	year and/or cos	t:	
CA and/or Life Cycle: Explain if the	nere is a change in the	year and/or cos	t:	
CA and/or Life Cycle: Explain if th	nere is a change in the	year and/or cos	t:	



Page 827

Number: 20232 **Project Cost:** \$221,600 Project Name: Public Realm-Markham's Shared Places Our Spaces New Asset/Expansion Commission: Community & Fire Services Pre Approval: Useful Life: Department: Operations - Business & Technical Services Category: Major Project Mgr: Tanya Lewinberg Cost Validation: Third party estimate CW ✓ 1 □ 2 □ 3 □ 4 □ Ward(s): Requirement Validation: Visual inspection 5 6 7 8 **DETAILED DESCRIPTION (SCOPE OF PROJECT):** Markham's Public Realm is a long term program to create dynamic, beautiful public spaces that reflect our diverse social and cultural identity. Projects include enhancements that promote community engagement, beautification and sustainability, as well as the implementation of the Public Realm Strategy. Engaged, Diverse & Thriving City **BUILDING MARKHAM'S FUTURE TOGETHER: PROJECT COSTS (\$)** 2020 **Future Phases** Carving Project bases and signs (\$88K) Cost/Quote: 207,000 0 Adopt-a-park (\$6k) Graffiti Wall (\$62K) **Internal Charges:** 11.000 0 Museum Tree Carving (\$8K) **External Consulting:** 0 8-80 Workshop Series (\$36K) Summer Student (\$11k) Sub Total: 218,000 0 Keep Markham Beautiful Pamphlet (\$5K) 0 **HST Impact:** 3,643 Speaker Series (\$6k) **Total Project Cost:** 221,600 0 SOURCE(S) OF FUNDING (\$) **Components Future Funding Type** TOTAL **Phases Budget** Tax 221,600 0 0 0 0 0 0 TOTAL FUNDING 221,600 0 0 Personnel Non Personnel Revenues Expenditures/(Revenues) **OPERATING BUDGET IMPACT** \$0 \$0 \$0 \$0 DCA/LIFE CYCLE DETAILS **DCA** Amount in **Life Cycle** Year Name **Amount** Study Amount in Study: Amount Incl HST Year in the study DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 829**537**Number: 20233

Project Name: Bridges and Culverts - Condition Inspection

Commission: Community & Fire Services

Department: ES - Infrastructure
Project Mgr: Shipra Singh

Ward(s): CW 1 2 3 4 Requirement Validation: Recent awards

Requirement Validation: Multiple(specify)

## **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

Hire a consultant to inspect vehicular bridges (9), pedestrian bridges (37), large culverts (37) (> 900mm), small culverts (up to 900mm) (26) and boardwalks (10) as mandated by Public Transportation and Highway Act - Regulation 104/97 to ensure public safety. A total of 119 structures will be inspected out of 347. This program ensures inspections take place within the regulated timelines. Refer to attached exhibit for inventory of structures and inspection frequency.

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	0	0
Internal Charges:	0	0
External Consulting:	67,600	0
Sub Total:	67,600	0
HST Impact:	1,190	0
Total Project Cost:	68,800	0

#### NOTES

This is an annual program. There is no backlog and structures are in a state of good repair.

Operations is responsible for preventative maintenance on bridges/culverts such as minor grading, patching, sealing of approaches and decks, and siltation removal from culverts, while Env. Services is responsible for its inspection, rehabilitation and replacement.

Unit cost is consistent with recent award plus inflation. Amount requested is consistent with 2019 Life Cycle Reserve Study Update.

SOURCE(S) OF FUNDING (\$	<u> </u>		Compone	ents			E4
Funding Type	Budget					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	68,800	0	0	0	0	0	0
TOTAL FUNDING	68,800				=	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OTENITA IO DED GET INTERES	\$0	\$0	\$0	\$0	

#### DCA/LIFE CYCLE DETAILS

<u>DCA</u>	V A	Amount in	<u>Life Cycle</u>	
Name	Year Amoun	t Study	Amount in Study:	68,800
			Amount Incl HST	68,800
			Year in the study	2020
DCA and/or Life Cycle: Explain if there is	a change in the year and/or cost	:		

Project 20233 - Bridges and Culver	ts - Condi	tion Ins	pection				
As of May 2019							
	Inspection Frequency	Inventory	2020 Budget	2020	2021	2022	2023
Vehicular Bridges	2 years	25		9	14	10	13
Pedestrian bridges	2 years	78	Ι Γ	37	44	36	41
Boardwalks	2 years	10	1 [	10	0	10	0
Sub Total - Bridges		113	#20XXX	56	58	56	54
Large Culverts (Greater than or equal to 3000 mm)	2 years	60	1 [	24	31	25	32
Large Culverts (Greater than 900mm less than 3000mm)	4 years*	25		13	6	6	9
Small Culverts (Upto 900mm dia)	4 years*	130		26	35	16	37
Storm Sewer Culverts	4 years*	19		0	0	19	0
Sub Total - Culverts		234		63	72	66	78
Total		347		119	130	122	132
Note:							
1. If the structure is under rehabilitation/replacement pro	ogram, inspection	on is deferre	d until after wa	rranty			
2. * Some culverts are inspected every 2 years depending	on their condit	ion					



Ward(s):

Department: ES - Infrastructure

Project Mgr: Shipra Singh

Page 833 5 288

2020 PROJECT FUNDING REQUI	2020 DDO IECT EUNDING DECHEST EO	DIA	-		<b></b>
<u>Markh</u>	IAM 2020 PROJECT FUNDING REQUEST FOR	K1V1	Number:	20234	
Proiect Name:	Confined Space Assessment for Culverts	Projec	et Cost:	\$25,900	
			Studies	s/Pilot Programs	_
Commission:	Community & Fire Services	Iseful Life	· 0	Pre Approval:	

CW **✓** 1 □ 2 □ 3 □ 4 □

Cost Validation: Recent awards Requirement Validation: Legislative compliance

Category: Minor

## **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

Hire a consultant to assess the existing culverts (greater than 900mm diameter) and to validate City's assumptions/ develop the confined space entry and exit plans to meet the Occupational Health and Safety Act (OHSA).

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	0	0
Internal Charges:	0	0
External Consulting:	25,500	0
Sub Total:	25,500	0
HST Impact:	449	0
Total Project Cost:	25,900	0

#### **NOTES**

Total inventory 104 culverts (> 900mm diameter). In 2010, 62 culverts (>900mm dia) were assessed and relevant confined space entry /exit plans were developed by an external consultant. This request is to carry out assessment of the remaining 42 culverts (>900mm dia) that were assumed since 2010. Currently, condition inspections of these 42 culverts were carried out under Confined Space protocol. No rehabilitation work has been carried out on these culverts to date. Amount requested is consistent with 2019 Life Cycle Reserve Study Update.

SOURCE(S) OF FUNDING (\$	<u> </u>		Compone	ents			Euturo
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	25,900	0	0	0	0	0	0
TOTAL FUNDING	25,900					0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

## **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>		Amount in	Life Cycle	
Name	Year Amoun	nt Study	Amount in Study:	25,900
			Amount Incl HST	25,900
			Year in the study	2020
DCA and/or Life Cycle: Explain if there is a cha	ange in the year and/or cos	t:		

Project 20234 - Confined Space Assessment for Culverts								
As of May 2019								
	Inspection	Inventory	Completed	Proposed				
	Frequency	,	in 2010	in 2020				
Large Culverts (Greater than or equal to 3000 mm)	2 years	60	44	16				
Large Culverts (Greater than 900mm less than 3000mm)	4 years*	25	17	8				
Storm Sewer Culverts	4 years*	19	1	18				
Total - Culverts		104	62	42				

9/10/2019 1:53 PM



Page 837**545**Number: 20235

Decided Name 3 537777	~	·, 15	•	<b>TT</b> 4 ~		Project (	Cost:	\$27,	,000
Project Name: MNRF M		pital Pro	ojects at	Water C	crossings		Studi	es/Pilot F	rograms
Commission: Community	& Fire Services				1	Useful Life:	0	Pre An	proval:
Department: ES - Infrast	ructure				Category:		O	110 115	provan.
Project Mgr: Prathapan I	Cumar								
Ward(s): $CW \checkmark 1$	2 🗆 3 🗆 4 🗆				Cost Validation:				
5 🗌	6□ 7□ 8□			Require	ment Validation:	Legislative	complia	ince	
ETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT)	):						
fire a Consultant to prepare equired under the Section 1' equired for 2020.									
BUILDING MARKHAM'	S FUTURE TOG	ETHER:	Safe &	Sustainable	Community				
PROJECT COSTS (\$)	<u>2020</u>	Future l	<u>Phases</u>	NOTES	S n annual prograr	n It is a roqui	iromont	to submi	t the
Cost/Quote:	0		0		n annuar prograf g to MNRF:	n. it is a requi	rement	to subiiii	t tile
Internal Charges:	0		0		itoring Reports e			after the	completio
External Consulting:	26,500		0		l works at water gation Plan Repo			a aa data	main ad br
Sub Total:	26,500		0	MNRF.	gation Pian Repo	rts for some s	tructure	es as dete	mined by
HST Impact:	466		0		verage is not app				
Total Project Cost:	27,000		0		t is consistent wi				
=	27,000			requeste	d is consistent w	un 2019 Liie	Cycle R	teserve S	uay Opaa
OURCE(S) OF FUNDING	3 (\$)			Co	mponents				Entuno
unding Type	<u>Budget</u>						<u>T</u>	<u>OTAL</u>	Future Phases
perating Funded Life Cycle	27,000		0	0	0	(	)	0	
TOTAL FUNDING	27,000							0	
	Pe	rsonnel	Non Per	rsonnel	Revenues	Expenditu	res/(Rev	venues)	
OPERATING BUDGET II	<u>MPACT</u>	\$0	\$(		\$0	•	\$0	,	
CA/LIFE CYCLE DETA	ILS	ΨΟ			Ψ0		Ψ0		
DCA					Amount in	Life	Cycle		
Name			Yea	r Amou			•	1 .	27.000
7							nt in Stu	-	27,000
							nt Incl F		27,000
						Year	in the st	tudy	2020
DCA and/or Life Cycle:	: Explain if there is	a change i	in the yea	r and/or co	ost:				

20235 - MNRF Monitoring fo	r Capital Project	s at W	ater Cr	ossings					
					Monitorin	g Reports			
Year	Project Completed that requires reporting	2016	2017	2018	2019	2020	2021 (Est.)	2022 (Est.)	2023 (Est.)
2015 Construction	8	8	8	8	8	8			
2016 Construction	1		1	1	1	1	1		
2017 Construction	3			3	3	3	3	3	
2018 Construction	1				1	1	1	1	1
2019 Construction	3					3	3	3	3
2020 Construction (Estimated)	1						1	1	1
Sub Total (Monitoring Reports)		8	9	12	13	16	9	8	4
Sub Total (Mitigation Plan, where required)						4	5	5	5
Total		8	9	12	13	20	14	13	9



Page 841 **529** 

20236 **Number:** 

Paris A Name of the Control of the C	D. D.	7 • 7 •			Project (	Cost: \$6	45,100
Project Name: Storm Se		bilitation				Repair/Rep	lace
Commission: Communit  Department: ES - Infras				τ	Jseful Life:	25 Pre	Approval:
Project Mgr: Shipra Sin		_		Category:	Major		
	□ 2□ 3□ 4□		Co	st Validation:	Recent awa	rds	
	☐ 6☐ 7☐ 8☐		Requiremen	nt Validation:	Condition a	ssessment	
DETAILED DESCRIPTION		ROJECT):					
Rehabilitation of deficient s	storm sewer pipes id	entified through CC	CTV (closed c	ircuit televisio	on) inspection	1.	
	ue purupe roci	EDITED. Safa &	Sustainable Co	mmunity			
BUILDING MARKHAM	I'S FUTURE TOGI	ETHER: Sale &	Sustamable Co	minumity			
PROJECT COSTS (\$)	2020	Future Phases	NOTES			J	
Cost/Quote:	538,900	0					very two years. ery year out of
Internal Charges:	0	0					ons, deficient
External Consulting:	95,000	0		ns are identifie st 3 years histo			
Sub Total:	633,900	0	There is no	substantial ba	cklog. Storm	sewer pipes	are in a state of
HST Impact:	11,157	0	good repair Reserve Stu		ested is cons	sistent with 20	119 Life Cycle
<b>Total Project Cost:</b>	645,100	0	Reserve sit	idy Opdaic.			
SOURCE(S) OF FUNDIN	<u>[G_(\$)</u>		Comp	onents			- F. 4
Funding Type	<b>Budget</b>	Consulting	Construction	1		<b>TOTA</b>	<u>Future</u> L <u>Phases</u>
Gas Tax	479,365	71,835	407,530	0	(	479,365	0
Operating Funded Life Cycle	165,735	24,837	140,898	0	(	165,735	0
TOTAL FUNDING	645,100					645,10	0
OPERATING BUDGET	IMPACT Per			Revenues	Expenditu	res/(Revenue	<b>s</b> )
DCA/LIFE CYCLE DETA	A II C	\$0 \$	0	\$0		\$0	
DCA DCA	AILS			Amount in	Life	<u>Cycle</u>	
Name		Yea	ar Amount			nt in Study:	645,100
						nt Incl HST	165,700
	T 1		• /		rear	in the study	2020
DCA and/or Life Cycle	e: Explain if there is	a change in the year	ar and/or cost:				

Project	Storm Sewer Pipes Rehabilitation
2020 Capital Request	\$645,100
<b>Funding Source</b>	Life Cycle Reserve
Description of Program	Rehabilitation of deficient storm sewer pipes identified through CCTV (closed circuit television) inspection.
Project Rationale	Deficient storm sewer pipes need to be rehabilitated to prevent flooding. If not rehabilitated, pipes will continue to deteriorate and the cost of rehabilitation will increase.
Legislative Requirement	None
History	Storm sewer pipe rehabilitation is conducted once every two years.
Future Phases	Varies - Based on the outcome of the annual CCTV inspection results
Total Project Cost (incl. all phases)	<ul> <li>Estimated cost \$400k - \$650k every two years</li> <li>25 Years Life Cycle Cost \$6.6M</li> </ul>
Related Projects	CCTV Inspection
Related Maps	-
Alignment to the Strategic Plan	Safe and Sustainable Community  Replacing/ repairing deficient pipe section will eliminate risk of flooding and minimize disruption to the community



Number:

N 1 (NT		I COMPLE	Project C	ost:	\$1,585,200
	Storm/Sanitary Sewer & Sanitary Laters	als CCTV Inspection		Studi	es/Pilot Programs
Commission:	Community & Fire Services	J	Jseful Life:	0	Pre Approval:
Department:	ES - Infrastructure	Cotogomy	Maian		rr
Project Mgr:	Shipra Singh	Category:	Major		
Ward(s):	CW □ 1□ 2 ✓ 3 ✓ 4 □	Cost Validation:			
	5 □ 6 □ 7 □ 8 ✔	Requirement Validation:	Condition a	ssessme	ent
	ECONTRUIAN (COORE OF PROTECT)				

## **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

Program to determine the condition of the storm, sanitary sewers and sanitary laterals using closed circuit television (CCTV) inspection. Pipe rehabilitation/ replacement programs will be developed based on the condition inspection results. In 2019, storm, sanitary sewers and sanitary laterals inspection programs were re-evaluated and consolidated into one project. 2020 Program: (a) 90 km storm sewers out of total 923 km (tax funded); (b) 91 km sanitary sewers out of total 918 km (waterworks funded); (c) 6,946 sanitary lateral out of total estimated 53,505 (waterworks funded)

**BUILDING MARKHAM'S FUTURE TOGETHER:** Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	1,507,776	13,230,081
Internal Charges:	0	0
External Consulting:	50,000	0
Sub Total:	1,557,776	13,230,081
HST Impact:	27,417	232,849
Total Project Cost:	1,585,200	13,462,900

#### NOTES

This is an annual program (10 year cycle) - Phase 2 of 10. Program has been revamped to consolidate all three CCTV inspections (storm + sanitary + sanitary laterals) into one as part of the Pipes

External consultant is retained to identify deficiencies on CCTV inspection. Unit cost is consistent with recent award.

Operating Budget Impact: Sanitary sewer flushing which was previously carried out through operating budget will now be done through this project.

SOURCE(S) OF FUNDING	<u>(\$)</u>		Componer	nts			E-4
Funding Type	<u>Budget</u>	Contractor	Consultant			TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	228,200	202,760	25,440	0	0	228,200	3,030,000
Waterworks	1,357,000	1,331,560	25,440	0	0	1,357,000	10,432,900
TOTAL FUNDING	1,585,200					1,585,200	13,462,900

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	<b>Expenditures/(Revenues)</b>	
	\$0	-\$92,603	\$0	-\$92,603	

### DCA/LIFE CYCLE DETAILS

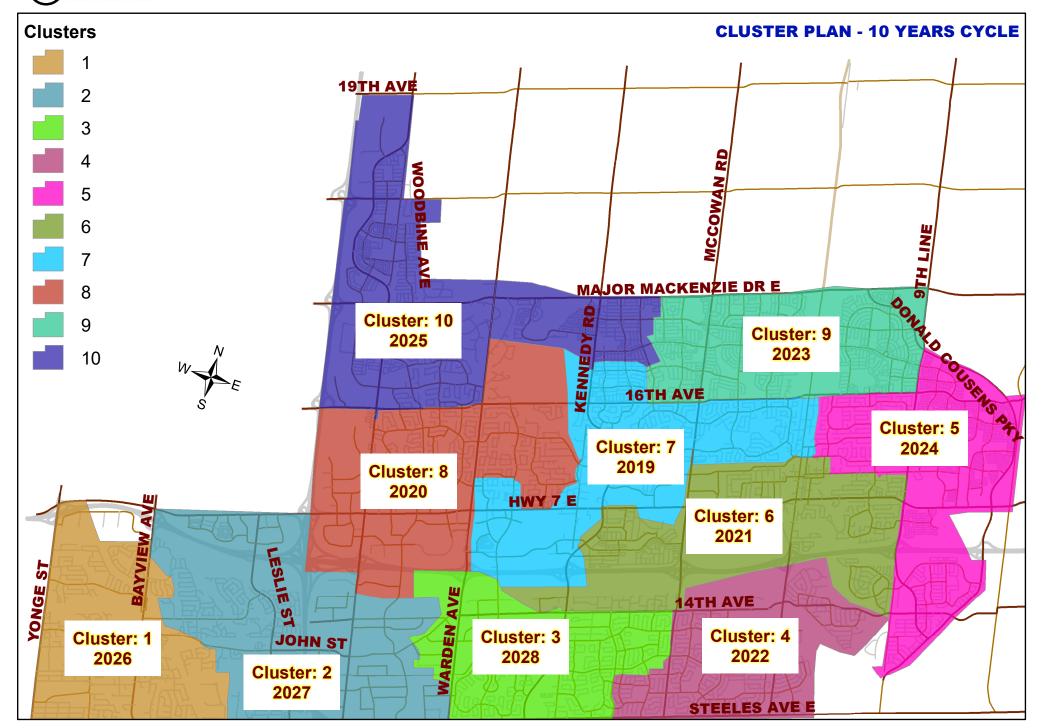
<u>DCA</u>			Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	190,100
				Amount Incl HST	228,200
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

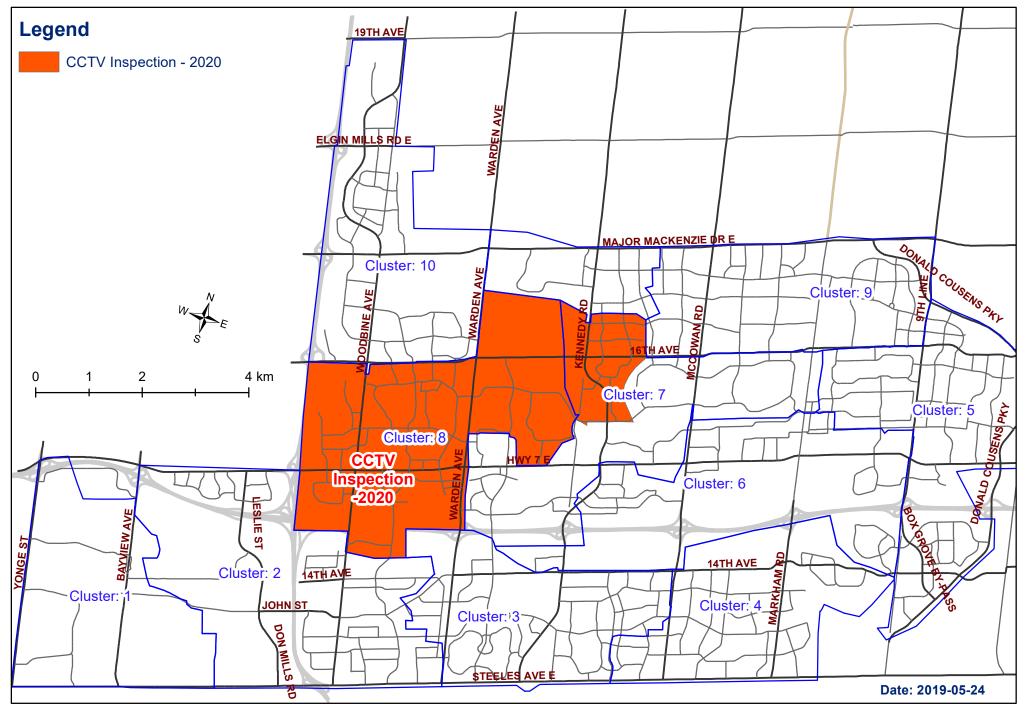
Only the storm portion of CCTV inspection is included in the 2019 Life Cycle. 2020 budget amount based on tender prices in June 2019, which is higher than what was in the 2019 Life Cycle Reserve Study. 2020 Life Cycle Study will be updated accordingly.

Project	Storm/ Sanitary Sew	er & Sanitary Lat	erals CCTV In	spection	
2020 Capital Request	\$1,585,200	\$1,585,200			
<b>Funding Source</b>	Life Cycle Reserve (st	orm) and Waterwo	orks Reserve (sa	nitary)	
Description of Program	Program to determine (CCTV) inspection. The		,		nitary laterals using closed circuit television of 10.
Project Rationale	Storm & sanitary sewe	er rehabilitation/ re	placement progi	rams are develo	ped based on condition inspection results.
Legislative Requirement	None				
History	In 2019, storm, sanitar one project as part of I  90 km storm sewer  91 km sanitary sev  6,946 sanitary later	Pipe Group. 2020 Firs out of total 923 livers out of total 91	Program: km (tax funded); 8 km (waterwor	; ks funded);	s were re-evaluated and consolidated into ed)
	Phase #	Inspection year	Cost (Excl. HST	Budget Cost (Incl. HST)	Comments
	Phase 1	2019	\$ 557,689	\$ 567,500	52 km storm; 52 km sanitary; 1,400 laterals
<b>Future Phases</b>	Phase 2	2020	\$ 1,557,776	\$ 1,585,200	90 km storm; 91 km sanitary; 6,946 laterals
	Phase 3 to Phase 10	2021 - 2028	\$ 13,230,081	\$ 13,462,900	Future phases
		Total	\$ 15,345,545	\$ 15,615,600	
	Future Phases Cost	(2021- 2028)		\$ 13,462,900	
Total Project Cost (incl. all phases)	One cycle cost (10 year	ars) - \$15.6M			
<b>Related Projects</b>	<ul><li>Storm Sewer Pipes</li><li>Sanitary Sewers - I</li></ul>				
Related Maps	<ul><li>Program Map</li><li>2020 Location Ma</li></ul>	p			
Alignment to the Strategic Plan	Safe and Sustainable C	Community	ection will elimin	nate risk of floo	ding and minimize disruption to the

# MARKHAM SANITARY AND STORM SEWER - CCTV INSPECTION



ES - Infrastructure (2020)





Page 851**559** 

<b>V</b> ARKHAM	2020 PKO	JECI F	UNDII	VG KEQ	JUESI FU	KIVI	Number:	2	0238
Project Name: C4	<b>D</b>	<b>.</b>	T - • - · · · · · · · · · · · · · · ·			Proje	ect Cost:	\$10	6,300
Project Name: Stormwat	er Pumping St	tations - M	laintenar	nce			Repai	r/Repla	ce
Commission: Community	& Fire Services				1	Useful Li	·		proval:
Department: ES - Infrast	ructure				Category:		10. 1	TIC A	oprovan. —
Project Mgr: Eddy Wu					• •				
Ward(s): $CW \square 1 \square$	2□ 3 🗸 4□				ost Validation:		•		
5 🗆	6□ 7□ 8✔			Requirem	ent Validation:	Other(s	specify in No	otes)	
ETAILED DESCRIPTIO	N (SCOPE OF I	PROJECT	<b>):</b>						
egular maintenance of the part	•			Sustainable C					
ROJECT COSTS (\$)	2020	<b>Future</b>	Phases Phases	NOTES					
				This is an	annual program		t to corry ou	t the coi	ndition
Cost/Quote:	104,500		0	In 2017, s	taff retained a c	consultan	ii io can v ou		
~	104,500 0		$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$	assessmen	taff retained a c t of two stormy	water pun	nping station	ıs – Ente	erprise Drive
Cost/Quote: Internal Charges: External Consulting:				assessmen SWPS and	t of two stormy I Hagerman Di	water pun amond S	nping station WPS. Based	on the	erprise Drivenspection,
Internal Charges: External Consulting:	0		0	assessmen SWPS and the consul	t of two stormy	water pun amond S' ded to ov	nping station WPS. Based	on the	erprise Drivenspection,
Internal Charges: External Consulting: Sub Total:	0		0	assessment SWPS and the consult regular material Cost estimates	at of two storms I Hagerman Di tant recommen hintenance work hate provided b	water pun amond S' ded to ov k. y consult	mping station WPS. Based verhaul nine cant. Amount	on the interpretation on the interpretation (9) pum	erprise Drivenspection, ps as part of ed is
Internal Charges: External Consulting:	0 0 104,500		0 0	assessment SWPS and the consult regular material Cost estimates	t of two stormy I Hagerman Di tant recommen aintenance work	water pun amond S' ded to ov k. y consult	mping station WPS. Based verhaul nine cant. Amount	on the interpretation on the interpretation (9) pum	erprise Drivenspection, ps as part of ed is
Internal Charges: External Consulting: Sub Total: HST Impact: Total Project Cost:	0 0 104,500 1,839 106,300		0 0 0 0	assessment SWPS and the consult regular material Cost estimates consistent	at of two storms I Hagerman Di tant recommen hintenance work hate provided b	water pun amond S' ded to ov k. y consult	mping station WPS. Based verhaul nine cant. Amount	on the interpretation on the interpretation (9) pum	erprise Drive inspection, ps as part of ed is
Internal Charges: External Consulting: Sub Total: HST Impact: Total Project Cost:	0 0 104,500 1,839 106,300	  <u>t</u>	0 0 0 0	assessment SWPS and the consult regular material Cost estimates consistent	at of two storms of Hagerman Ditant recommentantenance work that provided but with 2019 Life	water pun amond S' ded to ov k. y consult	nping station WPS. Based verhaul nine ant. Amount deserve Study	on the interpretation on the interpretation (9) pum	erprise Drivenspection, ps as part of ed is
Internal Charges: External Consulting: Sub Total: HST Impact: Total Project Cost:  DURCE(S) OF FUNDING	0 0 104,500 1,839 106,300	<u></u>	0 0 0 0	assessment SWPS and the consult regular material Cost estimates consistent	at of two storms of Hagerman Ditant recommentantenance work that provided but with 2019 Life	water pun amond S' ded to ov k. y consult	nping station WPS. Based verhaul nine ant. Amount deserve Study	on the income on the income on the income of	erprise Drive inspection, ps as part of ed is e. Future
Internal Charges: External Consulting: Sub Total: HST Impact: Total Project Cost:  DURCE(S) OF FUNDING Inding Type Derating Funded Life Cycle	0 0 104,500 1,839 106,300 5 (\$)		0 0 0 0 0	assessment SWPS and the consult regular material Cost estimates consistent	at of two stormy of Hagerman Ditant recommentaintenance worknate provided b with 2019 Life	water pun amond S' ded to ov k. y consult	nping station WPS. Based verhaul nine ant. Amount esserve Study	on the source on the source on the source on the source of	erprise Drive Inspection, ps as part of ed is e.  Future Phases
Internal Charges: External Consulting: Sub Total: HST Impact: Total Project Cost:  OURCE(S) OF FUNDING  unding Type  perating Funded Life Cycle TOTAL FUNDING	0 0 104,500 1,839 106,300 5 (\$) Budget 106,300		0 0 0 0 0	assessmen SWPS and the consul regular ma Cost estin consistent	at of two stormy of Hagerman Ditant recommentaintenance worknate provided b with 2019 Life	water pun amond S' ded to ov k. y consult e Cycle R	nping station WPS. Based verhaul nine ant. Amount esserve Study	on the second on	erprise Drivenspection, ps as part of ed is e.  Future Phases
Internal Charges: External Consulting: Sub Total: HST Impact: Total Project Cost:  DURCE(S) OF FUNDING  Inding Type Derating Funded Life Cycle TOTAL FUNDING	0 0 104,500 1,839 106,300 5 (\$) Budget 106,300		0 0 0 0 0	assessment SWPS and the consult regular material Cost estimates the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consultant of th	at of two storms of Hagerman Distant recommens and tender by with 2019 Life apponents	water pun amond S' ded to ov k. y consult e Cycle R	nping station WPS. Based verhaul nine ant. Amount eserve Study	on the second on	erprise Drivenspection, ps as part of ed is e.  Future Phases
Internal Charges: External Consulting: Sub Total: HST Impact: Total Project Cost:  DURCE(S) OF FUNDING  unding Type  perating Funded Life Cycle	0 0 104,500 1,839 106,300 5 (\$) Budget 106,300 106,300 PMPACT	Personnel	0 0 0 0 0	assessment SWPS and the consult regular material Cost estimates the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consistent of the consultant of th	t of two stormy d Hagerman Ditant recommen aintenance worknate provided b with 2019 Life	water pun amond S' ded to ov k. y consult e Cycle R	nping station WPS. Based verhaul nine ant. Amount esserve Study	on the second on	erprise Drivenspection, ps as part of ed is e.  Future Phases
Internal Charges: External Consulting: Sub Total: HST Impact: Total Project Cost:  DURCE(S) OF FUNDING  Inding Type Derating Funded Life Cycle TOTAL FUNDING  DEPERATING BUDGET II  CA/LIFE CYCLE DETA DCA	0 0 104,500 1,839 106,300 5 (\$) Budget 106,300 106,300 PMPACT	Personnel	0 0 0 0 0 0	assessmen SWPS and the consult regular material Cost estimates consistent and the consult regular material Cost estimates and consistent and consistent and consistent and consistent and consultation and consult	t of two storms of Hagerman Distant recommens and tentral provided by with 2019 Life apponents  Revenues \$0  Amount in	water pun amond S' ded to ov k. y consult e Cycle R	nping station WPS. Based verhaul nine ant. Amount esserve Study	on the second on	erprise Drivenspection, ps as part of ed is e.  Future Phases
Internal Charges: External Consulting: Sub Total: HST Impact: Total Project Cost:  DURCE(S) OF FUNDING Inding Type Derating Funded Life Cycle TOTAL FUNDING  PERATING BUDGET INC CA/LIFE CYCLE DETA	0 0 104,500 1,839 106,300 5 (\$) Budget 106,300 106,300 PMPACT	Personnel	0 0 0 0 0	assessmen SWPS and the consult regular material Cost estimates consistent and the consistent consistent are consistent as a	t of two stormy d Hagerman Di tant recommen aintenance work nate provided b with 2019 Life aponents  Revenues \$0  Amount in	water pun amond S' ded to ov k. y consult e Cycle R	nping station WPS. Based verhaul nine ant. Amount eserve Study	on the second on	erprise Drivenspection, ps as part of ed is e.  Future Phases
Internal Charges: External Consulting: Sub Total: HST Impact: Total Project Cost:  DURCE(S) OF FUNDING  Inding Type Derating Funded Life Cycle TOTAL FUNDING  DPERATING BUDGET II  CA/LIFE CYCLE DETA DCA	0 0 104,500 1,839 106,300 5 (\$) Budget 106,300 106,300 PMPACT	Personnel	0 0 0 0 0 0	assessmen SWPS and the consult regular material Cost estimates consistent and the consult regular material Cost estimates and consistent and consistent and consistent and consistent and consultation and consult	t of two storms of Hagerman Distant recommens and tentral provided by with 2019 Life apponents  Revenues \$0  Amount in	water pun amond S' ded to ov k. y consult c Cycle R  Expend	nping station WPS. Based verhaul nine ant. Amount esserve Study  T  0  ditures/(Rev \$0	on the incomplete (9) pure in request of Update (1) OTAL (1) Output (1) Outpu	erprise Drivenspection, ps as part of ed is e.  Future Phases



Page 853 **56**8

\$2,190,800

**Number: 20239** 

**Project Cost:** 

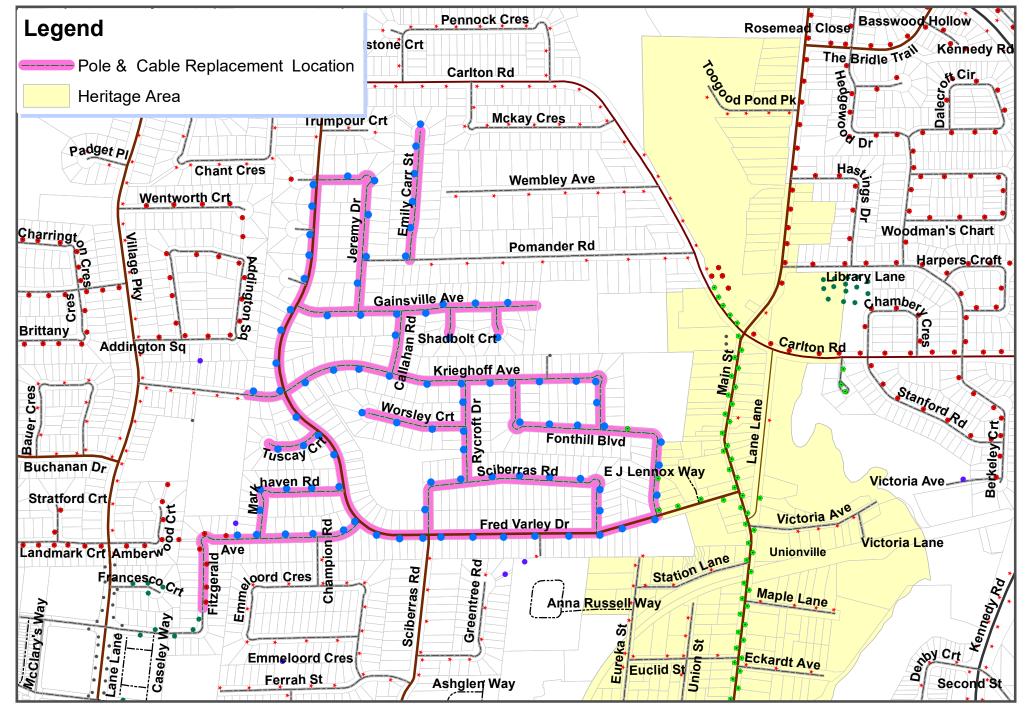
Project Name: Streetligh	t Dolog & Coblo	Donlogoment (	Jorlan Willon	(0)			
		Kepiacement (	variey villag	<u>,e)</u>		Repair/Repla	ice
Commission: Community				Ţ	Jseful Life:	60 Pre A	pproval: 🗹
Department: ES - Infrasi				Category:	Major		
Project Mgr: Prathapan			Co		Recent awards		
	2 3 2 4			nt Validation:			
	6 7 8		1				
DETAILED DESCRIPTION							
Replacement of aged underg ttached map).	ground streetlight ca	ables and non-stand	dard galvanized	d short street p	ooles in Varle	y Village Area	(refer to
ttached map).							
BUILDING MARKHAM	'S FUTURE TOG	ETHER: Safe &	z Sustainable Co	mmunity			
PROJECT COSTS (\$)	2020	Future Phases	NOTES				
Cost/Quote:	1,790,957	0				ged undergrour ed streetlight p	
Internal Charges:	0	0		les based on d			oics (approx.
External Consulting:	362,000	0				rd plus inflation	
Sub Total:	2,152,957	0	Study Upda	•	sistent with 20	019 Life Cycle	Reserve
HST Impact:	37,892		Energy savi	ings due to LE			
Total Project Cost:	2,190,800	0	The pre-app	proval request	of \$362,000	is for design w	ork only.
Ξ							
OURCE(S) OF FUNDING	<u>G (\$)</u>		Comp	onents			<u>Future</u>
unding Type	<u>Budget</u>	Design + CA	Construction	l		TOTAL	Phases
perating Funded Life Cycle	2,190,800	368,371	1,822,429	0	C	2,190,800	0
TOTAL FUNDING	2,190,800					2,190,800	0
OPERATING BUDGET I	MDACT Per	rsonnel Non P	ersonnel I	Revenues	Expenditu	es/(Revenues)	
DEERATING BUDGET I	WIFACI	\$0 -\$7	,260	\$0	-\$	7,260	
OCA/LIFE CYCLE DETA	AILS						
<u>DCA</u>				Amount in	<u>Life</u>	<u>Cycle</u>	
Name		Ye	ear Amount	Study	– Amou	nt in Study:	2,190,900
					Amou	• -	2,190,900
						in the study	2026
DCA and/or Life Cycle	v Evnlain if there is	a change in the ve	ear and/or cost:		Tour	in the study	2020
These streetlight poles a	-				5 2032 How	aver it has been	2
accelerated due to cond	,	•				ever, it has been	

Project	Streetlight Poles & Cable Replacement (Varley Village)
2020 Capital Request	\$2,190,800
<b>Funding Source</b>	Life Cycle Reserve
Description of Program	Replacement of aged underground streetlight cables and non-standard galvanized short street poles in Varley Village Area
Project Rationale	To enhance street lighting levels in older areas in order to improve public safety
Legislative Requirement	None
History	Annually 20-25 new streetlights are installed based on complaints from the residents due to inadequate lighting through Streetlights – Miscellaneous Requests Capital Project.
Future Phases	None
Total Project Cost (incl. all phases)	\$2,190,800
Related Projects	<ul> <li>Streetlights – Poles Condition Inspection</li> <li>Streetlights – Underground Cable Condition Inspection</li> <li>Streetlights – Poles Replacement Program</li> <li>Streetlights – Underground Cable Replacement Program</li> <li>Streetlights – Miscellaneous Requests</li> </ul>
Related Maps/Documents	<ul><li>Location Map</li><li>Streetlighting Comparison</li></ul>
Alignment to the Strategic Plan	Safe and Sustainable Community  Improves public safety

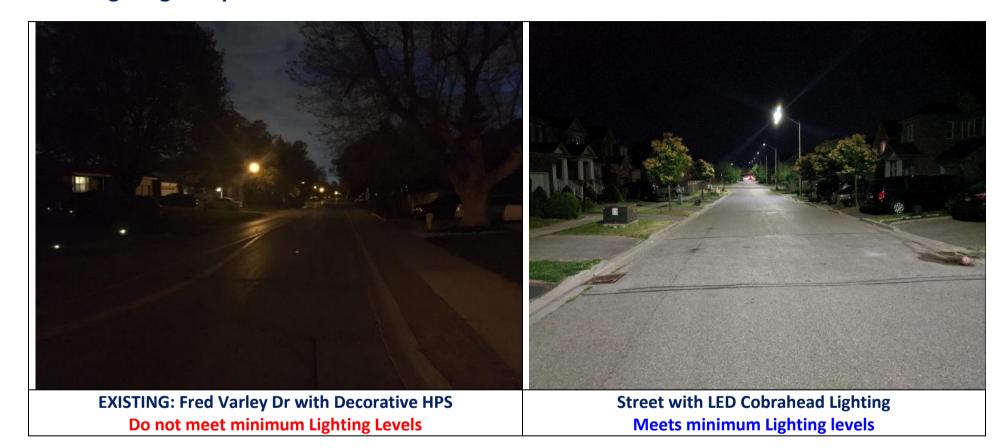
PDF Date: 2019-06-19







# **Streetlight Poles & Cable Replacement (Varley Village) Streetlighting Comparison**





Page 859 <b>56 7</b>	

20240 Number:

**Project Cost:** 

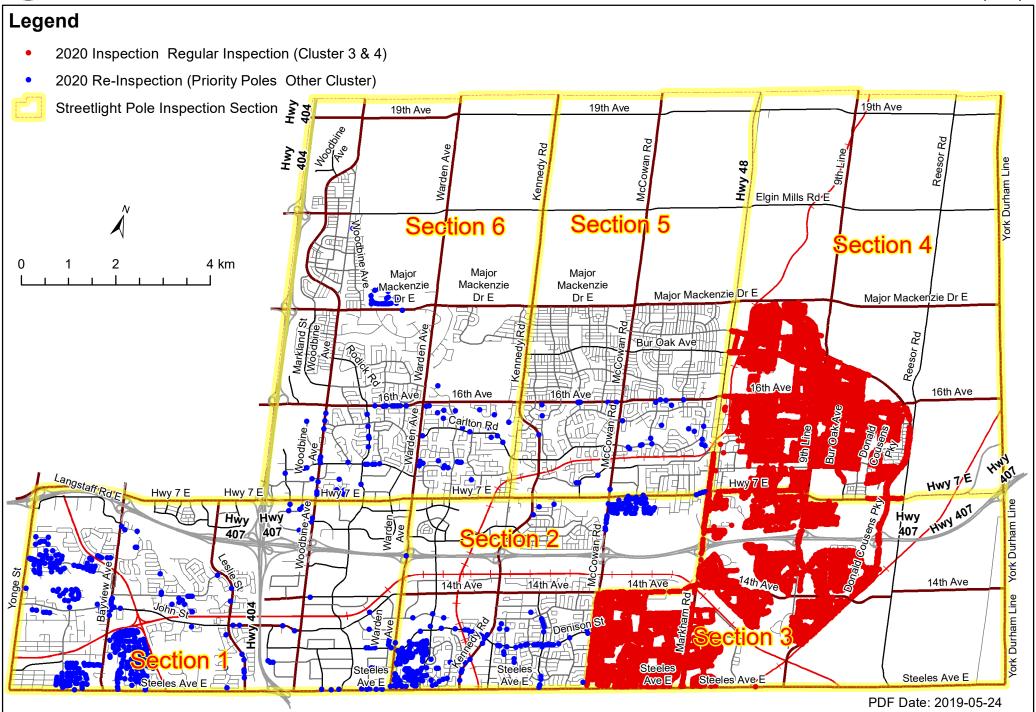
Duniant Mannas Gt 41° 1	. 3.61 11	<b>D</b> 4		Project	Cost:	6152,600				
Project Name: Streetligh		s Kequests			New Asse	et/Expansion				
Commission: Community				Useful Life:	60 Pr	e Approval:				
Department: ES - Infrast			Categor	ry: Minor		11				
Project Mgr: Prathapan I			-	on: Internal pe	er review					
	2 3 4 4				Other(specify in Notes)					
5 🗆	6□ 7□ 8□		requirement variation	- Culci (spec						
e City will install new street	sis and evaluation ag etlights. Note that the	ainst lighting leve e standard varies o	lepending on road type a			Society) by Staff,				
BUILDING MARKHAM'	S FUTURE TOGE	THER: Sale &	Sustainable Community							
PROJECT COSTS (\$)	<u>2020</u>	Future Phases	NOTES	uama Cturantlinhu	ta magnasta fu	om the residents				
Cost/Quote:	150,000	0	This is an annual program. Streetlights requests from the residents are reviewed for justification and are implemented to improve							
Internal Charges:	0	0	lighting levels in older	areas.	•	-				
External Consulting:	0	0	Locations will be prior budget request is to in:							
Sub Total:	150,000	0	fixtures.	stan approx. 20	7-25 new poi	es with LED				
HST Impact:	2,640	0	Unit cost is consistent	with recent aw	ard plus infla	tion.				
Total Project Cost:	152,600	0								
=	152,000	<u>U</u>								
OURCE(S) OF FUNDING	<u>G (\$)</u>		Components			— <u>Future</u>				
unding Type	<u>Budget</u>				TOT	<u> </u>				
NX.	152,600	0	0	0	0	0 0				
TOTAL FUNDING	152,600					0 0				
	Pers	onnel Non Pe	rsonnel Revenues	Expenditu	ıres/(Revenı	ies)				
OPERATING BUDGET I		\$0 \$	0 \$0	•	\$0					
CA/LIFE CYCLE DETA										
DCA			Amount	in Life	e Cycle					
Name		Yea			•					
					unt in Study:					
					unt Incl HST					
				Year	in the study					
DCA and/or Life Cycle	: Explain if there is a	change in the year	ar and/or cost:							



Page 861 **569** 

(I <b>Y</b> IARKHAM			, 0	, = = = = =	Number:	202	241		
Project Name: 64 41: 1	4 D.L.C. 124	· • • • •			<b>Project Cost:</b>	\$92,0	)00		
Project Name: Streetligh	ion Inspection P	rogram		Studie	es/Pilot Programs				
Commission: Community			Ţ	Useful Life: 60		oroval:			
Department: ES - Infrast			Category:		10,411				
Project Mgr: Shipra Sing			(	•	Recent awards				
Ward(s): $CW \boxed{\bullet} 1$				n: Condition assessment					
5 □ 6 □ 7 □ 8 □			Requirem	ent vandation.	Condition assessment				
<b>DETAILED DESCRIPTIO</b> Inspection program to verify	,	*	ight poles ou	t of 24,983 city	owned poles.				
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Safe &	Sustainable (	Community					
PROJECT COSTS (\$)	2020	Future Phases	NOTES	0 0 11 1					
Cost/Quote:	0	0			poles is estimated to be spection, streetlight p				
Internal Charges:	0	0	for replac	ement/rehabilita	ation.				
External Consulting:	90,400	0		is consistent with frequency: Even	th recent award plus in	nflation.			
Sub Total:	90,400	0			sistent with 2019 Life	Cycle Re	eserve		
HST Impact: 1,591		Study Update.							
Total Project Cost:	92,000								
SOURCE(S) OF FUNDING	<u> </u>		Con	ponents			Future		
Funding Type	<b>Budget</b>				TO	<u>OTAL</u>	<u>Phases</u>		
Operating Funded Life Cycle	92,000	92,000	0	0	0 92	2,000			
TOTAL FUNDING	92,000				9	2,000			
OPERATING BUDGET II	rsonnel Non Po	ersonnel	Revenues	Expenditures/(Rev	enues)				
		\$0	\$0	\$0	\$0				
DCA/LIFE CYCLE DETA	ILS								
<u>DCA</u> Name Year				Amount in Study	<u>Life Cycle</u>				
Name			ear Amoui	n Bludy	— Amount in Stu	ıdy:	92,000		
					Amount Incl H	IST	92,000		
					Year in the stu	udy	2020		
DCA and/or Life Cycle:	Explain if there is	s a change in the ye	ar and/or cos	t:					
-									

ES - Infrastructure (2020)





Project Name: Streetlights - Poles Replacement Program

Page 865 <b>5</b>	73
202.42	

Repair/Replace

MARKHAM	2020 PROJECT FUNDING REQUEST FORM	Number:	20242	787
_	Pro	ject Cost:	\$124,200	

COMMISSION COMMINION	& Fire Services					_
Department: ES - Infrast			Ţ	Jseful Life:	60 Pre A	Approval: $\square$
Project Mgr: Prathapan Kumar			Category:	Minor		
· · ·	2 3 4 4		Cost Validation:	Recent awar	rds	
			Requirement Validation:	Condition as	ssessment	
DETAILED DESCRIPTION		ROJECT):				
Program to replace/repair de inspection.	eteriorated streetlig	ht poles identified tl		es condition in	nspection and	internal
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Safe &	Sustainable Community			
PROJECT COSTS (\$)	<u>2020</u>	Future Phases	NOTES This is an annual program	· City's our	ont invantagy i	s 24 092 polos
Cost/Quote:	122,100	0	Based on the age of stree			
Internal Charges:	0	0	as part of this request:	- 1		
External Consulting:	0	0	• □25-30 pole replacement • □ 0-20 minor pole rehability		7	
Sub Total:	122,100	0	The above quantity will b	e updated dej	pending on the	
HST Impact:	2,149	0	streetlight pole condition consistent with recent aw			
Total Project Cost:	124,200	0	consistent with 2019 Life			
SOURCE(S) OF FUNDING	G (\$)		Components			
						Entre
Funding Type	Budget				TOTAL	Future Phases
	Budget 124,200	0	0 0	0	<u> </u>	
	-	0	0 0	0	<u> </u>	Phases 0
	124,200 124,200	0 rsonnel Non Pe			0	0 0
Operating Funded Life Cycle  TOTAL FUNDING	124,200 124,200		rsonnel Revenues	Expenditur	0	0 0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I	124,200 124,200 MPACT Pe	rsonnel Non Pe	rsonnel Revenues	Expenditur	0 0 res/(Revenues	0 0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA	124,200 124,200 MPACT Pe	rsonnel Non Pe \$0 \$	rsonnel Revenues  ) \$0  Amount in	Expenditur	0 0 res/(Revenues	0 0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I	124,200 124,200 MPACT Pe	rsonnel Non Pe	rsonnel Revenues ) \$0  Amount in	Expenditur	0 0 res/(Revenues	0 0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA	124,200 124,200 MPACT Pe	rsonnel Non Pe \$0 \$	rsonnel Revenues  ) \$0  Amount in	Expenditur  Life (	0 0 res/(Revenues \$0	0 0 0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA	124,200 124,200 MPACT Pe	rsonnel Non Pe \$0 \$	rsonnel Revenues  ) \$0  Amount in	Expenditur  Life (	o  o  res/(Revenues  \$0  Cycle  nt in Study: [	Phases  0  0  124,200
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA	124,200  124,200  Pe MPACT  ALLS	rsonnel Non Pe \$0 \$ Yea	rsonnel Revenues  50 \$0  Amount in Study	Expenditur  Life (	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Phases  0  0  124,200  124,200
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA  Name	124,200  124,200  Pe MPACT  ALLS	rsonnel Non Pe \$0 \$ Yea	rsonnel Revenues  50 \$0  Amount in Study	Expenditur  Life (	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Phases  0  0  124,200  124,200
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA  Name	124,200  124,200  Pe MPACT  ALLS	rsonnel Non Pe \$0 \$ Yea	rsonnel Revenues  50 \$0  Amount in Study	Expenditur  Life (	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Phases  0  0  124,200  124,200
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA  Name	124,200  124,200  Pe MPACT  ALLS	rsonnel Non Pe \$0 \$ Yea	rsonnel Revenues  50 \$0  Amount in Study	Expenditur  Life (	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Phases  0  0  124,200  124,200
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA  Name	124,200  124,200  Pe MPACT  ALLS	rsonnel Non Pe \$0 \$ Yea	rsonnel Revenues  50 \$0  Amount in Study	Expenditur  Life (	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Phases  0  0  124,200  124,200

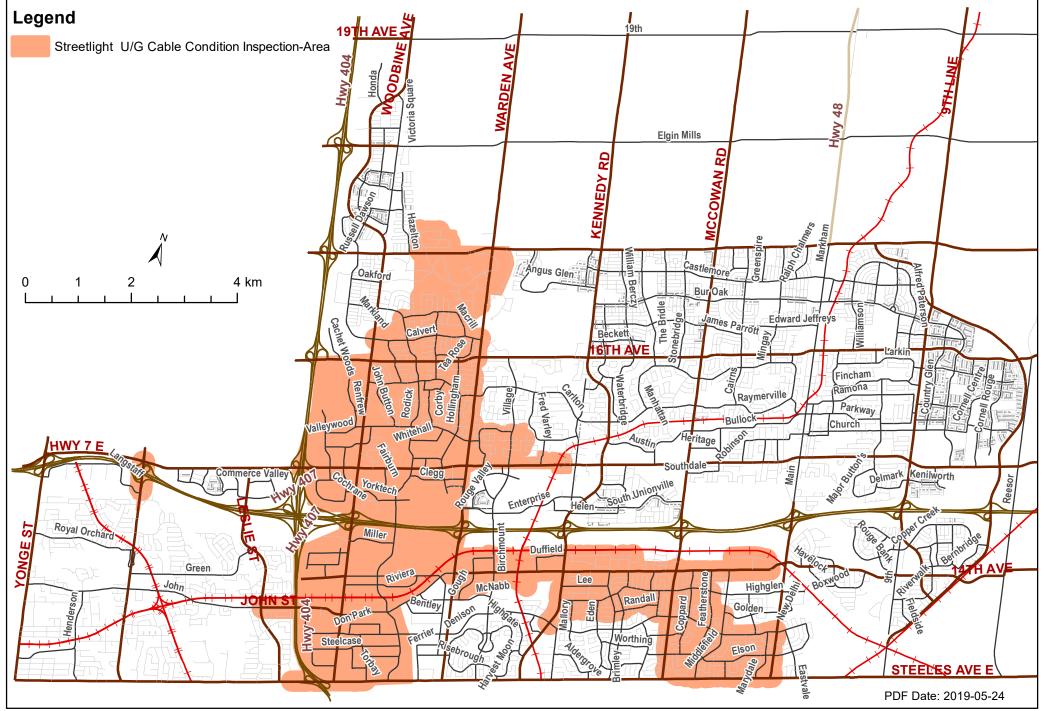


Page 867**575** 20243 **Number:** 

**Project Cost:** 

Project Name: C441:-1	4. II. J	1 C-11- C 144	T4!		Project (	Cost:	\$187	,200
Project Name: Streetligh		id Cable Conditi	on inspection	on		Repa	ir/Replac	e
Commission: Community	& Fire Services			Ţ	Useful Life:	55	Pre An	proval:
Department: ES - Infrast				Category:		55	11011p	p10 / <b>u1</b>
Project Mgr: Shipra Sing			Co	st Validation:		orde		
Ward(s): $CW \square 1$	2 🗸 3 🗸 4 🗌			nt Validation:			ont	
5 🗆	6□ 7□ 8✔		Requiremen	it vandation.	Condition	188088111	CIII	
DETAILED DESCRIPTION Inspection program to verify	the condition of a	pprox 100 km of un	derground str	_	5.			
BUILDING MARKHAM	S FUTURE TOG	ETHER: Sale &	Sustamable Co	minumty				
PROJECT COSTS (\$)	2020	Future Phases	NOTES	C 1	11: 1 .	. 11	• .• .	1. 1. 40
Cost/Quote:	184,000	0		of undergrou ity's current ca				
Internal Charges:	0	0	km of cable	has been insp	pected. Based	d on this	s condition	n inspection,
External Consulting:	0	0		d streetlight c	able lengths	will be	identified	for
Sub Total:	184,000	0	replacemen Program fre	ι. equency: Ever	v 5 years			
HST Impact:	3,238		Unit cost is	consistent wi	th recent awa			
Total Project Cost:	187,200	0		uested is cons	sistent with 2	2019 Lif	e Cycle R	eserve
=	107,200		Study Upda	iie.				
SOURCE(S) OF FUNDING	G (\$)		Comp	onents				<u>Future</u>
Funding Type	<u>Budget</u>					1	TOTAL	<u>Phases</u>
Operating Funded Life Cycle	187,200	0	0	0	(	0	0	0
TOTAL FUNDING	187,200						0	0
ODED ATING DUDGET I	MPACT Pe	rsonnel Non Pe	ersonnel I	Revenues	Expenditu	res/(Re	evenues)	
OPERATING BUDGET I	WIFACI	\$0 \$	0	\$0		\$0		
DCA/LIFE CYCLE DETA	AILS							
<u>DCA</u>				Amount in	<u>Life</u>	Cycle		
Name		Ye	ar Amount	Study	— Amoi	unt in S	tudv.	187,200
						int Incl	• =	187,200
					Year	in the s	study	2020
DCA and/or Life Cycle	: Explain if there is	a change in the year	ar and/or cost:					
L								

ES - Infrastructure (2020)





Page 871 **5 79**Number: 20244

D. T. W. G. B.		<b>Project Cost:</b>	\$145,500
Project Name: Structures Program-Full-time Staff  Commission: Community & Fire Services  Department: ES - Infrastructure  Project Mgr: Prathapan Kumar  Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □  5 □ 6 □ 7 □ 8 □	Category:	Jseful Life: Annual Other(specify in N	Pre Approval:
ETAILED DESCRIPTION (SCOPE OF PROJECT): his funds one Senior Project Engineer (existing Permanent Full	l-Time staff) position.		

BUILDING MARKHAM'S FUTURE TOGETHER:

Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	0	0
Internal Charges:	145,500	0
External Consulting:	0	0
Sub Total:	145,500	0
HST Impact:	0	0
Total Project Cost:	145,500	0

#### NOTES

This is an annual program. The annual structures (bridges and culverts) program includes detailed visual inspection, condition survey/design and cost effective maintenance program. The results are used to identify the structures that require rehabilitation.

Rehabilitation of structures improves the overall condition and increase the service life. Amount requested is consistent with 2019 Life Cycle Reserve Study Update.

Requirement validation: This position is critical to support structures rehabilitation projects for the City-owned structures.

SOURCE(S) OF FUNDING	(\$)	Components					E4
Funding Type	<b>Budget</b>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	145,500	0	0	0	0	0	0
TOTAL FUNDING	145,500				=	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OLEKATING BUDGET IVITACT	\$0	\$0	\$0	\$0	

### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>	Amou		
Name	Year Amount Stu	Amount in Study:	145,500
		Amount Incl HST	145,500
		Year in the study	2020
DCA and/or Life Cycle: Explain if there	is a change in the year and/or cost:		



Page 873 **589**Number: 20245

Project Name: S	Structures Rehabilitation (5 Structures) - Design & Const.		<b>Project Cost:</b>		\$607,200
_	<u> </u>	- Design & Const.		Repa	ir/Replace
	Community & Fire Services ES - Infrastructure	Ţ	Jseful Life:	15	Pre Approval: 🗹
	Prathapan Kumar	Category:			·
Ward(s): CV	W □ 1 ♥ 2 ♥ 3 ♥ 4 □	Cost Validation:		•	
	5 🗹 6 🗆 7 🗆 8 🗆	Requirement Validation:	Condition a	ssessme	ent ————————————————————————————————————

### DETAILED DESCRIPTION (SCOPE OF PROJECT):

Design and construction for rehabilitation of 5 structures (4 pedestrian bridges and 1 culvert). P005: Pomona Mills Park 95m W/Park Brook Rd; P012: Markham Civic Centre 15m W/Warden Ave; P083: Apple Creek North Park 60m NW/ Hoodview Ct.; P091: Toogood Pond 140m S/ Normandale Rd and Delhi Cres.; C089: Bur Oak Ave 245m E/Hwy 48. See attached map for locations.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	446,700	0
Internal Charges:	0	0
External Consulting:	150,000	0
Sub Total:	596,700	0
HST Impact:	10,502	0
Total Project Cost:	607,200	

#### **NOTES**

This project includes rehabilitation of 5 structures (P005, P012, P083, P091, C089). Operations is responsible for preventative maintenance on bridges/culverts such as minor grading, patching, sealing of bridge approaches and decks, and siltation removal from culverts, while Env. Services is responsible for its inspection/rehabilitation and replacement. Cost Validation: Recent award and external reviews. Amount requested is consistent with 2019 Life Cycle Reserve Study update. The pre-approval request of \$150,000 is for design work.

SOURCE(S) OF FUNDING (\$)		Components						
Funding Type	Budget	$\underline{Design + CA}$	Construction			TOTAL	<u>Future</u> <u>Phases</u>	
Operating Funded Life Cycle	607,200	152,640	454,560	0	0	607,200	0	
TOTAL FUNDING	607,200				- -	607,200	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

### DCA/LIFE CYCLE DETAILS

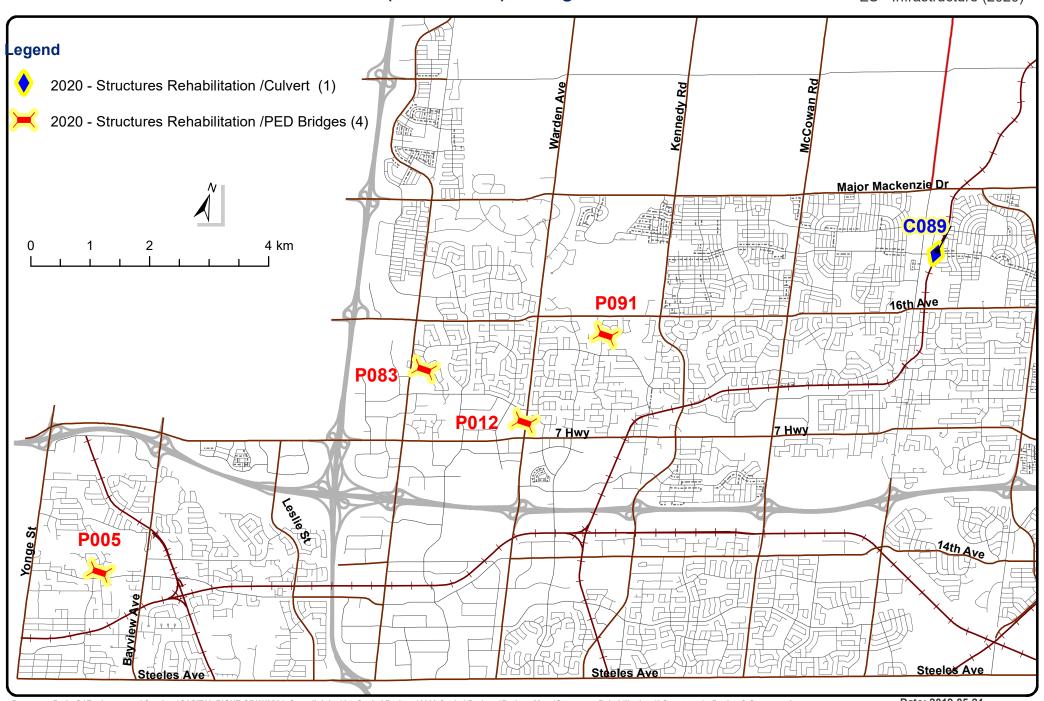
Amount Incl HST 607,2	<u>DCA</u>	Amou	ınt in <u>Life Cycle</u>	
Amount Incl HST 607,2	Name	Year Amount Stu	Amount in Study:	607,200
			•	607,200
·			Year in the study	2020
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:	CA and/or Life Cycle: Explain if t	here is a change in the year and/or cost:		

Project	Structural Rehabilitation (5 Structures) – Design & Construction
2020 Capital Request	\$607,200
<b>Funding Source</b>	Life Cycle Reserve
Description of Program	<ul> <li>Design and construction for rehabilitation of 5 structures (4 pedestrian bridges and 1 culvert).</li> <li>P005: Pomona Mills Park 95m W/Park Brook Road;</li> <li>P012: Markham Civic Centre 15m W/Warden Avenue;</li> <li>P083: Apple Creek North Park 60m NW/ Hoodview Court;</li> <li>P091: Toogood Pond 140m S/ Normandale Road and Delhi Crescent;</li> <li>C089: Bur Oak Ave 245m E/ Hwy 48.</li> </ul>
Project Rationale	2017/2018 Structures visual inspection indicated that rehabilitation is required for these structures to prevent further deterioration and ensure public safety. If not rehabilitated in a timely manner, structures will continue to deteriorate further cost of rehabilitation will increase.
Legislative Requirement	Yes – Mandated by Public Transportation and Highway Act - Regulation 104/97
History	Based on the structures condition inspections, deficient structures are identified and rehabilitated.
<b>Future Phases</b>	Based on the outcome of the annual structural condition inspection results
Total Project Cost (incl. all phases)	Varies
Related Projects	Bridges and Culverts – Condition Inspection
Related Maps	Location Map
Alignment to the Strategic Plan	<ul> <li>Safe and Sustainable Community</li> <li>Effective structures rehabilitation program improves overall transportation accessibility, public safety and supports City's vision for sustainable community</li> </ul>



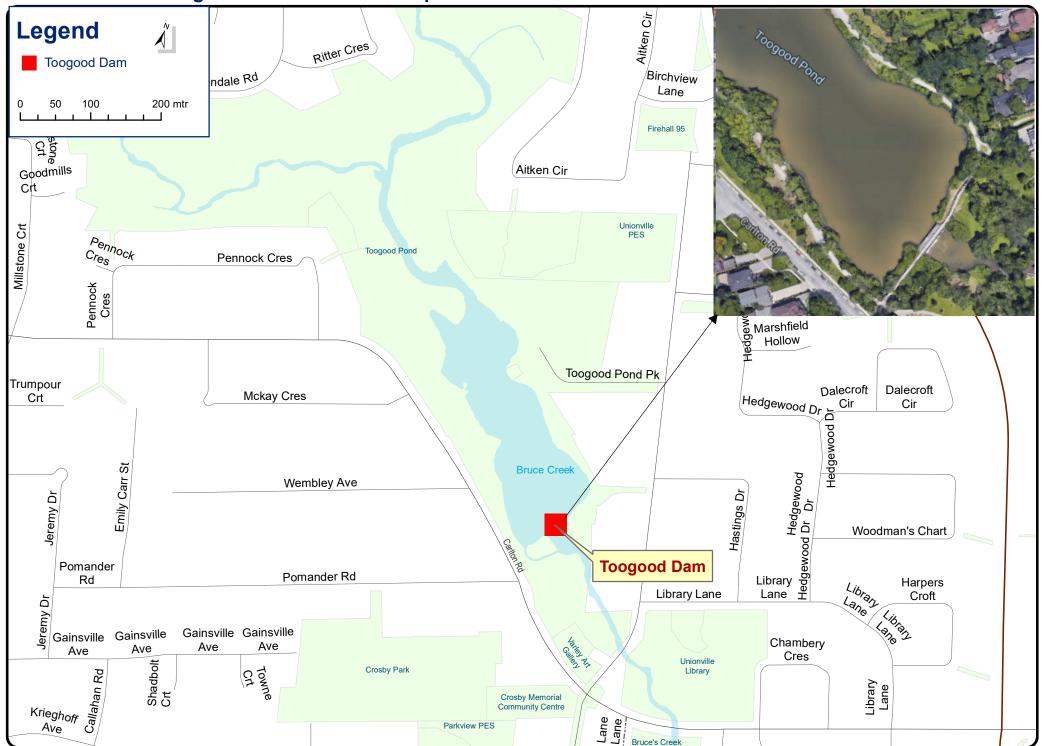
# Location Map: Structures Rehabilitation (5 Structures) - Design & Const.

ES - Infrastructure (2020)





TIMINITALI					140	umber.	20	240	
Duningt Names III	<b>D</b> G4 4	1 T			Project (	Cost:	<b>\$20,</b>	100	
Project Name: Toogood	Dam - Structura	Inspection				Studie	s/Pilot P	rograms	
Commission: Communit	y & Fire Services			ī	Jseful Life:	0		proval:	
Department: ES - Infras				Category:		O	i ic ripi	orovar.	
Project Mgr: Shipra Sin	gh		Co	•		actimata			
Ward(s): $CW \square 1 \square$	2 □ 3 ✔ 4 □		Cost Validation: Third party estimate  Requirement Validation: Multiple(specify)						
5 🗆	□ 6□ 7□ 8□		Requiremen	it vandation.	- Withtipic(sp	<u>cerry</u>			
ETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):							
his is a new program starti Intario Ministry of Natural 118 Consultant's Report (T	Resources (OMNR	) Guideline entitle	ed "Public Safet	y Around Da					
UILDING MARKHAM	'S FUTURE TOGI	ETHER: Safe &	& Sustainable Co	mmunity					
ROJECT COSTS (\$)	2020	Future Phases	NOTES	:4: :4:	:11 h				
Cost/Quote:	0	0		ition inspection for the					
Internal Charges:	0	0	Toogood D	am was const	ructed in 196	0. The Ci			
External Consulting:	19,800	0		very little floo e, Milne Dan			ed by TI	RCA as it	
Sub Total:	19,800	0		ecifically for			Ju by 11	CA as it	
HST Impact:	348	0		uested is cons	sistent with 2	019 Life	Cycle R	eserve	
<b>Total Project Cost:</b>	20,100	0	Study Upda	te.					
OURCE(S) OF FUNDIN	<u>G (\$)</u>		Comp	onents					
ınding Type	Budget					<u>TC</u>	<u>OTAL</u>	Future Phases	
perating Funded Life Cycle	20,100	0	0	0	(	)	0	0	
TOTAL FUNDING	20,100						0	0	
					T 114				
PERATING BUDGET	IMPACT Per			devenues	Expenditu	,	enues)		
	A 177 C	\$0	\$0	\$0		\$0			
<u>CA/LIFE CYCLE DETA</u> <u>DCA</u>	AILS			A	T :Co	Cuele			
Name		Ye	ear Amount	Amount in Study		Cycle	. —		
<u>- 111 - 1</u>						nt in Stu	•	20,100	
					Amou	nt Incl H	ST _	20,100	
					Year	in the stu	ıdy	2020	
DCA and/or Life Cycle	e: Explain if there is	a change in the ye	ear and/or cost:						
							-		





Number:	20247
---------	-------

Project Name: Common Mills Coddon Doub Francisco D			Project (	Cost:	\$223,900
	German Mills Settlers Park Erosi	on Protection-Cost Sharing		Repa	ir/Replace
•	Community & Fire Services		Jseful Life:	50	Pre Approval:
•	ES - Stormwater  Kate Rothwell	Category:	Major		
	CW □ 1 ✓ 2 □ 3 □ 4 □	Cost Validation:			
	5 🗆 6 🗆 7 🗆 8 🗆	Requirement Validation:	Condition a	issessme	ent

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

This project is to cost share with the Region of York/ TRCA for the replacement of pedestrian bridge (P025) with an extended bridge due to re-alignment of the watercourse to protect the Regional and City's infrastructure in this area (refer to attached map). Region/TRCA's EA identified that the current pedestrian bridge orientation directs the flow of the German Mills Creek towards the Region's trunk sanitary sewer which causes bank erosion. The bridge needs to be re-aligned and extended in order to align with the new watercourse alignment. City's share for pedestrian bridge replacement and erosion works is estimated by the Region to a maximum limit of \$220K. Region/ TRCA will manage the project.

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	Future Phases
Cost/Quote:	220,000	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	220,000	0
HST Impact:	3,872	0
Total Project Cost:	223,900	0
•	•	

#### NOTES

In 2018, the Region/TRCA approached the City to cost share the portion of erosion restoration works. As per Life Cycle, P025 was originally scheduled for rehabilitation in 2022 (\$101K) and replacement in 2053 (\$316K). As part of the work, Region/TRCA will restore four (4) City-owned erosion sites at a cost of approx. \$321K, which were scheduled in the next 5 years. The above works (738K) will no longer be required in the Life Cycle Reserve Study by proceeding with this project.

SOURCE(S) OF FUNDING	<u>(\$)</u>		Compone	ents			Futuro
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	223,900	0	0	0	0	0	0
TOTAL FUNDING	223,900				=	0	0

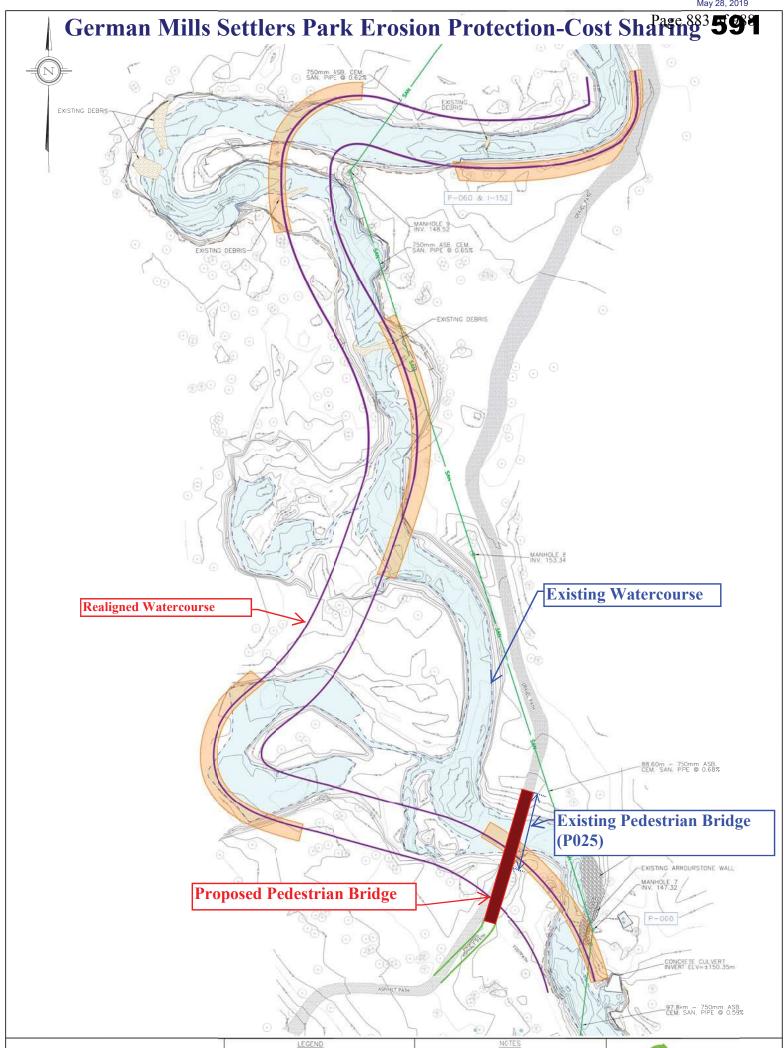
OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OT DARKTING BOD OFF INVITATION	\$0	\$0	\$0	\$0	

#### DCA/LIFE CYCLE DETAILS

DCA Name	Year	Amount	Amount in Study	<u>Life Cycle</u>	
Name	Teal	Amount	Study	Amount in Study:	223,900
				Amount Incl HST	223,900
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

2019 Life Cycle Reserve Study includes rehabilitation cost of \$101K in 2022 and a replacement cost of \$316K in 2053 for P025 as well as \$321K for four (4) erosion site restoration works in 2023. These restoration works are no longer required by proceeding with this project. 2020 Life Cycle will be updated to reflect the changes.





Page 885 🗖 🚳 🔾

2020 PROJECT FUNDING REQUEST FORM 20248 **Number: Project Cost:** \$215,400

a a					Studies/Pilo	ot Programs
Commission: Community	& Fire Services			Useful Life:	-	Approval:
Department: ES - Stormy			Category:		0 110	1 <b>1</b> pp10 ( <b>u</b> 1.
Project Mgr: Alan Manlu	ıcu		Cost Validation		4:4-	
Ward(s): $CW \boxed{\bullet} 1$	2□ 3□ 4□					
5 🗆	6□ 7□ 8□		Requirement Validation:	Multiple(sp	ecity)	
ETAILED DESCRIPTIO	N (SCOPE OF P	PROJECT):				
rior to stormwater being dis	scharged downstre gram will identify in 2020.	am. The accumulate the OGS that require	we sediment, screen debris, and pollutants need to be removed to be removed to be removed. Inventory: 40. In a Sustainable Community	oved as part	of a regular m	aintenance
PROJECT COSTS (\$)	2020	Future Phases	NOTES			
_			This is an annual program		1	1.
Cost/Quote:	211,700	0	Future requests may be Requirement Validation:			
Internal Charges: External Consulting:	0	0	compliance (Section 53	of Ontario Wa	ater Resources	s Act)
_	-		2019 Project Status: OG			
Sub Total:	211,700	0	2019. OGS cleaning tender will be released in July 2019.  Amount requested is consistent with 2019 Life Cycle Reserve			
HST Impact: _ Total Project Cost:	3,726	0	Study Update.		012 2110 0701	
Total Project Cost:	215,400					
OURCE(S) OF FUNDING	G (\$)		Components			<b>-</b>
BERCE(B) OF FEIGHT			Components			- Wintingo
	Budget	Inspection	Cleaning		TOTA	Future Phases
unding Type		Inspection 19,000		(	· · · · · · · · · · · · · · · · · · ·	<u>Phases</u>
unding Type perating Funded Life Cycle TOTAL FUNDING	Budget		Cleaning	(	<u> </u>	<u>Phases</u>
perating Funded Life Cycle  TOTAL FUNDING	215,400 215,400 Pe	19,000	Cleaning		215,400	Phases  O
perating Funded Life Cycle  TOTAL FUNDING	215,400 215,400 Pe	19,000	<u>Cleaning</u> 196,400 0		215,400	Phases  O
perating Type  TOTAL FUNDING  PERATING BUDGET II  CA/LIFE CYCLE DETA	215,400 215,400 Pe	19,000	Cleaning	Expenditu	215,400 215,400 res/(Revenue	Phases  O
perating Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET II  CA/LIFE CYCLE DETA  DCA	215,400 215,400 Pe	19,000  ersonnel Non Po \$0	Cleaning	Expenditu	215,400 215,400 res/(Revenue	Phases  O
unding Type perating Funded Life Cycle TOTAL FUNDING  PERATING BUDGET II CA/LIFE CYCLE DETA	215,400 215,400 Pe	19,000	Cleaning	Expenditu <u>Life</u>	215,400 215,400 res/(Revenue	Phases  O
perating Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET II  CA/LIFE CYCLE DETA  DCA	215,400 215,400 Pe	19,000  ersonnel Non Po \$0	Cleaning	Expenditu  Life  — Amou	215,400 215,400 res/(Revenue \$0	Phases  O S S S S S S S S S S S S S S S S S S
perating Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET II  CA/LIFE CYCLE DETA  DCA	215,400 215,400 Pe	19,000  ersonnel Non Po \$0	Cleaning	Expenditu  Life  Amou	215,400 215,400 215,400 res/(Revenue \$0  Cycle ant in Study:	Phases  215,400



Page 887**595** 

\$1,094,200

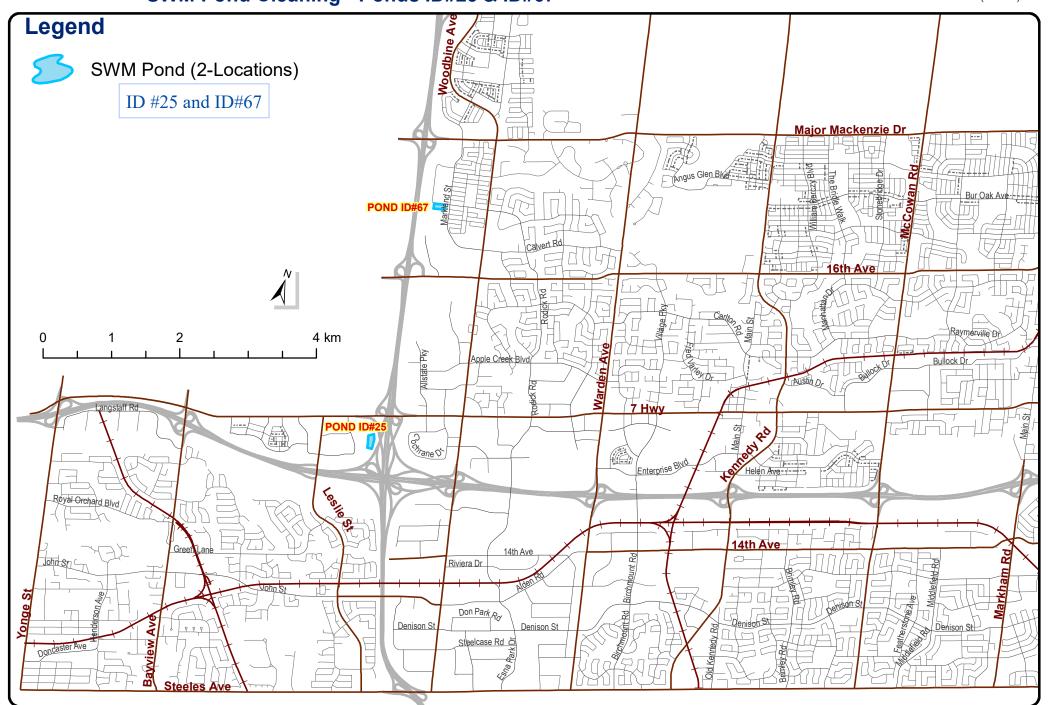
Number: 20249

**Project Cost:** 

Froject Name. SWN P	ona Cleaning - Po	nas 1D#25 & 1D	)#O/			Repair/	Replace	e
Commission: Commun	ity & Fire Services			Į	Jseful Life:	20 1	Pre Apr	oroval:
Department: ES - Stor				Category:				
Project Mgr: Alan Mar	nlucu		(	Cost Validation:		rda.		
Ward(s): $CW \square 1$	2 🗸 3 🗆 4 🗆							
5	□ 6□ 7□ 8✔		Requirem	ent Validation:	Multiple(sp	ecity)		
DETAILED DESCRIPT	ION (SCOPE OF P	ROJECT):						
Sediment cleaning, mainte (Ward 8) with current sedi attached location map. SWM Ponds require maint sediment is above regulato control function of the pon BUILDING MARKHAN	ment level: 71% and tenance to function ef ory limits (varies depend is maintained.	Pond #67: Hillmo ficiently. Sedimen nding on the pond	unt Park Ponet t levels need	d (Ward 2) with to be monitored ds need to be cl	h current sed l and when th	iment leve ne percenta	el of 859 age of a	%. Refer
			NOTES					
PROJECT COSTS (\$)	<u>2020</u>	Future Phases		entory: 56 wet p	onds			
Cost/Quote:	1,015,300	0	Requirem	ent Validation:	Condition as		_	
Internal Charges:	0	0		ce (Section 53, 0 s is responsible				
External Consulting:	60,000	0		ds while ES is				
Sub Total:	1,075,300	0	inspection	, sediment clear	ning, rehabili	itation and	l flood o	control
HST Impact:	18,925	0	strategies. Unit cost is consistent with recent award plus Amount requested is consistent with 2019 Life Cycle Res					
<b>Total Project Cost:</b>	1,094,200	0	Study Upo		sistent with 2	019 Life C	ycie K	eserve
SOURCE(S) OF FUNDI	NG (\$)	<u> </u>	Com	ponents				
		Compulsing						<u>Future</u>
Funding Type	Budget	Consulting	Constructi	<u> </u>			TAL	Phases
Gas Tax	1,094,200	61,056	1,033,144	0	(	1,094,	,200	
TOTAL FUNDING	1,094,200					1,094	,200	
ODED ATING DUDGET	Per Per	sonnel Non Po	ersonnel	Revenues	Expenditu	res/(Reve	nues)	
OPERATING BUDGET	IMPAC1	\$0	\$0	\$0		\$0		
DCA/LIFE CYCLE DET	CAILS							
<u>DCA</u>				Amount in	<u>Life</u>	Cycle		
Name		Ye	ear Amour	nt Study	– Amou	ınt in Stud	v:	
						nt Incl HS		
					Year	in the stud	1y	
DCA and/or Life Cyc	le: Explain if there is	a change in the ye	ar and/or cos	t:				

Project	SWM Pond Cleaning – Ponds ID #25 & # ID #67
2020 Capital Request	\$1,094,200
<b>Funding Source</b>	Life Cycle Reserve
Description of Program	<ul> <li>Sediment cleaning, maintenance and repairs to two Stormwater Management (SWM) Ponds:</li> <li>Pond #25: Commerce Valley East Pond (Ward 8) with current sediment level: 71%</li> <li>Pond #67: Hillmount Park Pond (Ward 2) with current sediment level of 85%.</li> <li>Total inventory: 56 wet ponds</li> </ul>
Project Rationale	SWM Ponds require maintenance to function efficiently. Sediment levels need to be monitored and when the percentage of accumulated sediment is above regulatory limits (varies depending on the pond design), ponds need to be cleaned to ensure that the approved quality control function of the pond is maintained.
Legislative Requirement	Yes - Section 53, Ontario Water Resources Act
History	<ul> <li>Based on the pond sediment level survey inspections, ponds are identified for cleaning.</li> <li>Operations is responsible for minor above ground maintenance on SWM ponds</li> <li>ES is responsible for all other aspects including inspection, sediment cleaning, rehabilitation and flood control strategies</li> </ul>
Future Phases	Based on the outcome of the bi-annual SWM Pond survey inspection results
Total Project Cost (incl. all phases)	Varies
Related Projects	SWM Pond - Condition Inspection
Related Maps	Location Map
Alignment to the Strategic Plan	<ul> <li>Safe and Sustainable Community</li> <li>Sediment cleaning maintains the downstream water quality, preserves the fish habitat and contributes to a sustainable, healthy eco system</li> </ul>

ES - Infrastructure (2020)





Page 891 **599** 

VIARKHAM	2020 1 1109	ECT T CIVET	TIO REQ		Nı	umber:	20	250
roject Name: Water Qu	ality Improvem	ents and Geese (	Control		Project (	Cost:	\$27,	600
		ents and Geese V				Studies/	Pilot P	rograms
Commission: Community				τ	Useful Life:	1 F	Pre App	proval:
Department: <u>ES - Stormy</u> Project Mgr: <u>Kate Rothw</u>				Category:	Minor			
	2□ 3 🗸 4□		Co	ost Validation:	Recent awa	rds		
.,	6□ 7□ 8□		Requireme	nt Validation:	Other(speci	fy in Note:	s)	
ETAILED DESCRIPTIO		DAIFCT).						
ontinue with the Swan Lake provements at other storm anagement ponds.  UILDING MARKHAM'S	water facilities. Pr	ogram is intended		curring water q				ormwater
OJECT COSTS (\$)	2020	Future Phases	NOTES					
Cost/Quote:	27,100	0		annual progran ty improveme				
Internal Charges:	0	0		I facilities as r		ake, 100g	00010	na, ana a
External Consulting:	0	0		year expenditu				
Sub Total:	27,100	0		nt Validation: quested is cons				eserve
HST Impact:	477	0	Study Upd	ate.			•	
Total Project Cost:	27,600	0						
URCE(S) OF FUNDING	G (\$)		Comp	ponents				
ading Type	Budget					<u>TO</u>	<u>ral</u>	Future Phases
rating Funded Life Cycle	27,600	0	0	0	(	)	0	
OTAL FUNDING	27,600						0	
PERATING BUDGET IN	MPACT Per		ersonnel 3	Revenues \$0	Expenditu	res/(Rever	nues)	
CA/LIFE CYCLE DETA	<u>ILS</u>							
<u>DCA</u> Name		Ye	ar Amoun	Amount in Study		<u>Cycle</u>	_	
						int in Study	`	27,600
						nt Incl HS		27,600
					Year	in the stud	ly	2020
DCA and/or Life Cycle:	Explain if there is	a change in the year	ar and/or cost	:				



Page 893**604** 

2020 PROJECT FUNDING REQUEST FORM 20251 **Number:** 

Droingt Name: TT 4	_1:4_ B# · ·	_				Projec	t Cost:	\$27,	,600
Project Name: Water Qu		g					Stud	lies/Pilot I	Programs
Commission: Community	& Fire Services				1	Useful Life	: 0	Pre An	proval:
Department: ES - Stormy					Category:		. 0	11011p	prover
Project Mgr: Kate Rothw	ell				• •		1.		
Ward(s): $CW \square 1 \square$	2 🗆 3 🗆 4 🗆				Cost Validation:				
5 🗸	6□ 7□ 8□		-	Requiren	nent Validation:	Other(spe	ecity in N	lotes)	
DETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):	:						
Continue with the water qual aspection program. The limit pplication, the lake still remotions & assess benefits of grant BUILDING MARKHAM'S	nologist report (20 nains eutrophic & a geese control.	14) on Swa at risk of tox	n Lake con kic algae gr	ncluded v rowth. M	hile nutrient co	ncentration	s were re	duced by	Phoslock
PROJECT COSTS (\$)	2020	Future P		NOTES					
Cost/Quote:	0	<u>r uture r</u>			dation: In Feb 2 in Swan Lake.				
_				L	ness of geese co			monitore	d for the
Internal Charges: External Consulting:	0 27,100		0	Unit cost	is consistent wi	th recent av	ward plus		
			<del></del>		requested is con	sistent with	2019 Li	fe Cycle R	Reserve
Sub Total:	27,100			Study Up	date.				
HST Impact:	477		0						
Total Project Cost:	27,600		0						
OURCE(S) OF FUNDING	<del>G (\$)</del>			Coi	nponents				
unding Type	Budget						]	<u> FOTAL</u>	Future Phases
perating Funded Life Cycle	27,600		0	0	0		0	0	
TOTAL FUNDING	27,600							0	
TOTAL FUNDING	27,000								
PERATING BUDGET I	Pe	rsonnel	Non Perso	onnel	Revenues	Expendit	tures/(Re	evenues)	
PERATING DUDGET II	WPACI	\$0	\$0		\$0		\$0		
CA/LIFE CYCLE DETA	<u>ILS</u>								
<u>DCA</u>					Amount in	<u>Li</u> t	<u>fe Cycle</u>		
Name			Year	Amou	nt Study	Am	ount in S	tudy:	27,600
							ount Incl		27,600
							ir in the		
DCA and/or Life Cycle:	Explain if there is	s a change i	n the vear a	and/or co	st:	1 62	ir in the s	study	2020
2 C. I alia, of Elic Cycle.									



Project Name: Incremental Growth Related Waste Management Vehicles    New AssetExpansion	MARKHAM	2020 I KOJ	ECI FUNDI	ING REQUE		Number	: 20	253
Note   New Asset/Expansion   Community & Fire Services   Department:   ES - Waste   Project Mgr: Claudia Marsales   Category:   Annual   Cost Validation:   Internal poer review   Project Mgr: Claudia Marsales   Category:   Annual   Cost Validation:   Other(specify in Notes)   DETAILED DESCRIPTION (SCOPE OF PROJECT):   Development Charge (DC) funding for additional growth-related waste management vehicles purchased by contractor. If waste management was done in-house, these vehicles would need to be purchased by the City, so this request is to obtain DC funding to off a portion of the capital cost included in the waste management contract paid through Operating accounts.   BUILDING MARKHAM'S FUTURE TOGETHER:   PROJECT COSTS (\$)	Project Name: Incremen	tal Crowth Pale	otad Wasta Man	agament Vahiel	-	ect Cost:	\$100	,000
Department: ES - Waste Project Mgr: Claudia Marsales Ward(s): Cw 2 1 2 3 4 4 5 6 7 8 5 Cost Validation: Ward(s): Cw 2 1 3 4 5 6 7 8 5 Cost Validation: Requirement Validation:			iteu waste man	agement venici	<u></u>	New	Asset/Exp	oansion
Project Mgr: Claudia Marsales  Ward(s):					Useful Li	fe: 0	Pre App	proval:
Ward(s): CW V 1					Category: Annual	<u> </u>		
Requirement Validation:    Component   Com				Cost V	alidation: Interna	l peer revie	w	
DETAILED DESCRIPTION (SCOPE OF PROJECT):  Development Charge (DC) funding for additional growth-related waste management vehicles purchased by contractor. If waste management was done in-house, these vehicles would need to be purchased by the City, so this request is to obtain DC funding to off a portion of the capital cost included in the waste management contract paid through Operating accounts.  BUILDING MARKHAM'S FUTURE TOGETHER:  PROJECT COSTS (S) 2020 Future Phases  Cost/Quote: 100,000 0 0  Internal Charges: 0 0 0  External Consulting: 0 0 0  Sub Total: 100,000 0 0  HST Impact: 0 0 0  Total Project Cost: 100,000 0 0  HST Impact: 0 0 0  TOTAL Project Cost: 100,000 0 0  TOTAL FUNDING (S) Components  Funding Type Budget TOTAL  TOTAL  Personnel Non Personnel Revenues Expenditures/(Revenues)  SOPERATING BUDGET IMPACT So \$0 \$0 \$0 \$0  DOZA/LIFE CYCLE DETAILS  DCA  Name Year Amount in Study:  Amount in Study:  Amount Incl HST   Amount Incl HST   Tyear in the study   Tyear in the stud	.,			Requirement V	alidation: Other(s	specify in N	otes)	
Development Charge (DC) funding for additional growth-related waste management vehicles purchased by contractor. If waste management was done in-house, these vehicles would need to be purchased by the City, so this request is to obtain DC funding to off a portion of the capital cost included in the waste management contract paid through Operating accounts.  BUILDING MARKHAM'S FUTURE TOGETHER:  PROJECT COSTS (\$) 2020 Future Phases  Cost/Quote: 100,000 0 0 Internal Charges: 0 0 0 External Consulting: 0 0 0 Sub Total: 100,000 0 0 HST Impact: 0 0 0 Total Project Cost: 100,000 0 0  SOURCE(S) OF FUNDING (\$) Components  Funding Type Budget TOTAL Phases  OCA 100,000 0 0 0 0 0 0 0  TOTAL FUNDING 100,000 0 0 0 0 0 0 0  DOPERATING BUDGET IMPACT So So So So  DCA/LIFE CYCLE DETAILS  DCA Name Year Amount Study  Amount in Study: Amount line HST					-			
Amount requested is per 2017 Development Charges Backgroun   Cost/Quote:   100,000   0	Development Charge (DC) f management was done in-ho a portion of the capital cost i	funding for addition use, these vehicles included in the was	nal growth-related would need to be parter management con	ourchased by the C	City, so this request	is to obtain		
Amount requested is per 2017 Development Charges Backgroun   Cost/Quote:   100,000   0	DDA IFCT CASTS (\$)	2020	E ( DI	NOTES				
Internal Charges: 0				Amount reques	ted is per 2017 De	velopment (	Charges B	ackground
External Consulting:	_			Study.				
Sub Total:   100,000	•							
HST Impact:   0   0   0   0   0   0   0   0   0	<del>-</del>							
Total Project Cost:   100,000   0	=	<del></del>						
Funding Type   Budget   TOTAL   Phase	_							
Funding Type	SOURCE(S) OF FUNDING	G (\$)		Compone	ents			
TOTAL FUNDING 100,000  Personnel Non Personnel Revenues Expenditures/(Revenues) \$0 \$0 \$0 \$0  DCA/LIFE CYCLE DETAILS  DCA Name Year Amount in Study: Amount in Study: Amount Incl HST Year in the study	Funding Type	Budget				Ţ	TOTAL	<u>Future</u> <u>Phases</u>
OPERATING BUDGET IMPACT  \$0 \$0 \$0 \$0 \$0  DCA/LIFE CYCLE DETAILS  DCA Name  Year Amount in Study: Amount in Study: Amount Incl HST Year in the study	DCA	100,000	0	0	0	0	0	0
SO \$0 \$0 \$0  DCA/LIFE CYCLE DETAILS  DCA Name Year Amount in Study  Amount in Study: Amount in Study: Amount Incl HST Year in the study	TOTAL FUNDING	100,000					0	0
DCA     Year Amount in Study       Name     Year Amount in Study         Amount in Study:       Amount Incl HST       Year in the study		MPACT			•		venues)	
Name  Year Amount Study  Amount in Study:  Amount Incl HST  Year in the study				A	mount in	Life Cycle		
Amount Incl HST Year in the study	Name		Ye		Study	•	ndv.	
Year in the study							•	
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:					1	ear in the s	study	
	DCA and/or Life Cycle	: Explain if there is	s a change in the ye	ar and/or cost:				



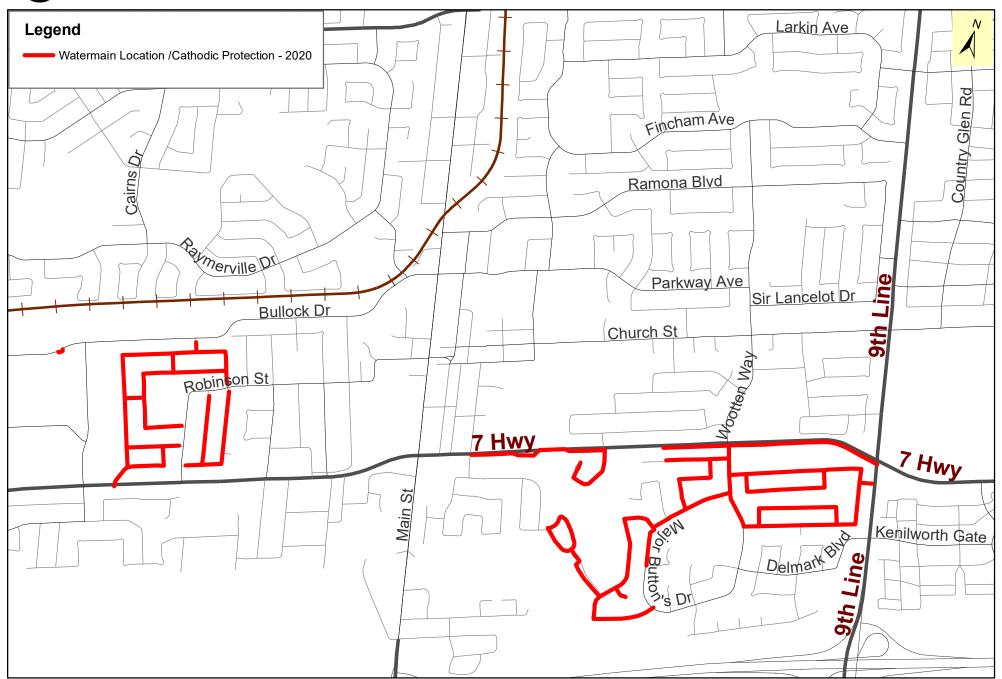
MARKHAM	2020 PROJ				Number	: 20	254
Project Names G 12 4	env . O	14 N. 1.1		Pr	oject Cost:	\$193	,400
Project Name: Calibration	on of Water Qua	ality Model			Stud	ies/Pilot P	rograms
Commission: Community	& Fire Services			II C 1	-		
Department: ES - Water	works			Useful		Pre Ap	proval: $\square$
Project Mgr: Shu Min G	ao			Category: Majo			
Ward(s): CW ✓ 1	2 □ 3 □ 4 □		Cos	t Validation: Rece	ent awards		
	6 7 8		Requiremen	t Validation: Othe	er(specify in N	otes)	
DETAILED DESCRIPTIO	ON (SCOPE OF P	ROJECT):					
This project is to update the surnover while assuring high contaminants in the system. How and associated chlorine calibration of the City's water BUILDING MARKHAM!	water quality is m City's water source disinfection conce er quality model to	aintained at all time e suppliers, York R entrations that are d reflect the changes	es. The model a degion & City of delivered into M	also identifies strat f Toronto, made op arkham's water dis	egies to removerational chan	e and flus ges that a	h potential ffects wate
PROJECT COSTS (\$)	2020	Future Phases	NOTES				
				t validation: model		once ever	y 5 years.
Cost/Quote:	190,055	0	Last update	was completed in 2	2015.		
Internal Charges:	0	0					
External Consulting:	0	0					
Sub Total:	190,055	0					
HST Impact:	3,345	0					
Total Project Cost:	193,400						
SOURCE(S) OF FUNDING	<del>G (\$)</del>		Compe	onents			
Funding Type	Budget				]	TOTAL	<u>Future</u> <u>Phases</u>
		0	0	0	0	0	
Waterworks	193,400	0	0	0	0	0	
TOTAL PUNDING	193,400					0	
TOTAL FUNDING	<del></del>						
	MDA CT Pe	rsonnel Non Po	ersonnel R	evenues Exp	enditures/(Re	evenues)	
	MPACT Pe		ersonnel R	evenues Exp	enditures/(Re	evenues)	
OPERATING BUDGET I	MPACT			•		evenues)	
OPERATING BUDGET I	MPACT		\$0	•		evenues)	
OPERATING BUDGET I	MPACT	\$0		\$0	\$0  Life Cycle		
OPERATING BUDGET I DCA/LIFE CYCLE DETA DCA	MPACT	\$0	\$0	\$0 Amount in	\$0  Life Cycle  Amount in Se	tudy:	
OPERATING BUDGET I DCA/LIFE CYCLE DETA DCA	MPACT	\$0	\$0	\$0 Amount in	\$0  Life Cycle	tudy:	



Project Name: Cathodic Protection of Cast Iron Watermains

2020 PROJECT FUNDING REQUEST FORM		1 450 077	<b>)U</b> 7
2020 I KOJECI I ONDING REQUESI I ORM	Number:	20255	
Pro	ject Cost:	\$378,900	

					Repair/Replac	e
Commission: Community	& Fire Services		1	Useful Life:	20 Pre Ap	proval:
Department: ES - Watery			Category:		Y	1
Project Mgr: Vikas Thak	ur		Cost Validation:		unda	
Ward(s): $CW \square 1 \square$	2 □ 3 □ 4 🗹			-		
5 🗆	6□ 7□ 8□		Requirement Validation:	Condition a	issessment	
DETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):				
Program to install corrosion of corrosion protection is necessary and a second corrosion protection is necessary as a second correspond to the corresponding	cessary to replace the	he depleted anode			/ prevent corrosion	on. Renewal
PROJECT COSTS (\$)	2020	Future Phases	NOTES			
Cost/Quote:	323,200	0	This is an annual program			
Internal Charges:	50,000	0	1993 with an avg. of 120 to an avg. of 32 breaks/y			
External Consulting:	0	0	cast iron watermains corr	rosion protect	tion commenced	in 2014.
Sub Total:	373,200	0	This request is to install a watermain (Refer to attack			
HST Impact:	5,688		month period each year (			
Total Project Cost:	378,900	0	award plus inflation.			
=	370,500	<u>U</u>				
SOURCE(S) OF FUNDING	<u> </u>		Components			Eutuma
Funding Type	<u>Budget</u>	Construction	Internal staff		TOTAL	<u>Future</u> <u>Phases</u>
Vaterworks	378,900	328,900	50,000 0	(	378,900	0
TOTAL FUNDING	378,900				378,900	0
OPERATING BUDGET II	MPACT Per	rsonnel Non P	ersonnel Revenues	Expenditu	res/(Revenues)	
		\$0	\$0 \$0		\$0	
DCA/LIFE CYCLE DETA DCA	<u>ILS</u>					
Name		Ye	Amount in ear Amount Study	<u>Life</u>	Cycle	
- Tunic				— Amou	ınt in Study:	
				Amou	int Incl HST	
				Year	in the study	2020
DCA and/or Life Cycle:	Explain if there is	a change in the ye	ear and/or cost:			





Page 903 6 78

Number:	20257

main Kepiacemo	Cometanie	P- CA	Project (	<b>\$5</b> ,	729,700
0.77	ent - Constructio	OH & CA		Repair/Rep	ace
y & Fire Services		Ţ	Jseful Life:	90 Pre 2	Approval:
		Category:	Major		••
				rds	
] 6□ 7□ 8□		requirement variation.	Condition a	35C55IIICIII	
Administration for reched map).	eplacement of 4.1 k		nin that have 1	reached the se	rvice life in the
2020	Future Phases	NOTES This is an annual program	n (Phase 2 of	15: ending in	2032).
5,353,164	68,803,725	Total CI Watermain: 54.1	lkm		
0	0	1 1 -		1 0	
277,436	0			epiaced with	ine PVC or wi
5,630,600	68,803,725	Cost is consistent with re-	cent award pr	ices plus infla	tion.
99,099	1,210,946				
5,729,700	70,014,700				
G (\$)		Components			_
Budget	<u>CA</u>	Construction		TOTAL	Future Phases
5,729,700	282,319	5,447,381 0	C	5,729,700	70,014,700
3,727,700					
5,729,700				_5,729,700	70,014,700
	rsonnel Non Pe	ersonnel Revenues	Expenditu		
5,729,700		ersonnel Revenues 50 \$0	•		
			•	es/(Revenues	
	\$0 \$	Amount in	•	es/(Revenues	
		Amount in	<u>Life</u>	res/(Revenues \$0 Cycle	
	\$0 \$	Amount in	Life — Amou	res/(Revenues \$0 Cycle nt in Study:	
	\$0 \$	Amount in	Life — Amou Amou	Cycle nt in Study:	9)
	\$0 \$ Ye	Amount in Study	Life — Amou Amou	res/(Revenues \$0 Cycle nt in Study:	_
	\$0 \$ Ye	Amount in Study	Life — Amou Amou	Cycle nt in Study:	9)
	\$0 \$ Ye	Amount in Study	Life — Amou Amou	Cycle nt in Study:	s)
	\$0 \$ Ye	Amount in Study	Life — Amou Amou	Cycle nt in Study:	9)
	\$0 \$ Ye	Amount in Study	Life — Amou Amou	Cycle nt in Study:	9)
	\$0 \$ Ye	Amount in Study	Life — Amou Amou	Cycle nt in Study:	9)
	Administration for reched map).  2S FUTURE TOGI  2020  5,353,164  0 277,436  5,630,600  99,099  5,729,700  G (\$)	2	Category:   Cost Validation:   Cost Validation:   Cost Validation:   Cost Validation:   Requirement Validation:   Requirement Validation:   Cost Validation:   Requirement Validation:   Requirement Validation:   All Validation:   Cost Validation:   Requirement Validation:   Requirement Validation:   All Validation:   Cost Validation:   Requirement Validation:   Requirement Validation:   All Validation:   Cost Validation:   Requirement Validation:   Requirement Validation:   All Validation:   Cost Validation:   Requirement Validation:   Requirement Validation:   All Validation:   Cost Validation:   Requirement Validation:   All Validation:   Cost Validation:   All Validation:   Cost Vali	Category: Major  Cost Validation: Recent award property of the cast iron watermain replacement watermain replacement watermain will be systematically replaced by 1,210,946  5,729,700  Cost Validation: Recent award property of the cast iron (CI) watermain that have replacement of 4.1 km of cast iron (CI) w	Category: Major  Cost Validation: Requirement Validation: Requirement Validation: Requirement Validation: Condition assessment  Non (SCOPE OF PROJECT):  Administration for replacement of 4.1 km of cast iron (CI) watermain that have reached the service map).  SEFUTURE TOGETHER: Safe & Sustainable Community    2020

Project	Cast Iron Watemain	Cast Iron Watemain Replacement – Construction & Contract Administration						
2020 Capital Request	\$5,729,700	\$5,729,700						
Funding Source	Waterworks Reserves							
Description of Program	the service life in the	Construction and Contract Administration for replacement of 4.1 km of cast iron (CI) watermain that have reached the service life in the Laureleaf area. This is an annual program (Phase 2 of 15; ending in 2032).  Total CI Watermain: 54.1km (as of 2019)						
Project Rationale		n watermain replacement ; be rehabilitated with CIPP			st iron watermain will be systematically re	placed		
Legislative Requirement	Yes – Drinking Water	r Quality Management Sys	stem	(DWQMS)				
History	Total CI Watermain I CI watermain replace							
	Phase #	Replacement Year	В	udget Cost	Comments			
	Phase 1	2019	\$	13,624,200	6.8 km of Watermain replacement			
	Phase 2	2020	\$	5,897,500	1.8 km of watermain replacement in West			
					Thornhill Area			
<b>Future Phases</b>			\$	5,729,700	4.1 km of watermain replacement in			
					Laureleaf Road area			
	Phase 3a	2020	\$	439,600	Watermain Relining - Design			
	Phase 3b to Phase 15	2021 - 2032	\$	70,014,700	41.4 km remaining			
	<b>Budget Cost of Futu</b>	re Phases (2021-2032)	\$	70,014,700				
Total Project Cost (incl. all phases)	\$95.6M							
Related Projects	CI Watermain Re	placement – West Thornhi	ll Fl	ood Control	Implementation Areas			
Related Maps	Location Map							
Alignment to the	Safe and Sustainable	<u> </u>						
Strategic Plan			ation	program red	uces service interruptions, improves supply	y capacity		
Strategie i iuii	and reliability, and	d maintains water quality						

Location Map
CI Watermain Replacement - Construction & CA ES - Infrastructure (2020) A12 - Laureleaf Area John : **LEGEND** Tside Park Coral Harbour Cres **Duncan Park** Cast Iron Watermain Replacement Cypress Point Crt Bayview Fairways Ladyslipper C Glencrest Park Cottonwood Cr Sarrister's Crt Bayview Fairways PES Don Valley Park Ladyslipper Crt Royal Birkdale Lane Dawn Hill Trail Poinsetta D Sea Island Path Sprucewood Dr Bayview Fairways Dr King's Inn Trail Wildrose Cres Laureleaf Rd Laureleaf Rd German Mills Meadow and Natural Habitat Bayview Ave Poinsetta Dr Prescott Crt Charlie Clifford Park Doncrest Dr Brendan / Fairway Heights Dr Old Englis h Bayview Glen Park Babcombe Dr Bayview Glen PES Proctor Ave Proctor Ave Doncrest Dr Bayview Ave incombe Dr Limcombe Dr Valloncliffe Rd Laureleaf Rd Waterloo Crt Steele Valley Rd Seinecliffe R Laureleaf Rd Apricot \$ Fairway Heights Cres Limcombe Dr Apricot St ∢airway Heights Dr Hammok Cres Apriicot St aureleaf Rd Canadiana Dr Lafayette Pl Matta Lane Valloncliffe Rd Bayview Stonefarm Park **English Lane** Barc/ay Cn Barclay Crt Barclay Crt Huckleberry Lane Laureleaf Rd Apricot St **Steeles Ave** Steeles Ave **Steeles Ave Steeles Ave Steeles Ave** 



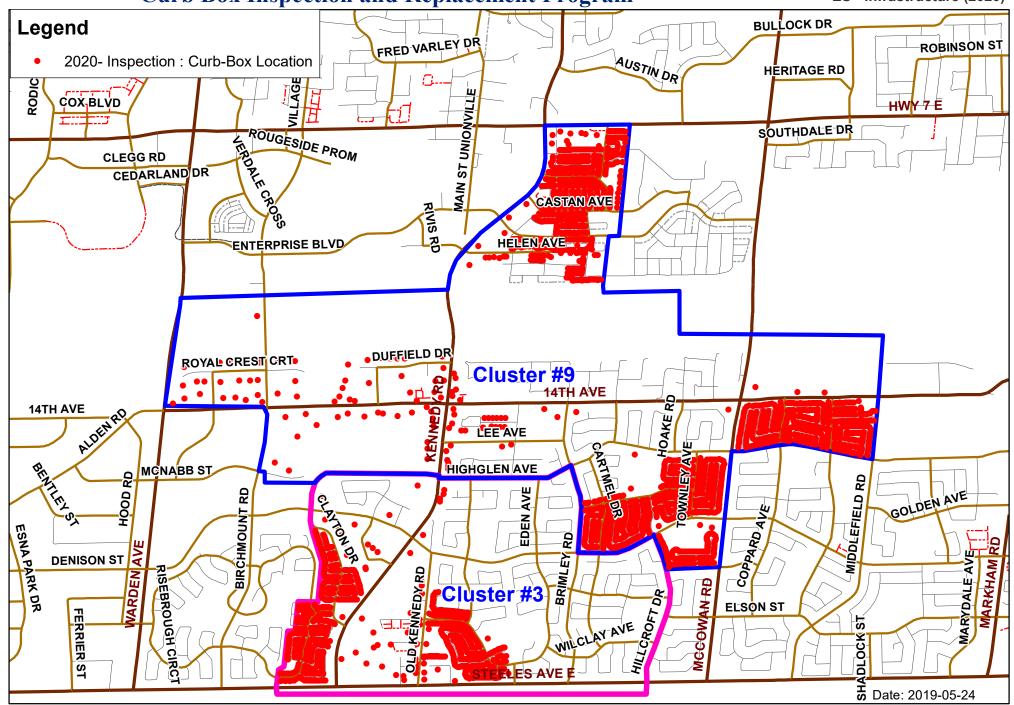
Page 907**675** 

<u> Viarkham</u>	2020 I ROS	Let I em	III O RE	20110	Nı	umber:	20	259
					Project (	Cost:	\$614	,100
Project Name: Curb Box	Inspection and	Replacement P	rogram			Repair	·/Replace	2
Commission: Community	& Fire Services			I	Jseful Life:	20	<u></u>	oroval:
Department: ES - Watery				Category:		20	110 11p	510 val.
Project Mgr: Vikas Thakur			Cost Validation:					
Ward(s): $CW \square 1 \square$	$\operatorname{ard}(s)$ : $CW \square 1 \square 2 \square 3 \checkmark 4 \square$						.4	
5 🗆	6 7 <b>v</b> 8 <b>v</b>		Requirer	nent Validation:	Condition a	issessinei	11	
ETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):						
xes/ stop valves deteriorated reduce service interruption	on.		& Sustainable					FF-J
ROJECT COSTS (\$)	2020	Future Phases	NOTES This is a	annual progran	<u> </u>			
Cost/Quote:	554,300	0		entory: 81,784 c		his reque	st is to i	nspect
Internal Charges:	50,000	0		3,309 curb boxes				attached 0k). state of
External Consulting:	0	0		ty inspector is re				
Sub Total:	604,300	0	There is	no substantial ba	cklog and cu	rb boxes	are in a	
HST Impact:	9,756	0	good rep	air. Unit cost is o	consistent wit	th recent	award p	lus inflation
Total Project Cost:	614,100	0						
URCE(S) OF FUNDING	G (\$)		Co	nponents				Futumo
nding Type	<b>Budget</b>					<u>T(</u>	<u>)TAL</u>	<u>Future</u> <u>Phases</u>
terworks	614,100	0	0	0	(	)	0	0
TOTAL FUNDING	614,100						0	0
PERATING BUDGET I	MPACT Per	sonnel Non F	Personnel	Revenues	Expenditu	res/(Rev	enues)	
I DIMITING DUDGET II		\$0	\$0	\$0		\$0		
CA/LIFE CYCLE DETA	<u>ILS</u>							<del></del>

ERATING BUDGET IMPACT	1 CI SOIIIICI	110H I CI SOHH		CVCHUCS	Expenditures/(Revenues)	
ERATING BUDGET IMITACT	\$0	\$0		\$0	\$0	
/LIFE CYCLE DETAILS						
<u>DCA</u>				Amount in	<u>Life Cycle</u>	
Name		Year A	Amount	Study	— Amount in Study:	
					Amount Incl HST	
					Year in the study	
DCA and/or Life Cycle: Explain if t	here is a change	in the year and	or cost		Teal in the study	
CA and/or Life Cycle: Explain if t	nere is a change	in the year and	or cost:			

Project	Curb Box Inspection and Replacement Program
2020 Capital Request	\$614,100
<b>Funding Source</b>	Waterworks Reserves
	Program to conduct inspection of curb boxes and repair /replace defective curb boxes which are normally located at the property line. This is an annual program.
Description of Program	Total inventory: 81,784 curb boxes. This request is to inspect approx. 3,309 curb boxes and replacement of approx. 25% curb boxes and damaged sidewalk bays as required. City inspector is required for 6 month period (\$50k).
Project Rationale	Curb box/ stop valve is the main control appurtenance for the City to turn on/off water supply to the private property. Over time, curb boxes/ stop valves deteriorate and become inoperable. Proactive inspection and repairs are required to ensure continuous water supply and reduce service interruption.
Legislative Requirement	Yes – Drinking Water Quality Management System (DWQMS)
History	Historically 2,000 – 3,000 curb boxes are inspected annually
Future Phases	This is an annual program. approx. $3,300-4,300$ curb boxes are inspected and 25% of curb boxes are replaced
Total Project Cost (incl. all phases)	Varies
Related Projects	None
Related Maps	Location Map
Alignment to the Strategic Plan	<ul> <li>Safe and Sustainable Community</li> <li>Timely rehabilitation of curb boxes reduces service interruptions, maintains water quality and supports City's vision for a sustainable community</li> </ul>

**Curb Box Inspection and Replacement Program** 





Project Name: I/I Investigation - Carlton Pump Station Catchment Area

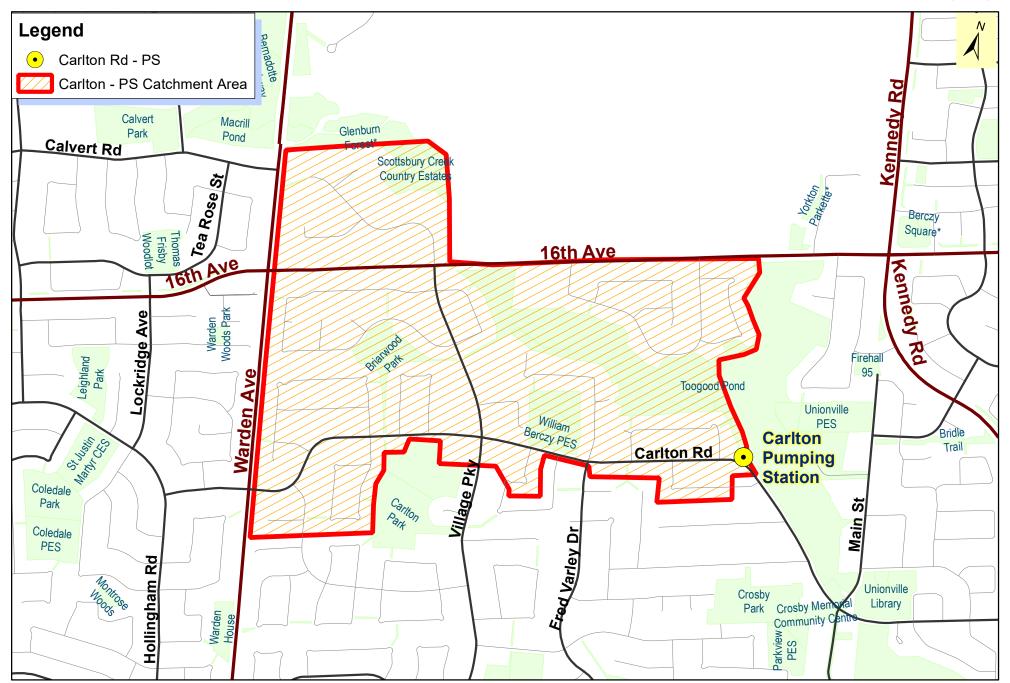
	Page 911 <b>6</b> 9	<b>89</b>
er:	20260	

\$101,800

Studies/Pilot Programs

**Project Cost:** 

			Ţ	Jseful Life: 0	Pre An	proval: $\square$		
Department: ES - Water	rworks					TTC Ap	provar. —	
Project Mgr: Lijing Xu			~	Category:				
Ward(s): $CW \square 1 \square$	2 □ 3 🗸 4 □				: Recent awards			
5 🗆	□ 6□ 7□ 8□		Requirement	Validation:	Other(specify in l	Notes)		
DETAILED DESCRIPTION		ROJECT):						
This project is to undertake			ation for the Ca	arlton Pump S	Station tributary ar	ea. The resi	ults of this	
investigation will allow a co							and/or wet	
well upsizing, to determine	the most cost-effect	ive approach. Dye t	esting for appr	ox. 200 hom	es is included in th	is project.		
BUILDING MARKHAM	'S FUTURE TOCI	THED. Safe &	Sustainable Con	nmunity				
DUILDING WARRIIAWI	S FUTURE TOGI	ETHER. Sale &	Sustainuoie Con					
PROJECT COSTS (\$)	2020	Future Phases	NOTES					
	<u> </u>				replaced as they w			
Cost/Quote:	0	0			flow monitoring dance of the control			
Internal Charges:	0	0			ig more frequently			
External Consulting:	100,000	0			indicated that the			
Sub Total:	100,000	0			ng a 5 year storm. A city analysis and the			
HST Impact:	1,760	0			e I/I investigation			
Total Project Cost:	101,800	0			cture upgrades to t			
COLID CE(C) OF ELINDIN	C (\$)							
SOURCE(S) OF FUNDING	<u>G (3)</u>		Compo	onents			<b>Future</b>	
Funding Type	<u>Budget</u>					TOTAL	<u>Phases</u>	
Waterworks	101,800	0	0	0	0	0	0	
Waterworks TOTAL FUNDING	101,800 101,800	0	0	0	0	0 <b>0</b>	0	
	·	0	0	0	0			
TOTAL FUNDING	101,800				=	0		
	101,800	rsonnel Non Pe	rsonnel R	evenues	Expenditures/(R	0		
TOTAL FUNDING  OPERATING BUDGET 1			rsonnel R		=	0		
TOTAL FUNDING  OPERATING BUDGET 1		rsonnel Non Pe	rsonnel R	evenues \$0	Expenditures/(R \$0	0 Revenues)		
OPERATING BUDGET I		rsonnel Non Pe	rsonnel R	evenues	Expenditures/(R \$0	devenues)		
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA		rsonnel Non Pe \$0 \$	rsonnel R	evenues \$0 Amount in	Expenditures/(R \$0  Life Cycle Amount in \$2	devenues)		
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA		rsonnel Non Pe \$0 \$	rsonnel R	evenues \$0 Amount in	Expenditures/(R \$0	devenues)		
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA		rsonnel Non Pe \$0 \$	rsonnel R	evenues \$0 Amount in	Expenditures/(R \$0  Life Cycle Amount in \$2	Revenues)  Study:		
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA	101,800 Per AILS	rsonnel Non Pe \$0 \$ Yea	rsonnel R	evenues \$0 Amount in	Expenditures/(R \$0  Life Cycle  Amount in Amount Inc.	Revenues)  Study:		
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	101,800 Per AILS	rsonnel Non Pe \$0 \$ Yea	rsonnel R	evenues \$0 Amount in	Expenditures/(R \$0  Life Cycle  Amount in Amount Inc.	Revenues)  Study:		
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	101,800 Per AILS	rsonnel Non Pe \$0 \$ Yea	rsonnel R	evenues \$0 Amount in	Expenditures/(R \$0  Life Cycle  Amount in Amount Inc.	Revenues)  Study:		
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	101,800 Per AILS	rsonnel Non Pe \$0 \$ Yea	rsonnel R	evenues \$0 Amount in	Expenditures/(R \$0  Life Cycle  Amount in Amount Inc.	Revenues)  Study:		
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	101,800 Per AILS	rsonnel Non Pe \$0 \$ Yea	rsonnel R	evenues \$0 Amount in	Expenditures/(R \$0  Life Cycle  Amount in Amount Inc.	Revenues)  Study:		
TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	101,800 Per AILS	rsonnel Non Pe \$0 \$ Yea	rsonnel R	evenues \$0 Amount in	Expenditures/(R \$0  Life Cycle  Amount in Amount Inc.	Revenues)  Study:		





Page 915 **6 23**Number: 20261

D N				Project (	Cost: \$	910,600
Project Name: Sanitary S	Sewers - Rehabil	itation			Repair/Re	place
Commission: Community	& Fire Services			Useful Life:	50 Pre	Approval:
Department: ES - Water	works		Category:		30 110	търночи.
Project Mgr: David Huy	nh				1	
Ward(s): CW ✓ 1	2 3 4 4		Cost Validation	-		
5 🗆	5□ 6□ 7□ 8□			Condition a	ssessment	
DETAILED DESCRIPTIO	ON (SCOPE OF P	ROJECT):				
Program to rehabilitate the n	nain sewer, service	laterals using struc	ctural liner including repairs	to manholes.		
BUILDING MARKHAM'	S FUTURE TOGI	ETHER: Safe &	z Sustainable Community			
PROJECT COSTS (\$)	2020	Future Phases	NOTES			
Cost/Quote:	835,900	0	This is an annual program Program is to rehabilitate		samilaa 1	otomolo voimo
			structural liner and repai			
Internal Charges:	60,000	0	inspection programs. Cit			
External Consulting:	0	0	(\$60K).			
Sub Total:	895,900	0	Sanitary sewers are in a	state of good	repair.	
HST Impact:	14,712	0				
Total Project Cost:	910,600	0				
SOURCE(S) OF FUNDING	G (\$)		Components			<b>— — — — — — — — — —</b>
Funding Type	<u>Budget</u>	<u>Internal staff</u>	Construction		TOTA	Future AL Phases
Waterworks	910,600	60,000	850,600 0	(	910,60	0 0
TOTAL FUNDING	910,600				910,60	00 0
OPERATING BUDGET I	MPACT Per		ersonnel Revenues	Expenditu	res/(Revenu	es)
		\$0	\$0 \$0		\$0	
DCA/LIFE CYCLE DETA	AILS					
<u>DCA</u>		<b>X</b> 7.	Amount in	<u>Life</u>	Cycle	
Name		Y	ear Amount Study	— Amou	int in Study:	
				Amou	nt Incl HST	
					in the study	
				1 Cai	in the study	
DCA and/or Life Cycle	: Explain if there is	a change in the ye	ear and/or cost:			

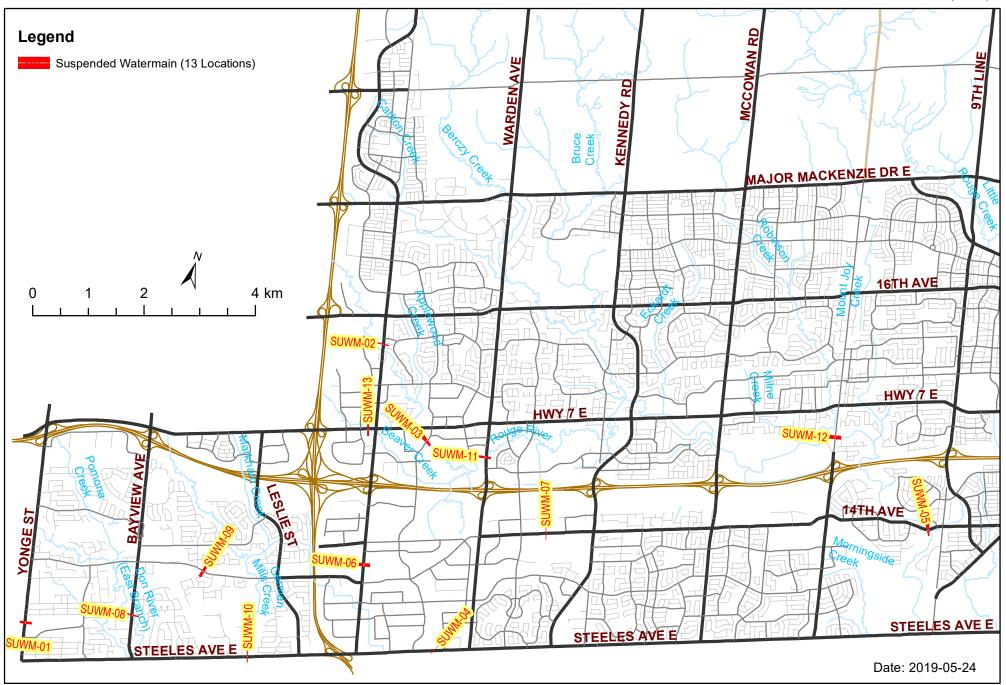
Project	Sanitary Sewers – Rehabilitation
2020 Capital Request	\$910,600
<b>Funding Source</b>	Waterworks Reserves
Description of Program	Program to rehabilitate the main sewer, service laterals using structural liner including repairs to manholes identified through CCTV inspection.
Project Rationale	Timely rehabilitation of sewer pipes will extend the service life of the sanitary sewer system and reduce maintenance cost / liabilities
Legislative Requirement	None
History	Annually \$0.9M - \$1M budget spent (based on past 3 years actuals)
Future Phases	Varies – Based on the outcome of the CCTV inspection results.
Total Project Cost (incl. all phases)	25 Years Life Cycle Cost \$44.1M
Related Projects	Sanitary Sewer and Laterals CCTV inspection
Related Maps	-
Alignment to the Strategic Plan	<ul> <li>Safe and Sustainable Community</li> <li>Effective maintenance of sanitary sewer system reduces service interruptions, sewer backups into homes and supports City's vision for a sustainable community</li> </ul>



	Page 919 <b>62</b>	37
Number:	20262	

Project Name: Creamanda	d Watarmaina	Candition Insp	aatian		Project Cos	st: \$52,	900
Project Name: Suspende		Condition Insp	ection		J	Repair/Replac	e
Commission: Community				Ţ	Jseful Life: (	) Pre Ap	proval:
Department: ES - Water				Category:	Minor	1	•
Project Mgr: Jawaid Kha			Cc		Internal peer r	eview	
	2 3 4 4				Condition asse		
5 🗆	6 7 8		requiremen	it varidation.	Condition usse		
DETAILED DESCRIPTION		<u> </u>					
Hire a consultant to inspect (	City-wide suspende	ed watermains alor	g the bridges to	o identify sect	ions for rehabili	tation works.	
BUILDING MARKHAM'	C FUTURE TOC	ETHED. Safe &	& Sustainable Co	mmunity			
DUILDING WAKKHAWI	S FUTURE TOG	EIHER: Saic C	e Sustamable Co	Пппатту			
PROJECT COSTS (\$)	<u>2020</u>	Future Phases	NOTES This is a ne	w program co	mmencing from	2020. The pro	noram is to
Cost/Quote:	0	0			tion inspection of		
Internal Charges:	0	0			bridge locations	S.	
External Consulting:	52,000	0		equency: Ever	ry 5 years ks will be detern	nined hased or	n results of
Sub Total:	52,000	0	condition in		as will be deteri	inned based of	i iesuits oi
HST Impact:	915	0					
Total Project Cost:	52,900	0					
=							
SOURCE(S) OF FUNDING	<u>; (\$)</u>		Comp	onents			<u>Future</u>
Funding Type	<u>Budget</u>					TOTAL	<u>Phases</u>
Vaterworks	52,900	0	0	0	0	0	1
TOTAL FUNDING	52,900				- -	0	
	Pe	rsonnel Non P	ersonnel I	Pevennes	Expenditures	/(Revenues)	
OPERATING BUDGET I	MPACT Pe			Revenues	Expenditures \$0		
	MPACT		ersonnel F	Revenues \$0	Expenditures \$0		
	MPACT				\$0	)	
DCA/LIFE CYCLE DETA	MPACT	\$0		\$0 Amount in	\$0 Life Cy	vcle	
DCA/LIFE CYCLE DETA DCA	MPACT	\$0	\$0	\$0 Amount in	Life Cy  — Amount	r <mark>cle</mark> in Study:	
	MPACT	\$0	\$0	\$0 Amount in	Life Cy  Amount  Amount	r <mark>cle</mark> in Study:	2020

# **Location Map:** MARKHAM Suspended Watermains - Condition Inspection





Page 923 638

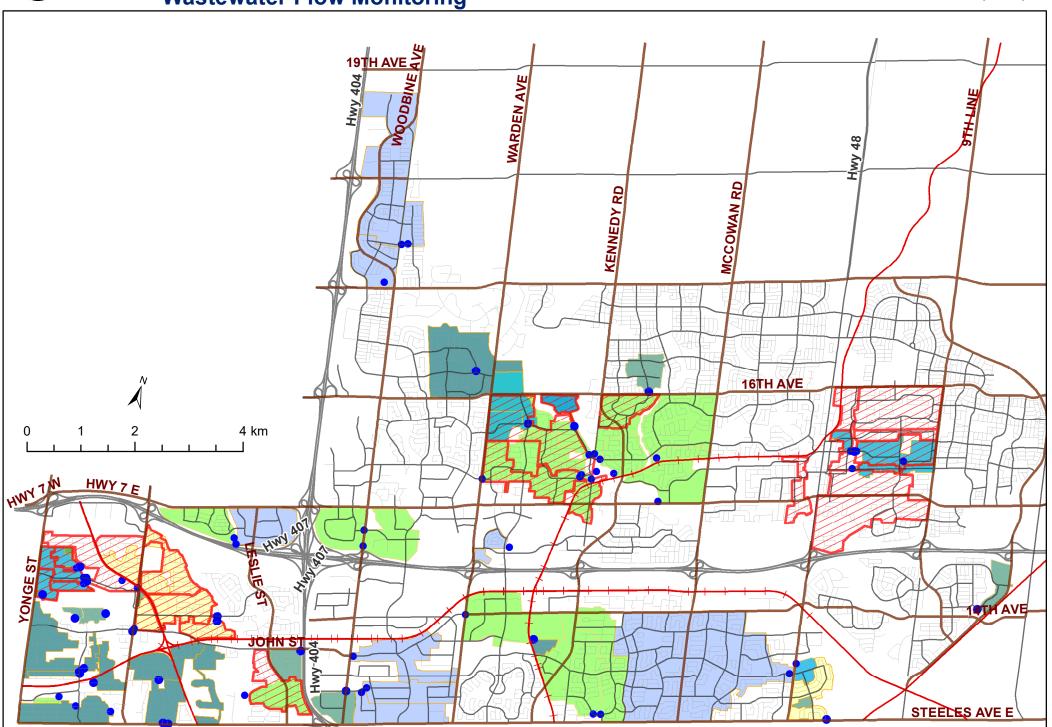
2020 PROJECT FUNDING REQUEST FORM 20263 **Number: Project Cost:** \$213,700

				<del></del>		Studies/Pilot F	rograms
Commission: Community				Ţ	Useful Life:		proval:
Department: ES - Water	works			Category:		0	F
Project Mgr: Lijing Xu			(	Cost Validation:		rde	
Ward(s): $CW \boxed{\bullet} 1$	2 3 4 4			ent Validation:			
5 🗆	□ 6□ 7□ 8□		Requirein	ent vandation.	Other(speci	ily ili Notes)	
DETAILED DESCRIPTION	ON (SCOPE OF	PROJECT):					
Hire a Consultant to update Model is updated to reflect higher accuracy model, wholection system during both BUILDING MARKHAM	the up-to-date syst hich is needed to a th dry weather flow	em network and syssess the impact of w and extreme rain	stem performa both new dev	ance with longer elopment and thons.	r flow monite	oring data. This v	vill produce
PROJECT COSTS (\$)	2020	Future Phases	NOTES				
Cost/Quote:	0	0				nodel every 5 yea bration/validatio	
Internal Charges:	0	0		1		nodel update and	
External Consulting:	210,000	0	was comp	leted in 2014 /	2015. Over th	he past 5 years, se	ome new
Sub Total:	210,000	0				n areas and the Re toring and rain d	
HST Impact:	3,696	0	collection	in Markham.		_	
Total Project Cost:	213,700	0	Unit cost	is consistent wi	th recent awa	rd plus inflation.	
·•	213,700						
OURCE(S) OF FUNDING	<u>G (\$)</u>		Con	ponents			Future
unding Type	Budget	<u>i</u>				TOTAL	Phases
aterworks	213,700	213,700	0	0	(	213,700	
	213,700					213,700	(
TOTAL FUNDING	213,700						
	P	ersonnel Non P	Personnel	Revenues	Expenditu	res/(Revenues)	
	P		Personnel \$0	Revenues \$0	Expenditu	res/(Revenues)	
OPERATING BUDGET I	IMPACT P				Expenditu		
OPERATING BUDGET I	IMPACT P	\$0	\$0	\$0 Amount in			
DPERATING BUDGET I	IMPACT P	\$0		\$0 Amount in	<u>Life</u>	\$0 Cycle	
DPERATING BUDGET I DCA/LIFE CYCLE DETA DCA	IMPACT P	\$0	\$0	\$0 Amount in	<u>Life</u> — Amou	\$0  Cycle  unt in Study:	
DPERATING BUDGET I DCA/LIFE CYCLE DETA DCA	IMPACT P	\$0	\$0	\$0 Amount in	Life — Amou Amou	\$0  Cycle  Int in Study:  Int Incl HST	
DPERATING BUDGET I DCA/LIFE CYCLE DETA DCA	IMPACT P	\$0 Y	\$0 ear Amour	\$0  Amount in Study	Life — Amou Amou	\$0  Cycle  unt in Study:	



Page 925 **6 33**Number: 20264

roject Name: Woctowo					Project (		Ψ132	,600
- vastewa	iter Flow Monito	oring - Annual P	rogram			Studie	s/Pilot P	rograms
Commission: Communit	y & Fire Services			ī	Jseful Life:	0		proval:
Department: ES - Water	rworks			Category:		U	тте жр	provan. —
Project Mgr: <u>Lijing Xu</u>				ost Validation:		da		
Ward(s): CW ☐ 1	2 3 4 4						·20)	
5 🗆	□ 6□ 7□ 8□		Requireme	ent Validation:	Other(speci	Ty III NOU	es)	
ETAILED DESCRIPTION	ON (SCOPE OF F	PROJECT):						
nis program is to hire a Co								on and
medial works to reduce the oprox. 15 locations will be								tewater
llection system from rain						110 11 1110		
JILDING MARKHAM	'S FUTURE TOG	ETHER: Safe &	z Sustainable C	Community				
	4040		NOTES					
ROJECT COSTS (\$)	<u>2020</u>	Future Phases	This is an	annual program				
Cost/Quote:	0	0		s and report ger the degree of in				
Internal Charges:	0	0		r system floodi				
External Consulting:	150,000	0		expires in 2023)				
Sub Total:	150,000	0						
HST Impact:	2,640	0						
Total Project Cost:	152,600							
OURCE(S) OF FUNDIN	(G (\$)		Com	ponents				E-4
	<u>Budget</u>					<u>T(</u>	<u>)TAL</u>	Future Phases
nding Type								
	152,600	0	0	0	(	)	0	
terworks	152,600 152,600	0	0	0	(	) 	<u>0</u>	
nding Type  uterworks  FOTAL FUNDING	152,600						0	
terworks	152,600	ersonnel Non Po	ersonnel	Revenues	Expenditu	res/(Rev	0	
terworks FOTAL FUNDING PERATING BUDGET		ersonnel Non Po					0	
terworks  FOTAL FUNDING  PERATING BUDGET  CA/LIFE CYCLE DETA  DCA		ersonnel Non Po \$0	ersonnel \$0	Revenues \$0 Amount in	Expenditu	res/(Rev	0	
TOTAL FUNDING  PERATING BUDGET  CA/LIFE CYCLE DETA		ersonnel Non Po	ersonnel \$0	Revenues \$0	Expenditu <u>Life</u>	res/(Reve	enues)	
TOTAL FUNDING  PERATING BUDGET  CA/LIFE CYCLE DETA  DCA		ersonnel Non Po \$0	ersonnel \$0	Revenues \$0 Amount in	Expenditu  Life  Amou	res/(Reve \$0 Cycle unt in Stu-	enues)	
TOTAL FUNDING  PERATING BUDGET  CA/LIFE CYCLE DETA  DCA		ersonnel Non Po \$0	ersonnel \$0	Revenues \$0 Amount in	Expenditu  Life  Amou	res/(Reve \$0 Cycle	enues)  dy:	





Page 929 6 287 20266 **Number:** 

**Project Cost:** 

ram. Total inve 30 water meters I) and perform uracy per AWW n Metering Pracostantial backlo	entory: 82,529 s (3,800 residerandom testivo C700 (Rectices, 2015 bg and water massessment)	e Approval:   Description:  De
ram. Total inversions and performation per AWW in Metering Pracostantial backlos	entory: 82,529 s (3,800 residerandom testivo C700 (Rectices, 2015 bg and water massessment)	9. This request is lential, 25 multing of approx. 5% commendation by Region of neters are in a
ram. Total inversions and performation per AWW in Metering Pracostantial backlos	entory: 82,529 s (3,800 residerandom testivo C700 (Rectices, 2015 bg and water massessment)	9. This request is lential, 25 multing of approx. 5% commendation by Region of neters are in a
ram. Total investance of the second and perform and perform and perform of the second and performance of the second and performance of the second and perform of the second and performance of the second and performance of the second and performance of the second and performance of the second and performance of the second and performance of the second and performance of the second and performance of the second and performance of the second and performance of the second and performance of the second and performance of the second and performance of the second and performance of the second and performance of the second and performance of the second and performance	entory: 82,529 s (3,800 residerandom testivo C700 (Rectices, 2015 bg and water n	9. This request is lential, 25 multiung of approx. 5% commendation by Region of neters are in a
ram. Total investations of the condition	entory: 82,529 s (3,800 residerandom testivo C700 (Rectices, 2015 bg and water n	9. This request is lential, 25 multiung of approx. 5% commendation by Region of neters are in a
ram. Total inve 30 water meters I) and perform aracy per AWW n Metering Pracostantial backlo	entory: 82,529 s (3,800 resid a random testi VA C700 (Rec ctices, 2015 b g and water n	9. This request is lential, 25 multiung of approx. 5% commendation by Region of neters are in a
ram. Total inve 30 water meters I) and perform uracy per AWW n Metering Pracostantial backlo	entory: 82,529 s (3,800 resid n random testi VA C700 (Rec ctices, 2015 b g and water n	9. This request is lential, 25 multiung of approx. 5% commendation by Region of neters are in a
ram. Total inve 30 water meters I) and perform uracy per AWW n Metering Pracostantial backlo	entory: 82,529 s (3,800 resid n random testi VA C700 (Rec ctices, 2015 b g and water n	9. This request is lential, 25 multiung of approx. 5% commendation by Region of neters are in a
30 water meters I) and perform aracy per AWW n Metering Prace ostantial backlo	s (3,800 resident random testion VA C700 (Reductices, 2015 by g and water n	lential, 25 multi ling of approx. 5% commendation by Region of neters are in a
30 water meters I) and perform aracy per AWW n Metering Prace ostantial backlo	s (3,800 resident random testion VA C700 (Reductices, 2015 by g and water n	lential, 25 multi ling of approx. 5% commendation by Region of neters are in a
30 water meters I) and perform aracy per AWW n Metering Prace ostantial backlo	s (3,800 resident random testion VA C700 (Reductices, 2015 by g and water n	lential, 25 multi ling of approx. 5% commendation by Region of neters are in a
racy per AWW n Metering Prac estantial backlo	VA C700 (Red ctices, 2015 b g and water n	commendation by Region of meters are in a
n Metering Pracestantial backlo	ctices, 2015 b g and water n	by Region of neters are in a
stantial backlo	g and water n	neters are in a
		<u>Future</u>
	TOTA	
0	0	0 0
		0 0
Expenditu	ıres/(Revenu	ies)
2		
	ΨΟ	
in Life	- Cvcle	
,		
	•	
Amo	unt Incl HST	
Year	in the study	
t	t <b>in <u>Life</u></b> y  Amo	Expenditures/(Revenu \$0 t in <u>Life Cycle</u>

Project	Water Meters Replacement Program								
2020 Capital Request	\$996,700								
<b>Funding Source</b>	Waterworks Reserves								
	Replacement of Residential, Multi Residential and Industrial/ Commercial/ Institutional (ICI) water meters that have reached the service life (20 years). This is an annual program.  This request is to replace approx. 3,930 water meters and perform random testing of approx. 5% of new meters for accuracy per AWWA C700 (Recommendation #1 for Improvement on Metering Practices, 2015 by Region of York).								
Description of Program	Type of Water Meter	Total Inventory	2020 Program						
		(as of Jan 2019)							
	Residential	79,924	3,800 (4.8%)						
	Multi Residential	453	25 (5.5%)						
	Industrial/ Commercial/ Institutional (ICI)	2,152	105 (4.9%)						
	Total	82,529	3,930 (15.2%)						
Project Rationale	To replace the water meters that have re replaced may result in non-revenue wat consumption.								
Legislative Requirement	Yes – Drinking Water Quality Manager	nent System (DW	VQMS)						
History	Average 15% of water meters are replace	ced annually							
<b>Future Phases</b>	Approx. 4000 water meters will be insp	ected annually							
Total Project Cost (incl. all phases)	Varies								
<b>Related Projects</b>	None								
Related Maps	-								
Alignment to the Strategic Plan	<ul> <li>Safe and Sustainable Community</li> <li>Timely replacement of water meters due to high water consumption</li> </ul>	will reduce non	- revenue water lo	oss and customer complaints					



Page 933 **62** 

2020 PROJECT FUNDING REQUEST FOR	г	02	+
2020 I ROJECI FUNDING REQUESI FORM	Number:	20267	1
	~ .		

Project Name: Waterwor	rks Equipment				Project C	ost: \$73,	,200
						New Asset/Ex	pansion
Commission: Community				Ţ	Jseful Life:	10 Pre Ap	proval: $\Box$
Department: ES - Watery				Category:	Minor	•	•
Project Mgr: Mario Puop			Cos		Third party	estimate	
Ward(s): $CW \boxed{\bullet} 1 \square$	2 3 4 4				Multiple(spe		
5 🗆	6□ 7□ 8□		Requiremen	t varidation.	Truttipie(spe	eny)	
DETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):					
This request is to purchase variety of the purchase va							ction. This
BUILDING MARKHAM'S	S FUTURE TOG	ETHER: Safe	& Sustainable Co	nmunity			
PROJECT COSTS (\$)	2020	Future Phases	NOTES				
	· <del></del>				e various new		
Cost/Quote:	71,900	0			el analyzer (\$4 detection De		(C) Cu
Internal Charges:	0	0	, ,	Machine (\$25		νιευς (Φ1211)	(0) 04
External Consulting:	0	0		it Shoring Kit			
Sub Total:	71,900	0		Saver (\$12K		ils on each equi	nmont E3
HST Impact:	1,265	0				get (annualized	•
Total Project Cost:	73,200	0			new purchase		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
OURCE(S) OF FUNDING	<u>; (\$)</u>		Comp	onents			
unding Type	Budget	Analyzer & Radio Devices	Cut & Groove Machine	Pit Shoring	Kit <u>Hy</u> drai	nt SaverTOTAL	Future Phases
Vaterworks	73,200	17,200	25,450	18,350	12,200	73,200	
TOTAL FUNDING	73,200					73,200	
	Per	rsonnel Non F	Personnel R	evenues	Expenditur	es/(Revenues)	
OPERATING BUDGET IN	<u>MPACT</u>		4,000	\$0	•	4,000	
OCA/LIFE CYCLE DETA	ILS				·	,	
<u>DCA</u>				Amount in	Life (	Cvcle	
Name		Y	ear Amount	Study		_	
<del></del>						nt in Study:	
					Amour	t Incl HST	
					Year i	n the study	
DCA and/or Life Cycle:	Explain if there is	a change in the y	ear and/or cost:				
•							



Page 935 **623** 

Number:	20268

Project Name: Games A. Gamidal Garden		<b>Project Cost:</b>		\$2,685,300
Project Name: Corporate Capital Contingency			New	Asset/Expansion
Commission: Corporate Wide  Department: Corporate Wide	τ	Useful Life:	0	Pre Approval: 🗹
Project Mgr:	Category:			
Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □	Cost Validation:			
5□ 6□ 7□ 8□	Requirement Validation:			
DETAILED DESCRIPTION (SCOPE OF PROJECT):				
Total amount of contingency for 2020 applicable capital projects.				

#### **BUILDING MARKHAM'S FUTURE TOGETHER:**

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	2,685,300	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	2,685,300	0
HST Impact:	0	0
Total Project Cost:	2,685,300	0

#### **NOTES**

Other Internal funding breakdown:

\$51,600 Gas Tax, \$45,800 Non-DC Growth, \$37,415 Section 37, \$19,300 Waterworks reserve, \$28,480 Building reserve, \$7,120

Development fee reserve

Other External funding breakdown:

\$127,570 Parks Cash-in-lieu, \$45,900 funded from Pan Am building construction projects, \$13,700 Region of York

SOURCE(S) OF FUNDING		<u>Future</u>					
Funding Type	<u>Budget</u>					TOTAL	Phases
	0	0	0	0	0	0	0
DCA	1,831,960	0	0	0	0	0	0
Non-DC Growth	21,630	0	0	0	0	0	0
Operating Funded Life Cycle	425,365	0	0	0	0	0	0
Other External	187,170	0	0	0	0	0	0
Other Internal	189,715	0	0	0	0	0	0
Tax	29,460	0	0	0	0	0	0
TOTAL FUNDING	2,685,300				=	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OT EXCENT TO DED GET EVERTE	\$0	\$0	\$0	\$0	



Appendix 2Page 937645

Number: 20007

Project Name: The	cates Countyard Parlacement (Unne	n & Lowen	Project (	Cost:	\$223,900	
	eatre-Courtyard Replacement (Uppe	Lower)		Repa	ir/Replace	
	velopment Services	1	Useful Life:	25	Pre Approval:	
Department: The	eatre		3.6 :		11	
Project Mgr: And	drew Rosenfarb	Category:	Major			
Ward(s): cw	<b>✓</b> 1□ 2□ 3□ 4□	Cost Validation:	Third party	estimat	e	
Ward(b). CW		Requirement Validation:	Condition a	ssessme	ent	

#### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

Remove interlock brick from the theatre's main entrance and 2 courtyards located in between the Theatre and Unionville High School and replace with concrete. Existing interlock was installed during theatre construction in 1985.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

<u>2020</u>	<b>Future Phases</b>
200,000	0
0	0
20,000	0
220,000	0
3,872	0
223,900	0
	200,000 0 20,000 220,000 3,872

#### NOTES

This project aims to make the courtyard areas on City owned property more usable & attractive for events and most importantly to fix issues such as unlevelled ground, water drainage issues, missing stones and open ground where trees have been removed. Work would take place in the summer months to have minimal impact on programs. Amount requested is consistent with the 2019 Life Cycle reserve study update.

SOURCE(S) OF FUNDING	(\$)		Compone	ents			E-4
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	223,900	0	0	0	0	0	0
TOTAL FUNDING	223,900					0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>			Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	1,100,900
				Amount Incl HST	223,900
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

2019 life cycle includes HVAC Quantity Survey (\$10k), Theatrical Lighting Fixture Replacement (\$195k), Building Maint. (\$42k), Dressing Room Refurbishment (\$291k), Courtyard Replacement (\$224k), Parking Lot Swing Gates (\$15k), Stage Equipment & Maint. (\$20k). Amount available in 2020 life cycle is \$1,101k. Amount requested is \$797k. Difference is primarily due to the deferral of the auditorium interior painting & LED house light conversion (\$251k) and other components based on assessment.



Page 939 6287 20008

**Number:** 

					Project (	Cost:	\$290	,700
Project Name: Theatre-Dre		Refurbishment				Repair	r/Replace	<b>.</b>
Commission: Development S	Services			U	seful Life:	10	Pre Apr	oroval: 🗹
Department: Theatre				Category:		10	1101191	710 van.
Project Mgr: Andrew Roser	nfarb		Can					
Ward(s): $CW \boxed{\bullet} 1 \square 2$	□ 3□ 4□			t Validation:				
5 6	□ 7□ 8□		Requiremen	t Validation:	Condition a	ssessmer	11	
DETAILED DESCRIPTION	(SCOPE OF P	ROJECT):						
Redesign & refurbishment of 6 fixtures, toilets, partitions, mirro	ors, chairs, cost	ume racks, painting	and replaceme	ent of incande	scent lighting			lumbing
BUILDING MARKHAM'S F	FUTURE TOG	ETHER: Excepti	onal Services by	y Exceptional P	eople			
PROJECT COSTS (\$)	2020	Future Phases	NOTES	1 1 12	.1		1 .	
Cost/Quote:	245,700	0		shed over 12 y ir age and sev				
Internal Charges:	0	0	Dressing roo	oms are used b	y both our p	rofessio	nal artists	s from
External Consulting:	40,000	0		vorld and men				
Sub Total:	285,700	0		ne of the only Markham. Th				
HST Impact:	5,028	0	spaces to be	tter serve our	clients and c	ommuni	ty. Amo	unt
Total Project Cost:	290,700	0	consistent w	ith the 2019 1	ife cycle rese	erve stud	y update.	•
SOURCE(S) OF FUNDING (	<u></u>		Comp	onents				<u>Future</u>
	<b>Budget</b>					<u>T(</u>	<u>OTAL</u>	Phases
Funding Type								
Funding Type Operating Funded Life Cycle	290,700	0	0	0	(	)	0	0
		0	0	0	(	)	0	
Operating Funded Life Cycle  TOTAL FUNDING	290,700 290,700	0 rsonnel Non Pe		0 evenues			0	
Operating Funded Life Cycle	290,700 290,700		rsonnel R	-	Expenditu		0	
Operating Funded Life Cycle  TOTAL FUNDING	290,700  290,700  PACT  Pe	rsonnel Non Pe	rsonnel R	evenues		res/(Rev	0	
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET IME	290,700  290,700  PACT  Pe	rsonnel Non Pe	rsonnel R	evenues	Expenditu	res/(Rev	0	
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET IMP  DCA/LIFE CYCLE DETAIL	290,700  290,700  PACT  Pe	rsonnel Non Pe	rsonnel R	evenues \$0	Expenditu	res/(Rev \$0 <u>Cycle</u>	enues)	0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET IMP  DCA/LIFE CYCLE DETAIL  DCA	290,700  290,700  PACT  Pe	rsonnel Non Pe \$0 \$	rsonnel R	evenues \$0 Amount in	Expenditus  Life  Amou	res/(Rev \$0 Cycle  nt in Stu	enues)	,100,900
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET IMP  DCA/LIFE CYCLE DETAIL  DCA	290,700  290,700  PACT  Pe	rsonnel Non Pe \$0 \$	rsonnel R	evenues \$0 Amount in	Expenditus  Life  Amou	res/(Rev \$0 Cycle nt in Stu	enues)  dy: 1	,100,900 290,700
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET IMP  DCA/LIFE CYCLE DETAIL  DCA  Name	290,700  290,700  PACT  Pe	rsonnel Non Pe \$0 \$ Yea	rsonnel R 0 nr Amount	evenues \$0 Amount in	Expenditus  Life  Amou	res/(Rev \$0 Cycle  nt in Stu	enues)  dy: 1	,100,900
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET IMP  DCA/LIFE CYCLE DETAIL  DCA	290,700  290,700  PACT  Performance of the second s	rsonnel Non Pe \$0 \$  Yea  s a change in the yea	rsonnel R 0  nr Amount  nr and/or cost:	evenues \$0 Amount in Study	<b>Life</b> Amou  Amou  Year	res/(Rev \$0 Cycle Int in Stu Int Incl H in the stu	enues)  dy: 1.	,100,900 290,700 2020



Page 941 **6 49**Number: 20009

Du'an Nama Tilana William			Project (	Cost:	\$10,200
Project Name: Theatre-HVAC Qua  Commission: Development Services  Department: Theatre  Project Mgr: Jason Vasilaki & Andre  Ward(s): CW ✓ 1 □ 2 □ 3 □  5 □ 6 □ 7 □	ew Rosenfarb  4  R	Category: Cost Validation:	Third party	30 estimat	
DETAILED DESCRIPTION (SCOPE Quantity surveyor consultation for the re		/AC system scheduled for	or 2021.		
BUILDING MARKHAM'S FUTURE	TOGETHER: Safe & Susi	ainable Community			

PROJECT COSTS (\$)	<u>2020</u>	Future Phases
Cost/Quote:	0	1,500,000
Internal Charges:	0	0
External Consulting:	10,000	0
Sub Total:	10,000	1,500,000
HST Impact:	176	26,400
Total Project Cost:	10,200	1,526,400

#### NOTES

Recommendation from sustainability & asset management department to engage a professional cost estimation consultant for the HVAC replacement project. The 2021 construction project (current estimate included as future phases) will be adjusted based on the consultant's recommendation.

SOURCE(S) OF FUNDING (\$)			Compon	ents			E-4
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	10,200	0	0	0	0	0	1,526,400
TOTAL FUNDING	10,200				=	0	1,526,400

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

#### **DCA/LIFE CYCLE DETAILS**

<u>DCA</u>	<b>T</b> 7		Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	1,100,900
				Amount Incl HST	10,200
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

2019 life cycle includes HVAC Quantity Survey (\$10k), Theatrical Lighting Fixture Replacement (\$195k), Building Maint. (\$42k), Dressing Room Refurbishment (\$291k), Courtyard Replacement (\$224k), Parking Lot Swing Gates (\$15k), Stage Equipment & Maint. (\$20k). Amount available in 2020 life cycle is \$1,101k. Amount requested is \$797k. Difference is primarily due to the deferral of the auditorium interior painting & LED house light conversion (\$251k) and other components based on assessment.



Page 943 **65** 

Number: 20053

Project Name	E Tielzeting and Doyment System Dietfem	n Donlooomont	Project Cost:	\$750,200
roject rvanie.	E-Ticketing and Payment System Platform	п керіасешені	Repa	ir/Replace
Commission:  Department:	Corporate Services	Ţ	Jseful Life: 10	Pre Approval:
•	Michael Killingsworth	Category:		
Ward(s):	CW ♥ 1 2 3 4 4 5 6 7 8 8	Cost Validation: Requirement Validation:	Other(specify in No Other(specify in No	· · · · · · · · · · · · · · · · · · ·

#### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

In 2015, the City implemented an Administrative Monetary Penalty System (AMPs) for by-law prosecutions. The current e-ticketing and payment system platform is used to produce penalty notices, notice letters, schedule screenings and hearings and to process AMPs fines that have gone into default to Ministry of Transportation license plate denial. The current e-ticketing, online and phone payment system (ParkSmart) is over 10 years old and at end of life. The City was recently notified by ParkSmart that it will no longer be supporting this platform as of July 2019. It is currently used only for parking violations, which generates approximately \$3M annually in parking violation revenues for the City; however, to scale up to full implementation of AMPs, the City requires updating of the current system to accommodate prosecution of all regulatory by-laws. Municipalities have had provincial court time reduced in the past two years. Markham is down to 6 days/yr of court time. A new e-ticket platform will allow the City to issue all notices, collect fine revenue and will permit online screening which is a significant customer service improvement. A new system will also provide improved analytics and data collection to optimize current resources. Not replacing the current system will create the risk of a complete program shut-down. All electronic processes currently facilitated through the platform will have to revert back to manual methods, including the issuance of penalty notices. This method will require significant additional human resources to manually input and track approximately 4000 penalty notices per month and facilitate all of the required administrative tasks associated with the prosecution of offences.

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

**Exceptional Services by Exceptional People** 

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	565,000	0
Internal Charges:	175,300	0
External Consulting:	0	0
Sub Total:	740,300	0
HST Impact:	9,944	0
Total Project Cost:	750,200	0

#### **NOTES**

The cost validation for this project is based on a business proposal and quote received from a potential vendor for initial start up and \$75,000 annually thereafter for maintenance fees for software, hosting and consumables. \$175,300 has been added for 1 contract resource for 1.5 years for project management.

SOURCE(S) OF FUNDING	<u>(\$)</u>		Compone	ents			Eutuma
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	750,200	0	0	0	0	0	
TOTAL FUNDING	750,200				=	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OI DINTING BODGET IMITACT	\$0	\$75,000	\$0	\$75,000	

DCA/LIFE CYCLE DETAILS

| DCA | Year | Amount in Study | Amount in Study | Amount in Study | Amount Incl HST | Year in the study | DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 945 6 8 2

2020 DDO IECT EUNDING DEGUEST EODM	F	- 1.80 × 10 <b>0</b> 3	JJ
2020 PROJECT FUNDING REQUEST FORM	Number:	20060	
n.	• 40 4	4400 000	

_				Project (	Cost:	\$183	,200
Project Name: Enterprise	e Scheduling Sof	ftware Solutio	n		New	Asset/Ex	pansion
Commission: Corporate S	Services			Useful Life:	5		proval: 🗹
Department: <u>ITS</u>			Categor	ry: Major	3	r re r rp	provur.
Project Mgr: Ned Sirry				•	4 4		
Ward(s): $CW \boxed{\bullet} 1$	2 🗆 3 🗆 4 🗆			on: Third party			
5 🗆	6□ 7□ 8□		Requirement Validation	n: Other(speci	Ty in No	otes)	
ETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):					
nd weekly, bi-weekly, mont taffing resources across the and planned intergration into	thly schedules for C City. This would b existing HRIS sys sources. This would	Citywide uses. It e an enterprise s tems (ADP). The d increase custon	and efficient approach to mai would ensure appropriate co- olution with provisions to n is project supports the City' mer satisfaction, operational wardship of Money & Resource	overage and sup neet requirements strategy under excellence, and	port the	e allocation l BU's that	on of at require it
ROJECT COSTS (\$)	2020	Future Phases	NOTES				
Cost/Quote:	180,000	O Tuture I mases	Several BU's have made for their individual are				
Internal Charges:	0	0	solutions, make suppor				
External Consulting:	0	0	points. An Enterprise	solution consoli	idates th	ne point s	olutions int
_			a corporate standard en Markham, a single sup				
Sub Total:	180,000 3,168	$\frac{0}{0}$	HRIS systems. ADP co				
HST Impact: _ Total Project Cost:			(160K software + 20K				
=	183,200	0					
OURCE(S) OF FUNDING	<u>; (\$)</u>		Components				Enture
unding Type	<u>Budget</u>				<u>T</u>	OTAL	<u>Future</u> <u>Phases</u>
perating Funded Life Cycle	183,200	0	0	) (	)	0	(
TOTAL FUNDING	183,200					0	0
PERATING BUDGET I	MPACT Per	sonnel Non	Personnel Revenues	Expenditu	res/(Rev	venues)	
		\$0 \$	15,000 \$0	\$1	5,000		
<u>CA/LIFE CYCLE DETA</u> <u>DCA</u>	ILS		Amount	in Life	<u>Cycle</u>		
Name		7	Year Amount Study	·	•	. —	
					ınt in Stı		
					nt Incl I		
				Year	in the st	tudy	
DCA and/or Life Cycle:	Explain if there is	a change in the	year and/or cost:				



Page 947**657** 

**Number:** 20079

Project Name: Dealise - I	-4 I tab4 Damba			Project (	Cost:	\$490,60	0
Project Name: Parking L		ement			Repair/	Replace	
Commission: Corporate S	ervices			Useful Life:	25	Pre Approv	⁄al: ✓
Department: Asset Mana			Category:	Maior		11	
Project Mgr: Khwaja Wa	ker				or rouiou		
Ward(s): $CW \boxed{\bullet} 1 \square$	2□ 3□ 4□		Cost Validation				
5 🗆	6□ 7□ 8□		Requirement Validation:	Condition a	issessment		
DETAILED DESCRIPTIO	N (SCOPE OF PI	ROJECT):					
This work allows for replace. Poles for replacement are ide illumination standards for saf replaced through this prograr BUILDING MARKHAM'S	entified through and fety and liability. Pon.	other program (Par oles and fixtures a	king Lot light Inspection) th	nat occurs eve	ery 5 years	to meet	
DUILDING WARRITAWI	STOTORE TOGI	ETHER. Sevan	usinp of Money & Resources				
PROJECT COSTS (\$)	<u>2020</u>	Future Phases	NOTES \$480,400 Citywide parki	ing lot light m	alas fintus	and and	
Cost/Quote:	472,100	0	underground cable replace				987)
Internal Charges:	10,200	0	\$10,200 Internal Charge	back			
External Consulting:	0	0	Amount requested is con	sistent with 2	019 Life C	Cycle Rese	rve
Sub Total:			Study.				
HST Impact:	482,300 8,309	$\frac{0}{0}$					
Total Project Cost:	<del></del>						
	490,600	0					
SOURCE(S) OF FUNDING	<del>G (\$)</del>		Components				4
Funding Type	<u>Budget</u>	Parking lot light replacement	Internal Chargeback		<u>TO'</u>		<u>uture</u> <u>Phases</u>
Operating Funded Life Cycle	490,600	480,400	10,200 0		0 490,	600	0
TOTAL FUNDING	490,600	,	,		490	600	0
	· · · · · · · · · · · · · · · · · · ·						
OPERATING BUDGET IN	Per Per	sonnel Non Po	ersonnel Revenues	Expenditu	res/(Reve	nues)	
OPERATING BUDGET IN	<u>MPACI</u>	\$0	\$0 \$0		\$0		
DCA/LIFE CYCLE DETA	ILS		·		· ·		
<u>DCA</u>			Amount in	Life	Cycle		
Name		Ye			ınt in Stud	y: 1,903	3,300
				Amou	int Incl HS	T 490	0,600
					in the stud		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
DGA 1/ Life G 1	E 1: :64 :		1/	1 Cai	III the stuc	ıy	
DCA and/or Life Cycle:	-						
	Audit \$144K, Bld		ecurity \$701.7K, Parking Loc K, Accessibility \$137.7K, D				



Page 949 of 988

**Number: 20117** 

\$248,900

**Project Cost:** 

Project Name: Co	ornell C (	Parking Car	age Rehabilitati	on Phase 1 o	f 2	· ·	Ψ <b>-</b> · ·	3,200
			age Kenabintati	on i nasc i o			New Asset/E	xpansion
Commission: Co	-				U	seful Life:	25 Pre A <sub>1</sub>	pproval: 🗹
Department: Re					Category:		- ,	. 1
Project Mgr: Bo				Cos	et Validation:		er review	
Ward(s): CW	1 1 2	2 □ 3 □ 4 □			t Validation:			
	5 🗸 (	6 7 8 8		requiremen	-	Condition t		
DETAILED DESC								
This multiyear projecto determine the bestlevel of the Cornell result of water pene	st solution t C.C. Parki etration.	to address the issung Garage. Phase	ue which could incle 2 will be construct	ude the design	for a single s ll include rem	torey roof s	tructure above tl	ne current P3
PROJECT COSTS	S (\$)	2020	Future Phases	NOTES				
			2,054,000				Cornell C.C. has	
Cost/Q		20,000					siting the commed significant learning the significant learning to the significant learning the	
Internal Cha External Consu	•	25,000 200,000	205,400 0	existing join	ts in its precas	t concrete p	oanels and the ga	rage also ha
	_	·					ng at the P3 leve	
	Total:	245,000	2,259,400				nd construction.  In the property of the construction of the construction.	
HST Im <b>Total Project</b>		3,872	36,150	two (Constru	action) will be	completed	in 2021. Cost es	timates are
Total I Toject	Cosi. =	248,900	2,295,600	preliminary	and may chang	ge. Future p	hase under 2021	.•
SOURCE(S) OF F	UNDING	(\$)		Comp	onents			<u>Future</u>
Funding Type		<u>Budget</u>	Consulting	Chargeback	Permit Fe	<u>es</u> <u>Pe</u>	rmit Fees TOTAL	Phases
Гах		248,900	203,520	25,028	20,352	(	248,900	2,295,600
TOTAL FUNDIN	NG	248,900					248,900	2,295,600
OPERATING BU	DCЕТ IM	PACT Per	sonnel Non Pe	rsonnel R	evenues	Expenditu	res/(Revenues)	
OF EKATING BU	DGET IM	<u>raci</u>	\$0 \$	0	\$0		\$0	
DCA/LIFE CYCL	E DETAII	<u>LS</u>						
<u>DCA</u>					Amount in	<u>Life</u>	Cycle	
Name			Yes	ar Amount	Study	- Amou	ınt in Study:	
							int Incl HST	
							in the study	
DCA 1/ 1:	·	3 1 : : : : : : :	1 ' .1	1/		1 cui	in the study	
DCA and/or Li	ife Cycle: E	Explain if there is	a change in the year	ar and/or cost:				



Page 951 **659** 

2020 PROJECT FUNDING REQUEST FORM 20127 **Number:** 

Due is at Nouse. II		D 6 . 1 .			Project	Cost:	\$18,	,100
Project Name: Heintzma	n House Floor	Refinishi	ng			Repai	ir/Replac	e
Commission: Community	& Fire Services				Useful Life:	12		proval:
Department: Recreation	Services			Category		12	тте жр	provan. —
Project Mgr: Martin Barr	row							
Ward(s): $CW \square 1$	2 🗆 3 🗆 4 🗀			Cost Validation			t	
5 🗆	6 7 8			Requirement Validation	. Condition a	1886881116	111	
ETAILED DESCRIPTION	N (SCOPE OF	PROJECT	·:					
his project is to sand and re								
nd floor, and Grooms Room tractive to customers, staff								ice
UILDING MARKHAM'	S FUTURE TO	GETHER:	Safe &	Sustainable Community				
ROJECT COSTS (\$)	2020	Future	Phases	NOTES				
Cost/Quote:	17,800		0	The existing wood floor the Heintzman house. To				
Internal Charges:	0		0	recent staff award plus i				
External Consulting:	0		0					
Sub Total:	17,800		0					
HST Impact:	313		0					
Total Project Cost:	18,100	-	0					
=								
OURCE(S) OF FUNDING	<u> </u>			Components				<u>Future</u>
anding Type	Budge	<u>t</u>				<u>T</u>	<u>OTAL</u>	Phases
perating Funded Life Cycle	18,100		0	0 0		0	0	
TOTAL FUNDING	18,100						0	
	MDA CET	Personnel	Non Per	rsonnel Revenues	Expenditu	res/(Rev	venues)	
PERATING BUDGET I	MPACI	\$0	\$0	0 \$0		\$0		
CA/LIFE CYCLE DETA	ILS							
<u>DCA</u>				Amount in	n <u>Life</u>	<u>Cycle</u>		
Name			Yea	ar Amount Study	— Amo	unt in Stu	udy:	58,800
						ant Incl F		18,100
						in the st		2020
DCA and/or Life Cycle	Evaloia if there	is a abanga	in the wee	er and/or agets	1 001	111 0110 50		
	•				\$10.01 IZ'1.	(1	ΦΩ 11	
Life Cycle includes: Boi	ier \$24k, Firepia	ce \$7.8K (re	aucea iro	m \$8k), Floor refinishing	\$19.9K, Kitch	en Stove	\$8.1K	



Page 953 **66** 

Number:	20139
---------	-------

NT			Project C	Jost:	\$597,100
	Milliken Mills C.C. Lobby Enhancemen	<u> </u>		Repai	r/Replace
	Community & Fire Services  Recreation Services	U	Jseful Life:	15	Pre Approval:
•	Ryan Hanna	Category:			
Ward(s):	CW □ 1□ 2□ 3□ 4□ 5□ 6□ 7□ 8♥	Cost Validation: Requirement Validation:			

#### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

This project is to add accessibility improvements and enhanced features and amenities to the main lobby and library areas at Milliken Mills C.C.. All features and amenities in the main lobby and library entrance area are original and were installed in 1989. The facility is outdated and its features and amenities need to be redesigned and replaced. Staff have experienced numerous issues with replacing and repairing parts and components (IE: Tiles), many of which are no longer in production. This project will also add additional accessibility improvements to support community needs.

BUILDING MARKHAM'S FUTURE TOGETHER:

Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	586,746	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	586,746	0
HST Impact:	10,327	0
Total Project Cost:	597,100	0

#### NOTES

To update the main lobby area, this project includes the redesign of the main lobby area, replace existing quarry tile, paint main lobby, replace library entrance with accessible doors and update existing washrooms. These features and amenities were installed in 1989. A condition assessment on these items in the lobby and library area indicate replacement is warranted. The amount requested was validated by an internal peer review conducted by Asset Management.

SOURCE(S) OF FUNDING (S	<u> </u>	Components						
Funding Type	<u>Budget</u>	Quarry tile	Consulting	<u>Permits</u>		TOTAL	<u>Future</u> <u>Phases</u>	
Gas Tax	526,600	0	0	0	0	0	0	
Operating Funded Life Cycle	70,500	48,500	12,000	10,000	0	70,500	0	
TOTAL FUNDING	597,100				<u>-</u>	70,500		

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OTEMATING BEDGET NAME TO	\$0	\$0	\$0	\$0	

#### DCA/LIFE CYCLE DETAILS

<u>DCA</u>	<b>V</b>	A 4	Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	1,483,700
				Amount Incl HST	70,500
				Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

Life Cycle includes: Scoreboard \$15.4k, Floor Machine \$22.5k, Heat Exchanger \$14.8k, Bleacher Heaters \$24.4k, Arena Foundation \$901.9k, Arena Board \$223.9k, Arena Paint \$8k, Furnace \$103.8k, Bleachers Seating \$29.2k, Flooring \$119.7k, Mixing Values \$4k (deferred), Filter Pump \$3k (deferred), Life Safety Monitor \$5k (deferred), Kitchen Equipment \$8k (deferred)



Page 955 **663** 

**Number: 20158** 

Declared Manager Declared	T. 1.4. B					Project (	Cost:	\$250	,600
Project Name: Recreation		ect Replac	ement				Repa	air/Replac	e
Commission: Communit	y & Fire Services				Ţ	Jseful Life:	10	Pre Ap	proval: 🗹
Department: Recreation					Category:		10	<b>-</b> F	F
Project Mgr: Ryan Hann	na			C	ost Validation:		octimo	nto	
Ward(s): $CW \square 1 \square$	2 □ 3 □ 4 ✔				nt Validation:				
5 🗷	6 ✓ 7 □ 8 □			Requireme	iit vanuation.	Collultion	188688111	ient	
ETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):							
his project is to replace lighange rooms at Centennial						change room	at Corr	nell C.C,	the pool
J									
BUILDING MARKHAM	'S FUTURE TOG	ETHER:	Safe & S	Sustainable Co	ommunity				
PROJECT COSTS (\$)	2020	Future Pl	nases	NOTES					
Cost/Quote:	246,300		0		n assessment o E3: This repla				
_					es: Tills repla ernell \$14,322				
Internal Charges: External Consulting:	0		$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$	for a total of	of \$52,926. In	2020, annual	saving	gs will be :	Centennial
					ngus Glen \$ 16				
Sub Total:	246,300	-	0		ayback for Ceres. The cost is				
HST Impact: Total Project Cost:	4,335		0	inflation.					r
Total Project Cost.	250,600								
OURCE(S) OF FUNDIN	<u>G (\$)</u>			Comp	onents				<u>Future</u>
unding Type	<b>Budget</b>	!	Cornell	Centennia	l Angus C	Glen Ping	le House	<u> TOTAL</u>	Phases
perating Funded Life Cycle	250,600	47,5	90	15,000	151,200	36,810	) 2	250,600	0
TOTAL FUNDING	250,600							250,600	0
	Pe Pe	rsonnel	Non Per	sonnel ]	Revenues	Expenditu	res/(Re	evenues)	
OPERATING BUDGET	IMPACT	\$0	-\$33,6	523	\$0	-\$	33,623		
CA/LIFE CYCLE DETA	AILS								
<u>DCA</u>					Amount in	<u>Life</u>	Cycle		
Name			Year	r Amount	Study	Amoi	ınt in S	tudy.	2,470,400
							nt Incl	• =	250,600
						Year	in the	study	2020
DCA and/or Life Cycle	-								
Life Cycle Statement: C	Cornell \$47,590, Ce	ntennial \$15	,000, An	gus Glen \$1	51,200, Pingle	e House \$36,	810.		



Page 957

Number:

		Project Cost:	\$2,796,600
Project Name: Library Collections		Repa	air/Replace
Commission: Community & Fire Services	-	Useful Life: 7	Pre Approval:
Department: Markham Public Library Project Mgr: Catherine Biss	Category:		Tie rippiovai.
Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □	Cost Validation	: Recent awards	
5 6 7 8	Requirement Validation:	Condition assessm	ent
ETAILED DESCRIPTION (SCOPE OF PROJECT).			

### **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

Collections are the Library's main product and are used heavily by the public, which expects currency. This requires ongoing acquisition of new materials, including those in print and non-print formats and non-English language materials, which are in high demand in Markham. In a 2016 survey of 1,400 residents, 97% indicated that it was important that MPL provides books and valued borrowing materials as the #1 Library service.

**BUILDING MARKHAM'S FUTURE TOGETHER:** 

Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	2,748,208	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	2,748,208	0
HST Impact:	48,368	0
Total Project Cost:	2,796,600	0

#### NOTES

Preliminary allocations (includes processing) as follows: Books & Subscriptions \$970K / Audio-visual \$365K / French \$25K / Multilingual \$300K / Microfilms \$3.6K / Periodicals \$100K / Electronic Resources \$760K / Processing Supplies \$230K. (Figures subject to revision based on material availability, customer needs and final Library review.) 25% of funding (excl. processing costs) devoted to non-English materials (i.e. Multilingual, French). Cost for replacement of existing E-Resources (when invoiced in USD) based on exchange rate of 1.35.

SOURCE(S) OF FUNDING (\$)		Components					
Funding Type	<u>Budget</u>	Collection				TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	2,796,600	2,796,600	0	0	0	2,796,600	0
TOTAL FUNDING	2,796,600					2,796,600	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

#### DCA/LIFE CYCLE DETAILS

<u>DCA</u>	Voor Amo	Amount in	<u>Life Cycle</u>	
Name	Year Amou	ınt Study	Amount in Study:	2,753,400
			Amount Incl HST	2,796,600
			Year in the study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

The life cyle amount is based on the latest Library collections contract and is consistent with the 2019 Life Cycle Reserve Study; USD exchanged rate updated from 1.30 to 1.35 based on June 2019 forecast.



Project Name: Block Pruning Initiative - Year 1 of 3

# 2020 PROJECT FUNDING REQUEST FORM

Page 959**667** 

\$1,017,600

lumber:	20197

**Project Cost:** 

	<b>g</b>			Repair	r/Replac	e
Commission: Communit			Ţ	Jseful Life: 0	Pre Ap	proval: 🗸
Department: Operations			Category:		r.	-
Project Mgr: Miles Pear			• •	Third party estimate	<u> </u>	
.,	2 3 4 4		Requirement Validation:			
	6 7 8		1			
year capital project to pru urrently are over 2,700 per	ne City trees proacti	· · · · · · · · · · · · · · · · · · ·	m damage resistance and re	duce residents compl	aints wh	ich
BUILDING MARKHAM	'S FUTURE TOGI	ETHER: Safe &	Sustainable Community			
PROJECT COSTS (\$)	2020	Future Phases	NOTES	1 100 000		
Cost/Quote:	1,000,000	2,000,000	The City owns approxima will address proactive stre			
Internal Charges:	0	0	through contracted service	es. Once the 70,000 to	trees hav	re been
External Consulting:	0	0	pruned the remaining 30, regular operating budget,			
Sub Total:	1,000,000	2,000,000	\$150,000 starting 2023. (			
HST Impact:	17,600	35,200	state of good repair & bac	cklog led to this proac	ctive app	roach to
Total Project Cost:	1,017,600	2,035,200	updating the asset.			
OURCE(S) OF FUNDIN	<u>G (\$)</u>		Components			<b>Future</b>
unding Type	Budget			<u>T(</u>	<u>OTAL</u>	<u>Phases</u>
ax	1,017,600	0	0 0	0	0	2,035,200
TOTAL FUNDING	1,017,600				0	2,035,200
OPERATING BUDGET	IMPACT Per	rsonnel Non Pe	rsonnel Revenues	Expenditures/(Rev	renues)	
FERALING BUDGEL	IMFACI	\$0 \$150	,000 \$0	\$150,000		
CA/LIFE CYCLE DETA	AILS					
<u>DCA</u>		<b>\$</b> 7	Amount in	Life Cycle		
Name		Yea	ar Amount Study	— Amount in Stu	ıdy:	
				Amount Incl H	IST	
				Year in the str	udy	
DCA and/or Life Cycle	e: Explain if there is	a change in the yea	r and/or cost:		-	
Derrand, or Ene eyer	c. Explain if there is	a change in the year	and, or cost.			



Page 961 **669** 

2020 PROJECT FUNDING REQUEST FORM 20209 **Number: Project Cost:** \$139.800

Project Name: P	athways	Resurfacing					<del></del> '	,157,000
_							Repair/Re	eplace
	_	& Fire Services			J	Jseful Life:	15 Pr	e Approval: 🗹
Department: Converse Project Mgr: S					Category:	Minor		
				Cost	Validation:	Recent awa	rds	
Ward(s): CV		2 3 4		Requirement V	alidation:	Visual inspe	ection	
		6 7 8						
		ON (SCOPE OF P		1		1 4	. 1 1 4	C-11 1
		ays at various parks						
		ate environmental of			,see and de			
BUILDING MAI	RKHAM'	S FUTURE TOG	ETHER: Safe &	k Sustainable Comm	nunity			
PROJECT COST	ΓS (\$)	2020	Future Phases	NOTES				
	Quote:	137,400	0	Locations subj 2020 Location				acton Dark and
Internal Cl	_	0	0	Markham Gree			ark, munun	igion Fark and
External Cons	_	0	0		ostantial ba	cklog and the	e pathways a	are in a state of
	_			good repair.	sted is cons	ristent with th	e 2019 I ife	Cycle Reserve
	Total: _	137,400 2,418	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	Study update.	sted is cons	istent with th	10 2017 Eme	Cycle Reserve
Total Project		139,800						
	=	139,000						
OURCE(S) OF I	FUNDING	<u>G (\$)</u>		Compon	ents			— Future
	FUNDING	G (\$)  Budget		Compon	ents		TOT	Future AL Phases
OURCE(S) OF I			0	Compon	ents 0	(		
unding Type	ife Cycle	Budget	0			(		AL Phases
unding Type  perating Funded Li  TOTAL FUND	ife Cycle	139,800 139,800		0		Expenditu		AL         Phases           0         0           0         0
unding Type perating Funded Li	ife Cycle	139,800 139,800	rsonnel Non P	0 ersonnel Rev	0			AL         Phases           0         0           0         0
unding Type  perating Funded Li  TOTAL FUND	ife Cycle  ING  UDGET I	139,800 139,800 Per	rsonnel Non P	0 ersonnel Rev	0 enues		res/(Revenu	AL         Phases           0         0           0         0
perating Funded Li TOTAL FUND  DPERATING BI  DCA/LIFE CYCL  DCA	ife Cycle  ING  UDGET I	139,800 139,800 Per	rsonnel Non P	ersonnel Rev \$0	0 enues \$0	Expenditu	res/(Revenu	AL         Phases           0         0           0         0
Tunding Type  Typerating Funded Li  TOTAL FUND  DPERATING BU  DCA/LIFE CYC	ife Cycle  ING  UDGET I	139,800 139,800 Per	rsonnel Non P	0 ersonnel Rev \$0	0 enues \$0	Expenditure Life	res/(Revenu	AL Phases  0 0  0 0  nes)
perating Funded Li TOTAL FUND  DPERATING BI  DCA/LIFE CYCL DCA	ife Cycle  ING  UDGET I	139,800 139,800 Per	rsonnel Non P	ersonnel Rev \$0	0 enues \$0	Expenditure  Life  Amou	res/(Revenu \$0 Cycle	AL Phases  0 0  0 0  139,800
perating Funded Li TOTAL FUND  DPERATING BI  DCA/LIFE CYCL  DCA	ife Cycle  ING  UDGET I	139,800 139,800 Per	rsonnel Non P	ersonnel Rev \$0	0 enues \$0	Expenditure  Life  Amou	res/(Revenu \$0 Cycle nt in Study:	AL Phases  0 0  0 0  139,800  139,800
unding Type  perating Funded Li  TOTAL FUND  DPERATING BU  DCA/LIFE CYC  DCA  Name	ife Cycle  ING  UDGET I  LE DETA	Budget     139,800       139,800	rsonnel Non P	ersonnel Rev \$0 :	0 enues \$0	Expenditure  Life  Amou	res/(Revenu \$0 Cycle  nt in Study:	AL Phases  0 0  0 0  139,800  139,800
unding Type  perating Funded Li  TOTAL FUND  DPERATING BU  DCA/LIFE CYC  DCA  Name	ife Cycle  ING  UDGET I  LE DETA	139,800 139,800 Per	rsonnel Non P	ersonnel Rev \$0 :	0 enues \$0	Expenditure  Life  Amou	res/(Revenu \$0 Cycle nt in Study:	AL Phases  0 0  0 0  139,800  139,800
unding Type  perating Funded Li  TOTAL FUND  DPERATING BU  DCA/LIFE CYC  DCA  Name	ife Cycle  ING  UDGET I  LE DETA	Budget     139,800       139,800	rsonnel Non P	ersonnel Rev \$0 :	0 enues \$0	Expenditure  Life  Amou	res/(Revenu \$0 Cycle nt in Study:	AL Phases  0 0  0 0  139,800  139,800
perating Funded Li TOTAL FUND DPERATING BU DCA/LIFE CYCL DCA Name	ife Cycle  ING  UDGET I  LE DETA	Budget     139,800       139,800	rsonnel Non P	ersonnel Rev \$0 :	0 enues \$0	Expenditure  Life  Amou	res/(Revenu \$0 Cycle nt in Study:	AL Phases  0 0  0 0  139,800  139,800
perating Funded Li TOTAL FUND DPERATING BU DCA/LIFE CYCL DCA Name	ife Cycle  ING  UDGET I  LE DETA	Budget     139,800       139,800	rsonnel Non P	ersonnel Rev \$0 :	0 enues \$0	Expenditure  Life  Amou	res/(Revenu \$0 Cycle nt in Study:	AL Phases  0 0  0 0  139,800  139,800



Page 963

Number: 20210 **Project Cost:** \$841,900 Project Name: Playstructure Replacement Repair/Replace Commission: Community & Fire Services Pre Approval: Useful Life: 17 Department: Operations - Parks Category: Minor Project Mgr: Scott Grieve Cost Validation: Recent awards CW ✓ 1 □ 2 □ 3 □ 4 □ Ward(s): Requirement Validation: Condition assessment 5 6 7 8 **DETAILED DESCRIPTION (SCOPE OF PROJECT):** Replacement of playground equipment, as required, to maintain the current standards (CSA - Canadian Standards Association CAN/CSA-Z614-07. Children's Playspaces and Equipment"). There are 15 locations to be replaced in 2020 (see attached schedule). Safe & Sustainable Community **BUILDING MARKHAM'S FUTURE TOGETHER: NOTES PROJECT COSTS (\$)** 2020 **Future Phases** Locations are subject to change based on condition assessment. Cost/Quote: 827,300 0 Funding amount changes every year based on life cycle replacement of specific playstructures. Funding may be reallocated **Internal Charges:** 0 0 within the components of the project. **External Consulting:** 0 0 There is no substantial backlog upon completion of the 2020 project. Assets are in a state of good repair. Sub Total: 827,300 0 Milliken Mills playground structure will be accelerated to 2021 to 0 **HST Impact:** 14,560 coincide with the Milliken Mills rubberized surface which has been **Total Project Cost:** 841,900 0 deferred to 2021 from 2020. Amount requested is consistent with the 2010 Life Cycle Pasarya

SOURCE(S) OF FUNDING (\$) Components							TF 4
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	841,900	0	0	0	0	0	0
TOTAL FUNDING	841,900					0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$0	\$0	

## DCA/LIFE CYCLE DETAILS **DCA** Amount in Life Cycle Year Name **Amount** Study Amount in Study: 841,900 Amount Incl HST 841,900 Year in the study 2020 DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 965 673

THE STATE OF THE S					111		•	
				_	Project (	Cost:	\$330	,400
Project Name: German N	Aills Meadow E	nvironmental N	Monitoring	Program		Rena	air/Replac	e.
Commission: Community	& Fire Services			ī	Jseful Life:		-	proval:
Department: Operations	- Utility Inspection	ı & Survey				0	Pie Ap	provar:
Project Mgr: Robert Mar	inzel			Category:				
Ward(s): $CW \square 1$	2 🗆 3 🗆 4 🗆			Cost Validation:				
5 🗌	6 7 8		Requiren	nent Validation:	Legislative	compli	ance	
ETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):						
vistems to ensure that appropriate to monitor for 3 years of the second state of the s	ears (2020-2023) t an Mills Creek is n	o ensure methane not adversely affect	gas concentra	ations are below schate.				
PROJECT COSTS (\$)	2020	Future Phases	NOTES					
			This proj	ect is required e				
Cost/Quote:	0	0	consisten	t with the 2019 l	Life Cycle Re	eserve \	Study upd	ate.
Internal Charges: External Consulting:	0	0						
_	324,700							
Sub Total:	324,700	0						
HST Impact: Total Project Cost:	5,715							
	330,400							
OURCE(S) OF FUNDING	<u>G (\$)</u>		Cor	nponents				Entuno
unding Type	<u>Budget</u>					]	<u> </u>	Future Phases
perating Funded Life Cycle	330,400	0	0	0	(	)	0	
TOTAL FUNDING	330,400						0	
OPERATING BUDGET I	MPACT Per		Personnel	Revenues	Expenditu		evenues)	
	пс	\$0	\$0	\$0		\$0		
OCA/LIFE CYCLE DETA DCA	<u>ILS</u>			A 4 *	T *A	C- 1		
<u>DCA</u> Name		Y	ear Amou	Amount in nt Study	<u>Life</u>	<u>Cycle</u>		
141110				Study	— Amou	int in S	tudy:	330,400
					Amou	nt Incl	HST	330,400
					Year	in the s	study	2020

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



Page 967**675** 

20239 **Number:** 

**Project Cost:** 

Project Name: Streetlig	ht Poles & Cable	Ranlacament (V	Jarlay Villa	(na)	Project C	ost: \$2	,190,800
		, Replacement (	aricy villa	<u>.gc)</u>		Repair/Rep	place
Commission: Communit				Ţ	Jseful Life:	60 Pre	Approval:
Department: ES - Infras				Category:	Major		
Project Mgr: Prathapan			C	ost Validation:	Recent awar	ds	
	2 3 4 4			ent Validation:			
	□ 6□ 7□ 8□		-				<del></del> -
DETAILED DESCRIPTION Replacement of aged under ttached map). BUILDING MARKHAM	ground streetlight c	ables and non-stand	dard galvaniz	-	poles in Varley	y Village Ar	ea (refer to
			_ Nome	•			
PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>	NOTES This proje	ect includes ren	lacement of ag	red undergro	ound streetlight
Cost/Quote:	1,790,957	0					t poles (approx.
Internal Charges:	0	0		oles based on c			•
External Consulting:	362,000	0		is consistent wi equested is cons			
Sub Total:	2,152,957	0	Study Upo	late.		•	
HST Impact:	37,892	0	Energy sa	vings due to LE	ED fixtures is S	\$7,260/year.	
<b>Total Project Cost:</b>	2,190,800	0					
OURCE(S) OF FUNDIN	G (\$)		Com	ponents			
unding Type	Budget	$\underline{Design + CA}$	Constructi			TOTA	<u>Future</u> L Phases
perating Funded Life Cycle	2,190,800	368,371	1,822,429	0	0	2,190,80	0 0
						2,190,80	
TOTAL FUNDING	2,190,800					2,170,00	<u>U</u>
TOTAL FUNDING						2,170,00	
	Pe		ersonnel	Revenues	Expenditur	es/(Revenue	
OPERATING BUDGET	IMPACT Pe		ersonnel 7,260	Revenues \$0	-		_ ====
OPERATING BUDGET	IMPACT Pe			\$0	-\$7	es/(Revenue	
DPERATING BUDGET DECA/LIFE CYCLE DETA  DCA	IMPACT Pe	\$0 -\$7	,260	\$0 Amount in	-	es/(Revenue	
OPERATING BUDGET	IMPACT Pe		,260	\$0 Amount in	-\$7	es/(Revenue	
DPERATING BUDGET DECA/LIFE CYCLE DETA  DCA	IMPACT Pe	\$0 -\$7	,260	\$0 Amount in	-\$7  Life (	es/(Revenue 7,260 Cycle	es)
DPERATING BUDGET DECA/LIFE CYCLE DETA  DCA	IMPACT Pe	\$0 -\$7	,260	\$0 Amount in	-\$7  Life (  Amoun	es/(Revenue 7,260 Cycle at in Study:	es) 2,190,900
DPERATING BUDGET DETAIL DETAIL DETAIL DETAIL NAME	IMPACT Pe	\$0 -\$7	,260 ear Amour	\$0  Amount in Study	-\$7  Life (  Amoun	es/(Revenue 7,260 Cycle nt in Study:	2,190,900 2,190,900
DPERATING BUDGET  DCA/LIFE CYCLE DETA  DCA  Name  DCA and/or Life Cycle	IMPACT  AILS  e: Explain if there i	\$0 -\$7 Ye	,260 ear Amour	\$0  Amount in Study  t:	-\$7  Life (  — Amour  Amoun  Year i	es/(Revenue 7,260 Cycle at in Study: at Incl HST in the study	2,190,900 2,190,900 2026
DPERATING BUDGET DETAIL DETAIL DETAIL DETAIL NAME	IMPACT  AILS  e: Explain if there is and cables were original cables.	\$0 -\$7  Yes s a change in the yes ginally scheduled for	ar Amour	Amount in Study  t:	Life ( — Amoun Amoun Year i	es/(Revenue 7,260 Cycle at in Study: at Incl HST in the study	2,190,900 2,190,900 2026
DPERATING BUDGET  DCA/LIFE CYCLE DETA  DCA  Name  DCA and/or Life Cycle  These streelight poles a	IMPACT  AILS  e: Explain if there is and cables were original cables.	\$0 -\$7  Yes s a change in the yes ginally scheduled for	ar Amour	Amount in Study  t:	Life ( — Amoun Amoun Year i	es/(Revenue 7,260 Cycle at in Study: at Incl HST in the study	2,190,900 2,190,900 2026
DPERATING BUDGET OF THE PROPERTY OF THE PROPER	IMPACT  AILS  e: Explain if there is and cables were original cables.	\$0 -\$7  Yes s a change in the yes ginally scheduled for	ar Amour	Amount in Study  t:	Life ( — Amoun Amoun Year i	es/(Revenue 7,260 Cycle at in Study: at Incl HST in the study	2,190,900 2,190,900 2026
DERATING BUDGET  DCA/LIFE CYCLE DETA  DCA  Name  DCA and/or Life Cycle  These streelight poles a	IMPACT  AILS  e: Explain if there is and cables were original cables.	\$0 -\$7  Yes s a change in the yes ginally scheduled for	ar Amour	Amount in Study  t:	Life ( — Amoun Amoun Year i	es/(Revenue 7,260 Cycle at in Study: at Incl HST in the study	2,190,900 2,190,900 2026



Commission: Community & Fire Services

Department: ES - Infrastructure

Project Name: Structures Rehabilitation (5 Structures) - Design & Const.

Page 969 A 7887

Pre Approval:

Repair/Replace

15

AND DECT FUNDING DECUEST FORM				
020 PROJECT FUNDING REQUEST FORM	Number:	20245		
Pro	ject Cost:	\$607,200		

Useful Life:

	ımar		Category:	Major	
Project Mgr: Prathapan Ku			Cost Validation:	Multiple(specify)	
	2 <b>✓</b> 3 <b>✓</b> 4 □ 6 □ 7 □ 8 □		Requirement Validation:		
ETAILED DESCRIPTION		ROIFCT).			
esign and construction for re rook Rd; P012: Markham Ci	chabilitation of 5 sivic Centre 15m Vandale Rd and D	structures (4 pedest. N/Warden Ave; P08 elhi Cres.; C089: B	83: Apple Creek North Park	P005: Pomona Mills Park 95 60m NW/ Hoodview Ct.; P0 8. See attached map for locat	91:
ROJECT COSTS (\$)	2020	Future Phases	NOTES		
Cost/Quote:	446,700	0		abilitation of 5 structures (P0 rations is responsible for prev	
Internal Charges:	0	0		culverts such as minor grading	
External Consulting:	150,000	0		hes and decks, and siltation r	
Sub Total:	596,700	0	inspection/rehabilitation		
HST Impact:	10,502	0	Cost Validation: Recent a	nward and external reviews.	
Total Project Cost:	607,200	0	Amount requested is cons Update.	sistent with 2019 life Cycle re	eserve Study
OURCE(S) OF FUNDING	(\$)		Components		
unding Type	Budget	$\underline{Design + CA}$	Construction	TOTAL	<u>Future</u> <u>Phases</u>
perating Funded Life Cycle	607,200	152,640	454,560 0	0 607,200	0
TOTAL FUNDING	607,200			607,200	0
	Pe	rsonnel Non Pe	ersonnel Revenues	E 11 (/D	
PERATING RUDGET IM	IPACT	isonnei Non i e	ersonnei Revenues	<b>Expenditures/(Revenues)</b>	
PERATING BUDGET IM	IPACT		50 \$0	\$0	
CA/LIFE CYCLE DETAI	IPACT			-	
CA/LIFE CYCLE DETAI DCA	IPACT	\$0 \$	Amount in	-	
CA/LIFE CYCLE DETAI	IPACT		Amount in	\$0	607,200
CA/LIFE CYCLE DETAI DCA	IPACT	\$0 \$	Amount in	\$0  Life Cycle	607,200 607,200
CA/LIFE CYCLE DETAI DCA	IPACT	\$0 \$	Amount in	\$0  Life Cycle  — Amount in Study:	
CA/LIFE CYCLE DETAI DCA Name	LS	\$0 \$ Yes	Amount in Study	\$0  Life Cycle  Amount in Study:  Amount Incl HST	607,200
CA/LIFE CYCLE DETAI DCA	LS	\$0 \$ Yes	Amount in Study	\$0  Life Cycle  Amount in Study:  Amount Incl HST	607,200
OCA/LIFE CYCLE DETAI DCA Name	LS	\$0 \$ Yes	Amount in Study	\$0  Life Cycle  Amount in Study:  Amount Incl HST	607,200
OCA/LIFE CYCLE DETAI DCA Name	LS	\$0 \$ Yes	Amount in Study	\$0  Life Cycle  Amount in Study:  Amount Incl HST	607,200
Name	LS	\$0 \$ Yes	Amount in Study	\$0  Life Cycle  Amount in Study:  Amount Incl HST	607,200
OCA/LIFE CYCLE DETAI DCA Name	LS	\$0 \$ Yes	Amount in Study	\$0  Life Cycle  Amount in Study:  Amount Incl HST	607,200



Page 971 Number: 20252

D. A. W. A.		Project Cost:	\$10,868,900
Project Name: West Thornhill Flood Control Implement	ation - Ph 3A Cons.	Repa	air/Replace
Commission: Community & Fire Services	U	Jseful Life: 100	Pre Approval:
Department: ES - Stormwater	Category:	Maior	
Project Mgr: Jawaid Khan			
Ward(s): $CW \square 1 \checkmark 2 \square 3 \square 4 \square$		External peer revie	
5□ 6□ 7□ 8□	Requirement Validation:	Other(specify in N	otes)
DETAILED DESCRIPTION (SCOPE OF PROJECT):			
o continue with the flood remediation program in the West Thorn	hill area based on Class EA	study recommenda	tions. This budget

#### D

request is for upgrading the storm sewer pipes in Phase 3A area. Program is as follows:

- Est. West Thornhill program cost \$77.9M (as of June 2014)
- Previous budget approved (up to Phase 2D) represents up to \$56.1M which is 72% of the West Thornhill program cost (planned completion by 2025).

Safe & Sustainable Community **BUILDING MARKHAM'S FUTURE TOGETHER:** 

PROJECT COSTS (\$)	<u>2020</u>	<b>Future Phases</b>
Cost/Quote:	10,100,000	7,115,850
Internal Charges:	392,221	1,850,956
External Consulting:	195,497	1,748,400
Sub Total:	10,687,718	10,715,206
HST Impact:	181,201	156,011
Total Project Cost:	10,868,900	10,871,200

### **NOTES**

Req. Validation: Council direction to upgrade the storm sewer system in West Thornhill to 100 year level protection. Internal charges include associated staff recoveries. External charges include contract administration. The City will receive 40% (\$4.19M) through a Federal Grant (see life cycle section for more details). Net cost to the City will be \$6.29M (60%).

Year in the study

SOURCE(S) OF FUNDING	<u>G (\$)</u>		Components				
Funding Type	<b>Budget</b>	<u>CA</u>	Construction	<u>Internal staff</u>		TOTAL	<u>Future</u> <u>Phases</u>
Gas Tax	2,000,000	0	2,000,000	0	0	2,000,000	0
Reserve Fund	8,868,900	198,938	8,277,741	392,221	0	8,868,900	10,871,200
TOTAL FUNDING	10,868,900					10,868,900	10,871,200

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	<b>Expenditures/(Revenues)</b>	
	\$0	\$0	\$0	\$0	

## DCA/LIFE CYCLE DETAILS

<u>DCA</u>	Voor					<u>Life Cycle</u>
Name	Teat	Amount	Study	Amount in Study:		
				Amount Incl HST		

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

\$2M is funded through gas tax and remaining \$8.9M is funded through stormwater fee.

40% of the cost (excluding internal charges) will be reimbursed through Disaster Mitigation and Adaptation Fund (DMAF)

received from the Federal Government (\$48.64M) over 10 years for:

a) West Thornhill Flood Control Implementation – Phases 3 & 4 (Project cost: \$62.5M)

b)Don Mills Channel (Project cost: \$56.0M)

c)Thornhill Community Centre (\$1.1M) and Gynwood Storm Sewer Upgrades (Project cost: \$2.0M)



#### 2020 PROJECT FUNDING REQUEST FORM

Page 973 **68**8

Number:	20256
vuiiibei.	20230

**Project Cost:** \$437,100 Project Name: CI Watermain Rehabilitation - Design Repair/Replace Commission: Community & Fire Services Pre Approval: Useful Life: Department: ES - Waterworks Category: Minor Project Mgr: Jawaid Khan Cost Validation: Recent awards CW □ 1 ✓ 2 □ 3 □ 4 □ Ward(s): Requirement Validation: Condition assessment 5 6 7 8 **DETAILED DESCRIPTION (SCOPE OF PROJECT):** Detailed design for rehabilitation of cast iron (CI) watermain with CIPP (Cured-in-place pipe) liner at various locations (refer to attached map). CIPP relining is considered for this section as John Street is a heavy traffic street and the watermain is located close to the curb line. Safe & Sustainable Community **BUILDING MARKHAM'S FUTURE TOGETHER:** NOTES **PROJECT COSTS (\$)** 2020 **Future Phases** This is an annual program (Phase 3a of 15; ending in 2032). Total Cost/Quote: 0 5,426,800 CI Watermain: 54.1 km. As part of the CI watermain replacement program, 92% of aged CI watermain will be replaced with PVC and **Internal Charges:** 143,000 0 8% will be rehabilitated with CIPP liner. This request is for design **External Consulting:** 0 289,042 of CIPP relining of 4.2 km (8%) of CI watermain. Construction and contract administration costs (Phase 3b) will be Sub Total: 432,042 5,426,800 requested through 2021 capital budget request. **HST Impact:** 5,087 95,512 **Total Project Cost:** 437,100 5,522,300 SOURCE(S) OF FUNDING (\$) **Components Future Funding Type** Design Internal staff **Budget TOTAL Phases** Waterworks 437,100 294,100 143,000 0 0 437,100 5,522,300 TOTAL FUNDING 437,100 437,100 5,522,300 Personnel Non Personnel Revenues Expenditures/(Revenues) **OPERATING BUDGET IMPACT** \$0 \$0 \$0 \$0 DCA/LIFE CYCLE DETAILS **DCA** Amount in **Life Cycle** Year Name **Amount** Study Amount in Study: Amount Incl HST Year in the study DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



## 2020 PROJECT FUNDING REQUEST FORM

Project Name: CI Watermain Replacement-West Thornhill Ph 3A

Page 975 **683** 

1		20250	•
	Number:	20258	

\$5,897,500

**Project Cost:** 

Commission: Community				K	epair/Replace	2
	& Fire Services		1	Useful Life: 90	Pre Apr	oroval: 🔽
Department: ES - Water			Category:			
Project Mgr: Jawaid Kha	n					
Ward(s): $CW \square 1$	2 □ 3 □ 4 🗹		Cost Validation:			
5 🗆	6□ 7□ 8□		Requirement Validation:	Condition asses	sment	
DETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):				
Replacement of cast iron (Cl map). As part of the cast iron will be replaced with the PV BUILDING MARKHAM'	n watermain replace C watermain (1.8 k	ement program, ago m) with a service l	ed cast iron watermains (cur			
PROJECT COSTS (\$)	2020	Future Phases	NOTES			
	· <u></u>		Total CI watermain inver			
Cost/Quote:	5,600,000	0	All CI watermain will be backlog in the watermain			ere is no
Internal Charges:	0	0	backing in the watermain	тергасешеш рго	graiii.	
External Consulting:	195,497	0				
Sub Total:	5,795,497	0				
HST Impact:	102,001	0				
Total Project Cost:	5,897,500	0				
SOURCE(S) OF FUNDING	G (\$)		Components			Entuno
Funding Type	<u>Budget</u>	Construction	<u>CA</u>		<b>TOTAL</b>	<u>Future</u> <u>Phases</u>
Waterworks	5,897,500	5,698,562	198,938 0	0	5,897,500	0
TOTAL FUNDING	5,897,500			=	5,897,500	0
OPERATING BUDGET I	MPACT Per		ersonnel Revenues 50 \$0	Expenditures/0	(Revenues)	
DCA/LIFE CYCLE DETA	ILS					
<u>DCA</u>			Amount in	Life Cvo	ele	
<u>DCA</u>						
Name		Ye	ar Amount Study	A mount is	2 Studen	
		Ye	ar Amount Study	— Amount in	-	
		Ye	ar Amount Study	— Amount in Amount In	-	
		Ye	ar Amount Study		nel HST	
	: Explain if there is			Amount In	nel HST	
Name	: Explain if there is			Amount In	nel HST	



# 2020 PROJECT FUNDING REQUEST FORM

Page 977 **685**Number: 20265

Drainat Nama, W. 4		4 D I	4		Project C	cost:	<b>\$15</b> ,	300
Project Name: Wastewat		uments - Repl	acement			Repa	ir/Replac	e
Commission: Community	& Fire Services			Ţ	Jseful Life:	6	Pre Ap	proval:
Department: ES - Water				Category:		O	11011p	provur.
Project Mgr: Henk Bouh	uyzen			Cost Validation:			•	
Ward(s): $CW \boxed{\bullet} 1 \square$	2 🗆 3 🗆 4 🗆		Daguiro	ment Validation:				
5 🗆	6□ 7□ 8□		Kequire	ment vandation.	Other(specia	ly III INC	oles)	
DETAILED DESCRIPTION To replace 3 of 5 uninterrupt Windows Operating systems producing or supplying any services BUILDING MARKHAM's	ted power supply (I (OS7) at the 5 pur security patches for	UPS) based on comping stations. On the operating sy	S7 will no lo stem.			,		
PROJECT COSTS (\$)	2020	Future Phases	NOTE	<u>S</u>				
Cost/Quote:	15,000	0	The rem	aining 2 UPS do	not require re	placen	nent based	d on
~			conditio	n assessment.				
Internal Charges: External Consulting:	0	0						
_								
Sub Total:	15,000	0						
HST Impact: _ Total Project Cost:	264							
	15,300	0						
SOURCE(S) OF FUNDING	<u> </u>		Co	omponents				Future
Funding Type	<b>Budget</b>	<u>IPCs</u>	UPS	<u>units</u>		<u>T</u>	OTAL	Phases
Waterworks	15,300	9,160	6,140	0	C	1	15,300	
TOTAL FUNDING	15,300						15,300	
OPERATING BUDGET I	MPACT Per	rsonnel Non	Personnel	Revenues	Expenditu	es/(Re	venues)	
OLEKATING BUDGET I	MIACI	\$0	\$0	\$0		\$0		
DCA/LIFE CYCLE DETA	ILS							
<u>DCA</u>		_		Amount in	<u>Life</u>	<u>Cycle</u>		
Name		<u> </u>	Zear Amo	unt Study	— Amou	nt in St	udy:	
						nt Incl l	· -	
						in the s		
DCA 1/ 1/6 C 1	T 1		1/		1 Cai	iii tiic s	tudy	
DCA and/or Life Cycle:	Explain if there is	a change in the y	year and/or c	ost:				

# Project Description					DC -	DC -	Description of Other Funding
		Total	Tax	Life Cycle	Reserve	Developer	Other
rojects Under Consideration							
Development Services							
Economic Development		225 000					207 000 N. D. G. J.
20001 Markham Economic Strategy	=	237,800					237,800 Non DC-Growth
TOTAL	Economic Development	237,800	-	-	=	-	237,800
Culture							
20002 Culture Public Art Master Plan Implementation Phase 1 of 5		249,300	45,000				204,300 Public Art Acq. Res. Fund
	TOTAL Culture	249,300	45,000	-	-	-	204,300
Museum							
20003 Museum - Strickler Barn Phase 2 of 2		83,400		83,400			
20004 Museum - Various Buildings		332,100		332,100			
20005 Museum Maintenance		83,500		83,500			
	TOTAL Museum	499,000	-	499,000	-	-	-
Theodor							
Theatre		42,200		42,200			
20006 Theatre-Building Maintenance		203,900		203,900			Note 1
20007 Theatre-Courtyard Replacement (Upper & Lower)		250,700		250,700			Note 2
20008 Theatre-Dressing Room Refurbishment		15,300		15,300			Note 2
20010 Theatre-Parking Lot Swing Gates 20011 Theatre-Stage Equipment & Maintenance		20,000		20,000			
20011 Theatre-Stage Equipment & Mannehance 20012 Theatre-Theatrical Lighting Fixture Replacement		195,400		195,400			
20012 Theatre-Theatreat Eighting Fixture Replacement	TOTAL Theatre	727,500	-	727,500	-	-	<del>-</del>
Arts Centres							
20013 Exhibition Galleries & Programs Maintenance		41,700		41,700			
20014 McKay Accessibility Consultant	<u> </u>	15,000		15,000			
	TOTAL Arts Centres	56,700	-	56,700	=	-	<del>-</del>
Planning							
20015 Consolidated Zoning By-Law - LPAT Defense and Refinement		521,200					521,200 80 % Build. Fees, 20% Dev. Fees
20016 Consultant Studies		92,000			82,800		9,200 Development Fees
20017 Designated Heritage Property Grant Program		30,000					30,000 Heritage Reserve
20018 Heritage Façade Improvements/Sign Replacement		20,000	20,000				
20019 Housing Summit		20,000			18,000		2,000 Development Fees
20020 Ontario Heritage Conference Host May 2020		20,400	20,400				
20021 Planning & Design Staff Salary Recovery		669,300			669,300		
20022 York Region Employment Survey		39,000			35,100		3,900 Development Fees
•	TOTAL Planning	1,411,900	40,400	-	805,200	-	566,300
Dacian							
Design		8,875,400			7,987,860		887,540 Park Cash-in-Lieu
20024 Box Grove Community Park - Construction		9,329,100			8,396,190		932,910 Park Cash-in-Lieu
20025 Cornell Community Park - Construction		9,329,100			8,396,190		932,910 Park Cash-in-Lieu

# Project Description					DC -	DC -		Description of Other Funding
" Project Description		Total	Tax	Life Cycle	Reserve	Developer	Other	Description of other I unumg
20026 Cornell Parkette - Design & Construction		553,800			498,420		55,380	Park Cash-in-Lieu
20027 Leitchcroft Building - Construction		664,600			598,140		66,460	Park Cash-in-Lieu
20028 Leitchcroft Townhouse Park - Design & Construction		836,800			753,120		83,680	Park Cash-in-Lieu
20029 Wismer McCowan Woodlot Park - Design & Construction		1,269,200			1,142,280		126,920	Park Cash-in-Lieu
20030 York Downs Park - Design & Construction		791,900			712,710		79,190	Park Cash-in-Lieu
	TOTAL Design	22,320,800	-	-	20,088,720	=	2,232,080	=
Engineering								
20031 404 North District Water Supply (PD7) - EA		429,600			429,600			
20032 Active Transportation Awareness Program		86,500			56,225		30.275	Non-DC Growth
20033 Denison Street Extension Environmental Assessment		514,900			514,900			
20034 Downstream Improvements Program (Construction)		1,234,900		432,215	802,685			
2003 Downstream Improvements Program (Design)		319,100		111,685	207,415			
20036 Honda Blvd Extension to 19th Avenue (Design)		401,200			401,200			
20037 Main Street Unionville Road Reconstruction (Design)		496,900					496,900	Non-DC Growth
20038 Markham Centre Trails - Phase 1 (Construction)		965,000			627,250		337,750	Section 37
20039 Markham Centre Trails - Phase 2 (Design)		230,500			149,825		80,675	Section 37
20040 New Traffic Signals - Kirkham/New Delhi (D & C)		344,100			344,100			
20041 Pedestrian Accessibility Improvements Program—Phase 6 of 7		601,200			390,780		210,420	Non-DC Growth
20042 Rouge Valley Trail (Kennedy Road North) – Design		156,600			101,790		54,810	Non- DC Growth
20043 Servicing & Environmental Study- Markville Secondary Plan		443,000			443,000			
20044 Sidewalk Program (Construction)		1,500,000			1,500,000			
20045 Sidewalk Program (Design)		519,500			519,500			
20046 Smart Commute Markham-Richmond Hill		76,300			76,300			
20047 Staff Salary Recovery		713,400			713,400			
20048 Streetlight Program (Construction)		764,800			764,800			
20049 Streetlighting Program (Design)		175,100			175,100			
20050 Traffic Asset Replacement		196,900		196,900				
20051 Traffic Operational Improvements		88,900	88,900					
20052 Transportation Study – Markville Secondary Plan		230,500			230,500			
	TOTAL Engineering	10,488,900	88,900	740,800	8,448,370	-	1,210,830	=
TOTAL I	Development Services	35,991,900	174,300	2,024,000	29,342,290	-	4,451,310	_
<u> </u>			· · · · · · · · · · · · · · · · · · ·					_
orporate Services								
ITS		40.50-	10.665					
20054 Museum Mimsy Upgrade		18,600	18,600					
20055 ITS - Recreation Fitness Training Management Application		10,300	10,300					
20056 ITS - Recreation Facility Tablet Project		30,500	30,500					
20057 Digital Literacy Strategy Implementation - Phase 2 of 2		43,900		43,900				
20058 Library Online Registration & Mobile Printing		25,600	25,600					
20059 ITS-Backflow Prevention Program (Software Enhancements)		26,000						Waterworks Reserve
20061 ITS Life Cycle Asset Replacement	_	3,273,900		2,712,130				\$168.5k WW, \$393.2k Dev. Fee
	TOTAL ITS	3,428,800	85,000	2,756,030	-	-	587,770	

9/25/2019 Page 2 of 10

# Project Description		Takal	T	Life Cont.	DC -	DC -	Description of Other Funding
		Total	Tax	Life Cycle	Reserve	Developer	Other
Finance							
20062 Bill 108 - Community Benefits Charge By-law		129,200			116,280		12,920 Non-DC Growth
20063 Internal Project Management	_	928,800			928,800		
	TOTAL Finance	1,058,000	-	-	1,045,080	-	12,920
Sustainability Office							
20064 Facility Energy Management Program		337,800					337,800 MECO
:	TOTAL Sustainability Office	337,800	-	-	-	-	337,800
Asset Management							
20065 8100 Warden Facility Repair and/or Replacement Projec	ts	337,800		337,800			
20066 Accessibility Retrofit Program		137,700		137,700			
20067 Building Condition Audit - Full Time Staff		144,000		144,000			
20068 Building Envelope/Structural Review		56,100		56,100			
20069 Civic Centre Repair and/or Replacement Projects		345,000		345,000			
20070 Corporate Security Operations & System Replacements		701,700		701,700			
20071 Designated Substances Management		69,400		69,400			
20072 Fire Facilities Repair and/or Replacement Projects		233,200		233,200			
20073 Fire Station Signs - Phase 2 of 2		121,400		121,400			
20074 Library Facilities Repair and/or Replacement Projects		127,700		127,700			
20075 Municipal Building Backflow Prevention Testing		20,400		20,400			
20076 Operations Facilities Repair and/or Replacement Projects	S	764,500		764,500			
20077 Operations Fuel Sites Monitoring		75,200		75,200			
20078 Other Facilities Repair and/or Replacement Projects		211,300		211,300			
20080 PVC Salt Dome Demolition		212,400		212,400			
20081 Recycling Depots Repair and/or Replacement Projects		31,300		31,300			
20082 Roofing Maintenance and Repair		143,400		143,400			
20083 Roofing Replacement Projects		410,700		410,700			
20084 Satellite Community Centre Repair and/or Replacement		143,200		143,200			
20085 Tennis Clubhouse Repair and/or Replacement Projects		38,600		23,780			14,820 Tennis Club
	TOTAL Asset Management	4,325,000	-	4,310,180	-	-	14,820
	TOTAL Corporate Services	9,149,600	85,000	7,066,210	1,045,080	-	953,310
ommunity & Fire Services							<del></del>
Fire & Emergency Services							
20086 Air Cylinders 45+ Minutes Replacement		88,600		88,600			
20087 Bunker Gear Replacement		168,900		168,900			
20088 Defibrillator & Accessories Replacement		75,300		75,300			
20089 Firefighting Tools & Equipment Replacement		100,000		100,000			
20090 Hazardous Materials - Decontamination Tent		20,900		20,900			
20091 Hose Rolling Equipment Replacement		12,300		12,300			
20092 Rapid Intervention Rescue Packs Replacement		8,700		8,700			
20093 Replacement of Equipment due to Staff Retirements		95,300		95,300			
20094 Rescue Equipment - Powered Hydraulics Replacement		93,500		93,500			

9/25/2019 Page 3 of 10

# Project Description				DC -	DC -		Description of Other Funding
<u> </u>	Total	Tax	Life Cycle	Reserve	Developer	Other	
20095 Rescue Equipment - Water Rescue Equipment Replacement	42,600		42,600				
TOTAL Fire & Emergency Services	706,100	-	706,100	-	-	-	_
ecreation Services							
20096 Angus Glen C.C. Arena Condenser Replacement	203,500		203,500				
20097 Angus Glen C.C. Flooring Replacement	75,700		75,700				
20098 Angus Glen C.C. Gym Curtain Replacement	34,600		34,600				
20099 Angus Glen C.C. Lifeguard Chair Replacement	9,300		9,300				
20100 Angus Glen C.C. Rooftop Condenser Replacement	132,300		132,300				
20101 Armadale C.C. Fire Prevention System Replacement	218,500		218,500				
20102 Armadale C.C. Millwork Replacement	132,200		132,200				
20103 Armadale C.C. Rooftop Unit Replacement	136,600		136,600				
20104 Centennial C.C. Gas Monitors Replacement	10,000		10,000				
20105 Centennial C.C. HVAC Replacement	56,000		56,000				
20106 Centennial C.C. Pool Equipment Replacement	21,500		21,500				
20107 Centennial C.C. Saunas Replacement	17,200		17,200				
20108 Centennial C.C. Surge Drum Replacement	37,000		37,000				
20109 Centennial C.C. Washroom Heater Replacement	6,400		6,400				
20110 Clatworthy Arena Brine Pump Replacement	23,400		23,400				
20111 Cornell C.C. Aerial Platform Replacement	19,700		19,700				
20112 Cornell C.C. CO2 Controller Replacement	9,300		9,300				
20113 Cornell C.C. Drinking Fountains Replacement	15,000		15,000				
20114 Cornell C.C. Floor Grates Replacement	8,000		8,000				
20115 Cornell C.C. Glass Grommets Replacement	21,400		21,400				
20116 Cornell C.C. Library Carpet Replacement	34,000		34,000				
20118 Cornell C.C. Power Washer Replacement	8,400		8,400				
20119 Cornell C.C. Pumps Replacement	84,000		84,000				
20120 Cornell C.C. Shower Valves Replacement	17,200		17,200				
20121 Crosby C.C. Garbage Fence Enclosure Replacement	8,000		8,000				
20122 Crosby C.C. Millwork Replacement	47,600		47,600				
20123 Crosby C.C. Pump Replacement	36,600		36,600				
20124 ECO Camp Chimo Equipment Replacement	35,700		35,700				
20124 ECO Camp Chinio Equipment Replacement	24,000		24,000				
20123 Heintzman House Botter Replacement 20126 Heintzman House Fireplace Gas Insert	7,100		7,100				
20128 Heintzman House Stove Replacement	8,100		8,100				
20129 Markham Village C.C. Ceiling Tile Replacement	13,100		13,100				
20130 Markham Village C.C. Gening The Replacement	14,800		14,800				
20131 Markham Village C.C. Shower Tiles Replacement	36,300		36,300				
20131 Markham Village C.C. Snower Thes Replacement  20132 Milliken Mills C.C. Arena Boards and Frame Replacement	203,500		203,500				
20132 Milliken Mills C.C. Arena Boards and Frame Replacement	14,800		14,800				
20134 Milliken Mills C.C. Arena Heat Exchanger Replacement  20134 Milliken Mills C.C. Arena Heater Replacement	24,400		24,400				
•	859,900		859,900				
20135 Milliken Mills C.C. Arena Pad Replacement	15,400		15,400				
20136 Milliken Mills C.C. Arena Scoreboard Replacement	29,200		29,200				
20137 Milliken Mills C.C. Arena Spectator Seating Replacement	95,100		29,200 95,100				
20138 Milliken Mills C.C. Furnace Replacement	93,100		93,100				

9/25/2019 Page 4 of 10

#	Project Description				DC -	DC -	Description of Other Funding
		Total	Tax	Life Cycle	Reserve	Developer	Other
20141	Milliken Mills Soccer Dome Door Replacement	34,100		34,100			
20142	Morgan Pool Equipment Replacement	24,600		24,600			
20143	Morgan Pool Mechanical Replacement	21,800		21,800			
20144	Mt. Joy C.C. Low Emissivity Ceiling Replacement	37,300		37,300			
20145	Mt. Joy C.C. Overhead Doors Replacement	9,800		9,800			
20146	Old Unionville Library Mechanical Replacement	22,400		22,400			
20147	Old Unionville Library Vinyl Tile Replacement	20,400		20,400			
20148	Pan Am Centre Lighting Automation	60,600		60,600			
20149	Pan Am Centre Vestibule	467,300					467,300 From Existing Pan Am Construction
20150	Pan Am Heat Exchanger Reconstruction	28,000		28,000			
20151	Pan Am Pool Equipment Replacement	16,300		16,300			
20152	Recreation AED Program Replacement	18,400		18,400			
20153	Recreation Aquatic Equipment Replacement	85,500		85,500			
20154	Recreation Aquatics Safety Audit	20,400		20,400			
20155	Recreation Autonomous Floor Scrubbers	186,900	93,200	93,700			
20156	Recreation Building Automation System (BAS) Replacement	374,300		374,300			
20157	Recreation Fitness Equipment Replacement	190,300		190,300			
20159	Recreation Painting Projects	134,900		134,900			
20160	Recreation Pool Grouting Replacement	51,900		51,900			
20161	Recreation Program Equipment Replacement	94,400		94,400			
20162	Recreation Rubber Floor Replacement	171,000		171,000			
	Recreation Security System Replacement	457,200		457,200			
	Recreation Sound System Replacement	50,000		50,000			
	Recreation Tables and Chairs Replacement	54,700		54,700			
	Rouge River C.C. Pump and Exhaust Fan Replacement	24,900		24,900			
	Thornhill C.C. Filter Spa Replacement	10,000		10,000			
	Thornhill C.C. Rink Board and Arena Netting Replacement	210,400		210,400			
	Thornlea and Clatworthy Shower Replacement	25,900		25,900			
	Thornlea Pool Deck Drain Piping Replacement	39,700		39,700			
	Unionville Train Station HVAC Replacement	11,000		11,000			
	Unionville Train Station Wood Floor Refurbishment	11,000		11,000			
	Water Street Senior Centre Facility Improvements	16,700		16,700			
	TOTAL Recreation Services	5,929,400	93,200	5,368,900	-	-	467,300
	m Public Library						
20174	Customer Service Improvement (E-Resources)	55,000	55,000				
	Heritage Garbage Enclosure (Unionville Library)	19,300	19,300				
20176	Library Collections	1,198,400		1,198,400			Note 3
20177	Library Furniture, Equipment & Shelving Replacement	143,800		143,800			
20178	Markham Centre Library - Phase 1 of 2	71,200	71.200	1 2 4 2 2 2 2	64,080		7,120 Non-DC Growth
	TOTAL Markham Public Library	1,487,700	74,300	1,342,200	64,080	-	7,120
Operati	ons - Roads						
-	Asphalt Resurfacing	6,873,800					6,873,800 Gas Tax
	Boulevard Repairs	57,300		57,300			
	Bridge Structure Preventative Maintenance - Roads	25,300		25,300			
20181	bridge Structure Freventative Maintenance - Roads	25,500		25,500			

# Project Description				DC -	DC -		Description of Other Funding
	Total	Tax	Life Cycle	Reserve	Developer	Other	
20182 City Owned Entrance Feature Rehabilitation/Replacement	280,800		280,800				
20183 City Owned Fence Replacement Program	128,800		128,800				
20184 Don Mills Storm Channel	15,000		15,000				
20185 Emergency Repairs	174,000		174,000				
20186 Guiderail- Install/Repair/Upgrade	114,800		114,800				
20187 Incremental Growth Related Winter Maintenance Vehicles	450,000			450,000			
20188 Localized Repairs - Curb & Sidewalk	859,200		859,200				
20189 Localized Repairs - Parking Lots	119,200		119,200				
20191 Parking Lots- Rehabilitation	208,600		208,600				
20192 Railway Crossing Rehabilitation -Castlemore	163,600		163,600				
20193 Retaining Wall Repair Program	78,700		78,700				
20194 Storm Water Retention Pond Maintenance Program	51,900		51,900				_
TOTAL Operations - Roads	9,601,000	-	2,277,200	450,000	-	6,873,800	_
Operations - Parks							
20195 Backstop and Outfield Fence Replacement at Armadale Pk	39,300		39,300				
20196 Bleachers (Metal) Replacement - Grandview Bleachers	11,200		11,200				
20198 Boulevard/Park Trees Replacement	352,300		352,300				
20199 Bridge Structure Preventative Maintenance in Parks	25,300		25,300				
20200 Cemetery Fence Repair at Thornhill Cemetery	44,100		44,100				
20201 City Park Furniture / Amenities	171,600		171,600				
20202 Court Resurfacing/Reconstruction/Maintenance	403,400		403,400				
20203 Cricket Pitch Outfield Screening Repl. at Yarl Cedarwood	82,400		82,400				
20204 Decorative Fountain Replacement at Swan Lake Pk	84,300		84,300				
20205 Goal Posts Replacement	20,200		20,200				
20206 Huntington Pk Floodlights, Poles & Cross Arms Replacemt.	176,500		176,500				
20207 Markham Trees for Tomorrow	122,100	122,100					
20208 Parks Interpretative Signage Implementation - Phase 1 of 3	101,800	101,800					
20211 Recycling Containers Replacement (Yr 3 of 10)	16,600		16,600				
20212 Rejuvenation of Community Centres Landscapes-Year 3 of 3	63,700		63,700				
20213 Relamping & Fixtures Refurbishment	27,000		27,000				
20214 Shade Structure Refurbishment	78,500		78,500				
20215 Sportsfield Maintenance & Reconstruction	137,600		137,600				
20216 Stairway Repairs	247,200		247,200				
20217 Tennis Courts Fence Replacement at Armadale Pk	60,600		60,600				
20218 Tomlinson Waterplay Replacement	337,000		337,000				
TOTAL Operations - Parks	2,602,700	223,900	2,378,800	-	-	=	=
		•					
Operations - Fleet							
20219 Corporate Fleet Growth - Non-Fleet	10,200			10,200			
20220 Corporate Fleet Refurbishing	37,800		37,800				
20221 Corporate Fleet Replacement - Fire	918,800		918,800				
20222 Corporate Fleet Replacement - Ice Resurfacing Machine	100,200		100,200				
20223 Corporate Fleet Replacement - Non-Fire	710,500		710,500				
20224 Corporate Fleet Replacement - Waterworks	378,400					378,400	Waterworks
20225 New Fleet - Parks	98,900			98,900			

# Project Description		_		DC -	DC -		Description of Other Funding
	Total	Tax	Life Cycle	Reserve	Developer	Other	
20226 New Fleet - Roads	296,600			296,600			
TOTAL Operations - Fleet	2,551,400	-	1,767,300	405,700	-	378,400	-
Operations - Utility Inspection & Survey							
20227 German Mills Meadow - Equipment Maintenance	110,100		110,100				
20229 Survey Instrument Upgrade/Replacement	18,900		18,900				
20230 Survey Monument Replacement	27,700		27,700				
TOTAL Operations - Utility Inspection & Survey	156,700	-	156,700	-	-	-	=
Operations - Business & Technical Services							
•	438,800			394,920		43 880	Non-DC Growth
20231 Growth Related Parks Improvements	221,600	221,600		334,320		43,000	Non-De Glowin
20232 Public Realm-Markham's Shared Places Our Spaces				204 020		43,880	=
TOTAL Operations - Business & Technical Services	660,400	221,600	-	394,920	-	43,880	
Environmental Services - Infrastructure							
20233 Bridges and Culverts - Condition Inspection	68,800		68,800				
20234 Confined Space Assessment for Culverts	25,900		25,900				
20235 MNRF Monitoring for Capital Projects at Water Crossings	27,000		27,000				
20236 Storm Sewer Pipes - Rehabilitation	645,100		165,735			479,365	Gas Tax
20237 Storm/Sanitary Sewer & Sanitary Laterals CCTV Inspection	1,585,200		228,200			1,357,000	Waterworks Reserve
20238 Stormwater Pumping Stations - Maintenance	106,300		106,300				
20239 Streetlight Poles & Cable Replacement (Varley Village)	1,828,800		1,828,800				Note 4
20240 Streetlights - Miscellaneous Requests	152,600	152,600					
20241 Streetlights - Pole Condition Inspection Program	92,000		92,000				
20242 Streetlights - Poles Replacement Program	124,200		124,200				
20243 Streetlights - Underground Cable Condition Inspection	187,200		187,200				
20244 Structures Program-Full-time Staff	145,500		145,500				
20245 Structures Rehabilitation (5 Structures) - Design & Const.	457,200		457,200				Note 5
20246 Toogood Dam - Structural Inspection	20,100		20,100				_
TOTAL Environmental Services - Infrastructure	5,465,900	152,600	3,476,935	-	-	1,836,365	_
Environmental Services - Stormwater							
20247 German Mills Settlers Park Erosion Protection-Cost Sharing	223,900		223,900				
20248 Oil Grit Separators (OGS) - Inspection and Cleaning	215,400		215,400				
20249 SWM Pond Cleaning - Ponds ID#25 & ID#67	1,094,200					1,094,200	Gas Tax
20250 Water Quality Improvements and Geese Control	27,600		27,600				
20251 Water Quality Monitoring	27,600		27,600				_
TOTAL Environmental Services - Stormwater	1,588,700	-	494,500	-	-	1,094,200	=
Invironmental Services - Waste							
20253 Incremental Growth Related Waste Management Vehicles	100,000			100,000			
TOTAL Environmental Services - Waste	100,000			100,000			=

# Project Description			_		DC -	DC -		Description of Other Funding
		Total	Tax	Life Cycle	Reserve	Developer	Other	
Environmental Services - Waterworks								
20254 Calibration of Water Quality Model		193,400					193,400	Waterworks Reserve
20255 Cathodic Protection of Cast Iron Watermains		378,900					378,900	Waterworks Reserve
20257 CI Watermain Replacement - Construction &	CA	5,729,700					5,729,700	Waterworks Reserve
20259 Curb Box Inspection and Replacement Progra	am	614,100					614,100	Waterworks Reserve
20260 I/I Investigation - Carlton Pump Station Catch	nment Area	101,800					101,800	Waterworks Reserve
20261 Sanitary Sewers - Rehabilitation		910,600					910,600	Waterworks Reserve
20262 Suspended Watermains - Condition Inspection	n	52,900					52,900	Waterworks Reserve
20263 Update of Wastewater System Hydraulic Mod	del	213,700						Waterworks Reserve
20264 Wastewater Flow Monitoring - Annual Progra	am	152,600					,	Waterworks Reserve
20266 Water Meters - Replacement Program		996,700					996,700	Waterworks Reserve
20267 Waterworks Equipment	<u> </u>	73,200						Waterworks Reserve
TOTAL :	Environmental Services - Waterworks	9,417,600	-	-	-	-	9,417,600	•
	<u> </u>							<u>-</u>
	TOTAL Community & Fire Services	40,267,600	765,600	17,968,635	1,414,700	-	20,118,665	
Corporate Wide								
20268 Corporate Capital Contingency		2,591,300	18,460	393,965	1,831,960		346 915	Various Other Ext'l & Int'l, Note 6
20206 Corporate Capital Contingency	TOTAL Company W' 1	2,591,300	18,460	393,965	1,831,960		346,915	
	TOTAL Corporate Wide	2,371,300	10,400	373,703	1,031,700	-	340,713	
		00.000.400	1.042.240		22 (24 )22			-
<u>1</u>	TOTAL Projects Under Consideration	88,000,400	1,043,360	27,452,810	33,634,030	-	25,870,200	:
e-Approved Projects								
e-Approved Frojects								
evelopment Services								
neatre								
20007 Theatre-Courtyard Replacement (Upper & Lo	ower)	20,000		20,000				Note 1
20008 Theatre-Dressing Room Refurbishment	,	40,000		40,000				Note 2
20009 Theatre-HVAC Quantity Survey		10,200		10,200				
2000) Theate-11+AC Quality Survey	TOTAL Theatre			70,200				:
	101AL i neatre	70,200		/0,200				
								-
	TOTAL Development Services	70,200		70,200				_
	TOTAL Development Services	70,200		70,200				
orporate Services	TOTAL Development Services	70,200		70,200				
orporate Services	TOTAL Development Services	70,200		70,200				•
		70,200 750,200		70,200 750,200				•
rs		,		,				•

#### Asset Management

9/25/2019 Page 8 of 10

# Project Description				DC -	DC -		Description of Other Funding
<u> </u>	Total Tax	Tax	Life Cycle	Reserve	Developer	Other	
20079 Parking Lot Light Replacement	490,600		490,600				_
TOTAL Asset Management	490,600		490,600	-		-	-
_							-
TOTAL Corporate Services	1,424,000	-	1,424,000	-	-	-	-
Community & Fire Services							
Recreation Services							
20117 Cornell C.C. Parking Garage Rehabilitation Phase 1 of 2	248,900	248,900					
20127 Heintzman House Floor Refinishing	18,100		18,100				
20139 Milliken Mills C.C. Lobby Enhancement	597,100		70,500			526,600	Gas Tax
20158 Recreation Lighting Project Replacement	250,600		250,600				_
TOTAL Recreation Services	1,114,700		339,200			526,600	•
Markham Public Library							
20176 Library Collections	1,598,200		1,598,200				Note 3
TOTAL Markham Public Library	1,598,200		1,598,200				•
Operations - Parks							
20197 Block Pruning Initiative - Year 1 of 3	1,017,600	1,017,600					
20209 Pathways Resurfacing	139,800		139,800				
20210 Playstructure Replacement	841,900		841,900				_
TOTAL Operations - Parks	1,999,300	1,017,600	981,700				•
Operations - Utility Inspection & Survey							
20228 German Mills Meadow - Environmental Monitoring Program	330,400		330,400				_
TOTAL Operations - Utility Inspection & Survey	330,400		330,400				
ES - Infrastructure							
20239 Streetlight Poles & Cable Replacement (Varley Village)	362,000		362,000				Note 4
20245 Structures Rehabilitation (5 Structures) - Design & Const.	150,000		150,000				Note 5
TOTAL ES - Infrastructure	512,000		512,000				-
ES - Stormwater							
20252 West Thornhill Flood Control Implementation - Ph 3A Cons.	10,868,900					10,868,900	Gas Tax and Stormwater Reserve
TOTAL ES - Stormwater	10,868,900					10,868,900	•
ES - Waterworks							
20256 CI Watermain Rehabilitation - Design	437,100					437,100	Waterworks Reserve
20258 CI Watermain Replacement-West Thornhill Ph 3A	5,897,500					5,897,500	Waterworks Reserve
20265 Wastewater System Instruments - Replacement	15,300					15,300	Waterworks Reserve
TOTAL ES - Waterworks	6,349,900					6,349,900	-

# Project Description		Total	Tax	Life Cycle	DC - Reserve	DC - Developer	Other	Description of Other Funding
	TOTAL Community & Fire Services	22,773,400	1,017,600	3,761,500	-	-	17,745,400	-
Corporate Wide								
Corporate Wide								
20268 Corporate Capital Contingency		94,000	11,000	31,400			51,600	Gas Tax; Note 6
	TOTAL Corporate Wide	94,000	11,000	31,400	-	-	51,600	-
	TOTAL Corporate Wide	94,000	11,000	31,400	-	-	51,600	<del>-</del> -
	TOTAL Pre-Approval	24,361,600	1,028,600	5,287,100	-	-	17,797,000	- =
	TOTAL Projects	112,362,000	2,071,960	32,739,910	33,634,030		43,667,200	-

#### Notes:

- 1) The overall project budget is \$223,900. The pre-approval request of \$20,000 is for consulting work only.
- 2) The overall project budget is \$290,700. The pre-approval request of \$40,000 is for consulting work only.
- 3) The overall project budget is \$2,796,600. The pre-approval request of \$1,598,200 is to ensure there is no gap in the supply of library materials in Q1, 2020.
- 4) The overall project budget is \$2,190,800. The pre-approval request of \$362,000 is for design work only.
- 5) The overall project budget is \$607,200. The pre-approval request of \$150,000 is for design work only.
- 6) The overall project budget is \$2,685,300. The pre-approval request of \$94,000 represents the contingency amounts required for all project pre-approval requests.

9/25/2019 Page 10 of 10