

# **Electronic General Committee Meeting Agenda**

Meeting No. 13 October 5, 2020, 9:30 AM Live streamed

**Note:** Members of the General Committee will be participating in the meeting remotely.

Due to COVID-19, our facilities are closed to the public. Access is not permitted to the Markham Civic Centre and Council Chamber.

Members of the public may submit written deputations by email to <a href="mailto:clerkspublic@markham.ca">clerkspublic@markham.ca</a>

Members of the public who wish to make virtual deputations must register by completing an online <u>Request to Speak Form</u> or e-mail <u>clerkspublic@markham.ca</u> providing full name, contact information and item they wish to speak to. Alternatively, you may connect via telephone by contacting the Clerk's office at 905-479-7760 on the day of the meeting.

General Committee meetings are video and audio streamed on the City's website at:

https://pub-markham.escribemeetings.com/



# Electronic General Committee Agenda

Meeting Number: 13 October 5, 2020, 9:30 AM - 1:00 PM Live streamed

Please bring this General Committee Agenda to the Council meeting on October 14, 2020.

			Pages
1.	CALI	TO ORDER	
2.	DISC	LOSURE OF PECUNIARY INTEREST	
3.	APPR	OVAL OF PREVIOUS MINUTES	
	3.1	MINUTES OF THE SEPTEMBER 21, 2020 GENERAL COMMITTEE (16.0)	7
		1. That the minutes of the September 21, 2020 General Committee meeting be confirmed.	
4.	DEPU	TATIONS	
5.	COM	MUNICATIONS	
6.	PETI	TIONS	
7.	CONS	SENT REPORTS - FINANCE & ADMINISTRATIVE ISSUES	
	7.1	MINUTES OF THE JULY 6, 2020 ADVISORY COMMITTEE ON ACCESSIBILITY (16.0)	17
		1. That the minutes of the July 6, 2020 Advisory Committee on Accessibility meeting be received for information purposes.	
	7.2	2021 CAPITAL BUDGET PRE-APPROVAL (7.5)	19
		V. Siu, ext. 2232	
		1. That the report dated October 5, 2021 titled, "2021 Capital Budget Pre-Approval" be received; and	
		2. That Council approve the 2021 Capital Budget Pre-Approval, which	

3. That Staff be authorized and directed to do all things necessary to give effect to this resolution.

# 7.3 CONTRACT EXTENSION FOR WIDE AREA NETWORK (WAN) CONNECTIVITY AND INTERNET SERVICES (7.13)

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- S. Rao, ext. 4868 & R. Patano, ext. 2990
  - 1. That the report entitled "Contract Extension for Wide Area Network (WAN) Connectivity and Internet Services" be received; and,
  - 2. That the contract for WAN Services and Internet Services be extended for two (2) years (October 1, 2020 September 30, 2022) to Rogers Communications at 11.6% discounted rate, in the amount of \$577,814.44, inclusive of HST, broken down as follows;
    - October 1, 2020 December 31, 2020 \$ 72,226.81
    - January 1, 2021 December 31, 2021 \$288,907.22
    - January 1, 2022 September 30, 2022 <u>\$216,680.41</u>Total (2 years) \$577,814.44; and,
  - 3. That the contract for Internet Services with higher bandwidth (increasing from 500Mbps to 600Mbps) be extended for two years (October 1, 2020 September 30, 2022) to Bell Canada at the existing 2019 rate, in the amount of \$79,006.46 inclusive of HST, broken down as follows;
    - October 1, 2020 December 31, 2020 \$ 9,875.81
    - January 1, 2021 December 31, 2021 \$ 39,503.23
    - January 1, 2022 September 30, 2022 <u>\$ 29,627.42</u>Total (2 years) \$ 79,006.46; and,
  - 4. That the WAN Services from Rogers and the two Internet Services from Rogers and Bell to be funded from operating budget account# 400-404-5108 in amount of \$656,820.90 (inclusive of HST) over a two (2) year period; and,
  - 5. That the tendering process be waived in accordance with Purchasing Bylaw 2017-8, Part II, Section 7 (1) (c) which states "when the extension of an existing contract would prove more cost-effective or beneficial"; and further,
  - 6. That Staff be authorized and directed to do all things necessary to give effect to this resolution.

# 7.4 CONTRACT # 043-S-20 TO OPERATE AND MAINTAIN THE COMBINED HEAT AND POWER SYSTEM AT ANGUS GLEN COMMUNITY CENTRE (7.12)

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J. Vasilaki, ext. 2845 & F. Chan, ext. 3189

- 1. That the report entitled "Contract # 043-S-20 To Operate and Maintain the Combined Heat and Power System at Angus Glen Community Centre" be received; and,
- 2. That the Operation and Maintenance of the Angus Glen Combined Heat and Power System be awarded to Markham District Energy Inc. ("MDE") to an annual upset limit of \$167,904.00 inclusive of HST impact for a period of five (5) years (2020 2024), totaling \$839,520.00 inclusive of HST impact (excluding adjustment to CPI) over that five (5) year period; and,
- 3. That years 2 5 (2021-2024) be adjusted based on the Consumer Price Index (CPI) Ontario All-Items (January to January); and,
- 4. That the 2020 award be funded from operating budget account 504-921-5314 "Service Agreements Facility Maintenance"; and,
- 5. That the tendering process be waived in accordance with Purchasing By-Law 2017-8, Part II, Section 11.1 (h), which states "where it is in the best interests of the City to acquire non-standard items or Professional Services from a supplier who has a proven track record with the City in terms of pricing, quality and service;" and,
- 6. That the Mayor and Clerk be authorized to execute the agreement with Markham District Energy Inc, in a form approved by CAO and the City Solicitor; and,
- 7. That the CAO be authorized to extend the contract for an additional five (5) years (2025-2029) subject to Council's approval of the annual operating budget; and further,
- 8. That Staff be authorized and directed to do all things necessary to give effect to this resolution.

# 8. PRESENTATIONS - FINANCE & ADMINISTRATIVE ISSUES

# 8.1 WORLD COUNCIL ON CITY DATA ISO 37120 PLATINUM CERTIFICATION (12.2.6)

Note: Dr. Patricia McCarney, President & CEO, WCCD and James Patava, Vice President, WCCD will be making the virtual presentation.

- 1. That the report dated October 5, 2020 titled "World Council on City Data, ISO 37120 Certification" be received, and,
- 2. That the formal virtual presentation of the World Council on City Data (WCCD), ISO 37120 Platinum Certification to the City of Markham be received.

# 8.2 INTELLIGENT COMMUNITY FORUM (ICF) UPDATE ON ICF TOP7 EVALUATION PROCESS (7.13)

Note: Trinela Cane, Commissioner, Corporate Services will be in attendance to provide a presentation on this matter.

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1. That the presentation entitled "Intelligent Community Forum (ICF) Update on ICF Top7 Evaluation Process" be received.

## 9. PRESENTATIONS - COMMUNITY SERVICES ISSUES

# 9.1 LIFESAVING SOCIETY ONTARIO - CLUB OF THE YEAR – NOMINATION - LIFESAVING CLUB OF MARKHAM (LCM) (12.2.6)

This award is presented to a club that has contributed to the development of lifesaving sport in Canada, through participation, leadership and performances of its members provincially, nationally and/or internationally.

Clara Grassia, Manager Sport Development, Susan Stiles, Sport Development Coordinator and Jeff McCurdy, Program Supervisor will be in attendance to receive the recognition on behalf of the coaches.

The following part time coaching staff supported the LCM for the 2019 season lead by Jeff McCurdy – Program Supervisor be recognized for Club of the Year nomination:

- o Bryan Tsang
- o Sarah Monaco
- o Alyssa Arcaina
- o Evan Fong
- o Jack Lin
- o Marjorie He
- o Raymond Tung
- o Richard Wilton
- o Laura Zhao
- o Celestina Chung
- o Ian Cook

# 9.2 ASSOCIATION OF MUNICIPALITIES OF ONTARIO - PETER J. MARSHALL INNOVATION AWARD (12.2.6)

The Peter J. Marshall Innovation Award presented its highest award to the City of Markham – Recreation Department for its Aaniin Community Hub Partnership project using the Aaniin Community Centre and Library as a hub from which some dozens of community organizations partner and deliver services. Partners are provided free use of space at the centre in exchange for providing volunteer services or programming that are otherwise unavailable or difficult to access in the area.

The following recreation staff will be in attendance to be recognized by Committee for receiving the Peter J. Marshall Innovation Award:

 Carolyn Thompson, Community Program Supervisor, Community Outreach

- Shawn Hermains, Community Program Coordinator
- Anthony Ierulli, Community Area Manager
- Jason Tsien, Senior Manager, Business Development
- Mary Creighton, Director Recreation Services
- 10. MOTIONS
- 11. NOTICES OF MOTION
- 12. NEW/OTHER BUSINESS

As per Section 2 of the Council Procedural By-Law, "New/Other Business would generally apply to an item that is to be added to the Agenda due to an urgent statutory time requirement, or an emergency, or time sensitivity".

- 13. ANNOUNCEMENTS
- 14. CONFIDENTIAL ITEMS
  - 14.1 FINANCE & ADMINISTRATIVE ISSUES
    - 14.1.1 GENERAL COMMITTEE CONFIDENTIAL MINUTES SEPTEMBER 8, 2020 (16.0) [ Section 239 (2) (b)]
    - 14.1.2 PERSONAL MATTERS ABOUT AN IDENTIFIABLE
      INDIVIDUAL, INCLUDING MUNICIPAL OR LOCAL BOARD
      EMPLOYEES BOARD/COMMITTEE APPOINTMENTS AND
      RESIGNATIONS (16.24) [Section 239 (2) (b)]
    - 14.1.3 THE SECURITY OF THE PROPERTY OF THE CITY OR LOCAL BOARD LEASE ASSIGNMENT (8.2) [Section 239 (2) (a)]
- 15. ADJOURNMENT

# **Information Page**

**General Committee Members:** All Members of Council

**General Committee** 

Chair: Regional Councillor Jack Heath Vice Chair: Councillor Khalid Usman

Finance & Administrative Issues
Chair: Regional Councillor Jack Heath
Vice Chair: Councillor Khalid Usman

Community Services Issues
Chair: Councillor Karen Rea
Vice Chair: Councillor Isa Lee

**Environment & Sustainability Issues** Land, Building & Parks Construction Issues

Chair: Regional Councillor Joe Li Chair: Councillor Keith Irish Vice Chair: Councillor Reid McAlpine Vice Chair: Councillor Andrew Keyes

General Committee meetings are audio and video streamed live at the City of Markham's website.

Alternate formats are available upon request.

**Consent Items:** All matters listed under the consent agenda are considered to be routine and are recommended for approval by the department. They may be enacted on one motion, or any item may be discussed if a member so requests.

**Note:** The times listed on this agenda are approximate and may vary; Council may, at its discretion, alter the order of the agenda items.

Note: As per the Council Procedural By-Law, Section 7.1 (h) General Committee will take a 10 minute recess after two hours have passed since the last break.



# **Electronic General Committee Meeting Minutes**

Meeting Number: 12 September 21, 2020, 9:30 AM - 1:00 PM Live streamed

Roll Call Mayor Frank Scarpitti Councillor Reid McAlpine

Deputy Mayor Don Hamilton Councillor Karen Rea
Regional Councillor Jack Heath Councillor Andrew Keyes
Regional Councillor Joe Li Councillor Amanda Collucci
Regional Councillor Jim Jones Councillor Khalid Usman

Councillor Keith Irish Councillor Isa Lee

Councillor Alan Ho

Staff Andy Taylor, Chief Administrative Laura Gold, Council/Committee

Officer Coordinator

Trinela Cane, Commissioner, Corporate John Wong, Technology Support

Services Specialist II

Arvin Prasad, Commissioner Graham Seaman, Director, Sustainability

Development Services & Asset Management

Claudia Storto, City Solicitor and
Director of Human Resources
Joel Lustig, Treasurer

Martha Partit, Danyty City Clark

Council/Committee Conditions

Martha Pettit, Deputy City Clerk

Phoebe Fu, Director of Environmental

Services

Council/Committee Coordinator

Rob Grech, Manager, Stormwater

Mark Visser, Sr. Manager, Strategy

Morgan Jones, Director, Operations Innovation & Investments

Hristina Giantsopoulos, Elections & Sameem Shah, Project Manager

Council/Committee Coordinator

# 1. CALL TO ORDER

In consideration of the ongoing public health orders, this meeting was conducted electronically to maintain physical distancing of participants. With the recent passage of Bill 197 COVID-19 Economic Recovery Act, municipal Council Members are now permitted to meet remotely and count towards quorum.

The General Committee Meeting convened at the hour of 9:33 AM in the Canada Room with Regional Councillor Jack Heath presiding as Chair for all items on the agenda.

Mayor, Frank Scarpitti addressed the Committee to speak about the death of the Right Honourable John N. Turner, former Prime Minister of Canada. The Mayor recognized his contributions to Canada and on behalf of all Members of Council extended deepest condolences to Mr. Turner's family and advised that flags at all City facilities would be lowered. Mayor Scarpitti led a moment of silence in his honour.

### 2. DISCLOSURE OF PECUNIARY INTEREST

There were none disclosed.

# 3. APPROVAL OF PREVIOUS MINUTES

# 3.1 MINUTES OF THE SEPTEMBER 8, 2020 GENERAL COMMITTEE (16.0)

Moved by Councillor Keith Irish Seconded by Councillor Karen Rea

1. That the minutes of the September 8, 2020 General Committee meeting be confirmed.

Carried

### 4. **DEPUTATIONS**

Deputations were made for the following item:

8.1. Geese Management At Swan Lake - Overview Of Options & Path Forward Refer to the individual item for the deputation details.

### 5. COMMUNICATIONS

There were no communications.

### 6. PETITIONS

There were no petitions.

# 7. CONSENT REPORTS - ENVIRONMENT & SUSTAINABILITY ISSUES

# 7.1 ASSET MANAGEMENT PLAN PROGRESS UPDATE (5.0)

Graham Seaman, Director of Sustainability and Asset Management, addressed the committee to advise that this report is an Auditor General recommendation and is the first of subsequent annual reports. In response to the inquiry from the

Committee, he confirmed that future reports will encompass more detail to provide a better overview of City assets and their management.

The Committee requested that staff prepare a revised memo that provides more detail on the asset evaluation criteria and processes being considered for the 2021 Asset Management Plan update.

Moved by Councillor Reid McAlpine Seconded by Councillor Isa Lee

1. That Council receive the Asset Management Plan Progress Update.

Carried

# 7.2 MARKHAM SUB-COMMITTEE MINUTES – (SWAN LAKE WATER QUALITY CONTROL PROGRAM) – AUGUST 14, 2020 (5.0 & 10.0)

Moved by Councillor Reid McAlpine Seconded by Councillor Isa Lee

1. That the minutes of the Markham Sub-Committee - (Swan Lake Water Quality Control Program) meeting held August 14, 2020, be received for information purposes.

**Carried** 

### 8. PRESENTATIONS - ENVIRONMENT & SUSTAINABILITY ISSUES

# 8.1 GEESE MANAGEMENT AT SWAN LAKE – OVERVIEW OF OPTIONS AND PATH FORWARD (5.0)

Fred Peters, representative of Friends of Swan Lake Park, addressed the Committee and delivered a presentation entitled, Friends of Swan Lake Park Geese Management and provided recommendations in support of the program proposed by staff. He requested that a strobe light initiative be added.

Ross Lunan, Swan Lake Resident, addressed the Committee in support of the hazing and relocation initiative in relation to the geese management program.

Mark Henschel, Swan Lake Resident, addressed the Committee to provide details on his data collection with respect to geese counts and his work with mute swans. He indicated that he does not support the strobe light initiative because it does not isolate geese and will negatively affect the swan population.

Phoebe Fu, Director, Environmental Services, addressed the Committee to introduce the item and indicated that this is the first action component regarding the initiatives related to Swan Lake. She introduced Rob Grech, Manager, Stormwater, who delivered a presentation entitled, "Geese Management at Swan Lake – Overview of Options and Path Forward" that provided an update on current options and costs to undertake the geese management program at Swan Lake. Danny Moro, Project Manager, Toronto Regional Conservation Authority, was in attendance to respond to inquiries made by the Committee.

There was discussion relating to the proposed recommendations of the program, which included the following:

- Inquiry into the other species at Swan Lake;
- That geese population management is not a unique issue to Swan Lake and that solutions can benefit the community as a whole;
- The inclusion of the strobe light initiative for this season; and,
- The importance of developing a method to document other wildlife impacted by a strobe light initiative, without the inclusion of swans.

The Committee requested that staff obtain additional information to explore the environmental and financial impacts of a potential strobe light pilot and provide a memo at the Council Meeting on September 30, 2020.

Moved by Councillor Andrew Keyes Seconded by Mayor Frank Scarpitti

- 1. That the presentation entitled "Geese Management at Swan Lake Overview of Options and Path Forward", dated September 21, 2020, be received; and,
- 2. That Council approve the proposed changes outlined in the presentation to the existing Swan Lake Geese Control program; and,
- 3. That a review of options for modifying the habitat to deter geese from Swan Lake shall be considered through the Park Refresh Plan; and,
- 4. That the budget shortfall, in the amount of \$9,500, be funded from the Non-DC capital contingency for project 20250 Water Quality Improvements and Geese Control for the implementation of 2020 fall hazing and volunteer program; and,

- 5. That the 2021 Water Quality Improvements and Geese Control project request include \$10,000 for the TRCA managed geese relocation program; and further,
- 6. That Staff be authorized and directed to do all things necessary to give effect to this resolution.

Carried

Moved by Councillor Andrew Keyes Seconded by Deputy Mayor Don Hamilton

That Council approve an additional \$9,000.00 to include a strobe light pilot for geese population management.

Carried

Moved by Mayor Frank Scarpitti Seconded by Councillor Amanda Collucci

That staff be directed to provide additional information on the impacts of a strobe light pilot program to foster geese population management for the Council Meeting on September 30, 2020.

Carried

# 9. REGULAR REPORTS - ENVIRONMENT & SUSTAINABILITY ISSUES

9.1 ASSUMPTION OF MCCOWAN ROAD WATERMAIN AND ASSOCIATED INFRASTRUCTURE CONSTRUCTED BY THE REGIONAL MUNICIPALITY OF YORK (5.0)

Staff provided a description of the road assumption report and explained that in response to a water supply disruption, the Region built new watermain infrastructure and will transfer ownership of it to the City.

Moved by Councillor Karen Rea Seconded by Mayor Frank Scarpitti

- 1. That the report entitled "Assumption of McCowan Road Watermain and associated infrastructure constructed by the Regional Municipality of York" be received; and,
- 2. That Staff be authorized to assume the ownership of the new McCowan Road 150mm diameter PVC watermain and associated infrastructure constructed by The Regional Municipality of York; and,
- 3. That the Director of Environmental Services be authorized to execute the Memorandum of Understanding between The Regional Municipality of York and the City of Markham related to the assumption of McCowan Road Watermain and associated infrastructure, to the satisfaction of the City Solicitor; and further,
- 4. That Staff be authorized and directed to do all things necessary to give effect to this resolution.

Carried

## 10. MOTIONS

There were no motions.

## 11. NOTICES OF MOTION

There were no notices of motions.

### 12. NEW/OTHER BUSINESS

# 12.1 EMERGENCY COVID-19 RELIEF FOR THE HOTEL ACCOMMODATION SECTOR

Mayor Scarpitti introduced a motion in relation to emergency COVID-19 relief specifically for the hotel accommodation sector in response to its significant financial impact.

There was discussion on the following:

• Inquiry into the possibility of requesting that the province provide assistance to other business or industry types;

- The potential response to other businesses or industry types;
- The City's proactive approach with implementing a number of property tax and fee relief measures to assist taxpayers experiencing financial hardship from the pandemic, which included;
  - o Waiving late payment charges for all taxpayers until Dec 31<sup>st</sup>, 2020;
  - o Elimination of the 2020 Stormwater fee;
  - o Maintaining the April 1<sup>st</sup>, 2019 water rate; and,
  - Suspending the Municipal Accommodation Tax (MAT) to Dec 31<sup>st</sup>, 2020.
- That the main issue faced by the hotel industry currently is the record low occupancy levels and limited revenue potential;
- The significance between the lack of occupancy and revenue losses being experienced by hotels versus the income opportunities experienced by shopping malls and retail sector;
- Inquiry into whether the current situation has the potential to auto-correct itself over time;
- Consideration of deferring the MAT tax for 2021, would assist hotels with financial planning and budgeting; and,
- Consideration to allow this resolution to stand alone with respect to the hotel accommodation sector.

Andy Taylor, Chief Administrative Officer addressed the Committee and indicated that this is a once in a lifetime challenge being experienced by hoteliers in City and throughout the Province, as the Hotel industry has endured substantial financial losses, driven in part by the closure of international borders and low consumer travel confidence. Staff provided the Committee with an overview of how the current value assessments (CVA) of hotels are developed by the Municipal Property Assessment Corporation (MPAC) and further indicated that the current CVA's attributed to each hotel do not reflect the negative financial impact and the substantial revenue losses hotels are currently experiencing. As such, Staff advised Committee that this will result in significant property tax burdens moving into 2021, if a revaluation of all Hotel property assessments is not completed prior to the issuance of the 2021 final tax bill by municipalities.

The Committee, without objection, requested that staff forward the resolution immediately to the Premier of Ontario and those listed.

Moved by Mayor Frank Scarpitti Seconded by Councillor Andrew Keyes

Whereas the COVID-19 pandemic has brought unprecedented public health challenges to Canada which has resulted in a slowdown of the Canadian economy and has created significant financial pressures to most industry sectors; and,

Whereas this unprecedented environment of economic uncertainty has directly and immediately impacted the hospitality and tourism sectors, with hotels experiencing record low occupancy rates driven in part by the closure of international borders, reduced business workshops and conferences combined with lower consumer travel confidence; and,

Whereas the uncertainty of recovery timing and the expectation that a full recovery may take several years, it is imperative that the provincial government provide immediate measures to protect and assist Ontario's Hotel Industry so they can remain resilient and viable during this uncertain time; and,

Whereas the COVID-19 pandemic had prompted the Province of Ontario to postpone the 2020 Assessment Update, and further directed that all Ontario property assessments to be levied upon for the 2021 tax year, continue to be based on the fully phased-in assessment amounts utilized for the 2020 tax year; and,

Whereas the current property assessment values of hotel properties do not represent the current negative financial impact of COVID-19 and the substantial decrease in revenue experienced by Hotels, which will result in inaccurate property assessments and significant property tax burdens moving forward into the 2021 taxation year and beyond; and,

Whereas Markham Council through the Destination Markham Corporation is in the midst of launching several programs and strategic initiatives to support the reopening and recovery of the tourism economy with the goal of increasing Hotel overnight stays.

Now therefore be it resolved:

- 1. That Markham Council requests the Province of Ontario work with local municipalities to develop immediate options which could assist the Hotel Industry with mitigating the significant financial impacts resulting from the COVID-19 pandemic; and,
- 2. That these options include but not be limited to the following:

- Requesting the Municipal Property Assessment Corporation (MPAC)
  undertake a review and re-evaluation of all Hotel property assessments prior
  to the issuance of the 2021 final tax bill by Ontario municipalities; and,
- b. Requesting the Minister of Finance consider removing the education portion of the property taxes for Hotels properties in Ontario for the 2021 taxation year, and,
- c. Requesting the Minister of Finance consider developing a tax relief program to assist Hotel properties with the record low occupancy rates and limited revenue potential during this unprecedented time; and,
- 3. Be it further resolved, that a copy of this resolution be sent to:
- a. The Honourable Doug Ford, Premier of Ontario;
- b. The Honourable Rod Phillips, Minister of Finance;
- c. The Honourable Steve Clark, Minister of Municipal Affairs and Housing;
- d. All Members of Provincial Parliament in the Regional Municipality of York;
- e. All Council Members of the Regional Municipality of York;
- f. All Municipal Property Assessment Corporation (MPAC) Board of Directors;
- g. Nicole McNeill, President and Chief Administrative Officer, MPAC;
- h. Carmelo Lipsi, Vice-President, Valuation and Customer Relations and Chief Operating Officer, MPAC; and,
- Greg Martino, Vice-President, Valuation and Assessment Standards and Chief Valuation and Standards Officer, MPAC.

Carried

# 13. ANNOUNCEMENTS

There were no announcements.

### 14. ADJOURNMENT

Moved by Mayor Frank Scarpitti Seconded by Councillor Andrew Keyes

That the General Committee Meeting adjourn at 11:47 AM.

Carried

# **Advisory Committee on Accessibility Minutes**

# July 6, 2020 5:00 PM - 7:00 PM Zoom Video Conference

**Attendance:** Barry Martin, Chair, Councillor Isa Lee, Robert Hunn, Vice-Chair, Laura Meffen, Jewell Lofsky, Rita Lam, Anna Giallonardo, Nahid Verma, Meenu Khanna, George George, Mona Nazif, Senior Manager HR Client Services, Laura Gold, Council/Committee Coordinator, and Grace Lombardi, Legislative Coordinator

## Regrets:

Brian Lynch, Kaushi Ragunathan, Valerie Kitazaki, and Elaine Vollett

Item		Discussion	Action
1.	Call to Order	The Advisory Committee on Accessibility convened at 5:14 PM with Barry Martin in the Chair.	
2.	Approval of the Minutes	Moved by Councillor Isa Lee Seconded by Laura Meffen  That the June 29, 2020 Advisory Committee on Accessibility Minutes be approved as presented.  Carried	
3.	Markham Accessibility Award	The Committee Members reviewed the nomination form and provided their recommendations. Due to COVID19, the Committee Members agreed to extend the nomination deadline to October 16, 2020, and to create a sub-committee at the September meeting to select the winners and provide the Committee with their recommendations. Committee Members discussed acknowledging the nominees with congratulatory letters if an Accessibility Award ceremony is unable to take place this year.  The Committee requested the City's Corporate Communications department review the nomination form to confirm it is accessible and to assist with the promotion of the award through the City's social media channels.	Laura Gold to update the Nomination Form with Committee member's recommendations and the new date.  Mona, Grace & Laura to communicate with the City's Corporate Communications department on the promotion of the Accessibility Award.
4.	New Business	Committee Members expressed their disappointment that they were unable to provide advice to the City on accessibility matters during the COVID-19 Pandemic.  It was suggested that Committee Members may find it useful to find ways to check in and provide support to each other during COVID.	Grace to send email to Committee Members to confirm best way of communication and consent to share

# Advisory Committee on Accessibility July 6, 2020

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Item	Discussion	Action
		information with other members.
5. Adjournment	The Advisory Committee on Accessibility adjourned at 6:18 PM.	



Report to: General Committee Meeting Date: October 5, 2020

**SUBJECT**: 2021 Capital Budget Pre-Approval

**PREPARED BY:** Veronica Siu, Senior Financial Analyst, Financial Planning

and Reporting

## **RECOMMENDATION:**

1. That the report dated October 5, 2021 titled, "2021 Capital Budget Pre-Approval" be received; and

- 2. That Council approve the 2021 Capital Budget Pre-Approval, which totals \$10,292,800 as outlined in Appendices 1 and 2; and
- 3. That Staff be authorized and directed to do all things necessary to give effect to this resolution.

### **PURPOSE:**

To obtain Council approval of the select 2021 capital projects included in this report.

# **BACKGROUND:**

The 2021 Capital Budget is tentatively scheduled to be approved at the December 9, 2020 Council meeting. Prior to budget approval, some capital projects require earlier initiation to prevent delays in design or construction, meet operational/program requirements and allow timely commencement of the procurement process to potentially achieve competitive pricing. Pre-approval is being requested for the 2021 capital projects identified in this report to achieve those goals.

### **OPTIONS/ DISCUSSION:**

Staff are requesting that fourteen (14) projects, totalling \$10,292,800, be pre-approved in this report, as listed in Appendix 1. The corresponding request forms are attached for reference in Appendix 2. Projects being requested for pre-approval, grouped by category, are as follows:

- Existing Roads/Bridges Repairs (\$3.16M)
  - Asphalt Resurfacing
- Facility Repairs/Maintenance (\$2.99M)
  - o Theatre HVAC Replacement
  - o Parking Lots Rehabilitation
  - o Civic Centre Vestibule Repairs and/or Replacements
  - o Theatre Fire Alarm 2 Stage Conversion
- Library Collections (\$1.60M)
  - Library Collections

Meeting Date: October 5, 2020

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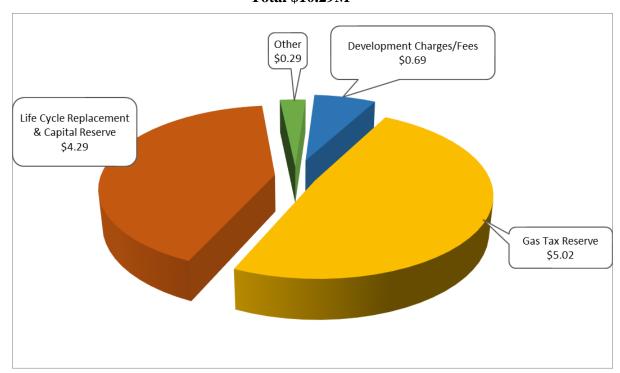
- Parks Construction/Maintenance (\$2.00M)
  - o Block Pruning Initiative Phase 2 of 3
  - o Markham Trail Phase 1B Construction
  - o Berczy Beckette Park (Cherna Ave)
  - Green Lane Park
  - Yonge and Grandview Park
- Vehicle Replacement (\$0.29M)
  - o Corporate Fleet Replacement Non-Fire
- Other (\$0.26M)
  - o Corporate Capital Contingency
  - SCBA Decontamination Machine

The major sources of funding for the 2021 Capital Budget pre-approval include:

- \$5.02M (48.8%) from Federal Gas Tax revenue;
- \$4.29M (41.7%) from Life Cycle Replacement and Capital Reserve Fund
- \$0.69M (2.8%) from Development Charges and Development Fees.
- \$0.29M (6.7%) from Other Funding Sources

A comparative illustration of sources of funding is illustrated in Chart 1.

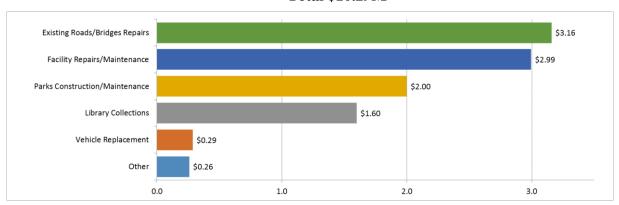
Chart 1: 2021 Capital Budget pre-approval funding sources **Total \$10.29M** 



Meeting Date: October 5, 2020

The 2021 Capital Budget pre-approval expenditures, by category, are summarized in Chart 2.

Chart 2: 2021 Capital Budget pre-approval expenditures by category
Total \$10.29M



## FINANCIAL CONSIDERATIONS

The 2021 Capital Budget pre-approval includes \$10,292,800 of capital projects which are funded from multiple funding sources as outlined in Appendix 1.

## **HUMAN RESOURCES CONSIDERATIONS**

Not applicable

## **ALIGNMENT WITH STRATEGIC PRIORITIES:**

The 2021 Capital Budget pre-approval includes capital projects that align with the City of Markham's strategic priorities developed by Council.

# **BUSINESS UNITS CONSULTED AND AFFECTED:**

All affected business units have been consulted during the 2021 Capital Budget preapproval submission and review process.

## **RECOMMENDED BY:**

Joel Lustig Treasurer Trinela Cane Commissioner, Corporate Services

Meeting Date: October 5, 2020

# **ATTACHMENTS:**

Appendix 1-2021 Capital and Other Programs Pre-Approval Budget Appendix 2-2021 Capital and Other Programs Pre-Approval Budget Project Request

Forms

# CITY OF MARKHAM 2021 CAPITAL and OTHER PROGRAMS PRE-APPROVAL BUDGET by Department

# Project Description	Total	Tax	Operating Life Cycle	DC - Reserve	Other	Description of Other Funding
Development Services						
Theatre						
21004 Theatre Fire Alarm 2 Stage Conversion	25,400		25,400			
TOTAL Theatre	25,400		25,400	-	-	
Design						
21019 Berczy Beckett Park (Cherna Ave.) - Design & Construction	59,800			53,820	5,980	Parks Cash-in-Lieu; Note 1
21022 Green Lane Park - Design and Construction	48,000			43,200	4,800	Parks Cash-in-Lieu; Note 2
21023 Yonge and Grandview Park - Design and Construction	56,500			50,850	5,650	Parks Cash-in-Lieu; Note 3
TOTAL Design	164,300		-	147,870	16,430	
Ingineering						
21029 Markham Centre Trail Phase 1B Construction	816,000			530,400	285,600	Section 37
TOTAL Engineering	816,000		-	530,400	285,600	
TOTAL Development Services	1,005,700	-	25,400	678,270	302,030	
Corporate Services						
Asset Management						
21049 Civic Centre Vestibule Repairs and/or Replacements	290,700		290,700			
21063 Theatre-HVAC Replacement	2,000,000		91,200		1,908,800	Gas Tax
TOTAL Asset Management	2,290,700		381,900	-	1,908,800	
TOTAL Corporate Services	2,290,700		381,900	-	1,908,800	

# CITY OF MARKHAM 2021 CAPITAL and OTHER PROGRAMS PRE-APPROVAL BUDGET by Department

# Project Description	Total	Tax	Operating Life Cycle	DC - Reserve	Other	Description of Other Funding
Community & Fire Services						
Fire & Emergency Services						
21071 SCBA Decontamination Machine	63,300	63,300				
TOTAL Recreation Se	ervices 63,300	63,300	-		-	
Markham Public Library						
21099 Library Collections	1,598,200		1,598,200			Note 4
TOTAL Markham Public L	<u>ibrary</u> 1,598,200		1,598,200			
Operations - Roads						
21101 Asphalt Resurfacing	3,157,900		224,340		2,933,560	Gas Tax; Note 5
21113 Parking Lots- Rehabilitation	678,900		678,900			
TOTAL Operations -	Roads 3,836,800	-	903,240	-	2,933,560	
Operations - Parks						
21119 Block Pruning Initiative - Year 2 of 3	1,017,600	1,017,600				
TOTAL Operations -	Parks 1,017,600	1,017,600	-			
Operations - Fleet						
21140 Corporate Fleet Replacement - Non-Fire	285,900		285,900			Note 6
TOTAL Operations	- Fleet 285,900		285,900			
TOTAL Community & Fire So	ervices 6,801,800	1,080,900	2,787,340		2,933,560	

# CITY OF MARKHAM 2021 CAPITAL and OTHER PROGRAMS PRE-APPROVAL BUDGET by Department

# Project Description		Total	Tax	Operating Life Cycle	DC - Reserve	Other	Description of Other Funding
Corporate Wide							
Corporate Wide							
21177 Corporate Capital Contingency		194,600		12,200		182,400	Gas Tax; Note 7
	TOTAL Corporate Wide	194,600	-	12,200	-	182,400	
	TOTAL Corporate Wide	194,600	-	12,200	-	182,400	
TOTAL	PRE-APPROVAL REQUESTS	10,292,800	1,080,900	3,206,840	678,270	5,326,790	

#### Notes:

- 1) The overall project budget is \$465,200. The pre-approval request of \$59,800 is for consulting work only.
- 2) The overall project budget is \$549,300. The pre-approval request of \$48,000 is for consulting work only.
- 3) The overall project budget is \$637,900. The pre-approval request of \$56,500 is for consulting work only.
- 4) The overall project budget is \$2,806,300. The pre-approval request of \$1,598,200 is to ensure there is no gap in the supply of library materials in Q1, 2021.
- 5) The overall project budget is \$6,815,800. The pre-approval request of \$3,157,900 is to commence procurement of contracts earlier to potentially attain better pricing.
- 6) The overall project budget is \$1,620,700. The pre-approval request of \$285,900 is to commence procurement of articulating loader earlier to potentially attain better pricing.
- 7) The overall project budget is \$1,557,100. The pre-approval request of \$194,600 represents the contingency amounts required for all project pre-approval requests.



Appendiae2Paste90

2021 PROJECT FUNDING REQUEST FORM Number: 21004 **Project Cost:** \$25,400 Project Name: Theatre Fire Alarm 2 Stage Conversion Repair/Replace Commission: Development Services Pre Approval: Useful Life: 20 Department: Theatre Category: Minor Project Mgr: Andrew Rosenfarb Cost Validation: Third party estimate Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □ Requirement Validation: Condition assessment 

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

This project aims to transition the theatre from a single stage fire alarm which forces immediate evacuations, regardless of severity, to a two stage alarm which allows for a short investigation by staff before triggering a full evacuation. This project will also address an update to the fire panel allowing each smoke/heat detector device and pull stations to be updated to an addressable device. This means that from the fire panel, staff can see exactly what device has caused an alarm for quicker investigation and response.

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

PROJECT COSTS (\$)	<u>2021</u>	<b>Future Phases</b>
Cost/Quote:	25,000	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	25,000	0
HST Impact:	440	0
Total Project Cost:	25,400	0

### NOTES

Amount requested is consistent with life cycle. All theatres and attractions researched have 2 stage alarms to avoid unnecessary evacuations and is considered industry standard. Fire department has been consulted and they have no concerns as long as the Ontario Fire Code Regulations are met.

SOURCE(S) OF FUNDING (\$	<u> </u>		Compone	ents			E4
Funding Type	<b>Budget</b>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	25,400	0	0	0	0	0	0
TOTAL FUNDING	25,400				=	0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OTERMINO BEDGET HAT INC.	\$0	\$0	\$0	\$0	

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

<u>DCA</u>		Amount in	Life Cycle	
Name	Year Amou		- Amount in Study:	2,739,100
			Amount Incl HST	25,400
			Year in the study	2021
DCA and/or Life Cycle: Explain if there is a cl	hange in the year and/or co	ost:		
Derrund of Ene Ofere. Explain it unere is a ex	mange in the year and, or ea			



	2021 DDO I	ECT EINDI	NG DEOU	ECT EADI	_		Apperld	hige 27 Page	
MARKHAM	2021 PKOJ	ECT FUNDI	NG KEQUE	SI FUKN	I Ni	umber	21	019	
Project Name: Berczy Be	ookott Dork (Che	rno Avo ) Doci	an & Construe		Project (	Cost:	\$465	,200	
	,	Tha Ave.) - Desig	gn & Construc			New	Asset/Exp	oansion	
Commission: Developmen	nt Services			Usefi	ul Life:	25	Pre App	oroval:	
Department: Design				Category: Ma	ior		11		
Project Mgr: Richard Fou			alidation: Re		rds				
.,	2 3 4		Requirement V				otes)		
5 🗌	6 ✓ 7 □ 8 □		requirement v		ner (speer	11 11110	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
DETAILED DESCRIPTIO	ON (SCOPE OF P	ROJECT):							
BUILDING MARKHAM'S	S FUTURE TOGI		d, Diverse & Thriv	ing City					
PROJECT COSTS (\$)	<u>2021</u>	<b>Future Phases</b>							
Cost/Quote:	270.000	Ō	Cost per ha is \$2,736,470 (\$465,200/0.17 ha) or \$1,057,273 per acre. Annualized operating cost is \$1,559 (0.17 ha x \$9170/ha)						
	370,000	0	acre. Annualize	ed operating co	st is \$1,	559 (0.1	7 ha x \$9	170/ha)	
Internal Charges:	37,800	0	acre. Annualize starting in 2022	ed operating co 2. Estimated in	st is \$1,5 -service	559 (0.1 date: Q2	7 ha x \$9 2 2022.  C	170/ha) Costs will be	
Internal Charges: External Consulting:			acre. Annualize	ed operating co 2. Estimated in Life Cycle Re	ost is \$1,5 -service serve Stu	559 (0.1 date: Q2 idy at tii	7 ha x \$9 2 2022. C me of par	170/ha) Costs will be	
External Consulting:  Sub Total:	37,800 50,000 457,800	0 0	acre. Annualize starting in 2022 included in the	ed operating co 2. Estimated in Life Cycle Re	ost is \$1,5 -service serve Stu	559 (0.1 date: Q2 idy at tii	7 ha x \$9 2 2022. C me of par	170/ha) Costs will be	
External Consulting:  Sub Total:  HST Impact:	37,800 50,000 457,800 7,392	0	acre. Annualize starting in 2022 included in the	ed operating co 2. Estimated in Life Cycle Re	ost is \$1,5 -service serve Stu	559 (0.1 date: Q2 idy at tii	7 ha x \$9 2 2022. C me of par	170/ha) Costs will be	
External Consulting:  Sub Total:	37,800 50,000 457,800	0 0	acre. Annualize starting in 2022 included in the	ed operating co 2. Estimated in Life Cycle Re	ost is \$1,5 -service serve Stu	559 (0.1 date: Q2 idy at tii	7 ha x \$9 2 2022. C me of par	170/ha) Costs will be	
External Consulting:  Sub Total:  HST Impact:  Total Project Cost:	37,800 50,000 457,800 7,392 <b>465,200</b>	0 0 0 0	acre. Annualize starting in 2022 included in the	ed operating co 2. Estimated in Life Cycle Re ed on updated	ost is \$1,5 -service serve Stu	559 (0.1 date: Q2 idy at tii	7 ha x \$9 2 2022. C me of par	170/ha) Costs will be k amenity.	
External Consulting:  Sub Total:  HST Impact:  Total Project Cost:  SOURCE(S) OF FUNDING	37,800 50,000 457,800 7,392 <b>465,200</b>	0 0 0 0	acre. Annualize starting in 2022 included in the assumption bas	ed operating co 2. Estimated in Life Cycle Re ed on updated	ost is \$1,5 -service serve Stu	559 (0.1 date: Q2 idy at tin ment cos	7 ha x \$9 2 2022. C me of par	170/ha) Costs will be	
External Consulting:  Sub Total:  HST Impact:  Total Project Cost:  SOURCE(S) OF FUNDING  Funding Type	37,800 50,000 457,800 7,392 465,200	0 0 0 0	acre. Annualize starting in 2022 included in the assumption bas	ed operating co 2. Estimated in Life Cycle Re ed on updated	ost is \$1,5 -service serve Stu	559 (0.1 date: Q2 ady at tinent cos	7 ha x \$9 2 2022. C me of parl at for each	170/ha) Costs will be k amenity.  Future	
External Consulting:  Sub Total:  HST Impact:	37,800 50,000 457,800 7,392 465,200 G (\$)	0 0 0 0 0	acre. Annualize starting in 2022 included in the assumption bas	ed operating co 2. Estimated in Life Cycle Re ed on updated	ost is \$1,; -service serve Stu replacen	559 (0.1 date: Q2 ady at tinent cos	7 ha x \$9 2 2022. Come of part at for each	170/ha) Costs will be k amenity.  Future Phases	

Funding Type	<u>Budget</u>					<u>TOTAL</u>	<u>Phases</u>
DCA	418,680	0	0	0	0	0	0
Parks Cash-in-Lieu	46,520	0	0	0	0	0	0
TOTAL FUNDING	465,200				_	0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OI EMITTING DED GET TIME TELE	\$0	\$0	\$0	\$0	

s - Berczy Beckett Neighbourhood Park	2015		Study	A
	2017	418,680	661,500	Amount in Study:
TAL FUNDING		418,680	661,500	Amount Incl HST
				Year in the study
amenities are less than anticipated in DCBS.				



Appendiae2Paste99 2021 PROJECT FUNDING REQUEST FORM ARKHAM Number: 21022 **Project Cost:** \$549,300 Project Name: Green Lane Park - Design and Construction New Asset/Expansion Commission: Development Services Pre Approval: Useful Life: 25 Department: Design Category: Major Project Mgr: Richard Fournier Cost Validation: Recent awards Ward(s): CW □ 1 ✓ 2 □ 3 □ 4 □ Requirement Validation: Other(specify in Notes) **DETAILED DESCRIPTION (SCOPE OF PROJECT):** This project is to design and construct the 0.79ac (0.32ha) park at the south east corner of Green Lane and Harold Lawrie Lane. Anticipated amenities include Jr/Sr playground, half basketball, shade structure and associated landscape works. Engaged, Diverse & Thriving City **BUILDING MARKHAM'S FUTURE TOGETHER: NOTES PROJECT COSTS (\$)** 2021 **Future Phases** Cost per ha is \$1,716,563 (\$549,300/0.32ha) or \$691,900 per acre. Cost/Quote: 450,000 0 Annualized operating cost is \$2,934 (0.32ha X \$9,170). Estimated in service date: Q3 2022. Costs will be included in the Life Cycle 0 **Internal Charges:** 40,500 Reserve Study at time of park assumption based on updated **External Consulting:** 50,000 0 replacement cost for each amenity. Sub Total: 540,500 0 **HST Impact:** 0 8,800 **Total Project Cost:** 549,300 0 SOURCE(S) OF FUNDING (\$) **Components Future Funding Type TOTAL Phases Budget** DCA 494,370 0 0 0 0 0 0 Parks Cash-in-Lieu 0 0 0 0 0 0 54,930 TOTAL FUNDING 549 300 A O

TOTAL PONDING	<u> </u>				
OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
OTEMITING BUDGET IMPRET	0.2	02	0.2	0.2	

	\$0	\$0		\$0	\$0	
/LIFE CYCLE DETAILS						
<u>DCA</u>		<del>-</del> -7		mount in	<u>Life Cycle</u>	
Name		Year	Amount	Study	Amount in Study:	
Parks - Yonge Canac Park		2021	494,370	696,807	•	
TOTAL FUNDING			494,370	696,807	Amount Incl HST	
					Year in the study	
DCA and/or Life Cycle: Explain i	f there is a change i	n the year an	ıd/or cost:			



# 2021 PROJECT FUNDING REQUEST FORM

Appendige 20 age 0

Number: 21023
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During Manager 77	10 11 B			Project	Cost:	\$637	,900
Project Name: Yonge and	d Grandview Pa	rk - Design and C	Construction	=	New	Asset/Ex <sub>1</sub>	pansion
Commission: Developme	ent Services			Useful Life:	25	Pre App	
Department: <u>Design</u>			Catego	ory: Major	23	Потр	provar.
Project Mgr: Richard Fo			_	ion: Recent awa	arde		
	2 3 4 4		Requirement Validati			otes)	
5 🗆	6 7 8		requirement variation	Other (spec	II y III I W	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
DETAILED DESCRIPTION		· · · · · · · · · · · · · · · · · · ·					
This project is to design and Anticipated park amenities							
Anticipated park amenities	merude Jumoi/ Sem	or prayground, praza	area, snade structure,	paurways and as	ssociated	ranuscap	e works.
BUILDING MARKHAM	'S FUTURE TOG	ETHER: Engaged	, Diverse & Thriving Cit	y			
PROJECT COSTS (\$)	2021	Enture Phages	NOTES				
	· <del></del>	Future Phases	Cost per ha is \$2,199				
Cost/Quote:	530,000	0	Annualized operating in service date: Q3 20				
Internal Charges: External Consulting:	47,700 50,000	$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$	Reserve Study at time	of park assump			
	<u> </u>		replacement cost for	each amenity.			
Sub Total: HST Impact:	627,700 10,208	$\frac{0}{0}$					
Total Project Cost:	637,900						
	037,900						
SOURCE(S) OF FUNDIN	<u>G (\$)</u>		Components				E 4
Funding Type	Budget				I	OTAL	<u>Future</u> <u>Phases</u>
DCA	574,110	0	0	0	0	0	0
Parks Cash-in-Lieu	63,790	0	0	0	0	0	0
TOTAL FUNDING	637,900					0	0
						=====	
	Pe.	rsonnel Non Per	sonnel Revenues	Expenditu	res/(Re	venues)	
OPERATING BUDGET	<u>IMPACI</u>	\$0 \$0	\$0		\$0		
DCA/LIFE CYCLE DETA	<u>AILS</u>						
<u>DCA</u>		<b>X</b> 7	Amoun		<u>Cycle</u>		
			· Amount Stud	<b>y</b> .		d	
Name	nels	Year		12.074 Amo	unt in St	uay:	
Name Parks - Yonge Devron Pa	nrk	202	20 574,110 6	13,9/4	unt in St ant Incl ]	•	
Name	ark		20 574,110 6	$\frac{13,974}{13,974}$ Amou	unt Incl	HST	
Name Parks - Yonge Devron Pa TOTAL FUNDING		202	574,110 6 574,110 6	$\frac{13,974}{13,974}$ Amou		HST	
Name Parks - Yonge Devron Pa		202	574,110 6 574,110 6	$\frac{13,974}{13,974}$ Amou	unt Incl	HST	
Name Parks - Yonge Devron Pa TOTAL FUNDING		202	574,110 6 574,110 6	$\frac{13,974}{13,974}$ Amou	unt Incl	HST	
Name Parks - Yonge Devron Pa TOTAL FUNDING		202	574,110 6 574,110 6	$\frac{13,974}{13,974}$ Amou	unt Incl	HST	
Name Parks - Yonge Devron Pa TOTAL FUNDING		202	574,110 6 574,110 6	$\frac{13,974}{13,974}$ Amou	unt Incl	HST	
Name Parks - Yonge Devron Pa TOTAL FUNDING		202	574,110 6 574,110 6	$\frac{13,974}{13,974}$ Amou	unt Incl	HST	



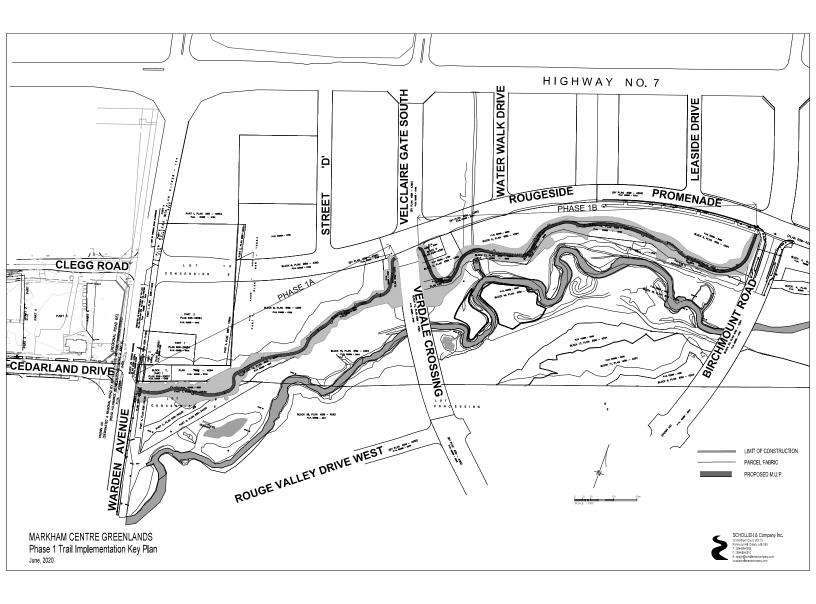
# 2021 PROJECT FUNDING REQUEST FORM

Appendige23Page99

Number: 21029

Project Name: Markham	Centre Trail P	hase 1B Const	ruction	P	Project Cost:	\$816	,000
					Nev	Asset/Ex	pansion
Commission: Developme				Usefu	ıl Life: 0	Pre Ap	proval: 🗹
Department: <u>Engineering</u> Project Mgr: Alberto Lin				Category: Ma	jor		
-			Cos	t Validation: Red	cent awards		
	2 3 2 4		Requirement	Validation: Oth	er(specify in N	lotes)	
	6 7 8						
Chis Budget Request is for the Rouge River from Verdale to	ne construction of	the Phase 1B of the	he trails on Markl	nam Centre. This	location is on t	he north s	ide of
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Safe	& Sustainable Con	nmunity			
PROJECT COSTS (\$)	2021	Future Phases	NOTES				
			The 2020 ap	proved budget wa			
Cost/Quote:	723,270	0		ase 1 due to new rmeable asphalt e			
Internal Charges:	80,000	0	Other interna	al is section 37 fur	nding.		
External Consulting:	0	0		pacts will be dete	ermined at the	time of co	nstruction
Sub Total:	803,270	0	award.				
HST Impact: _ Total Project Cost:	12,730	0					
	816,000						
OURCE(S) OF FUNDING	<u> </u>		Compo	onents			<u>Future</u>
unding Type	<u>Budget</u>					TOTAL	<u>Phases</u>
CA	530,400	0	0	0	0	0	C
ther Internal	285,600	0	0	0	0	0	C
TOTAL FUNDING	816,000				=	0	
TOTAL FUNDING	Pe	rsonnel Non	Personnel R	evenues Ex	penditures/(R		
TOTAL FUNDING	Pe	rsonnel Non \$0	Personnel Re	evenues Exp	penditures/(Re		
TOTAL FUNDING  DPERATING BUDGET II  DCA/LIFE CYCLE DETA	MPACT Pe				_		
TOTAL FUNDING  DPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA	MPACT Pe	\$0	\$0	\$0  Amount in	_	evenues)	
TOTAL FUNDING  DPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA  Name	MPACT Pe	\$0	\$0  Year Amount	\$0  Amount in Study	\$0	evenues)	
TOTAL FUNDING  DPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA	MPACT Pe	\$0	\$0	\$0  Amount in Study	\$0  Life Cycle	evenues)	
DPERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA  Name  Hard - Special Projects - C	MPACT Pe	\$0	\$0  Year Amount	Amount in Study  0 11,325,356	\$0  Life Cycle  Amount in S  Amount Incl	evenues)	
DERATING BUDGET II  DCA/LIFE CYCLE DETA  DCA  Name  Hard - Special Projects - C and Regional Land	MPACT  ILS  City Wide - Bike Lar	\$0  Mes on City	\$0 <b>Year Amount</b> 530,400  530,400	Amount in Study  0 11,325,356	\$0  Life Cycle  Amount in S	evenues)	

# Markham Centre Phase 1B Construction





# 2021 PROJECT FUNDING REQUEST FORM

Appendix Page 19

\$290,700

**Number: 21049** 

**Project Cost:** 

lelines essment  of the Civic C licy. Funding  iken Entrance Cycle Reserve	vestibule
of the Civic C licy. Funding	vestibule
of the Civic C licy. Funding	vestibule
of the Civic C licy. Funding	vestibule
of the Civic C licy. Funding	vestibule
licy. Funding	vestibule
licy. Funding	vestibule
Cycle Reserve	Study
	_
TOTAL	<u>Future</u> <u>Phases</u>
290,700	
290,700	
/(Revenues)	
)	
<u>cle</u>	
in Study:	868,800
	000,000
Incl HST	290 700
Incl HST the study	290,700
Ý	290,700



# 2021 PROJECT FUNDING REQUEST FORM

Appendiage Page PS

**Number: 21063** 

Project Name: Theotre	IIVAC Donlogon	- o <b> t</b>			Project C	ost:	\$2,000	0,000
Project Name: Theatre-	<del>-</del>	ient				Repa	ir/Replace	e
Commission: Corporate				Use	eful Life:	30	Pre App	proval:
Department: Asset Man	**			Category: N	Лаjor			
Project Mgr: Jason Vas			Cos	t Validation: T		estimat	e	
	2 3 4			Validation: C				
		DO TECTE		<del></del>				
THE PROPERTY OF THE STATE OF TH	project began in 20 uest for 2021. The 3 includes replacemend the building auton	19 with design & co 7 year old HVAC s at of the venues maj mation system (\$424	ystem is origina or HVAC equip	al to the building	ng and has b	een de	emed at tl	he end of
PROJECT COSTS (\$)	2021	E-4 Dl	NOTES					
	<u>2021</u>	Future Phases	Amount requ	ested is consist				
Cost/Quote:	1,806,800	0		remental operation week shut dov				
Internal Charges: External Consulting:	80,000 80,000	0	October 15,	2021. System	will be conr	nected 1	to UHS/M	IDE to
Sub Total:				heating & coo		sh air i	nto the T	heatre.
HST Impact:	1,966,800 33,208	0		timated at \$13,				
Total Project Cost:	2,000,000	0						
OURCE(S) OF FUNDIN	<u>G (\$)</u>		Compo	onents				Future
OURCE(S) OF FUNDIN	G (\$)  Budget		Compo	onents		Ţ	OTAL	Future Phases
		0	Compo	onents 0	0		<b>OTAL</b> 0	
unding Type	Budget	0	-		0			Phases
unding Type as Tax	Budget 1,908,800	•	0	0			0	Phases 0
as Tax perating Funded Life Cycle	Budget 1,908,800 91,200	•	0	0			0	0 0
as Tax perating Funded Life Cycle	1,908,800 91,200 2,000,000	o rsonnel Non Pe	0 0 ersonnel Re	0 0			0 0 0	0 0
unding Type as Tax perating Funded Life Cycle TOTAL FUNDING DPERATING BUDGET	1,908,800 91,200 2,000,000 Pe	o rsonnel Non Pe	0	0 0	0 Expenditur		0 0 0	0 0
unding Type  as Tax  perating Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET  DCA/LIFE CYCLE DET	1,908,800 91,200 2,000,000 Pe	o rsonnel Non Pe	0 0 ersonnel Re	0 0 evenues I	0 E <b>xpenditur</b>	es/(Re	0 0 0	0 0
as Tax perating Funded Life Cycle TOTAL FUNDING  DPERATING BUDGET DCA/LIFE CYCLE DET DCA	1,908,800 91,200 2,000,000 Pe	o rsonnel Non Pe	0 0 ersonnel Re	0 0 evenues F \$0	Expenditur Life (	es/(Re <sup>*</sup> \$0	0 0 0 venues)	Phases
unding Type  as Tax  perating Funded Life Cycle  TOTAL FUNDING  DPERATING BUDGET  DCA/LIFE CYCLE DET	1,908,800 91,200 2,000,000 Pe	rsonnel Non Pe	0 0 ersonnel Re	0 0 evenues I	Expenditur  Life (	es/(Re \$0  Cycle  nt in St	0 0 0 venues)	Phases  0 0 0
as Tax perating Funded Life Cycle TOTAL FUNDING  DPERATING BUDGET DCA/LIFE CYCLE DET DCA	1,908,800 91,200 2,000,000 Pe	rsonnel Non Pe	0 0 ersonnel Re	0 0 evenues F \$0	Expenditur  Life (  Amour	es/(Res)\$0  Cycle  Int in St	0 0 venues)	739,100 91,200
as Tax perating Funded Life Cycle TOTAL FUNDING  DPERATING BUDGET DCA/LIFE CYCLE DET DCA	1,908,800 91,200 2,000,000 Pe	rsonnel Non Pe	0 0 ersonnel Re	0 0 evenues F \$0	Expenditur  Life (	es/(Res)\$0  Cycle  Int in St	0 0 venues)	Phases  0 0 0
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# BUILDING MARKHAM'S FUTURE TOGETHER 2020 – 2023 Strategic Plan









# Summary

- In 2019, Sustainability & Asset Management conducted the design consultation phase to replace the HVAC systems and Building Automation System at Flato Markham Theatre.
- The HVAC equipment and BAS were original and initially installed in the 1980s. They are at the end of their service life.
- Heating and cooling supply to the existing and new HVAC systems will be by Markham District Energy via Unionville High School.
- Heating and cooling will soon be individually metered and billed for the building per agreement with School Board
- There is a need to improve energy efficiency for this facility and the newly designed systems will accomplish this requirement.





## **Project Details**

- Five (5) large existing air handling units will be disassembled inplace and new units assembled within their respective mechanical rooms.
- Multiple crane lifts to remove and install the units through existing openings will be required.
- The amount of work is very substantial and it is anticipated to take approximately 10 weeks. This will require a complete shut down of the building.





## Schedule

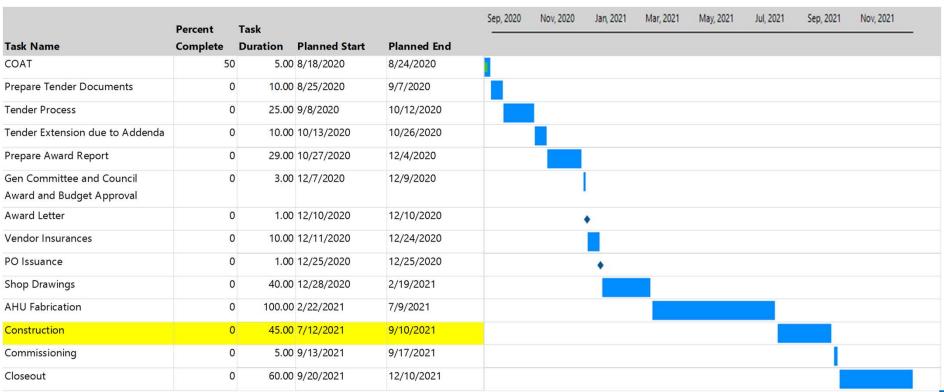
In consultation with Theater management and our consultant, the recommended schedule and impacts are as follows:

- Construction work is expected to take place beginning of July to mid-September of 2021.
- The time line above:
  - allows for sufficient factory fabrication time of the new units once procured (approximately 6 months lead time required)
  - is beneficial for moderating temperatures within the building during the HVAC shutdown (i.e. no very cold or very hot outdoor temperatures thereby saving the cost impact of temporary A/C or temporary heat)





## Potential Expedited Schedule





# BUILDING MARKHAM'S FUTURE TOGETHER 2020 – 2023 Strategic Plan



## Theatre Closure Impacts

- The Theatre must be temporarily closed to rehearsals and performances during the work due to:
  - public safety
  - construction noise/disturbance
  - no capability to control temperature and humidity to the precise levels that performances require
- Typical season net revenue loss is anticipated to be \$120,000
- During the shutdown, Theatre staff will have to be relocated to work in a suitable location within the Civic Centre.
- The Box Office would remain open for sales but might be required to temporarily relocate also to within the Civic Centre.
- In the event the Theatre re-opens to the public before July 2021 for events that are already booked, construction will begin 1 month later, as a contingency plan.



### BUILDING MARKHAM'S FUTURE TOGETHER 2020 – 2023 Strategic Plan



## Budget

- January 2020, a design (Class A) cost estimate was conducted based on complete drawings and specifications, which this budget request is based upon.
- Cost Estimate:

•	Construction -	\$ 1	,806,800
•	Consulting -	\$	80,000
•	HST Impact (on above) -	\$	33,200
•	Internal Charges -	\$	80,000
•	Total Project Cost	\$ 2	,000,000

- \$24,400 estimated annual energy efficiency savings (21% reduction)
- \$13,000 estimated one-time energy conservation incentives



Appendix 2 4 lage 26

(HAM	2021 PROJECT FUNDING REQUEST FORM	Number:	21071	
ne: SCRA De	Proj contamination Machine	ject Cost:	\$63,300	

Cost/Quote: 62,246 0 firefighting operation, it is standard procedure for firefighters to launder their bunker gear (jacket, pants, boots) at one of two laundry stations. However, SCBA gear is currently not decontaminated after each operation. Markham Fire Services would like to include the decontamination of SCBA gear after each operation as part of standard procedure. The decontamination practice reduces the risk of developing job related cancers. Cost of each decontamination machine unit is \$31,650.    Components   Future   Phases	Project Name: SCBA D	CCOntamination	viaciiiic						
Department: Fire & Emergency Services   Project Mgr: Adam Grant   Category: Minor   Category: Minor   Cost Validation: Third party estimate   Requirement Validation: Third party estimate   Requirement Validation: Other(specify in Notes)								New Asset/E	xpansion
Project Mgr: Adam Grant  Ward(s): ON		-				Ţ	Jseful Life:	10 Pre A <sub>1</sub>	pproval: $\square$
Ward(s):	Project Mgr: Adam Grant								
ROJECT COSTS (\$)  2021  Future Phases Cost/Quote: 62,246  Internal Charges: 0 0 0 0 1 two laundry stations. However, SCBA gear (jacket, pants, boots) at one of two laundry stations. However, SCBA gear is currently not decontaminated after each operation as part of standard procedure. The decontamination practice reduces the risk of developing job related cancers. Cost of Each decontamination machine unit is \$31,650.  PURCE(S) OF FUNDING (\$)  COMPONENTS  Budget  COSTON PUNDING (\$)  COMPONENTS  COMPONENTS  Budget  COMPONENTS  CALIFIE CYCLE DETAILS  DCA Name  Requirement Validation:  Other(specify in Notes)  Safe a Sustainable Community  Safe a Sustainable Community  Safe a Sustainable Community  Safe a Sustainable Community  NOTES  After cach firefighting operation, it is standard procedure for firefighting operation, it is standard procedure for firefighting operation, it is standard procedure for firefighting operation, with a standard procedure for the firefighting operation with a standard procedure for the firefighting operation with a st									
ETAILED DESCRIPTION (SCOPE OF PROJECT):  equest for 2 machines to decontaminate self contained breathing apparatus (SCBA) after exposure to harmful toxins/chemicals. The life contained cleaning process removes residue from soot and other toxins absorbed by SCBA gear (harness, facepiece, and air linder) in as little as 5 minutes, and is effective on steel, composite, rubber and steel.  UILDING MARKHAM'S FUTURE TOGETHER:  Safe & Sustainable Community    Supplied of School of Community   Supplied of Community									
request for 2 machines to decontaminate self contained breathing apparatus (SCBA) after exposure to harmful toxins/chemicals. The ff contained cleaning process removes residue from soot and other toxins absorbed by SCBA gear (harness, facepiece, and air dinder) in as little as 5 minutes, and is effective on steel, composite, rubber and steel.    Continuity   Continui					1			,	
He contained cleaning process removes residue from soot and other toxins absorbed by SCBA gear (harness, facepiece, and air dinder) in as little as 5 minutes, and is effective on steel, composite, rubber and steel.    Continuity   Continuity   Continuity   Continuity		,							
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After each firefighting operation, it is standard procedure for firefighters to launder their bunker gear (jacket, pants, boots) at one of two laundry stations. However, SCBA gear is currently not decontaminated after each operation. Markham Fire Services would like to include the decontamination of SCBA gear after each operation as part of standard procedure. The decontamination practice reduces the risk of developing job related cancers. Cost of each decontamination machine unit is \$31,650.    DURCE(S) OF FUNDING (\$)	BUILDING MARKHAM	I'S FUTURE TOG	ETHER:	Safe & S	ustainable C	ommunity			
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Sub Total:	•	0		0					
HST Impact:   1,096   0	Sub Total:	62 246		0					
Total Project Cost:		<del></del>			practice re	duces the risk	of developing	g job related can	
Components   Future   Phases	•	<u> </u>		0	each decor	ntamination ma	chine unit is	\$31,650.	
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Non Personnel   Study   Stud	OLIDCE(S) OF FLINDIN	(\$)			Com	ponents			
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# MARKHAM 2021 PROJECT FUNDING REQUEST FORM

Appendiage Page 20

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Project Name: 1 :h	Callantiana			<b>Project Cost:</b>	\$2,831,400		
Project Name: Library (				Rep	oair/Replace		
Commission: Community			J	Jseful Life: 7	Pre Approval:		
Department: Markham F			Category:	Annual	11		
Project Mgr: <u>Catherine I</u>			Cost Validation:				
Ward(s): $CW \boxed{\bullet} 1$	2 3 4 4		Requirement Validation:	-	 nent		
5 🗆	6 7 8		Troquitonioni ( unuunioni				
<b>DETAILED DESCRIPTIO</b> Collections are the Library's	`						
acquisition of new materials demand in Markham. In a 2 borrowing materials as the # demand. BUILDING MARKHAM	, including those in 1020 survey of 2,52 I Library service.	print and non-print 1 residents, 94% inc A constant stream of	formats and non-English ladicated that it was important	nguage materials, v t that MPL provide: o keep up with cust	which are in high s books and valued		
DDO IECT COCTC (\$)	2021		NOTES				
PROJECT COSTS (\$)	<u>2021</u>	Future Phases	Preliminary allocations (i				
Cost/Quote:	2,782,440	0	\$960K/ Audio-visual \$31				
Internal Charges: 0 External Consulting: 0			Microfilms \$3.5K/ Periodicals \$100 \$937K/ Processing Supplies \$180K.				
		0	based on material availability, customer needs & fi				
Sub Total:	2,782,440	0	English materials (Multili				
HST Impact: 48,971		0	existing E-Resources (when invoiced in USD) based				
Total Project Cost:	2,831,400		rate of 1.37 (\$537K USD	\$). Pre-approval re	equest is \$1,598,20		
SOURCE(S) OF FUNDING	G (\$)		Components		——— Futur		
Funding Type	<u>Budget</u>	Collections			TOTAL Phas		
Operating Funded Life Cycle	2,831,400	2,831,400	0 0	0 2,8	831,400		
TOTAL FUNDING	2,831,400			<u></u>	831,400		
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				— Amount in S			
				Amount Incl	1 HST 2,831,40		
				Year in the	study 202		
DCA and/or Life Cycle	: Explain if there is	s a change in the yea	ar and/or cost:				

#### 2021 LIBRARY COLLECTIONS BUDGET 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;
- 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 and
  supporting education.

#### **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 for 2021:**

Books & Subscriptions	\$960,000
Audiovisual	\$315,000
French Books	\$25,000
Multilingual	\$300,000
Microfilms	\$3,500
Periodicals	\$100,000
eResources	\$937,000
Processing & Supplies	\$180,000

#### Circulation in 2019 VS 2018:

Circulation	2019	2018	%+/-
Physical Circulation	4,845,118	4,905,024	(1.2)
Digital Circulation (eCirc)	731,177	555,728	31.6
Total Circ (incl. eCirc)	5,576,295	5,460,752	2.1

#### **Electronic circulation over the past 5 years:**

Years	2011	2012	2013	2014	2015	2016	2017	2018	2019
eCirculation	67,500	93,651	148,235	164,791	246,864	310,208	370,779	555,728	731,177
%Increase		38.7%	58.3%	11.2%	49.8%	25.66%	19.53%	49.88%	31.57%

As of June 2020, the Library is seeing an increase of 70% in digital circulation over the same period in 2019, a huge increase due in part to COVID 19.

#### **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.

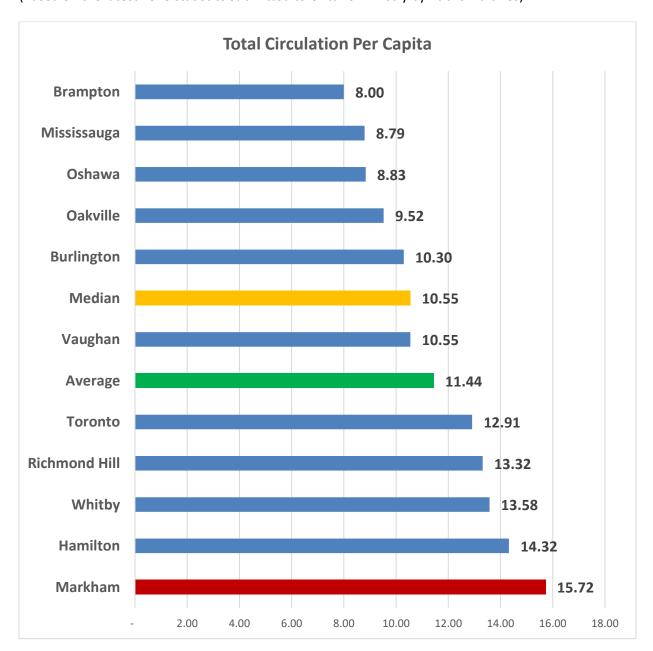
	2019
Importance	9.20/10
Satisfaction	8.03/10
Gap	1.17

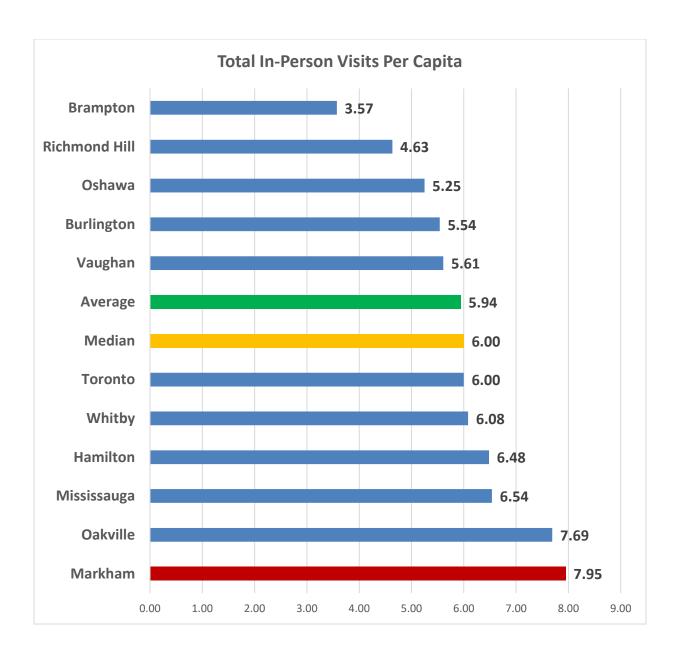
#### **LANGUAGES COLLECTED:**

• 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 2018 statistics submitted to Ontario Ministry by Public Libraries)







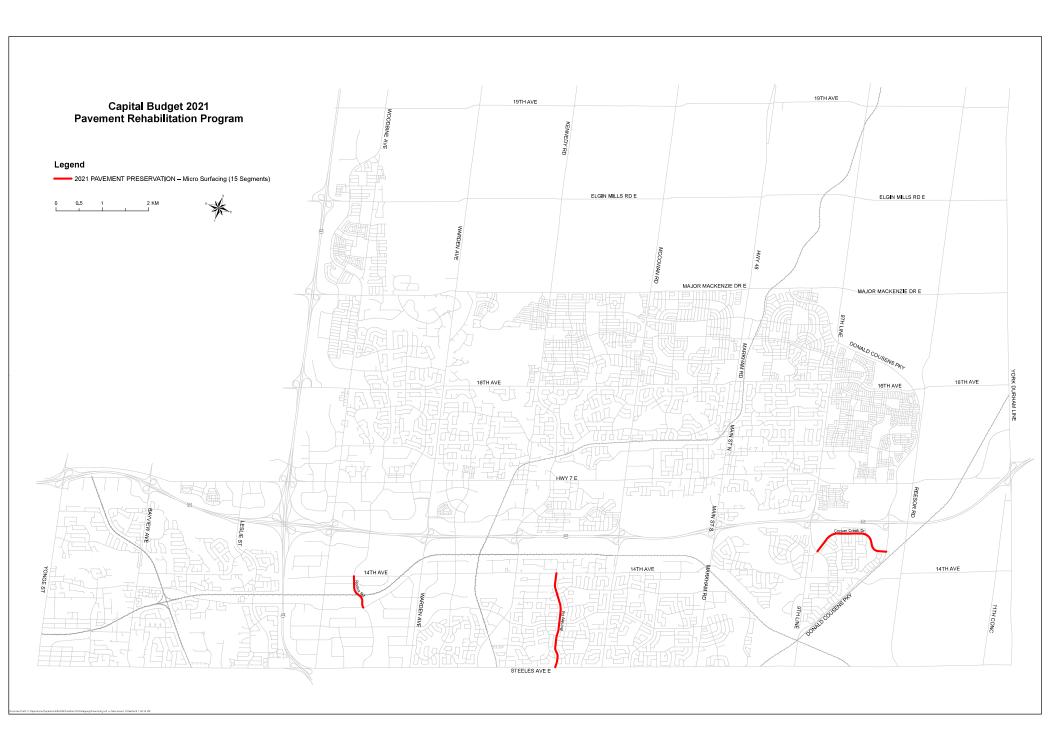
## 2021 PROJECT FUNDING REQUEST FORM

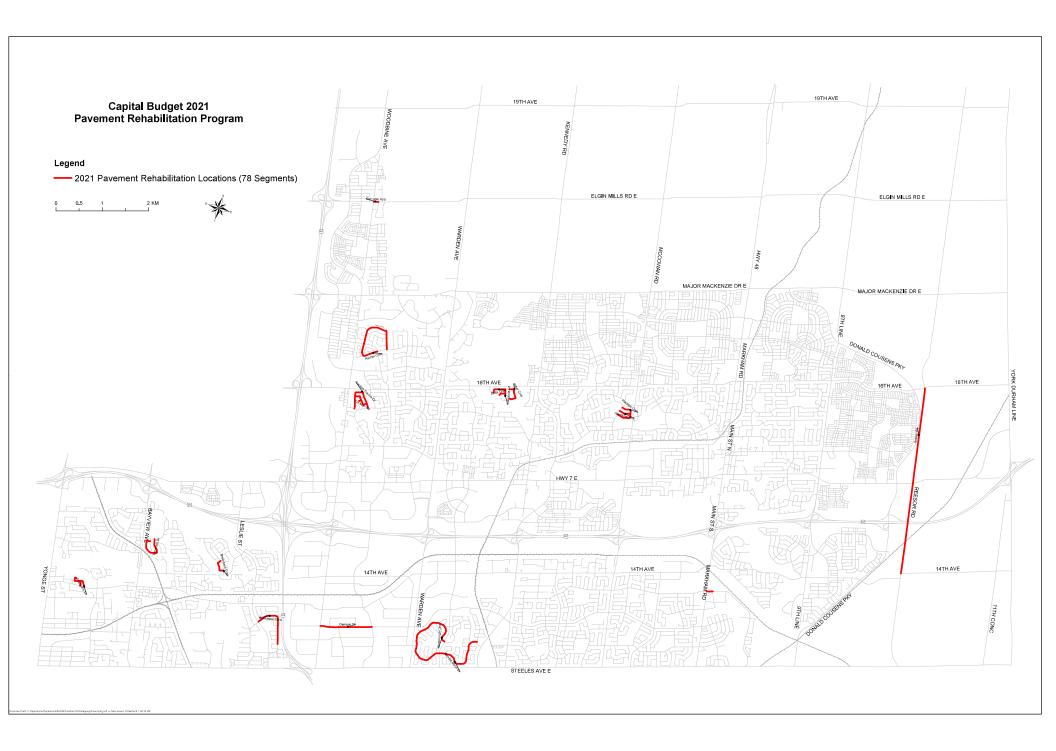
Appendage Page 99

**Number: 21101** 

Project Name: Achhair k	· •				Project (	Cost:	\$6,81	5,800
Project Name: Asphalt R						Repair	/Replace	e
Commission: Community				Ţ	Jseful Life:	20	Pre App	proval: 🔽
Department: Operations				Category:	Minor			
Project Mgr: Zoyeb Vah			Co	st Validation:	Recent awa	rds		
	2 3 4		Requiremen	nt Validation:	Condition a	ssessmer	nt	
DETAILED DESCRIPTION	$\begin{array}{c c} & 6 & 7 & 8 \\ \hline \end{array}$	DOJECT).						
Asphalt resurfacing of roads overall goal is to maintain ar designed to extend pavemen testing, route and seal, steel,  BUILDING MARKHAM'	throughout the Cit n acceptable pavem at life and reduce ov and AC index. Van	y utilizing a pavemo ent condition index verall maintenance or rious strategies are u	and user satis	sfaction by imad network. On the specific bases	plementing c ther work inc	ost effect cludes int	ive strat erlock, r	egies
PROJECT COSTS (\$)	2021	Future Phases	NOTES					
	6,610,428	()		surfacing of ap				
Cost/Quote:	89,002	0		6.8km of four mparable to la				
Internal Charges: External Consulting:	0	0	backlog in this program. Laser condition survey conducte				eted bi-	
Sub Total:	6,699,430	0		dicates 2019 p e road networ				
HST Impact:	116,344		Amount req	uested is cons				
Total Project Cost:	6,815,800	0	Study updat	te.				
=								
SOURCE(S) OF FUNDING	<u>G (\$)</u>		Comp	onents				<b>Future</b>
Funding Type	<u>Budget</u>					<u>T(</u>	<u>OTAL</u>	<u>Phases</u>
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Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA	484,200  6,815,800  Per MPACT	o rsonnel Non Pe	rsonnel F	Revenues \$0	Expenditu	res/(Rev	0 0 enues)	
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA	484,200  6,815,800  Per MPACT	rsonnel Non Pe	rsonnel F	Revenues \$0	Expenditure  Life  — Amou	res/(Reve \$0	0 0 enues)	0
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA  DCA	484,200  6,815,800  Per MPACT	rsonnel Non Pe	rsonnel F	Revenues \$0	Expenditus  Life  Amou	res/(Reve \$0 Cycle	0 0 enues) dy: 6 ST 6	,815,800
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA	484,200  6,815,800  Per MPACT	rsonnel Non Pe \$0 \$ Yea	rsonnel F	Revenues \$0  Amount in Study	Expenditus  Life  Amou	res/(Reve \$0 Cycle ant in Stu-	0 0 enues) dy: 6 ST 6	,815,800 ,815,800
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	484,200  6,815,800  Per MPACT	rsonnel Non Pe \$0 \$ Yea	rsonnel F	Revenues \$0  Amount in Study	Expenditus  Life  Amou	res/(Reve \$0 Cycle ant in Stu-	0 0 enues) dy: 6 ST 6	,815,800 ,815,800
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	484,200  6,815,800  Per MPACT	rsonnel Non Pe \$0 \$ Yea	rsonnel F	Revenues \$0  Amount in Study	Expenditus  Life  Amou	res/(Reve \$0 Cycle ant in Stu-	0 0 enues) dy: 6 ST 6	,815,800 ,815,800
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	484,200  6,815,800  Per MPACT	rsonnel Non Pe \$0 \$ Yea	rsonnel F	Revenues \$0  Amount in Study	Expenditus  Life  Amou	res/(Reve \$0 Cycle ant in Stu-	0 0 enues) dy: 6 ST 6	,815,800 ,815,800
Operating Funded Life Cycle  TOTAL FUNDING  OPERATING BUDGET I  DCA/LIFE CYCLE DETA DCA Name	484,200  6,815,800  Per MPACT	rsonnel Non Pe \$0 \$ Yea	rsonnel F	Revenues \$0  Amount in Study	Expenditus  Life  Amou	res/(Reve \$0 Cycle ant in Stu-	0 0 enues) dy: 6 ST 6	,815,800 ,815,800

Project	Asphalt Resurfacing
2021 Capital Request	\$6,815,800
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.
History	n/a
Future Phases	This funding is requested each year.
Total Project Cost	n/a
Related Projects	Parking Lot Rehabilitation, Localized Repairs – Concrete/Asphalt
Related Maps	\Roads\Back Up\Asphalt Rehab\2021 Pavement Rehabilitation Locations.pdf
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.





## Appendiage Page 40

#### 2021 Road Rehabilitation Program

Street Name	Road-Segment ID	<u>From</u>	<u>To</u>	Length	Width	Area
Captain Francis Drive	01473 - 001,002,003	Entirety		872	8	6976
Colonel Marr Road	02028 - 001,002	Entirety		388.85	8	3110.8
Bliss Court	00949 - 001	Entirety		50	8.5	425
Forester Crescent	10693 - 001 to 007	Entirety		1145	8.5	9732.5
Rachel Crescent	10685 - 001 to 005			594	10.5	6237
Ritter Crescent	07811 - 001	Entirety		464	8	3712
Delhi Crescent	02534 - 001, 002	Entirety		640	8	5120
Caledonia Court	01376 - 001	Entirety		60	8.5	510
Leahill Drive	05541 - 001	Entirety		100	6	600
Deanbank Drive	02461 - 001	Entirety		177	3.5	619.5
Deanbank Drive	02461 - 002	Entirety		222	8	1776
		·				
Simonston Boulevard East	08468 -					
	014,016,026,001,004,012,019,024	Dersingham Crescent North	Don Mills	1054	10.5	11067
Brewsland Crescent	01112 - 001	Entirety		329	8	2632
Tamarack Drive	09172 - 001, 002	Entirety		839	8	6712
Elgin Mills Road East	10545 - 013	Victoria Square Boulevard	Warden Avenue	2049	9	18441
						0
Reesor Road	10634 - 004,008	16th	407 ETR	2900	9	26100
						0
Harvest Moon Drive	04268 - 001 to 009	Entirety		1276	9	11484
						0
Riseborough Circuit	07803 - 001 to 022	Entirety		2118	9	19062
						0
Havagal Crescent	04294 - 001, 002	Entirety		655	8	5240
Woodlawn Road	10421 - 001	Entirety		247	8	1976
						0
Denison Street	02585 - 003,006,017,022	Esna Park	Woodbine Avenue	1120	13.5	15120
						0
Kirkham	12009 - 001	Markham Road	New Delhi Drive	135	16	2160

 Total
 17.43485
 158812.80

 km
 square meters



## 2021 PROJECT FUNDING REQUEST FORM

Appendix Page 40

Number: 21113

Dariest Manage B. 11		•			Project (	Cost: \$	6678,900
Project Name: Parking I		ion				Repair/Re	eplace
Commission: Community	y & Fire Services			Į	Jseful Life:	20 Pro	e Approval:
Department: Operations				Category:			F F · · · · · · ·
Project Mgr: Zoyeb Vah	nora		,	Cost Validation:		rde	
Ward(s): CW ✓ 1	2 3 4			nent Validation:			
5 🗆	6 7 8		Kequiren	ient vandation.	Condition a	ssessmem	
ETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):					
Complete rehabilitation of sound asphalt infrastructure, as					al and replac	ement of co	oncrete, interlock
BUILDING MARKHAM	'S FUTURE TOG	ETHER: Safe	& Sustainable	Community			
PROJECT COSTS (\$)	<u>2021</u>	Future Phases	NOTES		4114	(10,000 -	
Cost/Quote:	667,139	0					qm), and German the program. The
Internal Charges:	0	0	parking l	ots are in a state	of good repa	ir.	
External Consulting:	0	0	Unit cost is consistent with recent award plus infl Amount requested is consistent with the 2020 Life				
Sub Total:	667,139	0	Study up		sistent with th	ie 2020 Liie	Cycle Reserve
HST Impact:	11,742	0					
Total Project Cost:	678,900	0					
OURCE(S) OF FUNDING	G (\$)		Cor	nponents			
unding Type	Budget	Miller Yard	<u>Sabis</u>	ston		TOTA	<u>Future</u> AL Phases
perating Funded Life Cycle	678,900	641,400	37,500	0	C	678,90	00 0
TOTAL FUNDING	678,900					678,90	00 0
OPERATING BUDGET I	MPACT Per		Personnel	Revenues	Expenditu	·	ies)
		\$0	\$0	\$0		\$0	
CA/LIFE CYCLE DETA	<u>AILS</u>						
<u>DCA</u> Name		,	Year Amou	Amount in nt Study	<u>Life</u>	<u>Cycle</u>	
Name			Tan Amou	nt Study	— Amou	nt in Study:	1,475,600
					Amou	nt Incl HST	678,900
					Year	in the study	2021
DCA and/or Life Cycle	· Explain if there is	a change in the v	vear and/or co	st:			
		a change in the j					
75 Clegg deferred until expansion.	•	al is received. Mi	illiken Mills C	C deferred to 20	22 due to po	tential comn	nunity centre
	•	ıl is received. Mi	illiken Mills C	C deferred to 20	22 due to po	tential comn	nunity centre
	•	ıl is received. Mi	illiken Mills C	C deferred to 20	22 due to po	tential comn	nunity centre
	•	ıl is received. Mi	illiken Mills C	C deferred to 20	22 due to po	tential comn	nunity centre

Project	Parking Lot Rehabilitation			
2021 Capital Request	\$678,900			
Funding Source	Life Cycle Reserve			
Description of Program	Asphalt resurfacing of City owned parking lot throughout the City. The overall goal is to maintain an acceptable pavement condition and user satisfaction by implementing timely rehabilitation to extend pavement life and reduce overall maintenance and reconstruction costs of the City's assets.			
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. 588/17: Asset Management Planning for Municipal Infrastructure outline asset management requirement related to Municipal infrastructure.			
History	n/a			
Future Phases	This funding is requested each year.			
Total Project Cost	n/a			
Related Projects	Localized Repairs - Parking Lots			
Related Maps	n/a			
Alignment to the Strategic Plan	Properly paved and well maintained parking lots help reduce accidents and promotes safe movement of traffic reducing within City owned facilities. Contracts within this program call for reharvesting and recycling of construction materials. Strategies include warm mix designs which lowers emissions and utilizes recycled aggregate.			



## 2021 PROJECT FUNDING REQUEST FORM

Appendage Page 49

\$1,017,600

**Number:** 21119

**Project Cost:** 

	Block Pri	ıning Initiative -	Year 2 of 3					
Commissis						Repair/R	eplace	<u> </u>
		& Fire Services		1	Useful Life:	0 P	re Ap <sub>l</sub>	oroval: 🗹
Department: Operations - Parks Project Mgr: Miles Peart			Category:	Major				
			·	Cost Validation:	Third party	estimate		
Ward(s):		2 3 4		Requirement Validation:				
		6 7 8		-				
		ON (SCOPE OF P	· · · · · · · · · · · · · · · · · · ·					
damage resistand tree pruning of 2	ce and reduce 3,333 trees		ints which currently ontracted services.	capital project to prune City y are over 2,700 per year. T Sustainable Community				
PROJECT COS	STS (\$)	2021	Future Phases	NOTES				
			·	Phase 1 is 95% complete				
	st/Quote:	1,000,000	777,127	in the neighborhoods whitees have been pruned the				
Internal ( External Co	•	0	0	addressed as part of the r	egular operat	ing budget.	The c	perating
	•			budget is being increased ensure a total of \$150K a				
	ub Total:	1,000,000	777,127 13,677	2023. Currently, the tree				
пот Total Proje	Impact:	<u> </u>		backlog led to this proact				
Totaliloje	=	1,017,600	790,800					
SOURCE(S) OF	F FUNDING	<u>G (\$)</u>		Components				<b>Future</b>
Funding Type		Budget				TOT	AL	Phases
Гах		1,017,600	0	0 0	(	0	0	790,800
TOTAL FUNI	DING	1,017,600					0	790,800
OPERATING I	DIIDCET I	MPA CT Pe	rsonnel Non Pe	ersonnel Revenues	Expenditu	res/(Reven	ues)	
OPERATING I	DUDGET I	WIFACI	\$0	\$0 \$0		\$0		
DCA/LIFE CY	CLE DETA	AILS						
<u>DCA</u>				Amount in	<u>Life</u>	Cycle Cycle		
Name			Ye	ar Amount Study	— Amou	ant in Study	. $ abla$	
						•	_	
						int mer mo	· L	
					Voor	in the study	,	
		: Explain if there is			Year	in the study	/	
					Amou	int Incl HS7	_	

**Project: Block Pruning 3 Year Project** 

**Total Project Cost Table** 

		Past Projects	Current	Future	
	Project Number(s)	(\$)	Project (\$)	Projects (\$)	Total (\$)
Project Component 1	20197		\$ 1,244,396		\$ 1,244,396
Project Component 2			\$ 1,017,600		\$ 1,017,600
Project Component 3			\$ 790,804		\$ 790,804
Total (\$)		\$ -	\$ 3,052,800	\$ -	\$ 3,052,800
Description of Project What was completed in the past?	3 year capital project to prune 70% of all City trees to improve storm damage resistance and reduce residents complaints which currently are over 2,000 ACRs per year.  Year 1 program was 7 complete blocks which represented the highest risk trees. The				
Include timeline of works done.		•	•	_	t iisk tiees. Tile
Current project objective	year 1 program will be 100% complete by December 31, 2020.  Year 2 of the program will be to complete 6 complete blocks which represent the next highest risk trees. The goal is to start in late fall and be complete by June 1, 2021.				
Description of future work required. Include estimated timing.	Complete block pruni	ing of map grids	E5,G4,G5,H6,J4	,J5 by June 1, 20	21

## Neighbourhood Tree Maintenance Project 2020, 2021 and 2022 Grids







Project Name: Corporate Fleet Replacement - Non-Fire

## 2021 PROJECT FUNDING REQUEST FORM

Appendiage Page 49

\$1,620,700

DING REQUEST FORM Number: 21140

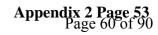
**Project Cost:** 

						Repair/Repl	ace
Commission: Community	& Fire Services			Ι	Jseful Life:	5 Pre A	Approval:
Department: Operations - Fleet				Category:			
Project Mgr: Raymond L	aw/Peter Englezak	os	~	•			
Ward(s): CW ✓ 1	2□ 3□ 4□			ost Validation:		-	
5	6□ 7□ 8□		Requireme	ent Validation:	Multiple(sp	ecify)	
DETAILED DESCRIPTIO		ROIFCT).					
2021 Annual Fleet Replacem			onted Cornor	ate Fleet Polic	v Guidelines.	Life cycle cos	ting targets
optimal replacement interval contained in this program ha program. Total units - 31 uni	s (ORI) which iden we reached or surpa	tifies the most cos	t effective tin	ne period for re	placement. A	ll vehicles and	equipment
BUILDING MARKHAM'S	S FUTURE TOGI	ETHER: Safe &	Sustainable C	ommunity			
PROJECT COSTS (\$)	2021	Future Phases	NOTES				
Cost/Quote:	1,592,680	0		varies - 4 to 12 (\$53k) include	•	• 1	
Internal Charges:	1,392,000	0		(\$33k) iliciude lation- Most re			
External Consulting:	0	0	Requireme	ent validation -	Condition as	sessment, vehi	cle reliability
_				me, & operatin			nis program vailable at time
Sub Total:	1,592,680	0		cnased with the e providing ma			
HST Impact:	28,031	0	emissions.		MIIIIZOG IGOI	conomy with	
Total Project Cost:	1,620,700	0					
SOURCE(S) OF FUNDING	<del>G (\$)</del>		Com	ponents			
Funding Type	<u>Budget</u>	Licensed	Non License	ed Non F	Fleet	TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	1,620,700	727,633	840,131	52,936	(	1,620,700	0
TOTAL FUNDING	1,620,700					1,620,700	
	Per	rsonnel Non Po	ersonnel	Revenues	Expenditu	es/(Revenues	)
OPERATING BUDGET II	MPACT		60	\$0	•	\$0	,
DCA/LIFE CYCLE DETA	<u>ILS</u>	,		T V		+ -	
<u>DCA</u>				Amount in	<b>Life</b>	Cycle	
Name		Ye	ar Amoun	t Study	— Amou	nt in Study:	2,440,500
						nt Incl HST	2,416,900
						l I	
					Y ear	in the study	2021
DCA and/or Life Cycle:	Explain if there is	a change in the ye	ar and/or cost	:			
. 1							

#### 2021 Corporate Fleet Replacement - Non-Fire

Asset ID	Inventory Description	Model	Mileage (km)	Usage (hours)	Facility	Category	2021 Updated Cost	Project Notes
1232	ONE TON CREWCAB FLATBED DIESEL-C3500 SILV	2013	151,087		OPERATIONS-Licensed	Licensed	62,261	
1240	COMPACT SUV FWD-ESCAPE	2012	80,659		OPERATIONS-Licensed	Licensed	28,854	Deferred from 2020 to 2021
1243	SERVICE BODY SIGN TRUCK C/W POST PULLER-F 550	2013	121,123		OPERATIONS-Licensed	Licensed	90,048	
1421	3.5 YD ARTICULATING LOADER -721 D	2014		9,502	OPERATIONS-Non Licensed	Non Licensed	280,908	
								Project 18247 - life extended, deferred to 2021
1426	TRACTOR 4 WD WITH CAB-6320	2003		7,011	OPERATIONS-Non Licensed	Non Licensed	160,092	to be re-submitted
1913	90 ' V BIN STOCKPILING CONVEYOR-	2010		4,370	OPERATIONS-Non Licensed	Non Licensed	90,145	Deferred from 2020 to 2021
1973	TRAILER-TRAILER	2009			OPERATIONS-Licensed	Licensed	7,632	Deferred from 2019 to 2021
1977	3 PT HITCH PTO DRIVEN SANDER-1140P	2009			SIDEWALK-Non Licensed	Non Licensed	4,897	
3321	3/4 TON 4X4 PICK UP C/W 8` SNOW PLOW	2011	121,960		OPERATIONS-Licensed	Licensed	E1 270	Previously approved in 2019 (Project 19207) - to be resubmitted in 2021 due to budget shortfall; Updated price based on 090-T-20 - \$50,370 plus 2% inflation
3327	FULL SIZE PICKUP 4X4 WITH 8` ARCTIC PLOW-F250	2013	117,208		OPERATIONS / PARKS-Licensed	Licensed	42,838	\$30,370 pius 2% Illiation
3327	FULL SIZE PICKUP 4X4 WITH 8 ARCTIC PLOW-F250  FULL SIZE PICKUP 4X4 WITH 8 ARCTIC PLOW-F250	2013	117,208		OPERATIONS / PARKS-Licensed  OPERATIONS / PARKS-Licensed	Licensed	42,838	
3328	ONE TON CREW CAB FLATBED DIESEL-C3500 SILV	2013	81,822		OPERATIONS / PARKS-Licensed  OPERATIONS-Licensed	Licensed	42,838 62,242	
3344	CREW CAB DIESEL 9` DUMP	2010	68,384		OPERATIONS-Licensed	Licensed	·	Previously approved in 2019 (Project 19207) - to be resubmitted in 2021 due to budget shortfall; Updated price based on 090-T-20 - \$40,566, plus 2% inflation
3376	16 ' CUBE VAN	2008	93,309		OPERATIONS-Licensed	Licensed	51 328	Previously approved in 2019 (Project 19207) - to be resubmitted in 2021 due to budget shortfall; Updated price based on 090-T-20 - \$50,322 plus 2% inflation
3443	56 HP 2 WHEEL DRIVE TRACTOR C/W CAB-5225	2007		3 622	OPERATIONS-Non Licensed	Non Licensed		Deferred from 2019 to 2021
3458	4 X 4 TRACTOR LOADER	2007		,	OPERATIONS-Non Licensed	Non Licensed	127,500	Previously approved in 2019 (Project 19207 - \$85,200) - to be resubmitted in 2021 due to budget shortfall; Updated price based on 108-Q-20 - \$125k, plus 2% inflation
3471	ZERO TURN 60" DIESEL POWERED-ZD21F ZERO TURN	2012		1,532	OPERATIONS-Non Licensed	Non Licensed	15,814	Deferred from 2020 to 2021
3472	ZERO TURN 60" DIESEL POWERED-ZD21F ZERO TURN	2012		1,306		Non Licensed		Deferred from 2020 to 2021
3493	ZERO TURN MOWER 60" DIESEL POWERED-ZD21F ZERO TURN	2012		1,676	OPERATIONS-Non Licensed	Non Licensed	15,814	Deferred from 2020 to 2021
3494	ZERO TURN MOWER 60" DIESEL POWERED-ZD21F ZERO TURN	2012		1,460	OPERATIONS-Non Licensed	Non Licensed	15,814	Deferred from 2020 to 2021
4036	ZERO TURN 60" REAR DISCHARGE DIESEL -TURN	2011		1,642	OPERATIONS-Non Licensed	Non Licensed	16,501	Deferred from 2019 to 2021
4141	ZERO TURN 60" DIESEL POWERED-ZD21F ZERO TURN	2012		1,682	OPERATIONS-Non Licensed	Non Licensed	15,814	Deferred from 2020 to 2021
4902	ELECTRIC POWERED UTILITY VEHICLE-CARRYALL 1	2011			OPERATIONS-Non Licensed	Non Licensed	15,347	
5350	FULL SIZE PICK UP-GMC SIERRA 1500	2008	15,451	-	MUSEM-1-Licensed	Licensed	31,485	Deferred from 2019 to 2021
6083	COMPACT VAN FWD-GRAND CARAVAN	2013	110,015		ENFOR LIC-Licensed	Licensed	25,284	
6084	COMPACT VAN FWD-GRAND CARAVAN	2013	96,027		ENFOR LIC-Licensed	Licensed	25,284	
6085	COMPACT VAN FWD-GRAND CARAVAN	2013	231,127		ENFOR LIC-Licensed	Licensed	25,712	
6093	COMPACT SUV FWD HYBRID-ESCAPE	2011	131,089		ENFOR LIC-Licensed	Licensed	45,365	Deferred from 2019 to 2021
6095	COMPACT VAN FWD-GRAND CARAVAN	2012	76,312		CLERK-1-Licensed	Licensed	26,994	Deferred from 2019 to 2021
6136	COMPACT CARGO VAN-GRAND CARAVAN	2013	193,246		ENFOR LIC-Licensed	Licensed	25,284	
6139	COMPACT SUV FWD -ESCAPE	2013	99,072		ENFOR LIC-Licensed	Licensed	28,854	
All	Operation Non Fleet < \$5,000 or Misc	2020			OPERATIONS- Operation Non Fleet < \$5,000 or Misc	Operation Non Fleet < \$5,000 or Misc	52,020	
						Total Pre-Tax	1,592,680	
						HST impact	28,031	

HST impact 28,031
Total Project Cost 1,620,712
Rounded Off - Project Cost 1,620,700





### 2021 PROJECT FUNDING REQUEST FORM

**Number:** 21177

Project Name of the Control of		Project (	Cost:	\$1,557,100
Project Name: Corporate Capital Contingency  Commission: Corporate Wide  Department: Corporate Wide  Project Mgr:  Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □  5 □ 6 □ 7 □ 8 □  DETAILED DESCRIPTION (SCOPE OF PROJECT):	Category: Cost Validation: Requirement Validation:	Other(speci	0 fy in N	
otal amount of contingency for 2021 applicable capital projects.				

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

PROJECT COSTS (\$)	<u>2021</u>	<b>Future Phases</b>
Cost/Quote:	1,557,093	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	1,557,093	0
HST Impact:	0	0
Total Project Cost:	1,557,100	0

### **NOTES**

Other Internal funding breakdown:

\$8,960 Non-DC Growth, \$3,800 Waterworks reserve, \$2,510

Development fee reserve

SOURCE(S) OF FUNDING		<u>Future</u>					
Funding Type	<u>Budget</u>					TOTAL	Phases
DCA	1,206,461	0	0	0	0	0	0
Gas Tax	182,400	0	0	0	0	0	0
Operating Funded Life Cycle	77,600	0	0	0	0	0	0
Other Internal	15,270	0	0	0	0	0	0
Parks Cash-in-Lieu	70,169	0	0	0	0	0	0
Tax	5,200	0	0	0	0	0	0
TOTAL FUNDING	1,557,100				=	0	0

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

Appendix 2 Page 54

DCA | Year | 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:



Report to: General Committee Meeting Date: Oct 5, 2020

**SUBJECT**: Contract Extension for Wide Area Network (WAN)

Connectivity and Internet Services

PREPARED BY:

Sugun Rao, Ext. 4868

Rosemarie Patano, Ext. 2990

#### **RECOMMENDATION:**

1. That the report entitled "Contract Extension for Wide Area Network (WAN) Connectivity and Internet Services" be received;

2. That the contract for WAN Services and Internet Services be extended for two (2) years (October 1, 2020 - September 30, 2022) to Rogers Communications at 11.6% discounted rate, in the amount of \$577,814.44, inclusive of HST, broken down as follows;

•	October 1, 2020 – December 31, 2020	\$ 72,226.81
•	January 1, 2021 – December 31, 2021	\$288,907.22
•	January 1, 2022 – September 30, 2022	<u>\$216,680.41</u>
	Total (2 years)	\$577,814.44

3. That the contract for Internet Services with higher bandwidth (increasing from 500Mbps to 600Mbps) be extended for two years (October 1, 2020 - September 30, 2022) to Bell Canada at the existing 2019 rate, in the amount of \$79,006.46 inclusive of HST, broken down as follows;

•	October 1, 2020 – December 31, 2020	\$ 9,875.81
•	January 1, 2021 – December 31, 2021	\$ 39,503.23
•	January 1, 2022 – September 30, 2022	\$ 29,627.42
	Total (2 years)	\$ 79,006.46

- 4. That the WAN Services from Rogers and the two Internet Services from Rogers and Bell to be funded from operating budget account# 400-404-5108 in amount of \$656,820.90 (inclusive of HST) over a two (2) year period;
- 5. That the tendering process be waived in accordance with Purchasing Bylaw 2017-8, Part II, Section 7 (1) (c) which states "when the extension of an existing contract would prove more cost-effective or beneficial";
- 6. AND THAT Staff be authorized and directed to do all things necessary to give effect to this resolution.

#### **PURPOSE:**

To exercise the option to extend contract 339-R-09 for Dual Redundant Internet Services and Wide Area Network (WAN) for an additional two (2) year term (October 01, 2020 to September 30, 2022) with Rogers Communications and Bell Canada.

#### **BACKGROUND:**

In 2009, the City of Markham awarded Internet Services and Wide Area Network (WAN) Connectivity via contract 339-R-09 to Rogers Communications and Bell Canada with Staff recommendations for 40 Mbps Internet Services (which was later upgraded to 200Mbps) and a managed 1 Gigabit Fibre connectivity solution to connect 34 City and Library sites, as well as a managed 10 Gigabit Fibre connectivity between the Civic Centre and 8100 Warden Avenue with Rogers Communications, and 500 Mbps Internet Services with Bell Canada. The fibre WAN connectivity provides the architectural and technical viability needed in order to meet the demands of delivering services for the City's residents from all City facilities. Accordingly, it has enabled the City to deploy key business applications across the network such as Voice over Internet Protocol (VoIP) for telecommunication, serving enterprise Geographic Information System applications over the internet, Closed Circuit Television (CCTV) and Supervisory Control and Data Acquisition (SCADA) capabilities for Waterworks, automated software deployment across the city, and for Automated Vehicle Location (AVL) for City fleet.

In addition, the City has been and will continue to provide enhanced self-service capability through the portal including recreation program registration, audio (and content) streaming of all Committee and Council meetings to the public, and free wireless public internet access in selected City facilities, among others. As City staff need to access higher bandwidth on a day-to-day basis to perform their duties (while on site or working from home) and the City continues to provide increased access to services through technology, the reliability and affordability of the technology infrastructure becomes increasingly important.

#### **OPTIONS/ DISCUSSION:**

The WAN is a vital component of the City's data network and access to fast and reliable internet connectivity continues to be a key priority to support virtual recreation programs and remote workers during the COVID pandemic. Staying with the current supplier would ensure the continued supply of a proven and reliable solution in this critical area and the avoidance of considerable disruption in the event of replacement.

In order to minimize the risk of internet outage from using a single provider, for redundancy and service provider diversity, the City also uses Bell Canada services as a second line of internet connection and staff recommend the contract with Bell Canada for these services to be renewed at the existing rate.

Staff concluded that it is in the best interest of the City to renew internet and WAN Services with Rogers Communications, and with both Rogers Communications and Bell Canada for internet services due to the following reasons:

- 1. Both Rogers Communications and Bell Canada are the only two vendors that provide the fibre connectivity in Markham. Both vendors continue to remain competitive with other service providers in the market;
- 2. The recommended contract extension pricing includes:
  - A negotiated 11.6% monthly rate reduction with Rogers Communications for the WAN connectivity and Internet services, for a net savings of \$38,090.40 per year;
  - A negotiated internet bandwidth increase from 500 Mbps to 600 Mbps for public wireless access at same rate.
- 3. Both Bell Canada and Rogers Communications have a proven track record with the City, and have provided satisfactory customer services during the current Term of 2010 2020.

It is recommended that the WAN and internet service contracts be extended for additional two (2) years with both Rogers and Bell. The cost for this service renewal is contained within the existing ITS operating budget.

#### FINANCIAL CONSIDERATIONS

The annual service fee for WAN and Internet Services will be paid from operating account 400-404-5108 as part of annual budget approved by Council.

	<b>Total Cost of Award</b>	Cost of Award by Year				
	2021 - 2022	Oct - Dec 2020	Jan to Dec 2021	Jan - Sep 2022		
Rogers	\$ 577,815	\$ 72,227	\$ 288,908	\$ 216,680		
Bell	<u>79,006</u>	<u>9,876</u>	<u>39,503</u>	<u>29,627</u>		
Subtotal	656,821	82,103	328,411	246,307		

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Subtotal	656,821	82,103	328,411	246,307

	2020 Budget Impact	
Budget for Oct to Dec 2020	\$ 91,626	(A)
Cost of Award	<u>82,103</u>	(B)
Savings for 2020	9,523	(C) = (A) - (B)

	2021 Budget Impact	
Current Annual Budget	\$ 366,501	(D)
Cost of Award	<u>328,411</u>	(E)
Savings for 2021	38,090	(F) = (D) - (E)

Savings from October - December 2020 (C) in the amount of \$9,523 will be included in the 2020 year-end operating results of the City.

The 2021 operating budget will be reduced by \$38,090.

#### **HUMAN RESOURCES CONSIDERATIONS**

Not applicable

### **ALIGNMENT WITH STRATEGIC PRIORITIES:**

Not applicable

#### **BUSINESS UNITS CONSULTED AND AFFECTED:**

Not applicable

#### **RECOMMENDED BY:**

Nasir Kenea Chief Information Officer, ITS Trinela Cane

Commissioner, Corporate Services



Report to: General Committee Meeting Date: October 5, 2020

**SUBJECT**: Contract # 043-S-20 To Operate and Maintain the Combined

Heat and Power System at Angus Glen Community Centre

**PREPARED BY:** Jason Vasilaki, Project Manager, Ext. 2845

Flora Chan, Senior Buyer, Ext. 3189

#### **RECOMMENDATION:**

1. THAT the report entitled "Contract # 043-S-20 To Operate and Maintain the Combined Heat and Power System at Angus Glen Community Centre" be received and,

- 2. THAT the Operation and Maintenance of the Angus Glen Combined Heat and Power System be awarded to Markham District Energy Inc. ("MDE") to an annual upset limit of \$167,904.00 inclusive of HST impact for a period of five (5) years (2020 2024), totaling \$839,520.00 inclusive of HST impact (excluding adjustment to CPI) over that five (5) year period and,
- 3. THAT years 2 5 (2021-2024) be adjusted based on the Consumer Price Index (CPI) Ontario All-Items (January to January) and,
- 4. THAT the 2020 award be funded from operating budget account 504-921-5314 "Service Agreements Facility Maintenance" and,
- 5. THAT the tendering process be waived in accordance with Purchasing By-Law 2017-8, Part II, Section 11.1 (h), which states "where it is in the best interests of the City to acquire non-standard items or Professional Services from a supplier who has a proven track record with the City in terms of pricing, quality and service;" and,
- 6. THAT the Mayor and Clerk be authorized to execute the agreement with Markham District Energy Inc, in a form approved by CAO and the City Solicitor and,
- 7. THAT the CAO be authorized to extend the contract for an additional five (5) years (2025-2029) subject to Council's approval of the annual operating budget
- 8. AND THAT Staff be authorized and directed to do all things necessary to give effect to this resolution.

#### **PURPOSE:**

The purpose of this report is to seek Council's authorization for a non-competitive award to Markham District Energy Inc. ("MDE") to operate the Combined Heat and Power (CHP) system at Angus Glen Community Centre & Library and for associated maintenance advisory and maintenance co-ordination services on behalf of the City.

### BACKGROUND:

The City recently installed a Combined Heat and Power (CHP) system at Angus Glen Community Centre & Library (AGCC&L). Commissioning is currently ongoing.

The CHP system utilizes a heat engine (a natural gas powered generator) to generate electricity. The facility uses this electricity in lieu of power from the electrical utility (grid), at a lower overall cost. A typical generator creates heat as a by-product, which is usually released to the environment as waste heat. The CHP process reclaims such waste heat and reuses it in the facility, thereby further creating even more savings in utility costs. At Angus Glen, this waste heat is used to supplementally heat the building's interior space, the domestic water and the water in the pools. As a result AGCC&L will see a reduction in overall operating costs as the utility savings are greater than the costs to operate the CHP (including this contract).

Markham District Energy Inc. (MDE) is an internationally recognized district energy company providing heating and cooling services to nearly 12 million square feet of private and public buildings in Markham with 15.5 MW (megawatts) of combined heat and power equipment in their system.

MDE is wholly owned by the City of Markham and provides heating and cooling services to City facilities including; Civic Centre, FLATO Markham Theatre, 8100 Warden, Pan Am Centre, Cornell CC&L and Fire Station 99.

#### **OPTIONS/ DISCUSSION:**

Retaining an experienced CHP operator would ensure maximum operational efficiency and energy savings are achieved. Staff recommends a non-competitive contract award to MDE based on following rationale:

#### <u>Technical expertise</u>

MDE has owned and operated CHP equipment since 2001. As part of the service agreement, MDE will provide the following services:

- CHP design and integration reviews
- Assisting with start-up and commissioning activities
- Establishing vendor maintenance contracts and reviews in conjunction with the City representative
- Managing warranty and vendor guarantees
- Management and ongoing review of CHP Vendor Service
- Management of any third-party service or repair firms
- Review and advise on natural gas contracts with Enbridge
- Updates to the City with respect to industry awareness, changing rules, regulation and advocacy
- Updates and assistance to the City with respect to Ontario Energy Board matters, LDC rules, electricity regulations specific to CHP
- Regular reporting to the City (daily, monthly and annual performance reports)

#### Efficiency and cost savings

This agreement is structured to ensure overall up-time (target of 8,400 hours per year) on the CHP equipment to ensure the City achieves the maximum annual utility cost savings from this capital investment.

In Staff's due diligence during business case development in 2018, we consulted with other municipalities that had already installed CHP units in recreation facilities and found that operational issues due to lack of expertise and availability of parts and service negatively impacted their ability to achieve base case targets or stretch targets. To maximize operational efficiencies, Staff sought out and have received advice and support from MDE during the scoping and construction of the CHP at AGCC&L. A performance based payment is recommended as part of the agreement, to act as an additional incentive for MDE to operate the CHP favourably and minimize downtime, thereby maximizing the energy savings to the City, as detailed in the Financial Considerations section. Such performance incentive payment clauses are common in the energy savings industry (e.g., building automation systems with a 50/50 split savings between the building owner and Energy Savings Company/provider), where revenue generated is highly impacted based on performance. Performance based contracting has been a successful model for procuring energy efficiency retrofits in the public sector for over twenty years.

MDE has experienced staff and resources and is located only 5.8 km from the CHP site to efficiently and effectively carry out operational services. As part of the service agreement, MDE's operating engineers will provide remote monitoring and control services 24 hours a day, 365 days a year. Alternative operators would take hours to respond to site issues and would be unavailable outside normal business hours.

MDE will be the first responder to site when abnormal or shut-down conditions occur for initial diagnosis and restart. MDE will then liaise with third-party technicians as required in order to minimize unnecessary dispatch services.

The overall intent is for MDE to be the one-stop shop, where MDE will take on full responsibility to operate and maintain the CHP system as if it was a MDE-owned asset.

The alternative would be for the City to hire another third party or its own technical expert to join our staff complement. By partnering with MDE the City is able to achieve enterprise synergies with a business we own, that is an expert CHP operator, and a company with which we have significant experience as a satisfied customer.

#### Staff Analysis

Staff tested the market and confirmed that pricing in the agreement is reasonable and competitive. The performance based incentive will serve to maximize operational efficiencies and savings to the City.

We believe this agreement provides the expected value to the City and staff will undertake a detailed review of performance results with MDE at the end of the second year of the contract.

Year one will be under warranty, therefore a second full year outside of warranty is necessary for a true measure of performance. The outcome of that review may result in continuation of the contract, cancellation or agreed to modifications.

#### FINANCIAL CONSIDERATIONS:

#### Award Breakdown

The total payment to MDE is comprised of 3 components: (1) an operating base fee, (2) a maintenance services fee and (3) a performance-based incentive; and will be paid from the reduction in the utility costs at AGCC&L.

#### Table 1: Award Breakdown:

All costs will be adjusted yearly based on Consumer Price Index (CPI) Ontario All-Items (January to January)

#### (1) Operating Base Fee

The annual base fee is \$45,792 inclusive of HST impact, and it includes the following:

- advisory and management services
- remote monitoring and operating services
- monthly (12) site visits and inspections per year by MDE's CHP Lead, and
- six (6) site visits per year by MDE's Operations staff for such things as manual re-starts or to enable the emergency power mode.

#### (2) Maintenance Services

MDE will invoice the City for costs from the CHP vendor with no markup on a transparent and open book basis. On-site operation and maintenance (O&M) services performed by MDE staff, as well as any required on-site attendance to supervise or assist the CHP vendor, will be billed on actual hours at \$71.40 per hour per person, and 1.5 times for after-hours work, plus HST impact. While the actual cost of maintenance services will fluctuate from year to year, and will be billed as incurred, MDE estimates that the average annual cost for the first 5 years of operation is expected to be approximately \$76,320, inclusive of HST impact.

#### (3) Performance Incentive

In the event MDE achieves utility savings on behalf of the City exceeding the base business case, such savings is shared 50/50 between the City and MDE, as a financial incentive for performance. The maximum incentive is capped at 100% of the base fee (\$45,792). On the other hand, a financial penalty is imposed in the event of negative performance below the base business case. The maximum financial penalty is a reduction of 50% in the operating fee (\$22,896). The penalty is limited because negative performance in utility savings may result from factors that are unrelated to MDE's performance (e.g. utility rate fluctuations, facility maintenance and/or deficiencies in the supply of the equipment by others) and MDE will have incurred sunk costs in fulfilling their contractual obligations.

The actual costs will be benchmarked against a Base Case financial scenario and both the positive and negative variance from the Base Case will be shared 50/50 with MDE.

Table 2: Incentive Illustration

	Base Case	Savings Above Base Case due to Low O&M Fees (Example 1)	Savings Below Base Case due to High O&M Fees (Example 2)	Savings Below Base Case due to Decrease in Hrs of Operation (Example 3)	Maximum MDE Incentive (Example 4)*
Hours of Operation	8,400	8,400	8,400	7,500	8,760
Electrical Utility Reduction	\$498,420	\$498,420	\$498,420	\$445,018	\$589,733
Natural Gas Utility Increases	(\$128,466)	(\$128,466)	(\$128,466)	(\$114,702)	(\$120,575)
Overall Utility Savings (A)	\$369,954	\$369,954	\$369,954	\$330,316	\$469,158
Maintenance Services	\$68,700	\$50,880	\$76,320	\$68,700	\$76,320
Base Fee	\$45,792	\$45,792	\$45,792	\$45,792	\$45,792
Total O&M Fees (B)	\$114,492	\$96,672	\$122,112	\$114,492	\$122,112
Net Savings (C = A - B)	\$255,462	\$273,282	\$247,842	\$215,824	\$347,046
Less: MDE Incentive (D)	\$0	\$8,910	(\$3,810)	(\$19,819)	\$45,792
Net Savings to City (E = C - D)	\$255,462	\$264,372	\$251,652	\$235,643	\$301,254
Payment to MDE	¢114.402	\$06.672	¢122.112	¢114.402	¢122.112
Total O&M (B)	\$114,492	\$96,672	\$122,112	\$114,492	\$122,112
MDE incentive (D)  Total Payment to  MDE	\$0 <b>\$114,492</b>	\$8,910 <b>\$105,582</b>	(\$3,810) \$118,302	(\$19,819) <b>\$94,673</b>	\$45,792 <b>\$167,904</b>

<sup>\*</sup>Example 4 based on favourable fluctuations in utility rates.

The Base Case scenario anticipates 8400 hours of operation per year at 95% availability at 2020 corporate electrical and natural gas utility budget rates. The Overall Utility Savings (A) is estimated based on utilities volume adjustment due to the CHP system. The Base Case estimates Net Savings (C) of \$255,462.

If MDE generates Net Savings (C) above or below the Base Case, the incentive will increase (Example 1) or decrease (Examples 2 and 3) the Total Payment to MDE will adjust accordingly.

In order to achieve maximum incentive, a minimum of \$347,046 in Net Savings (C) (or 35.9% above the Base Case) is required (Example 4), resulting in a net savings to the City of \$301,254.

Over the course of the first five (5) years (2020 - 2024), the award value is \$839,520.00 inclusive of HST impact (excluding adjustment to CPI) over that five (5) year period.

#### OPERATING BUDGET AND LIFE RESERVE IMPACT:

The capital investment, after the utilities incentive, is \$1,749,385 and is up-fronted by the Life Cycle Replacement and Capital Reserve through capital project #18083, Angus Glen Community Centre Combined Heat and Power (CHP) System. The estimated service life is 25 years and the estimated annual net cost savings according to base business case is \$255,462, upon start-up, subject to changes in actual usage, weather, facility operation, and utilities rates.

50% (\$127,731) as a reduction to the Angus Glen Community Centre operating budget.

The payback period is approximately 6.8 years (\$1,749,385/\$255,462). Once the initial upfronted costs have been fully paid back, the estimated net annual savings of \$255,462 will be split 50% (\$127,731) to the MECO account to fund other energy management initiatives and

At the end of the 25 year life of the CHP, the project business case will be re-evaluated for reinvestment based on the known benefits and costs at that time. It will not be entered into the City's Life Cycle Reserve.

#### **LEGAL CONSIDERATIONS:**

The City is subject to the following new trade agreements, which apply to public sector procurements above a certain dollar threshold: the Canada-European Union Comprehensive Economic and Trade Agreement (CETA), effective September 21, 2017; and the Canadian Free Trade Agreement (CFTA), effective July 1, 2017.

CETA and CFTA do not apply to this proposed procurement, as MDE and the City are affiliated entities.

#### **ALIGNMENT WITH STRATEGIC PRIORITIES:**

This project aligns with Building Markham's Future Together goals of:

- 1. Safe, Sustainable and Complete Community: The CHP unit is configured to provide back up power so Angus Glen CC&L can act as an emergency reception centre in the event of a prolonged power outage.
- 2. Stewardship of Money and Resources: The unit will provide substantial annual utility cost savings for one of our largest facilities for its service life of 25 years.

#### **BUSINESS UNITS CONSULTED AND AFFECTED:**

The Recreation, Legal, and Finance Departments have been consulted and their comments have been incorporated.

RECOMMENDED BY:	
Graham Seaman, P. Eng, LEED AP, CEM	Trinela Cane
Director, Sustainability & Asset Management	Commissioner, Corporate Services



Report to: General Committee Meeting Date: October 5, 2020

**SUBJECT**: World Council on City Data ISO 37120 Certification

**PREPARED BY:** Raj Raman, Ext. 7522

#### **RECOMMENDATION:**

1) That the report dated October 5, 2020 titled "World Council on City Data, ISO 37120 Certification" be received, and,

2) That the formal virtual presentation of the World Council on City Data (WCCD), ISO 37120 Platinum Certification to the City of Markham be received.

#### **PURPOSE:**

This report is to inform Council of the receipt of the World Council on City Data (WCCD) ISO 37120 platinum certification for the City's data for the year ended December 31, 2018.

#### **BACKGROUND:**

The World Council on City Data (WCCD) was founded in 2014 to help communities of all sizes - in Canada and across the globe - to embrace standardized, independently verified, and globally comparable city data to become more sustainable, resilient, prosperous inclusive and smart.

Since its founding, the WCCD has been working with 100 cities worldwide and has helped these cities to adopt ISO 37120, the first international standard for city data. The WCCD and ISO 37120 are a truly "Made in Canada" initiative – with their ultimate creation primarily spearheaded by Canadian urban thinkers and city leaders. The standard includes 104 indicators across 19 themes and standardizes data to measure progress on city services and quality of life. ISO 37120 provides cities with quantitative, globally comparable and independently verified local-level data enabling any city, of any size, to measure and compare its social, economic, and environmental progress internally year over year, and also in relation to other peer cities locally and globally. The WCCD Global Network includes one hundred cities across more than thirty countries.

The WCCD is now implementing three international standards referred to as the ISO 37120 Series – that includes ISO 37120 as the base document and two new standards: ISO 37122 – Indicators for Smart Cities and ISO 37123 – Indicators for Resilient Cities.

Meeting Date: October 5, 2020

#### **OPTIONS/ DISCUSSION:**

In July 2019, the Government of Canada - Ministry of Infrastructure and Communities announced the "Data for Canadian Cities Pilot Project" (DCCPP). This project is a three year initiative to support WCCD to work with fifteen selected municipalities across Canada to help collect globally standardized data set that measures the quality of life and delivery of city services at a municipal level. These fifteen municipalities (refer Appendix A) will join a group of cities across the country that have subscribed to ISO 37120 – the first international standard on city data.

The DCCPP will help the participating cities become certified for three years under ISO 37120, the world's first international standard for city data. As the project continues into years two and three, a significant focus will be placed on assisting the participating municipalities in using the data to improve city services and quality of life for citizens. With the City achieving WCCD ISO 37120 Certification, it is now eligible to apply for both ISO 37122 (Smart Cities) & ISO 37123 (Resilient Cities) Certification.

#### What is ISO 37120?

WCCD has been working with cities worldwide to develop a set of globally comparable indicators for City Services and Quality of Life. While the first international standard on city data, was published in May 2014 by the International Organization for Standardization (ISO), this new international standard was developed using the framework of the Global City Indicators. ISO 37120 defines and establishes definitions and methodologies for the set of indicators to steer and measure the performance of city services and quality of life.

The standard includes a comprehensive set of 104 indicators (56 core 59 supporting) – (refer Appendix B) across 19 themes that measures a city's social, economic, and environmental performance in areas such as, Economy, Education, Energy, Environment, Finance, Governance, Health, Housing, Population and Social Conditions, Recreation, Safety, Solid Waste, Sports and Culture, Telecommunication, Transportation, Urban /Local agriculture and food security, Urban Planning, Wastewater and Water. Reporting over 90 indicators including all core indicators will result in obtaining the WCCD ISO 37120 Platinum Certification. Cities can obtain different levels of certification, platinum being the highest based on the number of indicators reported and verified according to ISO 37120. Each annual certification under ISO 37120 and registration in the WCCD Global Cities Registry for the City is in effect and valid for one year.

WCCD supported City staff both remotely and through in person meetings to help the City achieve Platinum certification the highest level of WCCD ISO 37120 certification (refer Appendix C) WCCD also assisted the City in obtaining data for indicators relating to services rendered by other levels of government (e.g. Education, Health, and Telecommunication). Through the DCCPP, the City of Markham now joins 30 Canadian cities and over 100 cities in more than 30 countries worldwide that have been certified for ISO 37120.

Meeting Date: October 5, 2020

#### FINANCIAL CONSIDERATIONS

The Data for Canadian Cities Pilot Project (DCCPP) announced by the Government of Canada waives the annual WCCD certification fee of \$10k for two years and the City will pay the fee for an additional year.

#### **HUMAN RESOURCES CONSIDERATIONS**

N/A

#### **ALIGNMENT WITH STRATEGIC PRIORITIES:**

Receipt of this certification aligns with the City's leadership in all data transparency and sharing which is one of the goals of the Digital Strategy.

#### **BUSINESS UNITS CONSULTED AND AFFECTED:**

N/A

RECOMMENDED BY:					
Andy Taylor, CAO	Trinela Cane, Commissioner, Corporate Services				
Arvin Prasad, Commissioner, Develop	 ment Services				

#### **ATTACHMENTS:**

List of Cities Participating in the DCCP project - Appendix A List of Indicators - Appendix B WCCD Certification - Appendix C

#### Appendix A

#### **List of Cities participating in the DCCP project**

- 1. City of Brampton, Ontario
- 2. City of Charlottetown, ,PEI
- 3. City of Corner Brook, Newfoundland and Labrador
- 4. County of Brant, Ontario
- 5. City of Edmonton, Alberta
- 6. City of Greater Sudbury, Ontario
- 7. City of Kitchener, Ontario
- 8. City of Markham, Ontario
- 9. City of Mount Pearl, Newfoundland and Labrador
- 10. Town of Richmond Hill, Ontario
- 11. City of Saskatoon, Saskatchewan
- 12. City of Selkirk, Manitoba
- 13. City of St. John's, Newfoundland and Labrador
- 14. City of Waterloo, Ontario
- 15. City of Yellowknife, Northwest Territories

#### **APPENDIX B**

# City of Markham List of Indicators ISO 37120 Certification

	Indicator			Verified Value	Sourced	Source
Theme	Core	Supporting	Description		Ву	
Economy	5.1		City's unemployment rate	7.26%	WCCD	2016 Census-Statistics Canada
		5.2	Assessed value of commercial and industrial properties as a % of total assessed value of all properties	12.76%	WCCD	Markham Financial Information Return
		5.3	% of persons in full employment	52.25%	WCCD	2016 Census-Statistics Canada
		5.4	Youth unemployment rate	20.92%	WCCD	2016 Census-Statistics Canada
		5.5	Number of business per 100k Population	3,094	WCCD	Markham Employment Survey
		5.6	Number of new patents per 100k population	90	WCCD	United States Patent Office
		5.7	Annual number of visitor stays (overnight) per 100k population	130,673	City	Economic Development Department
		5.8	Commercial air connectivity (number of non stop commercial air destinations)	345,011	WCCD	Statistics Canada
Education	6.1		% of female school aged population enrolled in schools	93.13%	WCCD	Ministry of Education, Ontario (Markham)
	6.2		% of students completing primary education survival rate	100%	WCCD	Ministry of Education, Ontario (Markham)
	6.3		% of students completing secondary education survival rate	90.70%	WCCD	Ministry of Education, Ontario (York
	6.4		Primary education students/teacher ratio	12.95	WCCD	Ministry of Education, Ontario (Markham)
		6.5	% of school aged population enrolled in schools	93.14%	WCCD	Ministry of Education, Ontario (Markham)
		6.6	Number of higher education degrees per 100k population	47,160	WCCD	2016 Census-Statistics Canada
Energy	7.1		Total end use energy consumption per capita (GJ/year)	95	City	City of Markham Municipal Energy Plan
	7.2		% of total end use derived from renewable sources	32.45%	WCCD	Independent Electricity System Operator (Ontario)
	7.3		% of city population with authorized electrical service	99.31%	City	Sustainability and Asset Management
	7.4		Number of gas distribution service connections per 100k population	81,222	City	Sustainability and Asset Management
	7.5		Final energy consumption of public buildings per year (GJ/Cu.M)	1.86	City	Sustainability and Asset Management
		7.6	Electricity consumption of public street lighting per km of lighted street (kwh/year)	12,500	City	Operations Department
			Average annual number of electrical service interruptions per household (in hours)	Not reporting	,	
				,		
Environment	8.1		Fine particulate matter (PM 2.5) concentration (microgram/m³)	7.35	WCCD	Ministry of the Environment and Climate Change
	8.2		Particulate matter (PM 10) concentration	Not reporting		

8.3		GHG emissions measured in tonnes per capita	5.7	City	City of Markham Municipal Energy Plan
	8.4	% of areas designated for natural protection	32.39%	City	Planning & Urban Design
	8.5	Nitrogen dioxide (NO2) concentration (microgram/m³)	19.73	WCCD	Ministry of the Environment and Climate Change
	8.6	Sulphur dioxide (SO2) concentration (microgram/m³)	1.21	WCCD	Ministry of the Environment and Climate Change
	8.7	Ozone concentration (microgram/m3)	48.32	WCCD	Ministry of the Environment and Climate Change
	8.8	Noise pollution	Not reporting		
	8.9	% change in number of native species	Not reporting		
9.1		Debt Service Ratio	0.29%	WCCD	Markham Financial Information Return
	9.2	Capital spending as a % of total expenditures	12.22%	WCCD	Markham Financial Information Return
	9.3	Own source revenues as a % of total revenue	67.58%	WCCD	Markham Financial Information Return
	9.4	Tax collected as a % of tax billed	97.33%	WCCD	Markham Financial Information Return
10.1		Women as a % of total elected to city-level office	23.08%	WCCD	City of Markham Website
	10.2	# of convictions for corruption and/or bribery by city officials per 100k population	0	City	Clerks Department
	10.3	Number of registered voters as a % of the voting age population	Not reporting		·
	10.4	Voter participation in last municipal election (as a % of total voters)	38.26%	City	Clerks Department
11.1		Average life expectancy (years)	85.3	WCCD	York Region Seniors Strategy Report
11.2		Number of in patient hospital beds per 100k population	120	WCCD	Markham Economic Profile
11.3		Number of physicians per 100k population	155	WCCD	Ontario Physician Human Resources Data Centre
11.4		Under age five mortality per 1,000 live births	5.3	WCCD	Statistics Canada (Ontario)
	11.5	Number of nursing and midwifery personnel per 100k population	508	WCCD	Canadian Institute for Health Information (York Region)
	11.6	Suicide rate per 100k population	5.72	WCCD	Ontario Coroner's Office
12.1		% of city population living in inadequate housing	2.52%	WCCD	Statistics Canada, Core Housing Need
12.2		% of population living in affordable housing	65.71%	WCCD	Statistics Canda-2016 Census
	12.3	Number of homeless per 100k population	32.65	WCCD	icount: York Region 2018 Homeless Count Report
	12.4	% of households that exist without registered legal titles	Not reporting		
13.1		% of city population living below international poverty line	0%	WCCD	Assumed for all Canadian cities
	13.2	% of city population living below the national poverty line	12.24%	WCCD	Statistics Canada-2016 Census
	13.3	Gini coefficient of inequality	0.37	WCCD	Calculated by WCCD analysts from Statistics Canada figures
					Jacatiatica Canada figures

Finance

Governance

Health

Housing

Population & Social Conditions

Recreation		14.1	Sq. m of public indoor recreation space per capita	0.33	City	Recreation
		14.2	Sq. m of public outdoor recreation space per capita	18.36	City	Recreation
Safety	15.1		Number of firefighters per 100k population	69	City	Fire & Emergency Services
	15.2		Number of fire related deaths per 100k population	0.58	City	Fire & Emergency Services
	15.3		Number of natural hazard related deaths per 100k population	0	WCCD	Ontario Coroner's Office
	15.4		Number of police officers per 100k population	131	WCCD	Statistics Canada
	15.5		Number of homicides per 100k population	0.96	WCCD	Statistics Canada
		15.6	Number of volunteer and part-time firefighters per 100k population	0	City	Markham Financial Information Return
		15.7	Response time for emergency response services from initial call (minutes and seconds)	9.7	WCCD	Ministry of Health and Long-Term Care Land Ambulance Program (Ambulance and Fire Only)
		15.8	Crime against property per 100k population	1,693	WCCD	Statistics Canada
		15.9	Number of deaths caused by industrial accidents per 100k	Not reporting		
		15.10	Number of violent crime against women per 100k population	Not reporting		
	16.1		% of city population with regular waste collection (residential)	98.09%	City	Environmental Services
Solid Waste	16.2		Total collected municipal solid waste tonnes per capita	0.24	City	Environmental Services
	16.3		% of the city's solid waste that is recycled	31.08%	City	Environmental Services
	16.4		% of city's solid waste that is disposed of in a sanitary landfill	2.54%	City	Environmental Services
	16.5		% of solid waste that is treated in energy from waste plants	15.59%	City	Environmental Services
		16.6	% of city's solid waste that is biologically treated and used as compost or biogas	50.79%	City	Environmental Services
		16.7	% of city's solid waste that is disposed of in an open dump	0%	City	Environmental Services
		16.8	% of city's solid waste that is disposed of by other means	0%	City	Environmental Services
		16.9	Hazardous waste generation per capita (tonnes)	0	City	Environmental Services
		16.10	% of city's hazardous waste that is recycled	76%	City	Environmental Services
Sports & Culture	17.1		Number of cultural institutions and sporting facilities per 100k population	157	City	Culture
		17.2	% of municipal budget allocated to cultural and sporting facilities	20.36%	WCCD	Markham Financial Information Return
		17.3	Annual number of cultural events per 100k population (e.g. exhibitions, festivals, concerts)	Not reporting		
Telecommunications		18.1	Number of internet connections per 100k population	86,000	WCCD	Communication Monitoring Report (Ontario)
		18.2	Number of mobile connections per 100k population	89,700	WCCD	Communication Monitoring Report (Ontario)
	19.1		Km of public transport system per 100k population	277	City	Engineering
Transportation	19.2		Annual number of public transport trips per capita	48	City	Engineering
		19.3	% of commuters using a travel mode to work other than a personal vehicle	14%	City	Engineering
		19.4	Km of bicycle paths and lanes per 100k population	56.5	City	Engineering
		19.5	Transportation deaths per 100k population	1.44	City	Engineering
		19.6	% of population living within 0.5km of public transit running at least every 20 min during peak periods	63%	City	Engineering
		19.7	Average commute time (in minutes)	37	WCCD	Statistics Canada

Urban/local agriculture and food security

**Urban Planning** 

Wastewater

Water

			<u>_</u>		
20.1		Total urban agricultural area per 100k population Planning	1,610.76	City	Planning & Urban Design
	20.2	Amount of food produced locally as a % of total food supplied to the City	2%	WCCD	Ontario Ministry of Agriculture, Food, and Rural Affairs
	20.3	% of city population undernourished	Not reporting		
	20.4	% of city population that is overweight or obese – Body Mass Index (BMI)	Not reporting		
21.1		Green area (hectares) per 100k population	1,387	City	Planning & Urban Design
	21.2	Area size of informal settlements as a % of city area	Not reporting		
	21.3	Jobs/housing ratio	Not reporting		
	21.4	Basic service proximity	34.48%	City	Planning & Urban Design
22.1		% of city population served by wastewater collection	98.57%	City	Environmental Services
22.2		% of city's wastewater receiving centralized treatment	100%	City	Environmental Services
22.3		% of population with access to improved sanitation	100%	City	Environmental Services
	22.4	Compliance rate of wastewater treatment	100%	City	Environmental Services
23.1		% of city population with potable water supply service	99.24%	City	Environmental Services
23.2		% of city population with sustainable access to an improved water source	100%	City	Environmental Services
23.3		Total domestic water consumption per capita (litres/day)	186	City	Environmental Services
23.4		Compliance rate of drinking water quality	99.86%	City	Environmental Services
	23.5	Total water consumption per capita (litres/day)	235	City	Environmental Services
	23.6	Average annual hours of water service interruption per household	Not reporting		
	23.7	% of water loss (unaccounted for water)	10.80%	City	Environmental Services

## **ISO 37120**



# **Certificate Of Registration**

ISO 37120 Sustainable Development of Communities: Indicators for City Services and Quality of Life

The World Council on City Data certifies that:

### **MARKHAM**

Has reported indicators in conformity with ISO 37120 at the

## Platinum Level - ISO 37120

And has been added to the WCCD Global Cities Registry™

Reporting Year: 2019

Certificate Registration Number: 2019-P-0137

Certificate Expiry Date: March 31st, 2021

Patricia McCarney

President and CEO

World Council on City Data



## **Intelligent Community Forum (ICF)**

# **Update on ICF Top7 Evaluation Process**

October 5, 2020







Markham for Intelligent Community of the year

## **Intelligent Community Forum (ICF)**

- A global network and think tank connecting hundreds of cities and regions on five continents
- Promotes research and collaboration on economic development and the exchange of expertise and information to drive excellence and progress in the digital age

## The ICF Framework

- A guiding methodology based on six indicator areas which determine a community's competitiveness and contribute to its success in the digital economy:
  - Connectivity
  - Knowledge Workforce
  - Digital Inclusion

- Sustainability
- Engagement
- o **Innovation**







Markham for Intelligent Community of the year

## **ICF Intelligent Community Awards**

- A yearly awards program which ranks communities from around the world based on their progress and achievement in the 6 indicator areas
- Recognizes readiness and performance in the development of inclusive prosperity, social health and cultural richness on a foundation of information and communications technology







Markham for Intelligent Community of the year

## Markham's ICF Awards Journey

- Markham staff prepared comprehensive and detailed awards submissions highlighting
   Markham's strengths, key projects, collaborations, innovations and crucial success factors
- The submissions involved active engagement of key Markham business leaders including General Motors, IBM and AMD, and York University, Seneca College, University of Toronto and ventureLab
- The City successfully progressed through the first and second levels of the awards:
  - Smart21 Communities of the Year
  - Top7 Intelligent Communities of 2020
- Markham is the first York Region municipality to reach the Top7 level
- Markham is competing for the top honour, ICF Intelligent Community of 2020, along with:
  - Hamilton, Ontario; Hudson, Ohio; Westerville, Ohio; Tallinn, Estonia; Sunshine Coast, Australia;
     Adelaide, Australia







Markham for Intelligent Community of the year

## The ICF Virtual Site Visit (September 9 and 10, 2020)

- ICF adjudicators validated and assessed Markham's achievements as a key part of the Intelligent Community of the Year evaluation process
- Two half-day Zoom sessions were held instead of a physical visit due to COVID-19 (Agenda attached as Appendix A))
- Comprehensive presentations were made by Mayor Scarpitti, Markham Staff, business leaders and other partners, along with interactive discussions and questions. These highlighted our successes and demonstrated why Markham should be selected Intelligent Community of the Year
- Copies of the presentations have been posted on Checkmark
- A recording of the two half day sessions, including the evaluator's questions and related responses by presenters will be posted on Checkmark within the next two weeks







Markham for Intelligent Community of the year

## **ICF Awards Next Steps**

- The ICF adjudicators will report their findings from Markham's virtual site visit to an international ICF jury for evaluation and selection of the winner.
- The ICF Intelligent Community of the Year will be announced at the virtual ICF Global Summit on Thursday, October 29 at 12:45pm.





Markham for Intelligent Community of the year

## ICF Virtual Global Summit (October 21 – 29, 2020)

Markham has the opportunity to showcase its achievements before a global audience through participation in several events at ICF's annual conference:

#### Top7 Conversation, Markham

 Markham's representatives will participate in a 20 minute pre-recorded interview to highlight the City's Intelligent Community successes as a Top7 finalist

#### CIO Roundtable

Municipal CIOs and private-sector executives discuss and debate the challenges of IT infrastructure and services for the public

#### Collaborative Leadership From Council to Community

 A panel of Mayors and City Managers share case studies and exchange ideas for building shared understanding and agreement on action

#### Intelligent Community Awards Announcement

Should Markham be selected as Intelligent Community of the Year, a City representative will give
a brief acceptance speech







Markham for Intelligent Community of the year

## **Recommendation:**

THAT the presentation entitled "Update on the ICF Top7 Evaluation Process" be received.







## Appendix A: ICF Virtual Site Visit Agenda

Markham for Intelligent Community of the year

### Agenda Day One – Wednesday, September 9, 2020

Time	Topic	Presenters
1:00pm – 2:00pm	60 min. Community Overview Presentation	-Mayor Frank Scarpitti -MC – Trinela Cane
2:00pm – 2:15pm	15 min. ICF Co-Founder Presentation	-Robert Bell, ICF Co-Founder
2:15pm – 2:45pm	Engagement (30 min.)	-Nasir Kenea (Digital Markham Strategy) – 15 min. -Andrea Berry (Community Engagement Initiatives) – 15 min.
2:45pm – 3:15pm	Sustainability (30 min.)	-Graham Seaman (Sustainability in Markham) – 30 min.
3:15pm – 3:50pm	Connectivity (35 min.)	-Nasir Kenea (Fibre to Home, YorkNet) – 10 min. -Kimberley Kitteringham (Online Voting) – 25 min.
3:50pm – 4:00pm	10 min. Open Conversation – Day 1 Conclusion, Questions	-MC – Trinela Cane







## Appendix A: ICF Virtual Site Visit Agenda

Markham for Intelligent Community of the year

## Agenda Day Two – Thursday, September 10, 2020

Time	Topic	Presenters
9:00am – 9:10am	10 min. – Day 2 Introduction/Recap/Questions	-MC – Trinela Cane
9:10am – 9:35am	Digital Inclusion (25 min.)	-Andrea Cecchetto, Jennifer North, Markham Public Library (MPL) – (Digital Literacy, Makerspaces)
9:35am – 10:10am	Knowledge Workforce (35 min.)	-Christina Kakaflikas (Educational Collaboration, Talent) – 10 min.  -Chris Dudley (Seneca HELIX program) – 10 min.  -Introduction by Claudia Storto:  -David Zambrano (MPL – STEAM program) – 15 min.
10:10am –11:05am	Innovation (55 min.)	<ul> <li>-Nasir Kenea (Markham Portal, City Innovations) – 10 min.</li> <li>-Introduction by Arvin Prasad:         <ul> <li>-Stephanie Di Perna (ePLAN) – 10 min.</li> </ul> </li> <li>-Christina Kakaflikas (Markham Enables Innovation) – 10 min.</li> <li>-Melissa Chee (ventureLAB - Mission, Programs, Successes) – 25 min.</li> </ul>
11:05am – 11:55am	50 min. Open Conversation – Panel Discussion (ICF and Community leaders)	<ul> <li>-Moderator: Andy Taylor, CAO</li> <li>-Panel Participants:</li> <li>Steven Astorino, IBM</li> <li>Sara LeBlanc, GM</li> <li>Rhonda Lenton, York University</li> <li>Kevin O'Neil, AMD</li> <li>Andrew Sjogren, Mattamy Homes</li> </ul>
11:55am – 12:00pm	5 min. – Day 2 Conclusion/Wrap-up Remarks	-Andy Taylor