Markham 2024 Budget



2024 CAPITAL BUDGET

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Markham 2024 Budget



2024 CAPITAL BUDGET

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# Project Description	Total	Tax	Life Cycle	DC - Reserve	DC - Developer	Other	Description of Other Fund
PITAL BUDGET REQUESTS							
elopment Services							
Culture							
24001 Culture Public Art Master Plan Implementation Phase 5 of 5	248,000						Public Art Acq. Project 22220
TOTAL	<u>Culture</u> 248,000	-	-	-	-	248,000	
Museum							
24002 Museum Maintenance	23,800		23,800				
<u>TOTAL M</u>	luseum 23,800	-	23,800	-	-	-	
Theatre							
24003 Theatre-Building Maintenance	123,700		123,700				
24004 Theatre-Stage & Technical Maintenance	72,900		72,900				
TOTAL	Theatre 196,600	-	196,600	-	-	-	
Arts Centres							
24005 Gallery Building Interior Maintenance and Repairs	105,800		105,800				
24006 Gallery Courtyard Repairs	106,800		106,800				
24007 Gallery Masonry Repairs	103,300		103,300				
24008 Gallery McKay House Maintenance	46,800		46,800				
TOTAL Arts (Centres 362,700	-	362,700	-	-	-	
Planning							
24009 2024 Planning & Design Staff	715,900			715,900			
24010 Age Friendly Guideline: Costing Analysis exercise	50,400			50,400			
24011 Biodiversity Strategy	156,400	156,400					
24012 City-wide Urban Design Guidelines	121,900			121,900			
24013 Designated Heritage Prop. Grant ProgResidential -2024	30,000					30,000	Designated Heritage Prop Grant
24014 ePLAN Project Dox Workflows and Monitoring Development Review Processes - Additi	onal fur 235,100					235,100	Development Fees
24015 Heritage Façade Improvements/Sign Replacement - 2024	30,000	30,000					
24016 Markham Centre Secondary Plan	61,100			61,100			
24017 Markham Sustainability Metric: Energy Performance Verif.	95,100					95,100	Development Fees
24018 Markville Secondary Plan (Phase 2 of 2)	80,600			80,600			
24019 Planning for Urban Boundary Expansion Lands	254,400			254,400			
TOTAL P	anning 1,830,900	186,400	-	1,284,300	-	360,200	
Parks Design & Construction							
24020 Community Garden Maintenance	45,800		45,800				
24021 Cornell Centre East Parkette - Design & Construction	1,172,600			1,172,600			
24022 Cornell Centre West Parkette - Design & Construction	402,400			402,400			
24023 Denison Park Table Tennis	10,300			10,300			
24024 Innovation and Songbird Parks - Design & Construction	1,153,300			1,153,300			
24025 James Cochrane Park Phase 2 Expansion - (Des. & Con.)	387,200			387,200			
24026 Park Development Guidelines	181,400			117,910		63,490	Non-DC Growth
24027 Parks Renaissance Planner	122,600			122,600			
24028 Traffic Control Cabinet Wraps	16,400		16,400				
24029 Tree Planting and Engineered Soil Pilot	31,200						Landscape Recovery
24030 Tree Planting in Grand Cornell and South Unionville Parks	14,400						Landscape Recovery
24031 Volleyball in Reesor Park TOTAL Parks Design & Const	ruction 3,684,500		62,200	141,036 3,507,346		5,864 114,954	Landscape Recovery
	<u></u>	-	02,200	5,507,540	-	114,734	
Engineering							
24032 407 Transitway Realignment Justification Study	304,600			304,600			
24033 Apple Creek Blvd Road Safety Improvements (Design & CA)	410,600			266,890		· · · · ·	Non DC Growth/CBC
24034 Cycling and Pedestrian Advisory Committee	28,000			2,800		25,200	Non DC Growth
24035 Elgin Mills -Woodbine to Warden Ave (Property)	28,761,200			28,761,200			
24036 Engineering Staff Salary Recovery	546,200			546,200			

		Total	Tax	Life Cycle	DC - Reserve	Developer	Other	Description of Other Funding
24037 Enterprise Blvd. @ Rouge Valley Dr. Pedestrian Crossi	ng	73,100			73,100			
24271 Main Street Markham Reconst. & Sanit. Sewer Upgrade	e Des.	962,500		770,000	192,500			
24038 Markham Center Trails Phase 4 Design & CA		1,279,300			831,546		447,754	Project 22328 CIP
24039 Markham Centre Trails Phase 3 - Construction &CA		1,403,600			316,420		1,087,180	Project 22328 CIP
24040 Markham Cycles		22,400			2,240		20,160	Non DC Growth
24041 Markham Cycling Day Event		16,800			1,680		15,120	Non DC Growth
24042 Markham School Zone Safety Guideline		335,000			67,000		268,000	Non DC Growth
24043 McCowan Road Culvert Replacement		441,900			,		,	Land Acquisition
24044 Mount Joy Creek Realignment Class EA		365,500			365,500		411,500	Land / requisition
		,			,		02 240	Non DC Crowth/Federal Cront
24045 National Active School Streets Initiative		103,600			10,360		93,240	Non DC Growth/ Federal Grant
24046 New Traffic Signals (Construction)		890,100			890,100			
24047 New Traffic Signals (Design & Construction Administra	ration)	158,400			158,400			
24048 Pedestrian Cross-Over (PXO) Design & Construction		347,200			225,680			Non-DC Growth/CBC
24049 Residential Infill Service Connections		1,679,000					1,679,000	100% Homeowners
24051 Rouge Valley Trails Phase 4B Property Acquisition		335,000			335,000			
24052 Sidewalk Program (Construction)		4,505,500			2,928,576		1,576,924	Non DC Growth/CBC
24053 Smart Commute Markham-Richmond Hill		76,300			76,300			
24054 South Unionville Ave Pavement Marking & Signage		243,700			48,740		194 960	Non DC Growth
24055 Streetlighting Peer Review		75,100			10,710		· · · · ·	Developer
24056 SWM Guidelines Update		94,700			94,700		75,100	Developer
*		· · · · ·		126 500	94,700			
24057 Traffic Assets Replacement		426,500		426,500	25.050		10.050	N DG G 1/6DG
24058 Traffic Operational Improvements		57,000			37,050		19,950	Non DC Growth/CBC
24059 Yorktech extension (Rodick Rd. to Warden Ave) EA	TOTAL Engineering	<u>393,500</u> 44,336,300	-	1,196,500	393,500 36,930,082		6,209,718	=
								_
	TOTAL Development Services	50,682,800	186,400	1,841,800	41,721,728	-	6,932,872	-
ief Administrative Office								
Fire & Emergency Services								
24060 Fire Hose Replacement		32,300		32,300				
24061 Firefighting Tools & Equipment Replacement		79,100		79,100				
24062 Hazardous Materials Replacement		11,400		11,400				
24063 Radio Repeaters and Bone Mic Headsets Replacement		87,100		87,100				
24064 Replacement of Equipment due to Staff Retirements		115,700		115,700				
24065 Rescue Equipment Replacement		10,200		10,200				
24066 Technical Rescue Program - Trench		152,600	152,600	10,200				
24060 Vehicle/Industrial Extrication Modernization		366,300	152,000	366,300				
24007 Venicie/industrial Extrication Modernization	TOTAL Fire & Emergency Services	<u> </u>	152,600	702,100	-	-	-	=
								_
	TOTAL Chief Administrative Officer	854,700	152,600	702,100	-	-	-	-
rporate Services								
IT Services								
24068 ITS - Finance System Modernization		805,900	467,410	338,490				
24069 ITS - Tour App		75,000	45,000				30,000	\$20k MuniAccTax, \$10k Foundation
24070 Museum Wifi		87,900	87,900					
24071 Library - Scheduling Software		50,900					50,900	CF from project 20060
24072 ITS - Auto CAD License or replacement		20,400	20,400					
24073 ITS - Cell Boosters (Community Centres)		53,400	53,400					
24075 ITS - Cloud Storage Backup		26,700		26,700				
24076 ITS - Corporate CRM Systems Implementation		2,238,700		2,238,700				
24077 ITS - ESRI Enterprise License		98,700	19,740	,,00			78.960	Development Fee, Building Fee, WW
24078 ITS - Existing Portal Infrastructure Extension		341,900		273,520				Development Fee, Building Fee, WW
		55,600		215,520				Leveraging Technology
240/9 118 - Front Desk		254,400	203,520					Development Fee, Building Fee, WW
24079 ITS - Front Desk 24080 ITS - IT Consultants 2024								
24080 ITS - IT Consultants 2024			200,020	306 000				
		479,300 534,200	534,200	396,900				\$33k DvlpFee,\$25k WW,\$25k BldgF

# Project Description		Total	Tax	Life Cycle	DC - Reserve	DC - Developer	Other	Description of Other Fundin
Finance								
24083 Insurance Risk Management Software Implementation		54,200	54,200					
24084 Internal Project Management		1,025,100			1,025,100			
	TOTAL Finance	1,079,300	54,200	-	1,025,100	-	-	
Legislative Services								
24085 eScribe Board Manager Plus		21,000	21,000					
	TOTAL Legislative Services	21,000	21,000	-	-	-	-	
Sustainability and Asset Management								
24086 600 Village Parkway - Parking Lot Paving		128,200		98,870			29,330	Jnionville Presbyterian Church
24087 8100 Warden Facility Repair and/or Replacement Projects		158,400		158,400				
24088 Accessibility Retrofit Program		117,300		117,300				
24089 Angus Glen C.C. East Entrance Wall Repair		160,000		160,000				
24090 Angus Glen C.C. Library Window Replacement		270,000		270,000				
24091 Building Automation Systems Replacement Program		1,044,400		1,044,400				
24092 Building Envelope/Structural Review		57,800		57,800				
24093 Centennial C.C. HVAC Replacement		329.300		329.300				
24094 Civic Centre Repair and/or Replacement Projects 24095 Cornell C.C. Exhaust Fan and Overhead Doors Project		1,740,000		1,740,000 200,000				
24095 Corporate Accommodations		200,000 262,600		262,600				
24096 Corporate Accommodations 24097 Corporate Asset Management		262,600 279,800		262,600 72,748			207.052	4% Water Rate, 26% LC
24097 Corporate Asset Management 24098 Corporate Security Operations & System Upgrades		279,800		359,000			207,052	4% water Rate, 26% LC
24098 Corporate Security Operations & System Operates 24099 Designated Substances Management		10,200		10,200				
24009 Designated Substances Management 24100 Facility Energy Management Program		132,300		10,200			132,300	/ECO
24100 Facilities Repair and/or Replacement Projects		327,600		327,600			152,500	MECO
24102 Fire Systems Maintenance at Various City Facilities		30,600		30,600				
24103 Library Facilities Repair and/or Replacement Projects		168,100		168,100				
24104 Municipal Building Backflow Prevention - Annual Testing		52,200		52,200				
24105 Municipal Building Backflow Prevention Survey		41,100		41,100				
24106 Museum - Various Buildings		347,200		347,200				
24107 Operations & Parks Facilities Repair/Replacement Projects		830,900		830,900				
24108 Other Facilities Repair and/or Replacement Projects		25,000		25,000				
24109 Parking Lot Light Replacement		43,100		43,100				
24110 Recycling Depots Repair and/or Replacement Projects		40,800		40,800				
24111 Roofing Maintenance and Repair		163,200		163,200				
24112 Roofing Replacement Projects		813,800		813,800				
24113 Salary Recoveries for staff		1,577,700		1,382,400			195,300	MECO
24114 Satellite Community Centre Repair and/or Replacement		79,600		79,600				
24115 Tennis Clubhouse Repair and/or Replacement Projects		27,500		13,750				Tennis Club
TOTAL Sustai	nability and Asset Management	9,817,700	-	9,239,968	-	-	577,732	
	TOTAL Corporate Services	16,041,000	1,506,770	12,514,278	1,025,100	-	994,852	
unity Services								
Recreation Services		21 00 °						
24116 Aaniin C.C. Dance Studio Wall Refurbishment		21,000		21,000				
24117 Angus Glen C.C. Door Replacement		534,000		534,000				
24118 Angus Glen C.C. Exterior Entrance Interlock Replacement		314,700		314,700				
24119 Angus Glen C.C. Heat Exchanger Replacement		56,000		56,000				
24120 Angus Glen C.C. Lighting Panel Replacement		66,100		66,100				
24121 Angus Glen C.C. Pool Drytron Replacement 24122 Angus Glen Tennis Centre Exit Blocks Replacement		183,400		183,400 48,000				
24122 Angus Glen Tennis Centre Exit Blocks Replacement 24123 Angus Glen Tennis Centre Fire Alarm System Replacement		48,000 22,000		48,000 22,000				
24123 Angus Gien Tennis Centre Fire Alarm System Replacement 24124 Armadale C.C. Expansion Tank Replacement		8,000		22,000 8,000				
24124 Armadare C.C. Expansion Tank Replacement 24125 Camp Chimo Flag Pole Replacement		7,700		7,700				
24125 Camp Chino Flag Fole Replacement 24126 Centennial C.C. Arena Pad Replacement		1,113,500		1,113,500				
		84 500		84 500				
24127 Centennial C.C. Arena Washrooms Refurbishment 24128 Centennial C.C. Mechanical Replacement		84,500 710,800		84,500 710,800				

# Project Description		Total	Tax	Life Cycle	DC - Reserve	DC - Developer	Other	Description of Other Funding
24130 Centennial C.C. Pool Maintenance Equipment Replacement		23,500		23,500				
24131 Centennial C.C. Refrigeration System Replacement		1,250,100		1,250,100				
24132 Clatworthy Arena Expansion Joint Refurbishment		8,700		8,700				
24133 Clatworthy Arena Front Entrance Concrete Replacement		25,000		25,000				
24134 Clatworthy Arena Ice Equipment Replacement		9,600		9,600				
24135 Clatworthy Arena Rubber Floor Replacement		222,700		222,700				
24136 Clatworthy Arena Window Refurbishment		12,000		12,000				
24137 Cornell C.C. Carpet Replacement		172,400		172,400				
24138 Cornell C.C. Parking Structure Annual Maintenance		455,700		455,700				
24139 Cornell C.C. Pool Mechanical System Replacement		264,100		264,100				
24140 Crosby C.C. Arena Boards Replacement		56,100		56,100				
24141 Crosby C.C. Painting Project		55,600		55,600				
24142 Crosby C.C. Windows Replacement		64,500		64,500				
24143 Heintzman House Basement Carpet Replacement		18,500		18,500				
24144 Heintzman House Front Entrance Stone Refurbishment		55,000		55,000				
24145 Markham Village C.C. Fire Panel Replacement		14,400		14,400				
24145 Markham Vinage C.C. File Panel Replacement								
		279,100		279,100				
24147 Milliken Mills C.C. Site Features Phase 1 of 2 - Design		24,600		24,600				
24148 Milliken Mills Soccer Dome LED Lighting Replacement		101,000		101,000				
24149 Mount Joy C.C. Arena Heating Replacement		20,900		20,900				
24150 Mount Joy C.C. Doors Replacement		61,300		61,300				
24151 Mount Joy C.C. Indoor Artificial Turf Replacement		265,800		265,800				
24152 Pan Am Centre Aerial Platform Lift Replacement		20,000		20,000				
24153 Pan Am Centre Gymnasium Blinds Replacement		85,000		85,000				
24154 Pan Am Centre Gymnasium Wood Refinishing		25,000		25,000				
24155 Pan Am Centre Pool Equipment Replacement		20,400		20,400				
24156 Pan Am Centre Reception Counter Replacement		40,000		40,000				
24157 Pingle House Exterior Painting		17,000		17,000				
24158 Recreation AED Program Replacement		10,700		10,700				
24159 Recreation Aquatics Equipment Replacement		88,300		88,300				
24160 Recreation Facility Condition Assessment Project		50,000		50,000				
24161 Recreation Fitness Equipment Replacement		55,100		55,100				
24162 Recreation Lifeguard Chairs Replacement		36,000		36,000				
24163 Recreation Pool Drain Line Inspection		25,000		25,000				
24163 Recreation Pool Grouting Replacement		75,000		75,000				
24165 Recreation Program Equipment Replacement		97,500		97,500				
24166 Recreation Tables and Chairs Replacement								
		55,100		55,100				
24167 Rouge River C.C. Outdoor Pool Interlock Deck Replacement		41,200		41,200				
24168 Rouge River C.C. Wood Floor Refinishing		18,600		18,600				
24169 St. Roberts Soccer Dome Painting Project		27,000		27,000				
24170 St. Roberts Soccer Dome Washroom Counter Replacement		9,000		9,000				
24171 Thornhill C.C. East Rink Arena Netting Replacement		17,000		17,000				
24172 Thornhill C.C. Fitness Spa Replacement		326,500		326,500				
24173 Thornhill C.C. Industrial Kitchen Equipment Replacement		6,000		6,000				
24174 Thornhill C.C. Pro Shop Flooring Replacement		27,000		27,000				
24175 Thornhill C.C. Refrigeration System Replacement		605,000		605,000				
24176 Thornhill C.C. Windows and Walls Refurbishment		82,400		82,400				
24177 Water St. Seniors Centre Flooring Replacement		85,800		85,800				
24178 Water St. Seniors Centre HVAC and Fans Replacement		39,200		39,200				
24179 Water St. Seniors Centre Kitchen Equipment Replacement		9,800		9,800				
2417) water St. Seniors Centre Retenen Equipment Replacement	TOTAL Recreation Services	8,686,500		8,686,500				
	TOTAL Recreation Services	8,080,500	-	8,080,500	-	-	-	
Aarkham Public Library								
24180 Consulting Service for Ward 2 Community Consultation		41,100			41,100			
24181 Library Furniture, Equipment & Shelving Replacement	FAL Markham Public Library	<u>191,100</u> 232,200		191,100 191,100	41,100			
		202,200	-	171,100	41,100	-	-	
Operations - Roads		2 505 200		40,634			3,664,566	
perations - Roaas 24182 Asphalt Resurfacing		3,705,200		40,034			3,004,300 (jas Tax
		3,705,200 88,000		40,634 88,000			3,004,300	jas Tax
24182 Asphalt Resurfacing		-))					3,004,300	jas Tax

# Project Description		Total	Tax	Life Cycle	DC - Reserve	DC - Developer	Other	Description of Other Fundin
24186 City Owned Fence Replacement Program		41,000		41,000				
24187 Citywide Ditching Program		149,800		149,800				
24188 Don Mills Storm Channel		21,500		21,500				
24189 Guiderail- Install/Upgrade		216,800		216,800				
24190 Incremental Growth Related Winter Maintenance Vehicles		486,900			486,900			
24191 Localized Repairs - Curb & Sidewalk		1,411,700		1,411,700				
24192 Localized Repairs - Interlock		191,400		191,400				
24193 Localized Repairs - Parking Lots		110,100		110,100				
24194 Parking Lots- Rehabilitation		150,600		150,600				
24195 Retaining Wall Repair Program		78,700		78,700				
24196 Storm Water Retention Pond Maintenance Program		56,200		56,200				
24197 Survey Instrument Upgrade/Replacement		47,800		47,800				
24198 Survey Monument Replacement		41,600		41,600				
1	TOTAL Operations - Roads	6,846,900	-	2,695,434	486,900	-	3,664,566	=
Operations - Parks								
24199 2022 Wind Storm Tree Replacement - Phase 2		142,900		142,900				
24200 AODA Playground Refurbishments - Year 2 of 4		1,474,800		142,900			1 474 800	Ramp up Reserve
24200 AODA Playground Returbishnents - Tear 2 014 24201 Boulevard/Park Trees Replacement		893,100		893,100			1,474,800	Ramp up Reserve
24202 Bridge Structure Preventative Maintenance in Parks 24203 City Park Furniture / Amenities		27,400		27,400				
24205 City Fark Furniture / Amenities 24204 Court Resurfacing/Reconstruction - Bayview Reservoir		185,700		185,700				
		177,400		177,400			260.000	T CII
24205 Court Resurfacing/Reconstruction/Maintenance		960,000		691,000			269,000	Tennis Clubs
24206 Exercise Equipment and Rubberized Safety Surface		78,000		78,000				
24207 Fence (Backstop and Outfield) Replacement		80,200		80,200				
24208 Fence (Tennis Courts)		96,300		96,300				
24209 Floodlights, Poles & Cross Arms Replacement		789,800		789,800				
24210 Goal Posts Replacement- Pomona Mills Park		8,900		8,900				
24211 Heritage Waste Receptacles		53,800		53,800				
24212 Irrigation Refurbishment or Replacement		34,200		34,200				
24213 Markham Trees for Tomorrow		125,300					125,300	Trees for Tomorrow Reserve
24214 Milliken Mills Park Waterplay Replacement		574,600		574,600				
24215 Mt. Joy Artificial Turf/Grade Beam Replacement		1,010,500		1,010,500				
24216 Pathways Resurfacing		151,300		151,300				
24217 Pickleball Court Lining Project		13,400	13,400					
24218 Playstructure & Safety Surface Replacement		1,347,500					1,347,500	CCBF (Gas Tax)
24219 Relamping & Fixtures Refurbishment		42,500		42,500				× /
24220 Replace Seasonal Containers		17,900		17,900				
24221 Shade Structure Rehabilitation and/or Replacement		231,900		231,900				
24222 Sportsfield Maintenance & Reconstruction		170,700		170,700				
24223 Stairway Repairs		28,600		28,600				
24224 Talc Cabinet Replacement		7,700		7,700				-
	TOTAL Operations - Parks	8,724,400	13,400	5,494,400	-	-	3,216,600	
Operations - Fleet								
24225 Autonomous Mowers		181,100			181,100			
24226 Corporate Fleet Growth		10,200			10,200			
24227 Corporate Fleet Refurbishing		41,200		41,200				
24228 Corporate Fleet Replacement - Fire		191,500		191,500				
24229 Corporate Fleet Replacement - Ice Resurfacing Machine		108,600		108,600				
24230 Corporate Fleet Replacement - Non-Fire		2,879,800		2,879,800				
		326,600					326,600	Waterworks Reserve
24231 Corporate Fleet Replacement - Waterworks		96,700			96,700			
24231 Corporate Fleet Replacement - Waterworks 24232 New Fleet - Parks		113,000			113,000			_
		115,000			401,000	-	326,600	-
24232 New Fleet - Parks	TOTAL Operations - Fleet	3,948,700	-	3,221,100	401,000		520,000	
24232 New Fleet - Parks	TOTAL Operations - Fleet		-	3,221,100	401,000		520,000	
24232 New Fleet - Parks 24233 New Fleet -By-Law and Regulatory Services	TOTAL Operations - Fleet		-	3,221,100 20,400	401,000		520,000	
24232 New Fleet - Parks 24233 New Fleet -By-Law and Regulatory Services Operations - Utility Inspection & ROW	TOTAL Operations - Fleet	3,948,700	-	, ,	401,000		520,000	

# Project Description	Total	Tax	Life Cycle	DC - Reserve	DC - Developer	Other	Description of Other Funding
Environmental Services - Infrastructure							
24236 Bridges and Culverts - Condition Inspection	70,500		70,500				
24237 Streetlights - Miscellaneous Requests	101,900	101,900					
24238 Streetlights - Poles Replacement	134,500	- ,	134,500				
24239 Streetlights Underground Cable Replacement	2,146,100		2,146,100				
24240 Structures Minor Rehabilitation (8 structures)	233,500		233,500				
24241 Structures Program-Full-time Staff	154,400		154,400				
24242 Structures Rehabilitation (4 Structures) - Design & Const.			154,400			2 2 (7 800	CCDE (Content)
	2,367,800 934,100		934,100			2,367,800	CCBF (Gas Tax)
24243 Structures Replacement (3 Structures) Construction TOTAL Environmental Services - Infrastructure	6,142,800	101,900	3.673.100	-		2,367,800	=
	•,,• • •		-,,			_, ,	
Environmental Services - Stormwater							
24244 Don Mills Channel SWM Pond - Construction	8,151,000					8,151,000	SW Fee \$4.89M, DMAF Grant \$3.26
24245 Oil Grit Separators (OGS) - Inspection and Cleaning	133,800		133,800				
24246 Rain Gauge Replacement	15,400		15,400				
24247 Storm and Sanitary Sewer CCTV Inspection	570,000		200,600			369,400	Waterworks Reserve
24248 Storm Sewer Pipes - Rehabilitation	417,300		417,300			,	
24249 Storm Sewer Pipes Emergency Repairs	59,500		59,500				
24250 Stormwater Underground Tanks - Condition Inspection	81,400		81,400				
24251 Swan Lake Chemical Treatment	162,000		162,000				
24251 Swan Eake Chemical Treatment 24252 Technology Assessment for Chloride Treatment - Swan Lake	50,900		50,900				
24253 Water Quality Improvements	77,300		77,300				
24254 Water Quality Monitoring at Swan Lake	31,000		31,000			1 022 600	
24255 Wet SWM Pond Cleaning #50 & #71 - Constr. & CA	1,023,600					1,023,600	CCBF (Gas Tax)
24256 Wet SWM Pond Cleaning ID #55 & #60 - Design TOTAL Environmental Services - Stormwater	<u>114,200</u> 10,887,400		114,200 1,343,400			9.544.000	=
TOTAL Environmental services - Stormwater	10,007,400	-	1,545,400	-	-	9,544,000	
Environmental Services - Waste							
24257 Incremental Growth Related Waste Management Vehicles	108,200			108,200			_
TOTAL Environmental Services - Waste	108,200	-	-	108,200	-	-	_
Environmental Services - Waterworks							
24258 Acoustic Equipment for Sewer Flushing Optimization	40,100					40.100	Waterworks Reserve
24259 Calvert Pump Station - Immediate Process Improvements	363,300					.,	Waterworks Reserve
24259 Calvert Pump Station - Immediate Process Improvements	150,000)	Waterworks Reserve
24200 Carvert runp station - infinediate Structural inprovements 24261 Cathodic Protection of Ductile Iron Watermains	,						
	772,800						Waterworks Reserve
24262 CI Watermain Rehabilitation - Design	621,000						Waterworks Reserve
24263 Curb Box Inspection and Replacement Program	477,500						Waterworks Reserve
24264 District Metered Area (DMA) Equipment Replacement Class 1 (Area 3 &4)	65,800						Waterworks Reserve
24265 Infrastructure Data Analyst - Full Time Staff	114,600						Waterworks Reserve
24266 Sanitary Sewers - Rehabilitation	924,200						Waterworks Reserve
24267 Sanitary System Assessment	114,200					114,200	Waterworks Reserve
24268 Water Sampling Stations Replacement Program	593,700					593,700	Waterworks Reserve
24269 Watermain Leak Detection Program	35,600					35,600	Waterworks Reserve
TOTAL Environmental Services - Waterworks	4,272,800	-	-	-	-	4,272,800	=
	50,109,400	115 200	25 564 524	1 027 200		23,392,366	_
TOTAL Community Services	50,109,400	115,300	25,564,534	1,037,200	-	23,392,366	_
Corporate Wide							
24270 Cyber Security	574,800		122,800		-	452,000	
TOTAL Corporate Wide	574,800	-	122,800	-	-	452,000	
	110 2/2 700	1.0/1.070	40 5 45 5 10	42 50 4 020		21 552 000	_
TOTAL Capital Budget Requests	118,262,700	1,961,070	40,745,512	43,784,028	-	31,772,090	=

Culture

MARKHAM	2024 PROJ	ECT FUNDI	NG REQUEST FO	RM Number:	24001
				Project Cost:	\$248,000
Project Name: Culture P	ublic Art Master	r Plan Implemen	tation Phase 5 of 5	New A	Asset/Expansion
Commission: Developme	ent Services		I	Jseful Life: 0	Pre Approval:
Department: Culture			Category:		i ie rippio vai.
Project Mgr: <u>Niamh O'L</u>	aoghaire			Internal peer review	
Ward(s): CW \checkmark 1	2 3 4		Requirement Validation:	-	
5	6 7 8		-		
DETAILED DESCRIPTIO	ON (SCOPE OF PI	ROJECT):	ITS Involved Project: Is I	TS Consulted? \Box	
With Council's approval of t will be a recurring expense f it will fund annually recurrin Cornell Rouge National Urb	for 5-years to meet to get the second s	he objectives of the 2 of FAÇADE proje	Master Plan, and the goals	of BMFT, all funded	l by reserves. In 20
BUILDING MARKHAM'	S FUTURE TOGI	ETHER: Engaged	d, Diverse & Thriving City		
PROJECT COSTS (\$)	2024	Future Phases	NOTES		
Cost/Quote:	243,700	0	2024 projects: Annually and acquistion for indoor		
Internal Charges:	0	0	phase 2 of Façade Project		
External Consulting:	0	0	\$50,000; Henderson Brid		
Contingency %: 0	0	0	and install new ones) \$95 Gateway Artwork Compo		
Sub Total:	243,700	0	Main Street Unionville Pu		
HST Impact:	4,289	0			
Total Project Cost:	248,000	0			
SOURCE(S) OF FUNDING	G (\$)		Components		
<u>Funding Type</u>	Budget			<u>T(</u>	<u>Future</u> DTAL Phases
Carry Forward	248,000	0	0 0	0	0
TOTAL FUNDING	248,000				0
OPERATING BUDGET I	MPACT Per	sonnel Non Per \$0 \$(Expenditures/(Rev \$0	enues)
DCA/LIFE CYCLE DETA	ILS				
DCA			Amount in	<u>Life Cycle</u>	
Name		Yea	r Amount Study	– Amount in Stu	dv:
				Amount Incl H	
	E 1 ' '01 '		1/	Year in the stu	ıdy
DCA and/or Life Cycle:	Explain if there is	a change in the year	r and/or cost:		
L					

Museum

2024 PROJECT FUNDIN	NG REQUEST FOR	RM N	umber:	24002
Project Name: Museum Maintenance		Project (-	\$23,800 /Replace
Commission: <u>Development Services</u> Department: <u>Museum</u> Project Mgr: Andrea Carpenter	Us Category: M	eful Life: Minor		Pre Approval:
Ward(s): CW \checkmark 1 2 3 4 5 6 7 8 ETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: I Requirement Validation: C ITS Involved Project: Is IT	Condition a	ssessmen	t

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

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Annual radio replacement, 2,400, Pavilion floor staining 2
Cost/Quote:	23,400	0	Markham Fair Ticket Booth painting, 2,000, Mini Putt met
Internal Charges:	0	0	signage, 7,000, Blacksmith Shop antique coal-fired forge, 1
External Consulting:	0	0	
Contingency %: 0	0	0	
Sub Total:	23,400	0	
HST Impact:	412	0	
Total Project Cost:	23,800	0	

SOURCE(S) OF FUNDING (\$)			Compo	nents			F
Funding Type	<u>Budget</u>	Forge	Painting	Radios & Signage		HST TOTAL	<u>Future</u> Phases
Operating Funded Life Cycle	23,800	10,000	4,000	9,400	400	23,800	0
TOTAL FUNDING	23,800				-	23,800	0

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

DCA		mount in	Life Cycle	
Name	Year Amount	Study	Amount in Study:	23,800
			Amount Incl HST	23,800
			Year in the study	202
DCA and/or Life Cycle: Explai	n if there is a change in the year and/or cost:		Year in the study	2024
DCA and/or Life Cycle: Explai	n if there is a change in the year and/or cost:		Year in the study	202

Theatre

MARKHAM	2024 PROJ	ECT FUND	ING REQUEST FO	DRM Number:	24003
Project Name: Theatre-H	Building Mainter	nance		Project Cost:	\$123,700
Commission: Developme	-			Repair	Replace
_	ent Services		T	Useful Life: 20	Pre Approval:
Department: <u>Theatre</u> Project Mgr: Andrew Ro	osenfarb		Category:	Minor	
			Cost Validation:	Third party estimate	
			Requirement Validation:	Condition assessmen	ıt
DETAILED DESCRIPTIO		ΡΟΙΕCΤ)·	ITS Involved Project: Is	ITS Consulted?	
This project consists of repla Countertop, Lobby Crowd C Backstage Floors & Stairwel Structural Metal Sand & Pai BUILDING MARKHAM'	acement/maintenan Control Stanchions, Ils Painting, Lobby nt & 2 Exterior Do	ce of the following Lobby Holiday Dé Ceiling Drywall R or Replacements	ecor, Exterior Landscaping-F	Removal of Degraded	Stone Surround,
PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES Amount requested is cons	sistent with 2024 life o	vcle Useful life
Cost/Quote:	110,500	0	varies depending on item	5-20 years. Floor Scr	ubber (2013)
Internal Charges:	0	0	(\$6,500), Infrared Scan (2 (\$4,500), 15 Lobby Stand		
External Consulting:	0	0	Décor (1999) (\$4,000), L		
Contingency %: 10	11,050	0	Backstage Floor & Stairv	vell Paint (2015) (\$19	,000), Lobby Ceiling
Sub Total:	121,550	0	Drywall (1985) (\$10,000 (\$12,000), Canopy Struct		
HST Impact:	2,139	0	Exterior Door Replaceme		5) (\$20,000), 2
Total Project Cost:	123,700	0			
SOURCE(S) OF FUNDING	G (\$)		Components		
Funding Type	<u>Budget</u>			<u>T0</u>	<u>Future</u> DTAL Phases
Operating Funded Life Cycle	123,700	0	0 0	0	0 0
TOTAL FUNDING	123,700				0 0
OPERATING BUDGET I	MPACT Per		ersonnel Revenues	Expenditures/(Revo \$0	enues)
DCA/LIFE CYCLE DETA	ILS				
DCA			Amount in	Life Cycle	
Name		Ye	ar Amount Study	– Amount in Stu	dy: 410,100
				Amount Incl H	-
				Year in the stu	
	E 1 1 10 1	,	1/	i cai in the Stt	ау <u>202</u> т
DCA and/or Life Cycle:	Explain if there is	a change in the yea	ar and/or cost:		

MARKHAM			NG REQUEST FO	N	umber:	2400	4
				Project (Cost:	\$72,90	0
Project Name: Theatre-S	tage & Technic	cal Maintenance			Repair	/Replace	
Commission: Developme	nt Services			Useful Life:	10	Pre Appro	val· 🗌
Department: <u>Theatre</u>			Category:		10	rie rippio	vai.
Project Mgr: <u>Andrew Ro</u>	senfarb		e :				
Ward(s): CW ☑ 1	2 3 4		Cost Validation				
5	6 7 8		Requirement Validation:	Condition a	ussessmer	nt	
DETAILED DESCRIPTIO	N (SCOPE OF I	PROJECT).	ITS Involved Project: Is	ITS Consulte	ed?□		
	iss, Chauvet Ligh	ting Fixtures.	& Repairs,Piano Bench &			, Asterra Li	ighting
Fixtures, Circle Lighting Tru BUILDING MARKHAM'	ss, Chauvet Ligh	tting Fixtures.	onal Services by Exceptional	People			
Fixtures, Circle Lighting Tru BUILDING MARKHAM' PROJECT COSTS (\$)	ISS, Chauvet Ligh S FUTURE TOC 2024	ting Fixtures. GETHER: Exception <u>Future Phases</u>	onal Services by Exceptional NOTES Amount requested is con	People sistent with 2	024 lifec	ycle.There i	is no
Fixtures, Circle Lighting Tru BUILDING MARKHAM' PROJECT COSTS (\$) Cost/Quote:	ss, Chauvet Ligh S FUTURE TOC <u>2024</u> 65,100	tting Fixtures. GETHER: Exception <u>Future Phases</u> 0	onal Services by Exceptional	People sistent with 2 erating budge	024 lifec t impact.	ycle.There i Useful life	s no varies
Fixtures, Circle Lighting Tru BUILDING MARKHAM' PROJECT COSTS (\$) Cost/Quote: Internal Charges:	ISS, Chauvet Ligh S FUTURE TOC 2024	ting Fixtures. GETHER: Exception <u>Future Phases</u>	NOTES Amount requested is con expected incremental ope from 5-10 years. Clear co Minor ReVoicing (2020)	People sistent with 2 erating budge om batteries ((\$3,000), He	024 lifec t impact. 2017) (\$9 earing Im	ycle.There i Useful life 900), Grand paired Syste	is no varies l Piano em
Fixtures, Circle Lighting Tru BUILDING MARKHAM' PROJECT COSTS (\$) Cost/Quote:	uss, Chauvet Ligh S FUTURE TOC <u>2024</u> 65,100 0	ting Fixtures. GETHER: Exception <u>Future Phases</u> 0 0	NOTES Amount requested is con expected incremental ope from 5-10 years. Clear co Minor ReVoicing (2020) (2010) (\$15,000), 75 Mu	People sistent with 2 erating budge om batteries ((\$3,000), He sisic Stands (2)	024 lifec t impact. 2017) (\$9 earing Im 014) (\$1	ycle.There i Useful life 900), Grand paired Syste 1,000), Vide	s no varies l Piano em eo Mac
Fixtures, Circle Lighting Tru BUILDING MARKHAM' PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting:	ss, Chauvet Ligh S FUTURE TOC <u>2024</u> 65,100 0 0 6,510	ting Fixtures. GETHER: Excepting <u>Future Phases</u> 0 0 0 0 0	onal Services by Exceptional NOTES Amount requested is con expected incremental ope from 5-10 years. Clear co Minor ReVoicing (2020) (2010) (\$15,000), 75 Mu Hardware (2017) (\$3,800 (\$4,000), Piano Bench &	People sistent with 2 erating budge om batteries ((\$3,000), He usic Stands (2')), Rigging In Upright Piar	024 lifec t impact. 2017) (\$9 earing Im 014) (\$1 opsections to Castor	ycle.There i Useful life 900), Grand paired Syste 1,000), Vide s & Repairs s (2000) (\$4	is no varies l Piano em eo Mac (2023) 4,000), 8
Fixtures, Circle Lighting Tru BUILDING MARKHAM' PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting: Contingency %: 10	Iss, Chauvet Ligh S FUTURE TOO 2024 65,100 0 0	ting Fixtures. GETHER: Excepting Future Phases 0 0 0 0 0 0 0 0 0 0 0 0 0	onal Services by Exceptional NOTES Amount requested is con expected incremental ope from 5-10 years. Clear co Minor ReVoicing (2020) (2010) (\$15,000), 75 Mu Hardware (2017) (\$3,800 (\$4,000), Piano Bench & Asterra Lighting Fixtures	People sistent with 2 erating budge om batteries ((\$3,000), He sic Stands (2)), Rigging In Upright Piar s (2005) (\$12.	024 lifec t impact. 2017) (\$9 earing Im 014) (\$1 psections to Castor ,000), Cin	ycle.There i Useful life 900), Grand paired Syste 1,000), Vide s & Repairs 's (2000) (\$4 rcle Lightin	is no varies l Piano em eo Mac (2023) 4,000), 8 g Truss
Fixtures, Circle Lighting Tru BUILDING MARKHAM' PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting: Contingency %: 10 Sub Total:	Iss, Chauvet Ligh S FUTURE TOO 2024 65,100 0 0 6,510 71,610	The second secon	onal Services by Exceptional NOTES Amount requested is con expected incremental ope from 5-10 years. Clear co Minor ReVoicing (2020) (2010) (\$15,000), 75 Mu Hardware (2017) (\$3,800 (\$4,000), Piano Bench &	People sistent with 2 erating budge om batteries ((\$3,000), He sic Stands (2)), Rigging In Upright Piar s (2005) (\$12.	024 lifec t impact. 2017) (\$9 earing Im 014) (\$1 psections to Castor ,000), Cin	ycle.There i Useful life 900), Grand paired Syste 1,000), Vide s & Repairs 's (2000) (\$4 rcle Lightin	is no varies l Piano em eo Mac (2023) 4,000), 8 g Truss
PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting: Contingency %: 10 Sub Total: HST Impact:	Iss, Chauvet Ligh S FUTURE TOO 2024 65,100 0 0 6,510 71,610 1,260 72,900	ting Fixtures. GETHER: Excepting Future Phases 0 0 0 0 0 0 0 0 0 0 0 0 0	onal Services by Exceptional NOTES Amount requested is con expected incremental ope from 5-10 years. Clear co Minor ReVoicing (2020) (2010) (\$15,000), 75 Mu Hardware (2017) (\$3,800 (\$4,000), Piano Bench & Asterra Lighting Fixtures	People sistent with 2 erating budge om batteries ((\$3,000), He sic Stands (2)), Rigging In Upright Piar s (2005) (\$12.	024 lifec t impact. 2017) (\$9 earing Im 014) (\$1 psections to Castor ,000), Cin	ycle.There i Useful life 900), Grand paired Syste 1,000), Vide s & Repairs s (2000) (\$4 rcle Lightin res (2002) (\$	is no varies l Piano em eo Mac (2023) 4,000), 8 g Truss

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Ending TypeBudgetTOTALPhasesOperating Funded Life Cycle72,9000000TOTAL FUNDING72,90000000

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

DCA	Amount in	Life Cycle
Name	Year Amount Study	Amount in Study: 410,100
		Amount Incl HST 72,900
		Year in the study 2024
	there is a change in the year and/or cost:	

Arts Centres

MARKHAM	2024 PROJ	ECT FUNDI	NG REQUEST FO	DRM Number:	24005
Project Name: Callery P		Maintonanaa an	d Dan ains	Project Cost:	\$105,800
Project Name: Gallery B	0			Repair	r/Replace
Commission: <u>Developme</u>			I	Useful Life: 20	Pre Approval:
Department: <u>Arts Centre</u> Project Mgr: <u>Niamh O'La</u>			Category:	Minor	
			Cost Validation:	Third party estimate	;
			Requirement Validation:	Visual inspection	
DETAILED DESCRIPTIO		ROJECT):	ITS Involved Project: Is	ITS Consulted? \Box	
Maintenance of primary even covers) to ensure a safe and o attract renters, program parti BUILDING MARKHAM'	nt space (the Deaco excellent customer cipants and the ger	on Room) and mech experience appropr neral public.			
			NOTES		
PROJECT COSTS (\$)	<u>2024</u>	Future Phases	The Gallery's main comm		
Cost/Quote:	103,922	0	Room, whose floor is nov particularly highlighted n		
Internal Charges: External Consulting:	0	0 0	resurfaced. To ensure an	excellent experience f	for renters, program
Contingency %: 0	0	0	attendees and to facilitate resurfaced like the adjace		
Sub Total:	103,922	0	Mechanical Room Supply	y Air Fan-3 \$53,500 c	ontractor quote;
HST Impact:	1,829	0	Radiation Heating covers contractor estimate, \$21,9		
Total Project Cost:	105,800	0	staff estimate		, , , , , , , , , , , , , , , , , , ,
SOURCE(S) OF FUNDING	G (\$)		Components		D /
Funding Type	Budget	<u>Floor (+HST)</u>	Fan (+HST)Heating cov(+H)		<u>Future</u> DTAL <u>Phases</u>
Operating Funded Life Cycle	105,800	25,450	54,450 22,300	3,600 10:	5,800 0
TOTAL FUNDING	105,800			10	5,800 0
	Pe	rsonnel Non Pe	rsonnel Revenues	Expenditures/(Rev	enues)
OPERATING BUDGET IN	MPACT	\$0 \$		\$0	
DCA/LIFE CYCLE DETA	ILS				
DCA			Amount in	<u>Life Cycle</u>	
Name		Yea	ar Amount Study	 Amount in Stu 	dy: 357,500
				Amount Incl H	•
				Year in the stu	
DCA and/or Life Cycle:	Fynlain if there is	a change in the year	r and/or cost.		-
		a change in the yea	a ana/01 005t.]

2024 PROJECT FUND	DING REQUEST FORM Number: 24006
Project Name: Gallery Courtyard Repairs	Project Cost: \$106,800 Repair/Replace
Commission: Development Services Department: Arts Centres Project Mgr: Niamh O'Laoghaire	Useful Life: 20 Pre Approval:
Ward(s): $CW \swarrow 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$	Cost Validation: Recent awards Requirement Validation: Condition assessment ITS Involved Project: Is ITS Consulted?
DETAILED DESCRIPTION (SCOPE OF PROJECT):	

The Varley Art Gallery exterior requires major maintenance of courtyard pavers, which have degraded over time. They are in poor repair, a visual blight and Health & Safety hazard. Implementation at this time will align with both the schedule and design of the N

repair, a visual blight and Health & Safety hazard. Implementation at this time will align with both the schedule and design of the Main Street Unionville Restructuring and create a seamless look within this important heritage district and tourism destination.

BUILDING MARKHAM'S FUTURE TOGETHER: Stewardship of Money & Resources

106,800

PROJECT COSTS (\$)	<u>2024</u>	Future Phases		ne courtyard and			
Cost/Quote: Internal Charges:	100,000 0	0	schedule and d	eximately 2,300 sign of the Ma			
External Consulting:	0	0	Project: \$100,	000			
Contingency %: 5	5,000	0					
Sub Total:	105,000	0					
HST Impact:	1,848	0					
Total Project Cost:	106,800	0					
SOURCE(S) OF FUNDING	G (\$)		Compon	ents			E (
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> Phase
Operating Funded Life Cycle	106,800	0	0	0	0	0	

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

DCA/LIFE CYCLE DETAILS

TOTAL FUNDING

DCA		Amount in	<u>Life Cycle</u>	
Name	Year Amount	Study	Amount in Study:	357,500
			Amount Incl HST	106,800
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cost:		Year in the study	2018
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cost:		Year in the study	2018
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cost:		Year in the study	2018

0

0

MARKHAM	2024 PROJ	IECT F	UNDI	NG RE	QUEST F	ORM N	umber	: 24	007
Project Name: Gallery M	aconey Donaire					Project	Cost:	\$103	,300
Ganery M	asonry Repairs						Repai	ir/Replace	e
Commission: Developmen	nt Services					Useful Life:	20	Pre An	proval: 🗌
Department: Arts Centres					Category			P	P10.011
Project Mgr: <u>Michael Ry</u>	an				Cost Validation		. astimat	2	
Ward(s): CW \checkmark 1	2 3 4								
5 🗌	6 7 8			-	ment Validation		_	ent	
DETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):	:	ITS Invo	olved Project: Is	s ITS Consult	ed?∟		
BUILDING MARKHAM'S	S FUTURE TOG	ETHER:	Stewarc	lship of Mo	ney & Resources				
PROJECT COSTS (\$)	2024	Future P	hases	NOTES			1		
Cost/Quote:	92,300		0		n the exterior of ntly through del				
Internal Charges:	0		0	need to b	be repaired and	the building e	xterior s	ealed to e	ensure
External Consulting:	0		0		of the building				ppropriate
Contingency %: 10	9,230		0		emperatures and	u relative nun	nany. 55	2,300	
Sub Total:	101,530		0						
HST Impact:	1,787		0						
Total Project Cost:	103,300		0						
SOURCE(S) OF FUNDING	(\$)			Co	mponents				Future
Funding Type	<u>Budget</u>						T	OTAL	<u>Phases</u>
Operating Funded Life Cycle	103,300		0	0	0		0	0	
TOTAL FUNDING	103,300							0	
OPERATING BUDGET IN	APACT Per	rsonnel	Non Per	rsonnel	Revenues	Expenditu	res/(Rev	venues)	
OI ERATING DUDGET IN		\$0	\$(0	\$0		\$0		
DCA/LIFE CYCLE DETAI	LS								

 Name
 Year
 Amount
 Study

 Amount in Study:
 357,500

 Amount Incl HST
 103,300

 Year in the study
 2024

2024 PROJECT FUNL	DING REQUEST FORM Number	r: 24008
Project Name: Gallery McKay House Maintenance	Project Cost:	\$46,800
	Repa	air/Replace
Commission: Development Services Department: Arts Centres Project Mgr: Niamh O'Laoghaire	Useful Life: 20 Category: Minor	Pre Approval:
Ward(s): $CW \square 1 \square 2 \square 3 \checkmark 4 \square$	Cost Validation: Internal peer revie	W
$5 \square 6 \square 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	Requirement Validation: Visual inspection ITS Involved Project: Is ITS Consulted?	
Maintain the interior and exterior of the McKay Art Centre to en	sure that it is a safe attractive and welcoming env	vironment annronriate

Maintain the interior and exterior of the McKay Art Centre to ensure that it is a safe, attractive and welcoming environment appropriate to a cultural institution in the heart of a major heritage and tourism neighbourhood. Contract an AODA consultant to ensure that a comprehensive, staged roadmap to improve the accessibility infrastructure of an 1850s heritage house and gardens which has numerous barriers to accessibility.

BUILDING MARKHAM'S FUTURE TOGETHER: Stewardship of Money & Resources

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Repaint exterior steps railing \$15,000; Refurbish interior staircases
Cost/Quote:	31,000	0	basement to main floor and main floor to second floor, replacing
Internal Charges:	0	0	low handrails: \$16,000; The building and gardens have accessibility issues: the garden is terraced and there is no ramp to access the
External Consulting:	15,000	0	various tiers within the garden. There is no accessibility access to
Contingency %: 0	0	0	the garden from Main Street. There is an accessibility washroom in
Sub Total:	46,000	0	the basement, but no wheelchair access to it, etc. Consultant \$15,00
HST Impact:	810	0	
Total Project Cost:	46,800	0	

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING	<u>(\$)</u>		Compon	ents			F 4
<u>Funding Type</u>	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	46,800	0	0	0	0	0	0
TOTAL FUNDING	46,800					0	0

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

Name	Year Amount Study	
		Amount in Study: 56,30
		Amount Incl HST 46,80
		Year in the study 202
OCA and/or Life Cycle: Explain if there	is a change in the year and of cost	

Planning

MARKHAM						Number:	<i>L</i> 4	009
Project Name: 2024 Plann	ning & Design §	Staff			I	Project Cost:	\$715	,900
	0 0					Studie	s/Pilot P	rograms
Commission: <u>Developmen</u>	t Services				Usef	ul Life: 0	Pre Ap	proval: 🗆
Department: <u>Planning</u>					Category: An	nual		
Project Mgr: <u>Giulio Cesca</u>					· · ·	ernal peer review		
	2 3 4		R			her(specify in Not		
	6 7 8		רז	-	Project: Is ITS (
DETAILED DESCRIPTION			:		5			
The purpose is to recover sala	nes of Flamming a	nu Utbali L	Jesigii Stari	WIIICH IEIale	to growin relati	ed works.		
BUILDING MARKHAM'S	FUTURE TOG	ETHER:	Exceptiona	l Services by E	Exceptional People	le		
PROJECT COSTS (\$)	2024	Future P	nacec	NOTES				
Cost/Quote:	0	<u> </u>	A			is spent by planne) and urban design		
Internal Charges:	715,942					ch as roads, storm		
External Consulting:	0		bi	ridges etc. du	ring the subdiv	ision and seconda	ary plan	process a
Contingency %: 0	0		111	in one-off construction projects such as bridge construction and street re-construction. This project is to recover salaries of exis				
Sub Total:	715,942					of growth related		
HST Impact:	0		0					
Total Project Cost:	715,900		0					
GOURCE(S) OF FUNDING			L	Compone	ents			
Funding Type	<u>Budget</u>					TC	DTAL	<u>Future</u> <u>Phases</u>
			0	0	0	0	0	
DCA	715,900		0	0	0	0	0	
TOTAL FUNDING	715,900						0	
OPERATING BUDGET IM	<u>IPACT</u> Per		Non Person			penditures/(Reve	enues)	
		\$0	\$0	3	\$0	\$0		
DCA/LIFE CYCLE DETAII	LS							
<u>DCA</u>			₹7		mount in	<u>Life Cycle</u>		
Name	TT Ctaling Voni	- Ctadiag	Year	Amount	Study	Amount in Stud	dy:	
GENERAL GOVERNMEN	1 - Studies - vario	us Studies	2024	715,900	2,165,000	Amount Incl H		
TOTAL FUNDING				715,900	2,165,000	Year in the stu		
DCA and/or Life Cycle: 1			_					

GK.

Number: 24010

D		Project C	Cost:	\$50,400	
	Age Friendly Guideline: Costing Analysis	sexercise		Studi	es/Pilot Programs
Commission: Department:	Development Services	τ	Jseful Life:	0	Pre Approval:
Project Mgr:	5	Category:			
Ward(s):	CW 🗹 1□ 2□ 3□ 4□	Cost Validation:	Internal pee	r reviev	V
	5 6 7 8	Requirement Validation:		·	otes)
DETAILED DH	ESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulted	1? □	
The Age Eriand	Ly Design Cyridelines was annewed by Council in	November 2022 To response	d to Council I	Simostic	n #1 and #5 from

The Age-Friendly Design Guidelines was approved by Council in November 2022. To respond to Council Direction #4 and #5 from November 8, Staff will form a Working Group to prepare a Request for Proposal and retain a consultant to complete a cost analysis of implementing the "City of Markham – Age-Friendly Design Guidelines" in the public realm. Staff will report back to Development Services Committee upon completion of the cost analysis study (targeting Q4 2024). The study will identify costing for implementing age-friendly design, such as additional benches, washrooms in parks, wider non-standard sidewalk widths, and bicycle repair stations. These elements support city growth and an inclusive and age-friendly community, in particular, for our aging population and young children. In addition, these elements will support current and new city growth and infrastructure decision.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES This is a request for budget to retain a consultant to complete a cos
Cost/Quote:	0	0	analysis to review the cost impacts of applying age-friendly design
Internal Charges:	0	0	measures in public realm to a demonstration site in Markham
External Consulting:	45,000	0	Centre.
Contingency %: 10	4,500	0	
Sub Total:	49,500	0	
HST Impact:	871	0	
Total Project Cost:	50,400	0	
SOURCE(S) OF FUNDING	<u> (\$)</u>		Components
Funding Type	Dudget		<u>Future</u> TOTAL Phagag

Funding Type	Budget					TOTAL	<u>Phases</u>
DCA	50,400	0	0	0	0	0	0
TOTAL FUNDING	50,400					0	0

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

DCA/LIFE CYCLE DETAILS

RKHAM

<u>DCA</u> Name	Year	Amount	mount in Study	Life Cycle
GENERAL GOVERNMENT - Studies - Various Studies	2024	50,400	2,165,000	Amount in Study:
TOTAL FUNDING		50,400	2,165,000	Amount Incl HST
				Year in the study

Number: 24011

			Project (Cost:	\$156,400
Project Name: Biodiversity Strategy			Studie	es/Pilot Programs	
	Development Services	τ	Jseful Life:	0	Pre Approval:
Department: Project Mgr:	Planning Patrick Wong	Category:	Minor		
	CW ☑ 1 □ 2 □ 3 □ 4 □	Cost Validation:			
	5 6 7 8	Requirement Validation:	• 1	-	otes)
DETAILED DI	ESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulte	d? □	

A planned deliverable of the BMFT Strategic Plan 2020-2026 is the development of a wildlife and biodiversity strategy. This study is necessary to create a City-wide action plan to protect biodiversity and to support the many nature-based ecosystem services that the City relies upon including clean air, fresh water, carbon sequestration and resiliency against extreme heat and floods. Due to Bill 23, the City now has taken over primary responsibility for biodiversity and no longer have full access to the technical expertise of the TRCA. This study will provide the scientific analysis and recommendations to protect biodiversity against high development pressures and habitat alteration. This may include updates to Official Plan policies, development standards/guidelines, City environmental programs, partnerships, public outreach and best management practices.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This project is a specific action in the BMFT Strategic Plan 2020
Cost/Quote: Internal Charges: External Consulting:	0 0 139,725	0 0 0	2026. The public consultation component of the Biodiversity Strategy will support the OP Review policy directions and respon to the new technical responsibilities that have been downloaded to the City as a result of Bill 23.
Contingency %: 10 Sub Total: _ HST Impact: _ Total Project Cost:	13,972 153,697 2,705 156,400		
= SOURCE(S) OF FUNDING			Components

SOURCE(S) OF FUNDING	<u>r (\$)</u>		Compon	ents			Entra
<u>Funding Type</u>	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Tax	156,400	0	0	0	0	0	0
TOTAL FUNDING	156,400					0	0

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

DCA/LIFE CYCLE DETAILS

ARKHAM

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



Number: 24012

		Project C	ost:	\$121,900	
Project Name: City-wide Urban Design Guidelines			Studie	es/Pilot Programs	
Commission: Development Services	L	Jseful Life:	0	Pre Approval:	
Department: Planning		2.6			
Project Mgr: Abbie Kar	Category:				
Ward(s): CW \checkmark 1 \square 2 \square 3 \square 4 \square	Cost Validation:	Internal pee	r review	1	
	Requirement Validation:	Other(specif	y in No	tes)	
5 6 7 8	ITS Involved Project: Is I		10		
DETAILED DESCRIPTION (SCOPE OF PROJECT):	115 Involved Project: Is I	15 Consulted	1? 🗆		
The city-wide Urban Design Guidelines (UDG) will adhere and reinforce Markham's Official Plan policies by providing a clear vision nd design guidelines for new developments, particularly in light of recent Bill 23's changes to the Planning Act which removed					

and design guidelines for new developments, particularly in light of recent Bill 23's changes to the Planning Act which removed Architectural details and landscape design aesthetics from the scope of site plan control. The Guidelines will help implement the framework of Markham's Official Plan and bolster the City's urban design objectives by providing clear design guidance for the development industry, staff, and the broader community on neighborhood planning, building placement and orientation, height and massing, and the public realm. The UDG provides design guidance for public and private development which will inform infrastructure, servicing, and growth related decisions. The UDG provide design guidance for building placement, massing, and other design aspects related to development to support complete sustainable communities.

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

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The requirements for the completion of Markham's City-wide
Cost/Quote:	0	0	Urban Design Guidelines will focus on updating and consolidating
Internal Charges: External Consulting: Contingency %: 10	10,000 100,000 10,000	0 0 0	several existing draft guideline documents. There will be a series of internal and external stakeholder consultations to inform the outcome of the Guidelines. Upon project completion, Staff will report to Council for endorsement. The budget has been reduced
Sub Total: HST Impact: Total Project Cost:	120,000 1,936 121,900	0 0 0	and scoped as Staff will be completing the overall study and retaining an external consultant to peer review and provide additional input as needed.

SOURCE(S) OF FUNDING	<u>NG (\$)</u>			Components				<u>Future</u>
Funding Type	Budg	<u>et</u>					TOTAL	<u>Phases</u>
			0	0	0	0	0	0
DCA	121,90	0	0	0	0	0	0	0
TOTAL FUNDING	121,90	0				:	0	0
OPERATING BUDGET IMI	РАСТ	Personnel	Non Personr	nel	Revenues	Expenditures	/(Revenues)	
OI ENATING DUDGET IM		\$0	\$0		\$0	\$0)	

DCA/LIFE CYCLE DETAILS

ARKHAM

<u>DCA</u> Name	Year	Amount	mount in Study	Life Cycle
GENERAL GOVERNMENT - Studies - Various Studies	2024	121,900	2,165,000	Amount in Study:
TOTAL FUNDING		121,900	2,165,000	Amount Incl HST
				Year in the study

2024 PROJECT FUNDING REQUEST FORM ARKHAM Number: 24013 **Project Cost:** \$30,000 Project Name: Designated Heritage Prop. Grant Prog.-Residential -2024 Studies/Pilot Programs Commission: Development Services Pre Approval: Useful Life:

Department: Planning	
Project Mgr: Regan Hutcheson	Category: Major
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Other(specify in Notes)
	Requirement Validation: Other(specify in Notes)
	ITS Involved Project: Is ITS Consulted?
DETAILED DESCRIPTION (SCOPE OF PROJECT):	5

Grant assistance (50/50) to a maximum of \$5,000/property for restoration work on designated residential properties. Program is proposed to be extended for three years (2023-2025) subject to Council approval later this year

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

PROJECT COSTS (\$)	<u>2024</u>	Future Phases
Cost/Quote:	30,000	0
Internal Charges:	0	0
External Consulting:	0	0
Contingency %: 0	0	0
Sub Total:	30,000	0
HST Impact:	0	0
Total Project Cost:	30,000	0

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING	<u> (\$)</u>		Compone	ents			D 4
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Heritage Reserve	30,000	0	0	0	0	0	0
TOTAL FUNDING	30,000					0	0

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

<u>CA</u> Tame	Amou Year Amount Stu	ınt in <u>Life Cycle</u> ıdy
ant		Amount in Study:
		Amount Incl HST
CA and/or Life Cycle: Explain if th	ere is a change in the year and/or cost:	Year in the study

MARKHAM			014
Project Name: ePLAN Project Dox Workflows and Monitoring Development	Project Cost:	\$235	,100
Commission: Development Services	- Nev Useful Life: 0	v Asset/Exp	pansion proval: \Box
Department: <u>Planning</u> Project Mgr: John Yeh Catego	ory: Minor	•	L
Ward(s): $_{CW} \checkmark _{1} \bigcirc _{2} \bigcirc _{3} \bigcirc _{4} \bigcirc$ Cost Validat	ion: Internal peer revi	ew	
$5 \square 6 \square 7 \square 8 \square$ Requirement Validat	ion: Condition assessm	nent	
DETAILED DESCRIPTION (SCOPE OF PROJECT): ITS Involved Project	: Is ITS Consulted? 🗹		
Cost/Quote:130,0000professional servicesInternal Charges:000External Consulting:80,0000Dox and other City seContingency %: 1021,0000for an other consultantSub Total:231,0000and other City applic	et Dox software vendor resourcing resulting fro onal People apital budget for the pr from the Project Dox v ltant to assist with intego oftware. Through the 20 requested for profession t to provide integration ations, and \$50,000 for nt application processes	The proje m Bill 109 oject is \$10 rendor and gration betw 024 capital onal service between P software to	ct also and 00,000 for \$100,000 veen Project budget an es, \$80,000 roject Dox o monitor
SOURCE(S) OF FUNDING (\$) Components			<u>Future</u>
Funding Type Budget		TOTAL	Phases
Development Fees 235,100 0 0	0 0	0	0
TOTAL FUNDING 235,100		0	0

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

<u>DCA</u>	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study:
		Amount Incl HST
		Year in the study
	f there is a change in the year and/or cost:	

MARKHAM	2024 PRO	JECT FUND	NG REQUEST FO	Number:	24015
				Project Cost:	\$30,000
Project Name: Heritage I	Façade Improv	vements/Sign Rep	lacement - 2024	Studi	es/Pilot Programs
Commission: Developme	nt Services		I	Jseful Life:	Pre Approval:
Department: Planning					rie Appiovai.
Project Mgr: Regan Hutc	heson		Category:		
Ward(s): $_{CW} \checkmark _1 \square$	2 3 4]	Cost Validation:	Other(specify in No	otes)
	6 7 8]	Requirement Validation:	Other(specify in No	otes)
5 🗆	6 / 8	J			
DETAILED DESCRIPTIO Annual grants to commercial non-heritage and up to \$15,0	N (SCOPE OF	s in heritage areas to	-	des. Matching grant of	-
Annual grants to commercial non-heritage and up to \$15,0	DN (SCOPE OF property owners 00 for heritage b	s in heritage areas to buildings. Approval w	make improvements to facao	des. Matching grant of	-
Annual grants to commercial non-heritage and up to \$15,0 BUILDING MARKHAM'	DN (SCOPE OF property owners 00 for heritage b	s in heritage areas to buildings. Approval w	make improvements to facace vill allow City to continue wi Sustainable Community	des. Matching grant of ith the program, as an	pproved by Council.
Annual grants to commercial non-heritage and up to \$15,0 BUILDING MARKHAM'	ON (SCOPE OF l property owners 00 for heritage b S FUTURE TO	s in heritage areas to buildings. Approval w GETHER: Safe &	make improvements to facace vill allow City to continue wi Sustainable Community	des. Matching grant of ith the program, as ap or 2024, the amount b	pproved by Council.
Annual grants to commercial non-heritage and up to \$15,0 BUILDING MARKHAM' PROJECT COSTS (\$) Cost/Quote:	ON (SCOPE OF l property owners 00 for heritage b S FUTURE TO 2024	s in heritage areas to buildings. Approval w GETHER: Safe & <u>Future Phases</u>	make improvements to facate vill allow City to continue with Sustainable Community NOTES It is recommended that for eligible grant requests fro Council awarded \$30,600	des. Matching grant of ith the program, as ap or 2024, the amount b om 2021 (\$42,000) ar) in 2021 and \$25,000	be \$30,000 based on ad 2022 (\$43,000). 0 in 2022. Requests
Annual grants to commercial non-heritage and up to \$15,0 BUILDING MARKHAM' PROJECT COSTS (\$)	IN (SCOPE OF property owners 00 for heritage b S FUTURE TO 2024 30,000	s in heritage areas to buildings. Approval w GETHER: Safe & <u>Future Phases</u> 0	make improvements to facate rill allow City to continue with Sustainable Community NOTES It is recommended that for eligible grant requests fro Council awarded \$30,600 have increased substantia	des. Matching grant of ith the program, as ap or 2024, the amount b om 2021 (\$42,000) ar) in 2021 and \$25,000 Ily in last two years.	be \$30,000 based on ad 2022 (\$43,000). 0 in 2022. Requests Category is Major a
Annual grants to commercial non-heritage and up to \$15,0 BUILDING MARKHAM' PROJECT COSTS (\$) Cost/Quote: Internal Charges:	N (SCOPE OF property owners 00 for heritage b S FUTURE TO <u>2024</u> 30,000 0	s in heritage areas to buildings. Approval w GETHER: Safe & <u>Future Phases</u> 0 0	make improvements to facate vill allow City to continue with Sustainable Community NOTES It is recommended that for eligible grant requests fro Council awarded \$30,600	des. Matching grant of ith the program, as ap or 2024, the amount b om 2021 (\$42,000) ar) in 2021 and \$25,000 Ily in last two years.	be \$30,000 based on ad 2022 (\$43,000). 0 in 2022. Requests Category is Major a
Annual grants to commercial non-heritage and up to \$15,0 BUILDING MARKHAM' PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting:	DN (SCOPE OF l property owners 00 for heritage b S FUTURE TO 2024 30,000 0 0	s in heritage areas to buildings. Approval w GETHER: Safe & <u>Future Phases</u> 0 0 0 0	make improvements to facate rill allow City to continue with Sustainable Community NOTES It is recommended that for eligible grant requests fro Council awarded \$30,600 have increased substantia	des. Matching grant of ith the program, as ap or 2024, the amount b om 2021 (\$42,000) ar) in 2021 and \$25,000 Ily in last two years.	be \$30,000 based on ad 2022 (\$43,000). 0 in 2022. Requests Category is Major a
Annual grants to commercial non-heritage and up to \$15,0 BUILDING MARKHAM' PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting: Contingency %: 0	N (SCOPE OF property owners 00 for heritage b S FUTURE TO 2024 30,000 0 0 0	s in heritage areas to buildings. Approval w GETHER: Safe & <u>Future Phases</u> 0 0 0 0 0	make improvements to facate rill allow City to continue with Sustainable Community NOTES It is recommended that for eligible grant requests fro Council awarded \$30,600 have increased substantia	des. Matching grant of ith the program, as ap or 2024, the amount b om 2021 (\$42,000) ar) in 2021 and \$25,000 Ily in last two years.	be \$30,000 based on ad 2022 (\$43,000). 0 in 2022. Requests Category is Major a

SOURCE(S) OF FUNDING (\$) Components <u>Future</u> <u>Phases</u> Funding Type **TOTAL Budget** Tax 0 0 0 0 30,000 0 0 0 TOTAL FUNDING 30,000 0

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

<u>DCA</u>				Amount in	Life Cycle
Name		lear	Amount	Study	Amount in Study:
					Amount Incl HST
					Year in the study
DCA and/or Life Cycle: Explai	n if there is a change in the	year ai	nd/or cost:		Year in the study
DCA and/or Life Cycle: Explai	n if there is a change in the	year ai	nd/or cost:		Year in the study
DCA and/or Life Cycle: Explai	n if there is a change in the	year a	nd/or cost:		Year in the study
DCA and/or Life Cycle: Explai	n if there is a change in the	year ai	nd/or cost:		Year in the study

MARKHAM 2024 PROJECT FUNI	~		Number:	24016
Project Name: Markham Centre Secondary Plan		Proj	ect Cost:	\$61,100
			Studie	s/Pilot Programs
Commission: Development Services Department: Planning		Useful Li	ife: 0	Pre Approval:
Project Mgr: Stephen Lue	Category:	: Major		
Ward(s): $_{CW} \square 1 \square 2 \checkmark 3 \checkmark 4 \square$	Cost Validation	: Other(s	specify in Not	tes)
5 G G 7 8 ₹	Requirement Validation:	: Other(s	specify in Not	es)
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is	ITS Con	sulted? \Box	
he Markham Official Plan requires preparation of a new Secon	ndary Plan for Markham Centr	re.		

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

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES Additional funds are required to complete the Secondary F
Cost/Quote:	0	0	including additional engagement, policy development and
Internal Charges:	0	0	
External Consulting:	60,000	0	
Contingency %: 0	0	0	
Sub Total:	60,000	0	
HST Impact:	1,056	0	
Total Project Cost:	61,100	0	

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING (\$)		Components					E4
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
		0	0	0	0	0	0
DCA	61,100	0	0	0	0	0	0
TOTAL FUNDING	61,100				=	0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
<u>OTERATING DEDGET IMPACT</u>	\$0	\$0	\$0	\$0

DCA/LIFE CYCLE DETAILS

<u>DCA</u>		А	mount in	Life Cycle
Name	Year	Amount	Study	Amount in Study
GENERAL GOVERNMENT - Studies - Various Studies	2024	61,100	2,165,000	Amount in Study:
TOTAL FUNDING		61,100	2,165,000	Amount Incl HST
				Year in the study

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

Funds are included in the studies section of the DC Background Study.
The second se						Number:	24	017
Project Name: Markham	Suetoinohility	Motric: F	noray D	arformance	Vorif	Project Cost:	\$95,	,100
	-	Methe, E	anci gy i v			Studie	es/Pilot F	Programs
Commission: <u>Development</u>	nt Services				τ	Jseful Life: 0	Pre Ap	proval: [
Department: <u>Planning</u> Project Mgr: TBD					Category:	Major		
	2 3 4			Co	st Validation:	Internal peer review	1	
				Requiremen	t Validation:	Other(specify in No	tes)	
DETAILED DESCRIPTIO		PROJECT)	:	ITS Involve	d Project: Is I	TS Consulted?		
The purpose of the Enery Per aligned with Council's endor BUILDING MARKHAM'S	rsement of a pathy	way to net ze	ero energy		2030.	erformance standards	for buil	dings
PROJECT COSTS (\$)				NOTES				
	<u>2024</u>	<u>Future P</u>		The study w		nd recommend an app		
Cost/Quote:	0		0 0			ildings through the dependent of the dependent of the second seco	evelopm	ent
Internal Charges: External Consulting:	85,000		0	11	1			
Contingency %: 10	8,500		0					
Sub Total:	93,500		0					
			-					
HST Impact:	1,646		0					
HST Impact: Total Project Cost:	1,646 95,100		0 0					
Total Project Cost:	95,100			Comp	onents			Future
Total Project Cost: = OURCE(S) OF FUNDING	95,100			Comp	onents	<u>T(</u>	DTAL	
Total Project Cost:	95,100 <u>G_(\$)</u>			Comp	onents 0	T (DTAL 0	
Total Project Cost:	95,100 <u>G (\$)</u> <u>Budget</u>	 	0					
Total Project Cost:	95,100 <u>5 (\$)</u> <u>Budget</u> 95,100 <u>95,100</u> P		0	0			0	
Total Project Cost:	95,100 <u>5 (\$)</u> <u>Budget</u> 95,100 <u>95,100</u> P		0 0	0 sonnel R	0	0	0	
Total Project Cost: COURCE(S) OF FUNDING Funding Type Development Fees TOTAL FUNDING OPERATING BUDGET IN	95,100 <u> 95,100</u> <u> Budget</u> 95,100 <u> 95,100</u> 95,100 Po MPACT	ersonnel	0 0 Non Pers	0 sonnel R	0 evenues	0 Expenditures/(Rev	0	
Total Project Cost: COURCE(S) OF FUNDING Funding Type Development Fees TOTAL FUNDING OPERATING BUDGET IN	95,100 <u> 95,100</u> <u> Budget</u> 95,100 <u> 95,100</u> 95,100 Po MPACT	ersonnel	0 0 Non Per: \$0	0 sonnel R	0 evenues	0 Expenditures/(Rev	0	-
Total Project Cost: = SOURCE(S) OF FUNDING Funding Type Development Fees TOTAL FUNDING OPERATING BUDGET IN DCA/LIFE CYCLE DETAI	95,100 <u> 95,100</u> <u> Budget</u> 95,100 <u> 95,100</u> 95,100 Po MPACT	ersonnel	0 0 Non Pers	0 sonnel R	0 evenues \$0	0 Expenditures/(Rev \$0 Life Cycle	0 0 enues)	-
Total Project Cost:	95,100 <u> 95,100</u> <u> Budget</u> 95,100 <u> 95,100</u> 95,100 Po MPACT	ersonnel	0 0 Non Per: \$0	0 sonnel R	0 evenues \$0 Amount in	0 Expenditures/(Rev \$0	0 0 enues)	-
Total Project Cost: = SOURCE(S) OF FUNDING Funding Type Development Fees TOTAL FUNDING OPERATING BUDGET IN DCA/LIFE CYCLE DETAI DCA	95,100 <u> 95,100</u> <u> Budget</u> 95,100 <u> 95,100</u> 95,100 Po MPACT	ersonnel	0 0 Non Per: \$0	0 sonnel R	0 evenues \$0 Amount in	0 Expenditures/(Rev \$0 Life Cycle Amount in Stu Amount Incl H	0 0 enues) dy: [-
Total Project Cost: = SOURCE(S) OF FUNDING Funding Type Development Fees TOTAL FUNDING OPERATING BUDGET IN DCA/LIFE CYCLE DETAI DCA	95,100 <u>Budget</u> 95,100 95,100 95,100 MPACT Pt ILS	ersonnel \$0	0 0 Non Per: \$0 Year	0 sonnel R	0 evenues \$0 Amount in	0 Expenditures/(Rev \$0 Life Cycle — Amount in Stu	0 0 enues) dy: [

	MARKHAM	2024 PROJE	ECT FUNDI	NG REQUI	EST FORN	<i>A</i> Number:	24	4018
Commission: Development Services Studies/Pilot Pre Department: Planning Project Mgr: Duran Wedderburn Ward(s): CW 1 2 3 k7 4 k7 Sci 6 7 8 Requirement Validiation: Internal peer review DEFAILED DESCRIPTION (SCOPE OF PROJECT): ITS Involved Project: Is ITS Consulted? Internal peer review Markham Official Plan requires preparation of a Secondary Plan be completed for the Markville Key Development Area. NOTES BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community NOTES PROJECT COSTS (\$) 2024 Future Phases NOTES Cost/Quote: 0 0 0 Ditternal Charges: 0 0 pathetic functional funds are needed to complete the Markville Se Plan Study for additional community engagement, model technical analysis. Furthermore, additional arequirements is guide future and technical analysis. Furthermore, additional requirements of the on-going Secondary Plan which will develop the land use policy fraid development. SURCE(S) OF FUNDING (\$) Components TOTAL SURCE(S) OF FUNDING (\$) Components TOTAL O 0 0 0 DCA 80,600 80 <th>Project Name: Markville</th> <th>Secondary Plan (</th> <th>(Phase 2 of 2)</th> <th></th> <th>1</th> <th>Project Cost:</th> <th>\$80</th> <th>,600</th>	Project Name: Markville	Secondary Plan ((Phase 2 of 2)		1	Project Cost:	\$80	,600
Department: Planning Useful Life: 0 Pre Appr Project Mgr: Duran Wedderburn Category: Major Ward(s): CW 1 2 3 3		-			,	Studie	s/Pilot l	Programs
Project Mgr: Duran Wedderburn Category: Major Ward(s): CW 1 2 3 2 4 Cost Validation: Internal peer review BUILDING MARKHAM'S FUTURE TOGET FIRENCIAL PLANT SPUTURE TOGET HER: Safe & Sustainable Community TTS Involved Project: Is TTS Consulted? Internal Charges: BUILDING MARKHAM'S FUTURE TOGET HER: Safe & Sustainable Community PROJECT COSTS (\$) 2024 Future Phases Cost/Quote: 0 0 Internal Charges: 0 0 External Consulting: 72,000 0 MBST Timpact: 1,394 0 Total Project Cost: 80,600 0 SOURCE(S) OF FUNDING (\$) Components Internal charges: SOURCE(S) OF FUNDING (\$) Source Source Source Source Source Source Source Cost: 80,600 0 0 Internal Char		it Services			Usef	ul Life: 0	Pre Ap	proval:
Ward(s): CW 1 2 3 4 Cost Validation: Internal peer review 5 6 7 8 Requirement Validation: Other(specify in Notes) DETAILED DESCRIPTION (SCOPE OF PROJECT): TTS Involved Project: Is ITS Consulted? Markham Official Plan requires preparation of a Secondary Plan be completed for the Markville Key Development Area. BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community PROJECT COSTS (\$) 2024 Future Phases Cost/Quote: 0 0 0 Internal Charges: 0 0 0 Sub Total: 79,200 0 0 MST Impact: 1,394 1,394 0 Total Project Cost: 80,600 SOURCE(S) OF FUNDING (\$) Components Funding Type Budget 0 0 0 0 0 0 0 DCA 80,600 0 0 DCA 80,600 0 0		dauhaan			Category: Ma	ıjor		
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Year in the study		VI - Studies - Various	20			Amount Incl H	ST	
	IUIALFUNDING			80,000	2,103,000	Year in the stu	ıdy	
	DCA and/or Life Cycle:	Explain if there is a	change in the yea	r and/or cost:				

2024 PROJECT FUN	DING REQUEST FORM	l Numb	er: 24019
Project Name: Planning for Urban Boundary Expansion		roject Cost:	\$254,400
		Stu	udies/Pilot Programs
Commission: Development Services	Usefu	ll Life: 0	Pre Approval:
Department: Planning			rie rippiovai.
Project Mgr: Duran Wedderburn	Category: Ma	Jor	
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Inte	ernal peer rev	iew
	Requirement Validation:		
5 🗹 6 🗹 7 🗌 8	ITS Involved Project: Is ITS C	Computed 2]
DETAILED DESCRIPTION (SCOPE OF PROJECT):	115 Involved Project: Is 115 C		

The 2022 York Region Official Plan (YROP) expanded the municipal urban boundary for the City of Markham to incorporate new greenfield lands. A planning consultant is required to establish a comprehensive land use policy framework and vision for these lands in accordance with Provincial, Regional, and local policy requirements to ensure the areas are appropriately planned. Including supporting the development and review of privately initiated development applications and technical studies such as Sub-watershed,

Transportation, and Master Environmental Servicing Plans.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	<u>NOTES</u>			
Cost/Quote:	0	0				
Internal Charges:	0	0				
External Consulting:	250,000	0				
Contingency %: 0	0	0				
Sub Total:	250,000	0				
HST Impact:	4,400	0				
Total Project Cost:	254,400	0				
SOURCE(S) OF FUNDIN	<u>G_(\$)</u>		Compor	nents		– <u>Future</u>
<u>Funding Type</u>	<u>Budget</u>				TOTA	
DCA	254,400	0	0	0	0 (0 0
TOTAL FUNDING	254,400					0 0
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DCA/LIFE CYCLE DETA	AILS	Year		\$0	\$0 Life Cycle	
DCA/LIFE CYCLE DETA	AILS	Year	Amount	\$0 Amount in Study	\$0 Life Cycle Amount in Study:	
DCA/LIFE CYCLE DETA	AILS	Year	Amount	\$0 Amount in Study 2,165,000	\$0 Life Cycle Amount in Study: Amount Incl HST	
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DCA/LIFE CYCLE DETA DCA Name GENERAL GOVERNMI TOTAL FUNDING	MLS ENT - Studies - Vari	Year ous Studies 2024	Amount 4 254,400 254,400	\$0 Amount in Study 2,165,000	\$0 Life Cycle Amount in Study: Amount Incl HST	

Parks Design & Construction

	MARKHAM	2024 PROJ	ECT FUND	ING REQ	UEST FO	RM Number	: 24	4020
Commission: Development Services RepairReplace Department: Parks Design & Construction Category: Annual Project Mgr: Tanya Lewinberg Category: Annual Ward(s): QW Q 1 2 2 3 4 Category: Annual Category: Annual S 6 6 7 8 Cost Validation: Internal peer review Requirement Validation: Condition assessment Term of the City leading to wear and team of tools, site informations, and standing. 100+ families and control tools and overall handscaping. Annual maintenance of city-owned community and allotment gardens to maintain a state of good repair and standing. 100+ families and trading. 100+ families and trading to wear and team of tools, site informatrucer, and standing. 100+ families and control tools and maintenance at Kirkham Allotment Garden. BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People PROJECT COSTS (s) 2024 Future Phases Cost/Quote: 45,007 0 Contingency %: 0 0 0 Contingency %: 0 0 0 Contingency %: 0 0 0 Matter and Consulting: 0 0 General Construction 45,800 0 SULDING (S) Completes annual assessment of inventory and infrastructure, and the Life Cycle Reserve Study. Superment State of popper state of the up to total 45,800	Project Name: Commun	ity Garden Mair	itenance			Project Cost:	\$45	,800
Department: Parks Design & Construction Useful Lfi: 0 Pre Approval: □ Project Mgr: Tanya Lewinberg Category: Annual Ward(s): CW V 10 20 30 40 Cost Validation: Internal poer roview S 0 6 7 7 80 Cost Validation: Internal poer roview DETAILED DESCRIPTION (SCOPE OF PROJECT): TTS Involved Project: Is TTS Consulted? Internal poer roview General maintenance of city-owned community and allotment gardens to maintain a state of good repair and standing. 100+ families cultivate garden spaces with the City, leading to wear and tear of tools, site infrastructure, and overall landscaping. Annual maintenance maintenance at Kirkham Allotment Garden. BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People PROJECT COSTS (\$) 2024 Future Phases Cost/Quote: 45,007 0 Internal Charges: 0 0 Cost Outo: 45,007 0 Internal Charges: 0 0 Cost Outo: 45,007 0 Internal Charges: 0 0 Sub Total: 792 0 Total Project Cost: 45,800 0 SOURCE(S) OF FUNDING (\$		•				Repa	ir/Replac	:e
Project Mgr: Tanya Lewinberg Category: Annual Ward(s): CW 21 1 2 3 4 C Cost Validation: Internal per review S0 6 7 8 Requirement Validation: Condition assessment Condition assessment DETAILED DESCRIPTION (SCOPE OF PROJECT): ITS Involved Project: Is ITS Consulted? Internal percent validation: Condition assessment General maintenance of city-owned community and allotment gardens to maintain a state of good repair and standing. 100+ families cultivate garden spaces with the City, leading to wear and tear of tools, site infrastructure, and overall landcapping. Annual maintenance maintenance at Kirkham Allotment Garden. BULIDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People PROJECT COSTS (\$) 2024 Future Phases Cost/Quote: 45,007 0 Internal Charges: 0 0 Consulting: 0 0 Contingency %: 0 0 0 Contingency %: 0 0 0 Sub Total: 45,007 0 HST Impact: 792 0 Total Project Cost: 45,800 0 SOURCE(S) OF FUNDING (\$) Components Ending Type Funding Type Budeet TOTIAL Opera					τ	Jseful Life: 0	Pre Ar	proval:
Project Mg: Image Lewinnerg Ward(s): CW Ø 1 2 3 4 4 S G S G BULLDING MARKHAM'S PUTURE TOGETHER: ITS Involved Project: Is ITS Consulted? Iteration and the City, leading to wear and team of tooks, site infrastructure, and overall landscapping. Annual maintenance of at Kirkham Alloment Garden. BUILDING MARKHAM'S FUTURE TOGETHER: BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People PROJECT COSTS (S) 2024 Future Phases Cost/Quote: 45,007 0 Internal Charges: 0 0 Contingency %: 0 0 0 Sub Total: 45,007 0 Sub Total: 45,007 0 MST Total Project Cost: 45,800 0 Sub Total: 45,007 0 MST Total Project Cost: 45,800 0 Source(s) OF FUNDING (\$) Comment what is needed for the upcoming season. Amount is validated and consistent with the Life Cycle Reserve Study. Source(s) OF FUNDING (\$) Components Entime Paramine Tore Source(source) So So Opearating Funded Life Cycle 45,80					Category:	Annual	1	
Ward(3): Ward(3): Ward(3): Ward(3): Requirement Validation: Condition assessment SD ETAILED DESCRIPTION (SCOPE OF PROJECT): ITS Involved Project: Is ITS Consulted? ITS Involved Project: Is ITS Consulted? General maintenance of city-owned community and allotment gardens to maintain a state of good repair and standing. 100+ families cultivate garden spaces with the City, leading to wear and tear of tools, site infrastructure, and overall landscaping. Annual maintenance at Kirkham Allotment Garden. BULLDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People PROJECT COSTS (\$) 2024 Future Phases Cost/Quote: 45,007 0 Internal Charges: 0 0 Contigency %: 0 0 0 Contigency %: 0 0 0 MST Impact: 792 0 Total Project Cast: 45,800 0 SOURCE(S) OF FUNDING (\$) Components Future Phases Source(S) OF FUNDING (\$) Components Future Phases Operating Funded Life Cycle 45,800 0 0 0 SOURCE(S) OF FUNDING (\$) Components Future Phases Operating Funded Life Cycle So So Operatin		-		Co			w	
SI 6 I 7 I 8 I DETAILED DESCRIPTION (SCOPE OF PROJECT): ITS Involved Project: Is ITS Consulted? Detailed DESCRIPTION (SCOPE OF PROJECT): TIS Involved Project: Is ITS Consulted? Control of community and allotment gardens to maintain a state of good repair and standing. 100+ families cultivate garden spaces with the City, leading to wear and tear of tools, site infrastructure, and overall landscaping. Annual maintenance required to uphold garden standards, customer service and community engagement. Budget request based on previous year's outsourced maintenance at Kirkham Allotment Garden. BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional People PROJECT COSTS (\$) 2024 Future Phases Cost/Quote: 45,007 0 Internal Charges: 0 0 Contingency %: 0 0 0 0 Cornell Community Garden (116 Almira Avenue). Can include: infrastructure repairs. tool replacements, landscaping, general upkee, workshops, community engagement, etc. Staff completes annual assessment of inventory and infrastructure infrastructure repairs. tool replacement of inventory and infrastructure infrastructure repairs. tool repl								
DETAILED DESCRIPTION (SCOPE OF PRODUCT): General maintenance of city-owned community and allotment gardens to maintain a state of good repair and standing. 100+ families cultivate garden spaces with the City, leading to wear and tear of tools, site infrastructure, and overall landscaping. Annual maintenance required to uphold garden standards, customer service and community engagement. Budget request based on previous year's outsourced maintenance at Kirkhan Allotment Garden. BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People PROJECT COSTS (S) 2024 Future Phases Cost/Quote: 45,007 0 Internal Charges: 0 0 Contingency %: 0 0 0 Sub Total: 45,007 0 HST Impact: 792 0 Total Project Cost: 45,800 0 SOURCE(S) OF FUNDING (S) Components Enture Funding Type Budget TOTAL Phases Operating Funded Life Cycle 45,800 0 0	5	6 7 8		-				
cultivate garden spaces with the City, leading to wear and tear of tools, site infrastructure, and overall landscaping. Annual maintenance required to uphold garden standards, customer service and community engagement. Budget request based on previous year's outsourced maintenance at Kirkham Allotment Garden. BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People PROJECT COSTS (\$) 2024 Future Phases Cost/Quote: 45,007 0 Internal Charges: 0 0 Contingency %: 0 0 0 Sub Total: 45,007 0 HST Impact: 792 0 Total Project Cost: 45,800 0 SOURCE(S) OF FUNDING (\$) Components Euture Phases Funding Type Budget TOTAL Personnel Revenues Expenditures/(Revenues) Operating Funded Life Cycle 45,800 0 0 Operating Funded Life Cycle EDETAILS Personnel Revenues Expenditures/(Revenues) OPERATING BUDGET IMPACT So \$0 \$0 0 0 OPERATING BUDGET IMPACT So \$0 \$0 \$0 \$0 \$0 <					-			
PROJECT COSTS (\$) 2024 Future Phases Cost/Quote: 45,007 0 Internal Charges: 0 0 External Consulting: 0 0 Contingency %: 0 0 0 Sub Total: 45,007 0 HST Impact: 792 0 Total Project Cost: 45,800 0 SOURCE(S) OF FUNDING (\$) Components Endure Funding Type Budget TOTAL Phases Operating Funded Life Cycle 45,800 0 0 0 OPERATING BUDGET IMPACT Personnel No Personnel Revenues Expenditures/(Revenues) S0 \$0 \$0 \$0 \$0 0 0 ODEALIFE CYCLE DETAILS DCA Year Amount in Study 22,900 Mame Year and/or cost: 45,800 Year and/or cost: 22,900	cultivate garden spaces with required to uphold garden st maintenance at Kirkham All	the City, leading to andards, customer otment Garden.	wear and tear of tear	tools, site infra unity engageme	structure, and ent. Budget rea	overall landscaping quest based on previ	. Annual	maintenance
INSPECT COSTSTST 2024 Future Prases Cost/Quote: 45,007 0 Internal Charges: 0 0 External Consulting: 0 0 Contingency %: 0 0 0 Staff completes annual assessment of inventory and infrastructure repairs, tool replacements, landscaping, general upkeep, workshops, community Garden (116 Almira Avenue). Can include: infrastructure repairs, tool replacements, landscaping, general upkeep, workshops, community engagement, etc. Staff completes annual assessment of inventory and infrastructure to determine what is needed for the upcoming season. Amount is validated and consistent with the Life Cycle Reserve Study. SOURCE(S) OF FUNDING (\$) Endeget Funding Type Budget Funding Type Budget Funding Type Budget Operating Funded Life Cycle 45,800 0 0 0 OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) S0 \$0 \$0 \$0 \$0 \$0 0 OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) \$0 \$0 \$0 \$0 \$0 \$0	BUILDING MARKHAM	S FUTURE TOG	ETHER: Excep	tional Services t	by Exceptional I	People		
Cost/Quote: 45,007 0 Internal Charges: 0 0 External Consulting: 0 0 Contingency %: 0 0 0 Sub Total: 45,007 0 HST Impact: 792 0 Total Project Cost: 45,800 0 SOURCE(S) OF FUNDING (\$) Endeet Endeet Source (\$) OF FUNDING (\$) Endeet Future. Promoting Funded Life Cycle 45,800 0 0 Operating Funded Life Cycle 45,800 0 0 0 Operating Funded Life Cycle DETAILS Personnel Non Personnel Revenues Expenditures/(Revenues) SO \$0 \$0 \$0 \$0 \$0 0 ODEALIFE CYCLE DETAILS Personnel Non Personnel Revenues Expenditures/(Revenues) DCA Year Amount in Study 45,800 \$0 \$0 DCA and/or Life Cycle: Explain if there is a change in the year and/or cost: DCA and/or Life Cycle: Explain if there is a change in the year and/or cost: Life Cycle Amount in Study: 22,900	PROJECT COSTS (\$)	2024	Future Phases					
Internal Charges: 0 0 External Consulting: 0 0 Contingency %: 0 0 0 Sub Total: 45,007 0 HST Impact: 792 0 Total Project Cost: 45,800 0 SOURCE(S) OF FUNDING (\$) Components Future Funding Type Budget TOTAL Operating Funded Life Cycle 45,800 0 0 Operating Funded Life Cycle 45,800 0 0 0 Operating Funded Life Cycle 45,800 0 0 0 0 OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) S0 \$0 \$0 \$0 \$0 0 0 DCA Year Amount Study 45,800 Year Amount in Study: 22,900 Amount Incl HST 45,800 \$0 \$0 \$0 \$0 \$0 DCA Year Amount in Study: 22,900 Amount Incl HST 45,800 DCA and/or Life Cycle: Explain if there is a change								
External Consulting: 0 0 Contingency %: 0 0 0 Sub Total: 45,007 0 HST Impact: 792 0 Total Project Cost: 45,800 0 SOURCE(S) OF FUNDING (\$) Components Funding Type Budget TOTAL Phases TOTAL Phases Operating Funded Life Cycle 45,800 0 0 0 0 Operating Funded Life Cycle 45,800 0 0 0 0 0 OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) 50 SOURCALIFE CYCLE DETAILS DCA Year Amount in Study 22,900 Amount Incl HST Year in the study 22,900 Amount in Study: 22,900 Amount Incl HST 45,800 Year in the study 11	_					•		,
Contingency %: 0 0 0 Sub Total: 45,007 0 HST Impact: 792 0 Total Project Cost: 45,800 0 SOURCE(S) OF FUNDING (\$) Components Future Funding Type Budget TOTAL Phases Operating Funded Life Cycle 45,800 0 0 0 0 OPERATING BUDGET IMPACT Personnel Revenues Expenditures/(Revenues) 50 \$0 DCA/LIFE CYCLE DETAILS Year Amount in Study 22,900 Amount in Study 22,900 DCA and/or Life Cycle: Explain if there is a change in the year and/or cost: DCA and/or cost: 45,800 Year and/or cost:	_	-						general
Sub Total: 45,007 0 HST Impact: 792 0 Total Project Cost: 45,800 0 SOURCE(S) OF FUNDING (\$) Components Future Funding Type Budget TOTAL Phases Operating Funded Life Cycle 45,800 0 0 0 0 Operating Funded Life Cycle 45,800 0 0 0 0 0 Operating Funded Life Cycle 45,800 0 0 0 0 0 0 OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) 0 0 DCALIFE CYCLE DETAILS S0 \$0 \$0 \$0 \$0 Amount in Study: 22,900 Amount Incl HST 45,800 Year Amount Study: 22,900 Amount Incl HST 45,800 DCA and/or Life Cycle: Explain if there is a change in the year and/or cost: DCA and/or cost: 45,800 Year in the study DCA	—	-						frastructura
Jobs Fold. 47,007 0 HST Impact: 792 0 Total Project Cost: 45,800 0 SOURCE(S) OF FUNDING (\$) Components Funding Type Budget TOTAL Future. Operating Funded Life Cycle 45,800 0 0 0 0 0 Operating Funded Life Cycle 45,800 0 <t< td=""><td></td><td>45.007</td><td>0</td><td></td><td></td><td></td><td></td><td></td></t<>		45.007	0					
Total Project Cost: 45,800 0 SOURCE(S) OF FUNDING (\$) Components Funding Type Budget TOTAL Future. Operating Funded Life Cycle 45,800 0 0 0 0 0 Operating Funded Life Cycle 45,800 0 0 0 0 0 0 Operating Funded Life Cycle 45,800 0		· · · · · · · · · · · · · · · · · · ·		validated an	nd consistent v	with the Life Cycle F	Reserve S	tudy.
Funding Type Budget TOTAL Future Phases Operating Funded Life Cycle 45,800 0 0 0 0 0 0 TOTAL FUNDING			0					
Funding Type Budget TOTAL Future. Operating Funded Life Cycle 45,800 0 0 0 0 0 Operating Funded Life Cycle 45,800 0 0 0 0 0 0 Operating Funded Life Cycle 45,800 0 0 0 0 0 0 OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 DECA Year Amount in Study Life Cycle Amount in Study: 22,900 Amount Incl HST 45,800 Year in the study	= SOURCE(S) OF FUNDING	G (\$)		Comp	onents			
TOTAL FUNDING 45,800 0 0 0 OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) \$0 \$0 \$0 \$0 \$0 \$0 DCA/LIFE CYCLE DETAILS Year Amount Life Cycle Mame Year Amount Study Amount in Study: 22,900 Amount Incl HST 45,800 Year in the study	Funding Type	<u>Budget</u>		•		<u>1</u>	OTAL	
TOTAL FUNDING 45,800 0 0 0 OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) \$0 \$0 \$0 \$0 \$0 \$0 DCA/LIFE CYCLE DETAILS Year Amount Life Cycle Mame Year Amount Study Amount in Study: 22,900 Amount Incl HST 45,800 Year in the study	Operating Funded Life Cycle	45,800	0	0	0	0	0	0
OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) \$0 \$0 \$0 \$0 \$0 DCA/LIFE CYCLE DETAILS Year Amount in Study Life Cycle Name Year Amount in Study 22,900 Amount Incl HST 45,800 Year in the study 1 DCA and/or Life Cycle: Explain if there is a change in the year and/or cost: United to the study 1	TOTAL FUNDING	· · · · · · · · · · · · · · · · · · ·					0	0
OPERATING BUDGET IMPACT \$0 \$0 \$0 \$0 \$0 \$0 \$0 DCA/LIFE CYCLE DETAILS Amount in Study Life Cycle Name Year Amount in Study 22,900 Amount in Study: 22,900 Amount Incl HST 45,800 Year in the study								
\$0 \$0 \$0 \$0 DCA/LIFE CYCLE DETAILS Amount in Study Life Cycle DCA Year Amount in Study Life Cycle Name Year Amount in Study: 22,900 Amount Incl HST 45,800 Year in the study	ODEDATING BUDGET H	MBACT Per	rsonnel Non Po	ersonnel F	Revenues	Expenditures/(Re	venues)	
DCA Year Amount Study Life Cycle Name Year Amount Study Amount in Study: 22,900 Amount Incl HST 45,800 Year in the study Year in the study Year in the study DCA and/or Life Cycle: Explain if there is a change in the year and/or cost: DCA Study Study	<u>OI ERAIING BUDGEI I</u>	<u>MIACI</u>	\$0 5	50	\$0	\$0		
Name Year Amount Study Amount in Study: 22,900 Amount Incl HST 45,800 Year in the study Year in the study	DCA/LIFE CYCLE DETA	ILS						
Amount in Study: 22,900 Amount Incl HST 45,800 Year in the study DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:	DCA				Amount in	<u>Life Cycle</u>		
Amount Incl HST 45,800 Year in the study DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:	Name		Ye	ar Amount	Study	Amount in St	udv.	22 900
Year in the study								
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:								43,800
						Year in the s	tudy	
Updated amount to be reflected in next Life Cycle update	DCA and/or Life Cycle:	Explain if there is	a change in the ye	ar and/or cost:				
	Updated amount to be re	eflected in next Life	e Cycle update					

2024 PROJECT FUNDING REQUEST FORM RKHAM 24021 Number: **Project Cost:** \$1,172,600 Project Name: Cornell Centre East Parkette - Design & Construction

· · · · · · · · · · · · · · · · · · ·		Ν	New Asset/Expansion
Commission: Development Services	Useful L	for 24	5 Pre Approval: \Box
Department: Parks Design & Construction		Ie. 2.	5 Fle Apploval.
Project Mgr: Richard Fournier	Category: Major		
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Other(specify i	in Notes)
5 € 6 7 8	Requirement Validation:		
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Con	sulted?	

This Project is to design and construct the 2.84 acre (1.15 ha) park located between Rustle Woods Ave. to the north, Stauffer Cres. to the South, Donald Cousens Pkwy to the East and Cornell Rouge Blvd to the West. Anticipated Park Amenities include a junior/senior playground, shade structures, site furnishings, pathways and associated landscape works.

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

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Cost per ha is \$1,019,652 (\$1,172,600/1.15/ha) or \$412,887 per
Cost/Quote:	940,000	0	acre. Annualized operating cost is \$12,017 (1.15 ha X \$10,450)
Internal Charges:	84,600	0	starting in 2026. Estimated in service Date is Q4 2025. Costs wi
External Consulting:	50,000	0	be included in the Life Cycle Reserve Study at time of park assumption based on updated replacement cost for each amenity
Contingency %: 8	79,200	0	assumption based on updated replacement cost for each amenity
Sub Total:	1,153,800	0	
HST Impact:	18,818	0	
Total Project Cost:	1,172,600	0	

SOURCE(S) OF FUNDING (\$) **Components** Funding Type **Budget** DCA 0 0 0 0 1,172,600 TOTAL FUNDING

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

DCA/LIFE CYCLE DETAILS

<u>DCA</u>		A	mount in	<u>Life Cvcle</u>
Name	Year	Amount	Study	Amount in Study:
PARKS - Cornell Centre East Parkette	2024	1,172,600	1,318,116	
TOTAL FUNDING		1,172,600	1,318,116	Amount Incl HST
				Year in the study

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

1,172,600

Future

Phases

0

0

TOTAL

0

0



BUILDING MARKHAM'S FUTURE TOGETHER 2020 – 2023 Strategic Plan



CORNELL CENTRE EAST PARKETTE DESIGN & CONSTRUCTION



2024 Budget Request: \$1,172,600

Ward 5

Features:

- Jr./Sr. Playground
- Shade Structures
- Site Furnishings
- Pathways
- Associated Landscape Works

2024 PROJECT FUNDING REQUEST FORM MARKHAM Number

Number:	24022

						Project C	ost: \$40	2,400
Project Name: Cornell C		kette - Desig	gn & Cor	istruction			New Asset/E	xpansion
Commission: Developme					Usef	ul Life:	25 Pre A	pproval: 🗌
Department: Parks Desig	-				Category: M			rr - · · ·
Project Mgr: <u>Richard For</u>					alidation: Ot	•	v in Notes)	
	2 3 4		R	equirement V		· •	•	
5 🖌	6 7 8			TS Involved P				
DETAILED DESCRIPTIO					5			
This Project is to design and Cornell Rouge Blvd. Anticip			· •					
BUILDING MARKHAM'	S FUTURE TOG	ETHER:	Engaged, D	iverse & Thrivi	ng City			
PROJECT COSTS (\$)	<u>2024</u>	Future Ph		NOTES				
Cost/Quote:	309,000						18 ha) or \$894 .18 ha x \$10,45	
Internal Charges:	27,810		0 20	026. Estimate	l in service da	ate: Q4 202	25. Costs will	be included in
External Consulting:	35,000		o th				f park assumption	on based on
Contingency %: 7	24,080		0	pdated replace	ment cost for	each ame	mty.	
Sub Total:	395,890		0					
HST Impact:	6,478		0					
Total Project Cost:	402,400		0					
SOURCE(S) OF FUNDING	<u> (\$)</u>			Compone	nts			F 4
Funding Type	<u>Budget</u>						TOTAL	<u>Future</u> <u>Phases</u>
DCA	402,400		0	0	0	0	0	0
TOTAL FUNDING	402,400						0	0
	Pe	rsonnel N	on Person	nel Reve	nues Ex	penditur	es/(Revenues)	
OPERATING BUDGET I	<u>MPACI</u>	\$0	\$0	\$	0	S	\$0	
DCA/LIFE CYCLE DETA	ILS							
DCA					nount in	<u>Life (</u>	Cycle	
Name			Year	Amount	Study	Amour	t in Study:	
PARKS - Cornell Centre	West Parkette		2024	402,400	647,929		t Incl HST	
TOTAL FUNDING				402,400	647,929		n the study	
						I cai li		
DCA and/or Life Cycle:	Explain if there is	a change in t	he year an	d/or cost:				
	-		-					

.

2024 PROJECT FUNDING REQUEST FORM ARKHAM Number:

	Proj	ect Cost:	\$10,300
Project Name: Denison Park Table Tennis Commission: Development Services Department: Parks Design & Construction Project Mgr: Richard Fournier Ward(s): CW 1 2 3 4 5 6 7 8	Useful Li Category: Annual Cost Validation: Third p Requirement Validation: Other(s ITS Involved Project: Is ITS Cons	fe: 20 earty estimates pecify in N	Asset/Expansion Pre Approval:
DETAILED DESCRIPTION (SCOPE OF PROJECT): To install table tennis in Denison Park with concrete pad below. area, alleviating some of the gymnasium demand for table tennis BUILDING MARKHAM'S FUTURE TOGETHER:	1	ent demand	d for table tennis in the
DUILDING MARKHAM 5 FUTURE TUGETHER; Enga	igeu, Diverse & Thirving City		

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES Request by commnity to provide amenties in Denison Park.
Cost/Quote:	9,600	0	will be included in the Life Cycle Reserve Study at time of pr
Internal Charges:	0	0	assumption based on updated replacement costs for the ameni
External Consulting:	0	0	
Contingency %: 5	480	0	
Sub Total:	10,080	0	
HST Impact:	177	0	
Total Project Cost:	10,300	0	

SOURCE(S) OF FUNDING (\$)

Components Future Funding Type **Budget** TOTAL Phases DCA 0 10,300 0 0 0 0 0 10,300 0 TOTAL FUNDING 0

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

DCA/LIFE CYCLE DETAILS

DCA		A	mount in	<u>Life Cycle</u>
Name	Year	Amount	Study	Amount in Studen
Park Development - Community/City-Wide - City-wide	2024	10,300	2,510,170	Amount in Study:
Growth Related Capital Program & Delivery				Amount Incl HST
TOTAL FUNDING		10,300	2,510,170	Year in the study

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

DING DEOI

(MARKHAM	2024 PROJ	IECT F	'UNDI	NG REQUEST FO	N N	umber:	24	024
Project Name: Language		Deeder	Destan		Project (Cost:	\$1,15	3,300
Project Name: Innovatio	on and Songbird	Parks -	Design &	& Construction		New A	Asset/Ex	pansion
Commission: Developme	ent Services			Ĭ	Useful Life:	25	Pre An	proval:
Department: Parks Desi	-			Category:		23	i ie np	provai.
Project Mgr: Richard Fo	ournier			0.1			()	<u> </u>
Ward(s): $_{CW} \square _1 \square$	2 3 4			Cost Validation:		-		
5	6 7 8			Requirement Validation:			tes)	
DETAILED DESCRIPTIO	ON (SCOPE OF P	ROJECI	[]:	ITS Involved Project: Is I	ITS Consulte	d? □		
between Clegg Rd. to the no Anticipated park amenities i works. BUILDING MARKHAM	include a junior/ser	ior playgr	ound, sha					
PROJECT COSTS (\$)	<u>2024</u>	<u>Future</u>	Phases	NOTES Cost per ha is \$915,317(\$	\$1 153 300/1	26ha) or	• \$370 83	Soper acre
Cost/Quote:	970,000		0	Annualized operating cos	st is \$13,167	(1.26ha x	x \$10,45	0).
Internal Charges:	87,300		0	Estimated in service date				
External Consulting:	0		0	Life Cycle Reserve Study updated replacement cost				
Contingency %: 8	77,600		0	upfronted design and buil		enity. In	15 15 u u	velopei
Sub Total:	1,134,900		0					
HST Impact:	18,438		0					
Total Project Cost:	1,153,300		0					
SOURCE(S) OF FUNDING	<u>G (\$)</u>			Components				<u>Future</u>
Funding Type	<u>Budget</u>					<u>T(</u>)TAL	Phases
DCA	1,153,300		0	0 0	()	0	0
TOTAL FUNDING	1,153,300						0	0
OPERATING BUDGET I	MPACT Pe	rsonnel	Non Pe		Expenditu		enues)	
		\$0	\$	0 \$0		\$0		

DCA/LIFE CYCLE DETAILS

- 10

DCA		А	mount in	<u>Life Cvcle</u>
Name	Year	Amount	Study	Amount in Study:
PARKS - Innovation Park	2024	1,153,300	2,372,906	
TOTAL FUNDING		1,153,300	2,372,906	Amount Incl HST
				Year in the study

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





INNOVATION & SONGBIRD PARKS DESIGN & CONSTRUCTION



2024 Budget Request: \$1,153,300

Ward 8

Features:

- Jr./Sr. Playground
- Shade Structures
- Site Furnishings
- Pathways
- Associated Landscape Works

MARKHAM	2024 PROJ	IECT FU	NDIN	G REQUE	EST FOR	M Number:	24	4025
Project Name: James Co	ohrana Dark Dh	asa ? Evna	ncion (I	los & Con		Project Cost:	\$387	,200
		ase 2 Expa	1151011 - (1	les. a Coll.)	New A	Asset/Ex	pansion
Commission: Developme					Use	ful Life: 25	Pre Ap	proval:
Department: Parks Desig	-				Category: M		r	F
Project Mgr: <u>Richard Fo</u>					· · · _	ther(specify in Not	tes)	
	2 3 4		R			ther(specify in Not		
	6 7 8			-		Consulted?		
DETAILED DESCRIPTIO This project is to design and intersection of Rustlewoods furnishings, pathways and as	construct the 1.19 Ave. & Rivertree S	acre (0.48ha St. Anticipate	a) phase 2 p	ark expansio	n of James Co	ochrane Park locate		
BUILDING MARKHAM'	S FUTURE TOG	ETHER:	Engaged, D	iverse & Thriv	ing City			
PROJECT COSTS (\$)	2024	Future Ph	N N	<u>IOTES</u>				
Cost/Quote:	<u>2024</u> 310,000	<u>ruture Pl</u>				37,200/ 0.48ha) or ized operating cost		
Internal Charges:	27,900					stimated in service		
External Consulting:	20,000		0 W	ill be include	d in the Life (Cycle Reserve Stud	ly at tim	e of park
Contingency %: 7	23,100		0 as	sumption bas	ed on updated	d replacement cost	s for eac	ch amenity.
- Sub Total:	381,000		0					
HST Impact:	6,215		0					
Total Project Cost:	387,200		0					
SOURCE(S) OF FUNDING	<u> (\$)</u>			Compone	ents			Future
<u>Funding Type</u>	<u>Budget</u>					<u>TC</u>	DTAL	<u>Phases</u>
DCA	387,200		0	0	0	0	0	0
TOTAL FUNDING	387,200						0	0
	Pe	rsonnel N	Non Persor	nel Revo	enues E	xpenditures/(Revo	enues)	
OPERATING BUDGET I	MPACT	\$0	\$0	\$	0	\$0		
DCA/LIFE CYCLE DETA	ILS							
DCA				Α	mount in	Life Cycle		
Name			Year	Amount	Study	Amount in Stu	dv:	
Park Development - Comr Growth Related Capital Pr		City-wide	2024	387,200	2,510,170	Amount Incl H	-	
TOTAL FUNDING				387,200	2,510,170	Year in the stu		
DCA and/or Life Cycle:	Explain if there is	a change in	the year an	d/or cost:				

2024 PROJECT FUNDING REQUEST FORM

Number:	24026
1 uniout .	

		Project C	Cost:	\$181,400
Project Name: Park Development Guidelines			Studi	es/Pilot Programs
Commission: Development Services	τ	Jseful Life:	0	Pre Approval:
Department: <u>Parks Design & Construction</u> Project Mgr: Richard Fournier	Category:	Major		
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation:	Recent awar	rds	
	Requirement Validation:	• 1	-	otes)
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulted	d? □	
There is a need to develop a consolidated set of standards, guidelin	es and specifications related	to the desig	n and c	onstruction of parks

There is a need to develop a consolidated set of standards, guidelines and specifications related to the design and construction of parks. The park development guidelines will include base park requirements for grading and servicing, define facility sizes and specify standard construction details and specifications for various park elements based on best practices and consultation with city stakeholders. Standardizing and consolidating all of this information into one document will help ensure a consistent standard is applied to parks and will facilitate coordination with external consultants and applicants. Park Development guidelines are growth related as a result of increasing resident demand for parks and facilities within them. Park Development Guidelines are critical to the growing success of standardizing park development in the future.

BUILDING MARKHAM'S FUTURE TOGETHER: Stewardship of Money & Resources

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES The budget was determined based on informal discussions with
Cost/Quote:	0	0	external consultants as well as budget needs for similar projects
Internal Charges:	13,500	0	undertaken in the past. 65/35 split DCA/Non-DC Growth
External Consulting:	150,000	0	
Contingency %: 10	15,000	0	
Sub Total:	178,500	0	
HST Impact:	2,904	0	
Total Project Cost:	181,400	0	

SOURCE(S) OF FUNDING (\$)

RKHAM

SOURCE(S) OF FUILDING	(\$)	Components						
Funding Type	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>	
		0	0	0	0	0	0	
DCA	117,910	0	0	0	0	0	0	
Non-DC Growth	63,490	0	0	0	0	0	0	
TOTAL FUNDING	181,400				=	0	0	

Components

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

<u>DCA</u> Name	Year	Amount	mount in Study	Life Cycle
Park Development - Community/City-Wide - City-wide	2024	117,910	2,510,170	Amount in Study:
Growth Related Capital Program & Delivery				Amount Incl HST
TOTAL FUNDING		117,910	2,510,170	Year in the study
DCA and/or Life Cycle: Explain if there is a change in	the year ar			

2024 PROIECT FUNDING DEOUEST EODM

MARKHAM	2024 PROJ	ECT FU	U NDIN	G REQUI	EST FORM	1 Number		027
Project Name: Parks Rer	naissance Planne	r			F	Project Cost:	\$122	,600
		,				Stud	ies/Pilot P	rograms
Commission: Developme					Usefu	ıl Life: 0	Pre Ap	proval: 🗆
Department: <u>Parks Desig</u>	-				Category: Ani	nual		
Project Mgr: <u>Richard For</u>				Cost	Validation: Oth	ner(specify in N	(otes)	
	2 3 4		R	equirement V	alidation:			
DETAILED DESCRIPTIO			Ľ	S Involved F	Project: Is ITS (Consulted? \Box		
Expressing Markham's comm Planner develops capital pro intended to add interest and aspects of the projects and or BUILDING MARKHAM'	nitment to ongoing jects to create new new features to reju versees their impler	developmen improvement invenate Mar mentation.	nts to our e kham's olde	xisting park i er parks. The	nventory, that is	s ten years or of the Planner des	lder. The p	projects are
PROJECT COSTS (\$)			1	NOTES				
	<u>2024</u>	<u>Future Pl</u>						
Cost/Quote:	0		0					
Internal Charges: External Consulting:	122,600 0		0					
Contingency %: 0	0		0					
Sub Total:	122,600		0					
HST Impact:	0		0					
Total Project Cost:	122,600		0					
SOURCE(S) OF FUNDING	<u> (\$)</u>			Compone	ents			Future
Funding Type	<u>Budget</u>]	TOTAL	<u>Phases</u>
DCA	122,600		0	0	0	0	0	0
TOTAL FUNDING	122,600						0	0
OPERATING BUDGET IN	MPACT Per	sonnel I \$0	Non Person \$0		enues Exj	penditures/(Re \$0	evenues)	
DCA/LIFE CYCLE DETA	ILS		, •	4		~ ~		
DCA				Α	mount in	<u>Life Cycle</u>		
Name			Year	Amount	Study	Amount in S	tudy.]
Park Development - Comm Growth Related Capital Pr		ity-wide	2024	122,600	2,510,170	Amount Incl		
TOTAL FUNDING				122,600	2,510,170	Voor in the	tudy	

=

Year in the study

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

MARKHAM	2024 PROJ	ECT FUNDI	ING REQUEST FO	RM Number:	24	1028
				Project Cost:	\$16	,400
Project Name: Traffic Co	ontrol Cabinet V	Vraps		Repair	/Replac	e
Commission: Developme	ent Services		I	Jseful Life: 10		proval:
Department: Parks Desig	-		Category:		11011	provun
Project Mgr: Richard Fo			Cost Validation:			
	2 3 4		Requirement Validation:			
5	6 7 8		ITS Involved Project: Is I			
DETAILED DESCRIPTIO						
The main goal of Markham's social and cultural identity. I traffic control cabinet progra	Projects include en	nancements that pro	omote community engageme	nt, beautification and		
BUILDING MARKHAM'	S FUTURE TOG	E THER: Engage	ed, Diverse & Thriving City			
PROJECT COSTS (\$)	2024	Future Phases	NOTES			
Cost/Quote:	15,600	0	1) John st & Portfield Cre Ave/Mallory 3) Denison			n
Internal Charges:	0	0	4) Elson st & Middlefield	Rd 5) Denison st & 7	Fownley	
External Consulting:	0	0	Courtyard Lane & Hwy 7			
Contingency %: 3	468	0	St./James Scott rd 8) John 9) Apple Creek blvd & H			
Sub Total:	16,068	0	Oak Ave & Brunswick A	ve 11) Church St. & C	Country	Glen Rd 12)
HST Impact:	283	0	Markham Rd.& Castlemo Bullock Dr.& Centennial			
Total Project Cost:	16,400	0	Dr. 16) Esna Park & Dr. 1		ivu. œ i	xouge valley
SOURCE(S) OF FUNDING	<u> (\$)</u>		Components			<u>Future</u>
<u>Funding Type</u>	<u>Budget</u>			<u>T(</u>	DTAL	Phases
Operating Funded Life Cycle	16,400	0	0 0	0	0	0
TOTAL FUNDING	16,400				0	0
	Do	sonnel Non Pe	rsonnel Revenues	Expenditures/(Rev	anne)	
OPERATING BUDGET I	MPACT Fe			-	enues)	
DCA/LIFE CYCLE DETA	ILS	\$0 \$	0 \$0	\$0		
DCA			Amount in	Life Cycle		
Name		Yea	ar Amount Study	– Amount in Stu	dv:	
				Amount Incl H		
				Year in the stu		
DCA and/or Life Cycles	: Explain if there is	a change in the year	ar and/or cost:			

MARKHAM 2024 PROJECT FUND	NG REQUEST FOR	RM N	umber:	24029
Project Name: Tree Planting and Engineered Soil Pilot		Project	-	\$31,200
			Repair	Replace
Commission: Development Services	Us	eful Life:	0	Pre Approval:
Department: Parks Design & Construction	Category: A	Annual		11
Project Mgr: <u>Richard Fournier</u>				
Ward(s): $CW \square 1 \square 2 \checkmark 3 \checkmark 4 \checkmark$	Cost Validation:	Internal pe	er review	
	Requirement Validation:	Visual insp	ection	
5 🗹 6 🗌 7 🗌 8 🗌			10	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is IT	S Consulte		

Markham's Public Realm is a long term program to create dynamic, beautiful, sustainable public spaces that reflect a diverse social and cultural identity. Project include enhancement that promote community engagement, beautification and sustainability. The Engineered Soil pilot will enhance challenging tree planting sites with Engineered Soil in a variety of conditions.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES Pilot established in coordination with Forestry to identify f
Cost/Quote:	29,200	0	problem tree planting sites. Birchmount and Enterprise, Ma
Internal Charges:	0	0	and Bur Oak, Rodick and 16th, Milne Dam ceremonial plan Enginerred soil will be used as an alternative to native soil,
External Consulting:	0	0	tree planting included in the project. Costs will be included
Contingency %: 5	1,460	0	Life Cycle Reserve Study at time of project assumption base
Sub Total:	30,660	0	updated replacement costs for each tree. Soil will not need t
HST Impact:	540	0	replaced. Trees already in Tree Keeper. Internal Funding:
Total Project Cost:	31,200	0	Landscape Recovery

SOURCE(S) OF FUNDING (\$)

Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Other Internal	31,200	0	0	0	0	0	0
TOTAL FUNDING	31,200					0	0

Components

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

DCA		Amount in	<u>Life Cycle</u>
Name	Year Amount	Study	Amount in Study:
			Amount Incl HST
			X
DCA and/or Life Cycle: Explain if t	here is a change in the year and/or cost:		Year in the study

MARKHAM 2024 PROJECT FUNDING REQUEST FORM

(MIARKHAM		Nu	umber:	24030
Project Name: Tree Planting in Grand Corne	ell and South Unionville Parks	Project (-	\$14,400 .sset/Expansion
Commission: Development Services Department: Parks Design & Construction Project Mgr: Richard Fournier	U Category:	seful Life: Annual		Pre Approval:
Ward(s): $_{CW}$ \square $_{1}$ \square $_{2}$ \square $_{3}$ \checkmark $_{4}$ \square $_{5}$ \checkmark $_{6}$ \square $_{7}$ \square $_{8}$ \square DETAILED DESCRIPTION (SCOPE OF PROJ	Cost Validation: Requirement Validation: ITS Involved Project: Is IT	Visual inspe	ection	
To plant trees in existing parks.				
BUILDING MARKHAM'S FUTURE TOGETH PROJECT COSTS (\$) 2024 Fut	ER: Safe & Sustainable Community ture Phases NOTES			

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Costs will be included in the Life Cycle Reserve Study at time of
Cost/Quote:	13,500	0	project assumption based on updated replacement costs for each
Internal Charges:	0	0	tree, will also be added to Tree Keeper. Internal Funding:
External Consulting:	0	0	Landscape Recovery
Contingency %: 5	675	0	
Sub Total:	14,175	0	
HST Impact:	249	0	
Total Project Cost:	14,400	0	

SOURCE(S) OF FUNDING	(\$)		Compone	ents			<u>Future</u>
Funding Type	<u>Budget</u>					TOTAL	<u>Phases</u>
Other Internal	14,400	0	0	0	0	0	0
TOTAL FUNDING	14,400					0	0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study:
		Amount Incl HST
		Year in the study
<i>v</i> 1	in if there is a change in the year and/or cost:	

2024 PROJECT FUNDING REQUEST FORM

MARKHAM	2024 PROJ	ECT FUNDI	NG REQU	EST FORM	M Number:	24	4031
Project Name: Vollowbol	l in Dessen Denk]	Project Cost:	\$146	5,900
Project Name: Volleybal					New A	sset/Ex	pansion
Commission: Developme				Usef	ul Life: 0	Pre Ar	proval:
Department: Parks Desi				Category: Mi		· r	1
Project Mgr: Richard Fo			Cost		her(specify in Not	tes)	
Ward(s): $CW \square 1 \square$	2 □ 3 □ 4 ✔				her(specify in Not	,	
5	6 7 8		-			((3)	
DETAILED DESCRIPTION	ON (SCOPE OF P	ROJECT):	IIS Involved	Project: Is ITS	Consulted?		
Expressing Markham's com Renaissance Program develo program's projects strive to visual appeal as it rejuvenato BUILDING MARKHAM	ops projects to creat maintain the high s es Markham's older	te improvements ba tandard of quality r parks. Community	se on of growth eflected in Mar	in Markahm an kham's newer pa lleyball to engag	d demand for voll orks with a high le	eyball c	courts. The
PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES Project was to	endered in 2022	, Cost for tender +	- 2% ve	ar over vear
Cost/Quote:	134,930	0	for inflation.	DCA funded (Sa	and volleyball cou	rt inclu	ding
Internal Charges:	0	0			tallation including		
External Consulting:	0	0			to request for tree overy account. Co		
Contingency %: 7	9,445	0	in the Life Cy	cle Reserve Stu	dy at time of proje		
Sub Total:	144,375	0	on updated re	eplacement costs	for the amenity		
HST Impact:	2,541	0					
Total Project Cost:	146,900	0					
SOURCE(S) OF FUNDING	<u> (\$)</u>		Compo	nents			
<u>Funding Type</u>	<u>Budget</u>				<u>TC</u>	DTAL	<u>Future</u> <u>Phases</u>
DCA	141,036	0	0	0	0	0	0
Other Internal	5,864	0	0	0	0	0	0
TOTAL FUNDING	146,900					0	0
	Per	sonnel Non Pe	rsonnel Re	venues Ex	penditures/(Revo	enues)	
OPERATING BUDGET I	<u>MPACT</u>	\$0 \$		\$0	\$0	,	
DCA/LIFE CYCLE DETA	ILS						
DCA				Amount in	Life Cycle		
Name		Yea		Study	Amount in Stud	٩v	
Park Development - Com Growth Related Capital P		City-wide 20	141,036	2,510,170	Amount Incl H	· _	
TOTAL FUNDING	logram de Donvory		141,036	2,510,170	Year in the stu		
DCA and/or Life Cycle	: Explain if there is	a change in the yea	ar and/or cost:			, <u> </u>	

Engineering

2024 PROJECT FUNDING REQUEST FORM

Number: 24032

Project Name: 407 Trans	itway Roalianm	ont Instification	Study	Project	Cost:	\$304	,600
		ient sustification	Study		Studi	ies/Pilot P	Programs
Commission: Development				Useful Life:	0	Pre Ap	proval: 🗆
Department: <u>Engineering</u> Project Mgr: Fei Yang	r >			Category: Major			
· · ·			Cost	Validation: Internal pe	er revie	w	
	2 3			Validation: Other(spec			
	6 7 8		•	Project: Is ITS Consult	-	,	
DETAILED DESCRIPTIO This study is to formalize the	,			5			
amendment, including but no re-visiting the constraints of near Birchmount Road and o comparison including the ant Secondary Plan conceptual a that the EA amendment, if ne 1. Markham Council express Markham Centre. 2. The City undertook an ass Highway 407, has a lower co unencumbered by the constru- area. See key map beside. 3. The development concept mentioned City's preferred al 4. On June 28, 2023, MTO p respond each of the requirem	the proposed 407 f conducting concep- icipated 50 year op- lignment will put of ecessary, can be sta ed concerns with t essment in 2010 in ost, could unlock the action requirement for the Markham Of lignment. The Seco- provided the City waters.	Transitway alignment tual design/feasibili perating cost of alig development on hole arted at early as possi- he recommended al adicating that an alter majority of the cost s of the transitway, Centre Secondary Pl ondary Plan is expect with the requirement	nt in regards to ty assessment an nment alternation of for those impa- sible. ignment of the for ernative alignment or of Markham and is more con lan Update Stud- cted to be comp- s for reopening	it passing through the M nd a high level order of yes. As both the EA-app acted lands, there is urge Fransitway, which traver ent, generally parallel an Centre lands for immed ducive to maximize the y (the "Update Study") lete in 2024. the 407 Transitway EA.	larkham magnitua proved a ency to c rses thro d on the liate develop is recom	District E de capital and Markh omplete th ugh the co north sid elopment ment pote	Energy Plant cost ham Centre his work so ore of e of ential of this the above
5. This study is considered ti BUILDING MARKHAM'S			Sustainable Com				
PROJECT COSTS (\$)	2024	<u>Future Phases</u>	NOTES				
Cost/Quote:	0	0					
Internal Charges:	24,750	0					
External Consulting:	250,000	0					
Contingency %: 10	25,000	0					
Sub Total:	299,750	0					
HST Impact:	4,840	0					
Total Project Cost:	304,600	0					
SOURCE(S) OF FUNDING	<u> (\$)</u>		Compo	nents			T (
Funding Type	<u>Budget</u>				<u>1</u>	TOTAL	<u>Future</u> <u>Phases</u>
DCA	304,600	0	0	0	0	0	0
TOTAL FUNDING	304,600					0	0
OPERATING BUDGET IN	MPACT Per	rsonnel Non Pe \$0 \$		venues Expenditu \$0	ires/(Re \$0	venues)	
DCA/LIFE CYCLE DETAI	LS						

MARKHAM

<u>DCA</u> Name	Year	A Amount	mount in Study	Life Cycle
Hard - Studies - Trans., Servicing, Enviro., Cycling, Traffic Calming, Noise, Subwatershed, Erosion Study Update etc.		304,600	18,003,000	Amount in Study: Amount Incl HST
TOTAL FUNDING		304,600	18,003,000	Year in the study

60

407 Transitway Realignment Justification Study

Markham should be aware of a number of project interdependences related to the Markham Centre:

- Unionville GO Station TOC (Metrolinx)
- Hwy. 407 Transitway (MTO)
- The Greater Golden Horseshoe ("GGH') Plans East-West Cross-Regional Connection. A higher order transit connection across the top of Toronto that would connect existing planned Go Rail, LRT's and subways between Burlington and Oshawa. (Metrolinx)
- Also VIVA (York)

To reopen the Transitway EA/TPAP MTO would need the following:

- A Provincial need would have to be established and justified to re-visit alignment options previously ruled out, including options on south side of Highway 407 ETR. This could include changes in land-use planning, higher densities, and urban center road network which need to be re-evaluated. Is there new information (eg. density, development plans) which can support consideration of reviewing current TPAP. Is this reflected in the current Secondary Plan proposal. Higher densities will increase demand on all transit facilities servicing Markham Centre, which could greater support the MTO recommended alignment.
- 2. The decision to undertake the review of the EPR and/or an addendum rests with the proponent
- 3. The proponent may be requested to "reopen" the TPAP under two conditions:
 - a. Under Section 15 of O. Reg. 231/08 "Changes after statement of completion of transit project assessment process", and,
 - b. Under Section 16 of O. Reg. 231/08 "Review of transit projects not commenced within 10 years".
- 4. As there is no funding for the Transitway at this time, it would need to be determined if MTO would still be the proponent to undertake the review of the TPAP and document the changes made from the December 2010 EPR. Metrolinx would be the proponent for the Transitway going into Detail Design.
- An external stakeholder (e.g., Markham) can make a request to MTO to investigate. A full evaluation of the changes, including an assessment of alternatives, environmental impact assessment/mitigation, consultation, etc. would need to occur and be documented as part of the addendum process. In

this case, the proponent would need to review the request and determine its feasibility on the change. If it is agreed upon that the change is warranted, additional justification would need to be provided.

- 6. This would require two EA addenda (can be done simultaneously); Two EA sections in this area.
- 7. Take approximately 12-18 months to complete, depending on key factors (field investigations, private property impacts and stakeholder consultations);
- 8. Freeze all lands within study area from development while Addenda are taking place.
- Development of a Consultation Plan and notify impacted stakeholders (private property owners, MECP, other agencies of interest (ex. MX, Markham, York Region, YRRTC, 407 ETR, MNRF, TRCA, etc.);
- 10. Consultation would include newspaper notifications, mailed notifications to property owners within 30m of new alignment, impacted agencies/stakeholders, impacted Indigenous communities, publication of Addendum on project website.
- 11. Once all stakeholders have agreed to changes, process involves a 30-day public review period followed by a 35-day Minister decision period.

A study to further assess the feasibly of the alignment proposed by Markham, which follows the 407ETR on the north side would help to provide rationale to consider reopening the TPAP, and consider this option. The following would need to be addressed. This alignment was reviewed and was not taken forward as part of the original EA/TPAP due to the following:

- Would require large bridges/structures, to cross over 407ETR, over GO rail line and cross Kennedy Road to the East, which would be costly. This was not considered in the MRC review. How this will be resolved needs to be investigated.
- Crossing the Kennedy Rd. interchange is a major concern. This may potentially require one large structure which would cross over 407ETR, over GO Rail, over Kennedy Road and interchanges and finally back over 407ETR.
- The MTO preferred tunnel alignment meets requirements from a vertical alignment perspective. The Markham proposed alignment would be at a higher grade, does it work from a Transit Hub perspective.

- Moving the Transitway away from the other services and away from a central location in Markham Center to attract walk in ridership, will have a major impact on Transitway ridership. This would have a large impact on Mobility to and from Markham Centre. The expense of crossing 407ETR with Transitway was justified in light of a single location transit hub, preferably in the heart of Markham Centre which supports MTO's Transit Supportive Guidelines
- Does the decentralized hub preferred by Markham meet Metrolinx and provincial recommended transit guidelines. Is VIVA in agreement with a proposed shift in their alignment into the Urban Centre. Consensus is required by all agencies regarding approach.

It should be noted the current recommended TPAP alignment met the following objectives:

- A 407 Transitway Station and mobility hub in the optimum location to serve both residential and commercial land uses in the eastern half of Markham Centre including proposed community amenities;
- Good connectivity to the other transit services using the hub, i.e., GO Stouffville Line Station and the YRT/Viva bus terminal;
- A 407 Transitway Station location that maximizes the benefits of the investment in capital works to cross Highway 407 twice and penetrate Markham Centre lands;
- Adequate access to/from the surface road network for transitway BRT vehicles;
- Alignment geometry compatible with future road network options between the point where the transitway enters Markham Centre lands and the Kennedy Road crossing;
- Sufficient tangent adjacent to the station to accommodate a potential rail crossover if facility is converted to LRT;
- Avoiding, if practical, impact on existing YMCA property and minimizing constraints on future development both east and west of the GO Line.;
- Provision of a feasible and cost effective crossing of the Kennedy Road Interchange.

407 Transit way Realignment



2024 PROJECT FUNDING REQUEST FORM

Number: 24033

		Project (Cost:	\$410,600
Project Name: Apple Creek Blvd Road Safety Improven	nents (Design & CA)		New	Asset/Expansion
Commission: Development Services Department: Engineering	U	Jseful Life:	15	Pre Approval:
Project Mgr: Manzora Nero	Category:	Minor		
Ward(s): $CW \square 1 \square 2 \checkmark 3 \square 4 \square$	Cost Validation:		•	
5 6 7 8	Requirement Validation:			otes)
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulte	:d? □	

Following completion of a comprehensive safety review of the corridor in 2023, this project is intended to improve safety on Apple Creek Boulevard. Currently, Apple Creek is a 4-lane major collector road, with no left-turn lanes at several intersections/driveways, limited sightline visibility at several locations, and a lack of cycling amenities. This project involves retaining an engineering consultant to undertake the detailed design of the conceptual plan identified through the safety review of the corridor, completed in 2023. Design will consist of a "road diet", including civil works required at select locations, and other safety improvements. Public consultation will also be conducted. Once detailed design is approved, consultant will also be required to conduct the CA during the course of the construction phase.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Cost Validation: Estimate based on a per kilometer cost of the 2018
Cost/Quote:	0	1,250,000	John Street MUP detailed design, and considers inflation impacts.
Internal Charges: External Consulting:	33,363 337,000	123,750 0	A budget will be submitted for 2025 to implement the finalized design. Budget estimate is noted under "future phase". This request includes full time CA & SI
Contingency %: 10	33,700	125,000	includes full time CA & SI.
Sub Total:	404,063	1,498,750	
HST Impact:	6,524	24,200	
Total Project Cost:	410,600	1,523,000	

SOURCE(S) OF FUNDING (\$)

ARKHAM

BOUNCE(B) OF FUILDING	- (ψ <i>)</i>	Components					
<u>Funding Type</u>	Budget					TOTAL	<u>Future</u> <u>Phases</u>
DCA	266,890	0	0	0	0	0	989,950
Non-DC Growth	71,855	0	0	0	0	0	266,525
Other Internal	71,855	0	0	0	0	0	266,525
TOTAL FUNDING	410,600				=	0	1,523,000

Components

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

<u>DCA</u> Name	Year	A Amount	mount in Study	Life Cycle
Hard - Special Projects - City-wide Street Safety and Traffic Calming, various locations		266,890	3,964,174	Amount in Study:
TOTAL FUNDING		266,890	3,964,174	Year in the study

66



2024 Apple Creek Blvd Road Diet Design (Conceptual)



Buffered Bicycle Lane in each direction

MARKHAM ²	024 PROJECT FUNDI	NG REQUEST FO	RM	Number:	24034
Project Name: Cycling and I	Pedestrian Advisory Committ	ee	Project	-	\$28,000
Commission: Development S	ervices	ι	Jseful Life:		S/Pilot Programs Pre Approval:
Department: <u>Engineering</u> Project Mgr: <u>Fion Ho</u>		Category:	Annual		
Ward(s): $CW \checkmark 1 \simeq 2$	3 4	Cost Validation:			
		Requirement Validation: ITS Involved Project: Is I		-	es)

DETAILED DESCRIPTION (SCOPE OF PROJECT):

CPAC was established in September 2003, as per the direction of the Transportation Committee. In the Terms of Reference, the specific duties of CPAC are to include, but not limited, the following: (i) Advising staff of various departments and Council on the design, development and delivery of cycling and pedestrian policies, programs and facilities to promote and enhance cycling and walking; (ii) Compiling research and statistics on cycling and pedestrian issues; (iii) Working with local neighborhoods by collecting distributing information related to cycling and walking; (iv) Promoting an increased public awareness of cycling and walking as environmental forms of transportation; (v) Assisting in fundraising opportunities; (vi) Discussing and resolving any issues between cyclist and pedestrians; (vii) Assisting in the integration of bicycle and pedestrian facilities into significant development proposals as they rise.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

<u>2024</u>	<u>Future Phases</u>	NOTES 10% funded from DCA
: 25,000	0	90% funded from Non-DC Growth
: 0	0	
: 0	0	
2,500	0	
: 27,500	0	
: 484	0	
: 28,000	0	
	$\begin{array}{c} : & 25,000 \\ : & 0 \\ : & 0 \\ 0 & 2,500 \\ : & 27,500 \\ : & 484 \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

SOURCE(S) OF FUNDING (\$)

BOURCE(B) OF FUIDER		Compone	-1115			Future	
Funding Type	<u>Budget</u>					<u>TOTAL</u>	<u>Phases</u>
DCA	2,800	0	0	0	0	0	0
Non-DC Growth	25,200	0	0	0	0	0	0
TOTAL FUNDING	28,000					0	0

Components

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

<u>DCA</u> Name	Year	A Amount	mount in Study	Life Cycle
Hard - Special Projects - Bike Lanes on Collector / Arterial Roads		2,800	3,690,232	Amount in Study:
TOTAL FUNDING		2,800	3,690,232	Year in the study

70

2024 PROJECT FUNDING REQUEST FORM

24035 Number:

		Project (Cost:	\$28,761,200
Project Name: Elgin Mills -Woodbine to Warden Ave (P	roperty)		New	Asset/Expansion
Commission: Development Services	τ	Jseful Life:	0	Pre Approval:
Department: Engineering	Catagory	Major		
Project Mgr: Marina Riad	Category:	wiajoi		
Ward(s): $CW \square 1 \square 2 \checkmark 3 \square 4 \square$	Cost Validation:	Other(speci	fy in No	otes)
5 6 7 8	Requirement Validation:	Other(specif	fy in No	otes)
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulte	d?□	
This budget request is for the Property Acquisition requirements for	or Elgin Mills Phase 1, from	Woodbine A	ve to V	Varden Ave. The

Budget request also includes fees for external consultant to start the negotiation with the property owners and to acquire the properties. The Elgin Mills Class EA Study identified the need to widen Elgin Mills from Woodbine Avenue to McCowan Road from 2 lane rural cross section to 4 lane urban cross section with 4.0 m Active Transportation Facilities. The EA has been completed in Jan 2024 with Detail design to commence in April 2024, and be completed by May 2026. Property requirements and utility relocation for this project was identified during the EA process. Construction is anticipated to start in 2026. The proposed budget does not include any expropriation cost. If required, staff will prepare a separate report to Council.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES As per the current anticipated design schedule, we are expecting
Cost/Quote:	25,243,261	0	60% design by fall 2024, at which point Real Property will begin
Internal Charges:	504,865	0	the negotiation with affected property owners. Real Property have
External Consulting:	0	0	been advised of the project and the required properties. As per conversation with Real Property, land acquisition can take up to 12
Contingency %: 10	2,524,326	0	months from the date of start of negotiation (60% date), while
Sub Total:	28,272,452	0	expropriation can take more than 18 months.
HST Impact:	488,710	0	
Total Project Cost:	28,761,200	0	

SOURCE(S) OF FUNDING (\$)

RKHAM

SOURCE(S) OF FUNDIN	<u>G (\$)</u>		Compone	ents			F 4
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
DCA	28,761,200	0	0	0	0	0	0
TOTAL FUNDING	28,761,200					0	0

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

DCA	T 7		mount in	<u>Life Cycle</u>
Name	Year	Amount	Study	A manual in Standard
Hard - Properties Acquisition - Roads & Structures - Elgin	2024	28,761,200	6,150,973	Amount in Study:
Mills Rd			, ,	Amount Incl HST
TOTAL FUNDING		28,761,200	6,150,973	Year in the study

72


ING REQUEST FO	ORM	Number:	24036
	Proje		\$546,200 ss/Pilot Programs
		fe: 0	Pre Approval:
Requirement Validation	: Other(sp	becify in No	
	Category Cost Validation Requirement Validation	Useful Lif Category: Annual Cost Validation: Other(sp Requirement Validation: Other(sp	Number: Project Cost: Studie Useful Life:

BUILDING MARKHAM'S FUTURE TOGETHER: Stewardship of Money & Resources

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>
Cost/Quote:	0	0
Internal Charges:	546,195	0
External Consulting:	0	0
Contingency %: 0	0	0
Sub Total:	546,195	0
HST Impact:	0	0
Total Project Cost:	546,200	0

SOURCE(S) OF FUNDING (\$) Components <u>Future</u> Funding Type Phases **TOTAL Budget** 0 0 DCA 546,200 0 0 0 0 546,200 0 0 **TOTAL FUNDING**

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

DCA/LIFE CYCLE DETAILS

DCA		А	mount in	<u>Life Cycle</u>
Name	Year	Amount	Study	Amount in Study:
Hard - Studies - Trans., Servicing, Enviro., Cycling, Traffic		546,200	18,003,000	Amount in Study.
Calming, Noise, Subwatershed, Erosion Study Update etc.				Amount Incl HST
TOTAL FUNDING		546,200	18,003,000	Year in the study

2024 PROJECT FUNDING REQUEST FORM

24037 Number:

			Project (Cost:	\$73,100
Project Name: Ente	rprise Blvd. @ Rouge Valley Dr. Po	edestrian Crossing		New	Asset/Expansion
Commission: Deve	opment Services	. T	Jseful Life:	30	Pre Approval:
Department: <u>Engir</u> Project Mgr: Manz		Category:		50	rie Appiovai. —
· · ·	1 2 3 4	Cost Validation:	Third party	estimat	e
	5 6 7 8	Requirement Validation:	Condition a	ssessme	ent
DETAILED DESCRI	PTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulte	d? 🗆	
corner of the subject in	the design and implementation of a signa attraction. Recent residential development resection is currently signalized, but there i	nt at the NW quadrant and cons	struction of a	a new si	dewalk has triggered

pedestrians to cross the rapidway illegally and creating a pedestrian safety issue.

Project is anticipated to be completed by end of 2024.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$) 2024 Future Phases
As the bus rapidwa
Cost/Quote: 60,000 0 are maintained by the
Internal Charges: 5,940 0 cost sharing agreem
External Consulting: 0 Region is developin
requirements are not
Contingency %: 10 6,000 0 design, signal pole/
Sub Total: 71,940 0 signals, new push b
HST Impact: 1,162 0 painted crosswalk a
new crossing.
Total Project Cost: 73,100 0

SOURCE(S) OF FUNDING (\$)

ARKHAM

SOURCE(S) OF FUNDING (\$) Components					Enturo		
<u>Funding Type</u>	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
		0	0	0	0	0	0
DCA	73,100	0	0	0	0	0	0
TOTAL FUNDING	73,100				=	0	0

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

DCA/LIFE CYCLE DETAILS

<u>DCA</u>		A	mount in	<u>Life Cycle</u>
Name	Year	Amount	Study	Amount in Study:
Hard - Intersection - City-wide Intersection Improvements		73,100	1,685,774	
TOTAL FUNDING		73,100	1,685,774	Amount Incl HST
				Year in the study



Enterprise Blvd @ Rouge Valley Dr. W. Pedestrian Crossing of Rapidway

2024 PROJECT FUNDING REQUEST FORM

Number: 24271

			Project (Cost:	\$962,500
	Main Street Markham Reconst. & Sar	nit. Sewer Upgrade Des.		New	Asset/Expansion
	Development Services	t	Jseful Life:	0	Pre Approval:
Department: Project Mgr:	2 2	Category:	Major		
Ward(s):	cw □ 1□ 2□ 3□ 4 🗹	Cost Validation:	· • •	•	· · · · · · · · · · · · · · · · · · ·
	5 6 7 8	Requirement Validation: ITS Involved Project: Is I	• •	·	otes)
DETAILED DE	SCRIPTION (SCOPE OF PROJECT):	115 involved Project: Is I	15 Consulte	u : 🗆	

A Class Environmental Assessment (Class EA) for Main Street Markham from Highway 407 to the future Donald Cousens Parkway was completed in 2010. Recommended improvements as part of the Class EA study were already designed and implemented in the past 10+ years along majority of Main Street Markham, with the exception of the stretch between 16th Avenue and Bullock Drive. This project involves retaining an engineering consultant to undertake the detailed design of the Main Street Markham improvements along this "remaining stretch". Scope of design will include pavement reconstruction, streetlighting, streetscaping, traffic signals, as well as replacement of watermain, storm sewer and sanitary sewer.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES To be funded from:
Cost/Quote:	0	0	DC - 20%
Internal Charges:	78,210	0	Life Cycle – 80%
External Consulting:	790,000	0	The breakdown of the funding source is preliminary and will be
Contingency %: 10	79,000	0	finalized once the detailed design work is completed.
Sub Total:	947,210	0	
HST Impact:	15,294	0	
Total Project Cost:	962,500	0	

SOURCE(S) OF FUNDING (\$)

ARKHAM

Components

Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
DCA	192,500	0	0	0	0	0	0
Operating Funded Life Cycle	770,000	0	0	0	0	0	0
TOTAL FUNDING	962,500					0	0

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

DCA		A	mount in	Life Cycle
Name	Year	Amount	Study	
Hard - Roads - City-wide Miscellaneous	2022	192,500	4,432,413	Amount in Study:
TOTAL FUNDING		192,500	4,432,413	Amount Incl HST
				Year in the study

68 Main Street Markham **Project Limit** Parkway Ave

2024 PROJECT FUND	ING REQUEST FORM Number	er: 24038
Project Name: Markham Center Trails Phase 4 Design &	Project Cost:	\$1,279,300
		w Asset/Expansion
Commission: Development Services	Useful Life: 0	Pre Approval:
Department: Engineering		i ie Appiovai. —
Project Mgr: Lily Li	Category: Major	
Ward(s): $CW \square 1 \square 2 \checkmark 3 \square 4 \square$	Cost Validation: Other(specify in	Notes)
	Requirement Validation: Other(specify in]	Notes)
5 6 7 8		,
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?	

Design of Markham Centre Trails Phase 4 from Apple Creek to Highway 7, appromately 1600m in length. The design will include inwater work and extensive consultation with external agencies, including the TRCA, due to two proposed bridges over the Rouge River.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The budget was derived based on recently awarded design
Cost/Quote:	0	4,500,000	consultant fees for trail projects of similar size and scope. The
Internal Charges:	103,950	445,500	design to commence in July 2024 and to be completed by Dec
External Consulting:	1,050,000	0	2025. This budget includes Design and CA & SI. 65% funded from DCA
Contingency %: 10	105,000	450,000	35% funded from Project #22328
Sub Total:	1,258,950	5,395,500	
HST Impact:	20,328	87,120	
Total Project Cost:	1,279,300	5,482,600	

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING	<u> </u>	Components					
Funding Type	Budget					TOTAL	<u>Future</u> <u>Phases</u>
DCA	831,546	0	0	0	0	0	3,563,690
Other Internal	447,754	0	0	0	0	0	1,918,910
TOTAL FUNDING	1,279,300				=	0	5,482,600

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

DCA/LIFE CYCLE DETAILS

DCA		А	mount in	<u>Life Cycle</u>
Name	Year	Amount	Study	Amount in Study
Park Development - Community/City-Wide - Markham	2024	831,546	518,325	Amount in Study:
Centre Trails				Amount Incl HST
TOTAL FUNDING		831,546	518,325	Year in the study



Figure Title	(HAM (CENTER TRA	L MASTER			
PROPOSED TRAIL ROUTE ALTERNATIVE 2						
Drawn	Checked	Date	Figure No.			
HN	TR	2023/05/24	6-2			
Scale		Project No.	0-2			
H 1:12,00	00	300050254				

MARKHA	2024 PROJECT FUNDING REQU	JEST FOI	RM NI	umber:	24039
Project Name: Ma	rkham Centre Trails Phase 3 - Construction &CA		Project (-	\$1,403,600
Commission: <u>Dev</u> Department: <u>Eng</u>	elopment Services	U	seful Life:	0	Pre Approval:
Project Mgr: Lily	li	Category:	v		
Ward(s): CW		st Validation: t Validation:			
DETAILED DESC	SINGLE FOR SECTION (SCOPE OF PROJECT):	d Project: Is I	ΓS Consulte	d? 🗆	

Construction of Markham Centre Trails Phase 3 on the south side of the Rouge River from Warden Avenue to Verdale Crossing, approximately 400m in length. This request includes construction, contract administration and inspections.

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

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Design is at 60% and to be completed by January 2024. The
Cost/Quote:	960,000	0	Construction tender to be issued in April 2024, construction to
Internal Charges:	114,048	0	commence in August 2024 and to be completed by Dec 2024. Th
External Consulting:	192,000	0	RFP for CA&SI to be issued in April 2024. Carry forward from account # 23102
Contingency %: 10	115,200	0	65% funded from DCA and 35% funded from project 22328
Sub Total:	1,381,248	0	
HST Impact:	22,303	0	
Total Project Cost:	1,403,600	0	

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING	; (\$)		Compon	ents			<u>Future</u>
Funding Type	Budget					<u>TOTAL</u>	<u>Phases</u>
Carry Forward	916,800	0	0	0	0	0	0
DCA	316,420	0	0	0	0	0	0
Other Internal	170,380	0	0	0	0	0	0
TOTAL FUNDING	1,403,600					0	0

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

DCA/LIFE CYCLE DETAILS

<u>DCA</u>		А	mount in	<u>Life Cycle</u>
Name	Year	Amount	Study	Amount in Studen
Park Development - Community/City-Wide - Markham	2024	316,420	518,325	Amount in Study:
Centre Trails				Amount Incl HST
TOTAL FUNDING		316,420	518,325	Year in the study



Figure Title MARK	НАМ (CENTER TRAII	MASTER				
	PROPOSED TRAIL ROUTE ALTERNATIVE 2						
Drawn HN	Checked TR	Date 2023/05/24	Figure No.				
Scale		Project No.	6-2				
H 1:12,00	0	300050254					

2024 PROJECT FUN	DING REQUEST FORM	umber:	24040
Project Name: Markham Cycles	Project (-	\$22,400
Commission: <u>Development Services</u> Department: <u>Engineering</u> Project Mgr: Fion Ho	Useful Life: Category: Annual	0	Pre Approval:
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$	Cost Validation: Other(specie Requirement Validation: Other(specie	fy in Note	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted	d? □	

This program is to support, promote and encourage active transportation in Markham through community outreach and education. Through a partnership with The Centre for Active Transportation, the activities of this community bike hub provide a gathering place for residents and newcomers to explore and experience cycling in terms of equipment, maintenance needs, cycling safety and other basic cycling needs. In addition, initiatives such as Markham Cycles are recommended in the Active Transportation Master Plan to encourage cycling for short trips and cycling access to promote greater use of public transit.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

Sub Total:22,0000HST Impact:3870Total Project Cost:22,4000	PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting: Contingency %: 10	2024 20,000 0 2,000	Future Phases 0 0 0 0 0 0 0	NOTES Markham Cycles has transitioned from The Centre for Active Transportation (TCAT) to Centre for Immigrant and Communit Services (CICS) to continue providing service to Markham communities. The contribution from Markham will remain at \$2 With 2 bike hub locations now (Milliken Mills and Centennial Community Centers), the operating costs are higher and the Cit
HST Impact: 387 0	Sub Total:	22,000	0	share of the budget has increased by \$5K.
Total Project Cost:22,4000	HST Impact:	387	0	10% DC and 90% Non-DC Growth.
	Total Project Cost:	22,400	0	

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING	<u> (\$)</u>	Components				F 4	
Funding Type	Budget					TOTAL	<u>Future</u> <u>Phases</u>
DCA	2,240	0	0	0	0	0	0
Non-DC Growth	20,160	0	0	0	0	0	0
TOTAL FUNDING	22,400				=	0	0

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

DCA/LIFE CYCLE DETAILS

<u>DCA</u>		A	mount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	
Hard - Special Projects - Bike Lanes on Collector / Arterial		2,240	3,690,232	Allount III Study.	
Roads				Amount Incl HST	
TOTAL FUNDING		2,240	3,690,232	Year in the study	

Markham Cycles Program Summary 2022-2023

Project Objective:

Markham Cycles is a community program with the goal of increasing cycling in Markham by removing barriers and building a cycling community.

Background:

Launched in July 2019, the Markham Cycles program was founded and led by The Centre for Active Transportation (TCAT) at Clean Air Partnership, a registered charity. Starting in 2024, it will be led by the Centre for Immigrant and Community Services (CICS), and long time Markham Cycles program partner.

With the first bike hub placed at the Milliken Mills Community Centre, the program included a number of activities such as bike loan, DIY bike repair, refurbishment of donated bikes, group rides and workshop for all ages. These activities are offered to residents at no charge. Markham Cycles also supports numerous community programs and events with the City of Markham, the Cycling & Pedestrian Advisory Committee, the Centre for Immigrant and Community Services, Markham Public Library, York Region District School Board and York Region.

In 2022, a second bike hub location was established at the Centennial Community Centre.

Program Benefits

- 1. ACTIVE MARKHAM: Increased physical activity facilitated through guided group rides
- 2. **GREENER MARKHAM**: Reduced driving and participants learned more about climate action
- 3. EMPOWERED YOUTH: 500+ youth engaged in the program, and 70+ were trained as mechanic assistants
- 4. BIKES FOR ALL: residents have more access to bikes and tools
- 5. **SUPPORT FOR CHANGE**: participants were supported to adopt cycling, more people feel confident and comfortable riding bikes.
- 6. **SKILLED MARKHAM**: residents were trained as mechanic assistants and cycling educators.





Programs & Metrics

The table below provides a summary of the programs offered by Markham Cycles, and participation statistics since 2019.

It is important to highlight that since the Covid-19 pandemic in early 2020, it has prompted increase in cycling. It also presented some challenges for community programming. Due to public health restrictions and closure of Milliken Mills Community Centre and Library, the 2020 and 2021 program were altered to continue provide cycling programming at limited capacity.

Community Programs	2019	2020	2021	2022	2023
Drop-In Bike Repair Session	Milliken Mills C.C.	Enterprise Blvd. & Saturdays in Park	Open Street & Saturdays in Park & Bike Hubs	Open Street & Bike Hubs	Markham Cycles Day & Bike Hubs
Workshops/ Webinar	•	•	•	•	•
	In-Person	Online	Online	Hybrid	In-Person
Guided Community Rides	•	Х	х	•	•
Learn to Ride Sessions	•	х	х	Х	х
Bike Loan (partnership with Markham Public Library)	•	х	х	•	•
Community Outreach	•	•	•	•	•
Bike Rescue & Donation	•	•	Х	•	•

Program	Metrics	2019	2020	2021	2022	2023*
DIY Bike Repair	Number of sessions	32	17	10	32	7
Session/Pop-up Bike	Number of visitors	321	627	122	406	141
Booths	Number of bicycle repairs	193	340	45	449	117
Workshops and	Number of workshop	10	9	28	5	1
Webinars Number of workshop att	Number of workshop attendees	84	780	973	65	20

Guided Community	Number of community rides held	12	x	19	12	3
Rides	Number of ride participants	164	х	142	115	40
Learn to Ride	Number of sessions	5	х	х	х	Х
	Number of participants	41	х	Х	Х	Х
Bike Loan Program	Number of bike loaned	135	х	304	392	99
	Number of sessions	10	x	9	7	4
School Programs	Number of participants (school booths)	483	x	172	181	90
	Number of participants (assemblies)	x	x	х	x	1500
Markham Cycles Mara	Number of participants	Х	182	Х	Х	Х
Markham Cycles More	Number of Submission	Х	544	Х	х	Х
Bike Rescue	Number of bike fixed	5	82	84	90	27
Community Outreach (i.e. City events, Farmers	Number of sessions	14	x	31	11	2
Market, York Region Repair Café)	Number of participants	224	x	317	234	75
	Number of bike fixed	216	422	601	765	242
Overall Program Participation	Number of participants	1336	1407	1431	1558	1909
	Number of volunteers hours	400.5	452	457	800	155

* As of June 22, 2023.

Program Highlights of 2022 & 2023:

Markham Cycles continued to provide its core services to Markham residents as we continued to navigate through the changing Public Health guidelines around COVID-19 pandemic in 2022. And in 2023, the programming has expanded as restrictions have lifted and that many of the City programs and events have been re-instated. Here is a list of key achievements of the 2022/223 program:

- Continue the operations of two Bike Hubs (Milliken Mills C.C. & Centennial C.C.)
- Community bike booths at Markham Open Street, CICS, Markham Cycling Day and other City events
- Pop-up bicycle education and repair booth at 12 elementary schools during the 2022/2023 school year
- Provided support for the 2022 School Street Pilot at John McCrae P.S.
- Bike loan program offered at Markham Village Library
- "Earn Your Bike" program for newcomer youth at CICS
- Refurbished donated bicycles with volunteers
- Developed new Recycle to Ride program with York Region's Circular Economy Initiative Fund to expand Bike Rescue program
- Convened more than 10 community bike hub operators from across Ontario to discuss best practices for supporting cycling culture
- On track to one again grow year over year overall program participation in 2023

Programming for 2024:

The Markham Cycles program will be transitioned and managed by the Centre for Immigrants and Community Services in 2024. The core services are anticipated to remain, and that the programming will continue to serve Markham communities. In 2024, Markham Cycles will continue:

- Operation of two community bike hubs at Milliken Mills and Centennial Community Centre
- Support Active School Travel and School Streets Pilot with YRDSB
- Opportunities to expand e-bike and pedal assist bikes in our fleet
- Opportunities to expand bike loan program at other library branches.



MARKHAM	2024 PROJECT FUN	DING REQUEST FOR	RM I	Number:	24041
Project Name: Markham	Cycling Day Event		Project	Cost:	\$16,800
				Studies	s/Pilot Programs
Commission: Development	Services		eful Life:	0	Pre Approval:
Department: Engineering				0	Tie Appiovai. —
Project Mgr: Fion Ho		Category: A	Annual		
Ward(s): CW 🖌 1	2 3 4	Cost Validation:	Other(spe	cify in Not	es)
		Requirement Validation: (Other(spe	cify in Not	es)
5		– ITS Involved Project: Is IT	'S Consult	ted?	

DETAILED DESCRIPTION (SCOPE OF PROJECT):

The Annual Markham Cycling Day event is a major GTA cycling event and the largest in York Region, attracting participants from across the GTA. It includes events for children and cycling group rides of different distances. It is led by the Cycling and Pedestrian Advisory Commitee with staff support. CPAC also helps to organize volunteers necessary to prepare and run the event.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES The project has a bigger budget with contribution from Markham
Cost/Quote:	15,000	0	\$15K and the rest will be funded from sponsorship. The event has
Internal Charges:	0	0	moved to June to align with Bike Month and relocated to Markha
External Consulting:	0	0	Centre (Aviva Parking Lot). Due to growing demand and overall costs increase due to inflation, an increase budget of \$5k is added
Contingency %: 10	1,500	0	the 2024 budget. 10% from DCA and 90% from Non-DC Growth
Sub Total:	16,500	0	
HST Impact:	290	0	
Total Project Cost:	16,800	0	

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING	Components						
Funding Type	Budget					TOTAL	<u>Future</u> <u>Phases</u>
DCA	1,680	0	0	0	0	0	0
Non-DC Growth	15,120	0	0	0	0	0	0
TOTAL FUNDING	16,800				=	0	0

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

DCA/LIFE CYCLE DETAILS

DCA		А	mount in	<u>Life Cycle</u>
Name	Year	Amount	Study	Amount in Study:
Hard - Special Projects - Bike Lanes on Collector / Arterial		1,680	3,690,232	Alloulit III Study.
Roads				Amount Incl HST
TOTAL FUNDING		1,680	3,690,232	Year in the study



Markham Cycling Day 2023: Event Overview

In 2023, the annual Markham Cycling Day returned as an in-person event since the COVID-19 Pandemic. The event was held on Sunday, June 13th, 2023, at Markham Centre (Aviva Parking Lot) from 8 AM to 1 PM. This signature cycling event included **3 Tour de Markham community** rides at 12km (family-friendly), 30km and 60km that welcomed cyclists with various cycling experiences, abilities and comfort levels.

The 3 guided community rides took participants through various Markham landmarks, parks & trails and existing cycling facilities. This includes Markham Centre, Rouge Valley Trail, Aaniin Community Centre, John St. MUP, Lake-to-Lake Cycling Route and more. The 3 route maps are shown below.



12 KM Tour Route

Route Highlights:

- Markham Centre
- Rouge Valley Trail
- Milne Dam Conservation Park
- Main Street Unionville



30 KM Tour Route

Route Highlights:

- Markham Centre
- Rouge Valley Trail
- Milne Dam Conservation Park
- **Boxgrove Community** Park

90



60 KM Tour Route

Route Highlights:

- Markham Centre
- Markham Fairground
- Aaniin Community Centre
- John Street MUP
- Lake to Lake Cycling Route
- Highway 404 Flyover













Another key feature of the event was the popular **Bicycles Races for Children ages 3 to 10** that took place at the main event site. Participants, who were assigned to individual race groups, engaged in a fun and safe bike course around the parking lot for a chance to win a gold, silver or bronze medal.



Markham Cycling Day event was supported by a number of local sponsors, community partners and various City of Markham departments who provided entertainment, refreshment, interactive games, bike repair services and more. With over 2000 participants in attendance (and sold-out registration), the event was a great success attracting many residents from and outside of Markham. Taken place in June, which coincided with BIKE MONTH, the event continues to promote and raise awareness of cycling in Markham.



MARKHAM 2024 PROJECT FUNDI	NG REQUEST FO	RM	Number:	24042
Project Name: Markham School Zone Safety Guideline		Projec	t Cost:	\$335,000
			Studies	s/Pilot Programs
Commission: Development Services	Ľ	Jseful Life	: 0	Pre Approval:
Department: Engineering	-		. 0	rie rippiovai.
Project Mgr: Fion Ho	Category:	Major		
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation:	Other(spe	ecify in Not	es)
	Requirement Validation:	Other(spe	ecify in Not	es)
	ITS Involved Project: Is I'	TS Consul	lted?	

DETAILED DESCRIPTION (SCOPE OF PROJECT):

This project involves retaining a consultant to develop School Zone Safety Guidelines for the City. Building upon findings from the Active School Travel pilot, this study will evaluate and develop standard policies & procedures on various engineering measures targeting improved school zone safety and active school travel. Engineering measures include enhanced pavement markings, signage, parking and stopping restrictions, school crossing guards, pedestrian cross-overs (PXOs), in-road flexible signs and speed radar display boards. The goal is to have a consistent application of these measures at elementary and/or high school zones across the City. In addition, the study scope will include a data-driven annual multi-year implementation program to apply the measures across the City. Consultation with the public and key stakeholders, such as York Region District School Board, York Catholic School Board, and York Region, will be conducted to inform the development of the guidelines.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases
Cost/Quote:	0	0
Internal Charges:	27,225	0
External Consulting:	275,000	0
Contingency %: 10	27,500	0
Sub Total:	329,725	0
HST Impact:	5,324	0
Total Project Cost:	335,000	0

SOURCE(S) OF FUNDING (\$)

Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
DCA	67,000	0	0	0	0	0	0
Other Internal	268,000	0	0	0	0	0	0
TOTAL FUNDING	335,000					0	0

Components

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

<u>DCA</u>		А	mount in	<u>Life Cycle</u>
Name	Year	Amount	Study	A manual in Standard
Hard - Studies - Trans., Servicing, Enviro., Cycling, Traffic		67,000	18,003,000	Amount in Study:
Calming, Noise, Subwatershed, Erosion Study Update etc.				Amount Incl HST
TOTAL FUNDING		67,000	18,003,000	Year in the study

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2024 PROJECT FUND	ING REQUEST FORM	Number:	24043
Project Name: McCowan Road Culvert Replacement	Pro	ject Cost:	\$441,900
Commission: Development Services		Repair	/Replace
Department: Engineering	Useful L	ife: 0	Pre Approval:
Project Mgr: TBD	Category: Major		
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Third	party estimate	
	Requirement Validation: Other(specify in Not	es)
5 6 🗹 7 🗌 8	ITS Involved Project: Is ITS Con	aultad?	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	115 Involved Project: Is 115 Con	isuiteu? 🗆	

In late 2013, the City acquired the lands legally described as part of Lot 28, Concession 6, Parcel ID 1067100 (the "Subject Property"), which is located west of McCowan Road, and approximately one (1) km north of the intersection of Elgin Mills Road and McCowan Road (Former Watson Farm Land). The estimated Regional storm event floodline (the "Floodline") within the vicinity of the Subject Property (estimated by the Toronto and Region Conservation Authority ("TRCA") traverses through the middle section of the Subject Property dissecting it almost into two (2) parts. Adjacent two (2) properties to the north of the Subject Property, owned by a owner affiliated with Fieldgate Developments, are also impacted by the Floodline. Development Services Committee meeting, dated May 25, 2020, authorized staff to work in collaboration with the Fieldgate to carry out the technical studies and detailed design of a new, enlarged culvert to replace the existing culvert located on McCowan Road, in order to reduce the amount of flooding within the City and the Fieldgate properties upstream of the culvert. Fieldgate is responsible to retain consultants to complete the technical studies, including detailed design and construction of the project, fulfilling the TRCA, Region of York and other agencies' requirements for both the City and Fieldgate lands. City staff will oversee the work of Fieldgate's consultant and share cost on a percentage basis of the overall benefits. Based on the prelimary estimate of the overall benefits to the City and Fieldgate lands, the City's share is 17.5% of the total project cost. The cost sharing percentages for the project could be changed subject to the completion of the detailed design. Based on a recent discussion with SCS, design will start later this year and finalize early next year. Construction is to begin summer of 2024 and should be completed by the end of 2024 if there are no delays. This was supposed to start this year but got delayed by Fieldgate. Staff plan to return to Council in the fall 2023 to update them with the new timeline.

Cost is based on the Region of York review and comments provided on the estimated cost prepared by Fieldgate's consultant, SCS Consulting Group.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The estimated total cost is \$2,147,880. This will be cost-shared
Cost/Quote:	300,056	0	with Fieldgate based on the cost-sharing agreement and Counci
Internal Charges:	45,008	0	report; City's share is not significant. The Region of York will
External Consulting:	0	0	contribute \$433,275.00. The rest of \$1,714,605 will be shared between the City (17.5%) and Fieldgate (82.5%). So, the City's
Contingency %: 30	90,017	0	share is \$300,056.00. A contingency of \$90k (approx. 30%) is
Sub Total:	435,081	0	required since this is a construction project and the cost may cha
HST Impact:	6,865	0	due to uncontrollable factors. The other internal is Land Acquisition reserve.
Total Project Cost:	441,900	0	The other internal is Land Acquisition reserve.

SOURCE(S) OF FUNDING (\$)

<u>Funding Type</u>	Budget					TOTAL	<u>Future</u> <u>Phases</u>
Other Internal	441,900	0	0	0	0	0	0
TOTAL FUNDING	441,900				=	0	0

Components

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

Attachment 'A' – Location Map



2024 PROJECT FUNDI	NG REQUEST FO	PRM	Number:	24044
Project Name: Mount Joy Creek Realignment Class EA		Proje	ct Cost: Studie	\$365,500 s/Pilot Programs
Commission: Development Services Department: Engineering Project Mgr: Soran Sito	I Category:	Useful Lif Major	e: 0	Pre Approval:
Ward(s): $_{CW}$ \square $_{1}$ \square $_{2}$ \square $_{3}$ \square $_{4}$ $_{5}$ \checkmark $_{6}$ \square $_{7}$ \square $_{8}$ ETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: Requirement Validation: ITS Involved Project: Is I	Other(sp	becify in Not	

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The Mount Joy Secondary Plan, which is near completion, recommends realigning a portion of Mount Joy Creek mainly to alleviate table land flooding to support future land development and improve the natural Greenway system within the area. The City needs to get started with this required Class EA in 2024 to facilitate the realignment construction and the remediation/removal of the table land flooding.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This EA fall under Schedule "B". Typically, a Schedule "B"
Cost/Quote:	0	0	could take up 18 to 24 months. Assuming it starts in early 20
Internal Charges:	29,700	0	subject to budget approval, the Class EA should be complete before the end of 2025.
External Consulting:	300,000	0	
Contingency %: 10	30,000	0	
Sub Total:	359,700	0	
HST Impact:	5,808	0	
Total Project Cost:	365,500	0	

SOURCE(S) OF FUNDING (\$)

Components

Funding Type	Budget					TOTAL	<u>Future</u> <u>Phases</u>
DCA	365,500	0	0	0	0	0	0
TOTAL FUNDING	365,500					0	0

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

DCA/LIFE CYCLE DETAILS

<u>DCA</u>		А	mount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	
Hard - Studies - Trans., Servicing, Enviro., Cycling, Traffic		365,500	18,003,000	Amount in Study.	
Calming, Noise, Subwatershed, Erosion Study Update etc.				Amount Incl HST	
TOTAL FUNDING		365,500	18,003,000	Year in the study	



2024 PROJECT FUNDI	NG REQUEST FORM	Numb	ber:	24045
Project Name: National Active School Streets Initiative	P	roject Cost:		6103,600
Commission: Development Services	Useful			ilot Programs
Project Mgr: Fion Ho	Category: Majo			
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Othe			
5 6 7 8	Requirement Validation: Othe	· · ·		
DETAILED DESCRIPTION (SCOPE OF PROJECT):	115 monteu 110jeet. 18115 C	onsundu: -		

8 80 Cities is working in collaboration with partners from across the country to develop an application to the Public Health Agency of Canada's Healthy Canadian and Communities Fund to accelerate the implementation of School Streets in communities from coast to coast. Markham was invited to participate in the proposal for the National Active School Street Initiative as a Pilot community. School Street aims to create a car-free environment in front of the school at the start and end of the day to prioritize safe, active travel conditions for children. If the City is successful in being selected as a community partner, the City will be provided with up to \$42,500 of funding to enable our participants to establish a National Community of Practice and support two pilot events, with one event per year per location. The project is broken down into 5 phases and will span between 2024 and 2027. Should the City not be selected for funding from this Federal funding program, this project will not proceed unless another third party

Should the City not be selected for funding from this Federal funding program, this project will not proceed unless another third party funding can be secured.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Cost Validation: Based on the previous School Street event with
Cost/Quote:	0	0	four days of road closure at John McCrae Public School. As part of
Internal Charges:	8,415	0	the National Active School Street Initiative, the pilot community will host two School Streets with a target duration of one month per
External Consulting:	85,000	0	event. The total operating cost for these two pilot School Streets is
Contingency %: 10	8,500	0	approx. \$85,000. (50% split between the City (20% DCA/80%
Sub Total:	101,915	0	Non DC Growth) and Public Health Agency of Canada).
HST Impact:	1,646	0	Requirement Validation: This is an expansion of the school streets pilot as part of the Active School Travel Program.
Total Project Cost:	103,600	0	

SOURCE(S) OF FUNDING (\$) **Components** Future Funding Type TOTAL **Phases** Budget DCA 0 0 10.360 0 0 0 0 Non-DC Growth 0 0 0 0 41,440 0 0 Other External 0 0 0 51,800 0 0 0 0 0 TOTAL FUNDING 103,600

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

<u>DCA</u>		A	mount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Studyu	
Hard - Studies - Trans., Servicing, Enviro., Cycling, Traffic		10,360	18,003,000	Amount in Study:	
Calming, Noise, Subwatershed, Erosion Study Update etc.				Amount Incl HST	
TOTAL FUNDING		10,360	18,003,000	Year in the study	

MARKHAM 2024 PROJECT FUND	DING REQUEST FORM Numb	er: 24046
Project Name: New Traffic Signals (Construction)	Project Cost:	<i><i><i>q</i></i> 05 0,200</i>
Commission: Development Services Department: Engineering	Ne Useful Life: 0 Category: Major	w Asset/Expansion Pre Approval:
Project Mgr: <u>Manzora Nero</u> Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \checkmark$ $5 \checkmark 6 \checkmark 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: Other(specify in Requirement Validation: Other(specify in ITS Involved Project: Is ITS Consulted?	Notes)
Construction for new traffic signals at the following two intersec Ridge/Fred McLaren. The intersection work will also include civ Ontarians with Disabilities Act (AODA). Traffic signals are reco operations, and accommodate future growth needs. Detailed desi	vil works to incorporate design elements as per t mmended by staff in order to improve intersect	he Accessibility for ion safety and

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES These intersections meet the Provincial criteria to warrant traffic
Cost/Quote:	0	0	signals. Total costs specified in the DCA Study is identified for
Internal Charges: External Consulting:	72,330 730,609	0 0	each intersection, listed under "Intersection Improvements": Bur Oak/Williamson (Future Signalized Intersections (4) at Greensborough); and Bur Oak @ Country Ridge/Fred McLaren
Contingency %: 10	73,061	0	(Future Signalized Intersections (7) at Wismer).
Sub Total: HST Impact:	876,000	0	Tender to be issued by December 2024, Construction to commence in April 2025 and to be completed by Sept 2025.
Total Project Cost:	890,100	0	
	-,		

SOURCE(S) OF FUNDING	(\$)
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SOURCE(S) OF FUNDING (\$)		Components					
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
DCA	890,100	0	0	0	0	0	0
TOTAL FUNDING	890,100					0	0

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

DCA/LIFE CYCLE DETAILS

DCA		А	mount in	<u>Life Cycle</u>
Name	Year	Amount	Study	Amount in Studyu
Hard - Intersection - Future Signalized Intersections (4)		442,330	1,352,219	Amount in Study:
Hard - Intersection - Future Signalized Intersections (2)		447,770	685,110	Amount Incl HST
TOTAL FUNDING		890,100	2,037,329	Year in the study

2024 New Traffic Signals (Construction)



ARKHAM 2024 PROJECT FUNDING REQUEST FORM

Number: 24047

Derived Name: N. T. C. S. L. (D. '. 9. C.)	· · · · · · · · · ·	Project (Cost:	\$158,400
Project Name: New Traffic Signals (Design & Construc	tion Administration)		New	Asset/Expansion
Commission: Development Services		Useful Life:	0	Pre Approval:
Department: <u>Engineering</u> Project Mgr: Manzora Nero	Category:		Ū	i io rippio (ui)
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation	: Third party	estimat	e
	Requirement Validation:	Other(specif	fy in No	otes)
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is	ITS Consulte	d? 🗆	
Design and construction administration costs for new traffic signate	als at the following three inte	rsections: (1)	Bur Oa	k @ Donald Sim, (2)

Design and construction administration costs for new traffic signals at the following three intersections: (1) Bur Oak @ Donald Sim, (2) Bur Oak @ Emery Hill/Hillwood and (3) Kirkham @ New Delhi. These intersections meet the MTO criteria to warrant traffic signals and are therefore recommended by staff in order improve intersection safety, operations and accommodate future growth needs. The intersection will also include civil works to incorporate design elements as per the Accessibility for Ontarians with Disabilities Act (AODA). Design is to be completed in 2024; budget request for construction to be submitted for 2025.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting: Contingency %: 10 Sub Total: HST Impact: Total Project Cost:	2024 0 12,870 130,000 13,000 155,870 2,517 158,400	Future Phases 900,000 89,100 0 900,000 1,079,100 17,424 1,096,500	each intersection Oak/Emery Hi Berczy); Bur (Pedestrian SIg	cified in the DC on, listed under ll/Hillwood (Fu Oak @ Donald nal); and Kirkha nprovements). P	"Intersection ture Signalize Sim (City-wid am @ New De	Improveme ed Intersecti le Intersecti elhi (City-w	ents": Bur ons (5) at on <i>v</i> ide
SOURCE(S) OF FUNDING	<u> (\$)</u>		Compone	ents			<u>Future</u>
Funding Type	<u>Budget</u>					<u>TOTAL</u>	Phases
DCA	158,400	0	0	0	0	0	1,096,500
TOTAL FUNDING	158,400					0	1,096,500

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

<u>DCA</u> Name	Year	A Amount	mount in Study	<u>Life Cycle</u>	
Hard - Intersection - Future Signalized Intersections (5)	I cui	52,800	1,685,774	Amount in Study:	
Hard - Intersection - City-wide Intersection Pedestrian		52,800	2,300,217	Amount Incl HST	
Signal (Lump Sum) - 10				Year in the study	
Hard - Intersection - City-wide Intersection Improvements		52,800	1,685,774	• _	
TOTAL FUNDING		158,400	5,671,765		
DCA and/or Life Cycle: Explain if there is a change in the	ne year a	nd/or cost:			

2024 New Traffic Signals (Design)



2024 PROJECT FUNDING REQUEST FORM

Number: 24048

Project Name: Dedectrion Crock Over (DVO) Design &	andmustion	Project (Cost:	\$347,200
Project Name: Pedestrian Cross-Over (PXO) Design & C			New .	Asset/Expansion
Commission: Development Services Department: Engineering	Ŭ	seful Life:	0	Pre Approval:
Project Mgr: <u>Manzora Nero</u>	Category:			
Ward(s): $CW \square 1 \square 2 \checkmark 3 \checkmark 4 \square$	Cost Validation:	• 1	•	,
5 6 7 8	Requirement Validation:	• •	•	otes)
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	IS Consulte	d?∟	

The objective of this project is to prepare a detailed design and construct a formal pedestrian crossover (PXO) at Village Parkway north of Wentworth Court. This location meets the Provincial warrant criteria for the implementation of a PXO. Project includes feasibility review of appropriate PXO treatment, photometric review of streetlights, electrical design for streetlights and PXO equipment, pavement marking and signage recommendations, arborist review of impacted trees, necessary civil work required to comply with the AODA, development of project tender specifications and detailed construction cost estimate.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES Project costs include detailed design (\$25k) and associated full
Cost/Quote:	125,000	0	contract administration (\$80k) and site inspection (\$55k), and
Internal Charges:	28,215	0	(\$125k) for construction. Design anticipated to commence in Ap
External Consulting:	160,000	0	2024 and completed by July 2024. The Construction to comment in Sept 2024 and to be completed by Jun 2025.
Contingency %: 10	28,500	0	in sept 2024 and to be completed by Jun 2025.
Sub Total:	341,715	0	
HST Impact:	5,518	0	
Total Project Cost:	347,200	0	

SOURCE(S) OF FUNDING (\$)

RKHAM

SOURCE(S) OF FUNDING	(3)	Components					
Funding Type	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
DCA	225,680	0	0	0	0	0	0
Non-DC Growth	60,760	0	0	0	0	0	0
Other Internal	60,760	0	0	0	0	0	0
TOTAL FUNDING	347,200					0	0

Componenta

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

DCA		A	mount in	Life Cycle	1
Name	Year	Amount	Study	A C C I	
Hard - Special Projects - City-wide Street Safety and Traffic		225,680	3,964,174	Amount in Study:	
Calming, various locations				Amount Incl HST	
TOTAL FUNDING		225,680	3,964,174	Year in the study	

	Number:	24049
Projo		\$1,679,000 Asset/Expansion
Useful Li Category: Annual	fe: 0	Pre Approval:
Requirement Validation: Other(s)	pecify in Not	
	Useful Li Category: Annual Cost Validation: Internal Requirement Validation: Other(s	Useful Life: 0

The installation of new water, sanitary, and storm service connections are required when homeowners apply for residential infill permits, and when upgrades or repairs are requried to the existing service connections in accordance with the City's sewer use by-law. On average the City processes approximately 100 requests for new service connections per year.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES The installation of new water, sanitary, and storm connection
Cost/Quote:	1,500,000	0	required during most new residential infill home constructio
Internal Charges:	0	0	projects since most of these projects are larger than the exist homes. The condition of the existing service connections are
External Consulting:	0	0	assessed during the permit application process and are typica
Contingency %: 10	150,000	0	deemed to be either too small or in need of replacement. The
Sub Total:	1,650,000	0	budgeted amount is fully recoverable form homeowners/build infill developments.
HST Impact:	29,040	0	mini developments.
Total Project Cost:	1,679,000	0	

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING	<u> (\$)</u>		Compon	ents			F 4
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Other External	1,679,000	0	0	0	0	0	0
TOTAL FUNDING	1,679,000					0	0

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

DCA		Amount in	<u>Life Cycle</u>
Name	Year Amount	Study	Amount in Study:
			Amount Incl HST
			Year in the study
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:		
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:		
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:		
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:		
2024 PROJECT FUNDING REQUEST FORM ARKHAM 24051 Number: **Project Cost:** \$335,000 Project Name: Rouge Valley Trails Phase 4B Property Acquisition New Asset/Expansion

Commission: Development Services	Useful Life: 0 Pre Approval:
Department: Engineering Project Mgr: Lily Li	Category: Major
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Other(specify in Notes)
5 G 7 2 8	Requirement Validation: Other(specify in Notes)
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?

Property acquisition and occupation agreements required for the Rouge Valley Trail Phase 4B Project within private and crown lands. This budget request is for the Property Acquisition as well as to initiate the property acquisition work (i.e. ESA, legal agreements, etc.). The proposed budget does not include any expropriation cost. If required, staff will prepare a separate report to Council.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting:	<u>2024</u> 275,000 27,225	Future Phases 3,900,000 416,988 312,000	NOTES Design is at 30% and to be completed by September 2024. Staff initiated the property acquisition discussion with the Landowner Property Acquisition requests typically takes 12-18 months. Information regarding the approximate area/limit of lands that w
External Consulting: Contingency %: 10	0 27,500	312,000 421,200	be required to facilitate the construction of the project have been
Sub Total:	329,725	5,050,188	provided to Real Property. Future Phases is a high level cost estimate for construction which anticipated for mid-2025.
HST Impact:	5,324 335,000	81,544 5,131,700	This is the final phase to be constructed as a part of the Rouge valley trail system.

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING	r (\$)	Components					
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
DCA	335,000	0	0	0	0	0	5,131,700
TOTAL FUNDING	335,000				=	0	5,131,700

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

DCA/LIFE CYCLE DETAILS

	A	mount in	<u>Life Cycle</u>
Year	Amount	Study	Amount in Study:
	335,000	9,419,250	
			Amount Incl HST
	335,000	9,419,250	Year in the study
	Year	Year Amount 335,000	<u>335,000</u> 9,419,250

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



MARKHAM 2024 PROJECT FUND	DING REQUEST FORM Number:	24052
Project Name: Sidewalk Program (Construction)	Project Cost:	\$4,505,500
	New A	Asset/Expansion
Commission: Development Services	Useful Life: 0	Pre Approval:
Department: Engineering		
Project Mgr: Dereje Tafesse	Category: Major	
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Other(specify in No	tes)
	Requirement Validation: Other(specify in Not	tes)
5 6 7 8		,
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box	

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To complete the construction of new sidewalk in various areas within the City to provide pedestrian access and link to the City sidewalk network. The design of these section will be completed by December 2023. The list of locations in attached with this budget form.

Safe & Sustainable Community BUILDING MARKHAM'S FUTURE TOGETHER:

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES Tender to be released in Apr 2024 and construction be completed
Cost/Quote:	3,314,000	0	by December 2025. Community consultation has been completed
Internal Charges:	366,102	0	The estimated construction cost is derived from consultant
External Consulting:	384,000	0	estimates and staff input. Estimated total length of sidewalk 4.8k Utility relocation is part of this request. 65% funded from DCA,
Contingency %: 10	369,800	0	17.5% funded from Non-DC Growth and 17.5% funded from CE
Sub Total:	4,433,902	0	
HST Impact:	71,593	0	
Total Project Cost:	4,505,500	0	

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING	<u> (\$)</u>	Components					<u>Future</u>
Funding Type	Budget					<u>TOTAL</u>	<u>Phases</u>
DCA	2,928,576	0	0	0	0	0	0
Non-DC Growth	788,462	0	0	0	0	0	0
Other Internal	788,462	0	0	0	0	0	0
TOTAL FUNDING	4,505,500				=	0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$37,975	\$0	\$37,975	

DCA/LIFE CYCLE DETAILS

<u>DCA</u>		А	mount in	<u>Life Cycle</u>
Name	Year	Amount	Study	Amount in Study
Hard - Sidewalks - Sidewalk Gapping Program		2,928,576	22,421,418	Amount in Study:
TOTAL FUNDING		2,928,576	22,421,418	Amount Incl HST
				Year in the study

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

List of Sidewalk (Construction) Locations

#	Road Section	Ward	Length (m)
1	Cochrane Dr. (Perth Ave to Cochrane Dr)	8	1650
2	Commerce Valley Dr W (Leslie Ave to Hwy 7)	8	650
3	14th Ave (100m west of Markham Rd to Markham Rd)	7	100
4	Carlton Rd (Warden Ave to Braitewaite Rd)	3	460
5	Heritage Rd (McCowan to Laidlaw)	4	585
6	McIntosh Dr (Woodbine Ave to Apple Creek Dr)	2	440
7	Rivera Dr (Rodick to 14th Ave)	8	900

Number:	24053
ject Cost:	\$76,300
Studie	es/Pilot Programs
ife: 0	Pre Approval:
specify in No specify in No	· ·
sulted?	
her	funding pa

and their employees to reduce the use of private cars in commuting to and from work. Alternative modes include carpooling, transit

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

incentives, cycling, telework, emergency ride home program and more.

PROJECT COSTS (\$)	<u>2024</u>	Future Phases
Cost/Quote:	75,000	0
Internal Charges:	0	0
External Consulting:	0	0
Contingency %: 0	0	0
Sub Total:	75,000	0
HST Impact:	1,320	0
Total Project Cost:	76,300	0

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING (\$)	<u> </u>		Compone	ents			F 4
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
DCA	76,300	0	0	0	0	0	0
TOTAL FUNDING	76,300					0	0

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

DCA/LIFE CYCLE DETAILS

<u>DCA</u>		A	mount in	<u>Life Cycle</u>
Name	Year	Amount	Study	Amount in Study:
Hard - Special Projects - Travel Demand Management		76,300	3,396,182	
TOTAL FUNDING		76,300	3,396,182	Amount Incl HST
				Year in the study

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

Smart Commute Markham, Richmond Hill Regional TDM Programming - City of Markham 2024 Work Plan



Anticipated work plan for 2024 (requested by City of Markham)*

*To be finalized with York Region and City of Markham & Richmond Hill

1. TDM resources plan for community and Smart Commute workplaces:

- Custom workplace commute guide (on-going by request) delivered to SCMRH workplaces featuring commuter related resources including: nearby transit stops, bike infrastructure connecting to the premise, carpool programs, and sustainable commuting amenities and end of facility / services available;
- Telework Webinar Series (on-going by request) aims to deliver resources and information on telework tips and best practices, creating a home office and how to stay active while teleworking;
- SmartCommute.ca Champions How-To Guide a guide targeted towards SCMRH Workplace Champions to assist them with navigating the SmartCommute.ca App. Topics will cover ridematching, Emergency Ride Home module and back-end administrative functions of the app.

2. TDM Programs and other activities:

- Personalized Travel Planning route planning session (in-person or virtual) to provide assistance for commuters/ employees using the SmartCommute.ca App to explore non-SOV commuting options;
- SmartCommute.ca App Demo provide an in-person or virtual demonstration of the App which offers an advanced online platform to help commuters explore alternative commute options, trip planning, ride-matching, take part in commuter contests and track their sustainable impact;
- Cycling 101 Webinar Series encourages cycling in the community, participation in Bike to Work Day, and promotion of the Bike Month Challenge;
- Carpool Speed Mingling facilitates ride matching (in-person or virtual) among participants using the SmartCommute.ca App to explore potential ride sharing;
- Transit webinar highlights transit safety, new transit routes, new transit infrastructure in York Region and multi-modal options;
- "Beyond Steps" Summer/Fall Step Challenge a custom workplace / community step challenge which provides support including: online step challenges, custom maps to explore and learn about local walking trails and aims to encourage active transportation in the community;
- Comprehensive Workplace Travel Survey determines effective strategies to develop custom TDM programs for SCMRH workplaces (included in the enhanced services). The survey helps to understand where workplace employees are traveling from, how willing they are to try alternative modes of travel and the kinds of support and incentives they may need to change their travel behaviour;

3. Annual events/campaigns:

- Spring into Cycling (May) cycling photo contest aimed towards workplace employees and the Markham and Richmond Hill communities. Participants are encouraged to ride their bike to work, recreation or errands for a chance to win prizes;
- Bike to Work Day (early June TBD) in-person cycling group ride partnered with local workplaces to kickstart Bike Month in June. This event is workplace focused and aims to promote cycling to and from work, exploring local municipalities, bike infrastructure and mobility hubs. The campaign will be under review to be greenlit based on SCMRH sponsors and partners;
- Bike Day (early June TBD) a collaboration with York Region, York Region TMAs and local municipalities to run a contest to encourage biking in the community to kick off Bike Month. Tabling at local municipalities / Region offices to provide support (cycling maps, bike-related swag) to employees who like to learn more about local cycling infrastructure;
- SmartTrips Summer Challenge (Aug) a multi-modal photo contest for employees and residents of Markham and Richmond Hill to partake in. Participants are encouraged to try various modes of sustainable transportation within Markham or Richmond Hill for a chance to win prizes;
- Walktober (Oct) a walking challenge utilizing the SmartCommute.ca App to track walking trips made throughout the month of October. Workplace employees and the Markham and Richmond Hill communities will be invited to take part and challenge themselves to walk to their destinations for work, recreation or errands;
- Regional Smart Commute campaigns: Winter Commute Month (Feb), Bike to Work Day (May), Bike Month (June Cycle TO), Smart Commute Month (Sept);

4. Community / School based TDM:

- Active School Travel collaborate with the City of Markham, City of Richmond Hill, YRDSB, YRCDSB, YRPH and Regional SC TMAs to promote and deliver programming for Active School Travel pilots;
- Work with CPAC (COM) / CEEP (RH) to promote cycling in the community;
- On-going partnerships with municipalities, land developers and property management corporations to deliver TDM services for new / existing developments and relocation projects for implementing TDM measures to mitigate and reduce SOV and parking demand.

5. TDM Recruitment:

- Collaboration with York Region and other TMAs to plan a Smart Commute roadshow to promote Smart Commute TDM programs and services to prospective workplaces and to re-engage previous Smart Commute workplaces. The roadshow will deliver York Region Smart Commute brochures, schedule tabling events, sustainable travel resource distribution and working with local partners (e.g. bike shop, York Region Transit, etc.) for outreaches at workplaces and the wider community, Smart Commute.ca App demos, transit promotion and bike safety checks;
- Continue providing TDM consultation to land developers/property management companies to fulfill municipalities' TDM requirements for development applications.

6. SmartCommute.ca App

The SmartCommute.ca App (<u>www.smartcommute.ca</u>) is an online platform and mobile app that allows users to:

- Find a carpool match
- Plan and track your carpool, transit, walking and cycling trips
- Join a network of GTHA commuters through your workplace or organization
- Take advantage of program benefits including workplace travel support

SCMRH estimates the following for 2024:

- 60 80 new members to register*
- 300 400 sustainable trip logs*

*Estimates are based on 2023 data collected from the SmartCommute.ca App.

7. Carpool Parking Pass Program (CPPP)

The CPPP provides a platform for Smart Commute workplaces to monitor carpool usage, collect data and track impact of carpooling. The program helps workplaces mitigate parking issues and assists employees with exploring workplace travel alternatives.

This program is often requested by new developments seeking to fulfill the City's TDM requirements to implement carpool parking for their clients.

Due to COVID-19, the CPPP has slowly been re-introduced to existing workplaces starting 2023 as employees are returning to the office.

SCMRH estimates the following for 2024:

- 8 16 new users or renewals*
- 4 8 newly formed or renewed carpool groups*

*Estimates are based on 2023 CPPP data with consideration for COVID-19.

8. Communications Planned for 2024

Mode of Communication	Frequency/number of postings
E-newsletter – direct workplace employees and community	Quarterly (Winter, Spring, Summer and Fall) to 1,836 SCMRH subscribers
Facebook, Twitter, Instagram and YouTube posts	3 - 4 posts per week 2 videos per year
Commuter-related blog posts	20 - 30 posts per year
Website updates (campaigns, webinars, blogs, etc.)	On-going updates per year
Advisory committee meetings or updates (provides feedback and guidance on TDM programming)	Quarterly

Number: 24054

Project Name: Sauth Haisarrille Ares Devenuert Marking	e Ciana ao	Project C	Cost:	\$243,700
Project Name: South Unionville Ave Pavement Marking	g & Signage		Repair	r/Replace
Commission: Development Services	Us	seful Life:	0	Pre Approval: 🗌
Department: Engineering Project Mgr: Justin Chin	Category: 1	Minor		
Ward(s): $CW \square 1 \square 2 \square 3 \checkmark 4 \square$	Cost Validation:	Third party	è	
5 6 7 8	Requirement Validation:	Visual inspe	ction	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is IT	S Consulted	1? 🗆	
Project scope includes the implementation of improved pavemen configuration of pavement markings, including the on-road bicyc user safety. This project will implement the finalized pavement r improved bike lane alignment and separation (painted) from the a accomodate.	le lanes and parking lay-bys, is narking and signage plan that v	sub-standar vas develope	d and p ed in 20	resents a risk to road 23, including
BUILDING MARKHAM'S FUTURE TOGETHER: Safe &	& Sustainable Community			

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Revised pavement marking and signage plan to be completed
Cost/Quote:	200,000	0	summer 2023. Project cost validated by referencing recent ter
Internal Charges:	19,800	0	of a similar scope. Funding is 20% DC and 80% Non DC Gr
External Consulting:	0	0	
Contingency %: 10	20,000	0	
Sub Total:	239,800	0	
HST Impact:	3,872	0	
Total Project Cost:	243,700	0	

SOURCE(S) OF FUNDING	<u>f (\$)</u>	Components					
Funding Type	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
DCA	48,740	0	0	0	0	0	0
Non-DC Growth	194,960	0	0	0	0	0	0
TOTAL FUNDING	243,700				=	0	0

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

DCA/LIFE CYCLE DETAILS

MARKHAM

<u>DCA</u>		A	mount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	
Hard - Studies - Trans., Servicing, Enviro., Cycling, Traffic		48,740	18,003,000	Amount in Study.	
Calming, Noise, Subwatershed, Erosion Study Update etc.				Amount Incl HST	
TOTAL FUNDING		48,740	18,003,000	Year in the study	

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

South Unionville Ave Pavement Marking & Signage Improvements



(MARKHAM	2024 PROJ	ECT FUND	ING RE	QUEST FO	RM Number:	24	1055
Droject Name: Charactle-1		_			Project Cost:	\$75 ,	,100
Project Name: Streetligh	iting Peer Review	V			Studie	s/Pilot F	Programs
Commission: Developme	ent Services			1	Useful Life: 0		proval:
Department: Engineering				Category:		пслр	provai. —
Project Mgr: David Huy	nh			. .			
Ward(s): CW \checkmark 1	2 3 4				Other(specify in Not		
5	6 7 8				Other(specify in Not	es)	
DETAILED DESCRIPTIO	ON (SCOPE OF P	ROJECT):	ITS Invo	olved Project: Is	ITS Consulted?		
Peer review of the streetligh submission, when designing Markham streetlighting design on the direction to take, on e BUILDING MARKHAM'	or retrofitting mod gn standard. Peer re each street lighting s	el shows sign of de eview provides Sul submission case-by	eficiency (m bject-Matter	inor incompliand -Expert (SME) r	ce) that it does not me	et the Ci	ity of
DOILDING WARKITAM	STUTURE TOO	STIER. Suie d	e Sustainable	Community			
PROJECT COSTS (\$)	2024	Future Phases	NOTES				
Cost/Quote:	0	0			of streetlighting designations, or package in re-		
Internal Charges:	0	0	acceptan	ce/assumption, i	is in reliance upon the	profess	ional skill
External Consulting:	67,086	0			nt's Engineer. When p		
Contingency %: 10	6,709	0			ompliance in design of 0% recoverable from		
Sub Total:	73,795	0	payment	for engineering	reviewing fee. Note: S		
HST Impact:	1,299	0	2023 cap	oital in-year add	itions.		
Total Project Cost:	75,100	0					
SOURCE(S) OF FUNDING	<u> (\$)</u>		Co	mponents			F 4
<u>Funding Type</u>	<u>Budget</u>				<u>T(</u>)TAL	<u>Future</u> <u>Phases</u>
Other External	75,100	0	0	0	0	0	0
TOTAL FUNDING	75,100					0	0
	NDACT Per	sonnel Non P	ersonnel	Revenues	Expenditures/(Revo	enues)	
ODEDATING BUDGET U			\$0	\$0	\$0		
OPERATING BUDGET I	<u>MPACI</u>	\$0	φυ		ψυ		
		\$0	φ υ		ΨΟ		
		\$0					
DCA/LIFE CYCLE DETA			ear Amou	Amount in	Life Cycle		
DCA/LIFE CYCLE DETA			·	Amount in	Life Cycle — Amount in Stu		
DCA/LIFE CYCLE DETA			·	Amount in	Life Cycle — Amount in Stue Amount Incl H	ST	
DCA/LIFE CYCLE DETA			·	Amount in	Life Cycle — Amount in Stu	ST	
DCA/LIFE CYCLE DETA	<u>ILS</u>	Ye	ear Amou	Amount in int Study	Life Cycle — Amount in Stue Amount Incl H	ST	
DCA/LIFE CYCLE DETA DCA Name	<u>ILS</u>	Ye	ear Amou	Amount in int Study	Life Cycle — Amount in Stue Amount Incl H	ST	
DCA/LIFE CYCLE DETA DCA Name	<u>ILS</u>	Ye	ear Amou	Amount in int Study	Life Cycle — Amount in Stue Amount Incl H	ST	
DCA/LIFE CYCLE DETA DCA Name	<u>ILS</u>	Ye	ear Amou	Amount in int Study	Life Cycle — Amount in Stue Amount Incl H	ST	

Number: 24056

		Project Cost:		\$94,700	
Project Name: SWM Guidelines Update			Studie	es/Pilot Programs	
Commission: Development Services Department: Engineering	τ	Jseful Life:	0	Pre Approval:	
Project Mgr: Abdullah Hossain	Category:				
Ward(s): CW \checkmark 1 2 3 4	Cost Validation:	· · · ·			
5 6 7 8	Requirement Validation:	on: Other(specify in Notes)			
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box				
The City's SWM Guidelines is outdated and almost 7 years old (2	2016). Many important change	es in SWM h	as occur	red since the last	

The City's SWM Guidelines is outdated and almost 7 years old (2016). Many important changes in SWM has occurred since the last update including underground SWM facilities, CLI ECA by MECP, LIDs, hydrology and hydraulic modeling requirements by the TRCA, Bill 23, etc. This update is important to guide future developments in Markham with updated criteria and guidelines. This Update and current SWM guidelines supports all of the development and growth in Markham. This update is required because of the following two important items:

1- Engineering standards and criteria for underground SWM facilities which is becoming more needed for new development and support growth,

2- The Consolidated Environmental Compliance (CLI ECA) by MECP is revamping the whole process for submission of environmental applications including SWM facility design and monitoring requirements and standards and this need to be incorporated in the updated SWM guideline.

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PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES The plan is to start this update as early as possible in 2024, subjec
Cost/Quote:	0	0	to budget approval by early 2024. The project will need 2 years to
Internal Charges:	7,697	0	complete, so it should be finalized by the end of 2025, assuming n
External Consulting:	77,750	0	delays or issues.
Contingency %: 10	7,775	0	
Sub Total:	93,222	0	
HST Impact:	1,505	0	
Total Project Cost:	94,700	0	

SOURCE(S) OF FUNDING (<u>\$)</u>		(
<u>Funding Type</u>	<u>B</u> 1	udget				<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
DCA	94	,700	0	0	0 0	0	0
TOTAL FUNDING	94	,700				0	0
OPERATING BUDGET IMP	РАСТ	Personnel	Non Personnel	Revenues	Expenditures	s/(Revenues)	
		\$0	\$0	\$0	\$0)	

DCA/LIFE CYCLE DETAILS

ARKHAM

<u>DCA</u>		А	mount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Studen	
Hard - Studies - Trans., Servicing, Enviro., Cycling, Traffic		94,700	18,003,000	Amount in Study:	
Calming, Noise, Subwatershed, Erosion Study Update etc.				Amount Incl HST	
TOTAL FUNDING		94,700	18,003,000	Year in the study	

MARKHAM	2024 PROJ	ECT FUND	ING RE	QUEST FC	DRM Nu	mber:	24057
Project Name: Traffic As	ssats P anlacomo	nt			Project Co	ost:	\$426,500
	-	III				Repair/R	eplace
Commission: Development					Useful Life:	5 P	re Approval: 🗌
Department: Engineering				Category:			11
Project Mgr: <u>Alina Zhang</u>	-			Cost Validation		review	
Ward(s): CW \checkmark 1			Require	ment Validation:	· · · · ·		
	6 7 8			olved Project: Is			
DETAILED DESCRIPTIO Replacement of existing Traf				-			Ducies
includes replacement of varior respective assets to be replac construction season. Based on 2023 life cycle upd	ous traffic signal second s	vstem components oject to be tendere of assets vary betw	and speed r d summer 2 veen 5- 30 y	nonitoring equip 024, with project ears) and condition	ment. List of a to be complete	affected lo ed by end	cations and
BUILDING MARKHAM'S	S FUTURE TOG	ETHER: Safe &	& Sustainable	Community			
PROJECT COSTS (\$)	2024	Future Phases	NOTES				
Cost/Quote:	381,000	<u>1 uture 1 nases</u> 0		cludes: audible p			nd CCU's at 8 at 2 intersections
Internal Charges:	0	0					D replacements a
External Consulting:	0	0		ctions (\$20.2k);			
Contingency %: 10	38,100	0		controller at 1 i			rsections (\$50.4k) lar pole
Sub Total:	419,100	0	assembli	es at 2 intersecti	ons (\$33.6k); s	peed rada	r boards (\$52.5k)
HST Impact:	7,376	0		eads at 2 intersec wraps for traffic			
Total Project Cost:	426,500	0		ed by Operations			Tunded and
SOURCE(S) OF FUNDING	<u>; (\$)</u>		Co	mponents			— Future
<u>Funding Type</u>	<u>Budget</u>					<u>TOT</u>	
Operating Funded Life Cycle	426,500	0	0	0	0		0 0
TOTAL FUNDING	426,500						0 0
OPERATING BUDGET IN	ИРАСТ Рег	rsonnel Non P	ersonnel	Revenues	Expenditure	es/(Reven	ues)
	<u>mner</u>	\$0	\$0	\$0	\$	50	
DCA/LIFE CYCLE DETAI	<u>ILS</u>						
DCA				Amount in	<u>Life C</u>	<u>ycle</u>	
Name		Ye	ear Amou	int Study	Amoun	t in Study	: 546,200
						t Incl HST	
						n the study	
	F 1 · · · · · · ·		1/				
DCA and/or Life Cycle:	Explain if there is	a change in the ye	ear and/or co	ost:			1

Asset to Replace	Intersection
	Birchmount Rd. & Denison St.
	Bur Oak Ave. & Mingay Ave.
	Main St. Markham - approx. 60m north of Wilson St.(Mid-block ped. signal)
	Main St.Markham & Centre St.
APS CCU	Main St.Markham & Robinson St.
	Rodick Rd. & 14th Ave.
	South Town Centre Blvd & Cedarland Drive
	South Town Centre Blvd & Clegg Road
	Birchmount Rd. & Denison St.
	Bur Oak Ave. & Mingay Ave.
	Main St. Markham - approx. 60m north of Wilson St.(Mid-block ped. signal)
	Main St. Markham & Centre St.
APS Station	Main St.Markham & Robinson St.
	Rodick Rd. & 14th Ave.
	South Town Centre Blvd & Cedarland Drive
	South Town Centre Blvd & Clegg Road
Controller	Denison St. & Middlefield Rd
	Denison St. & Townley Ave.
	Apple Creek Blvd. & Hollingham Rd./Town Centre Blvd.
	Apple Creek Blvd. & John Button Blvd.
	Bur Oak Ave. & Mingay Ave.
	Denison St. & Middlefield Rd
	Denison St. & Old Kennedy Rd./Fresno Crt.
Detector Card	Denison St. & Victoria Park Ave.
	John St. & Steelcase Rd.
	Main St.Markham & Centre St.
	Main St.Markham & Princess St./James Scott Rd.
	Rodick Rd. & 14th Ave.
	South Town Centre Blvd & Cedarland Drive
	South Town Centre Blvd & Clegg Road
Flasher Controller	Esna Park Dr. & IBM - PXO
	Birchmount Rd. & Aviva Way
	Church St. & Country Glen Rd.
LED Indications	Main St Markham & Bullock Dr
	Rodick Rd. & Miller Ave.
Pole Assembly - Pedestrian	Denison St.& Coxworth Ave.
•	Denison St. & Clayton Dr.
	Denison St.& Coxworth Ave.
Pole Assembly - Vehicle	Main St & Ramona Blvd
	Main St Markham & Bullock Dr
	Apple Creek Blvd. & Hollingham Rd./Town Centre Blvd.
	Apple Creek Blvd. & John Button Blvd.
	Bullock Dr. & Snider Dr.
	Bur Oak Ave. & Mingay Ave.
	Denison St. & Middlefield Rd
	Denison St. & Old Kennedy Rd./Fresno Crt.
Pre-emption Detector	
	Denison St. & Victoria Park Ave.
	John St. & Steelcase Rd.
	Main St. Markham & Princess St./James Scott Rd.
	Rodick Rd. & 14th Ave.
	South Town Centre Blvd & Cedarland Drive
	South Town Centre Blvd & Clegg Road
Signal Heads	Birchmount Rd.& McNabb St./Micro Ct.
	Denison St. & Gorvette Rd./Milliken Meadows Dr.
Speed Radar Boards & Solar Panels	7 sets (locations vary)

2024 PROJECT FUND	DING REQUEST FORM	umber:	24058
Project Name: Traffic Operational Improvements	Project	-	\$57,000
		New A	sset/Expansion
Commission: Development Services	Useful Life:	0	Pre Approval:
Department: Engineering			
Project Mgr: David Porretta	Category: Annual		
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Internal per	er review	
	Requirement Validation: Other(speci	ify in Note	es)
5 6 7 8			,
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulte	ed?∟	

125

This project accommodates initiatives and requests that arise throughout the year from staff, residents or Council to improve traffic operations and safety for all users of the City's transportation network. Improvements include sign and traffic control devices, pavement markings for roadways and cycling facilities, and minor concrete and asphalt civil works to address and/or enhance pedestrian and cyclist safety. These requirements are required as a result of growth within the community.

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PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES Budget request includes traffic control signs/devices/equipment
Cost/Quote:	50,904	0	(\$20k); road/cycling pavement markings (\$15k), minor
Internal Charges:	0	0	concrete/asphalt civil works (\$15k). Funding for this project will b
External Consulting:	0	0	funded from 65% DCA, 17.5% Non-DC Growth and 17.5% CBC.
Contingency %: 10	5,090	0	
Sub Total:	55,994	0	
HST Impact:	985	0	
Total Project Cost:	57,000	0	
SOURCE(S) OF FUNDING		0	Components

SOURCE(S) OF FUNDING (\$)

			Compone	Components				
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>	
DCA	37,050	0	0	0	0	0	0	
Non-DC Growth	9,975	0	0	0	0	0	0	
Other Internal	9,975	0	0	0	0	0	0	
TOTAL FUNDING	57,000				=	0	0	

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

DCA/LIFE CYCLE DETAILS

DCA		A	mount in	<u>Life Cycle</u>	1:
Name	Year	Amount	Study	A manual in Starlan	
Hard - Special Projects - City-wide Street Safety and Traffic		37,050	3,964,174	Amount in Study:	
Calming, various locations				Amount Incl HST	
TOTAL FUNDING		37,050	3,964,174	Year in the study	

2024 PROJECT FUND	DING REQUEST FORM	umber: 24059
Project Name: Yorktech extension (Rodick Rd. to Ward	Project C Jen Ave) EA	Cost: \$393,500
		New Asset/Expansion
Commission: Development Services	Useful Life:	0 Pre Approval:
Department: Engineering		
Project Mgr: Nehal Azmy	Category: Major	
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Other(specif	fy in Notes)
	Requirement Validation: Other(specify	y in Notes)
5 6 🗹 7 8		
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted	1? 🗀

The work to complete the Yorktech Rd Extension EA study, in order to proceed to Detail Design. The Yorktech extension is vital to the overall transportation network required to accommodate the anticipated growth in Markham Centre. The EA will also include the feasibility review of the alignment of the Markham Centre Trail within the Rouge River, between Rodick Road and Warden Avenue.

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PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The Yorktech Extension EA Study was put on hold until the
Cost/Quote:	0	0	completion of the Markham Centre Secondary Plan to confirm t
Internal Charges:	31,977	0	needs and justification of the road extension.
External Consulting:	323,000	0	The EA work to commence in July 2024 and to be filed by end
Contingency %: 10	32,300	0	March 2025
Sub Total:	387,277	0	
HST Impact:	6,253	0	
Total Project Cost:	393,500	0	

SOURCE(S) OF FUNDING (\$) Components <u>Future</u> Funding Type **TOTAL Phases Budget** DCA 393,500 0 0 0 0 0 0 **TOTAL FUNDING** 393,500

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

DCA/LIFE CYCLE DETAILS

<u>DCA</u>		A	mount in	<u>Life Cycle</u>
Name	Year	Amount	Study	Amount in Study:
Hard - Roads - Yorktech Extension	2023	393,500	8,712,103	Allount III Study.
TOTAL FUNDING		393,500	8,712,103	Amount Incl HST
				Year in the study

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



Fire & Emergency Services

Number: 24060

		Project (Cost:	\$32,300
Project Name: Fire Hose Replacement			D	
			Repa	ir/Replace
Commission: CAO, Legal, HR & Fire	T	Jseful Life:	7	Pre Approval:
Department: Fire & Emergency Services	0	serui Lite.	/	пе Аррюча. —
Project Mgr: Chris Nearing/Matt Keay	Category:	Annual		
Floject Mgl. Chills Nearnig/Mail Keay		701 1		
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation:	Third party	estimat	e
	Requirement Validation:	Condition a	ssessme	nt
5 6 7 8	requirement vandation.	Condition d	35055110	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I'	TS Consulte	₫? □	
Annual replacement and purchase of firefighting hose to ensure s current service levels. Regular replacement of hose inventory is i	•			l in maintaining

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>
Cost/Quote:	31,700	0
Internal Charges:	0	0
External Consulting:	0	0
Contingency %: 0	0	0
Sub Total:	31,700	0
HST Impact:	558	0
Total Project Cost:	32,300	0

SOURCE(S) OF FUNDING (\$)

MARKHAM

Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	32,300	0	0	0	0	0	0
TOTAL FUNDING	32,300					0	0

Components

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

DCA/LIFE CYCLE DETAILS

DCA		Amount in	<u>Life Cycle</u>		
Name	Year Amount	Study	Amount in Study:	64,500	
			Amount Incl HST	64,500	
			Year in the study	2024	
DCA and/or Life Cycle: Explain if there is	a change in the year and/or cost:				
32,200 has been removed and accelerated eplacements in Q1 2024	as part of the 2023 in-year capita	l additions to e	nsure sufficient funding fo	r	

2024 PROJECT FUND	ING REQUEST FO	RM Number:	24061
Project Name: Firefighting Tools & Equipment Replace	ement	Project Cost:	\$79,100
Commission: CAO, Legal, HR & Fire		Repai	ir/Replace
Department: Fire & Emergency Services	U Category:	seful Life: 1 Annual	Pre Approval:
Project Mgr:Chris Nearing/Matt KeayWard(s): $CW \checkmark 1 \Box 2 \Box 3 \Box 4 \Box$	-	Other(specify in No	,
$5 \square 6 \square 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	Requirement Validation: ITS Involved Project: Is IT		nes)
Annual replacement and purchase of firefighting tools & equipme nozzles, hand tools, water rescue equipment, ropes, fire extinguish masks & breathing valves, portable pumps, electric & gas operate & related equipment, laser temperature probes, travel restraint and	ners, hydraulic rescue tools, o d saws, cribbing, portable rad	xygen equipment, ai	ir cylinders, SCBA
BUILDING MARKHAM'S FUTURE TOGETHER: Safe &	sustainable Community		

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Purchases occur due to condition assessment/legislative
Cost/Quote:	77,732	0	requirements/circumstances. Because of the nature of the
Internal Charges: External Consulting:	0	0 0	department activities, equipment may require purchase/replacement due to damage and condition, beyond economical repair or
Contingency %: 0	0	0	technological change. Amount is consistent with the Life Cycle Reserve Study update. This project funding meets the current
Sub Total:	77,732	0	needs of the Fire Department and keeps all tools and equipment in a
HST Impact:	1,368	0	good state of operational order.
Total Project Cost:	79,100	0	

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING	(\$)		Compone	ents			E (
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	79,100	0	0	0	0	0	0
TOTAL FUNDING	79,100					0	0

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

DCA/LIFE CYCLE DETAILS

DCA		Amount in	<u>Life Cycle</u>	
Name	Year Amount	Study	Amount in Study:	105,500
			Amount Incl HST	105,500
			Year in the study	2024
DCA and/or Life Cycle: Explain if there is a ch	ange in the year and/or cost:			
\$26,400 has been removed and accelerated as pa	art of the 2023 in-year capita	l additions to en	sure sufficient funding i	n Q1 2024

MARKHAM 2024 PROJECT FUNI	DING REQUEST FO	NI NI	umber:	24062
Project Name: Hazardous Materials Replacement		Project (Cost:	\$11,400
_			Repai	r/Replace
Commission: <u>CAO</u> , Legal, HR & Fire Department: <u>Fire & Emergency Services</u>	ι	Jseful Life:	5	Pre Approval:
Project Mgr: Chris Nearing/Matt Keay	Category:	Minor		
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation:	Third party	estimate	,
	Requirement Validation:	Other(speci	fy in No	tes)
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulte	d? 🗆	

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting: Contingency %: 0 Sub Total: HST Impact: Total Project Cost:	2024 11,200 0 0 0 11,200 197 11,400	Future Phases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	detector @ detectors)	t is based on a r unit price of \$7 @ unit price of \$ unit price of \$1	,136, 3 HCN (1 \$1,066 and 1 an	hydrogen cya monia single	nide e gas
= SOURCE(S) OF FUNDING	<u> </u>		Com	oonents			Future
Funding Type	Budget	Ion Detector	HCN Detector	<u>Ammonia Single Ga</u>		<u>TOTAL</u>	<u>Phases</u>
Operating Funded Life Cycle	11,400	7,136	3,198	1,066	0	11,400	0
TOTAL FUNDING	11,400				=	11,400	0
OPERATING BUDGET IN DCA/LIFE CYCLE DETA	MPACT		ersonnel I \$0	Revenues \$0	Expenditures /(\$0	Revenues)	
<u>DCA</u> Name		Ye	ear Amount	Amount in Study	Life Cyc Amount in Amount In	Study:	11,400
					Year in th		2024

2024 PROJECT FUNDING REQUEST FORM ARKHAM Number: 24063 **Project Cost:** \$87,100 Project Name: Radio Repeaters and Bone Mic Headsets Replacement Repair/Replace Commission: CAO, Legal, HR & Fire Pre Approval: 5 Useful Life: Department: Fire & Emergency Services Category: Minor Project Mgr: Chris Nearing/Matt Keay Cost Validation: Third party estimate Ward(s): CW ✓ 1 2 3 4 Requirement Validation: Other(specify in Notes) 5 6 7 8 ITS Involved Project: Is ITS Consulted? **DETAILED DESCRIPTION (SCOPE OF PROJECT):**

Replacement of 2 portable radio repeaters (to boost radio transmission signals inside structures) and and 3 bone mic headsets used for firefighter radio communications during emergency incidents.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES With the development of more high rise buildings, radio
Cost/Quote:	85,600	0	communications can be diminished (caused by building
Internal Charges:	0	0	construction and materials blocking radio transmissions). In o
External Consulting:	0	0	to maintain communications with crews inside, portable radio repeaters are required to boost transmission signals. Project co
Contingency %: 0	0	0	based on a recent quote of 2 units x $42,294.50/unit = $
Sub Total:	85,600	0	the radio repeaters and 3 units x $837/unit = 2,511$ for the bo
HST Impact:	1,507	0	mic headsets.
Total Project Cost:	87,100	0	

SOURCE(S) OF FUNDING (\$)			Compon	ents			E4
Funding Type	<u>Budget</u>	Radio Repeaters	Bone Mic Headsets			TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	87,100	84,589	2,511	0	0	87,100	0
TOTAL FUNDING	87,100				=	87,100	0

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

DCA/LIFE CYCLE DETAILS

Amount in Study: 87,10	<u>DCA</u>	Amount in	Life Cycle
Amount Incl HST87,10Year in the study20	Name	Year Amount Study	Amount in Study: 87,100
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:			X : (1) 1 202
Jerr und of Ene Cycle. Explain if there is a change in the year and/of cost.			Year in the study 2024
	DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024
	DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024

Number: 24064

		Project C	ost:	\$115,700
Project Name: Replacement of Equipment due to Staff Retiren	nents		Repair	r/Replace
Commission: CAO, Legal, HR & Fire	Usef	ful Life:	1	Pre Approval: 🗹
Department: <u>Fire & Emergency Services</u> Project Mgr: Chris Nearing/Matt Keay	Category: Ar	nnual		
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Th			
$5 \square 6 \square 7 \square 8 \square$	uirement Validation: Le	•	_	nce
DETAILED DESCRIPTION (SCOPE OF PROJECT):	Involved Project: Is ITS	Consulted	?∟	
Purchase of personal protective clothing, uniforms and equipment for eac	h recruit following the re	etirement c	f a fire	fighter. Legislation:

Purchase of personal protective clothing, uniforms and equipment for each recruit following the retirement of a firefighter. Legislation: OH&S 25.(2)(h) An employer shall take every precaution reasonable in the circumstances for the protection of a worker. Section 21 Guidance Notes, Section 4 in its entirety outlines standards for personal protective equipment and practices to protect firefighters. NFPA 1971 Standard on Protective Ensembles for Structural Firefighting, establishes minimal levels of protection from thermal, physical, environmental and blood-borne pathogens.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting: Contingency %: 0 Sub Total: HST Impact:	2024 113,684 0 0 0 113,684 2,001 115,700	Future Phases 0 0 0 0 0 0 0 0 0 0 0 0 0	equipment (m 2023 contract quotes. Forec Forecasted pr \$14,864 and p	cost of personal p ninus bunker gear pricing) is \$7,78 asted recruits for omotion of Capta promotion of Batt ne retiree equipm	which has 3 per firefi 2024 = 12 ains for 202 talion Chie	been accelera ighter based o @ \$7,783 = \$ 24 = 4 @ \$3,7 ofs for 2024 =	n 2023 \$93,400. 16 = 1 @ \$7,436
Total Project Cost: = SOURCE(S) OF FUNDING	<u>115,700</u> <u>G_(\$)</u>		Compor	nents			
Funding Type	Budget	New Recrutis	Captains and BC			TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	115,700	93,400	22,300	0	0	115,700	0
TOTAL FUNDING	115,700				=	115,700	0

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

DCA/LIFE CYCLE DETAILS

ARKHAM

DCA			Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	136,900
				Amount Incl HST	136,900
				Year in the study	2024

	Project Cost: \$10,200
Project Name: Rescue Equipment Replacement	Repair/Replace
Commission: CAO, Legal, HR & Fire Department: Fire & Emergency Services Project Mgr: Chris Nearing/Matt Keay	Useful Life: 5 Pre Approva Category: Minor
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$	Cost Validation: Third party estimate Requirement Validation: Other(specify in Notes) ITS Involved Project: Is ITS Consulted? Image: Consulted Project: Co
ETAILED DESCRIPTION (SCOPE OF PROJECT): eplacement of 2 ice commander suits, 1 arizona vortex tripod	ITS Involved Project: Is ITS Consulted?

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES Project cost is based on unit price of \$1,195 x 2 units = \$2
Cost/Quote:	10,050	0	the ice commander suits, $$7,810 \times 1 \text{ unit} = $7,810$ for the
Internal Charges:	0	0	vortex tripod. The amounts and units are consistent with the Life Cycle Reserve Study. Useful life for equipment: ice
External Consulting:	0	0	commander suit = 5 years, arizona vortex tripod = 5 years.
Contingency %: 0	0	0	commander suit – 5 years, arizona vortex urpou – 5 years.
Sub Total:	10,050	0	
HST Impact:	177	0	
Total Project Cost:	10,200	0	

SOURCE(S) OF FUNDING (\$)			Compon	ients			E (
Funding Type	<u>Budget</u>	ice commander suits	arizona vortex tripod			TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	10,200	2,390	7,810	0	0	10,200	
TOTAL FUNDING	10,200				=	10,200	

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

DCA/LIFE CYCLE DETAILS

DCA			Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	46,400
				Amount Incl HST	46,400
				Year in the study	2024
DCA and/or Life Cycle: Explain if there is a c	hange in the year a	nd/or cost:			

\$36,200 has been removed and accelerated as part of the 2023 in-year capital additions (\$12,067 x 3 Thermal Image Cameras = \$36,200, replaced every 10 years)

MARKHAM 2024 PROJECT FUNL	DING REQUEST FORM Number:	24066
Project Name: Technical Rescue Program - Trench	Project Cost:	\$152,600
Commission: CAO, Legal, HR & Fire Department: Fire & Emergency Services Project Mgr: Chris Nearing/Matt Keay	Useful Life: 5 Category: Minor	Asset/Expansion Pre Approval:
Ward(s): $_{CW} \checkmark 1 \square 2 \square 3 \square 4 \square$ $_{5} \square 6 \square 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: Third party estimate Requirement Validation: Legislative complia ITS Involved Project: Is ITS Consulted?	

MFES currently has a squad team trained and equipped in a variety of technical rescue specialties. Whereas in 2023, the squad team was trained in crane rescue, this phase is for trench training, in order to safely and effectively respond to emergencies involving trench collapse (including equipping firefighters with the necessary struts and shoring to stabilize a trench collapse).

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases
Cost/Quote:	150,000	0
Internal Charges:	0	0
External Consulting:	0	0
Contingency %: 0	0	0
Sub Total:	150,000	0
HST Impact:	2,640	0
Total Project Cost:	152,600	0

SOURCE(S) OF FUNDING (\$)			Compon	ents			E
Funding Type	<u>Budget</u>	Training	Equipment			TOTAL	<u>Future</u> <u>Phases</u>
Tax	152,600	22,400	130,200	0	0	152,600	0
TOTAL FUNDING	152,600				-	152,600	0

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

DCA/LIFE CYCLE DETAILS

DCA	Amou	nt in <u>Life Cycle</u>	
Name	Year Amount Stu	dy Amount in Study:	
		Amount Incl HST	
		Year in the study	
) CA and/or Life Cycle: Explain if th	here is a change in the year and/or cost:		

2024 PROJECT FUNI	DING REQUEST FORM Number	: 24067
Project Name: Vehicle/Industrial Extrication Modernia		\$366,300
Commission: CAO, Legal, HR & Fire Department: Fire & Emergency Services	Useful Life: 5 Category: Minor	Asset/Expansion Pre Approval:
Project Mgr:Matt KeayWard(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$	Cost Validation: Requirement Validation: ITS Involved Project: Is ITS Consulted?	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	115 minorized 1 toject. Is 115 Consulted? =	

A redployment of extrication capabilities supported by modern equipment and new training based on new vehicle technology per NFPA Standard 1006 (Technical Rescue), which outlines the technical competencies for vehicle and industrial equipment extrication at the technician level. Current Auto Ex program based on legacy equipment which addresses traditional small passenger vehicles. New equipment and dynamic deployment will substantially increase capabilities and expand rescue to industrial equipment and heavy vehicles.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

<u>2024</u>	<u>Future Phases</u>	NOTES This equipment	project will p	rovide the n	ew tools to me	Pet NFPA
360,000	0					
0	0	capability which	h will meet de	ployment no	eeds while cor	ntrolling cos
0	0			1 / 1		
0	0	-		· • •	1 0 11	
360,000	0	\$40,000/appara	atus. There wil	l be an incre	ease in Life C	ycle to
6,336	0					
366,300	0	removal of lege	ie y equipment	currentry ic		. Life Cycle.
<u> (\$)</u>		Compone	ents			
Budget					TOTAL	<u>Future</u> <u>Phases</u>
366,300	0	0	0	0	0	0
366,300				-	0	0
	360,000 0 0 360,000 6,336 366,300 € (\$) Budget 366,300	360,000 0 0 0 0 0 0 0 360,000 0 360,000 0 366,300 0 366,300 0 366,300 0	2024 Future Phases 360,000 0 0 0 0 0 0 0 0 0 0 0 0 0 360,000 0 360,000 0 360,000 0 366,300 0	2024Future Phases $360,000$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 $360,000$ 0 $6,336$ 0 $366,300$ 0ComponentsBudget366,300 0	2024Future Phases360,000000000000000000360,0000366,3000366,3000BudgetComponents366,3000366,3000	2024Future Phases360,000000000000000000360,0000360,0000360,0000366,3000ComponentsBudgetTOTAL366,3000366,3000 <t< td=""></t<>

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

DCA/LIFE CYCLE DETAILS

<u>DCA</u>	•	Amount in	<u>Life Cycle</u>
Name	Year Amount	Study	Amount in Study:
			Amount Incl HST
			Year in the study

The legacy equipment inventoried in the Life Cycle will be replaced by the assets requested under this project as part of the next Life Cycle Reserve Study update. Department is requesting the acceleration of \$366k from the \$1.2M in the Life Cycle Reserve. Inventory, costs, and cycle factors will be updated as part of the next Life Cycle Reserve Study update.

IT Services

2024 PROJECT FUND	DING REQUEST FORM Number: 24068
Project Name: ITS - Finance System Modernization	Project Cost: \$805,900
	Repair/Replace
Commission: Corporate Services	Useful Life: 8 Pre Approval:
Department: ITS	Userui Lite. 8 Pie Appiovai.
Project Mgr: Ned Sirry	Category: Major
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Other(specify in Notes)
	Requirement Validation: Multiple(specify)
5 6 7 8	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?

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Placeholder required to address the need for a Financial system Modernization. The current Financial system (Cayenta) is two versions out of date and the current version will no longer be supported by mid-2024. Placeholder will enable staff to evaluate potential alternatives while ensuring funding is available for a minimal viable product. Supporting presentation will detail the alternatives.

BUILDING MARKHAM'S FUTURE TOGETHER: Stewardship of Money & Resources

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Capital estimate is a placeholder while more in depth conversati
Cost/Quote:	620,000	1,644,000	to take place with potential solution providers to receive high le
Internal Charges: External Consulting: Contingency %: 10	0 100,000 72,000	0 0 164,400	cost estimates. Added in external consulting needs for requirement processing. It is critical that a decision is made in mid-2024 regardless of the direction (i.e. upgrade or replacement). Future phases will apply should the City proceed with an upgrade and c
Sub Total: 	792,000 13,939 805,900	1,808,400 31,828 1,840,200	high level estimates are subject to change. Should we proceed w an upgrade, the future phase could be partially funded with exist budgets. With respect to OpEx impacts, the provisions are based estimated cost of replacement or moving to a SaaS based solution

SOURCE(S) OF FUNDING (\$)

							E
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	338,490	0	0	0	0	0	937,075
Other Internal	0	0	0	0	0	0	234,055
Tax	467,410	0	0	0	0	0	0
TOTAL FUNDING	805,900				=	0	1,840,200

Components

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$500,000	\$0	\$500,000

DCA/LIFE CYCLE DETAILS

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

The funding will be drawn directly from the Life Cycle Reserve and will be reflected as part of the annual Life Cycle Reserve study.





Financial System Modernization

Sumon Acharjee, CIO Joseph Silva, Treasurer 9-11-23



BUILDING MARKHAM'S FUTURE TOGETHER 2020 – 2023 Strategic Plan



City of Markham Digital Enterprise House

ERP Cayenta and ADP Workforce Now







ERP - *New Emerging Concerns

- Cayenta has served the City for many years, We are currently on v7.9 however we are now 2 full versions behind (latest is now 9.2) and require upgrades to maintain support. The new versions is a complete overhaul of the platform and will be a large change for users (akin to a new implementation for testing)
 - Total backend (OpenText to Cognos)
 - Front end change (Client Server to Web)
 - Recommended database change from Oracle to SQL
- Background:
- Previous upgrades focused on like-for-like functionality; we have not updated to the current best practice
- We cannot deploy Windows 11 for Cayenta Users (Current Windows out of support within 2 year)
- We recently had 1 week of down-time for invoices as Cayenta had to get support from OpenText
- Much longer turnaround time/expense for integrations – Adding complexity to our platform efforts

- G/L Structure to account for current and future needs
- A/P Co Enable EFT, Improve Approval Efficiency/Automation
- Budgeting Better integration
- Eliminate multiple sources of information and de-risk continuity of organizational knowledge consistency
- Challenge with Payroll/Cycles/Complexity (Address Org Configurations)
- Challenge with recent platform adoptions/workaround (Lucity, xPlor,...)




Need to make Finance System Platform Decision

- Current Cayenta Version is now approaching "High Risk" for support and the longest we can keep running in 2 years. Given the 2 year window we should action as follows: Vet Options, Continue with Cayenta or New ERP Platform.
- Need a decision within before end of Q2 to mitigate risk of our core Platform.

Upgrade Cayenta, (Keep the Lights Running)

- We are working on pricing/options of upgrade.
 Based on the latest estimates with the vendor we expect costs for the upgrade to be \$805K to \$1.2M one-time.
- Time to upgrade (12-18 months)
- Factors Need to re-implement/modernize functionality
- Lack of wide-scale support of Cayenta for our digital foundations
- Large Change Management Effort for Finance and Business Users
- Does not address AP Automation, Efficiency Opportunities until after the upgrade (18 months)

Move to a modern Cloud ERP Platform - Finance

- approx. \$2.35M (Benchmark less than half of a full ERP investment)
- Time to Implement 9-12 Months
- Factors aligning to best practice (vs reimplement Cayenta based practices. Some high level benefits:
 - Increased efficiency, though reduction in manual processing and reliance on access databases/spreadsheets check
 - Single source of "truth" with actionable analytics and transactions in the same system leading to deeper insights into costs, capital projects, expenses, program effectiveness, etc.
 - Quicker adoption of modern best practices in AP/GL/Budget etc with added benefit as software changes (no longer worry about version upgrades)
- Large Change Management Effort for Finance and Business Unit Users
- Creates nimbleness for a growing City





Recommendation

- Approve Capital Allocation of \$805,900 for 2024 with Future Years to be determined and currently estimated to be \$1,840,200.
 - Finance and ITS Leadership will work with vendors to review both options, business case, feasibility and determine the course of an upgrade or replacement of system.
 - This decision needs to be determined no later than June 1st 2024.
 - If it is a Cayenta Upgrade The Capital portion for 2024 should facilitate a "like for like" upgrade to proceed immediately thereafter.
 - If it is a replacement, then move forward for Platform Selection and Implementation Partner selection (in two phases) in late 2024, Capital Portion should be enough to award Platform Selection.

2024 PROJECT FUNL	DING REQUEST FORM Number: 24069	
Project Name: ITS - Tour App	Project Cost: \$75,000 New Asset/Expansion	
Commission: <u>Corporate Services</u> Department: <u>ITS</u> Project Mgr: Elton Chong / Andrea Carpenter	Useful Life: 0 Pre Approval:	
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$	Cost Validation:Third party estimateRequirement Validation:Other(specify in Notes)ITS Involved Project: Is ITS Consulted?	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	115 myorved 10 Jeel. 15 115 Consulted =	

We seek to launch an app or mobile website that will serve audiences for Markham Museum, Varley Art Gallery, and other City-wide experiences such as Public Art, local tours and trails. There will be three primary digital engagement channels: 1) Mobile first engagement: either a single mobile guide across the city and alternatively, siloed mobile guides for each of the three participating entities: Markham Museum, Varley Art Gallery, and other City of Markham tourism. These mobile first experiences will offer tourists and local residents self-guided tours, scavenger hunt challenges, and way-finding. 2)Virtual learning: Markham Museum will deploy "edukits" to accompany exhibitions and serve teachers and students pre and post educational program visit. 3) Online exhibitions: online exhibitions will be available to Markham Museum and Varley Art Gallery to serve audiences onsite and offsite, archive closed exhibitions, and highlight current collection stories.

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

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Axiell Culture Connect is a known solution and
Cost/Quote:	73,700	0	of MimsyXG. Estimates are based on quote pro
Internal Charges:	0	0	Varley Foundation has secured \$10,000.00 to pr
External Consulting:	0	0	project.
Contingency %: 0	0	0	
Sub Total:	73,700	0	
HST Impact:	1,297	0	
Total Project Cost:	75,000	0	

SOURCE(S) OF FUNDING (\$)		Components						
<u>Funding Type</u>	<u>Budget</u>	<u>75,000</u>				<u>TOTAL</u>	<u>Future</u> <u>Phases</u>	
Other External	10,000	0	0	0	0	0	0	
Other Internal	20,000	0	0	0	0	0	0	
Tax	45,000	0	0	0	0	0	0	
TOTAL FUNDING	75,000					0	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$75,000	\$0	\$75,000

2024 PROJECT FUN	DING REQUEST FORM Number:	24070
Project Name: Museum Wifi	Project Cost:	\$87,900 Asset/Expansion
Commission: <u>Corporate Services</u> Department: <u>ITS</u> Project Mgr: Elton Chong / Andrea Carpenter	Useful Life: 6 Category: Minor	Pre Approval:
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: Internal peer review Requirement Validation: Other(specify in No ITS Involved Project: Is ITS Consulted?	

Expand our public Wi-Fi network out into the Museum site. Museum only currently has indoor wifi in four buildings - Mt. Joy, John Lunau Centre, Church and Transportation. Project will enhance visitor engagement, increase digital interactivity, allow accessible self-guided tours, increase educational resources for programs and allow visitors to access event info. It will also increase appeal to potential renters and allow for the expansion of rental & program offerings. This aligns with our commitment to inclusivity, connectivity, and forward-thinking, while honouring our historical heritage.

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

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Upgrade plan and cost estimate provided by City ITS
Cost/Quote:	82,250	0	Departement. The project will require access points X 8, 12 pe
Internal Charges:	0	0	managed network switches X 2, Wifi development X 7, 1km 1
External Consulting:	0	0	strand single/multi mode fibre X 1, and Fibre Building costs X
Contingency %: 5	4,112	0	
Sub Total:	86,362	0	
HST Impact:	1,520	0	
Total Project Cost:	87,900	0	

<u> S)</u> Components						D 4
Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
87,900	0	0	0	0	0	0
87,900					0	0
	87,900	Budget 87,900 0	Budget 87,900 0 0	Budget 87,900 0 0 0	Budget 0 <td>Budget TOTAL 87,900 0 0 0 0</td>	Budget TOTAL 87,900 0 0 0 0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
<u>OFERATING BUDGET IMFACT</u>	\$0	\$25,000	\$0	\$25,000

Name Year Amount Study Amount in Study:
Year in the study
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:
Dex and/of the Cycle. Explain if there is a change in the year and/of cost.

2024 PROJECT FUNDING REQUEST FORM

Number:	24071
	• •

			Project C	Cost:	\$50,900
Project Name: Library	y - Scheduling Software			New	Asset/Expansion
Commission: Corporat	te Services	T	Jseful Life:	0	Pre Approval:
Department: ITS		_		0	rie Appiovai. —
Project Mgr: Catherin	e Biss	Category:	Annual		
Ward(s): CW 🖌 1		Cost Validation:	Third party	estimat	e
		Requirement Validation:	Other(specif	fy in No	otes)
$5 \ 6 \ 7 \ 8 \$ DETAILED DESCRIPTION (SCOPE OF PROJECT): $ITS Involved Project: Is ITS Consulted? \checkmark$					
Scheduling software will	facilitate the seamless scheduling of MPI	L staff across 8 current service	ce locations,	which a	are open to the public
7 days per week (65.5 hrs). The workforce includes full-time, part-	time & casual staff working	shifts of vary	ying ler	ngths & in
compliance with three Co	llactive Agreements Scheduling softwar	a will managa public corvica	staff at all la	wale or	suring officiancy &

7 days per week (65.5 hrs). The workforce includes full-time, part-time & casual staff working shifts of varying lengths & in compliance with three Collective Agreements. Scheduling software will manage public service staff at all levels, ensuring efficiency & consistency in scheduling practices & the effectiveness of both the biweekly rotation schedule (master schedule) & daily department schedules that prescribe the deployment of staff. Scheduling technology will permit MPL to maximize the use of its low staffing resources to better meet customer demands. Will also ensure more efficient & effective schedules across all departments. Will improve customer service by enabling supervisors & managers to better concentrate on coaching & developing front line staff. Currently, schedules are being done via Excel - this has proven to be a very inefficient solution given the complex nature of Library scheduling as described above.

BUILDING MARKHAM'S FUTURE TOGETHER: Stewardship of Money & Resources

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES ITS has provided an estimate of \$50K for the Library scheduling
Cost/Quote:	50,000	0	solution. A portion of this will be used for implementation of the
Internal Charges:	0	0	software and includes the Year 1 subscription cost to the service. The annual subscription ($(20K)$) for Year 2. & subscription
External Consulting:	0	0	The annual subscription (\$20K) for Year 2 & subsequent years will then be paid from the operating budget.
Contingency %: 0	0	0	will then be paid from the operating budget.
Sub Total:	50,000	0	
HST Impact:	880	0	
Total Project Cost:	50,900	0	
-			

SOURCE(S) OF FUNDING (\$)		Components					
<u>Funding Type</u>	<u>Budget</u>	Software	Subscription Yr1			TOTAL	<u>Future</u> <u>Phases</u>
Other Internal	50,900	30,900	20,000	0	0	50,900	0
TOTAL FUNDING	50,900				-	50,900	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$20,000	\$0	\$20,000	

DCA/LIFE CYCLE DETAILS

RKHAM

MARKHAM 2024 PROJECT FUND	ING REQUEST FO.	N 1 V1	Number:	24072
Project Name: ITS - Auto CAD License or replacement		Proje	ect Cost:	\$20,400
			Repair	r/Replace
Commission: Corporate Services Department: ITS	τ	Jseful Lif	fe: 5	Pre Approval:
Project Mgr: Matt Miller	Category:	Annual		
Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □	Cost Validation:	Third p	arty estimate	;
	Requirement Validation:	Other(s)	pecify in Not	tes)
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Cons	ulted? 🔽	
DETAILED DESCRIPTION (SCOPE OF PROJECT): Need to look at either alternate vendors for CAD solution or according to the solution of the solut				nsing model.

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES \$20K increased expected in capital plus ongoing Opex of \$20K
Cost/Quote:	20,000	0	(less current Opex - TBD)
Internal Charges:	0	0	
External Consulting:	0	0	
Contingency %: 0	0	0	
Sub Total:	20,000	0	
HST Impact:	352	0	
Total Project Cost:	20,400	0	
=			

SOURCE(S) OF FUNDING (\$) Components							Futuro
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Tax	20,400	0	0	0	0	0	0
TOTAL FUNDING	20,400					0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$20,000	\$0	\$20,000	

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

MARKHAM 2024 PROJECT FUND		D • • • •	a ,	+== +==	
Project Name: ITS - Cell Boosters (Community Centres)		Project (Cost:	\$53,400	
			New A	Asset/Expansion	
Commission: Corporate Services	I	Useful Life:	5	Pre Approval:	
Department: <u>ITS</u> Project Mgr: Sugun Rao	Category:	Minor			
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation:	Other(speci	ify in No	tes)	
	Requirement Validation:	Other(speci	fy in Not	tes)	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?				
Require capital to provide hardware needed to ensure cell traffic in	·	U			
staff and citizen experience. This will also enhance the ability for	the community centres to pr	ovide a safe e	environm	ent for our citizens	

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES				
Cost/Quote:	50,000	0	Capex - \$50	JK			
Internal Charges:	0	0					
External Consulting:	0	0					
Contingency %: 5	2,500	0					
Sub Total:	52,500	0					
HST Impact:	924	0					
Total Project Cost:	53,400	0					
SOURCE(S) OF FUNDING	(\$)		Сотр	onents			Future
Funding Type	<u>Budget</u>				TOTA	L	<u>Phases</u>
Tax	53,400	0	0	0	0	0	0
TOTAL FUNDING	53,400					0	0
OPERATING BUDGET IM	PACT Fe	sonnel Non Per		Sevenues	Expenditures/(Revenue \$0	es)	
DCA/LIFE CYCLE DETAIL	S	·					
DCA Name	_	Yea	r Amount	Amount in Study	Life Cycle		
					Amount in Study:		
					Amount Incl HST		
					Year in the study		
DCA and/or Life Cycle: E	xplain if there is	s a change in the year	r and/or cost:				
DCA and/or Life Cycle: E	xplain if there is	s a change in the yea	r and/or cost:				
DCA and/or Life Cycle: E	xplain if there is	s a change in the yea	r and/or cost:				
DCA and/or Life Cycle: E	xplain if there is	s a change in the yea	r and/or cost:				
DCA and/or Life Cycle: E	xplain if there is	s a change in the yea	r and/or cost:				

MARKHAM 2024 PROJECT FUNL		INI	umber:	24075
		Project (Cost:	\$26,700
roject Name: ITS - Cloud Storage Backup			New A	sset/Expansion
Commission: Corporate Services Department: ITS	τ	Jseful Life:	5	Pre Approval:
Project Mgr: Sugun Rao	Category:	Annual		
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation:	Other(speci	ify in Not	es)
	Requirement Validation:	Other(speci	fy in Not	es)
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulte	d? 🔽	

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES \$25k in capital to implement - plus \$100K annually in
Cost/Quote:	25,000	0	license and maintain.
Internal Charges:	0	0	
External Consulting:	0	0	
Contingency %: 5	1,250	0	
Sub Total:	26,250	0	
HST Impact:	462	0	
Total Project Cost:	26,700	0	

SOURCE(S) OF FUNDING (<u>\$)</u>		Futuro				
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	26,700	0	0	0	0	0	0
TOTAL FUNDING	26,700					0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$100,000	\$0	\$100,000

A	mount in	<u>Life Cycle</u>
Year Amount	Study	Amount in Study:
		Amount Incl HST
		Year in the study

2024 PROJECT FUNDING REQUEST FORM

MARKHAM	2024 PRO	JECT I	FUNDI	NG RE	QUEST FO	ORM N	umber:	24	076
Drainat Nama: IES C		4 T				Project	Cost:	\$2,23	8,700
Project Name: ITS - Cor	porate CRM S	ystems In	npiement	ation			Repair	/Replac	e
Commission: Corporate S	ervices					Useful Life:	8	Pre Ap	proval: 🗆
Department: <u>ITS</u>					Category		0	i ie rip	provui.
Project Mgr: <u>Ned Sirry</u>					Cost Validation		ify in Not		
	2 3 4			Require	ment Validation		•	((3)	
5 🗌	6 7 8						•		
DETAILED DESCRIPTIO					olved Project: Is				
With the disengagement of o will be used to cover cost of of a new platform. CXM stra This is an placeholder and es anticipated ongoing licensing BUILDING MARKHAM'S	the platform. The tegy workshops a stimated cost need g, maintenance ar	e larger exp are underwa d for a SI (S ad support a	bense will b ay and mon System Imp model need	be the imp re definiti plementer led for the	lementation, conversion of the second	nfiguration, in be determined e Opex requir	tegration, l after a p	training latform	g etc. need is chosen.
PROJECT COSTS (\$)	2024	T 4	Dhogag	NOTE	S				
	<u>2024</u>	<u>r uture</u>	<u>Phases</u>		n support of the				
Cost/Quote:	2,000,000		0		f our current plat ife and unsuppor		ctive Citi	zen Reg	luest) bein
Internal Charges: External Consulting:	0		0 0						
Contingency %: 10	200,000		0						
Sub Total:			0						
HST Impact:	2,200,000 38,720		0						
Total Project Cost:	2,238,700		0						
= SOURCE(S) OF FUNDING	<u>; (\$)</u>			Co	omponents				
Funding Type	Budget						<u>TC</u>	DTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	2,238,700		0	0	0	()	0	
TOTAL FUNDING	2,238,700							0	
	Р	ersonnel	Non Per	sonnel	Revenues	Expenditu	res/(Reve	enues)	
OPERATING BUDGET IN	<u>MPACT</u>	147,245	\$300.		\$0	-	47,245)	
DCA/LIFE CYCLE DETAI		,			+ *	÷ ·	,		
DCA					Amount in	T ifo	Cycle		
Name			Yea	r Amo			-		
							int in Stud	-	
						Amou	nt Incl H	ST	
						Year	in the stu	dy	
DCA and/or Life Cycle:	Explain if there	is a change	in the year	r and/or c	ost.				
	2	is a change	in the year						

Supplemental Support Document – CRM Capital Request

To further support the CRM capital request, the following factors were considered in the request:

- Capital estimates leverage the knowledge gained during the previous RFP process and selection of a CRM platform
- To improve the decision making required in selecting a robust platform moving forward, a CX strategy was developed in consultation with a consulting agency via a multi-day guided workshop involving stakeholders from multiple BU's
- After selection of a platform, to implement a solution of this nature a systems implementation partner will need to be chosen. The systems implementation partner will work collaboratively with the City in the following areas of consideration:
 - o Discovery sessions
 - Architectural design
 - Process mapping
 - Configuration of features and modules
 - o Development of Customizations
 - Application integrations
 - Data migrations
 - Unit and user acceptance testing (iterative)
 - Training
 - o Maintenance plans
 - Updates and upgrades
- Further to the above point as a result of the previous work accomplished we will have the ability leverage the thorough documentation previously captured including workflows, processes, integration needs, test cases. While this may not factor into facilitating a reduced cost, we do expect that this will support the reduced time to implement a solution once a platform and SI partner are chosen.
- For the reason above, it is not anticipated that further consulting dollars in the form of a contractor or otherwise will be required for this capital request

Using the information noted above, the following estimates can be derived:

Capital Justification:

Category:	Notes:	Estimated Total Cost:
Platform Cost	Based on previous RFP experience	\$700,000
Systems Implementation	Based on previous RFP experience	\$1,300,000
Contingency	10% of Capital Request	\$200,000
Total		\$2,200,000
HST Impact	1.7%	\$37,400
Estimated Grand Total		\$2,237,400

0
val: 🗆
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ESRI is moving to an Enterprise Licence Model to account for more detailed work being done with ESRI mapping applications. This application is required to support the mapping of City assets. The incremental increase is expected to be \$97,000 (exclusive of HST).

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES There is a budget of \$103,000 based on the current number of
Cost/Quote:	97,000	0	usersfor ESRI. The enterprise licence cost is \$200,000 and this
Internal Charges:	0	0	willallow for additional users as required (i.e., new charge is not basedon number of users). An incremental increase of \$97,000 is
External Consulting:	0	0	required in 2024 for Capital Expense and a subsequent annual
Contingency %: 0	0	0	incremental Operating Expense of \$97,000 beginning in 2025 fo
Sub Total:	97,000	0	the annual Enterprise Licence (excluding HST).
HST Impact:	1,707	0	
Total Project Cost:	98,700	0	

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING	(\$)	Components						
<u>Funding Type</u>	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>	
Building Fees	26,320	0	0	0	0	0	0	
Development Fees	26,320	0	0	0	0	0	0	
Tax	19,740	0	0	0	0	0	0	
Waterworks	26,320	0	0	0	0	0	0	
TOTAL FUNDING	98,700				=	0	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$98,700	\$0	\$98,700	

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

MARKHAM 2024 PROJECT FUNI	DING REQUEST FORM Num	ber: 24078
Project Name: ITS - Existing Portal Infrastructure Ex	Project Cos	t: \$341,900
		Repair/Replace
Commission: Corporate Services	Useful Life: 1	Pre Approval:
Department: <u>ITS</u> Project Mgr: Rob Cole	Category: Minor	
Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □	Cost Validation:	
	Requirement Validation:	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?	✓

Our exisitng portal is managed on infrastructure at Compugen. The current contract for support and use of this infrastructure ends in April 2024. The replacement project is currently in the development phase and is due to be completed by the end of 2024. To accommodate the continued support for the current platform while Drupal is being implemented, we will require additional funding.

BUILDING MARKHAM'S FUTURE TOGETHER:

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Extension of existing infrastructure for 9 months - April 1st - D
Cost/Quote:	336,000	0	31st, 2024. Estimate is based on current costs (\$90K/quarter +
Internal Charges:	0	0	\$66K one-time support = \$336K pre-tax). Actual quote will be
External Consulting:	0	0	available in Q1-2024.
Contingency %: 0	0	0	
Sub Total:	336,000	0	
HST Impact:	5,914	0	
Total Project Cost:	341,900	0	

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING ((\$)			Future			
<u>Funding Type</u>	Budget					<u>TOTAL</u>	Phases
Building Fees	20,514	0	0	0	0	0	0
Development Fees	27,352	0	0	0	0	0	0
Operating Funded Life Cycle	273,520	0	0	0	0	0	0
Waterworks	20,514	0	0	0	0	0	0
TOTAL FUNDING	341,900				=	0	0

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

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

MARKHAM 2024 PROJECT FUND	ING REQUEST FO	RM NI	umber:	24079
Project Name: ITS - Front Desk		Project (-	\$55,600
Commission: Corporate Services	U	Jseful Life:		sset/Expansion Pre Approval:
Department: <u>ITS</u> Project Mgr: <u>Robert Cole</u>	Category:			
Ward(s): CW \checkmark 1 \square 2 \square 3 \square 4 \square	Cost Validation: Requirement Validation:			es)
$5 \square 6 \square 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	• •		

Front Desk software allows visitors to register an appointment to meet with City staff at our Civic Centre entrances. As part of our Customer Service strategy, this software will reduce wait times at our various service counters, and allow citizens to view peak periods and set appoints with City staff.

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This is a SaaS based software with hardware to implement in our
Cost/Quote:	50,000	0	Civic Centre Entrances to receive visitors. Future phases include
Internal Charges:	0	0	the rollout of additional kiosks @ \$6K/kiosk.
External Consulting:	2,000	0	Support and Maintenance approx. \$30K/year.
Contingency %: 5	2,600	0	
Sub Total:	54,600	0	
HST Impact:	961	0	
Total Project Cost:	55,600	0	
SOURCE(S) OF FUNDING	<u>; (\$)</u>		Components Future

Funding Type	<u>Budget</u>	<u>0</u>				<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
		0	0	0	0	0	0
Other Internal	55,600	0	0	0	0	0	
TOTAL FUNDING	55,600					0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$30,000	\$0	\$30,000

<u>DCA</u>			Amount in	<u>Life Cycle</u>
Name	Year	Amount	Study	Amount in Study:
				Amount Incl HST
				Year in the study
DCA and/or Life Cycle: Explain if there is a change i	n the year a	nd/or cost:		

2024 PROJECT FUNL	DING REQUEST FO	RM	Number:	24080
Project Name: ITS - IT Consultants 2024		Projec	et Cost:	\$254,400
			New A	Asset/Expansion
Commission: Corporate Services	I.	Jseful Life	v 1	Pre Approval:
Department: ITS	-		. 1	rie appiovai.
Project Mgr: Robert Cole	Category:	Annual		
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation:	Internal j	peer review	
	Requirement Validation:			
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I'	TS Consu	lted? 🔽	
7 th various initiatives going on, ITS needs to supplement the t	eam to assist in these project. T	This will r	equire the s	ervices of an

Enterprise Architect, Solution Developers, QA and Cyber Security resources.

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES In 2024, the ITS workload will be beyond its current cap
Cost/Quote:	250,000	0	various high profile projects being started. ITS requires a
Internal Charges:	0	0	resources to support these projects, including Solution
External Consulting:	0	0	Architecture, Development and QA resources. In addition various inititives going on in the Cyber Security area, the
Contingency %: 0	0	0	continuation of our existing cyber security resources is req
Sub Total:	250,000	0	
HST Impact:	4,400	0	
Total Project Cost:	254,400	0	

SOURCE(S) OF FUNDING (\$)

		Compone	ents			Future
Budget					<u>TOTAL</u>	Phases
16,960	0	0	0	0	0	0
16,960	0	0	0	0	0	0
203,520	0	0	0	0	0	0
16,960	0	0	0	0	0	0
254,400					0	0
-	16,960 16,960 203,520 16,960	16,960 0 16,960 0 203,520 0 16,960 0	16,960 0 0 16,960 0 0 203,520 0 0 16,960 0 0	16,960 0 0 0 16,960 0 0 0 203,520 0 0 0 16,960 0 0 0	16,960 0 <td>16,960 0</td>	16,960 0

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

<u>DCA</u>		Amount in	<u>Life Cycle</u>	
Name	Year Amount	Study	Amount in Study:	
			Amount Incl HST	
			Year in the study	

MARKHAM 2024 PROJECT FUND	ING REQUEST FO	RM	Number:	24081
Project Name: ITS - Life Cycle Asset Replacement		Projec	ct Cost:	\$479,300
			Repair	/Replace
Commission: Corporate Services	t	Jseful Life	e: 0	Pre Approval:
Department: ITS	Category:	Major		II ·····
Project Mgr: Sugun Rao	0.1	-		
Ward(s):	Cost Validation:	Recent a	wards	
	Requirement Validation:			
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consu	lted?	

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

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PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The request includes replacement of the following aging ha
Cost/Quote:	471,000	0	1. Library Public Media Lab equipment 2. Two Servers for
Internal Charges:	0	0	environment. 3. Smartphones Replacement and 4. Internal
External Consulting:	0	0	Recovery for 3 staffs have been included in the Citywide S Salary Reovery project.
Contingency %: 0	0	0	For details, see supporting document.
Sub Total:	471,000	0	
HST Impact:	8,290	0	
Total Project Cost:	479,300	0	

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING ((\$)		Compone	ents			Future
<u>Funding Type</u>	Budget					TOTAL	Phases
Building Fees	24,720	0	0	0	0	0	0
Development Fees	32,952	0	0	0	0	0	0
Operating Funded Life Cycle	396,900	0	0	0	0	0	0
Waterworks	24,728	0	0	0	0	0	0
TOTAL FUNDING	479,300				=	0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$52,776	\$0	\$52,776	

Name	Year Am	ount Study	Amount in Study:1,183Amount Incl HST396Year in the study
	nge in the year and/or		Amount Incl HST 396
	nge in the year and/or		
	nge in the year and/or		

DETAILS FOR CAPITAL PROJECT IT LIFECYCLE ASSET REPLACEMENT

					Sourc	e of Funding		
Item	Quantity	Total Co	sts	Life Cycle	Water Works	Building	Engineering	Planning
2024 IT Lifed	ycle As	set re	olace	ement				
1 Library Media Lab equipment Replacement Replacement of aging Public Media Lab equipment's		\$	6,000	\$66,000	\$0	\$0	\$0	ţ
2 HPE Server HPE servers and required licenses to provide additional computing power on our Hyper Converge environment.	2	\$	75,000	\$60,000	\$4,500	\$4,500	\$3,000	\$3,00
3 City Wide Smartphone Replacement Lifecycle replacement of 20% of corporate smartphones. Mainly due to wear and tear related issues such as degrading battery life.	150	\$	30,000	\$24,000	\$1,800	\$1,800	\$1,200	\$1,20
4 Internal Charges - 3 Staff for Project Resources This resource is required in order to implement IT Capital Projects	3	\$ 30	0,000	240,000	18,000	18,000	12,000	12,00
Tota	I	\$471	,000	\$390,000	\$24,300	\$24,300	\$16,200	\$16,20
HST Impac	t 1.76%	9	8,290	\$6,864	\$428	\$428	\$285	\$28
Total with HST Impac	t	\$479	,290	\$396,864	\$24,728	\$24,728	\$16,485	\$16,48

MARKHAM 2024 PROJECT FUND	ING REQUEST FO	RM N	umber:	24082
Project Name: ITS - Portal/Mobile Part 2		Project	-	\$534,200
Commission: Corporate Services Department: ITS Project Mgr: Rob Cole	U Category:	Jseful Life: Major	5	Pre Approval:
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: Requirement Validation: ITS Involved Project: Is I	Other(spec	ify in Not	
Needed funding for Portal Phase 2 which will be to ensure an om includingenhancements to the Portal, additional mobile capabiliti	-		Markham,	,

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

External Consulting:500,0000Contingency %: 525,0000Sub Total:525,0000HST Impact:9,2400	PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES Capex and Opex TBD - cost estimates not yet available - this is a
External Consulting:500,0000Contingency %: 525,0000Sub Total:525,0000HST Impact:9,2400	Cost/Quote:	0	0	placeholder Capital DB submission.
External Consulting: 500,000 0 Contingency %: 5 25,000 0 Sub Total: 525,000 0 HST Impact: 9,240 0	Internal Charges:	0	0	Primarily consulting/development costs to expand portal to develo
Sub Total: 525,000 0 HST Impact: 9,240 0	External Consulting:	500,000	0	online access functions for chizens.
HST Impact: $9,240$ 0	Contingency %: 5	25,000	0	
	Sub Total:	525,000	0	
	HST Impact:	9,240	0	
Total Project Cost: 534,200 0	Total Project Cost:	534,200	0	

SOURCE(S) OF FUNDING	G (\$)		Compone	ents			Entuno
Funding Type	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Tax	534,200	0	0	0	0	0	0
TOTAL FUNDING	534,200					0	0

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

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

Finance

2024 PROJECT FUNDING REQUEST FORM

MARKHAM	2024 PROJ	ECT FUNDI	NG REQUEST FO	ORM Number:	24	1083
Drojact Names I	D' I M		1 4 4	Project Cost:	\$54,	200
Project Name: Insurance	0	ent Software Imp		New A	Asset/Ex	pansion
Commission: Corporate S	Services			Useful Life: 0	Pre Ap	proval:
Department: <u>Finance</u>			Category:	Minor	1	L
Project Mgr: Jeff Madele			•••	: Third party estimate	;	
	2 3 4		Requirement Validation:			
	6 7 8		ITS Involved Project: Is	· · · ·		
DETAILED DESCRIPTIO	•					
This project will see the imp fleet management process ef provides analytics and insigh external stakeholders which	ficiencies and strea tts as well as auton will improve data i	miline the risk mana- nates tasks that are contegrity/accuracy and	gement process. This would urrently being done manuation	ld be a clear improven	nent as th	ne software
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Steward	ship of Money & Resources			
PROJECT COSTS (\$)	2024	Future Phases	NOTES			
Cost/Quote:	53,250	0	Project cost for 2024 inc (\$18,750) and subcriptio			
Internal Charges:	0	0	induce an an annual oper			
External Consulting:	0	0	beginning in 2025, with	an estimated contract e	escalatio	n of 5% per
Contingency %: 0	0	0	year.			
– Sub Total:	53,250	0				
HST Impact:	937	0				
Total Project Cost:	54,200	0				
SOURCE(S) OF FUNDING	<u> (\$)</u>		Components			
<u>Funding Type</u>	<u>Budget</u>			<u>T(</u>)TAL	<u>Future</u> <u>Phases</u>
Tax	54,200	0	0 0	0	0	0
TOTAL FUNDING	54,200				0	0
OPERATING BUDGET I	MPACT Per	rsonnel Non Per	sonnel Revenues	Expenditures/(Rev	enues)	
		\$0 \$36,8	\$63 \$0	\$36,863		
DCA/LIFE CYCLE DETA	ILS					
<u>DCA</u>			Amount in	Life Cycle		
Name		Year	r Amount Study	— Amount in Stu	dy:	
				Amount Incl H	ST	
				Year in the stu		
					,]
DCA and/or Life Cycle:	Explain if there is	a change in the year	and/or cost:			

MARKHAM 2024 PROJECT FUND	ING REQUEST FORM Number	r: 24084
Project Name: Internal Project Management	Project Cost:	\$1,025,100 dies/Pilot Programs
Commission: <u>Corporate Services</u> Department: <u>Finance</u> Project Mgr: Kevin Ross/Graham Seaman	Useful Life: 0 Category:	Pre Approval:
Ward(s): CW \checkmark 1 \bigcirc 2 \bigcirc 3 \bigcirc 4 \bigcirc 5 \bigcirc 6 \bigcirc 7 \bigcirc 8 \bigcirc	Cost Validation:	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box	

Project to allocate internal resource costs to Development Charges associated with the administration and procurement management aspects of capital growth. The project represents 90% of the total costs and the remaining 10% will be funded from the operating budget.

BUILDING MARKHAM'S FUTURE TOGETHER:

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Requirement validation: Internal resource costs of 10 staff
Cost/Quote:	0	0	associated with capital growth (development charges) project
Internal Charges:	1,025,076	0	
External Consulting:	0	0	
Contingency %: 0	0	0	
Sub Total:	1,025,076	0	
HST Impact:	0	0	
Total Project Cost:	1,025,100	0	

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING	<u>G (\$)</u>		Compon	ents			F -4
<u>Funding Type</u>	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
DCA	1,025,100	0	0	0	0	0	0
TOTAL FUNDING	1,025,100					0	0

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

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

Legislative Services

2024 PROJECT FUNDING REQUEST FORM

		Project (Cost:	\$21,000
Project Name: eScribe Board Manager Plus			New	Asset/Expansion
Commission: Corporate Services	- T	Jseful Life:	0	Pre Approval:
Department: <u>Legislative Services</u> Project Mgr: Martha Pettit	Category:		0	Fle Approval.
Ward(s):	Cost Validation:	Third party	estima	te
walu(s).	Requirement Validation:	Legislative	compli	ance
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulte	d? ✔	
Currently Legislative Services utilizes eScribe for Council and Scribe Board Manager Plus. This product will support greater	0 1			

eScribe Board Manager Plus. This product will support greater organization of records for 30+ citizen advisory committees, several foundations and various boards. The module has features that support our goals of efficiency and maintaining accurate records of our citizen appointees. We will be working with our partners in IT for implementation. Currently, Legislative Services is utilizing an outdated Access database. Board Manager Plus and Annual Subscription Fee: \$ 17,069

One-Time Setup: Board Manager Setup \$ 2,983 Board Manager Application Form Setup \$ 559 Total One-Time Setup Fees \$ 3,542 + \$17,069 = \$20611

RKHAM

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	Note that this project will induce an operating cost related
Cost/Quote:	20,611	0	subscription of \$17,369 (including HST) annually beginni
Internal Charges:	0	0	2025. Annual subscrption will not increase regardless of m
External Consulting:	0	0	users or expected to change based on volume/growth.
Contingency %: 0	0	0	
Sub Total:	20,611	0	
HST Impact:	363	0	
Total Project Cost:	21,000	0	

SOURCE(S) OF FUNDING	(\$)		Compon	ents			F 4
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Tax	21,000	0	0	0	0	0	0
TOTAL FUNDING	21,000					0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$17,369	\$0	\$17,369	

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

Sustainability & Asset Management

MARKHAM 2024 PROJECT FUNL	DING REQUEST FORM Number: 24086
Project Name: 600 Village Parkway - Parking Lot Pavi	ng Project Cost: \$128,200
	Repair/Replace
Commission: Corporate Services Department: Sustainability and Asset Management	Useful Life: 5 Pre Approval:
Project Mgr: <u>Renee England</u>	Category: Minor
Ward(s): CW \bigvee 1 2 3 4	Cost Validation: Recent awards
5 6 7 8	Requirement Validation: Condition assessment
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?
This shared parking lot serves Carlton Park which includes the U	Inionville Tennis courts, a soccer field, and a baseball diamond. The

a shared use agreement in place with the Unionville Presbyterian Church. This parking lot has not been repaired or replaced since its construction in the 1980's. The asphalt is past its lifecycle and in very poor condition. Staff have assessed the condition and recommend replacement.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES The Unionville Presbyterian Church is responsible for their
Cost/Quote:	114,546	0	proportionate share of the costs for this project. The exact cost sp
Internal Charges:	0	0	will be determined at a later date.
External Consulting:	0	0	
Contingency %: 10	11,455	0	
Sub Total:	126,001	0	
HST Impact:	2,218	0	
Total Project Cost:	128,200	0	

SOURCE(S) OF FUNDING (\$)

SCORED(S) OF FORDERCO	(4)		Compon	ents			Future
Funding Type	<u>Budget</u>					<u>TOTAL</u>	Phases
Operating Funded Life Cycle	98,870	0	0	0	0	0	0
Other External	29,330	0	0	0	0	0	0
TOTAL FUNDING	128,200					0	0

Components

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

DCA/LIFE CYCLE DETAILS

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study:
		Amount Incl HST
		Year in the study

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

This property has not been added to the Operations Parking Lot Life Cycle. Staff was unaware of the shared use agreement with the Unionville Presbyterian Church. Staff was unable to add this property to the Life Cycle for 2024. It will be added to the 2025 Life Cycle and repeated as necessary over the 25 years.

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MARKHAM	NG REQUEST FORM Number:	24087
Project Name: 8100 Warden Facility Repair and/or Repla	Project Cost: acement Projects	\$158,400
Commission: <u>Corporate Services</u> Department: <u>Sustainability and Asset Management</u> Department: Lease Democrat	Useful Life: 25 Category: Major	r/Replace Pre Approval: 🗌
Project Mgr: Jason Ramsaran Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \checkmark$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: Internal peer review Requirement Validation: Condition assessme ITS Involved Project: Is ITS Consulted?	

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BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting: Contingency %: 0 Sub Total: HST Impact: Total Project Cost:	2024 155,680 0 0 0 155,680 2,740 158,400	Future Phases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$8,060 - Em \$28,340 - M \$102,000 - (designs) Project inclu Amount is v	Painting various a hergency lights (2 lechanical and Li Consultant review udes internal chan ralidated and com- based on the prior ion.	013-2014) fe safety eq v (Electrical rges. sistent with	uipment (1982 consulting an the Life Cycle	d washroom Reserve
SOURCE(S) OF FUNDING Funding Type	<u> (\$)</u> <u>Budget</u>	Painting	Compo Emergency lights	Onents Mechanical and Life <u>safety</u>	Const	ultant TOTAL	<u>Future</u> Phases
Operating Funded Life Cycle TOTAL FUNDING	158,400 158,400	20,000	8,060	28,340	102,000	158,400 158,400	0 0
OPERATING BUDGET IN DCA/LIFE CYCLE DETAI	МРАСТ	sonnel Non Pe \$0 \$		evenues Ex \$0	xpenditures \$(s/(Revenues))	
DCA Name		Yea	ar Amount	Amount in Study	Amount	vcle in Study: Incl HST the study	280,000 158,400 2024
DCA and/or Life Cycle:	Explain if there is	a change in the yea	r and/or cost:				

2024 PROJECT FUNI	DING REQUEST FORM	Number:	24088
Project Name: Accessibility Retrofit Program	Projec	t Cost: Repair	\$117,300
Commission: <u>Corporate Services</u> Department: <u>Sustainability and Asset Management</u> Project Mgr: Dana Honsberger	Useful Life Category: Annual		Pre Approval:
Ward(s): $_{CW} \bigvee _{1} \bigcirc _{2} \bigcirc _{3} \bigcirc _{4} \bigcirc _{5} \bigcirc _{6} \bigcirc _{7} \bigcirc _{8} \bigcirc _{8} \bigcirc _{1} \odot _{1} \odot _{1} \bigcirc _{1} \bigcirc _{1} \bigcirc _{1} \odot _{1} \bigcirc _{1} \bigcirc _{1} \odot _{1}$	Cost Validation: Internal p Requirement Validation: Legislativ ITS Involved Project: Is ITS Consu	ve compliar	
Ongoing program to comply with the City's accessibility and AC were determined in 2023, as part of the annual condition assessm	0	eplacement	in the budget year

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BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES \$127,511 - IASR Parking Lot Reviews and modifications, Civic
Cost/Quote:	115,271	0	Centre braille signage on washroom doors, updated signage at all
Internal Charges:	0	0	interior accessible routes including entrances and exits and ramp for outdoor washrooms, Lawn Bowling Club accessibility upgrades,
External Consulting:	0	0	and Fire Stations accessibility upgrades.
Contingency %: 0	0	0	Project includes internal charges.
Sub Total:	115,271	0	Amount is validated and consistent with the Life Cycle Reserve
HST Impact:	2,029	0	Study, and based on the prior year annual assessment and cost
Total Project Cost:	117,300	0	estimation.

SOURCE(S) OF FUNDING (\$)			Component	ts			F
Funding Type	<u>Budget</u>	Accessibility Support				<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	117,300	117,300	0	0	0	117,300	0
TOTAL FUNDING	117,300					117,300	0
	117,500					117,500	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$174,045	\$0	\$0	\$0

<u>DCA</u>	Amount in	<u>Life Cycle</u>		
ame Year Amount Study	Amount in Study: 129,500			
		Amount Incl HST 117,300		
		Year in the study 2024		
	here is a change in the year and/or cost:			

MARKHAM 2024 PROJECT FUND	DING REQUEST FORM Number:	24089
Project Name: Angus Glen C.C. East Entrance Wall Re	Project Cost:	\$160,000
		r/Replace
Commission: Corporate Services	Useful Life: 25	Pre Approval:
Department: <u>Sustainability and Asset Management</u> Project Mgr: Colby Brygidyr / Scott Hill	Category: Minor	
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation: External peer review	W
5 6 2 7 8	Requirement Validation: Condition assessme	nt
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box	
The exterior wall located by the East entrance at Angus Glen C.C roject will identify issues through destructive testing (removal o		

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

bigger issues arise we will identify and plan for repairs accordingly.

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The East wall adjacent to the East entrance into Angus Glen C.C. is
Cost/Quote:	157,200	0	original and was built in 2003. A condition assessment has indicated
Internal Charges: External Consulting:	0 0	0 0	that the exterior wall by the East entrance of the Angus Glen C.C. has cracks throughout the mortar joints that run from the ground
Contingency %: 0	0	0	upward towards the roof. A thermal scan conducted in 2023 also identified an area on the same wall above the overhang displaying
Sub Total:	157,200	0	signs of heat loss and possible water pooling behind the veneer.
HST Impact:	2,767	0	This project will investigate and address repairs to the wall. The amount requested is consistent with recent quote.
Total Project Cost:	160,000	0	amount requested is consistent with recent quote.

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING (\$) Components						Enture	
Funding Type	Budget					TOTAL	<u>Future</u> Phases
Operating Funded Life Cycle	160,000	160,000	0	0	0	160,000	0
TOTAL FUNDING	160,000				=	160,000	0

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

<u>DCA</u> Name	Amount in Year Amount Study	Life CycleAmount in Study:1,724,200Amount Incl HST200,000
		Year in the study 2024
DCA and/or Life Cycle: Explain if there is a \$40,000 of consultant cost was part of the 20		

0		Project	Cost:	\$270,000
Project Name: Angus Glen C.C. Library Window Repla	icement	, and the second s	-	,
Commission: Cornerate Services			Repair	/Replace
Commission: <u>Corporate Services</u>	U	Jseful Life:	25	Pre Approval:
Department: <u>Sustainability and Asset Management</u> Project Mgr: Michael Ryan / Scott Hill	Category:	Minor		
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation:	Third party	v estimate	
	Requirement Validation:	Other(spec	ify in Not	es)
$5 \square 6 \checkmark 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulte	ed?	
This project is to replace three (3) built out monitors on the roof nat are situated above the library entrance and provide natural li ealants. This replacement will prevent costly repairs associated	ght into the library. The existing	ng monitors	are leakir	ng due to failed

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The library windows/monitors above the roof of the library
Cost/Quote:	248,000	0	original and were installed in 2003. Windows typically hav
Internal Charges:	0	0	useful life of 25 years, however a condition assessment ind
External Consulting:	0	0	that the window system/curtain wall and associated roofing
Contingency %: 7	17,360	0	components in the area needs to be replaced. The cost of the project is consistent with recent quote.
Sub Total:	265,360	0	Project includes internal charges.
HST Impact:	4,670	0	
Total Project Cost:	270,000	0	

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING (\$) Components					E4		
Funding Type	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	270,000	270,000	0	0	0	270,000	0
TOTAL FUNDING	270,000				-	270,000	0

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

2024 PROJECT FUNDING REQUEST FORM

Number: 24091

	Project Cost	\$1,044,400
Project Name: Building Automation Systems Replacement Program	Re	epair/Replace
Commission: Corporate Services	Useful Life: 25	Pre Approval:
Department: <u>Sustainability and Asset Management</u> Project Mgr: Aaron Cheung	ategory: Major	11012pp100000
	lidation: Multiple(specify	7)
$5 \square 6 \square 7 \square 8 \square$ Requirement Val	idation: Other(specify in	
DETAILED DESCRIPTION (SCOPE OF PROJECT): ITS Involved Pro	oject: Is ITS Consulted? \Box	
This is funding for Design and Replacement work for Building Automation Systems (I	BAS) in 7 City facilities. I	Design work consists of

engineering consultant services to audit building systems, prepare updated control replacement scope for tender packages, and contract administration and commissioning. Replacement work consists of new BAS based on tender package. The work is to migrate facilities on the old central BAS platform that is sunsetting (discontinuation of parts and software update), to the new central BAS. This project is a continuation of the 2023 BAS Replacement Program. Forecasted utility costs savings are \$40k starting in 2025, additional \$27k starting in 2027. Amount is validated and consistent with the Life Cycle Reserve Study.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting: Contingency %: 10 Sub Total: HST Impact: Total Project Cost:	2024 933,036 0 0 93,304 1,026,340 18,064 1,044,400	Future Phases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NOTES \$990,700 – Construction for FS93 (\$132,800), FS99 (\$117,300), Armadale CC (\$110,400), Varley Art Gallery (\$216,700), Markham Village Library (\$255,000), Museum Collections Bldg (\$158,500). \$53,700 – Design/consulting for Cornell Community Centre. Design and tender package in 2024 and replacement in 2025. Estimate costs based on third party quotations obtained in 2022, replacement costs in last 5 years and internal peer review. Project includes internal charges.
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SOURCE(S) OF FUNDING (\$)

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Components

	(#)						
Funding Type	<u>Budget</u>	Construction	Design/Consulting			<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
	0	0	0	0	0	0	0
Operating Funded Life Cycle	1,044,400	990,700	53,700	0	0	1,044,400	0
TOTAL FUNDING	1,044,400					1,044,400	0

OPERATING BUDGET IMPACT	Personnel Non Personnel		Revenues	Expenditures/(Revenues)	
	\$0	\$0	\$40,000	-\$40,000	
<u>OCA</u>	¥7	Amount in	<u>Life Cycle</u>		
--------------------------------	--	-----------------	----------------------------		
ame	Year Amount	Study	Amount in Study: 1,170,300		
			Amount Incl HST 1,044,400		
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:		Year in the study 2024		
	a if there is a change in the year and/or cost: rogram. The variance (excess LC) will be co	prected/updated	·		
		rrected/updated	·		



Building Automation Systems (BAS) Replacement Program (2024)



Graham Seaman, Director, Sustainability & Asset Management Aaron Cheung, BAS Coordinator Sustainability & Asset Management January 2024 MARKHAM



Purpose

To seek approval to proceed with the second year of the Building Automation System (BAS) replacement program, leveraging lifecycle and external funding, focused on keeping building climate control systems functional, cyber secured, and continue progress towards the Net Zero / Carbon reduction initiative.

1. BAS Replacement of 6 facilities in 2024

*(Armadale CC, Fire Station 93, Fire Station 99, Museum Collections, Markham Village Library, Varley Art Gallery)

2. Design and tender package of Cornell CC in 2024, for replacement in 2025

Capital Budget Requests total \$1,044,400, with external grant funding of at least \$55,000 to offset capital costs.

Forecasted **utility cost savings are \$40,000 starting in 2025 and an additional \$27,000 starting in 2026** as a result of these projects (at least \$1M of utility cost savings over a 20 year lifespan). The new BAS has improved accessibility and functionality, leading to service enhancements to staff and the public. Modernization of the BAS provides a safe and secure environment by reducing risks such as phasing out obsolete unsupported components, reduce cybersecurity vulnerabilities, and alignment with industry best practices.

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Current Progress

BAS Replacement Progra	ım (2023) – Project # 23142
Completed (April 2023)	Budget Approval
Completed (July 2023)	Retain BAS Project Manager
In Progress Q1 2024 to Q4 2024	Engineering Consultant RFP for Audit+Design Tender Package for 6 facilities: Armadale CC, Fire Station 99, Museum Collections Bldg., Markham Village Library, Varley Gallery
In Progress Q1 2024 to Q3 2024	Retain Engineering Consultant for 8100 Warden replacement Contract and Admin (Design package finished)
Next Q1 2024 to Q3 2024	8100 Warden BAS replacement tender
BAS Replacement Progra	ım (2024) – This Capital Request
	Budget Approval
	Budget ApprovalRetain Engineering Consultant for replacement Contract and Admin for 6 facilities: Armadale CC, Fire Station 93, Fire Station 99, Museum Collections Bldg., Markham Village Library, Varley Gallery
	Retain Engineering Consultant for replacement Contract and Admin for 6 facilities: Armadale CC,





Background

A Building Automation System (BAS) is a management system comprising of an array of software and hardware components, that connects and consolidates building service equipment (i.e. HVAC or Heating Ventilation & Air Conditioning) and automates their function as defined by the building owner such as temperature levels and operation schedules. This enhances occupant well-being through comfort and indoor climate quality, and achieve efficiencies on facility operations through visibility on equipment performance and energy use by reducing excessive runtimes or overlaps.

Example composition of a BAS in a commercial or office facility, and controlled building equipment





Background, Benefits, and Outcomes

2014 ~ 2016 - Opportunity for optimization identified

- Conducted 'HVAC Centralization Study': It is recommended, enhances efficiency, reduces redundancy by <u>BAS centralization</u> of disparate HVAC control systems to a common platform
- Established "Control Centre" environment with a resource to manage & restructure BAS portfolio

2016 ~ 2017 – Established models and standards

- Centralizing BAS initiative transitioned to 'Corporate BAS' (aka 'CBAS') program
- Restored and/or implemented **remote accessibility to 7+ facilities**, repairs and emergency whole BAS replacements mitigated
- Established the Corporate BAS Design Standard, used ever since for BAS replacements and retrofits
- Utilized the model of 'Investigation > Audit > Implementation of recommendations > Commissioning' in each BAS replacement project

2018 ~ 2022 - Ready to scale up

- New BAS platform has brought enhanced functionality, accessibility, more user friendly experience for facility staff, leading to better service levels, and overall value
 - Allows for customizable operations and live changes to cater to building use changes i.e. Demand Response load shedding exercises, vaccine clinics, renovations type capital projects
 - In partnership with Recreation and S&AM, pandemic building curtailments in 2020 and 2021 yielded <u>\$5 million energy</u> <u>savings</u>, achieved by combination of BAS user induced actions, and physical equipment disabling by staff on site
- **BAS replacements through Lifecycle** (To-Date done: **7 replacements, 1 retrofit**. City has 20 sites with BAS, 3 left to replace after 2026). Experience and successes achieved through past incremental replacements, now ready for larger volume rollout.

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Why Should We Do This?

1) City's old central BAS platform has reached end of life, such as obsolete software and discontinuation of hardware controllers

- The OS (operating system) of ITS' BAS hosting server also has reached end of life. If approved, timing of recommended BAS replacements will coincide with ITS server upgrades/migration
- To address Cyber Security concerns with legacy platforms, especially "crown jewels" assets such as BAS that monitor and control buildings
 - It is recommended to upgrade/migrate such platforms to stay ahead of unforeseen risks (hacking, viruses, possible impacts to building damage and energy use)

2) The replacements align with the direction of the Corporate Energy Management Plan (CEMP, see Section 6.2 BAS)

- Benefits of a standardized common platform in centralized environment, staff resource optimization/efficiencies gained
- Reduce digital friction (new BAS are easier to access and more user friendly), reduce gap oversights (BAS provides better monitoring leading to better energy management efforts)



Why Should We Do this?

3) Recognition of past successes

- First project implemented under City's Corporate BAS Design Standards (Milliken Mills BAS) awarded IESO Most Innovative Project 2018
- 2018 NRCan Energy Star award Markham Civic Centre, first municipality in Canada to receive award
- Efficiencies and savings gained from recent HVAC equipment and BAS replacement project at Flato Theatre received the ClimateWise Building Challenge "Top Ranked Municipal Buildings Award"
- Received 2022 Mayor's Megawatt Challenge Recognition of Excellence Awards on operational initiatives/measures through use of BAS and operational awareness for energy reduction during pandemic

4) BAS energy saving strategy

- A properly controlled and commissioned system will result in occupant comfort and energy efficiencies
- All previous replacements have achieved energy saving targets
- BAS projects qualify for grants and incentive funding support over the next few years (FCM, Enbridge, SaveOnEnergy/IESO) Est \$55k minimum.



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Supporting Rationale

5) CBAS activities align with 'Digital Markham' initiative Activity: "Establish an operating model for the new technologies"

Activity: "Roll out new smart infrastructure and operationalize new processes to enhance automation"

Outcome: "An environment that is simpler and more responsive to business needs"

- City's past and on-going BAS projects demonstrates use of Intelligent Smart Building Technology. Utilization of interconnected sensors, dashboards, network connectivity, and generation of data to enhance facilities operations
- New BAS platforms reduces "digital friction" or processes and steps needed for accessibility

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Summary

Staff recommends proceeding with the Building Automation System (BAS) replacement program, as it will simultaneously mitigate risks as well as advance corporate initiatives.

1. BAS Replacement for 6 facilities in 2024 (Design work commencing Q1 2024, estimate completion Q3 2024)

*(Armadale CC, Fire Station 93, Fire Station 99, Museum Collections, Markham Village Library, Varley Art Gallery)

2. Begin the design and tender package of Cornell CC in 2024, for replacement in 2025

The work continues enhancement of facilities services and support for Departments such as Recreation and Culture. It reduces the landscape of redundant applications and associated service and resource requests to ITS. Modernizing legacy and end of support systems operating "crown jewel" assets aligns with Cyber Security best practices, and minimizes service disruption risks to City's flagship facilities.

No action would increase the likelihood of building service interruptions, impacts to occupant comfort and health, and difficulty in maintaining energy savings. Spending would still occur in scenarios where legacy systems need to be repaired and/or upgraded to maintain compatibility and functionality to adhere to modern requirements.

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Appendix



Cost Breakdown

- 1. \$990,500: BAS replacement for 6 facilities below
 - 1. Armadale CC (\$110,400)
 - 2. Fire Station 93 (\$132,600)
 - 3. Fire station 99 (\$117,300)
 - 4. Museum Collections Bldg. (\$158,500)
 - 5. Markham Village Library (\$255,000)
 - 6. Varley Art Gallery (\$216,700)
- 2. \$53,900: design, audit, and tender package of Cornell CC

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(MARKHAM	2024 PROJ	ECT FUND	ING REQUEST FO	DRM Nu	mber:	24092
Project Name: Building I	Envelone/Structu	ıral Review		Project C	ost: \$5	57,800
	•				Studies/Pilo	t Programs
Commission: <u>Corporate S</u>			1	Useful Life:	10 Pre	Approval: 🗌
Department: <u>Sustainabili</u> Project Mgr: <u>Michael Ry</u>		gement	Category:	Minor		
			Cost Validation	Internal peer	review	
	2		Requirement Validation:	Condition as	sessment	
DETAILED DESCRIPTIO			ITS Involved Project: Is	ITS Consulted	? 🗆	
This project budget is request ensure the safe condition and estimated 10 to 20 buildings components, to minimize Cit BUILDING MARKHAM'	sted once every two I maintenance of the every two years. The ty's risk associated w	years to review th e buildings. The re his program is a co with structural failu	view will be performed by a mprehensive review of the	Building Scie	ence Consulta	nt for an
			NOTES			
PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES \$57,800 - Building Envel	lope/Structural	Review of b	uildings
Cost/Quote:	56,781	0	List of buildings may cha			
Internal Charges:	0	0	Amount requested is con	sistent with 20	23 Life Cycl	Reserve Stud
External Consulting:	0	0	update.	Sistem with 20	25 Life Cyck	
Contingency %: 0	0	0				
Sub Total:	56,781	0				
HST Impact:	999	0				
Total Project Cost:	57,800	0				
SOURCE(S) OF FUNDING	G (\$)		Components			F 4s
<u>Funding Type</u>	<u>Budget</u>	Review			<u>TOTAI</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	57,800	57,800	0 0	0	57,800	0
TOTAL FUNDING	57,800				57,800	0
OPERATING BUDGET IN DCA/LIFE CYCLE DETAI	МРАСТ		rsonnel Revenues 0 \$0	Expenditure	es/(Revenues 60)
DCA			Amount in	Life C	vele	
Name		Ye				57 000
					t in Study:	57,800
					t Incl HST	57,800
				Year 1	n the study	2024
DCA and/or Life Cycle:	Explain if there is	a change in the yea	ar and/or cost:			

2024 PROJECT FUND	ING REQUEST FORM	Number:	24093
Project Name: Centennial C.C. HVAC Replacement	Ргојес	et Cost: Repair	\$329,300 /Replace
Commission: <u>Corporate Services</u> Department: <u>Sustainability and Asset Management</u> Project Mgr: Luke Hilts / Amanda Martin	Useful Life Category: Major		Pre Approval:
Ward(s): $_{CW}$ \square $_{1}$ \square $_{2}$ \square $_{3}$ \checkmark $_{4}$ \square $_{5}$ \square $_{6}$ \square $_{7}$ \square $_{8}$ \square DETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: Third pa Requirement Validation: Conditio ITS Involved Project: Is ITS Consu	n assessmer	

This project is to replace four (4) gas fired rooftop units with four (4) packaged heat pump rooftop units that will connect to the heating loop at Centennial C.C. The four (4) rooftop HVAC supply heating and air conditioning to the gymnasium, squash courts and fitness space. Centennial C.C. has been identified as a Net Zero facility and has completed an audit identifying key equipment to replace over the next 5 years. To help achieve the City's Net Zero targets, the proposed HVACs will be upgraded from gas-fired units to air or water-source heat pump units that aim to reduce greenhouse gas (GHG) emissions.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

329,300

PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting: Contingency %: 10 Sub Total: HST Impact: Total Project Cost:	2024 274,600 21,932 0 27,460 323,992 5,316 329,300	Future Phases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	condition asses warranted. Th updating HVA recent quote. 7 80% of project	4) gas fire rooto ssment of the H e replacement c C system. The a The City applied t costs; however eds to proceed r	VACs indic consist of ne amount requ d to Infrastr r, equipmen	ate that replace w duct work to the the second ucture Canada t has reached	cement is for the istent with a to fund end of life
SOURCE(S) OF FUNDING	<u> (\$)</u>		Compon	ents			E (
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	329,300	0	0	0	0	0	0

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

DCA/LIFE CYCLE DETAILS

TOTAL FUNDING

DCA	Amount in	Life Cycle	
Name	Year Amount Study	Amount in Study:	1,760,100
		Amount Incl HST	360,000
		Year in the study	2024
DCA and/or Life Cycle: Explain if the	ere is a change in the year and/or cost:		

0

0

MARKHAM 2024 PROJECT FUND	DING REQUEST FORM	Number:	24094
Project Name: Civic Centre Repair and/or Replacement	0	ect Cost:	\$1,740,000
		Repair	/Replace
Commission: Corporate Services	Useful Li	fe: 5	Pre Approval:
Department: Sustainability and Asset Management		IC. 5	
Project Mgr: Jason Ramsaran	Category: Major		
Ward(s): $CW \square 1 \square 2 \checkmark 3 \square 4 \square$	Cost Validation: Publish	ed guidelines	\$
	Requirement Validation: Condition	on assessmer	it
5 6 7 8			
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Cons	sulted?	

Program includes various life cycle works to maintain the Civic Centre Facility in a state of good repair and in alignment to the Asset Management Plan/Policy.

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES \$247,200 - Misc items including walls, fixtures, chairs, ceili
Cost/Quote:	1,709,876	0	railings
Internal Charges:	0	0	\$1,151,100 - Replace all 5 elevators including cabs & cylind
External Consulting:	0	0	\$331,500 - Consultant review (Exterior light review, Garage Design, Garage Roof, Washroom Design)
Contingency %: 0	0	0	\$10,200 - Washroom tiles grouting (1990-2010)
Sub Total:	1,709,876	0	Project includes internal charges.
HST Impact:	30,094	0	Amount is validated and consistent with the Life Cycle Reserved Study and based on the prior year annual condition assessme
Total Project Cost:	1,740,000	0	cost estimation.

SOURCE(S) OF FUNDING	(\$)		Сотро	nents			F 4
Funding Type	<u>Budget</u>	Repairs	Elevators	Consultant Review	Gr	routing TOTAL	<u>Future</u> Phases
Operating Funded Life Cycle	1,740,000	247,200	1,151,100	331,500	10,200	1,740,000	0
TOTAL FUNDING	1,740,000					1,740,000	0

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

DCA	Amount in	<u>Life Cycle</u>
ame	Year Amount Study	- Amount in Study: 1,872,600
		Amount Incl HST 1,740,000
		Year in the study 2024
CA and/or Life Cycle: Explain if there is		

Civic Centre - Painting

Ramp hand railing – railing in poor condition,	Procurement - Leak has been addressed but
need to repaint to prevent rusting and expensive	requires wall repair, patch work and repainting
replacement	ATTENTION ATTENTION ATTENTION Servellarse Ukleo Servellarse
York Room – refresh paint due to wall damage and wear.	LL NW Elevator Lobby - refresh paint due to wear.

Civic Centre - Ceiling Repair



Civic Centre – Interior Lighting



Civic Centre – Furniture



Civic Centre – Elevators 1,2,3,4,5







Civic Centre – Garage Roof, Consultant





2024 PROJECT FUNDING REQUEST FORM

Number: 24095

will create additional preventative measures aimed at reducing moisture in the pool tunnel and subsequent deterioration of pipe anch and struts holding the pool drain line. The installation of the exhaust fan and the overhead doors will occur in the basement corridor pool mechanical room at Cornell C.C. BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community PROJECT COSTS (S) 2024 Future Phases Cost/Quote: 196,500 0 Internal Charges: 0 0 Contingency %: 0 0 Sub Total: 196,500 0 HST Impact: 3,458 0 Total Project Cost: 200,000 0 HST Impact: 3,458 0 Coprating Funded Life Cycle 200,000 0 Operating Funded Life Cycle 200,000 0 Operating Funded Life Cycle 200,000 0 OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) S0 SO \$0 \$0 \$0 DCA/LIFE CYCLE DETAILS DCA Name Year Amount in Study: 334,40 Amount in CHST	Commission: Corporate Services Repair/Replace Department: Sustainability and Asset Management Useful Life: 20 Pre Appro Project Mgr: Colby Brygidyr / Luke Hilts Category: Minor Ward(s): Cw 1 2 3 4 Condition: Internal peer review Sector AllLED DESCRIPTION (SCOPE OF PROJECT): ITS Involved Project: Is ITS Consulted? ITS Consulted? Its Its Consulted?	oval: □
Department: Sustainability and Asset Management Useful Life: 20 Pre Approval: Project Mgr: Colby Brygidyr / Luke Hilts Category: Minor Ward(s): CW 1 2 3 4 Stor 6 7 8 Requirement Validation: Condition assessment DEFTAILED DESCRIPTION (SCOPE OF PROJECT): ITS Involved Project: Is ITS Consulted? Image and explain project. In consultantom with Sustainability and Asset Management, it was recommended to install additional exbaust fam and explain project. In consultation with Sustainability and Asset Management, it was recommended to install additional exbaust fam and expoint project. In consultation with Sustainability and Asset Management. The installation of the exhaust fam and the overhead doors will occur in the basement corridor projool mechanical cons at Cornell C.C. BULDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community PROJECT COSTS (S) 2024 Future Phases Cost/Quote: 196.500 0 Internal Consulting: 0 0 Contingency %: 0 0 0 Sub Total: 196.500 0 HST Impact: 3.458 0 Total Project Cost: 200.000 0 0 SOURCE(S) OF FUNDING (S)	Useful Life: 20Pre ApproDepartment:Sustainability and Asset ManagementCategory:MinorProject Mgr:Colby Brygidyr / Luke HiltsCost Validation:Internal peer reviewWard(s):CW 1 2 3 4 $5 \checkmark 6$ 7 8 Requirement Validation:Condition assessmentITS Involved Project: Is ITS Consulted?	oval:
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Inconcer (COSTS(IS) 2024 Future Phases Cost/Quote: 196,500 0 Internal Charges: 0 0 External Consulting: 0 0 Contingency %: 0 0 Sub Total: 196,500 0 HST Impact: 3,458 0 SOURCE(S) OF FUNDING (S) Components Funding Type SOURCE(S) OF FUNDING (S) Components Funding Type Source Life Cycle 200,000 0 0 Operating Funded Life Cycle 200,000 0 0 0 OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) S0 S0 S0 S0 \$0 \$0 DCA Year Amount in Study Amount in Study: 834,40 Manount Instudy: 834,40 Amount Instudy: 834,40	PROJECT COSTS (E) 2024 E (D) NOTES	
Internal Charges: 0 0 External Consulting: 0 0 Contingency %: 0 0 0 Sub Total: 196,500 0 HST Impact: 3,458 0 Total Project Cost: 200,000 0 SOURCE(S) OF FUNDING (S) Components Funding Type Budget TOTAL Operating Funded Life Cycle 200,000 0 0 0 OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) S0 S0 S0 S0 S0 S0 DCA Year Amount in Life Cycle Amount in Study: 834,40 Amount Incl HST 200,000 200,000 20,000 20,000 10	Future Phases As per consultant and internal peer review, an exhaust fan	
Internal Consulting: 0 0 External Consulting: 0 0 Contingency %: 0 0 0 Sub Total: 196,500 0 HST Impact: 3,458 0 Total Project Cost: 200,000 0 SOURCE(S) OF FUNDING (S) Components Funding Type Budget TOTAL Phase 0 0 Operating Funded Life Cycle 200,000 0 0 Operating Funded Life Cycle 200,000 0 0 0 Operating Funded Life Cycle 200,000 0 0 0 0 OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) S0 S0 S0 \$0 \$0 \$0 DCA Vear Amount Study Amount in Study: 834,40 Amount Incl HST 200,000 200,000 20,000 \$0,00 \$0,00		
External Consulting: 0 0 Contingency %: 0 0 0 Sub Total: 196,500 0 HST Impact: 3,458 0 Total Project Cost: 200,000 0 SOURCE(S) OF FUNDING (S) Components Funding Type Budget TOTAL Phase 200,000 0 0 Operating Funded Life Cycle 200,000 0 0 0 Operating Funded Life Cycle 200,000 0 0 0 0 OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) S0 S0 S0 S0 S0 S0 DCA Year Amount in Life Cycle Amount in Study: 834,400 Amount Inel HST 200,000 200,000 200,000 S0 S0 S0	consistent with an internal peer review conducted by Susta	
Sub Total: 196,500 0 HST Impact: 3,458 0 Total Project Cost: 200,000 0 SOURCE(S) OF FUNDING (S) Components Future Phase Funding Type Budget TOTAL Operating Funded Life Cycle 200,000 0 0 0 Operating Funded Life Cycle 200,000 0 0 0 0 OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) S0 S0 S0 \$0 \$0 \$0 \$0 DCA Year Amount in Life Cycle Amount in Study: 834,400 Amount Inel HST 200,000 200,000 200,000 \$334,400	External Consulting: 0 0 and Asset Management.	
HST Impact: 3,458 0 Total Project Cost: 200,000 0 SOURCE(S) OF FUNDING (S) Components Futur Funding Type Budget TOTAL Phase Operating Funded Life Cycle 200,000 0 0 0 0 0 0 TOTAL FUNDING 200,000 0 0 0 0 0 0 OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) S0 S0 S0 S0 S0 DCA/LIFE CYCLE DETAILS DCA Name Year Amount in Study Amount in Study: 834,400 Amount in Study: 834,400 Amount In CH HST 200,000		
Total Project Cost: 200,000 0 SOURCE(S) OF FUNDING (S) Components Future Phase Funding Type Budget TOTAL Plase Operating Funded Life Cycle 200,000 0 0 0 0 Operating Funded Life Cycle 200,000 0 0 0 0 0 Operating Funded Life Cycle 200,000 0 0 0 0 0 0 0 Operating Funded Life Cycle 200,000 0 <th< td=""><td></td><td></td></th<>		
SOURCE(S) OF FUNDING (\$) Components Funding Type Budget TOTAL Future Phase Operating Funded Life Cycle 200,000 0 0 0 0 TOTAL FUNDING 200,000 0 0 0 0 0 OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) \$0 \$0 \$0 \$0 \$0 \$0 \$0 DCA/LIFE CYCLE DETAILS Year Amount in Study: 834,400 Amount in Study: \$34,400 Amount Incl HST 200,000		
Funding Type Budget TOTAL Future Phase Operating Funded Life Cycle 200,000 0 0 0 0 TOTAL FUNDING 200,000 0 0 0 0 0 OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) \$0 \$0 \$0 \$0 \$0 \$0 \$0 DCA/LIFE CYCLE DETAILS Year Amount in Study: 834,400 Mame Year Amount in Study: 834,400 Amount Incl HST 200,000 200,000 200,000	Total Project Cost: 200,000 0	
Funding Type Budget TOTAL Phase Operating Funded Life Cycle 200,000 0<	SOURCE(S) OF FUNDING (\$) Components	F4
TOTAL FUNDING 200,000 0 OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) \$0 \$0 \$0 \$0 \$0 \$0 DCA/LIFE CYCLE DETAILS Vear Amount in Study Life Cycle Mame Year Year Amount in Study: \$34,400 Amount Incl HST 200,000 200,000 \$300 \$34,400		
OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) \$0 \$0 \$0 \$0 \$0 DCA/LIFE CYCLE DETAILS Year Amount in Study Life Cycle Mame Year Amount Study \$34,400 Amount Incl HST 200,000		Phases
OPERATING BUDGET IMPACT Personnel Non Personnel Revenues Expenditures/(Revenues) \$0 \$0 \$0 \$0 \$0 DCA/LIFE CYCLE DETAILS Vear Amount in Study Life Cycle Mame Year Amount Study \$34,400 Amount Incl HST 200,000	Funding Type Budget TOTAL	<u>Phases</u>
DCA/LIFE CYCLE DETAILS Amount in Study Life Cycle Mame Year Amount in Study Life Cycle Amount in Study: 834,400 Amount Incl HST 200,000	Funding Type Budget TOTAL Dperating Funded Life Cycle 200,000 0 0 0 0	
\$0 \$0 \$0 \$0 DCA/LIFE CYCLE DETAILS Amount in Study Life Cycle DCA Year Amount in Study Life Cycle Amount in Study: 834,400 Amount Incl HST 200,000	Funding Type Budget TOTAL Operating Funded Life Cycle 200,000 0 0 0 0	
DCA Year Amount in Study Life Cycle Name Year Amount in Study: 834,400 Amount Incl HST 200,000	Funding Type Budget TOTAL I Operating Funded Life Cycle 200,000 0	
Name Year Amount Study Manuel Year Amount Study Amount in Study: 834,400 Amount Incl HST 200,000	Funding Type Budget TOTAL I Dperating Funded Life Cycle 200,000 0	
Name Year Amount Study Amount in Study: 834,400 Amount Incl HST 200,000	Funding TypeBudgetTOTALIDperating Funded Life Cycle200,0000000TOTAL FUNDING200,00000000OPERATING BUDGET IMPACTPersonnelNon PersonnelRevenuesExpenditures/(Revenues)\$0\$0\$0\$0\$0\$0	
Amount Incl HST 200,000	Funding TypeBudgetTOTALIDperating Funded Life Cycle200,0000000TOTAL FUNDING200,00000000OPERATING BUDGET IMPACTPersonnelNon PersonnelRevenuesExpenditures/(Revenues)\$0\$0\$0\$0\$0\$0DCA/LIFE CYCLE DETAILSDG4DG4DG4DG4	
	Funding TypeBudgetTOTALIDeperating Funded Life Cycle200,0000000TOTAL FUNDING200,00000000OPERATING BUDGET IMPACTPersonnelNon PersonnelRevenuesExpenditures/(Revenues)\$0\$0\$0\$0\$0\$0DCA/LIFE CYCLE DETAILSYearAmount inLife Cycle	
Year in the study 202	Funding TypeBudgetTOTALIOperating Funded Life Cycle200,0000000TOTAL FUNDING200,00000000OPERATING BUDGET IMPACTPersonnelNon PersonnelRevenuesExpenditures/(Revenues)\$0\$0\$0\$0\$0\$0DCA/LIFE CYCLE DETAILSYearAmount in StudyLife Cycle Amount in Study:83	34,400
	Funding Type Budget TOTAL I Operating Funded Life Cycle 200,000 0 0 0 0 TOTAL FUNDING 200,000 0 </td <td>34,400 00,000</td>	34,400 00,000
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:	Funding Type Budget TOTAL I Operating Funded Life Cycle 200,000 0 0 0 0 TOTAL FUNDING 200,000 0 </td <td>34,400</td>	34,400
	Funding Type Budget TOTAL I Operating Funded Life Cycle 200,000 0	34,400
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	Funding Type Budget TOTAL I Operating Funded Life Cycle 200,000 0	34,400 00,000
	Funding Type Budget TOTAL I Operating Funded Life Cycle 200,000 0	34,400 00,000

MARKHAM

2024 PROJECT FUNI	DING REQUEST FORM Number:	24096
Project Name: Corporate Accommodations	Project Cost:	\$262,600
	Repai	r/Replace
Commission: Corporate Services	Useful Life: 15	Pre Approval:
Department: <u>Sustainability and Asset Management</u> Project Mgr: Renee England /Imran Hyat	Category: Major	r të rippio tuli
Ward(s): 1 □ _ 2 □ _ 3 □ _ 4 □	Cost Validation: Internal peer review	V
	Requirement Validation: Other(specify in No	otes)
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box	
itywide space planning program optimizes workspaces to enha	nce productivity and health and wellness for City D	Departments.

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES \$262,600 - Citywide space planning and office changes. Adaptatic
Cost/Quote:	258,100	0	of office spaces based on post-COVID business model.
Internal Charges:	0	0	
External Consulting:	0	0	Amount is validated and consistent with the Life Cycle Reserve Study and based on the prior year annual condition assessment and
Contingency %: 0	0	0	cost estimation.
Sub Total:	258,100	0	
HST Impact:	4,543	0	
Total Project Cost:	262,600	0	

SOURCE(S) OF FUNDING (\$)			Compone	ents			F -4
Funding Type	<u>Budget</u>	Citywide Space Planning Program				<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	262,600	262,600	0	0	0	262,600	0
TOTAL FUNDING	262,600				=	262,600	0

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

DCA/LIFE CYCLE DETAILS

<u>DCA</u>	V. A. A.	Amount in	Life Cycle		
Name	Year Amount	Study	Amount in Study:	262,600	
			Amount Incl HST	262,600	
			Year in the study	2024	
DCA and/or Life Cycle: Explain i	f there is a change in the year and/or cost:		Tear in the study	202	
DCA and/or Life Cycle: Explain i	f there is a change in the year and/or cost:				

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2024 PROJECT FUND	OING REQUEST FO	PRM	Number:	24097
Project Name: Corporate Asset Management		Proje	ct Cost: 	\$279,800
Commission: <u>Corporate Services</u> Department: <u>Sustainability and Asset Management</u> Project Mgr: Denny Boskovski	U Category:	Jseful Life Major		Pre Approval:
Ward(s): $CW \swarrow 1 \odot 2 \odot 3 \odot 4 \odot$ $5 \odot 6 \odot 7 \odot 8 \odot$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: Requirement Validation: ITS Involved Project: Is I	Legislati	ve complian	ce

Consulting services to develop and draft the City's regulatory asset management plan and financial strategy due on July 1, 2025. This is necessary to satisfy the City's requirements under O. Reg. 588/17, and; to continue the receipt of funds from the Canada Community Building Fund (formerly Gas Tax), and; to qualify for future grant fund opportunities, and will address most of the Auditor General's requirements.

BUILDING MARKHAM'S FUTURE TOGETHER: Stewardship of Money & Resources

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This project will develop the frameworks for: outcome-based levels
Cost/Quote:	0	0	of service, and; performance management framework, and; a risk
Internal Charges:	0	0	management framework. The 2025 Asset Management Plan and Financial Strategy will compile, develop, document and draft the
External Consulting:	250,000	0	State of Infrastructure, current levels of service and resulting asset
Contingency %: 10	25,000	0	performance. It will also assess: risks, sustainability and climate
Sub Total:	275,000	0	change adaptation, impact of growth and proposed levels of service.
HST Impact:	4,840	0	Financial requirements and a financial strategy will be developed to inform sustainable and appropriate levels of service.
Total Project Cost:	279,800	0	inform susuandole and appropriate revers of service.

SOURCE(S) OF FUNDING (\$)

Funding Type	Budget	Condition Assessment Framework &Lucity Integration				TOTAL	<u>Future</u> Phases
Operating Funded Life Cycle	72,748	72,748	0	0	0	72,748	0
Waterworks	207,052	207,052	0	0	0	207,052	0
TOTAL FUNDING	279,800				-	279,800	0

Components

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

DCA Name	Year	Amount	Amount in Study	Life Cycle Amount in Study:
				Amount Incl HST
				Year in the study 2024

ING REQUEST FOR	NI NI	umber:	24098
n Upgrades	Project (Cost:	\$359,000
10		Repair	/Replace
Use	eful Life	7	Pre Approval:
Category: M	lajor	·	
Cost Validation: In	nternal pee	er review	
·		-	ce
ITS Involved Project: Is ITS	S Consulte	d?	
	n Upgrades Use Category: M Cost Validation: I Requirement Validation: L	n Upgrades Useful Life: Category: Major Cost Validation: Internal pee Requirement Validation: Legislative	n Upgrades Number: Project Cost: Repair/ Useful Life: 7

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

audits, access control, CCTV, gates, policy protocol and procedure development and training.

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES \$359,000 – City Wide Corporate Security replacements ar
Cost/Quote:	352,830	0	enhancements.
Internal Charges:	0	0	Project Scope may be adjusted to meet/comply with the ov corporate security policy, standards, guidelines and goals.
External Consulting:	0	0	expecting an increasing trend in security expenditures base
Contingency %: 0	0	0	procurement prices.
Sub Total:	352,830	0	Project includes internal charges.
HST Impact:	6,210	0	Amount is validated and consistent with the Life Cycle Res Study and based on the prior year annual condition assessm
Total Project Cost:	359,000	0	cost estimation.

SOURCE(S) OF FUNDING (\$)			Compone	ents			F
Funding Type	<u>Budget</u>	Citywide Security training				<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	359,000	359,000	0	0	0	359,000	0
TOTAL FUNDING =	359,000				Ξ	359,000	0

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

DCA	Amount in	<u>Life Cycle</u>	
Name	Year Amount Study	Amount in Study:	634,500
		Amount Incl HST	359,000
		Year in the study	2024
DCA and/or Life Cycle: Explain if there is a	a change in the year and/or cost:		

2024 PROJECT FUNI	DING REQUEST FORM Number: 24099
Project Name: Designated Substances Management	Project Cost: \$10,200
	Repair/Replace
Commission: Corporate Services	Useful Life: 2 Pre Approval:
Department: Sustainability and Asset Management	
Project Mgr: Vicky Chan	Category: Minor
Ward(s): $CW \bigvee 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Internal peer review
	Requirement Validation: Other(specify in Notes)
5 6 7 8	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?

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This project includes review of identified Asbestos Containing Materials (ACMs) at 18 City owned facilities and update existing Asbestos Management Plans. This program will also include management (including testing, analysis, planning and abatement) of any other designated substances at City facilities and training for facility staff on Asbestos management. Ontario Regulation 278/05 (Designated Substance - Asbestos on construction projects and in buildings and repair operations) requires all building owners to have ongoing Asbestos Management programs at facilities where Asbestos Containing Materials (ACMs) are identified. Project supports PSAB 3280 Asset Retirement Obligation reporting through managing/abating designated substances in City facilities.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES \$10,200 - Designated Substance Management to maintain a healthy
Cost/Quote:	10,024	0	and safe environment within City owned facilities.
Internal Charges:	0	0	
External Consulting:	0	0	Amount is validated and consistent with the Life Cycle Reserve Study and based on the prior year annual condition assessment and
Contingency %: 0	0	0	cost estimation.
Sub Total:	10,024	0	
HST Impact:	176	0	
Total Project Cost:	10,200	0	

SOURCE(S) OF FUNDING (\$)

Components

<u>Funding Type</u>	<u>Budget</u>	Designated Substances Management				<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	10,200	10,200	0	0	0	10,200	0
TOTAL FUNDING	10,200				=	10,200	0

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

<u>DCA</u>	Amount in	Life Cycle
Name	Year Amount Study	Amount in Study: 10,200
		Amount Incl HST 10,200
		Year in the study 2024
DCA and/or Life Cycle: Explain if t	here is a change in the year and/or cost:	
DCA and/or Life Cycle: Explain if t	here is a change in the year and/or cost:	

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MARKHAM 2024 PROJECT FUND	DING REQUEST FORM Number:	24100
Project Name: Facility Energy Management Program	Project Cost:	\$132,300
	Studie	es/Pilot Programs
Commission: Corporate Services	Useful Life: 15	Pre Approval:
Department: Sustainability and Asset Management		The Approval. —
Project Mgr: Amanda Martin	Category: Major	
Ward(s): $CW \swarrow 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Internal peer review	7
	Requirement Validation: Legislative compliant	nce
5 6 7 8		
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box	

Funding to support citywide energy conservation & net-zero initiatives as well as operational service & improvements to building systems. Support encompasses facility retrofits, awareness & training programs, feasibility studies, technical & operational support, and building systems planning, standardization, and optimization, all adhering to the Corporate Energy Management Plan and Corporate Building Automation System Design Standards. This project also supports new incentive applications (at least \$245k planned) for netzero and BAS projects, and other related services including measurement, verification, and reporting of energy/GHG/cost-savings, inclusive of projects identified in previous (2022/2023) net-zero capital budget requests (Project #'s 22064, 23145, and 23164 with incentives of over \$5.8M secured in principle and greater than \$7M utility cost savings forecasted over a 30-year term).

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Project includes internal charges. The 18-time award
Cost/Quote:	130,000	0	Facility Energy Management program provides additi
Internal Charges:	0	0	intangible benefits through improving operational exce
External Consulting:	0	0	measurement and verification services, grant applicatio and developing and sharing best practices.
Contingency %: 0	0	0	The program supports Council endorsed goal to achieve
Sub Total:	130,000	0	2050 as dictated by Municipal Energy Plan (MEP) and
HST Impact:	2,288	0	Energy Management Plan (CEMP), which is legislated t O.Reg 25/23.
Total Project Cost:	132,300	0	Source: Markham Energy Conservation Office (MECO)

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING (\$)			Compone	ents			E4
Funding Type	<u>Budget</u>	Energy Conservation Projects				<u>TOTAL</u>	<u>Future</u> Phases
Other Internal	132,300	132,300	0	0	0	132,300	0
TOTAL FUNDING	132,300				-	132,300	0
OPERATING BUDGET IMPAC	T Per	rsonnel Non Pers	sonnel Reve	enues	Expenditures	(Revenues)	

\$0

\$0

\$0 \$0

		<u>Life Cycle</u>	
Year Amount	Study	Amount in Study:	
		Amount Incl HST	1
		Year in the study]
	A Year Amount		Year Amount Study Amount in Study: Amount Incl HST

MARKHAM 2024 PROJECT FUNI	DING REQUEST FO	RM Number	: 24101
Project Name: Fire Facilities Repair and/or Replaceme	ant Projects	Project Cost:	\$327,600
		Repa	ir/Replace
Commission: Corporate Services	U	Jseful Life: 15	Pre Approval:
Department: <u>Sustainability and Asset Management</u> Project Mgr: Jason Vasilaki	Category:	Major	
Ward(s): CW \checkmark 1 \square 2 \square 3 \square 4 \square	Cost Validation:	Published guideline	es
5 6 7 8	Requirement Validation:	Condition assessme	ent
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulted? \Box	
Program includes various life cycle works to maintain the fire fa Management Plan/Policy. Funding request is based on historical	0 1	U	

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BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES \$57.320 - FS	5 91 & 92 caulk	ting, painting, fixtures, el	ectrical.
Cost/Quote:	321,944	0	mechanical		0.1 0.	-
Internal Charges:	0	0		FS 94, 95 & 96	flooring, millwork, caulk	ing, electrical,
External Consulting:	0	0	mechanical \$70.380 - FS	5 97, 98 HVAC		
Contingency %: 0	0	0	\$20,400 - Fu	· ·	es & Equipment replacem	ents (1984-
Sub Total:	321,944	0	2021)			
HST Impact:	5,666	0	Amount is va	ides internal cha alidated and co	arges. nsistent with the Life Cyc	le Reserve
Total Project Cost:	327,600	0		used on the prio	r year annual condition a	
SOURCE(S) OF FUNDING	<u> (\$)</u>		Compo			F (
Funding Type	Budget	<u>FS 91 & 92</u>	<u>FS 94, 95 & 96</u>	<u>FS 97 & 98</u>	<u>Eurniture</u> TOTAL	<u>Future</u> Phases
Operating Funded Life Cycle	327,600	57,320	179,500	70,380	20,400 327,600	0
TOTAL FUNDING	327,600				327,600	0
OPERATING BUDGET IN	APACT Per	sonnel Non Pe	rsonnel R	evenues I	Expenditures/(Revenues)
OI ERAIING BUDGET IF	MI ACT	\$0 \$	0	\$0	\$0	
DCA/LIFE CYCLE DETA	ILS					
<u>DCA</u>				Amount in	<u>Life Cycle</u>	
Name		Yea	ar Amount	Study	Amount in Study:	395,500
					Amount Incl HST	327,600
					Year in the study	2024
DCA and/or Life Cycle:	Explain if there is	a change in the yea	r and/or cost:			

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2024 PROJECT FUNDING REQUEST FORM ARKHAM Number: 24102 **Project Cost:** \$30,600 Project Name: Fire Systems Maintenance at Various City Facilities Repair/Replace Commission: Corporate Services Pre Approval: Useful Life: 1 Department: Sustainability and Asset Management Category: Minor Project Mgr: Dana Honsberger Cost Validation: Recent awards Ward(s): CW ☑ 1 □ 2 □ 3 □ 4 □ Requirement Validation: Condition assessment 5 6 7 8 ITS Involved Project: Is ITS Consulted? **DETAILED DESCRIPTION (SCOPE OF PROJECT):** Maintenance of Fire & Sprinkler systems at various City facilities that is outside of the annual maintenance program. This maintenance is legislated under Ontario Fire Code (OFC). Annual maintenance through operating budget includes items such as fire/smoke sensor testing, extinguisher inspection, fire pump inspection, etc. Items under this program include non-annual tasks (tasks that are required to happen every 3 years, or 5 years or 15 years) such as dry/wet systems piping obstruction inspection, standpipe hydrostatic test, etc. BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People NOTES **PROJECT COSTS (\$)** 2024 **Future Phases** \$30,600 - Fire system maintenance across all locations. Cost/Quote: 30.071 0 Project includes internal charges. 0 0 Internal Charges: Amount is validated and consistent with the Life Cycle Reserve 0 External Consulting: 0 Study and based on the prior year annual condition assessment and Contingency %: 0 0 0 cost estimation. Sub Total: 30,071 0 0 HST Impact: 529 **Total Project Cost:** 30,600 0 SOURCE(S) OF FUNDING (\$) **Components** Future Fire System **Funding Type** Phases TOTAL Budget Maintenance Operating Funded Life Cycle 30,600 0 0 0 30,600 0 30,600 TOTAL FUNDING 30,600 0 30,600 Personnel Non Personnel Revenues **Expenditures**/(Revenues) **OPERATING BUDGET IMPACT** \$0 \$0 \$0 \$0 **DCA/LIFE CYCLE DETAILS** DCA Amount in Life Cycle Year Amount Name Study Amount in Study: 39.800 Amount Incl HST 30.600 2024 Year in the study DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

MARKHAM 2024 PROJECT FUNI	DING REQUEST FORM Number: 24103
	Project Cost: \$168,100
Project Name: Library Facilities Repair and/or Replac	ement Projects Repair/Replace
Commission: Corporate Services Department: Sustainability and Asset Management	Useful Life: 10 Pre Approval:
Project Mgr: Jason Vasilaki	Category: Minor
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Internal peer review
5 6 7 8	Requirement Validation: Condition assessment
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

Cost/Quote:165,1930Internal Charges:00External Consulting:00Contingency %: 000Sub Total:165,1930	T COSTS (\$) <u>2024</u>	NOTES \$35,500 - Markham Village Library - metal siding, painting,
External Consulting: 0 0 0 \$123,930 - Unionville Library - painting & HV Contingency %: 0 0 0 (1983-2019) Sub Total: 165,193 0 Project includes internal charges.	Cost/Quote: 165,193	
External Consulting: 0 0 0 Contingency %: 0 0 0 0 Sub Total: 165.193 0 0	iternal Charges: 0	
Contingency %: 0 0 Project includes internal charges. Sub Total: 165.193 0	rnal Consulting: 0	
	ontingency %: 0 0	
	Sub Total: 165,193	
	HST Impact: 2,907	0Amount is validated and consistent with the Life Cycle ReserveStudy and based on the prior year annual condition assessment a
Total Project Cost:168,1000cost estimation.	l Project Cost: 168,100	

SOURCE(S) OF FUNDING (\$)			Compo	nents			F 4
<u>Funding Type</u>	<u>Budget</u>	<u>Markham Library</u>	<u>Thornhill Village</u> <u>Library</u>	Unionville Library		<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	168,100	35,500	8,670	123,930	0	168,100	0
TOTAL FUNDING	168,100				=	168,100	0

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

DCA	Amount in	n <u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 245,200
		Amount Incl HST 168,100
		Year in the study 2024
DCA and/or Life Cycle: Explain if there is a chang	ge in the year and/or cost:	

MARKHAM	2024 PRO	DJECT FUNDI	NG REQUEST FOI	RM N	umber:	24104
Project Name: Municipal	l Building Bac	kflow Prevention -	Annual Testing	Project	-	\$52,200 /Replace
Commission: <u>Corporate S</u> Department: <u>Sustainabili</u> Project Mgr: <u>Jason Vasila</u>	ty and Asset Mar	nagement	Category:		1	Pre Approval:
5 🗆 ETAILED DESCRIPTIO	N (SCOPE OF	PROJECT):	Cost Validation: Requirement Validation: ITS Involved Project: Is IT completed, annually as outlir	Legislative	complian ed?	
BUILDING MARKHAM'S	S FUTURE TO	GETHER: Safe & S	Sustainable Community NOTES	a 1 ·	11	1
Cost/Quote:	51,297	0	\$52,200 - Testing all backf facilities	flow device	s installed	l within Markham
Internal Charges: External Consulting: Contingency %: 0	0 0 0	0 0 0	Amount is validated and co Study and based on the pri- cost estimation.			
Sub Total:	51,297	0				

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

Components

0

0

0

0

Testing

52,200

DCA/LIFE CYCLE DETAILS

HST Impact:

Total Project Cost:

Operating Funded Life Cycle

TOTAL FUNDING

Funding Type

SOURCE(S) OF FUNDING (\$)

903

Budget

52,200

52,200

52,200

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 52,200
		Amount Incl HST 52,200
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cost:	Year in the study 2024

<u>Future</u>

Phases

0

0

TOTAL

52,200

52,200

0

MARKHAM			Project Cost: \$41,100
Project Name: Municipa	l Building Bac	kflow Prevention	Survey Repair/Replace
Commission: Corporate S Department: <u>Sustainabil</u> Project Mgr: <u>Jason Vasi</u>	ity and Asset Mar	nagement	Useful Life: 5 Pre Approval: Category: Minor
	2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		Cost Validation: Recent awards Requirement Validation: Legislative compliance ITS Involved Project: Is ITS Consulted?
irvey and testing of water	backflow devices	for City facilities to	align with City's backflow prevention By-law 2007-142.
UILDING MARKHAM	'S FUTURE TO	GETHER: Safe &	align with City's backflow prevention By-law 2007-142. Sustainable Community NOTES
UILDING MARKHAM ROJECT COSTS (\$)	'S FUTURE TO <u>2024</u>	GETHER: Safe & <u>Future Phases</u>	Sustainable Community NOTES Survey of all facilities for backflow devices must be done once
UILDING MARKHAM	'S FUTURE TO	GETHER: Safe &	Sustainable Community
UILDING MARKHAM ROJECT COSTS (\$) Cost/Quote:	2024 40,389	GETHER: Safe & <u>Future Phases</u> 0	Sustainable Community NOTES Survey of all facilities for backflow devices must be done once every 5 years, last survey was in 2019. Testing of all installed
UILDING MARKHAM ROJECT COSTS (\$) Cost/Quote: Internal Charges:	2024 40,389 0	GETHER: Safe & <u>Future Phases</u> 0 0	Sustainable Community NOTES Survey of all facilities for backflow devices must be done once every 5 years, last survey was in 2019. Testing of all installed
UILDING MARKHAM ROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting:	2024 40,389 0 0	GETHER: Safe & Future Phases 0 0 0 0	Sustainable Community NOTES Survey of all facilities for backflow devices must be done once every 5 years, last survey was in 2019. Testing of all installed

SOURCE(S) OF FUNDING (\$)			Compon	ents			F4
Funding Type	<u>Budget</u>	Survey				TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	41,100	41,100	0	0	0	41,100	0
TOTAL FUNDING	41,100				-	41,100	0

0

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

DCA/LIFE CYCLE DETAILS

Total Project Cost:

41,100

<u>DCA</u>	Amount in	Life Cycle	
Name	Year Amount Study	Amount in Study:	41,100
		Amount Incl HST	41,100
		Year in the study	2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:		

2024 PROJECT FUNDING REQUEST FORM

MARKHAM	2027 I NUJ		NG REQUEST FORM	Number:	24106
Duriant Name: M	V · D · I I		Р	roject Cost:	\$347,200
Project Name: Museum -	- Various Buildi	ngs		Repair	/Replace
Commission: Corporate S	Services		Usef	1 Life: 0	Pre Approval:
Department: Sustainabili	ity and Asset Mana	gement			Pre Approvar:
Project Mgr: Vicky Char	n / Andrea Carpent	er	Category: Maj		
Ward(s): CW 🖌 1	2 3 4		Cost Validation: Inte	rnal peer review	
	6 7 8		Requirement Validation: Visu	ual inspection	
DETAILED DESCRIPTIO		ROJECT):	ITS Involved Project: Is ITS C	Consulted? \Box	
uilding maintenance of sele	ected buildings to 1	naintain good repai	r of all Museum structures, based	on condition ins	spection.
PROJECT COSTS (\$)	2024	Future Phases	NOTES		
Cost/Quote:	341,150	<u>1 uture 1 nases</u> 0	\$20,320 - Annual pest manage		
-		-	\$20,980 - Reception Centre & \$305,900 - General includes B		
Internal Charges:	0	0	Burkholder Carriage Building		
External Consulting: Contingency %: 0	0 0	0	Shed, Mini train & Mount Joy		
			Project includes internal charge Amount is validated and consist		
Sub Total:	341,150	0		stent with the Ll	fa Cucla Reserva
HST Impact:	6.004		Study and based on the prior v	ear annual condi	
Total Project Cost:	6,004	0	Study and based on the prior years of the stimation.	ear annual condi	
	6,004 347,200			ear annual condi	
= SOURCE(S) OF FUNDING	347,200	0		ear annual condi	

Funding Type	<u>Budget</u>	Reception	Pest Control	General		<u>TOTAL</u>	<u>Phases</u>
Operating Funded Life Cycle	347,200	20,980	20,320	305,900	0	347,200	0
TOTAL FUNDING	347,200				-	347,200	0

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

DCA	Amount in	<u>Life Cycle</u>	
Name	Year Amount Study	Amount in Study:	347,500
		Amount Incl HST	347,200
		Year in the study	202
OCA and/or Life Cycle: Expla	in if there is a change in the year and/or cost:	Year in the study	202
OCA and/or Life Cycle: Expla	in if there is a change in the year and/or cost:	Year in the study	2024
DCA and/or Life Cycle: Expla	in if there is a change in the year and/or cost:	Year in the study	202

MARKHAM 2024 PROJECT FUND	ING REQUEST FORM Number: 24107
Project Name: Operations & Parks Facilities Repair/Re	Project Cost: \$830,900 placement Projects
	Repair/Replace
Commission: Corporate Services	Useful Life: 15 Pre Approval:
Department: Sustainability and Asset Management	
Project Mgr: Dana Honsberger	Category: Major
Ward(s): $CW \bigvee 1 \bigcirc 2 \bigcirc 3 \bigcirc 4 \bigcirc$	Cost Validation: Internal peer review
	Requirement Validation: Visual inspection
5 6 7 8	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?

Program includes various life cycle works to maintain the Operations Facilities which includes operations admin buildings, park washrooms, yards and shops in a state of good repair and in alignment to the Asset Management Plan/Policy. Amount is validated and consistent with the Life Cycle Reserve Study and based on the prior year annual condition assessment and cost estimation.

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	2024	Future Phases
Cost/Quote:	816,539	0
Internal Charges:	0	0
External Consulting:	0	0
Contingency %: 0	0	0
Sub Total:	816,539	0
HST Impact:	14,371	0
Total Project Cost:	830,900	0

SOURCE(S) OF FUNDING (\$)			Сотро	nents			F
Funding Type	Budget	Answell Park etc	Greenhouse, Milne Park washroom etc	<u>555 Miller/main</u> <u>bldg/sign shop</u>		<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	830,900	187,750	150,960	492,200	0	830,910	0
TOTAL FUNDING	830,900				=	830,910	0

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

<u>DCA</u>	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 1,084,500
		Amount Incl HST 830,900
		Year in the study 2024
ICA and/or Life Cycle: Explain 11 the		
CA and/or Life Cycle: Explain if the	ie is a change in all year and of cost.	
OCA and/or Life Cycle: Explain if the		


Miller Works Yard- Main Building



Vehicle wash cleaning fluid mixing equipment (past life cycle)

<image/>	
Hoist replacement (past life cycle)	Painting Throughout Maintenance & Wash Bays (past life cycle)
Shu Off Watch Yo Shu Off Watch Yo Shu Off Watch Yo Disconnect Work Yo Atter Filing Watch Yo Disconnect Watch Yo Watch Yo Watch Yo	



Annswell Park – Sinking Interlocking requires repair around well building (past life cycle)



Toogood Pond Pavilion – assessment of deck structure

ARKHAM	DING REQUEST FORM Number: 24108
	Project Cost: \$25,000
Project Name: Other Facilities Repair and/or Replacer	Repair/Replace
Commission: <u>Corporate Services</u> Department: <u>Sustainability and Asset Management</u>	Useful Life: 10 Pre Approval:
Project Mgr: Khwaja Waker	Category: Major
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Internal peer review
	Requirement Validation: Visual inspection
CTAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES \$15,300 - Daniels-Fairty House framing and foundation (1970-1974)
Cost/Quote:	24,558	0	\$9,700 - 7181 Reesor Road - architectual and envelope work (2008-
Internal Charges:	0	0	2013)
External Consulting:	0	0	Amount is validated and consistent with the Life Cycle Reserve
Contingency %: 0	0	0	Study and based on the prior year annual condition assessment and
Sub Total:	24,558	0	cost estimation.
HST Impact:	432	0	
Total Project Cost:	25,000	0	

SOURCE(S) OF FUNDING (S	<u>5)</u>		Componer	nts			E4
Funding Type	<u>Budget</u>	Fairty House	7181 Reesor rd			<u>TOTAL</u>	<u>Future</u> Phases
		0	0	0	0	0	0
Operating Funded Life Cycle	25,000	15,300	9,700	0	0	25,000	0
TOTAL FUNDING	25,000				=	25,000	0

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

<u>DCA</u>			Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	25,000
				Amount Incl HST	25,000
				Year in the study	2024
DCA and/or Life Cycle: Explain if there is a change	e in the year a	nd/or cost:			

MARKHAM	2024 PRC	JECT FUNDI	NG REQUEST FORM	Number:	24109
Drainat Nama: D I. I	(I'I')	,	Pro	ject Cost:	\$43,100
Project Name: Parking L	ot Light Repla	acement		Repair	r/Replace
Commission: Corporate S	ervices		Useful l		Pre Approval:
Department: Sustainabili	ty and Asset Ma	nagement			Pre Approvar:
Project Mgr: <u>Khwaja Wa</u>	ker		Category: Minor		
Ward(s): CW ✓ 1	2 3 4		Cost Validation: Intern	al peer review	
	6 7 8		Requirement Validation: Condi	tion assessmen	nt
ETAILED DESCRIPTIO			ITS Involved Project: Is ITS Co	nsulted? \Box	
oles for replacement are ide	ntified through a for safety and lia n. Replacement	nother program (Park bility. Poles and fixtur fixtures will be LED	using on underground wiring and f ting Lot light poles/fixtures Inspec res are audited once every 5 years and dark sky compliant. Sustainable Community	tion) that occu	rs every 5 years to
ROJECT COSTS (\$)	2024	Future Phases	NOTES		
Cost/Quote:	42,400	0	\$43,100 - Citywide parking lot l	ght replaceme	nt
Internal Charges:	0	0 Amount is validated and consistent with the Life Cycle			fe Cycle Reserve
External Consulting:	0	0	Study and based on the prior year	r annual condi	tion assessment and
Contingency %: 0	0	0	cost estimation.		
Sub Total:	· · · ·				

SOURCE(S) OF FUNDING (\$)			Compone	ents			Enderson
Funding Type	<u>Budget</u>	All Locations				TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	43,100	43,100	0	0	0	43,100	0
TOTAL FUNDING	43,100				=	43,100	0

0

0

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

DCA/LIFE CYCLE DETAILS

HST Impact:

Total Project Cost:

746

43,100

DCA		Amount in	<u>Life Cycle</u>	
Name	Year Amount	Study	Amount in Study:	59,400
			Amount Incl HST	54,100
			Year in the study	2024
DCA and/or Life Cycle: Explain if there is \$11,000 of consultant cost was part of the				

Project Name: Recycling Depots Repair and/or Replacement Projects Project Commission: Corporate Services Useful Life Department: Sustainability and Asset Management Category: Minor Project Mgr: Khwaja Waker Cost Validation: Internal project Ward(s): Cw ♥ 1 □ 2 □ 3 □ 4 □ Requirement Validation: Condition	Number:	r: 24110
Department: Sustainability and Asset Management Useful Life Project Mgr: Khwaja Waker Category: Minor Ward(s): CW ✓ 1□ 2□ 3□ 4□ Cost Validation: Internal 1 Requirement Validation: Condition: Condition:	ct Cost: Repair	\$40,800 air/Replace
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$ Cost Validation:Internal μ Requirement Validation:Condition:	e: 7	Pre Approval:
DETAILED DESCRIPTION (SCOPE OF PROJECT): ITS Involved Project: Is ITS Consu	n assessmer	

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES \$40,800 - Milliken Mills Recycling Depot (1970)
Cost/Quote:	40,094	0	(
Internal Charges:	0	0	Amount is validated and consistent with the Life Cycle Res Study and based on the prior year annual condition assessn
External Consulting:	0	0	cost estimation.
Contingency %: 0	0	0	
Sub Total:	40,094	0	
HST Impact:	706	0	
Total Project Cost:	40,800	0	

SOURCE(S) OF FUNDING (\$)			Compon	ents			E. A.
Funding Type	<u>Budget</u>	Milliken Mills RD				<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	40,800	40,800	0	0	0	40,800	0
TOTAL FUNDING	40,800				=	40,800	0

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

<u>DCA</u>		ount in	Life Cycle		
Name	Year Amount S	tudy	Amount in Study:	40,800	
			Amount Incl HST	40,800	
			Year in the study	202	
)CA and/or Life Cycle: Explain if t	here is a change in the year and/or cost:				

Number	: 24111
oject Cost:	\$163,200
Repa	ir/Replace
Life: 1	Pre Approval:
al	
nal peer reviev	W
_	ent
onsulted?	
c	dition assessme onsulted?

Project scope includes annual routine maintenance and on demand roof repairs at all City of Markham facilities. Maintenance and repair helps ensure maximum utility or life of our roof systems.

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES \$163,200 - Roofing Maintenance and Repair
Cost/Quote:	160,377	0	
Internal Charges:	0	0	Amount is validated and consistent with the Life Cycle Reserve Study and based on the prior year annual condition assessment
External Consulting:	0	0	cost estimation.
Contingency %: 0	0	0	
Sub Total:	160,377	0	
HST Impact:	2,823	0	
Total Project Cost:	163,200	0	

SOURCE(S) OF FUNDING (\$)			Component	S			F
Funding Type	Budget	Annual Maintenance				TOTAL	<u>Future</u> Phases
Operating Funded Life Cycle	163,200	163,200	0	0	0	163,200	0
TOTAL FUNDING	163,200				=	163,200	0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 163,200
		Amount Incl HST 163,200
		Year in the study 202
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024

2024 PROJECT FUNDING REQUEST FORM

umber:	24112

MARKHAM	2024 PROJ	ECT FUND	ING REQ	UEST FO	RM Num	iber:	24112
Draigat Nama: D C D		• 4 -			Project Cos	st:\$8	313,800
Project Name: Roofing R	eplacement Pro	jects]	Repair/Rep	olace
Commission: Corporate Se				U	seful Life: 2	0 Pre	Approval:
Department: <u>Sustainabilit</u>	-	gement		Category:			11
Project Mgr: <u>Michael Rya</u>			Co	st Validation:	-	eview	
	2 3 4			nt Validation:			
	6 7 8		-	ed Project: Is I			
DETAILED DESCRIPTIO This project includes roofing	·	,		-			a of good none
and in alignment to the Asset year, upon completion of ann Condition assessment comple	Management Plan ual condition asses ted 2021, over a y	Policy. Roofs for ssment. Funding re ear ago, and as a r	replacement in quest is based esult may be s	n the budget yea on historical bu	ar will be deter udgets, Life Cy e.	mined in t	he previous
PROJECT COSTS (\$)	2024	Future Phases	NOTES				
Cost/Quote:	<u>2024</u> 799,700	<u>ruture rnases</u> 0		Elson Miles - F			
Internal Charges:	799,700 0	0		ooms & Museu accessories (19		Station - C	.nimney,
External Consulting:	0	0	\$46,290 - N	Iuseum Hoover	r House, Black		
Contingency %: 0	0	0		nney, shingles a Rouge River C			
Sub Total:	799,700	0	Library - sk	ylight, built-up			
HST Impact:	14,075	0	skylight (19	075-2006) consistent with	the 2023 I ife	Cycle Rese	erve Study
Total Project Cost:	813,800	0		ject includes in			Tve Study
OURCE(S) OF FUNDING	(\$)		Comp	onents			
Funding Type	<u>Budget</u>	Elson Mills, Pingle House, Millenium B Park & Museum	Museum Hoover, lacksmith & Harness	Rouge Rive		TOTA	- <u>Future</u> L Phases
Operating Funded Life Cycle	813,800	129,080	46,290	638,430	0	813,800)
TOTAL FUNDING	813,800				-	813,80	0
OPERATING BUDGET IN	ІРАСТ		ersonnel F 60	Revenues \$0	Expenditures \$0		s)
DCA/LIFE CYCLE DETAI	<u>LS</u>						
<u>DCA</u> Name		Ye	ar Amount	Amount in Study	<u>Life Cy</u>	<u>cle</u>	
				Study	- Amount	in Study:	1,019,600
					Amount	Incl HST	873,800
					Year in	the study	2024
DCA and/or Life Cycle:	Explain if there is	a change in the year	ar and/or cost:				
\$60,000 of consultant cos	st was part of the 2	023 in-year capita	l additions.				

2024 Budget Request Back-up Pictures

Museum Blacksmith Shop – Roofing





Thornhill Community Centre – Roof Replacement



Rouge River Community Centre – Roof Replacement



Millenium Park Washrooms – Roof Replacement



Locust Hills Station – Roof Replacement



<u>Hoover House – Roof Replacement</u>



2024 PROJECT FUNDING REQUEST FORM

Number: 24113

Project Name: Salary Recoveries for Staff		Project C	Cost:	\$1,577,700
			Studie	es/Pilot Programs
Commission: Corporate Services	L	Jseful Life:	1	Pre Approval:
Department: <u>Sustainability and Asset Management</u> Project Mgr: Renee England	Category:	Major		
Ward(s): $CW \swarrow 1 \square 2 \square 3 \square 4 \square$	Cost Validation:	Internal pee	r review	1
5 6 7 8	Requirement Validation:	` I		tes)
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulted	d? □	

Cost recovery for Sustainability & Asset Management staff on Capital projects. The list of projects are as follows: Accessibility, Building Condition Audit, Corporate Security operations and system upgrades, Civic Centre, 8100 Warden, Fire facilities, Fire systems maintenance, Facility Energy Management Program (FEMP), BAS Replacement program,Library facilities, Museum - various buildings, Operation facilities, Roofing replacement, Angus Glen C.C. Window Replacement, Cornell C.C. Exhaust Fan and Overhead Doors Project.

BUILDING MARKHAM'S FUTURE TOGETHER: Stewardship of Money & Resources

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES
Cost/Quote:		0	The request is based on staff with varying percentage of time allocated to work on various projects.
Internal Charges: External Consulting: Contingency %: 0	1,577,732 0 0	0 0 0	Amount is validated and consistent with the 2023 Life Cycle Reserve Study update.
Sub Total:	1,577,732	0	
HST Impact:	0	0	
Total Project Cost:	1,577,700	0	

SOURCE(S) OF FUNDING	(\$)	Components						
Funding Type	<u>Budget</u>	Salary Recovery				<u>TOTAL</u>	<u>Future</u> Phases	
Operating Funded Life Cycle	1,382,400	1,382,400	0	0	0	1,382,400	0	
Other Internal	195,300	195,332	0	0	0	195,332	0	
TOTAL FUNDING	1,577,700					1,577,732	0	

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

DCA/LIFE CYCLE DETAILS

ARKHAM

Name	Year Amount	Study	Amount in Study:	8,789,000
			•	
			Amount Incl HST	1,382,400
			Year in the study	202

2024 Capital Budget Internal Charges (Prepared: May 18, 2023) List below excludes capital administration fees charged in Engineering and Design

									Funding	Source			Tot	tal
Department	2024 Project Name	FT/ Contract	# of Yrs	Existing / New	Position Title	First	Last	Тах	Life Cycle	Development Charges	Other	Other Funding Description	Internal Charges	Project Request (w/o Internal Charge + HST Impact)
SAM	8100 Warden	Contract	1	Existing	Project Manager		Lust	Tun	30,500		other	Asset Management	30,500	
SAM	Accessibility Retrofit Program	Contract	1	Existing	Project Manager				12,200			Asset Management	12,200	,
SAM	BAS Replacement Program	Contract	1	Existing	Project Manager				177,300			Asset Management	177,300	
SAM	Building Condition Audit - FTE	Full Time	1	Existing	Manager, Facility Maintenance				,			Asset Management	,	,
SAM	Building Condition Audit - FTE	Full Time	1	Existing	Facility Engineer				250,600			Asset Management	250,600	-
SAM	Building Condition Audit - FTE	Contract	1	New	Facility Engineer							Asset Management	-	
SAM	Civic Centre	Contract	1	Existing	Project Manager				132,600			Asset Management	132,600	1,740,000
SAM	Corporate Security Operations & System Upgrades	Contract	1	Existing	Manager, Corporate Security							Asset Management		
SAM	Corporate Security Operations & System Upgrades	Contract	1	Existing	Coordinator, Corporate Security				275,500			Asset Management	275,500	359,000
SAM	Fire Facilities Repair and/or Replacement Projects	Full Time	1	Existing	Project Manager				68,000			Asset Management	68,000	327,500
SAM	Fire System Maintenance at Various Facilities	Contract	1	Existing	Project Manager				9,200			Asset Management	9,200	30,600
SAM	Library Facilities Repair and/or Replacement Projects	Full Time	1	Existing	Project Manager				77,100			Markham library	77,100	168,100
SAM	Museum - Various Buildings	Contract	1	Existing	Project Manager				35,000			Culture LC	35,000	340,600
SAM	Operations Facilities Repair and/or Replacement Projects	Contract	1	Existing	Project Manager				132,600				132,600	951,900
SAM	Roofing Replacement Projects	Full Time	1	Existing	Facility Engineer				145,800			Roofing Projects	145,800	873,800
SAM	Angus Glen C.C. Library Window Replacement	Contract	1	Existing	Project Manager				20,000				20,000	280,000
SAM	Cornell C.C. Exhaust Fan and Overhead Doors Project	Contract	1	Existing	Project Manager				16,000				16,000	184,000
SAM	Facility Energy Management Program	Contract	2	Existing	Energy & GHG Analyst				-		195,332	MECO	195,332	130,000
Grand Total								-	1,382,400	-	195,332		\$ 1,577,732	\$ 6,495,800

NDING REQUEST FORM Number:	24114				
Project Cost:	\$79,600				
	r/Replace				
Useful Life: 15 Category: Minor	Pre Approval:				
Cost Validation: Other(specify in No					
Requirement Validation: Condition assessment ITS Involved Project: Is ITS Consulted?					
	Mumber: Ind/or Replacement Project Cost: Ind/or Replacement Repair Ind/or Replacement Useful Life: Ind/or Replacement Useful Life: Ind/or Replacement Useful Life: Ind/or Replacement Useful Life: Ind/or Replacement Other(specify in Note) Ind/or Requirement Condition assessment				

Program includes various life cycle works to maintain the satellite community centres in a state of good repair and in alignment to the Asset Management Plan/Policy.

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES \$71,400 - German Mills - basement framing (1874)
Cost/Quote:	78,223	0	\$8,200 - Markham Train Station - Heritage style doors (2015)
Internal Charges:	0	0	
External Consulting:	0	0	Amount is validated and consistent with the Life Cycle Reserve Study and based on the prior year annual condition assessment and
Contingency %: 0	0	0	cost estimation.
Sub Total:	78,223	0	
HST Impact:	1,377	0	
Total Project Cost:	79,600	0	

SOURCE(S) OF FUNDING (S	<u>\$)</u>	Components								
Funding Type	<u>Budget</u>	<u>German Mills</u>	<u>Markham Train</u>			<u>TOTAL</u>	<u>Future</u> Phases			
		0	0	0	0	0	0			
Operating Funded Life Cycle	79,600	71,400	8,200	0	0	79,600	0			
TOTAL FUNDING	79,600				=	79,600	0			

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

DCA			Amount in	Life Cycle	
Name	Year	Amount	Study	Amount in Study:	79,600
				Amount Incl HST	79,600
				Year in the study	2024
DCA and/or Life Cycle: Explain if there is a cha	ange in the year ar	nd/or cost:			

2024 PROJECT FUNL	DING REQUEST FORM Number: 24115
Project Name: Tennis Clubhouse Repair and/or Replac	ement Projects Project Cost: \$27,500 Repair/Replace
Commission: <u>Corporate Services</u> Department: <u>Sustainability and Asset Management</u> Project Mgr: Khwaja Waker	Useful Life: 10 Pre Approval:
Ward(s): $_{CW} \bigvee 1 \square 2 \square 3 \square 4 \square$ $_{5} \square 6 \square 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation:Other(specify in Notes)Requirement Validation:Condition assessmentITS Involved Project: Is ITS Consulted?

Program includes various Life Cycle works to maintain the Tennis Clubhouses in a state of good repair and in alignment to the Asset Management Plan/ Policy. Funding request is based on historical budgets, life cycle database and trending. Budget request is subject to change, based on condition assessment in previous year. Amount requested is consistent with 2023 Life Cycle Reserve Study update.

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES \$6,100 - Armadale Tennis Club storage rooms (2005)
Cost/Quote:	27,024	0	\$6,100 - Pomona Valley Tennis Club cabinets (2005)
Internal Charges:	0	0	\$15,300 - Unionville Tennis Club vinyl sliding & electrical p (1993)
External Consulting:	0	0	As Tennis Club Policy, 50% of the costs to be funded by resp
Contingency %: 0	0	0	club Tennis clubhouse repair and/or replacement will proceed
Sub Total:	27,024	0	subject to satisfactory club finance review. Amount is consist
HST Impact:	476	0	with the 2023 Life Cycle Reserve Study update. Items for rep or/and replacement in the Budget year will be determined in t
Total Project Cost:	27,500	0	previous year, upon completion of annual condition assessme

SOURCE(S) OF FUNDING (\$)	Components								
Funding Type	<u>Budget</u>	Armadale Tennis Club	Pomona Valley Tenis <u>Club</u>	Unionville Tennis		<u>TOTAL</u>	<u>Future</u> Phases		
Operating Funded Life Cycle	13,750	3,050	3,050	7,650	0	13,750	0		
Other External	13,750	3,050	3,050	7,650	0	13,750	0		
TOTAL FUNDING	27,500				=	27,500	0		

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

DCA			Amount in	Life Cycle
Name	Year	Amount	Study	Amount in Study: 27,500
				Amount Incl HST 13,700
				Year in the study 2024
DCA and/or Life Cycle: Explain if there is a change	e in the year a	nd/or cost:		

Recreation Services

2024 PROJECT FUNI	DING REQUEST FORM Number: 24116	
Project Name: Aaniin C.C. Dance Studio Wall Refurbi	Project Cost: \$21,000	
	Repair/Replace	
Commission: Community Services	Useful Life: 15 Pre Approval:	
Department: <u>Recreation Services</u>		
Project Mgr: Ryan Hanna	Category: Minor	
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Third party estimate	
	Requirement Validation: Other(specify in Notes)	
5 6 7 7 8		
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box	

This project is to remove an existing wall that separates the Dance Studio and Aerobic Studio at Aaniin C.C. The Dance Studio and Aerobic Studio are adjacent to each other. Since the opening of Aaniin C.C., demand for fitness programs and dance instructional programs has been high. However, the size of the existing rooms is unable to accommodate the needs and demands from the community. As such, this project is to remove the existing wall between the Aerobic Studio and Dance Studio, increasing its existing size, which will then accommodate large program sizes to meet community needs.

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The existing wall is original and was constructed in 2017. The
Cost/Quote: Internal Charges: External Consulting:	20,600 0 0	0 0 0	purpose of removing the existing wall is to expand and merge the two rooms into a larger space that will accommodate community demand for programs which are revenue generating. A larger space
Contingency %: 0	0	0	will allow staff the capability to increase program sizes. The amount requested is consistent with recent quote.
Sub Total:	20,600	0	
HST Impact:	363	0	
Total Project Cost:	21,000	0	
SOURCE(S) OF FUNDING	G (\$)		Components Future
Funding Type	<u>Budget</u>		<u>TOTAL</u> <u>Phases</u>

Operating Funded Life Cycle	21,000	21,000	0	0	0	21,000	0
TOTAL FUNDING	21,000				=	21,000	0

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

DCA	Amount in	<u>Life Cycle</u>		
Name	Year Amount Study	Amount in Study:195,700Amount Incl HST21,000		
		Year in the study 202		
DCA and/or Life Cycle: Expla	ain if there is a change in the year and/or cost:			

MARKHAM 2024 PROJECT FUND	ING REQUEST FORM Number:	24117
Project Name: Angus Glen C.C. Door Replacement	Project Cost:	\$534,000
	Repai	ir/Replace
Commission: Community Services Department: Recreation Services	Useful Life: 20	Pre Approval:
Project Mgr: Scott Hill	Category: Minor	
Ward(s): $_{CW}$ \square $_1$ \square $_2$ \square $_3$ \square $_4$ \square	Cost Validation: Third party estimate	
5 6 7 8	Requirement Validation: Condition assessme	ent
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box	

This project is to replace 56 interior and exterior doors and associated hardware throughout Angus Glen C.C. Doors provide security and a safety requirement. All replacement doors are fire rated. The work includes labour to remove and dispose of the existing doors, supply and installation of new doors and new door hardware.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The existing 56 doors are original and were installed in 200
Cost/Quote:	445,000	0	condition assessment of all doors and associated hardware in
Internal Charges:	0	0	that replacement is warranted. All labour and materials are in The amount requested is consistent with recent quote.
External Consulting:	40,900	0	The amount requested is consistent with recent quote.
Contingency %: 8	38,872	0	
Sub Total:	524,772	0	
HST Impact:	9,236	0	
Total Project Cost:	534,000	0	

SOURCE(S) OF FUNDING (<u>\$)</u>		Compon	ents			Futuro
Funding Type	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	534,000	0	0	0	0	0	0
TOTAL FUNDING	534,000					0	0

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

Name Year Amount Study Amount in Study: 1,724,200 Amount Incl HST 534,000 Year in the study 202 DCA and/or Life Cycle: Explain if there is a change in the year and/or cost: 202	Amount	Study	Amount in Study:	1 724 200
Year in the study 202				
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:				2024
	and/or cost:			

Angus Glen CC Door Replacement

- Doors replacement project consist of replacing 56 interior and exterior doors and all hardware on doors
- Doors have a life cycle of 20 years. Based on condition assessment of existing doors and associated hardware, the doors require replacement
- Doors within Angus Glen CC have deteriorated. Pictures in next slide show dents, cracked doors, doors in the pool environment that have severe corrosion, etc.
- Doors must meet Fire Code requirements and are all fire-rated doors.





DING REQUEST FORM Number: 24118
erlock Replacement Repair/Replace
Useful Life: 15 Pre Approval: Category: Minor
Cost Validation: Recent awards Requirement Validation: Condition assessment ITS Involved Project: Is ITS Consulted?

243

This project is to replace the existing exterior interlock walkway on the South side of the Angus Glen C.C. To maintain the safety of the community, it is important that entrances and walkways are accessible and are in good condition. The work includes; material, labour and all other trades required for the work.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting: Contingency %: 8 Sub Total: HST Impact:	2024 262,250 0 24,100 22,908 309,258 5,443	Future Phases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NOTES The walkway is original and was installed in 2003. Based on condition assessment, the existing walkways warrants replaced All interlock pavers will be replaced with concrete as per City standards. Cost per sq ft of concrete including labour is \$31.7 8,267 sq ft has been identified to be replaced. \$31.72 x 8,267 = \$262,229. The amount requested is consistent with recent a
HST Impact:	5,443	0	
Total Project Cost:	314,700	0	

SOURCE(S) OF FUNDING (\$) Components Future Funding Type **TOTAL** Phases **Budget** Operating Funded Life Cycle 314,700 0 0 0 0 0 0 314,700 0 0 **TOTAL FUNDING**

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

DCA	Amount in	Life Cycle	
Name	Year Amount Study	Amount in Study: 1,724,2	200
		Amount Incl HST 314,7	700
		Year in the study 2	2024

					Project Cos	st: \$56	5,000
Project Name: Angus Gle	n C.C. Heat Ex	changer Replace	ement		I	Repair/Replac	<u>,</u>
Commission: Community	Services			T-	-		pproval: 🗆
Department: <u>Recreation S</u>	ervices					0 Pre Aj	pproval: 🗆
Project Mgr: Scott Hill				Category: N			
Ward(s): $_{CW} \square _1 \square$	2 3 4			Validation: 7			
5 🗌	6 🗹 7 🗌 8 🗌		Requirement				
DETAILED DESCRIPTION		ROJECT):	ITS Involved	Project: Is IT	S Consulted?		
This project is to replace the component in the operation of BUILDING MARKHAM'S	f a pool. The heat	exchanger is used		istent water te			
PROJECT COSTS (\$)	2024	Future Phases	NOTES	-			
Cost/Quote:	<u>2024</u> 46,667	<u>ruture r nases</u> 0	The existing h Based on the c				
Internal Charges:	40,007	0	warranted. Th				
External Consulting:	4,767	0	supply and ins	tallation of a	new heat excl	nanger. The v	work include
Contingency %: 7	3,600	0	labour and ma recent quote.	terials. The ai	nount request	ted is consiste	ent with
Sub Total:	55,034	0	recent quote.				
HST Impact:	969	0					
Total Project Cost:	56,000	0					
	<u>(۵)</u>						
OURCE(S) OF FUNDING			Compon	ents			<u>Future</u>
Funding Type	<u>Budget</u>					<u>TOTAL</u>	<u>Phases</u>
Derating Funded Life Cycle	56,000	0	0	0	0	0	C
TOTAL FUNDING	56,000				=	0	0
	IPACT Per		rsonnel Rev		Expenditures/	````	
OPERATING BUDGET IM		\$0 \$	0	\$0	\$0		
DCA/LIFE CYCLE DETAI		\$0 \$	0	\$0	\$0		
DCA/LIFE CYCLE DETAI			A	mount in	\$0 Life Cy		
DCA/LIFE CYCLE DETAI		\$0 \$ Yes	A			<u>cle</u>	1,724,200
DCA/LIFE CYCLE DETAI			A	mount in	<u>Life Cy</u>	cle in Study:	1,724,200 56,000

Project Name: Angus Glen C.C. Commission: Community Services Department: Recreation Services Project Mgr: Scott Hill Ward(s): $CW \square 1 \square 2 \square 2$ $5 \square 6 \checkmark$ DETAILED DESCRIPTION (SCO This project is to replace the existing limited or no access to replacement p system (BAS) with adjustable scheded lighting units across Angus Glen C.C.	a 4 a a a a a a a a a a a a a a a a a a	ROJECT): ighting Control System lighting relay pane ting requirements. cement system will CTHER: Safe &	Cost Requirement ITS Involved stem at the Angu- ils. The existing The lighting cor consist of the sa Sustainable Comr	Category: Validation: Validation: Project: Is I Is Glen C.C. system is int atrol system a ame BAS int	Third party of Condition as TS Consulted The existing tegrated with allows a cent	Repair/Rep 20 Pre estimate sessment 1? system is no the building	Approval:
Commission: Community Services Department: Recreation Services Project Mgr: Scott Hill Ward(s): $_{CW} \square 1 \square 2 \square 5$ DETAILED DESCRIPTION (SCO This project is to replace the existing limited or no access to replacement p system (BAS) with adjustable schedu	a 4 a a a a a a a a a a a a a a a a a a	ROJECT): ighting Control System lighting relay pane ting requirements. cement system will CTHER: Safe &	Cost Requirement ITS Involved stem at the Angu- ils. The existing The lighting cor consist of the sa Sustainable Comr	Category: Validation: Validation: Project: Is I Is Glen C.C. system is int atrol system a ame BAS int	Minor Third party of Condition as TS Consulted The existing tegrated with allows a cent	20 Pre estimate sessment 1? system is no the building	Approval:
Department: Recreation Services Project Mgr: Scott Hill Ward(s): $_{CW} \square 1 \square 2 \square 5$ $_{5} \square 6 \checkmark$ DETAILED DESCRIPTION (SCO This project is to replace the existing limited or no access to replacement p system (BAS) with adjustable schedu	3 4 7 7 8 7 8 9 Douglas L 9 Douglas L 9 parts for the 10 ules for ligh 10. The replace 10 JRE TOGE	ighting Control Sys lighting relay pane ting requirements. cement system will CTHER: Safe &	Requirement ITS Involved stem at the Angu- ils. The existing The lighting cor consist of the sa Sustainable Comr	Category: Validation: Validation: Project: Is I Is Glen C.C. system is int atrol system a ame BAS int	Minor Third party of Condition as TS Consulted The existing tegrated with allows a cent	estimate sessment 1? system is no the building	ow obsolete with automation
Project Mgr: Scott Hill Ward(s): $_{CW}$ 1 2 5 $_{5}$ 6 \checkmark DETAILED DESCRIPTION (SCO This project is to replace the existing limited or no access to replacement p system (BAS) with adjustable schedu	3 4 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	ighting Control Sys lighting relay pane ting requirements. cement system will CTHER: Safe &	Requirement ITS Involved stem at the Angu- ils. The existing The lighting cor consist of the sa Sustainable Comr	Validation: Validation: Project: Is I is Glen C.C. system is int atrol system a ame BAS int	Third party of Condition as TS Consulted The existing tegrated with allows a cent	sessment l? system is no the building	automation
Ward(s): $_{CW}$ \square $_{1}$ \square $_{2}$ \square $_{5}$ \square $_{6}$ \square	7 8 8 DPE OF PR g Douglas La parts for the ules for ligh C. The replace JRE TOGE	ighting Control Sys lighting relay pane ting requirements. cement system will CTHER: Safe &	Requirement ITS Involved stem at the Angu- ils. The existing The lighting cor consist of the sa Sustainable Comr	Validation: Project: Is I Is Glen C.C. system is int introl system a ame BAS int	Condition as TS Consulted The existing tegrated with allows a cent	sessment l? system is no the building	automation
5 6 ✓ DETAILED DESCRIPTION (SCO This project is to replace the existing limited or no access to replacement p system (BAS) with adjustable schedu	7 8 8 DPE OF PR g Douglas La parts for the ules for ligh C. The replace JRE TOGE	ighting Control Sys lighting relay pane ting requirements. cement system will CTHER: Safe &	ITS Involved stem at the Angu- ls. The existing The lighting cor consist of the si Sustainable Comr	Project: Is I is Glen C.C. system is int atrol system a ame BAS int	TS Consulted The existing tegrated with allows a cent	l? □ system is no the building	automation
DETAILED DESCRIPTION (SCO This project is to replace the existing limited or no access to replacement p system (BAS) with adjustable schedu	DPE OF PR g Douglas La parts for the ules for ligh C. The replace JRE TOGE	ighting Control Sys lighting relay pane ting requirements. cement system will CTHER: Safe &	stem at the Angu ls. The existing The lighting cor consist of the si Sustainable Comr	is Glen C.C. system is inf atrol system a ame BAS int	The existing tegrated with allows a cent	system is no the building	automation
This project is to replace the existing limited or no access to replacement p system (BAS) with adjustable schedu	g Douglas L parts for the ules for ligh C. The replac J RE TOGE	ighting Control Sys lighting relay pane ting requirements. cement system will CTHER: Safe &	els. The existing The lighting cor consist of the se Sustainable Comr	system is int atrol system a ame BAS int	tegrated with allows a cent	the building	automation
BUILDING MARKHAM'S FUTU	4						
	4		NOTES				
PROJECT COSTS (\$) 2024		Future Phases	The lighting p				d was installed
-	5,143	0	in 2003. This system as the				
Internal Charges:	0	0	replacement p				
e	5,047 4,815	0 0	amount reques	sted is consis	stent with rec	ent quote.	
		0					
	5,005 1,144	0					
·	6,100	0					
SOURCE(S) OF FUNDING (\$)			Compon	ients			<u>Future</u>
Funding Type	<u>Budget</u>					TOTA	L Phases
Operating Funded Life Cycle	66,100	0	0	0	0	C	0
TOTAL FUNDING	66,100					(0
OPERATING BUDGET IMPACT	Ľ	sonnel Non Per \$0 \$(z enues \$0	Expenditur	es/(Revenue \$0	s)
DCA/LIFE CYCLE DETAILS							
DCA		• •		Mount in	Life (Cycle	
Name		Yea	r Amount	Study	- Amour	nt in Study:	1,724,200
					Amour	t Incl HST	66,100
					Year i	n the study	2024
DCA and/or Life Cycle: Explain	n if there is a	a change in the yea	r and/or cost:				

MARKHAM 2024 PROJECT FUNL	DING REQUEST FORM	Number:	24121	
Project Name: Angus Glen C.C. Pool Drytron Replacer		ject Cost:	\$183,400	
		Repair	/Replace	
Commission: Community Services Department: Recreation Services	Useful I	Life: 20	Pre Approval:	
Project Mgr: Scott Hill	Category: Minor			
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Third	party estimate		
5 G Z 7 8	Requirement Validation: Condition	tion assessmen	nt	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Con	nsulted? \Box		
This project is to replace the drycooler within the pool at Angus Glen C.C. The pool drycooler is located on the roof above the pool and is a critical mechanical component of pool operations. The pool drycooler cools the glycol for the pool air conditioning and dehumidification unit. The unit is necessary in a wet pool environment to help keep air dry to reduce mold.				
BUILDING MARKHAM'S FUTURE TOGETHER: Safe	& Sustainable Community			
	Northa			

PROJECT COSTS (\$)	2024	Future Phases	NOTES
	2024	Future Flases	The existing pool drycooler is original and was installed in 2004. A
Cost/Quote:	152,767	0	condition assessment completed on the asset indicates replacement
Internal Charges:	0	0	is warranted. The drycooler is used to remove heat from the glycol used for pool dehumidification and air conditioning. The amount
External Consulting:	15,700	0	requested is consistent with recent quote.
Contingency %: 7	11,793	0	requested is consistent with recent quote.
Sub Total:	180,260	0	
HST Impact:	3,173	0	
Total Project Cost:	183,400	0	

SOURCE(S) OF FUNDING (<u>(\$)</u>		Compone	ents			E (
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	183,400	0	0	0	0	0	0
TOTAL FUNDING	183,400					0	0

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

DCA Name	Amount in Year Amount Study	Life CycleAmount in Study:1,724,200Amount Incl HST183,400Year in the study2024
DCA and/or Life Cycle: Explain if there i	is a change in the year and/or cost:	

2024 PROJECT FUNDING REQUEST FORM

Number:	24122

MARKHAM	2024 PROJ	ECT FUND	ING REQ	UEST FO	<i>RM</i> Number	
Project Name: A CI	т : с (Project Cost:	\$48,000
Project Name: Angus Gle		e Exit Blocks Re	eplacement		Repa	air/Replace
Commission: <u>Community</u>				τ	Jseful Life: 25	Pre Approval:
Department: <u>Recreation</u> Project Mgr: Scott Hill	Services			Category:	Minor	
	2 3 4		Co	st Validation:	External peer revie	w
	2 · · · · · 4 · · · · · · · · · · · · ·		Requireme	nt Validation:	Other(specify in N	otes)
DETAILED DESCRIPTIO		ROIECT)	ITS Involve	ed Project: Is I	TS Consulted?	
This project is to mitigate co along the East and West wall cause of external water leaks recommended that the throug replaced, the metal flashing j material. BUILDING MARKHAM'S	s at Angus Glen To stemming from the gh-wall flashing at oints will then be p	ennis Centre. In 20 e through-wall flas the swing doors be properly sealed wit	22, an externa hing not being exposed for th	l consultant co terminated at ne end dams w sealant. Cost	nducted a water tes the swing door jaml ithin the blocks and	t and identified the bs. The report the blocks be
PROJECT COSTS (\$)	2024	Future Phases	NOTES			
Cost/Quote:	40,000	<u>ruture i nases</u> 0			rgency exits at Ang t in 2011. Based on	
Internal Charges:	0	0	made by an	engineer cons	ultant, the blocks su	urrounding emerge
External Consulting:	3,700	0		te replacement with recent que	is necessary. The a	mount requested i
Contingency %: 8	3,496	0	consistent v	vitil lecent que	ite.	
Sub Total:	47,196	0				
HST Impact:	831	0				
Total Project Cost:	48,000	0				
SOURCE(S) OF FUNDING	G (\$)		Comp	onents		
Funding Type	<u>Budget</u>				<u>1</u>	<u>Futur</u> FOTAL Phase
Operating Funded Life Cycle	48,000	0	0	0	0	0
TOTAL FUNDING	48,000					0
OPERATING BUDGET IN DCA/LIFE CYCLE DETAI	МРАСТ		ersonnel F 50	Revenues \$0	Expenditures/(Re \$0	venues)
DCA				Amount in	Life Cycle	
Name		Ye	ar Amount	Study	– Amount in St	tudy: 1,724,200
					Amount Incl	-
					Year in the s	study 202
DCA and/or Life Cycle:	Explain if there is	a change in the yea	ar and/or cost:			

2024 PROJECT FUNDING REQUEST FORM

ervices vices 3 4 4 ✓ 7 8 (SCOPE OF PI isting fire prevent	e Fire Alarm Syst	Cos		seful Life: 19	r/Replac	,000
ervices vices 3 4 4 ✓ 7 8 (SCOPE OF PI isting fire prevent		Cos	Ŭ	seful Life: 19		_
vices 3 4 4 ✓ 7 8 (SCOPE OF PI isting fire prevent					Pre Aj	proval· 🗌
3			Category:		-	P
✓ 7 8 (SCOPE OF PI				Minor		-
✓ 7 8 (SCOPE OF PI			t Validation:	Third party estimate	e	
(SCOPE OF Pl isting fire preven			-	Condition assessme		
isting fire preven		-	-	TS Consulted?		
one (1) annuncia two (2) strobes	upport features are f ator panel, 12 pull st , a supervisor switch	unctional and tations, four (4 n, labour and d	supportive th 4) smoke dete lisposal.	roughout the facility	. The fir	e alarm
UTURE TOGI	ETHER: Safe & S	Sustainable Con	nmunity			
2024	Future Phases	NOTES	~		. ~	
18,350	0					
0	0	condition as	sessment of th	e current system ind	licates th	at
1,835	0					
1,413	0					i required.
21,598	0		1		1	
380	0					
22,000	0					
<u>\$)</u>		Compo	onents			
<u>Budget</u>				T	OTAL	<u>Future</u> Phases
22,000	0	0	0	0	0	
22,000					0	
_						
ACT Per				-	enues)	
	\$0 \$0		\$0	\$0		
<u> </u>						
	Vea	r Amount		<u>Life Cycle</u>		
	Ital	Amount	Study	- Amount in Stu	ıdy:	1,724,200
				Amount Incl H	IST	22,000
				Year in the st	udy	2024
1		1/				
plain if there is	a change in the year	and/or cost:				
	2024 18,350 0 1,835 1,413 21,598 380 22,000 \$) Budget 22,000 \$) Per 22 ACT	2024 Future Phases 18,350 0 0 0 1,835 0 1,413 0 21,598 0 380 0 22,000 0 Sy Budget 22,000 0 22,000 0 22,000 0 22,000 0 22,000 0 22,000 0 22,000 0 22,000 0 22,000 0 Yea Yea	PUTURE TOGETHER: Safe & Sustainable Con 2024 Future Phases 18,350 0 0 0 1,835 0 1,835 0 1,413 0 21,598 0 380 0 22,000 0 S) Compo Budget Compo Personnel Non Personnel Rog \$0 \$0 \$0	2024 Future Phases 18,350 0 0 0 1,835 0 1,413 0 21,598 0 380 0 22,000 0 Sp Components Budget Components 22,000 0 0 Sp Components Suget 0 22,000 0 0 Sp Components Budget 0 22,000 0 0 So \$0 \$0 So \$0 \$0	2024 Future Phases 18,350 0 0 0 1,835 0 1,413 0 21,598 0 380 0 22,000 0 0 0 22,000 0 0 0 22,000 0 22,000 0 22,000 0 22,000 0 22,000 0 0 0 22,000 0 1 0 21,598 0 380 0 22,000 0 0 0 22,000 0 0 0 22,000 0 22,000 0 22,000 0 22,000 0 22,000 0 22,000 0 22,000 0 22,000 0 22,000 \$0 \$0 \$0 \$0 \$0	2024 Future Phases 18,350 0 0 0 1,835 0 1,413 0 21,598 0 380 0 22,000 0 0 0 22,000 0 0 0 22,000 0 0 0 22,000 0 22,000 0 0 0 22,000 0 0 0 22,000 0 0 0 22,000 0 0 0 22,000 0 0 0 22,000 0 0 0 22,000 0 0 0 22,000 0 0 0 22,000 0 0 0 22,000 0 0 0 22,000 0 20 \$0

ING REQUEST FORM Numbe	er: 24124
Project Cost:	\$8,000 pair/Replace
Useful Life: 20 Category: Minor	Pre Approval:
Cost Validation: Third party estimates Requirement Validation: Condition assessment TTS Involved Project: Is ITS Consulted?	
	nent Project Cost: Ment Useful Life: 20 Category: Minor Cost Validation: Third party estim Requirement Validation: Condition assessm

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The existing expansion tank is original and was installed in 1995.
Cost/Quote:	7,900	0	Based on condition assessment of the unit replacement is warrant
Internal Charges:	0	0	Replacement will ensure that water pressure is maintained within the pipes and the facility's boiler system. The amount requested i
External Consulting:	0	0	consistent with recent quote.
Contingency %: 0	0	0	
Sub Total:	7,900	0	
HST Impact:	139	0	
Total Project Cost:	8,000	0	

SOURCE(S) OF FUNDING (\$	<u> </u>		Compone	ents			F
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	8,000	8,000	0	0	0	8,000	0
TOTAL FUNDING	8,000				=	8,000	0

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

DCA/LIFE CYCLE DETAILS

boiler system.

DCA		mount in	Life Cycle	
Name	Year Amount	Study	Amount in Study:	285,900
			Amount Incl HST	8,000
			Year in the study	202
DCA and/or Life Cycle: Explai	in if there is a change in the year and/or cost:		Year in the study	2024
DCA and/or Life Cycle: Explai	in if there is a change in the year and/or cost:		Year in the study	2024
DCA and/or Life Cycle: Explai	in if there is a change in the year and/or cost:		Year in the study	

2024 PROJECT FUN			Number:	24125
		Proje	ect Cost:	\$7,700
Project Name: Camp Chimo Flag Pole Replacement			Repair	/Replace
Commission: <u>Community Services</u> Department: <u>Recreation Services</u>	U	Jseful Lit	fe: 20	Pre Approval:
Project Mgr: Luke Hilts	Category:	Minor		
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \checkmark$	Cost Validation:	Recent	awards	
5 6 7 8	Requirement Validation:	Conditio	on assessmen	t
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Cons	ulted? 🗆	
This project is to replace one (1) flag pole by the front entrance	entering into Camp Chimo.			

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The existing flag pole was installed in 2
Cost/Quote:	7,600	0	indicates that replacement is warranted.
Internal Charges:	0	0	consistent with recent award.
External Consulting:	0	0	
Contingency %: 0	0	0	
Sub Total:	7,600	0	
HST Impact:	134	0	
Total Project Cost:	7,700	0	

SOURCE(S) OF FUNDING (\$	<u> </u>		Compone	ents			F4
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	7,700	0	0	0	0	0	0
TOTAL FUNDING	7,700					0	0

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

DCA	Amount	
Name	Year Amount Study	y Amount in Study: 7,800
		Amount Incl HST 7,700
		Year in the study 2024
DCA and/or Life Cycle: Explain if ther	e is a change in the year and/or cost:	
• 1		

MARKHAM 2024 PROJECT FUNDI	NG REQUEST FORM Number	24126
Project Name: Centennial C.C. Arena Pad Replacement	Project Cost:	\$1,113,500
	Repa	ir/Replace
Commission: <u>Community Services</u>	Useful Life: 30	Pre Approval: 🗹
Department: <u>Recreation Services</u> Project Mgr: Luke Hilts	Category: Major	
Ward(s): $_{CW} \square 1 \square 2 \square 3 \checkmark 4 \square$	Cost Validation: Recent awards	
	Requirement Validation: Condition assessme	ent
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box	

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This project is to replace the existing arena pad and header trench system in the arena at Centennial C.C. To support the ice making process, arena refrigerant is distributed to the network of pipes located within the refrigerated cold floor, typically concrete. This movement of refrigerant is accomplished via a set of supply and return headers, which are normally located within an open trench covered by either wood planks or steel. This replacement project will include the concrete pad, the header return and supply piping, the header trench and the underfloor heating.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The existing arena concrete pad and header piping system were
Cost/Quote:	986,100	0	installed in 1983. A condition assessment indicates that
Internal Charges:	0	0	replacement is warranted. The amount requested is consistent with
External Consulting:	56,000	0	recent award plus inflation. Arena Pad and Header Pipes = \$1,113,500
Contingency %: 5	52,105	0	Arena i aŭ anu freader i ipes – \$1,113,500
Sub Total:	1,094,205	0	
HST Impact:	19,258	0	
Total Project Cost:	1,113,500	0	
SOURCE(S) OF FUNDING	<u>G (\$)</u>		Components Future

Funding Type	<u>Budget</u>	Arena Pad	Header Trench	Consultant		TOTAL	<u>Future</u> Phases
Operating Funded Life Cycle	1,113,500	974,984	81,531	56,985	0	1,113,500	0
TOTAL FUNDING	1,113,500					1,113,500	0

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

<u>DCA</u>		Amount in	Life Cycle	
Name	Year Amou	int Study	Amount in Study:	3,166,200
			Amount Incl HST	1,113,500
			Year in the study	2025
	n if there is a change in the year and/or co	51.		






2024 PROJECT FUNDING REQUEST FORM

MARKHAM	2024 PROJ	ECT FUN	VDING	REQU	EST FO	RM N	umber:	24	4127
Project Name: Centennial	C C Arona W	ashuooma D	ofuuhiahr	nont		Project	Cost:	\$84	,500
		ashrooms K	elurdishn	nent			Repair	r/Replac	e
Commission: <u>Community S</u>					U	seful Life:	25	Pre Ar	proval:
Department: <u>Recreation Sec</u>	ervices				Category:	Minor		1	1
Project Mgr: <u>Luke Hilts</u>				Cost	Validation:		estimate	;	
	2 3 4		Rec		Validation:				
	6 7 8			-	Project: Is I		_		
DETAILED DESCRIPTION	,	,			•				
This project is to refurbish (2) 1) To replace existing floor an 2) To replace the counters and 3) To repaint the existing area	d wall tiles and p mirrors and;				ect has three	components	3.		
The work includes material, la	bour and all othe	r trades require	ed for the v	vork.					
BUILDING MARKHAM'S		•	afe & Sustai		munity				
					2				
PROJECT COSTS (\$)	<u>2024</u>	Future Phas		DTES	1	1	1	. 1 1.	1000 D
Cost/Quote:	68,628	(arena washro assessment re				
Internal Charges:	0	(radi		onsistent with				
External Consulting:	6,862	() Flor	or Tile (?	240 sq ft x \$9) 20 per sa	ff) = \$20	806	
Contingency %: 10	7,549	(587 sq ft x \$9				
Sub Total:	83,039	0			x \$1,384 per	unit) =	3,841		
HST Impact:	1,461	0		inters x 2 nting = 1					
Total Project Cost:	84,500	0		8	, -				
OURCE(S) OF FUNDING	<u>(\$)</u>			Compo	nents				Future
unding Type	<u>Budget</u>	Wall & Foor T	iles Partitions	& Counter	<u>Painti</u>	ng <u>Cons</u> <u>Con</u>	sultant & <u>T(</u> ntingency	<u>DTAL</u>	Phases
perating Funded Life Cycle	84,500	44,837	23	,757	1,262	14,644	4 84	4,500	
TOTAL FUNDING	84,500							4,500	
								1,000	
	Per	sonnel No	n Personn	el Re	venues	Expenditu	res/(Rev	enues)	
OPERATING BUDGET IM	PACT	\$0	\$0		\$0	1	\$0	,	
CA/LIFE CYCLE DETAIL	S	~ ~			~ ~		**		
DCA						T * C	C 1		
<u>DCA</u> Name			Year A	mount	Amount in Study	Life	<u>Cycle</u>		
					v		int in Stu	-	,760,100
						Amou	nt Incl H	ST	84,500
						Year	in the stu	udy	2024
DCA and/or Life Cycle: E	Explain if there is	a change in th	e vear and/	or cost.					
		a enunge in ur							

2024 PROJECT FUNDI	NG REQUEST FORM Number: 24128
Project Name: Centennial C.C. Mechanical Replacement	Project Cost: \$710,800 Repair/Replace
Commission: <u>Community Services</u> Department: <u>Recreation Services</u> Project Mgr: Luke Hilts	Useful Life: 18 Pre Approval:
Ward(s): $_{CW}$ \square $_{1}$ \square $_{2}$ \square $_{3}$ \checkmark $_{4}$ \square $_{5}$ \square $_{6}$ \square $_{7}$ \square $_{8}$ \square DETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation:Third party estimateRequirement Validation:Condition assessmentITS Involved Project:Is ITS Consulted?

This project is to replace 24 rooftop HVAC units at Centennial C.C. The HVAC units being replaced are heat pumps. Heat pumps are designed to provide both heating and cooling for the community centre. The heat pump replacements are located in the arena lobby, bocce courts, fitness centres, pool training room, pool view deck lobby and the gymnasium. The work includes; material, labour and all other trades required for the work. Centennial C.C. has been identified as a Net Zero facility and has undergone an audit that determines key equipment to replace over the next 5 years. This replacement will follow the recommendations as outlined in the energy audit and will help to achieve the City's Net Zero targets. The proposed heat pumps will be upgarded with high efficiency that aims to reduce greenhouse gas (GHG) emissions.

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PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The HVAC units were last replaced in 2007. Based on condition
Cost/Quote:	610,000	0	assessment replacement is warranted. The amount requested is
Internal Charges:	0	0	consistent with recent quote.
External Consulting:	25,000	0	
Contingency %: 10	63,500	0	
Sub Total:	698,500	0	
HST Impact:	12,294	0	
Total Project Cost:	710,800	0	

SOURCE(S) OF FUNDING			Future				
Funding Type	<u>Budget</u>					<u>TOTAL</u>	Phases
Operating Funded Life Cycle	710,800	0	0	0	0	0	0
TOTAL FUNDING	710,800					0	0

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

<u>DCA</u>	Amount in	Life Cycle
Name	Year Amount Study	Amount in Study: 3,166,200
		Amount Incl HST 710,800
		Year in the study 2025

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August 25, 2022

4.23 RTU upgrade - ASHP

Measure description

Existing condition

RTU1-8 are natural gas-fired.

Capital renewal plan

The capital renewal plan for the equipment affected in this measure was obtained from documentation provided by City of Markham and is summarized as follows.

- Expected life. 24 years.
- Renewal schedule. 2024.
- Renewal cost. \$155,000.

Potential action

Upon the end of their useful lives, replace with one-to-one packaged air-source heat pump (ASHP) RTUs with electric resistance supplemental heating.

Utility-savings mechanism

Reduced GHG emissions through fuel-switching natural gas-fired equipment to electrically-powered groundsource heat pumps. Natural gas use will be reduced; electricity use will be increased.

Scope of Implementation

There are currently 8 rooftop units serving various locations within the building. These units are gas fired and will be replaced with equivalent sized air source heat pump units.

- Rooftop units to be replaced with Daikin Rebel Packaged systems.
- Units will be capable of VAV or single zone operation with economizers and variable speed fans.

Maintenance Cost Estimate

• No changes to maintenance cost are expected with this modification.

Project Cost Estimate

Project cost estimates are summarized as follows:

August 25, 2022

Line item	Unit	Value
Supply	[\$]	359,000
Install	[\$]	180,000
Electrical	[\$]	30,000
Contingency	[\$]	56,900
Subtotal (Construction)	[\$]	625,900
Engineering Design and Field Review	[\$]	43,813
PM, CM, Commissioning, M&V, Performance Guarantee	[\$]	43,813
Subtotal (Construction + Design + Management)	[\$]	713,526
HST	[\$]	0
Total	[\$]	713,526

Table 60: Project cost estimate

Due to impacts of COVID-19, there is significant volatility in market conditions that affect project cost on an ongoing basis. Also, HST is intentionally set to zero.

Utility analysis

Baseline: Heat source of the systems is assumed to be natural gas combustion. Proposed: Heat source of the systems is assumed to be electrically-energized air-source heat pumps.

Table 61: Analysis results summary						
Category	Description	Unit	Baseline	Proposed	Reduction	Reduction (%)
Utility use	Electricity use from grid	[kWh/yr]	2,741,614	3,317,353	-575,739	-21.0
	Electricity peak (avg)	[kW]	478	568	-90	-18.8
	Natural gas use	[m3/yr]	348,218	244,862	103,356	29.7
GHG emissions	Electricity GHG emissions	[tCO2e/yr]	89	107	-18	-20.2
	Natural gas GHG emissions	[tCO2e/yr]	665	468	197	29.6
	Carbon offsets	[tCO2e/yr]	0	0	0	-
	Total GHG emissions	[tCO2e/yr]	754	575	179	23.7
Utility cost	Electricity utility cost	[\$/yr]	419,892	508,069	-88,177	-21.0
	Natural gas utility cost	[\$/yr]	72,851	51,228	21,623	29.7
	Federal carbon charge	[\$/yr]	13,302	9,354	3,948	29.7
	Carbon offsets	[\$/yr]	0	0	0	-
	Total utility cost	[\$/yr]	506,045	568,651	-62,606	-12.4
Financial	Capital budget	[\$]	-	155,000	-	-
	Total project cost	[\$]	-	713,526	-	-
	Incremental project cost	[\$]	-	558,526	-	-
	Life cycle cost	[\$]	-	-1,470,899	-	-

Analysis results are summarized in the following table.

The information in the Utility use, GHG emissions, and Utility cost sections are relative to the 2019 energy baseline. For the last Financial section, LCCA analysis is done from 2024-2054. This is to address the inherent inconsistency of wanting to compare energy savings to a past baseline while wanting to estimate the financials of the measure implementation in the future.

4.24 RTU upgrade - GSHP

Measure description

Existing condition

RTU1-8 are natural gas-fired.

Capital renewal plan

The capital renewal plan for the equipment affected in this measure was obtained from documentation provided by City of Markham and is summarized as follows.

- Expected life. 24 years.
- Renewal schedule. 2024.
- Renewal cost. \$155,000.

Potential action

Upon the end of their useful lives, replace with one-to-one packaged water-source heat pump (GSHP) RTUs served by the ground heat exchanger proposed under the measure called Geothermal.

Utility-savings mechanism

Reduced GHG emissions through fuel-switching natural gas-fired equipment to electrically-powered ground-source heat pumps. Natural gas use will be reduced; electricity use will be increased.

Scope of Implementation

There are currently 8 rooftop units serving various locations within the building. These units are gas fired and will be replaced with equivalent sized geothermal heat pump units.

• Rooftop units to be replaced with ClimateMaster TRE roof top heat pumps.

Maintenance Cost Estimate

• No changes to maintenance cost are expected with this modification.

Project Cost Estimate

Project cost estimates are summarized as follows:

Table 62: Project cost estimate		
Line item	Unit	Value
Supply	[\$]	210,000
Install	[\$]	280,000
Piping and geothermal connections	[\$]	80,000
Contingency	[\$]	57,000
Subtotal (Construction)	[\$]	627,000
Engineering Design and Field Review	[\$]	43,890
PM, CM, Commissioning, M&V, Performance Guarantee	[\$]	43,890
Subtotal (Construction + Design + Management)	[\$]	714,780
HST	[\$]	0
Total	[\$]	714,780

Due to impacts of COVID-19, there is significant volatility in market conditions that affect project cost on an ongoing basis. Also, HST is intentionally set to zero.

Baseline: Heat source of the systems is assumed to be natural gas combustion. Proposed: Heat source of the systems is assumed to be electrically-energized ground-source heat pumps.

Analysis results are summarized in the following table.

Category	Description	Unit	Baseline	Proposed	Reduction	Reduction (%)
Utility use	Electricity use from grid	[kWh/yr]	2,741,614	3,261,620	-520,006	-19.0
	Electricity peak (avg)	[kW]	478	534	-56	- 11.7
	Natural gas use	[m3/yr]	348,218	245,689	102,529	29.4
GHG emissions	Electricity GHG emissions	[tCO2e/yr]	89	106	-17	-19.1
	Natural gas GHG emissions	[tCO2e/yr]	665	469	196	29.5
	Carbon offsets	[tCO2e/yr]	0	0	0	-
	Total GHG emissions	[tCO2e/yr]	754	575	179	23.7
Utility cost	Electricity utility cost	[\$/yr]	419,892	499,533	- 79,641	-19.0
	Natural gas utility cost	[\$/yr]	72,851	51,401	21,450	29.4
	Federal carbon charge	[\$/yr]	13,302	9,385	3,917	29.4
	Carbon offsets	[\$/yr]	0	0	0	-
	Total utility cost	[\$/yr]	506,045	560,320	- 54,275	-10.7
Financial	Capital budget	[\$]	-	155,000	-	-
	Total project cost	[\$]	-	714,780	-	-
	Incremental project cost	[\$]	-	559,780	-	-
	Life cycle cost	[\$]	-	-1,236,939	-	-

Life cycle cost [\$] - -1,236,939 - - -The information in the Utility use, GHG emissions, and Utility cost sections are relative to the 2019 energy baseline. For the last Financial section, LCCA analysis is done from 2024-2054. This is to address the inherent inconsistency of wanting to compare energy savings to a past baseline while wanting to estimate the financials of the measure implementation in

to compare energy s the future.

August 25, 2022

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Table 63: Analysis results summary

MARKHAM 2024 PROJECT FUND	DING REQUEST FORM Num	ber: 24129
Project Name: Contamial C.C. Deal Heat Eucheman D	Project Cos	t: \$61,600
Project Name: Centennial C.C. Pool Heat Exchanger Re		Repair/Replace
Commission: Community Services	Useful Life: 15	5 Pre Approval:
Department: <u>Recreation Services</u> Project Mgr: Luke Hilts	Category: Minor	**
Ward(s): $CW \square 1 \square 2 \square 3 \checkmark 4 \square$	Cost Validation: Third party est	imate
	Requirement Validation: Condition asset	ssment
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?	
This project is to replace two (2) heat exchangers in the men's an exchangers are used to maintain pool temperatures and supplies l	e	1

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BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting: Contingency %: 10 Sub Total:	2024 55,000 0 5,500 60,500	Future Phases 0 0 0 0 0 0 0 0 0	condition a	ssessment of t at is warranted	exchangers were installed he pool heat exchangers in . The amount requested is o	dicates
HST Impact: Total Project Cost:	1,065 61,600	0				
SOURCE(S) OF FUNDING	<u> (\$)</u>		Comj	ponents		- D (
<u>Funding Type</u>	Budget	<u>et</u>			TOTA	<u>Future</u> L <u>Phases</u>
Operating Funded Life Cycle	61,600	0	0	0	0 0	0
TOTAL FUNDING	61,600					0 0
OPERATING BUDGET IN	MPACT Per			Revenues	Expenditures/(Revenue	s)
DCA/LIFE CYCLE DETA	ILS	\$0 \$	0	\$0	\$0	
DCA Name		Ye	ar Amount	Amount in ^t Study	Life Cycle — Amount in Study:	1,760,100
					Amount Incl HST Year in the study	61,600 2024

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

2024 PROJECT FUNL	DING REQUEST FORM Number:	24130
Project Name: Centennial C.C. Pool Maintenance Equi		\$23,500
Commission: <u>Community Services</u> Department: <u>Recreation Services</u> Project Mgr: Luke Hilts	Useful Life: 7 Category: Minor	r/Replace Pre Approval:
Ward(s): $_{CW}$ \square $_{1}$ \square $_{2}$ \square $_{3}$ \checkmark $_{4}$ \square $_{5}$ \square $_{6}$ \square $_{7}$ \square $_{8}$ \square DETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: Third party estimate Requirement Validation: Condition assessme ITS Involved Project: Is ITS Consulted?	

This project is to replace one (1) power washer and one (1) pool vacuum. The power washer and pool vaccum are used to maintain cleanliness on the pool deck, changerooms and pool basin within Centennial C.C.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES The existing power washer and vaccum were purchased in 201
Cost/Quote:	23,100	0	condition assessment indicated that replacement is warranted.
Internal Charges:	0	0	amount requested is consistent with recent quote.
External Consulting:	0	0	
Contingency %: 0	0	0	
Sub Total:	23,100	0	
HST Impact:	407	0	
Total Project Cost:	23,500	0	

SOURCE(S) OF FUNDING (\$)		Components						
Funding Type	Budget	Pool Vacuum	Power Washer			<u>TOTAL</u>	<u>Future</u> Phases	
Operating Funded Life Cycle	23,500	7,751	15,749	0	0	23,500	0	
TOTAL FUNDING	23,500				=	23,500	0	

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

DCA		Amount in	Life Cycle	
Name	Year Amoun	t Study	Amount in Study:	1,760,100
			Amount Incl HST	23,500
			Year in the study	2024
	if there is a change in the year and/or cost			

2024 PROJECT FUNDING REQUEST FORM

MARKHAM	2024 PROJ	ECT FUNDI	NG REQUES	T FORM	Number:	24131
Project Name: C. (Proje	ct Cost:	\$1,250,100
Project Name: Centennia	al C.C. Refrigera	ation System Rep	Diacement		Repair	/Replace
Commission: Community	Services			Useful Lif	e: 25	Pre Approval:
Department: <u>Recreation</u>	Services		Cat	tegory: Minor		F F
Project Mgr: <u>Luke Hilts</u>		<u> </u>		dation: Recent a	wards	
	2 3 2 4		Requirement Vali			nt
5	6 7 8		ITS Involved Proj			
DETAILED DESCRIPTIO			•			
This project is to replace are dentified refrigeration equip C.C. has been identified as a new system helps to achieve	oment work togethe Net Zero facility ar	r to create a solid, s nd has undergone a	afe and high-quality	ice surface for v	arious ice ac	ctivities. Centenni
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Safe &	Sustainable Communit	ty		
PROJECT COSTS (\$)	2024	Future Phases	NOTES			
Cost/Quote:	1,120,000	0	The existing three header pipes were			
Internal Charges:	0	0	life. Based on con			
External Consulting:	50,000	0	assessment report,			
Contingency %: 5	58,500	0	currently undergoi determine the appr			
Sub Total:	1,228,500	0	replacement project			
HST Impact:	21,622	0	quote.			
Total Project Cost:	1,250,100	0				
OURCE(S) OF FUNDING	G (\$)		Components	6		E (
unding Type	<u>Budget</u>	Compressors	Chiller	Condenser	Brine Cooler TC	<u>Future</u> DTAL Phases
perating Funded Life Cycle	1,250,100	450,000	300,000 218	3,100 282,	000 1,250	0,100
TOTAL FUNDING	1,250,100				1,25	0,100
OPERATING BUDGET IN	МРАСТ	rsonnel Non Pe \$0 \$		es Expend	itures/(Rev \$0	enues)
CA/LIFE CYCLE DETA	ILS					
<u>DCA</u> Name		Yea		unt in <u>L</u> udy	ife Cycle	
				An An	nount in Stu	dy: 3,166,200
				An	nount Incl H	ST 1,250,100
				Ye	ar in the stu	ıdy 2025
DCA and/or Life Cycle:	Explain if there is	a change in the yea	r and/or cost:			
DCA and/or Life Cycle.	Explain if there is	a change in the yea	ii and/or cost.			

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Table 7: Refrigeration compressor summary (continued)

Tag	Serves	Utility	Output
COMP3 CH1	lce cooling lce cooling brine chiller	Electricity -	50.0 -

Refrigeration plant Refrigeration for rink ice cooling is provided by an ammonia refrigeration plant. The plant consists of three compressors. The discharge of the compressors combine into a hot gas header. The hot gas header flows through an evaporative fluid cooler (EC1) to reject heat. A branch off the hot gas header flows through an ammonia-to-glycol heat exchanger (HX1) to recover heat; the recovered heat serves both under-slab heating and snow-melt. After being cooled, the ammonia is expanded to a low pressure. Cold, low-pressure liquid ammonia flows through an ammonia-to-glycol heat exchanger to cool the glycol (and the ammonia is evaporated in this process). The cold glycol circulates through a concrete slab below the ice pad to cool the ice. Cold refrigerant gas returns to the suction of the compressors to complete the refrigeration cycle.

Compressor jackets are cooled via a glycol loop, which runs between the compressors and EC1. Cooling water is circulated between a water storage tank (T1) and the evaporative fluid cooler (EC1).

The refrigeration plant is controlled as follows.

- Three temperature sensors are used to monitor ice temperature (Infrared, slab and glycol return). These sensors are prioritized in the order presented as to the reading used for control, in the event of error.
- The refrigeration system is controlled to maintain ice temperature setpoint.
- Ice temperature setpoint is presently set on a weekly schedule: 22 F (during day, games) and 23 F (during night).
- Cooling glycol pumps turn ON when the ice goes above setpoint; OFF when setpoint is achieved.
- Compressors are staged ON and OFF based on suction pressure setpoint (no compressor speed controls).
- The heat rejection system is controlled to maintain discharge pressure below a floating setpoint.
- The floating discharge pressure setpoint is determined based on wet bulb temperature with the intent of minimizing compressor energy use.
- The glycol heat rejection system is staged in the following order to maintain the floating discharge pressure setpoint.
- Glycol circulation pumps turn ON; fluid cooler fans turn ON; basin water circulation pumps turn ON.



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RTU8 RTU8 is a 100% OA, constant volume packaged rooftop unit with natural gas-fired heating and DX cooling that provides ventilation, heating and cooling to the women's fitness centre change rooms. The operating schedule is likely to match that of the space operation (e.g. ON at 6 AM, OFF at midnight, daily), though this is not confirmed due to issues with the BAS head-end server.

HP1-HP22 (Water source heat pumps) HP1-HP22 are water-source heat pumps (WSHPs), which provide space heating and cooling throughout the non-rink spaces. Ventilation air from ERV1-ERV3 is ducted into the return of the WSHPs. Each WSHP is controlled by its own thermostat located in the space it serves. WSHP fans are singlespeed and are believed cycle ON and OFF to maintain space temperature setpoint (some units appeared to be in 'auto' mode on the BAS).

AHU1 and Munters (Pool HVAC) AHU1 is a constant volume, mixed air unit with hot water heating coils and no cooling that serves the pool space. AHU1 has two OA intakes: one is for direct outside air, the second is from the discharge of the Munters unit, located on the roof. The Munters unit contains a desiccant wheel and DX cooling for refrigeration to control humidity. Plain English control sequences obtained from the BAS indicate that the system is used to control to a user-defined space humidity setpoint. The units initially operated on a schedule (approx 6 AM to midnight): existing operation cannot be confirmed due to communication issues with the head-end BAS server. The BAS includes return air temperature (RAT) and humidity (RAH) analog input points, and a supply air temperature (SAT) analog output point. The BAS also includes RAT and RAH setpoints. It is believed that the SAT is controlled based on RAT and RAT setpoint, and that both the mixed air dampers and Munters unit are controlled based on RAH and RAH setpoint. Also, both AHU1 supply and return fans have VFDs, but there are no output points for them in the BAS; they are assumed to be used for balancing only.



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4.18 Refg plant upgrade - NH3

Measure description

Existing condition

The refrigeration plant consists of three reciprocating ammonia compressors that stage ON and OFF to maintain suction pressure. Compressors are constant speed. The refrigeration plant includes heat recovery for under-slab heating and snow-melt.

Capital renewal plan

The capital renewal plan for the equipment affected in this measure was obtained from documentation provided by City of Markham and is summarized as follows.

- Expected life. 23 years.
- Renewal schedule. 2022.
- **Renewal cost**. \$1,221,153.

Potential action

Upgrade refrigeration system to incorporate variable speed screw compressors as a method to improve compressor COP.

Utility-savings mechanism

Reduced refrigeration compressor energy use due to increased average energy-efficiency (COP) of compressors.

Scope of Implementation

This measure considers replacing the existing compressors with high-efficiency screw compressors at the end of their useful lives. Please find a proposal from CIMCO in the Appendix, which provides detail on the proposed solution and project cost estimate.

Project Cost Estimate

Project cost estimates are summarized as follows:

Line item	Unit	Value
New screw compressors (supply and install)	[\$]	580,000
Other equipment lifecycle renewal (supply and install)	[\$]	890,000
Contingency	[\$]	147,000
Subtotal (Construction)	[\$]	1,617,000
Engineering Design and Field Review	[\$]	113,190
PM, CM, Commissioning, M&V, Performance Guarantee	[\$]	113,190
Subtotal (Construction + Design + Management)	[\$]	1,843,380
HST	[\$]	0
Total	[\$]	1,843,380

Table 49: Project cost estimate

Due to impacts of COVID-19, there is significant volatility in market conditions that affect project cost on an ongoing basis. Also, HST is intentionally set to zero.

Utility analysis

Baseline: Refrigeration plant COP of 2 is assumed. Proposed: Refrigeration plant COP of 2.5 is assumed. Analysis results are summarized in the following table.

Category	Description	Unit	Baseline	Proposed	Reduction	Reduction (%)
Utility use	Electricity use from grid	[kWh/yr]	2,741,614	2,620,330	121,284	4.4
	Electricity peak (avg)	[kW]	478	460	18	3.8
	Natural gas use	[m3/yr]	348,218	348,218	0	0.0
GHG emissions	Electricity GHG emissions	[tCO2e/yr]	89	85	4	4.5
	Natural gas GHG emissions	[tCO2e/yr]	665	665	0	0.0
	Carbon offsets	[tCO2e/yr]	0	0	0	-
	Total GHG emissions	[tCO2e/yr]	754	750	4	0.5
Utility cost	Electricity utility cost	[\$/yr]	419,892	401,317	18,575	4.4
	Natural gas utility cost	[\$/yr]	72,851	72,851	0	0.0
	Federal carbon charge	[\$/yr]	13,302	13,302	0	0.0
	Carbon offsets	[\$/yr]	0	0	0	-
	Total utility cost	[\$/yr]	506,045	487,470	18,575	3.7
Financial	Capital budget	[\$]	-	1,221,153	-	-
	Total project cost	[\$]	-	1,843,380	-	-
	Incremental project cost	[\$]	-	622,227	-	-
	Life cycle cost	[\$]	-	-81,560	-	-

Table 50: Analysis results summary

The information in the Utility use, GHG emissions, and Utility cost sections are relative to the 2019 energy baseline. For the last Financial section, LCCA analysis is done from 2024-2054. This is to address the inherent inconsistency of wanting to compare energy savings to a past baseline while wanting to estimate the financials of the measure implementation in the future.

August 25, 2022



2024 PROJECT FUNDING REQUEST FORM

MARKHAM

Number:	24132

Drainat Nama, Cl. (• F	• • • • • • • •			Project (Cost:	\$8,700
Project Name: Clatworth	iy Arena Expan	sion joint Refu	roisnment			Repair/R	eplace
Commission: Community	Services			I	Useful Life:		re Approval:
Department: <u>Recreation</u>				Category:		50 11	
Project Mgr: Martin Bar	row		C	• •		4 : 4 -	
Ward(s): $CW \square 1 \checkmark$	2 3 4			ost Validation:			
5	6 7 8		-	ent Validation:	-		
DETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):	ITS Involv	ed Project: Is	ITS Consulte	ed?∟	
This project is to refurbish the a continuous fashion. During oints are called expansion jo foam bead and then caulking exposure to the elements, rec	construction, wall bints and allow for to maintain the in quiring the joints to	s are built in sections small movement (tegrity of the wall be refurbished.	ons with vertic expansion and system. Over t	al joints joinin contraction) o ime the caulkin	g the aforem f the wall sec	entioned sec ctions. Joint	ctions. These s are filled with
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Safe &	& Sustainable Co	ommunity			
PROJECT COSTS (\$)	2024	Future Phases	NOTES				
Cost/Quote:							stalled in 1981.
	8,550	0		ng has dried ou of the joints in			A condition warranted. The
Internal Charges: External Consulting:	0 0	0 0		uested is cons			
Contingency %: 0	0	0					
Sub Total:	8,550	0					
HST Impact:	150	0					
Total Project Cost:	8,700						
	0,700	0					
OURCE(S) OF FUNDING	<u> (\$)</u>		Com	ponents			— Future
unding Type	Budget					<u>TOT</u>	
perating Funded Life Cycle	8,700	0	0	0	()	0
TOTAL FUNDING	8,700						0
OPERATING BUDGET IN	APACT Per	rsonnel Non P	ersonnel	Revenues	Expenditu	res/(Revenu	ues)
JPERATING DUDGET II	MFACI	\$0	\$0	\$0		\$0	
CA/LIFE CYCLE DETA	<u>ILS</u>						
DCA				Amount in	Life	Cycle	
Name		Ye	ear Amoun	t Study	— Amou	int in Study:	283,700
						nt Incl HST	
					Year	in the study	2024
DCA and/or Life Cycle:	Explain if there is	a change in the ye	ear and/or cost				
Thursday, January 11, 2024 13:34							

2024 PROJECT FUNDING REQUEST FORM Number: 24133 Project Cost: \$25,000

Project Name: Clatworthy Arena Front Entrance Concr	ete Replacement
	Repair/Replace
Commission: Community Services	Useful Life: 15 Pre Approval:
Department: <u>Recreation Services</u>	
Project Mgr: Martin Barrow	Category: Minor
Ward(s): $CW \square 1 \checkmark 2 \square 3 \square 4 \square$	Cost Validation: Recent awards
	Requirement Validation: Condition assessment
5 6 7 8	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \square

This project is to replace the existing exterior front entrance concrete slab at Clatworthy Arena. To maintain the safety of the community, it is important that entrances and walkways are accessible and are in good condition. The work includes; material, labour and all other trades required for the work.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting: Contingency %: 0 Sub Total:	2024 24,600 0 0 24,600	Future Phases 0 0 0 0 0 0 0 0 0 0 0 0	NOTES The existing concrete at the front entrance is original and was installed in 1981. The concrete has heavily spalled and degraded over years of use. Based on condition assessment, the existing entrance warrants replacement. Cost per sq. ft. of concrete include labour is \$31.72 and 788 sq. ft. has been identified to be replace \$31.72 x 788 sq. ft. = \$24,995. The amount requested is consist with recent award.
-	24,600	0	
HST Impact: _ Total Project Cost: _	25,000	0	

SOURCE(S) OF FUNDING (\$) Components Future Funding Type Phases **Budget** TOTAL Operating Funded Life Cycle 25,000 0 0 0 0 0 0 0 **TOTAL FUNDING** 25,000 0

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

DCA	Amoun	
Name	Year Amount Stud	Mount in Study: 283,700
		Amount Incl HST 25,000
DCA and/or Life Cvcle: Explain	if there is a change in the year and/or cost:	Year in the study 202
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 202
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 202

MARKHAM 2024 PROJECT FUNI	DING REQUEST FOR	M Nu	mber:	24134
Project Name: Clatworthy Arena Ice Equipment Repla		Project C	Cost:	\$9,600
			Repair/	Replace
Commission: Community Services	Uset	ful Life:	8	Pre Approval:
Department: <u>Recreation Services</u> Project Mgr: Martin Barrow	Category: Mi	inor		
Ward(s): $CW \square 1 \blacksquare 2 \square 3 \square 4 \square$	Cost Validation: Th	nird party	estimate	
	Requirement Validation: Co	ndition as	sessment	t
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS	Consulted	<u>1?</u>	

This project is to replace one (1) ice edger and one (1) hose reel at Clatworthy Arena. The equipment is used by staff to maintain ice quality and operation.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The existing items were purchased in 2016 (Ice Edger) and 199
Cost/Quote:	9,480	0	(Hose Reel). A condition assessment of the ice equipment indication
Internal Charges:	0	0	replacement is warranted. The amount requested is consistent w
External Consulting:	0	0	recent quotes.
Contingency %: 0	0	0	
Sub Total:	9,480	0	
HST Impact:	167	0	
Total Project Cost:	9,600	0	

SOURCE(S) OF FUNDING (\$)		Components						
Funding Type	Budget	Ice Edger	Hose Reel			<u>TOTAL</u>	<u>Future</u> Phases	
Operating Funded Life Cycle	9,600	6,600	3,000	0	0	9,600	0	
TOTAL FUNDING	9,600				=	9,600	0	

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

<u>DCA</u>		Amount in	Life Cycle		
Name	Year Amount	Study	Amount in Study:	283,700	
			Amount Incl HST	9,600	
			Veen in the studen	202	
	· (d		Year in the study	202	
DCA and/or Life Cycle: Explai	n if there is a change in the year and/or cost:		Year in the study	202	
DCA and/or Life Cycle: Explai	n if there is a change in the year and/or cost:		Year in the study	202	

WARKHAM 2024 PROJECT FUNL	DING REQUEST FORM Number: 24135
Project Name: Clatworthy Arena Rubber Floor Replac	ement Project Cost: \$222,700 Repair/Replace
Commission: Community Services Department: Recreation Services Project Mgr: Martin Barrow	Useful Life: 15 Pre Approval:
Ward(s): $_{CW}$ \square $1 \checkmark 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: Third party estimate Requirement Validation: Condition assessment ITS Involved Project: Is ITS Consulted?
This project is to replace existing rubber flooring in the arena an	d arena dressing room within Clatworthy Arena. The replacement in the arena and dressing rooms, players benches and lobby. Rubber istant, durable and able to withstand heavy impact.

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BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Existing rubber flooring is a patchwork of old flooring and v
Cost/Quote:	198,990	0	installed in 2009. A condition assessment of the flooring indi
Internal Charges:	0	0	replacement is warranted. The amount requested is consistent recent award.
External Consulting:	0	0	recent award.
Contingency %: 10	19,899	0	Rubber Flooring costs \$16.56 per sq ft including labour x 12,
Sub Total:	218,889	0	ft = \$198,990.
HST Impact:	3,852	0	
Total Project Cost:	222,700	0	

SOURCE(S) OF FUNDING	(\$)		Compon	ents			Futuro
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	222,700	0	0	0	0	0	0
TOTAL FUNDING	222,700					0	0

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

DCA	Amount in	Life Cycle
Name	Year Amount Study	Amount in Study: 283,700
		Amount Incl HST 222,700
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024

2024 PROJECT FUND	ING REQUEST FORM Number:	24136
Project Name: Clatworthy Arena Window Refurbishme	Project Cost:	\$12,000
	Repair/I	Replace
Commission: Community Services	Useful Life: 30	Pre Approval:
Department: Recreation Services		i ie Appiovai. 🗠
Project Mgr: Martin Barrow	Category: Minor	
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Third party estimate	
	Requirement Validation: Other(specify in Note	s)
5 6 7 8		<u> </u>
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box	

This project is to replace two (2) security roll up gates used at the snack bar with windows at Clatworthy Arena. In 2019, the unused snack bar at Clatworthy Arena was converted to an office space for staff. The conversion provided the facility team with much needed office space. The unused snack bar has two serving openings that face into the lobby and viewing area. The service openings are closed with a roll down security gate. The conversion from a roll up gate to windows allow users and public to gain better access to staff. It also provides staff oversight and a line of sight into the main lobby area.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Existing snack	bar roll down	grates are or	iginal to the b	uilding
Cost/Quote:	11,800	0	(1981). A cond				
Internal Charges:	0	0	warrants replace				
External Consulting:	0	0	structural revie requested is co			site visits. Th	ne amount
Contingency %: 0	0	0	requested is co		ecent quote.		
Sub Total:	11,800	0					
HST Impact:	208	0					
Total Project Cost:	12,000	0					
SOURCE(S) OF FUNDING	G (\$)		Compone	ents			F
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> Phases
Operating Funded Life Cycle	12,000	0	0	0	0	0	0
TOTAL FUNDING	12,000				=	0	0

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

DCA		nount in	Life Cycle		
Name	Year Amount S	Study	Amount in Study:	283,700	
			Amount Incl HST	12,000	
				202	
)CA and/or Life Cvcle: Explair	n if there is a change in the year and/or cost:		Year in the study	202	
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cost:		Year in the study	2024	
DCA and/or Life Cycle: Explair	n if there is a change in the year and/or cost:		Year in the study	2024	

2024 PROJECT FUNDI	NG REQUEST FORM Number:	24137
Project Name: Cornell C.C. Carpet Replacement	Project Cost:	\$172,400
	Repair	r/Replace
Commission: Community Services Department: Recreation Services Project Mgr: Luke Hilts	Useful Life: 10 Category: Minor	Pre Approval:
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$ $5 \checkmark 6 \square 7 \square 8 \square$	Cost Validation: Third party estimate Requirement Validation: Condition assessment	
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?	

This project is to replace the carpet on the second floor of the Library, rehearsal rooms, front office and staff offices at Cornell C.C. Approximately 22,000 sq. ft. of carpetting is to replaced. Carpet is preferred flooring for library space, because it is water resistant and provides better acoustics.

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PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The existing carpeting is original and was installed in 2012
Cost/Quote:	154,000	0	condition assessment indicates that replacement is warrante
Internal Charges:	0	0	amount requested is consistent with recent quote.
External Consulting:	0	0	Cost per sq. ft. of carpet plus labour is \$7.00 x 22,000 sq. f
Contingency %: 10	15,400	0	\$154,000
Sub Total:	169,400	0	
HST Impact:	2,981	0	
Total Project Cost:	172,400	0	

SOURCE(S) OF FUNDING	<u>(\$)</u>		Compone	ents			F
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	172,400	0	0	0	0	0	0
TOTAL FUNDING	172,400					0	0

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

<u>DCA</u>		Amount in	Life Cycle		
Name	Year Amour	t Study	Amount in Study:	834,400	
			Amount Incl HST	172,400	
			Year in the study	2024	
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cost	:			
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cos	:			

2024 PROJECT FUNDING REQUEST FORM

MARKHAM

24138 Number:

Project Cost:

Droject Name: C		· • • • •				Project (Cost:	\$455	,700
Project Name: Cornell C.	0	ucture An	inual Mai	ntenance			Repair	/Replace	;
Commission: Community					τ	Useful Life:	1	-	oroval: 🗌
Department: <u>Recreation S</u>	Services				Category:			r'	-
Project Mgr: <u>Luke Hilts</u>				Co	st Validation:	-	er review	/	
	2 3 4]		t Validation:				
	6 7 8		1	-	d Project: Is		_		
DETAILED DESCRIPTIO		,	÷					1.	. 1
An annual program has been in 2020 to complete a fulsome assets to replace in any specif maintanence in removal of loo from further deterioration. BUILDING MARKHAM'S	e audit of the park ic year. In 2024, ose overhead cond	ting structu the report 1 crete. More	re. Within the recommends e specificall	he report, it the replace	outlines a 10 ement of the p ast panels will	year recomm precast wall p	nendation anels an	n outlini d to cont	ng specific inue
				NOTES					
PROJECT COSTS (\$)	<u>2024</u>	<u>Future I</u>		NOTES A consultan	t was retained	l in 2020 and	provideo	1 a repor	t outlining
Cost/Quote:	407,800		0 r	ecommenda	ations in mair	ntaining the p	arking ga	arage at (Cornell C.C
Internal Charges:	40,700				program is to vall panel and				
External Consulting:	0		0		ogram and fu				5. 11115 15
Contingency %: 0	0		0						
Sub Total:	448,500		0						
HST Impact:	7,177		0						
Total Project Cost:	455,700		0						
SOURCE(S) OF FUNDING	(\$)			Comp	onents				Future
Funding Type	<u>Budget</u>						<u>T(</u>)TAL	Phases
Operating Funded Life Cycle	455,700		0	0	0	0)	0	(
TOTAL FUNDING	455,700							0	(
OPERATING BUDGET IN	IPACT Per	rsonnel	Non Perso	nnel R	evenues	Expenditu	es/(Rev	enues)	
		\$0	\$0		\$0		\$0		
DCA/LIFE CYCLE DETAI	<u>LS</u>								
DCA					Amount in	Life	Cycle		
Name			Year	Amount	Study	– Amou	nt in Stu	dy: 1	531,200
							nt Incl H		456,400
						Year	in the stu	ıdv	2025
	F 1 · · · · · ·			1/ .				J	
DCA and/or Life Cycle:	Explain if there is	a change 1	n the year a	nd/or cost:					
Thursday, January 11, 2024 13:34									

2024 PROJECT FUNDING REQUEST FORM

MARKHAM	2024 PROJ	ECT FUNDI	NG REQU	EST FORM	M Number:	24139
Project Name: Council C	C. Dool Monhor	ical System Don	laaamant]	Project Cost:	\$264,100
Project Name: Cornell C		iicai system kep	lacement		Repair	/Replace
Commission: <u>Community</u>				Usef	ul Life: 8	Pre Approval:
Department: <u>Recreation</u> Project Mgr: Luke Hilts	Services			Category: Mi	nor	
, , ,	2 3 4		Cost	Validation: Th	ird party estimate	
	2 □ 3 □ 4 □ 6 □ 7 □ 8 □		Requirement	Validation: Co	ndition assessmen	t
DETAILED DESCRIPTIO		ROJECT):	ITS Involved	Project: Is ITS	Consulted? \Box	
This project is to replace var lap pool pump, (2) perimetre therapy pool UV sanitizer. F evenly through the pool, whi While the UV pool system u and easier to maintain. Addi BUILDING MARKHAM	heating pumps, or Pool pumps are crit ch then sanitizes th tilizes UV light to l tional UV pools sy	e (1) lap pool ultra ical to pool operation water effectivel and ower chemical cont estem destroy pathog	violet (UV) san ons and creates and move debris ent and elimina	hitizer, one (1) le the flow of wate through the circ the chlorine bypr water and reduc	eisure pool UV sar r that allows chem sulation system and oducts, making po	nitizer and one (1) nicals to circulate d out of the pool. pols safer, healthier
PROJECT COSTS (\$)	2024	Future Phases	NOTES			
Cost/Quote:	235,900	0			vstems were install d that replacement	t is warranted. The
Internal Charges:	0	0			nt with recent quot	
External Consulting:	0	0				
Contingency %: 10	23,590	0				
Sub Total:	259,490	0				
HST Impact:	4,567	0				
Total Project Cost:	264,100	0				
SOURCE(S) OF FUNDING	G (\$)		Compo	nents		— Future
<u>Funding Type</u>	Budget	UV Systems	Pumps	Contingency	<u>T0</u>	<u>TAL</u> Phases
Operating Funded Life Cycle	264,100	115,948	124,147	24,005	0 264	,100 0
TOTAL FUNDING	264,100				264	4,100 0
OPERATING BUDGET IN DCA/LIFE CYCLE DETAI	МРАСТ	sonnel Non Per \$0 \$0		venues Ex \$0	penditures/(Reve \$0	nues)
DCA				Amount in	Life Cycle	
Name		Yea	r Amount	Study	Amount in Stud	ły: 834,400
					Amount Incl HS	
					Year in the stu	
DCA and/or Life Cycle:	Explain if there is	a change in the year	r and/or cost:			

				Project Co	ost: \$5	6,100
Project Name: Crosby C	.C. Arena Board	ds Replacement		Ū	Repair/Repla	· · · · · · · · · · · · · · · · · · ·
Commission: Community	y Services		T la	eful Life:		pproval:
Department: <u>Recreation</u>	Services		Category: 1			appiovai. —
Project Mgr: <u>Scott Hill</u>			Cost Validation:		10	
	2 3 ✓ 4		Requirement Validation:			
5 DETAILED DESCRIPTIC	6 7 8		ITS Involved Project: Is IT			
his project is to replace the 00 ft of arena dasher board BUILDING MARKHAM'	s. Arena boards pro	ovide a safe enviro	rink at Crosby C.C. The repla- nment for arena users.	cement will c	comprise of ap	pproximately
	STUTURE TOO	ETHER, Sale 6	_			
PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES Existing arena boards were	replaced in 2	2010 at Crosb	v C.C. A
Cost/Quote:	50,100	0	condition assessment indica	ates that repla	acement is wa	rranted. The
Internal Charges:	0	0	amount requested is consist inflation.	tent with rece	ent staff award	ls plus
External Consulting:	0	0				
Contingency %: 10	5,010	0				
Sub Total:	55,110	0				
HST Impact:	970 56,100	0				
Total Project Cost:	00,100					
Total Project Cost: = OURCE(S) OF FUNDING	; (\$)		Components			
OURCE(S) OF FUNDING	<u>G (\$)</u> <u>Budget</u>		Components		<u>TOTAL</u>	<u>Future</u> Phases
= OURCE(S) OF FUNDING unding Type		0	Components 0 0	0	<u>TOTAL</u> 0	Phases
= OURCE(S) OF FUNDING	Budget	0	*	0		
OURCE(S) OF FUNDING Derating Funded Life Cycle TOTAL FUNDING DPERATING BUDGET II	Budget 56,100 56,100 56,100 Per	rsonnel Non P	0 0	Expenditure	0	Phases 0 0
CURCE(S) OF FUNDING Cunding Type Deperating Funded Life Cycle TOTAL FUNDING DPERATING BUDGET IN DCA/LIFE CYCLE DETA	Budget 56,100 56,100 56,100 Per	rsonnel Non P	0 0 ersonnel Revenues	Expenditure	0 0 s/(Revenues)	Phases 0
= OURCE(S) OF FUNDING unding Type perating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET II CA/LIFE CYCLE DETA DCA	Budget 56,100 56,100 56,100 Per	rsonnel Non Po \$0 \$	0 0 ersonnel Revenues 50 \$0 Amount in	Expenditure	0 0 s/(Revenues) 0	Phases 0
= OURCE(S) OF FUNDING perating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET II	Budget 56,100 56,100 56,100 Per	rsonnel Non Po \$0 \$	0 0 ersonnel Revenues	Expenditure \$ <u>Life C</u>	0 0 s/(Revenues) 0	Phases 0
OURCE(S) OF FUNDING Deperating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET II OCA/LIFE CYCLE DETA DCA	Budget 56,100 56,100 56,100 Per	rsonnel Non Po \$0 \$	0 0 ersonnel Revenues 50 \$0 Amount in	Expenditure \$ Life C Amoun	0 0 s/(Revenues) 0 <u>vcle</u>	<u>Phases</u> (0

2024 PROJECT FUND	DING REQUEST FORM Number:	24141
Project Name: Crosby C.C. Painting Project	Project Cost:	\$55,600
	Repai	ir/Replace
Commission: Community Services	Useful Life: 10	Pre Approval:
Department: <u>Recreation Services</u>		rie rippiovai.
Project Mgr: Scott Hill	Category: Minor	
Ward(s): $CW \square 1 \square 2 \square 3 \checkmark 4 \square$	Cost Validation: Recent awards	
	Requirement Validation: Condition assessme	ent
5 4 6 7 8 4	ITS Involved Project: Is ITS Consulted?	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	115 Involved Floject: Is 115 Consulted?	

This project is to paint arena block walls, all offices, the Unionville Skating Club's coach's room, the south boardroom, the west lobby area, five (5) arena dressing rooms and the east lobby in Crosby C.C. The upkeep and maintenance of the facility helps to maintain the City's standards.

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PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting: Contingency %: 0	<u>2024</u> 54,650 0 0	Future Phases 0 0 0 0 0	NOTES The Crosby C.C. interior spaces were last painted over 10 years ago. Based on a condition assessment, the paint has deteriorated and requires repainting. Cost per sq. ft. of paint including labour is \$3.93 per sq ft, there is 14,152 sq. ft. of space that has been identified to be repainted, $3.93 \times 14,152 \text{ sq ft} = $55,592$. The amount requested is consistent with recent staff award plus inflation
Sub Total:	54,650	0	
HST Impact:	962	0	
Total Project Cost:	55,600	0	

SOURCE(S) OF FUNDING (S	<u>\$)</u>		Compon	ents			Futuro
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> Phases
Operating Funded Life Cycle	55,600	0	0	0	0	0	0
TOTAL FUNDING	55,600					0	0

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

DCA	Amount in	Life Cycle	
Name	Year Amount Study	Amount in Study:	179,800
		Amount Incl HST	55,600
DCA and/or Life Cycle: Explain it	f there is a change in the year and/or cost:	Year in the study	2024
DCA and/or Life Cycle: Explain it	f there is a change in the year and/or cost:	Year in the study	202

	Project Cost: \$64,500
Project Name: Crosby C.C. Windows Replacement	Repair/Replace
Commission: <u>Community Services</u> Department: <u>Recreation Services</u>	Useful Life: 25 Pre Approval:
Project Mgr: <u>Scott Hill</u>	Category: Minor
Ward(s): $_{CW}$ \square $_1$ \square $_2$ \square $_3$ \checkmark $_4$ \square	Cost Validation: Third party estimate
5 6 7 8 1 2 3 1 2 3 1 3 3 3 3 3 3 3 3	Requirement Validation: Condition assessment
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The existing window panes at Crosby C.C. are over 25 years
Cost/Quote:	54,864	0	condition assessment indicates that replacement is warranted
Internal Charges:	0	0	of the windows are original to the renovation in the 1970s. T
External Consulting:	4,410	0	project will remove and replace existing window glass panes units, the areas to be completed are Lamplight Room window
Contingency %: 7	4,149	0	sliding doors located in upper office within Lamplight Room
Sub Total:	63,423	0	windows at the front of the facility, including three windows
HST Impact:	1,116	0	in the staff offices and the boardroom. The amount requested consistent with the recent quote.
Total Project Cost:	64,500	0	consistent with the recent quote.

SOURCE(S) OF FUNDING (\$) Components <u>Future</u> Funding Type Phases TOTAL **Budget** 0 0 Operating Funded Life Cycle 64,500 0 0 0 0 TOTAL FUNDING 64,500 0 0

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

Name	Year Amount Study		1 = 2 . 2 . 2
		- Amount in Study:	179,800
		Amount Incl HST	64,500
		Year in the study	202

MARKHAM 2024 PROJECT FUND	DING REQUEST FORM Number	: 24143
Project Name: Heintzman House Basement Carpet Rep	Project Cost:	\$18,500
		ir/Replace
Commission: Community Services	Useful Life: 20	Pre Approval:
Department: <u>Recreation Services</u>		i ie Appiovai. —
Project Mgr: Martin Barrow	Category: Minor	
Ward(s): $_{CW} \square 1 \checkmark 2 \square 3 \square 4 \square$	Cost Validation: Third party estimat	e
	Requirement Validation: Condition assessme	ent
5 6 7 8	ITS Involved Project: Is ITS Consulted?	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	115 Involved Project: Is 115 Consulted?	

This project is to replace the carpet on the basement stairs and in the basement community room with vinyl plank flooring at the Heintzman House. The work requires removal of carpet on 19 stairs and to be replaced with approximately 1,017 sq. ft. of new vinyl plank flooring. The carpet replacement work will be done respecting the era of the house.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES Existing carpet flooring was installed in 1990 at Heintzman I
Cost/Quote:	18,200	0	A condition assessment of the flooring indicates replacement
Internal Charges:	0	0	warranted. In basement environments, vinyl plank flooring w
External Consulting:	0	0	more durable than carpet. The amount requested is consistent recent quote.
Contingency %: 0	0	0	recent quote.
Sub Total:	18,200	0	Cost of Vinyl Plank per sq. ft. including removal of material a
HST Impact:	320	0	labour is $12.64 \times 1,107$ sq. ft. = $14,000$. Cost per stair inclure removal of material, installation and labour is 221.05×19 st
Total Project Cost:	18,500	0	standard and rabour is $$221.03 \times 19$ st $$4,200$

SOURCE(S) OF FUNDING (\$)	Components							
Funding Type	<u>Budget</u>	flooring	stairs			<u>TOTAL</u>	<u>Future</u> Phases	
Operating Funded Life Cycle	18,500	14,227	4,273	0	0	18,500	0	
TOTAL FUNDING	18,500				-	18,500	0	
	<u> </u>							

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

Name Year Amount Study Amount in Study: 80,700 Amount Incl HST 18,500 Year in the study 2024 DCA and/or Life Cycle: Explain if there is a change in the year and/or cost: 2024			A	Amount in	Life Cycle		
Year in the study 2024	.r	ar	Amoun	t	Study		
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:							
	r anc	ar ar	d/or cost	:			

MARKHAM	2024 PROJECT FU	NDING REQUEST FORM	Number:	24144
Project Name: Hointame	an House Front Entrance St		roject Cost:	\$55,000
		one Kerurbishment	Repair	/Replace
Commission: <u>Communit</u>		Useful	Life: 40	Pre Approval:
Department: <u>Recreation</u> Project Mgr: Martin Bar		Category: Mine	or	
		Cost Validation: Thir	d party estimate	

Ward(s): $CW \square 1 \checkmark 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$

BUILDING MARKHAM'S FUTURE TOGETHER:

Requirement Validation: Condition assessment ITS Involved Project: Is ITS Consulted?

DETAILED DESCRIPTION (SCOPE OF PROJECT): This project is to refurbish the ornamental stonework at the front entrance of the Heintzman House. Work consists of repointing stone stairs, replacing stone caps and repointing existing masonry joints in front wall. The refurbishment work will be done respecting the era

of the house.

NOTES **PROJECT COSTS (\$) Future Phases** 2024 Existing stone features are from 1935 and are in need of 0 Cost/Quote: 49,100 refurbishment to maintain the integrity of the stonework. A condition assessment conducted by a historical restoration company 0 Internal Charges: 0 during repairs in 2022 determined that the refurbishment is needed. **External Consulting:** 0 0 The requested amount is consistent with recent quote. Contingency %: 10 0 4,910 Sub Total: 54,010 0 951 0 HST Impact: **Total Project Cost:** 0 55,000

Safe & Sustainable Community

	Components						
<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> Phases	
55,000	0	0	0	0	0	0	
55,000					0	0	
	55,000	55,000 0	Budget 55,000 0 0	Budget 0 0 0	Budget 0 <td>Budget TOTAL 55,000 0 0 0 0</td>	Budget TOTAL 55,000 0 0 0 0	

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

DCA	Amount in	Life Cycle		
Name Year Amount Stu	Year Amount Study	Amount in Study:	80,700	
		Amount Incl HST	55,000	
		Year in the study	2024	
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cost:			

DING REQUEST FO	<i>YRM</i>	Number:	24145
cement	Proje	ect Cost:	\$14,400
		Repair	/Replace
ι	Useful Li	fe: 25	Pre Approval:
Category:	Minor		
Cost Validation:	Third p	arty estimate	
Requirement Validation:	Conditi	on assessmer	nt
ITS Involved Project: Is I	ITS Cons	sulted?	
	cement Category: Cost Validation: Requirement Validation:	cement Useful Li Category: Minor Cost Validation: Third p Requirement Validation: Condition	cement Project Cost: Cement Repair Useful Life: 25

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The existing fire panel was installed in 1999. A condition
Cost/Quote:	12,300	0	assessment indicated that replacement is warranted. The a
Internal Charges:	0	0	requested is consistent with recent quote.
External Consulting:	599	0	
Contingency %: 10	1,290	0	
Sub Total:	14,189	0	
HST Impact:	250	0	
Total Project Cost:	14,400	0	

SOURCE(S) OF FUNDING (<u>\$)</u>	Components						
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> Phases	
Operating Funded Life Cycle	14,400	0	0	0	0	0	0	
TOTAL FUNDING	14,400					0	0	

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

DCA/LIFE CYCLE DETAILS

.....

DCA	Amoun	
Name	Year Amount Stud	y Amount in Study: 1,866,400
		Amount Incl HST 14,400
		Year in the study 2024
ICA and/or Life Cycle: Explain if the	here is a change in the year and/or cost:	

2024 PROJECT FUND	DING REQUEST FOR	RM Ni	umber:	24146
Project Name: Milliken Mills C.C. Ceiling Tile Replace	ment	Project (Cost:	\$279,100
			Repair	/Replace
Commission: Community Services	Us	eful Life:	20	Pre Approval:
Department: Recreation Services			20	
Project Mgr: <u>Ryan Hanna</u>	Category: N			
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation:	Third party	estimate	
	Requirement Validation: C	Condition a	ssessmen	t
5 🗌 6 🗌 7 🔲 8 🗹	ITS Involved Project: Is IT	'S Consulta	42	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	115 mored Project: Is 11	5 Consume	u: 🗆	

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This project is to replace the existing ceiling tiles in the Library, Lobby Corridor, Office, Storage Room, Meeting Room A & B, Dance Studio and North & South Hall at the Milliken Mills C.C. Ceiling tiles are used to cover unfinished ceilings, which are typically made from exposed concrete or metal beams. Ceiling tiles are designed to resist moisture, provide better access to the space above for maintenance, and are easily removable. Further, their properties enhance sound insulation which supports programs where noise control is important.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting: Contingency %: 10 Sub Total: HST Impact: Total Project Cost:	2024 249,300 0 24,930 274,230 4,826 279,100	<u>Future</u>	Phases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	assessme approxim sq. ft. inc protection 55,400 so	ing ceiling tile nt of the tiles i nately 55,400 s luding disposa n and after hou	es were installed in ndicate replaceme eq. ft. of ceiling tile al, labour, material urs work is \$4.50 p r sq. ft = $249,300$ uote.	ent is warrante es to be replac l, mobile equip per sq. ft.	d. There are ced. Cost per pment, floor
SOURCE(S) OF FUNDING	<u> (\$)</u> <u> </u>	t		Cor	nponents		TOTAL	<u>Future</u> Phases
Operating Funded Life Cycle TOTAL FUNDING	279,100 279,100		0	0	0	0	0 0	0 0
OPERATING BUDGET IN DCA/LIFE CYCLE DETA	МРАСТ	ersonnel \$0	Non Per \$(Revenues \$0	Expenditures, \$0		

		Amount in	Life Cycle	
Year A	mount	Study	Amount in Study:	383,300
			Amount Incl HST	279,100
			Year in the study	2024
				Year Amount Study Amount in Study: Amount Incl HST Amount Incl HST Year in the study Year in the study

2024 PROJECT FUNDING REQUEST FORM ARKHAM Number: 24147 **Project Cost:** \$24,600 Project Name: Milliken Mills C.C. Site Features Phase 1 of 2 - Design Repair/Replace Commission: Community Services Pre Approval: Useful Life: 40 Department: Recreation Services Category: Major Project Mgr: Ryan Hanna Cost Validation: Third party estimate Ward(s): CW 1 2 3 4 Requirement Validation: Condition assessment 5 6 7 8

ITS Involved Project: Is ITS Consulted?

DETAILED DESCRIPTION (SCOPE OF PROJECT): This project is to retain a landscape architect to complete a redesign and to replace the existing retaining wall in the East side at Milliken

Mills C.C. This project will be completed in two phases. Phase 1 of 2 will include a complete structural review of existing retaining wall, develop new design, create specifications and provide costing for phase 2. The focus of the design is to improve visibility thus increasing safety and to meet AODA Regulations. Phase 2 of 2 will include construction.

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PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The east retaining wall and the site features facing the east side of
Cost/Quote:	0	385,000	Milliken Mills C.C was originally constructed in 1982. A condition
Internal Charges: External Consulting: Contingency %: 0	0 24,200 0	0 0 0	assessment of the site features indicate that a redesign and replacement is necessary to create a more functional environment for users. Through the condition assessment, features show deterioration including cracks and broken concrete. The amount
Sub Total: HST Impact: Total Project Cost:	24,200 426 24,600	385,000 6,776 391,800	requested is consistent with recent quote.

SOURCE(S) OF FUNDING (\$)

Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> Phases
Operating Funded Life Cycle	24,600	24,600	0	0	0	24,600	391,800
TOTAL FUNDING	24,600				=	24,600	391,800

Components

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

<u>DCA</u> Name	Year Amoun	Amount in t Study	<u>Life Cycle</u>	
		Study	Amount in Study:	383,300
			Amount Incl HST	24,600
			Year in the study	2024
	·C.1 · 1 · 1 1/			
DCA and/or Life Cycle: Explai	n if there is a change in the year and/or cost	•		
DCA and/or Life Cycle: Explai	n if there is a change in the year and/or cost			



MARKHAM 2024 PROJECT FUN	DING REQUEST FORM Number: 24148	
Project Name: Milliken Mills Soccer Dome LED Light	Project Cost: \$101,000	
	Repair/Replace	
Commission: Community Services	Useful Life: 15 Pre Approval:	
Department: <u>Recreation Services</u> Project Mgr: Ryan Hanna	Category: Minor	
Ward(s): $_{CW} \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Third party estimate	
$5 \square 6 \square 7 \square 8 \checkmark$	Requirement Validation: Condition assessment	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box	
This project is to replace the existing LED Light Stand fixtures replacement will create more space along the sidelines, prevent	with ceiling hung LED fixtures at Milliken Mills Soccer Dome. This trip hazards and provide better lighting for participants.	3

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The existing Light Stand LED fixtures were installed in 2015. A
Cost/Quote:	99,300	0	condition assessment indicate that due to the placement and
Internal Charges:	0	0	proximity of the fixtures to the field, a relocation and replacement is warranted. Replacement includes: removal of existing fixtures,
External Consulting:	0	0	installation of 20 ceiling hung LED Lights, mobile equipment,
Contingency %: 0	0	0	patching, electrical wiring and labour. The amount requested is
Sub Total:	99,300	0	consistent with recent quote.
HST Impact:	1,748	0	
Total Project Cost:	101,000	0	

SOURCE(S) OF FUNDING (\$) Components <u>Future</u> Funding Type **TOTAL** Phases **Budget** Operating Funded Life Cycle 101,000 0 0 0 0 0 0 TOTAL FUNDING 101,000 0 0

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

DCA		Amount in	Life Cycle
Name	Year Amoun	t Study	Amount in Study: 103,000
			Amount Incl HST 101,000
			Year in the study 2024
CA and/or Life Cycle: Expla	in if there is a change in the year and/or cost	:	
DCA and/or Life Cycle: Expla	in if there is a change in the year and/or cost	:	
DCA and/or Life Cycle: Expla	in if there is a change in the year and/or cost	:	
DCA and/or Life Cycle: Expla	in if there is a change in the year and/or cost	:	

MARKHAM	2024 PROJ	IECT FUND	DING REQ	QUEST FO	<i>RM</i> N	umber:	24	4149
Project Name: Mount Joy	v C.C. Arena H	eating Replace	nent		Project (Cost: _	\$20	,900
Commission: Community		01				Repair	/Replac	e
Department: <u>Recreation S</u>				Ţ	Jseful Life:	15	Pre Ap	proval: 🗆
Project Mgr: <u>Luke Hilts</u>				Category:				
Ward(s): $_{CW} \square _1 \square$	2 3 4			Cost Validation:	1 7			
5 🗸	6 7 8		•	ent Validation:			t	
DETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):	ITS Invol	ved Project: Is l	TS Consulte	d? □		
This project is to replace five spectators, participants and an ensuring it remains at a suitab	rena user groups. ble level for the ac	The primary purp tivites taking plac	ose of arena h e.	eating is to regu	ilate the temp			
BUILDING MARKHAM'S	FUTURE TOG	ETHER: Exce	bilonal Services	by Exceptional F	reopte			
PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES	ng electric space	e heaters we	e installe	d in 20	00 A
Cost/Quote:	20,500	0	condition	assessment indi	cates that rep	olacement	is war	
Internal Charges:	0	0	amount re	quested is consi	stent with re	cent quot	e.	
External Consulting:	0	0						
Contingency %: 0	0	0						
Sub Total:	20,500	0						
HST Impact:	361	0						
Total Project Cost:	20,900	0						
SOURCE(S) OF FUNDING	(\$)		Con	ponents				Future
<u>Funding Type</u>	<u>Budget</u>					<u>T0</u>	TAL	Phases
Operating Funded Life Cycle	20,900	0	0	0	()	0	0
TOTAL FUNDING	20,900						0	0
OPERATING BUDGET IN DCA/LIFE CYCLE DETAI	1PACT	rsonnel Non F \$0	Personnel \$0	Revenues \$0	Expenditu	res/(Reve \$0	enues)	
DCA	<u>L5</u>			Amount in	T :£.	Cruele		
Name		Y	ear Amoui			<u>Cycle</u> int in Stuc	ły:	498,200
					Amou	nt Incl HS	ST	20,900
					Year	in the stu	dy	2024
DCA and/or Life Cycle:	Explain if there is	a change in the y	ear and/or cos	t:				

2024 PROJECT FUND	ING REQUEST FOR	RM N	umber:	24150
Project Name: Mount Joy C.C. Doors Replacement		Project	-	\$61,300 /Replace
Commission: Community Services Department: Recreation Services Project Mgr: Luke Hilts	Us Category: M	seful Life: Minor	25	Pre Approval:
Ward(s): $_{CW}$ \square $_{1}$ \square $_{2}$ \square $_{3}$ \square $_{4}$ \square $_{5}$ \checkmark $_{6}$ \square $_{7}$ \square $_{8}$ \square DETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation:	Condition a	assessmen	t

fire rated. The work includes labour to remove and dispose of the existing doors, supply and installation of new doors and door

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BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases
Cost/Quote: Internal Charges:	60,250 0	0 0
External Consulting: Contingency %: 0	0 0	0 0
Sub Total:	60,250 1,060	0
Total Project Cost:	61,300	0

SOURCE(S) OF FUNDING (\$)

hardware.

SOURCE(S) OF FUNDING (\$	<u>)</u>		Compon	ents			Euture
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	61,300	0	0	0	0	0	0
TOTAL FUNDING	61,300				=	0	0

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

Amount in Study: 498,200 Amount Incl HST 61,300	<u>DCA</u>		Amount in	Life Cycle	
Year in the study 202	Name	Year Amount	Study	Amount in Study:	498,200
				Amount Incl HST	61,300
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:				Year in the study	2024
	DCA and/or Life Cycle: Explain if	f there is a change in the year and/or cost:			
2024 PROJECT FUNDING REQUEST FORM

MARKHAM	2024 PRC	DJECT FUNDI	NG REQUEST FO	<i>RM</i> _N	umber:	24151
Drojant Nama: Marca I.		۸		Project (Cost:	\$265,800
Project Name: Mount Jo	y C.C. Indoor	Artificial Turi Ke	placement		Repair	r/Replace
Commission: Community	Services		т	Jseful Life:	10	Pre Approval:
Department: <u>Recreation</u>	Services		_		10	Pre Approvai:
Project Mgr: <u>Luke Hilts</u>			Category:	Minor		
Ward(s): $CW \square 1 \square$	2 3 4	1	Cost Validation:	Third party	estimate	:
			Requirement Validation:	Condition a	ssessmer	nt
DETAILED DESCRIPTIO			ITS Involved Project: Is I	TS Consulte	d?□	
This project is to replace the the Markham Soccer Club ar			Joy C.C. The indoor artifici	al soccer tur	f support	s community rentals,
BUILDING MARKHAM'	S FUTURE TO	GETHER: Excepti	onal Services by Exceptional P	eople		
PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The existing artificial turf	was installe	d in 2014	4 A condition
Cost/Quote:	230,600	0	assessment indicated that			
Internal Charges:	0	0	requested is consistent with			
External Consulting:	6,822	0	Cost per sq.ft. for artificia			val, material and
Contingency %: 10	23,742	0	labour is \$12.40 x 18,586	sy. 11. – \$23	0,000	
– Sub Total:	261,164	0				

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

Components

0

Consultant

6,970

0

0

Artificial Turf

258,830

DCA/LIFE CYCLE DETAILS

HST Impact:

Total Project Cost:

Operating Funded Life Cycle

TOTAL FUNDING

Funding Type

SOURCE(S) OF FUNDING (\$)

4,596

Budget

265,800

265,800

265,800

DCA	Α	mount in	Life Cycle	
Name	Year Amount	Study	Amount in Study:	498,200
			Amount Incl HST	265,800
			Year in the study	2024
CA and/or Life Cycle: Explain	if there is a change in the year and/or cost:			

<u>Future</u>

Phases

0

0

TOTAL

265,800

265,800

0

MARKHA	2024 PROJECT FU	NDING REQUEST FO	RM	Number:	24152
Project Name: P	an Am Centre Aerial Platform Lift	Ronlacomont	Projec	ct Cost:	\$20,000
—				Repair	/Replace
	ommunity Services	— U	Jseful Life	: 8	Pre Approval:
Department: <u>Re</u> Project Mgr: Ec	ccreation Services	Category:	Minor		11
	1 2 3 2 4 0	Cost Validation:	Recent a	wards	
Ward(3). CW	5 6 7 8	Requirement Validation:	Condition	n assessmen	t
DETAILED DES(CRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consu	Ilted?	

This project is to replace one (1) Aerial Platform lift for completing high work task at the Pan Am Centre. Aerial platforms are designed to enhance productivity in the workplace. The lightweight construction of an aerial platform allows them to be easily maneuvered, used and transported. The replacement aerial platform is utilized to support setup of events and integral part of pulling out the bleachers in the gymnasium.

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES The existing aerial platform at the Pan Am Centre was a shared
Cost/Quote:	19,700	0	amongst community centres. It was manufactured in 2007 and
Internal Charges:	0	0	transferred to the Pan Am Centre in 2015. A condition assessme
External Consulting:	0	0	of the unit indicates replacement is warranted. The amount requested is consistent with recent award.
Contingency %: 0	0	0	requested is consistent with recent award.
Sub Total:	19,700	0	
HST Impact:	347	0	
Total Project Cost:	20,000	0	

SOURCE(S) OF FUNDING (\$) Components Future Phases Funding Type TOTAL **Budget** 0 0 0 0 Operating Funded Life Cycle 20,000 0 0 0 **TOTAL FUNDING** 20,000 0

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

DCA		Amount in	<u>Life Cycle</u>	
Name	Year Amount	Study	Amount in Study:	193,800
			Amount Incl HST	20,000
			Year in the study	2024
DCA and/or Life Cycle: Expla	in if there is a change in the year and/or cost:			

MARKH	2024 PROJECT FUND	ING REQUEST FORM	Number:	24153
Project Name:	Pan Am Centre Gymnasium Blinds Repl		ject Cost:	\$85,000
~ · ·			Repair	/Replace
Department:	Community Services Recreation Services Edward Migue	Useful I Category: Minor		Pre Approval:
	$CW \square 1 \square 2 \square 3 \checkmark 4 \square$	Cost Validation: Third Requirement Validation: Condi		
DETAILED DE	$5 \square 6 \square 7 \square 8 \square$ SCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Con		
	replace the existing manual blinds system in the	main ovmpasium area at the Markha	am Pan Am Ce	ntre Blinds used i

This project is to replace the existing manual blinds system in the main gymnasium area at the Markham Pan Am Centre. Blinds used in the gymnasium serve three purposes. The first is to black out the natural light during a high level competition, second is to provide privacy to the user groups and third is to act as an insulation for energy savings.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The existing blinds are original and were installed in 201
Cost/Quote:	83,500	0	condition assessment indicates that replacement is warran
Internal Charges:	0	0	amount requested is consistent with recent quote.
External Consulting:	0	0	
Contingency %: 0	0	0	
Sub Total:	83,500	0	
HST Impact:	1,470	0	
Total Project Cost:	85,000	0	

SOURCE(S) OF FUNDING (\$) Components <u>Future</u> Funding Type TOTAL Phases Budget Operating Funded Life Cycle 85,000 0 0 0 0 0 0 85,000 0 0 **TOTAL FUNDING**

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

Study	Amount in Study:	193,800 85,000
		,
	Year in the study	2024

2024 PROJECT FUND	ING REQUEST FO		Number:	24154
Project Name: Pan Am Centre Gymnasium Wood Refini	shing	Projec	t Cost:	\$25,000
			Repair	/Replace
Commission: Community Services	T	Jseful Life	. 3	Pre Approval:
Department: <u>Recreation Services</u>			. 5	rie rippio val.
Project Mgr: Edward Migue	Category:	Minor		
Ward(s): $CW \square 1 \square 2 \square 3 \checkmark 4 \square$	Cost Validation:	Third par	ty estimate	
	Requirement Validation:	Condition	assessmen	t
5 6 7 8	· .		_	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consul	ted? □	

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This project is to refinish the main gymnasium wood flooring and to restore and polish the surface of the hardwood floors at the Pan Am Centre. Due to excessive usage, the gymnasium wood can be stripped of its existing finishing, resulting in reduced quality of play. Quality of Play is a mandatory requirement for National and Provincial Sport Organizations when evaluating Markham's Pan Am Centre as a potential venue to host games and events. The high level of competition results in a shorter lifespan than traditional gymnasium floors.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$) Cost/Quote: Internal Charges: External Consulting: Contingency %: 0 Sub Total: HST Impact: Total Project Cost:	2024 24,600 0 0 24,600 433 25,000	Future Phases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	gymnasium excessive us assessment	floors require sage for sporti on the gymnas	ere last refinished in 2021. s refinishing every three (3 ng and special events. A re- sium wood indicates that th ount requested is consisten) years due to ecent condition ere are multiple
SOURCE(S) OF FUNDING	G (\$)		Comp	onents		F _4
Funding Type	Budget				TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	25,000	0	0	0	0 0	0
TOTAL FUNDING	25,000				0	0
OPERATING BUDGET IN DCA/LIFE CYCLE DETA	МРАСТ	rsonnel Non Pe \$0 \$		Sevenues \$0	Expenditures/(Revenues \$0)
<u>DCA</u> Name		Ye	ar Amount	Amount in Study	Life Cycle	
					Amount in Study:	193,800
					Amount Incl HST Year in the study	25,000 2024
DCA and/or Life Cycle:	Explain if there is	a change in the yea	r and/or cost:			

ING REQUEST FORM	Number:	24155
	oject Cost:	\$20,400
	Repair	/Replace
Useful	Life: 1	Pre Approval:
Cost Validation: Third party estimate		
·		
	ment Useful Category: Annu Cost Validation: Thir Requirement Validation: Cond	ment Category: Annual Number: Number: Project Cost: Repair Useful Life: 1

This annual replacement program is specific in supporting the Pan Am Centre High Performance pool equipment. The 2024 annual program will replace two (2) starting blocks and two (2) touch pads. This project is to replace pool equipment necessary for Markham Pan Am Centre's ability to host national and international swim events.

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Based on condition assessment, the identified pool equipr
Cost/Quote:	20,000	0	indicates replacement is necessary. The amount requested
Internal Charges:	0	0	consistent with recent quote. Cost per Starting Block is \$4,760 x 2 units = \$9,520
External Consulting:	0	0	Cost per Touch Pads is $$5,286 \times 2$ units = $$10,572$
Contingency %: 0	0	0	Annually, Pan Am Centre hosts 42 swim meets and events.
Sub Total:	20,000	0	an annual program and funding will be requested each year
HST Impact:	352	0	
Total Project Cost:	20,400	0	

SOURCE(S) OF FUNDING (\$)			Compone	nts			F4
Funding Type	Budget	Starting Blocks	Touch Pads			<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	20,400	9,658	10,742	0	0	20,400	0
TOTAL FUNDING	20,400				=	20,400	0

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

Name Year Amount Study Amount in Study: 193,800 Amount Incl HST 20,400 Year in the study 2024	DCA	Amount in	Life Cycle
Year in the study 2024	Name	Year Amount Study	
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:			
	DCA and/or Life Cycle: Explain if there	is a change in the year and/or cost:	

MARKHAM 2024 PROJECT FUND	DING REQUEST FORM Numb	er: 24156
Project Name: Pan Am Centre Reception Counter Repla	Project Cost:	\$40,000
		pair/Replace
Commission: Community Services	Useful Life: 10	Pre Approval: 🗌
Department: <u>Recreation Services</u> Project Mgr: Edward Migue	Category: Minor	
Ward(s): $_{CW}$ \square $_1$ \square $_2$ \square $_3$ \checkmark $_4$ \square	Cost Validation: Third party estim	nate
5 6 7 8	Requirement Validation: Condition assess	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?	
This project is to replace the front reception counter area at the P	an Am Centre. The size and location of the curr	cent recention counter

This project is to replace the front reception counter area at the Pan Am Centre. The size and location of the current reception counter does not effectively support guests entering the facility for activities and events. As the Pan Am Centre increases ticketed event capacity, this new service desk will act as a box office for ticket sales and processing.

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The existing reception desk at the Pan Am Centre is original
Cost/Quote:	39,300	0	was built in 2014 specifically designed for the 2015 Pan Am
Internal Charges: External Consulting:	0 0	0 0	Games. Based on condition assessment and the existing limit of the existing reception counter, a replacement is warranted. amount requested is consistent with recent quote.
Contingency %: 0 	<u>39,300</u> 692		
Total Project Cost:	40,000	0	

SOURCE(S) OF FUNDING (\$) Components Future Funding Type Phases **Budget** TOTAL Operating Funded Life Cycle 40,000 0 0 0 0 0 0 40,000 0 0 **TOTAL FUNDING**

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

DCA		Amount in	Life Cycle		
Name	Year Amount	Study	Amount in Study:	193,800	
			Amount Incl HST	40,000	
			T T 1 1 1	202	
)CA and/or Life Cycle: Explain	if there is a change in the year and/or cost:		Year in the study	202	
DCA and/or Life Cycle: Explair	n if there is a change in the year and/or cost:		Year in the study	202	
DCA and/or Life Cycle: Explair	n if there is a change in the year and/or cost:		Year in the study	202	

MARKHAM	2024 PROJECT FUNDING RI	EQUEST FORM Number:	24157
Project Name: Dingle He		Project Cost:	\$17,000
Project Name: Pingle Ho		Repai	r/Replace
Commission: Community	/ Services	Useful Life: 10	Pre Approval:
Department: <u>Recreation</u>	Services	Oseful Life. 10	The Approval.

Project Mgr: Scott Hill	Category: Minor
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Third party estimate
5 G Z 7 8	Requirement Validation: Condition assessment
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?

This project is to paint the exterior of the Pingle House. Pingle House is a heritage home and painting the exterior will upkeep the house to standards set out by the City and the Heritage Committee.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The Pingle House was last painted in 2011. A condition assessment
Cost/Quote:	16,750	0	has indicated that the exterior paint has deteriorated and that
Internal Charges: External Consulting: Contingency %: 0	0 0 0	0 0 0	repainting is warranted. The Pingle House is a Heritage Home, the upkeep and maintenance of the home is integral towards maintaining the standards expected by the City and the Heritage committee. Painting will include all wood siding, shutters, eaves,
Sub Total: HST Impact: Total Project Cost:	16,750 295 17,000	0 0 0	down spouts, soffits, window frames, doors and door frames. Price includes all labour and materials required to complete job. Amount for this project is consistent with recent quote. Cost per sq.ft. of exterior paint is 8.92 per sq. ft x 1,894 sq ft = $16,894$.

SOURCE(S) OF FUNDING ((\$)		Compone	ents			F 4
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	17,000	0	0	0	0	0	0
TOTAL FUNDING	17,000					0	0

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

<u>OCA</u>	Amount in	<u>Life Cycle</u>
ame	Year Amount Study	Amount in Study: 17,300
		Amount Incl HST 17,000
		Year in the study 2024
OCA and/or Life Cycle: Explain if ther		

MARKHAM 2024 PROJECT FUNI	DING REQUEST FO	DRM NI	umber:	24158
Project Name: Recreation AED Program Replacement		Project (-	\$10,700 /Replace
Commission: <u>Community Services</u> Department: <u>Recreation Services</u> Project Mgr: Portia Lee	U Category:	Jseful Life: Annual	5	Pre Approval:
Ward(s): $_{CW} \bigvee 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: Requirement Validation: ITS Involved Project: Is I	Condition a	ssessmen	t
The 2024 AED annual program will include the replacement of program.	8 AED kits and 18 AED traine	er pads. This	project is	a city wide annua

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES There are currently 54 AED units in the City of Markham.
Cost/Quote:	10,500	0	AED units have been used 6 times since 2018. 2008 and 20
Internal Charges:	0	0	Centennial C.C., 2010 and 2019 at the Milliken Mills C.C., 2 and 2018 at Angus Glen C.C. Cost per AED kits are \$675 pc
External Consulting:	0	0	$($675 \times 8 \text{ units} = $5,400)$ and cost per trainer pads is \$283 p
Contingency %: 0	0	0	$($283 \times 18 = $5,100)$. Price is consistent with recent staff aw
Sub Total:	10,500	0	plus inflation. The Life Cycle Reserve Study will be adjusted
HST Impact:	185	0	accordingly in the next update. *This is an annual program a funding will be requested each year.
Total Project Cost:	10,700	0	

SOURCE(S) OF FUNDING (\$)			Compone	nts			E 4
<u>Funding Type</u>	Budget	AED units	Trainer Pads			<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	10,700	5,495	5,205	0	0	10,700	0
TOTAL FUNDING	10,700				=	10,700	0

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

Amount in Study: 15,3 Amount Incl HST 10,7	DCA		Amount in	Life Cycle	
Year in the study 20	Name	Year Amount	Study	Amount in Study:	15,300
				Amount Incl HST	10,700
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:				V · · · · · · · · ·	202
				Year in the study	202
	DCA and/or Life Cycle: Explai	n if there is a change in the year and/or cost:		Year in the study	202
	DCA and/or Life Cycle: Explai	n if there is a change in the year and/or cost:		Year in the study	202

MARKHAM 2024 PROJECT FON	Number	r: 24159
Project Name: Recreation Aquatics Equipment Replac	Project Cost:	\$88,300
Commission: Community Services Department: Recreation Services		air/Replace Pre Approval:
Project Mgr: Janice Carroll Ward(s): CW \checkmark 1 \bigcirc 2 \bigcirc 3 \bigcirc 4 \bigcirc 5 \bigcirc 6 \bigcirc 7 \bigcirc 8 \bigcirc DETAILED DESCRIPTION (SCOPE OF PROJECT): This annual replacement program for aquatics equipment is for a	Category: Annual Cost Validation: Recent awards Requirement Validation: Condition assessm ITS Involved Project: Is ITS Consulted?	ent
BUILDING MARKHAM'S FUTURE TOGETHER: Safe	& Sustainable Community	

PROJECT COSTS (\$)	2024	Future Phases	NOTES
11100201 00010 (0)	2024	<u>r uture r nases</u>	The 3 year average spend is \$85,500. Aquatics equipment is used to
Cost/Quote:	86,800	0	support programs that are revenue generating. The Life Cycle
Internal Charges:	0	0	Reserve Study will be adjusted accordingly in the next update.
External Consulting:	ů 0	0	*This is an annual program and funding will be requested each year.
U	0	0	
Contingency %: 0	0	0	
Sub Total:	86,800	0	
HST Impact:	1,528	0	
	1,020		
Total Project Cost:	88,300	0	

SOURCE(S) OF FUNDING (<u>\$)</u>		Compon	ents			Futuro
Funding Type	Budget					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	88,300	0	0	0	0	0	0
TOTAL FUNDING	88,300					0	0

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

DCA	Year Amou	Amount in	<u>Life Cycle</u>		
Name	Year Amou	nt Study	Amount in Study:	88,500	
			Amount Incl HST	88,300	
			Year in the study	202	
OCA and/or Life Cycle [.] Explain	if there is a change in the year and/or cos	st•			

2024 PROJECT FUNDI	NG REQUEST FORM	Number:	24160
Project Name: Recreation Facility Condition Assessment		ect Cost:	\$50,000
		Studies	s/Pilot Programs
Commission: Community Services	Useful Li	ife: 5	Pre Approval:
Department: <u>Recreation Services</u>		ne. <i>5</i>	The Approval. —
Project Mgr: Jason Tsien	Category: Minor		
· · · ·	Cost Validation: Interna	l peer review	
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Requirement Validation: Conditi	ion assessmen	ıt
5 6 7 8		_	
DETAILED DESCRIPTION (SCOPE OF PROJECT)	ITS Involved Project: Is ITS Con	sulted? □	

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This project is to complete a facility condition assessment (FCA) and a detailed inspection of all architectural and structural elements found inside community centre and facilities. The intent of the project is to receive a condition assessment on architectural elements (roofs and ceilings) and structural elements (IE: Framing, Foundations, etc.) The FCA for community facilities is a standard practice and helps to identify issues in aging facilities. Early identification of architectural and structural issues allow staff to respond quickly and to avoid costly repairs.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES		ete an FCA for 1	0 community of	centres and is
Cost/Quote:	49,100	0			FCA is a detaile		
Internal Charges:	0	0			d supports staff		
External Consulting:	0	0			maintain, repair, ts allows staff to		
Contingency %: 0	0	0			repair or renewa	1	•
Sub Total:	49,100	0		1	by Sustainability	and Asset Ma	nagement
HST Impact:	864	0	and is co	onsistent with re	cent award.		
Total Project Cost:	50,000	0					
SOURCE(S) OF FUNDING (<u>\$)</u>		Co	mponents			E 4s
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	50,000	0	0	0	0	0	0
TOTAL FUNDING	50,000					0	0
OPERATING BUDGET IMP	PACT Pe	ersonnel Non Po	ersonnel	Revenues	Expenditures	s/(Revenues)	
		\$0 5	\$0	\$0	\$0	0	

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 51,000
		Amount Incl HST 50,000
		Year in the study 2024
DCA and/or Life Cycle: Explain if there is	s a change in the year and/or cost.	

MARKHAM					iber:	24161	
Project Name: Recreation	n Fitnoss Fauin	mont Ponlocomo	nt	Project Cos	st:	\$55,100	
		пент керіасеше]	Repair/R	eplace	
Commission: <u>Community</u>			Us	seful Life: 5	5 P	re Approval: 🗌	
Department: <u>Recreation</u>			Category: A	Annual			
Project Mgr: <u>Anthony Ier</u>			Cost Validation:	Recent awards	5		
	2 3 4 4 6 7 8 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8		Requirement Validation:	Condition asse	essment		
ے 5 DETAILED DESCRIPTIO		POIECT).	– ITS Involved Project: Is IT	S Consulted?			
			nt and complete Fitness relate	ed upgrades the	at renew	and upkeep	
fitness spaces across City ow	ned facilities. The	items being replace	ed are strength, cardio, and flo	ooring equipm	ent.		
BUILDING MARKHAM'S	S FUTURE TOG	ETHER: Engage	ed, Diverse & Thriving City				
BDO HECT COSTS (4)	2024		NOTES				
PROJECT COSTS (\$)	<u>2024</u>	Future Phases	The formula for replacement				
Cost/Quote:	54,100	0	standard that states 8% of gross revenue will represent the replacement value of equipment to service membership. Fitness				
		0	replacement value of equip	ment to servic	e membe	ership. Fitness	
Internal Charges:	0	0	Revenue in 2022 was \$689	,000 when mu	ltiplied b	by the industry	
External Consulting:	0 0 0	0	Revenue in 2022 was \$689 standard of 8%, it equates t	,000 when mu to \$55,100. Th	ltiplied b	by the industry	
External Consulting: Contingency %: 0	0 0	0	Revenue in 2022 was \$689	,000 when mu to \$55,100. Th ars' budgets.	Iltiplied b te formul	by the industry la used is	
External Consulting: Contingency %: 0 Sub Total:	0	0	Revenue in 2022 was \$689 standard of 8%, it equates t consistent with previous ye	,000 when mu to \$55,100. Th ars' budgets.	Iltiplied b te formul	by the industry la used is	
External Consulting: Contingency %: 0 Sub Total: HST Impact:	0 0 54,100	0 0 0	Revenue in 2022 was \$689 standard of 8%, it equates t consistent with previous ye	,000 when mu to \$55,100. Th ars' budgets.	Iltiplied b te formul	by the industry la used is	
External Consulting: Contingency %: 0 Sub Total: HST Impact: Total Project Cost:	0 0 54,100 952 55,100	0 0 0 0	Revenue in 2022 was \$689 standard of 8%, it equates t consistent with previous ye *This is an annual program	,000 when mu to \$55,100. Th ars' budgets.	Iltiplied b te formul	by the industry la used is	
External Consulting: Contingency %: 0 Sub Total: HST Impact: Total Project Cost: SOURCE(S) OF FUNDING	0 0 54,100 952 55,100	0 0 0 0	Revenue in 2022 was \$689 standard of 8%, it equates t consistent with previous ye	,000 when mu to \$55,100. Th ars' budgets.	Iltiplied b ne formul will be re	by the industry la used is equested each ye <u>Future</u>	
External Consulting: Contingency %: 0 Sub Total: HST Impact: Total Project Cost:	0 0 54,100 952 55,100	0 0 0 0	Revenue in 2022 was \$689 standard of 8%, it equates t consistent with previous ye *This is an annual program	,000 when mu to \$55,100. Th ars' budgets.	Iltiplied b te formul	by the industry la used is equested each ye <u>Future</u>	
External Consulting: Contingency %: 0 Sub Total: HST Impact: Total Project Cost: SOURCE(S) OF FUNDING	0 0 54,100 952 55,100	0 0 0 0	Revenue in 2022 was \$689 standard of 8%, it equates t consistent with previous ye *This is an annual program	,000 when mu to \$55,100. Th ars' budgets.	Iltiplied b ne formul will be re	by the industry la used is equested each ye <u>Future</u>	
External Consulting: Contingency %: 0 Sub Total: HST Impact: Total Project Cost: SOURCE(S) OF FUNDING Funding Type	0 0 54,100 952 55,100 4 (\$) Budget	0 0 0 0 0	Revenue in 2022 was \$689 standard of 8%, it equates t consistent with previous ye *This is an annual program Components	,000 when mu to \$55,100. The ars' budgets. and funding v	Iltiplied b ne formul will be re	by the industry la used is equested each ye <u>Future</u> AL <u>Phases</u>	
External Consulting: Contingency %: 0 Sub Total: HST Impact: Total Project Cost: SOURCE(S) OF FUNDING Funding Type	0 0 54,100 952 55,100 55,100 <u>Budget</u> 55,100	0 0 0 0 0	Revenue in 2022 was \$689 standard of 8%, it equates t consistent with previous ye *This is an annual program Components	,000 when mu to \$55,100. The ars' budgets. and funding v	Iltiplied b ne formul will be re	by the industry la used is equested each ye <u>Future</u> AL <u>Phases</u>	
External Consulting: Contingency %: 0 Sub Total: HST Impact: Total Project Cost: SOURCE(S) OF FUNDING Funding Type	0 0 54,100 952 55,100 (\$) Budget 55,100 55,100 Be	0 0 0 0 0 0 rsonnel Non Pe	Revenue in 2022 was \$689 standard of 8%, it equates t consistent with previous ye *This is an annual program Components 0 0 ersonnel Revenues	000 when mu to \$55,100. The ars' budgets. and funding v 0 0 Expenditures	Itiplied b ne formul will be re <u>TOT</u>	by the industry la used is equested each ye AL Phases 0 0	
External Consulting: Contingency %: 0 Sub Total: HST Impact: Total Project Cost: SOURCE(S) OF FUNDING Funding Type Operating Funded Life Cycle TOTAL FUNDING	0 0 54,100 952 55,100 (\$) Budget 55,100 55,100 Be	0 0 0 0 0 0 rsonnel Non Pe	Revenue in 2022 was \$689 standard of 8%, it equates t consistent with previous ye *This is an annual program Components 0 0	000 when mu to \$55,100. The ears' budgets. and funding v	Itiplied b ne formul will be re <u>TOT</u>	by the industry la used is equested each ye AL Phases 0 0	
External Consulting: Contingency %: 0 Sub Total: HST Impact: Total Project Cost: SOURCE(S) OF FUNDING Funding Type Operating Funded Life Cycle TOTAL FUNDING	0 0 54,100 952 55,100 55,100 55,100 55,100 700 700 700 700 700 700 700 700 700	0 0 0 0 0 0 rsonnel Non Pe	Revenue in 2022 was \$689 standard of 8%, it equates t consistent with previous ye *This is an annual program Components 0 0 ersonnel Revenues	000 when mu to \$55,100. The ars' budgets. and funding v 0 0 Expenditures	Itiplied b ne formul will be re <u>TOT</u>	by the industry la used is equested each ye AL Phases 0 0	
External Consulting: Contingency %: 0 Sub Total: HST Impact: Total Project Cost: SOURCE(S) OF FUNDING Funding Type Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET IN OCA/LIFE CYCLE DETAI DCA	0 0 54,100 952 55,100 55,100 55,100 55,100 700 700 700 700 700 700 700 700 700	0 0 0 0 0 0 0 7 50 \$0 \$	Revenue in 2022 was \$689 standard of 8%, it equates t consistent with previous ye *This is an annual program Components 0 0 ersonnel Revenues 50 \$0 \$0 \$0 Amount in	000 when mu to \$55,100. The ars' budgets. and funding v 0 0 Expenditures	Itiplied b ne formul will be re <u>TOT</u> /(Revent	by the industry la used is equested each ye AL Phases 0 0	
External Consulting: Contingency %: 0 Sub Total: HST Impact: Total Project Cost: SOURCE(S) OF FUNDING Funding Type Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET IN DCA/LIFE CYCLE DETAI	0 0 54,100 952 55,100 55,100 55,100 55,100 700 700 700 700 700 700 700 700 700	0 0 0 0 0 0 rsonnel Non Pe	Revenue in 2022 was \$689 standard of 8%, it equates t consistent with previous ye *This is an annual program Components 0 0 ersonnel Revenues 50 \$0 S0 \$0 Amount in	000 when mu to \$55,100. The ears' budgets. a and funding v 0 0 Expenditures \$0	Itiplied b ne formul will be re <u>TOT</u> /(Revent	by the industry la used is equested each ye AL Phases 0 0 0 0	
External Consulting: Contingency %: 0 Sub Total: HST Impact: Total Project Cost: SOURCE(S) OF FUNDING Funding Type Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET IN OCA/LIFE CYCLE DETAI DCA	0 0 54,100 952 55,100 55,100 55,100 55,100 700 700 700 700 700 700 700 700 700	0 0 0 0 0 0 0 7 50 \$0 \$	Revenue in 2022 was \$689 standard of 8%, it equates t consistent with previous ye *This is an annual program Components 0 0 ersonnel Revenues 50 \$0 \$0 \$0 Amount in	000 when mu to \$55,100. The ears' budgets. a and funding v 0 	Itiplied b ne formul will be re <u>TOT</u> /(Revent) r <u>cle</u> in Study:	by the industry la used is equested each ye AL Phases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
External Consulting: Contingency %: 0 Sub Total: HST Impact: Total Project Cost: SOURCE(S) OF FUNDING Funding Type Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET IN OCA/LIFE CYCLE DETAI DCA	0 0 54,100 952 55,100 55,100 55,100 55,100 700 700 700 700 700 700 700 700 700	0 0 0 0 0 0 0 7 50 \$0 \$	Revenue in 2022 was \$689 standard of 8%, it equates t consistent with previous ye *This is an annual program Components 0 0 ersonnel Revenues 50 \$0 \$0 \$0 Amount in	000 when mu to \$55,100. The ars' budgets. and funding v 0 0 Expenditures \$0 Life Cy Amount Amount	Itiplied b ne formul will be re <u>TOT</u> /(Revent) /(Revent) //(Revent) //(Revent)	by the industry la used is equested each ye AL Phases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
External Consulting: Contingency %: 0 Sub Total: HST Impact: Total Project Cost: SOURCE(S) OF FUNDING Funding Type Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET IN OCA/LIFE CYCLE DETAI DCA	0 0 54,100 952 55,100 55,100 55,100 55,100 4PACT Pe LS	0 0 0 0 0 0 0 rsonnel Non Pe \$0 \$	Revenue in 2022 was \$689 standard of 8%, it equates t consistent with previous ye *This is an annual program 0 0 0 0 ersonnel Revenues 30 \$0 30 \$0 30 \$0 Amount in ar Amount Study	000 when mu to \$55,100. The ears' budgets. and funding v 0 0 Expenditures \$0 Life Cy Amount	Itiplied b ne formul will be re <u>TOT</u> /(Revent) /(Revent) //(Revent) //(Revent)	by the industry la used is equested each ye AL Phases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

MARKHAM 2024 PROJECT FUNL		NU	mber:	24162
Project Name: Recreation Lifeguard Chairs Replaceme		oject C	ost: _	\$36,000
			Repair/	Replace
Commission: Community Services	Useful	Life	7	Pre Approval:
Department: <u>Recreation Services</u>			,	rie rippio (un
Project Mgr: Luke Hilts / Ryan Hanna	Category: Minc	r		
Ward(s): $CW \swarrow 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Third	l party e	stimate	
	Requirement Validation: Cond	lition as	sessmen	t
5 🗌 6 🗌 7 🗌 8 🗌			_	
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Co	onsulted	?□	

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BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

the water and swimmers from an elevated position, allowing lifeguards to maintain and monitor swimmer safety.

PROJECT COSTS (\$) Cost/Quote:	<u>2024</u> 35,400	<u>Future Phases</u> 0	Aaniin (20	17). A conditio	airs are original on assessment o . The amount re	f the units ind	icate
Internal Charges: External Consulting: Contingency %: 0	0 0 0	0 0 0	the recent of			quested is cor	
Sub Total:	35,400	0					
HST Impact:	623	0					
Total Project Cost:	36,000	0					
SOURCE(S) OF FUNDING	(\$)		Com	oonents			F 4
Funding Type	<u>Budget</u>	Cornell CC	<u>Aaniin CO</u>	2		<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	36,000	18,000	18,000	0	0	36,000	0
TOTAL FUNDING	36,000				-	36,000	0
OPERATING BUDGET IN	APACT Per	rsonnel Non Pe	ersonnel	Revenues	Expenditures	/(Revenues)	
OI ERATING DODGET IN	IIACI	\$0 \$	0	\$0	\$0)	
DCA/LIFE CYCLE DETAI	LS						
DCA Name		Ye	ar Amount	Amount in Study	<u>Life Cy</u>	<u>vcle</u>	
		10		Study	– Amount	in Study:	,030,100
					Amount	Incl HST	36,000
					Year in	the study	2024

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

2024 PROJECT FUND	ING REQUEST FORM	nber: 24163
Project Name: Recreation Pool Drain Line Inspection	Project Cos	st: \$25,000 Studies/Pilot Programs
Commission: <u>Community Services</u> Department: <u>Recreation Services</u> Project Mgr: Jason Tsien / Mark Elsenaar	Useful Life: 1 Category: Annual	Pre Approval:
Ward(s): $_{CW} \bigvee 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: Internal peer re Requirement Validation: Condition asse ITS Involved Project: Is ITS Consulted?	essment

This annual project is to complete a pool drain line inspection for all community pools. This inspection examines and assesses drain lines in City swimming pools and spas to ensure that they are functioning properly and free from any blockages or damage. The drain lines in a pool play a crucial role in water circulation and filtration, as they remove debris and water from the pool. Conducting pool drain line inspection will identify potential problems early on, which then allows for timely repairs or maintenance. This ensures efficient operation of the pool and prevents more significant issues from developing.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES The project is to	o complete a r	ool drain lii	ne inspection	for seven (7	
Cost/Quote:	24,600	0 The project is to complete a pool drain line inspection for s indoor and two (2) outdoor pools. The pool drain line insp						
Internal Charges:	0	0	consists of 4 ste					
External Consulting:	0	0	as cracks, leaks and loose fittings; 2) a pressure test to check for leaks or line weakness; 3) a camera inspection to inspect the inte					
Contingency %: 0	0	0	of the drain line					
Sub Total:	24,600	0	debris; and 4) a	flow rate asso				
HST Impact:	433	0	need to be addr	essed.				
Total Project Cost:	25,000	0						
SOURCE(S) OF FUNDING	G (\$)		Compone	nts			Б. (
<u>Funding Type</u>	Budget					<u>TOTAL</u>	<u>Future</u> Phases	
Operating Funded Life Cycle	25,000	0	0	0	0	0	(
TOTAL FUNDING	25,000				-	0	(

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

Year Amount Study	Amount in Study:	25,500
	Amount Incl HST	25,000
	Year in the study	2024
a change in the year and/or cost:		
	s a change in the year and/or cost:	Amount in Study: Amount Incl HST Year in the study

Project Name: Recreation Pool Grouting Replacement Commission: Community Services Department: Recreation Services Project Mgr: Mark Elsenaar Ward(s): CW 🗹 1 🗌 2 🗌 3 🗌 4 🗌 Requirement Validation: Cost Validation:			\$75,000
Department: Recreation Services Use: Project Mgr: Mark Elsenaar Category: An Ward(s): Cw 🗹 1 🗆 2 🗆 3 🗆 4 🗆 Cost Validation: Reconstruction:		Repai	ir/Replace
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$ Cost Validation:Ref	ful Life: mual	5	Pre Approval:
$5 \square 6 \square 7 \square 8 \square$ $ETAILED DESCRIPTION (SCOPE OF PROJECT):$ $ITS Involved Project: Is ITS$	ondition	assessme	nt

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

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The 3 year average spend from the annual pool grouting project is
Cost/Quote:	73,700	0	\$73,700. Staff will regrout during the rotational scheduled pool
Internal Charges: External Consulting: Contingency %: 0	0 0 0	0 0 0	shutdown period. The amount of work required is determined during pool shutdown when water is drained from the pool. These funds will support the cost of repairing and replacing grout. *This is an annual program and funding will be requested each year.
Sub Total: HST Impact: Total Project Cost:	73,700 1,297 75,000	0 0 0	

SOURCE(S) OF FUNDING	(\$)	Components					
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	75,000	0	0	0	0	0	0
TOTAL FUNDING	75,000					0	0

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

DCA		Amount in	Life Cycle	
lame	Year Amount	Study	Amount in Study:	76,500
			Amount Incl HST	75,000
			Year in the study	2024

2024 PROJECT FUNL	DING REQUEST FORM	Number:	24165
Project Name: Recreation Program Equipment Replace	Projec	t Cost:	\$97,500
		Repair	/Replace
Commission: Community Services	Useful Life	: 5	Pre Approval:
Department: <u>Recreation Services</u> Project Mgr: Kerry Wakefield	Category: Annual		
Ward(s): $CW \swarrow 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Recent av	wards	
	Requirement Validation: Condition		t
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consul	lted?	
Annual program to replace City wide program/camp equipment. mats, badminton and volleyball nets, learn to skate equipment, st		include: pro	eschool equipment,

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

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The 3 year average spend from the Annual Programs Equipme
Cost/Quote:	95,800	0	\$97,500. The program equipment being replaced supports
Internal Charges:	0	0	programs that are revenue generating. *This is an annual program and funding is requested each year.
External Consulting:	0	0	Life Cycle Reserve Study will be adjusted accordingly in the ne
Contingency %: 0	0	0	update.
Sub Total:	95,800	0	
HST Impact:	1,686	0	
Total Project Cost:	97,500	0	

SOURCE(S) OF FUNDING (\$) Components Future Funding Type **TOTAL** Phases Budget 0 0 Operating Funded Life Cycle 97,500 0 0 0 0 <u>97,500</u> 0 0 TOTAL FUNDING

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

DCA	Amount in	<u>Life Cycle</u>		
Name	Year Amount Study	Amount in Study: 145,600		
		Amount Incl HST 97,500		
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cast.	Year in the study 2024		
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024		
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024		
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024		

Project Name: Dama time Tables and Chains Dambase	4	Project Cos	st:	\$55,100
Project Name: Recreation Tables and Chairs Replacem		F	Repair/	Replace
Commission: Community Services Department: Recreation Services Project Mgr: Mark Elsenaar	I Category:	Useful Life: 5 Annual	5	Pre Approval: [
Ward(s): $CW \bigvee 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$ ETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: Requirement Validation: ITS Involved Project: Is	Condition asse	essment	

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

PROJECT COSTS (\$) Cost/Quote:	<u>2024</u> 54,100	<u>Future Phases</u> 0	NOTES The 3 year average spent on this replacement program is \$54 Tables and chairs are equipment used to support revenue ger programs and rentals.
Internal Charges:	0	0	*This is an annual program and funding will be requested eac
External Consulting:	0	0	The Life Cycle Reserve Study will be adjusted accordingly in
Contingency %: 0	0	0	next update.
Sub Total:	54,100	0	
HST Impact:	952	0	
Total Project Cost:	55,100	0	

SOURCE(S) OF FUNDING (<u>\$)</u>	Components							
<u>Funding Type</u>	Budget					<u>TOTAL</u>	<u>Future</u> Phases		
Operating Funded Life Cycle	55,100	0	0	0	0	0	0		
TOTAL FUNDING	55,100					0	0		

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

DCA	Amour	
Name	Year Amount Stud	Amount in Study: 56,200
		Amount Incl HST 55,100
		Year in the study 2024
DCA and/or Life Cycle: Expla	ain if there is a change in the year and/or cost:	
DCA and/or Life Cycle: Expla	ain if there is a change in the year and/or cost:	
DCA and/or Life Cycle: Expla	ain if there is a change in the year and/or cost:	

2024 PROJECT FUND	ING REQUEST FORM Number: 24167
Project Name: Rouge River C.C. Outdoor Pool Interlock	Project Cost: \$41,200
	Repair/Replace
Commission: Community Services	Useful Life: 15 Pre Approval:
Department: <u>Recreation Services</u> Project Mgr: Ryan Hanna	Category: Minor
Ward(s): CW 1 1 2 3 4	Cost Validation: Third party estimate
5 6 7 8	Requirement Validation: Condition assessment
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?

This project is to replace existing exterior interlocking pavers around the pool deck at Rouge River C.C. To maintain safety of users and staff, interlocking pavers used to access the pool must be in good condition and level to avoid tripping hazards and allow for accessibility. The work includes; material, labour and all other trades required for the work.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The existing interlock was installed in 2005. Based on condition
Cost/Quote:	40,500	0	assessment, the existing pavers show cracking and significant
Internal Charges:	0	0	deterioration where replacement is warranted. All existing interlo pavers will be escavated and disposed, new aggregate will be laid
External Consulting:	0	0	and new pavers will be installed. The amount requested is consist
Contingency %: 0	0	0	with recent quote.
Sub Total:	40,500	0	
HST Impact:	713	0	
Total Project Cost:	41,200	0	

<u>\$)</u>		Compone	ents			F
Budget					TOTAL	<u>Future</u> Phases
41,200	0	0	0	0	0	0
41,200					0	0
	Budget 41,200	Budget 41,200 0	Budget 41,200 0 0	Budget 41,200 0 0 0	Budget 41,200 0 0 0 0 0	Budget TOTAL 41,200 0 0 0 0 0

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

Amount in Study: 61,100 Amount Incl HST 41,200 Year in the study 2024

MARKHAM	2024 PROJ	ECT FUNDI	NG REQUEST FO	DRM Number:	24168
Project Name: Rouge Riv	ver C C Wood I	loor Refinishing		Project Cost:	\$18,600
		Toor Kerninsming	<u> </u>	Repair	r/Replace
Commission: Community			τ	Useful Life: 7	Pre Approval:
Department: <u>Recreation S</u>			Category:	Minor	11
Project Mgr: <u>Ryan Hanna</u>				Third party estimate	
	2 3 4		Requirement Validation:		
	6 7 🗹 8		ITS Involved Project: Is I		
DETAILED DESCRIPTIO This project is to refinish the life of the existing floor and s	wooden flooring v	within the lobby and	l auditorium at Rouge River	C.C. Refinishing the	wood extends the
BUILDING MARKHAM'S	S FUTURE TOG	ETHER: Exception	onal Services by Exceptional F	People	
PROJECT COSTS (\$)	2024	Future Phases	NOTES		
Cost/Quote:	18,300	<u>1 uture 1 nuses</u> 0	The existing floors were l condition reveals areas w	ast refinished in 2017	. The current
Internal Charges:	0	0	worn down. The dulling c	of the floors can reduc	e the life of the
External Consulting:	0	0	wood floors. The work restand the floors and prep f		
Contingency %: 0	0	0	consistent with recent que		unit requested is
Sub Total:	18,300	0			
HST Impact:	322	0			
Total Project Cost:	18,600	0			
SOURCE(S) OF FUNDING	; (\$)		Components		E
<u>Funding Type</u>	<u>Budget</u>			<u>T(</u>	<u>Future</u> DTAL <u>Phases</u>
Operating Funded Life Cycle	18,600	0	0 0	0	0 0
TOTAL FUNDING	18,600				0 0
OPERATING BUDGET IN	ИРАСТ Рег	rsonnel Non Per \$0 \$0		Expenditures/(Rev \$0	enues)
DCA/LIFE CYCLE DETAI	LS				
DCA			Amount in	Life Cycle	
Name		Yea	ar Amount Study	 Amount in Stu 	dy: 61,100
				Amount Incl H	
				Year in the stu	
DCA and/or Life Cycle:	Explain if there is	a change in the year	r and/or cost:	Tear in the st	My 2024
					1
					1

2024 PROJECT FUND	DING REQUEST FORM Number	24169
Project Name: St. Roberts Soccer Dome Painting Project	Project Cost:	\$27,000
		iir/Replace
Commission: Community Services Department: Recreation Services	Useful Life: 12	Pre Approval:
Project Mgr: Martin Barrow	Category: Minor	
Ward(s): $CW \square 1 \checkmark 2 \square 3 \square 4 \square$	Cost Validation: Recent awards	
	Requirement Validation: Condition assessmed ITS Involved Project: Is ITS Consulted?	ent
DETAILED DESCRIPTION (SCOPE OF PROJECT):		

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This project is to paint the interior of the St Roberts Soccer Dome clubhouse. Work will include painting the lobby, washrooms, change rooms, common areas and all doors. Also included is epoxy paint on the washroom floors. The upkeep of the facility helps to maintain City's standards.

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The paint within the St. Roberts Soccer Dome clubhouse an
Cost/Quote:	26,500	0	original and was painted in 2011. Some areas inside the so
Internal Charges:	0	0	clubhouse have been touched up. However, a recent conditi
External Consulting:	0	0	assessment determined that the paint has deteriorated and re is required. The amount requested is consistent with recent
Contingency %: 0	0	0	award plus inflation.
Sub Total:	26,500	0	Cost per sq.ft. of paint including labour is \$3.93 per sq.ft., th
HST Impact:	466	0	6,851 sq. ft. of space that has been identified to be repainted x 6,851 sq. ft. = $$26,924$
Total Project Cost:	27,000	0	

SOURCE(S) OF FUNDING (\$) Components <u>Future</u> Funding Type **TOTAL** Phases **Budget** Operating Funded Life Cycle 27,000 0 0 0 0 0 0 27,000 0 0 **TOTAL FUNDING**

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

Ta ma	Year Amount	Amount in	<u>Life Cycle</u>	
lame	Teal Amount	Study	Amount in Study: 36	,70
			Amount Incl HST 27	,00
			Year in the study	202
OCA and/or Life Cycle: Explain if there	8 5			

ARKHAM 2024 PROJECT FUNI	DING REQUEST FO	N N	umber:	24170
oject Name: St. Roberts Soccer Dome Washroom Co	unter Poplacement	Project	Cost:	\$9,000
			Repair	r/Replace
Commission: <u>Community Services</u> Department: <u>Recreation Services</u>		Useful Life:	12	Pre Approval:
Project Mgr: Martin Barrow	Category:	Minor		
Ward(s): $CW \square 1 \blacksquare 2 \square 3 \square 4 \square$	Cost Validation:	Third party	estimate	;
5 6 7 8	Requirement Validation:	Condition a	issessmei	nt
TAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is	ITS Consulte	ed?	

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Counter tops with sinks are original to the soccer defined and the soccer defined a
Cost/Quote:	8,800	0	installed in 2011. A condition assessment indicates
Internal Charges:	0	0	is warranted. The amount requested is consistent with Cost non-sound to the $x = \frac{1}{2} \frac{1}$
External Consulting:	0	0	Cost per counter top = $4,400 \times 2$ countertops = $8,8$
Contingency %: 0	0	0	
Sub Total:	8,800	0	
HST Impact:	155	0	
Total Project Cost:	9,000	0	

SOURCE(S) OF FUNDING (\$	<u> </u>		Compone	ents			F -4
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	9,000	0	0	0	0	0	0
TOTAL FUNDING	9,000					0	0

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

DCA	Amount in	Life Cycle
Name	Year Amount Study	Amount in Study: 36,700
		Amount Incl HST 9,000
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost.	Year in the study 2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024

2024 PROJECT FUN	DING REQUEST FORM Number:	24171
Project Name: Thornhill C.C. East Rink Arena Netting	Project Cost:	\$17,000
		/Replace
Commission: Community Services	Useful Life: 20	Pre Approval:
Department: <u>Recreation Services</u>		rie Appiovai. —
Project Mgr: Martin Barrow	Category: Minor	
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Third party estimate	
	Requirement Validation: Condition assessmer	nt
5 6 7 8	·	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?	

This project is to replace the safety netting inside the East Rink at Thornhill C.C. Arena netting is used to prevent hockey pucks from leaving the ice surface and is used to prevent spectators injuries. The existing netting is only located on the ends of the rink to protect users of the fitness track. Since the netting was installed, industry standard has changed, where arena netting is now to completely enclose ice rinks.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES The existing netting was installed in 2003. A condition asse
Cost/Quote:	16,700	0	indicates replacement is warranted. This project will involve
Internal Charges:	0	0	300 feet of netting extending from the top of the arena glass ceiling of the arena. The amount requested is consistent with
External Consulting:	0	0	quote.
Contingency %: 0	0	0	quote.
Sub Total:	16,700	0	
HST Impact:	294	0	
Total Project Cost:	17,000	0	

SOURCE(S) OF FUNDING (S)

SOURCE(S) OF FUNDING (\$)	<u> </u>		Compon	ents			Futuro
Funding Type	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	17,000	0	0	0	0	0	0
TOTAL FUNDING	17,000				=	0	0

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

DCA		Amount in	Life Cycle	
Year Amount Study	Amount in Study:	1,086,700		
			Amount Incl HST	17,000
				r
			Year in the study	202
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:		Year in the study	2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:		Year in the study	202

MARKHAM 2024 PROJECT FUND	-	Ν	umber:	24172
Project Name: Thornhill C.C. Fitness Spa Replacement		Project	Cost:	\$326,500
			Repair	/Replace
Commission: Community Services		Useful Life:	20	Pre Approval:
Department: <u>Recreation Services</u>	C t		20	rie rippio (un
Project Mgr: Martin Barrow	Category	y: Minor		
Ward(s): $CW \square 1 \checkmark 2 \square 3 \square 4 \square$	Cost Validation	n: Third party	estimate	
	Requirement Validation	n: Condition a	issessmen	ıt
5 6 7 8	ITS Involved Project: Is			
ETAILED DESCRIPTION (SCOPE OF PROJECT):	115 Involved Project: Is	s 115 Consulte		

reason, the replacement spas cannot be purchased and installed as the originals, since they cannot be brought into the building in one

310

Future

Phases

0

0

TOTAL

0

0

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Existing spas are original to the fitness expansion in 2005. A
Cost/Quote:	291,700	0	condition assessment indicates that replacement of both spa units
Internal Charges:	0	0	warranted. New spas will be built in place concrete units that will
External Consulting:	0	0	then be built and tiled in the existing spa location. Work to includ new pumps, motors, filters, fittings and plumbing. The amount
Contingency %: 10	29,170	0	requested is consistent with recent quote.
Sub Total:	320,870	0	
HST Impact:	5,647	0	
Total Project Cost:	326,500	0	

SOURCE(S) OF FUNDING (\$) Components Funding Type Budget Operating Funded Life Cycle 326,500 0 0 0 TOTAL FUNDING 326,500 326,500 0 0 0

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

DCA/LIFE CYCLE DETAILS

piece.

Name		Amount in	Life Cycle	
Name	Year Amount	t Study	Amount in Study:	1,086,700
			Amount Incl HST	326,500
			Year in the study	2024
DCA and/or Life Cycle: Explain if there is a c				

2024 PROJECT FUNDI	NG REQUEST FOR	RM Number:	24173
Project Name: Thornhill C.C. Industrial Kitchen Equipm	ent Replacement	Project Cost:	\$6,000
		Repair/	/Replace
Commission: <u>Community Services</u> Department: <u>Recreation Services</u> Project Mgr: Martin Barrow	Us Category: N		Pre Approval:
Ward(s): $_{CW}$ \square $_{1}$ \checkmark $_{2}$ \square $_{3}$ \square $_{4}$ \square $_{5}$ \square $_{6}$ \square $_{7}$ \square $_{8}$ \square	Cost Validation: Requirement Validation: ITS Involved Project: Is IT		· · · · · · · · · · · · · · · · · · ·
DETAILED DESCRIPTION (SCOPE OF PROJECT): This project is to replace one (1) industrial convection oven in the n	-		on oven is used by
facility bookings, instructional programs and supports programs an			•

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES This project is to replace the existing convection oven in the main
Cost/Quote:	5,900	0	hall kitchen at Thornhill C.C. Existing oven was installed in 1995.
Internal Charges:	0	0	A condition assessment of the unit indicates replacement is
External Consulting:	0	0	warranted. The oven is used regularly by large events and rentals at Thornhill C.C. This replacement will be able to support city run
Contingency %: 0	0	0	cooking programs as well as large catered events in which cooking
Sub Total:	5,900	0	is done onsite. The amount requested is consistent with recent
HST Impact:	104	0	quote.
Total Project Cost:	6,000	0	

SOURCE(S) OF FUNDING (S	<u>\$)</u>		Compon	ents			E
<u>Funding Type</u>	Budget					<u>TOTAL</u>	<u>Future</u> Phases
Operating Funded Life Cycle	6,000	0	0	0	0	0	0
TOTAL FUNDING	6,000					0	0

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

<u>DCA</u>	Amount in	Life Cycle
Name	Year Amount Study	Amount in Study: 1,086,700
		Amount Incl HST 6,000
		Year in the study 2024
DCA and/or Life Cycle: Explain if there is a	a change in the year and/or cost:	

2024 PROJECT FUNDING REQUEST FORM ARKHAM Number: 24174 **Project Cost:** \$27,000 Project Name: Thornhill C.C. Pro Shop Flooring Replacement Repair/Replace Commission: Community Services Pre Approval: Useful Life: 25 Department: Recreation Services Category: Minor Project Mgr: Martin Barrow Cost Validation: Third party estimate Ward(s): CW □ 1 2 □ 3 □ 4 □ Requirement Validation: Other(specify in Notes) 5 6 7 8 ITS Involved Project: Is ITS Consulted? **DETAILED DESCRIPTION (SCOPE OF PROJECT):** This project is to replace the existing tile floor in the former pro shop with a sprung wood floor. In 2022 the existing pro shop vendor closed and vacated its existing space. The space was then determined to be best use for community programs and services. Upgrading the existing tile floor with a sprung wood floor will allow for multipurpose use of the space, whereby multiple user groups can utilize the space for activities and rentals. The work includes material, labour and all other trades required for the work. **BUILDING MARKHAM'S FUTURE TOGETHER:** Exceptional Services by Exceptional People NOTES **PROJECT COSTS (\$)** 2024 **Future Phases** Existing tiles flooring were installed in 2001. A condition Cost/Quote: 26,500 0 assessment of the space indicate replacement is warranted. The flooring replacement is being completed ahead of the flooring 0 Internal Charges: 0 lifecycle because of a recent opportunity to repurpose the space. 0 **External Consulting:** 0 There is a approximately 1,350 sq. ft. of flooring being replaced. Contingency %: 0 0 0 Cost of sprung wooden floors plus removal, labour and installation 0 Sub Total: 26,500 is \$19.66 per sq. ft. x 1,350 sq. ft. = \$26,541 0 HST Impact: 466 **Total Project Cost:** 27,000 0 SOURCE(S) OF FUNDING (\$) **Components** Future **Funding Type** Phases TOTAL Budget 0 0 0 Operating Funded Life Cycle 27.000 0 0 0 0 0 **TOTAL FUNDING** 27,000 **Non Personnel Expenditures/(Revenues)** Personnel Revenues **OPERATING BUDGET IMPACT** \$0 \$0 \$0 \$0 **DCA/LIFE CYCLE DETAILS** DCA Amount in Life Cycle Year Amount Name Study Amount in Study: 1,086,700 27,000 Amount Incl HST Year in the study 2024 DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

MARKHAM 2024 PROJECT FUND	DING REQUEST FO	RM Number:	24175
Project Name: Thornhill C.C. Refrigeration System Rep	alacement	Project Cost:	\$605,000
		Repair	/Replace
Commission: <u>Community Services</u> Department: <u>Recreation Services</u>	τ	Useful Life: 25	Pre Approval:
Project Mgr: Martin Barrow	Category:	Major	
Ward(s): $CW \square 1 \checkmark 2 \square 3 \square 4 \square$	Cost Validation:	Third party estimate	
	Requirement Validation:	Condition assessmen	nt
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is	ITS Consulted? \Box	
This project is to replace five (5) arena compressors, header pipe The identified refrigeration equipment is critical in the refrigerati			

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The existing five (5) compressors were last replaced in 2001 and are
Cost/Quote:	540,500	0	past their useful life. The header pipes are showing corrosion and it
Internal Charges:	0	0	was determined that these should be replaced. The plate and frame gaskets have reached their useful life as determined by the
External Consulting:	0	0	manufacturer. Based on condition assessment on the assets,
Contingency %: 10	54,050	0	replacement is warranted. The amount requested is consistent with
Sub Total:	594,550	0	recent quote.
HST Impact:	10,464	0	
Total Project Cost:	605,000	0	

SOURCE(S) OF FUNDING (<u>(\$)</u>		Compor	nents			F
Funding Type	Budget	Compressors	Header Pipes	P&F Gasket		TOTAL	<u>Future</u> Phases
Operating Funded Life Cycle	605,000	391,776	167,904	45,320	0	605,000	0
TOTAL FUNDING	605,000				-	605,000	0

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

Year in the study 2024 DCA and/or Life Cycle: Explain if there is a change in the year and/or cost: 2024

Thornhill Refrigeration System Replacement

- Recent condition assessment completed by CIMCO indicates that the condition of the existing compressors are poor and that replacement needs to occur in 2024.
- Staff are completing an Arena Refrigeration System study to determine the safest and most effective refrigerant to use at all facilities across Markham.
- The arena study is currently underway. Its outcome and recommendation will determine the type of refrigerant to utilize for this particular project.
- Staff positioned the refrigeration system to align a full replacement, such that the replacement system can support the City's Net Zero Energy Efficiency goals

CIMCO Condition Assessment

Thornhill Community Centre

Refrigeration Equipment	Model	Estimate Condition	Estimated Age	Photo
Compressor 1	Mycom N8WA 50HP	Poor	22 Years	
Compressor 2	Mycom N8WA 50HP	Poor	22 Years	
Compressor 3	Mycom N6WA 50HP	Poor	22 Years	
Compressor 4	Mycom N6WA 50 HP	Poor	22 Years	
Compressor 5	Mycom N4WA 30 HP	Poor	22 Years	
Electrical Panel	CIMCO	OK	22 Years	
Condenser		OK	7 Years	
Condenser		OK	22 Years	



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2024 PROJECT FUNDING REQUEST FORM

Number: 24176

Project Name: The archill C.C. Windows and Walls Defund	hishmon4	Project C	ost:	\$82,400
Project Name: Thornhill C.C. Windows and Walls Refur			Repair	/Replace
Commission: <u>Community Services</u> Department: <u>Recreation Services</u>			30	Pre Approval:
Project Mgr: Martin Barrow	Category: M		·· ,	
Ward(s): $CW \square 1 \checkmark 2 \square 3 \square 4 \square$	Cost Validation: 7 Requirement Validation: 6	1 2		t
$5 \square 6 \square 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is IT			·
This project is to refurbish windows and walls at Thornhill C.C. T 1. Refurbish the existing expansion joints around the building. Exte			t built co	ontinuously. During

1. Refurbish the existing expansion joints around the building. Exterior brick walls on large buildings are not built continuously. During construction, walls are built in sections with vertical joints joining the sections. These joints are called expansion joints and allow for small movement (expansion and contraction) of the wall sections. Joints are filled with a foam bead and then caulking to maintain the integrity of the wall system. Over time the caulking and foam will break down due to exposure to the elements, requiring the joints to be refurbished.

2. Add one (1) window to the old pro shop, which will be converted into a community space and staff offices. Adding a window will make the space much more appropriate.

3. Add one (1) window in two existing staff offices. Currently, the offices have no natural light and this project will provide each office with a small window facing outside to allow natural light into the spaces.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Existing expansion joints were installed in 1975. The caulking has
Cost/Quote:	81,000	0	dried out and has deteriorated. A condition assessment of the joints
Internal Charges: External Consulting: Contingency %: 0	0 0 0	0 0 0	indicates refurbishment is warranted. In addition three (3) windows will be added to the old pro shop that is being converted into community space and to two offices within Thornhill C.C. Cost
Sub Total:	81,000 1,426 82,400		include consulting costs, tender review, structural review, site visits and necessary drawings to apply for building permits. The amount requested is consistent with recent quote.

SOURCE(S) OF FUNDING (\$)				Components				F uturo
Funding Type	<u>Budget</u>	Expansio	on Joint	Windows			<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle TOTAL FUNDING	82,400 82,400	24,4	00 58,0	00	0	0	82,400 82,400	0 0
OPERATING BUDGET IMPAC	CT Pe	rsonnel 3	Non Personne \$0	Revenue \$0	es	Expenditures/(\$0	(Revenues)	

DCA/LIFE CYCLE DETAILS

ARKHAM

<u>DCA</u>	X 7 A A	Amount in	Life Cycle	
Name	Year Amount	Study	Amount in Study:	1,086,700
			Amount Incl HST	82,400
			Year in the study	2024
DCA and/or Life Cycle: Explai	n if there is a change in the year and/or cost:			
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cost:			
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cost:			
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cost:			

MARKHAM			ING REQUEST FO	Number:	24	1177
				Project Cost:	\$85,	,800
Project Name: Water St.	Seniors Centre	Flooring Replac	cement	Repair	/Replac	e
Commission: Community	Services		Т	Useful Life: 15		proval:
Department: <u>Recreation</u>	Services				rie Ap	provai. 🗆
Project Mgr: <u>Luke Hilts</u>			Category:			
Ward(s): $_{CW} \square _1 \square$	2 3 4			Third party estimate		
5 🗌	6 7 8		Requirement Validation:		it	
DETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):	ITS Involved Project: Is	ITS Consulted?		
The sprung gymnasium floor BUILDING MARKHAM'S			ogram additional services tha	at can support seniors i	in the co	ommunity.
PROJECT COSTS (\$)	2024	Future Phases	NOTES	· · · · · · · · · · · · · · · · · · ·	000 1	11.1
Cost/Quote:	76,650	0	The existing parquet floor assessment indicated that			
Internal Charges:	0	0	replacement was done in			
0						
External Consulting:	0	0		istent with recent quot	e.	
External Consulting: Contingency %: 10	0 7,665	0	amount requested is const Cost per sq. ft. including ft. = \$76,650.		e.	
•	-		Cost per sq. ft. including		e.	
Contingency %: 10	7,665	0	Cost per sq. ft. including		e.	
Contingency %: 10 Sub Total:	7,665 84,315	0	Cost per sq. ft. including		e.	
Contingency %: 10 Sub Total: HST Impact: Total Project Cost:	7,665 84,315 1,484 85,800	0 0 0	Cost per sq. ft. including		e.	x 3,898 sq
Contingency %: 10 Sub Total: HST Impact: Total Project Cost: OURCE(S) OF FUNDING	7,665 84,315 1,484 85,800	0 0 0	Cost per sq. ft. including ft. = \$76,650.	labour and material is	e.	
Contingency %: 10 Sub Total: HST Impact: Total Project Cost: SOURCE(S) OF FUNDING	7,665 84,315 1,484 85,800	0 0 0	Cost per sq. ft. including ft. = \$76,650.	labour and material is	e. \$19.66	x 3,898 sq <u>Future</u> <u>Phases</u>
Contingency %: 10 Sub Total: HST Impact: Total Project Cost: SOURCE(S) OF FUNDING	7,665 84,315 1,484 85,800	0 0 0 0	Cost per sq. ft. including ft. = \$76,650. Components	labour and material is	e. \$19.66	x 3,898 sq <u>Future</u>
Contingency %: 10 Sub Total: HST Impact: Total Project Cost: SOURCE(S) OF FUNDING Funding Type Operating Funded Life Cycle TOTAL FUNDING	7,665 84,315 1,484 85,800 5 (\$) Budget 85,800 85,800 85,800	0 0 0 0 0 rsonnel Non Pe	Cost per sq. ft. including ft. = \$76,650. Components 0 0 0 ersonnel Revenues	labour and material is Interview Interview <td>e. \$19.66 DTAL 0 0 0</td> <td>x 3,898 sq <u>Future</u> <u>Phases</u></td>	e. \$19.66 DTAL 0 0 0	x 3,898 sq <u>Future</u> <u>Phases</u>
Contingency %: 10 Sub Total: HST Impact: Total Project Cost: COURCE(S) OF FUNDING	7,665 84,315 1,484 85,800 5 (\$) Budget 85,800 85,800 85,800	0 0 0 0 0 0 rsonnel Non Pe	Cost per sq. ft. including ft. = \$76,650. Components 0 0 0	labour and material is	e. \$19.66 DTAL 0 0 0	x 3,898 sq <u>Future</u> <u>Phases</u>
Contingency %: 10 Sub Total: HST Impact: Total Project Cost: COURCE(S) OF FUNDING Funding Type Derating Funded Life Cycle TOTAL FUNDING	7,665 84,315 1,484 85,800 5 (\$) Budget 85,800 85,800 85,800 Per	0 0 0 0 0 rsonnel Non Pe	Cost per sq. ft. including ft. = \$76,650. Components 0 0 0 ersonnel Revenues	labour and material is Interview Interview <td>e. \$19.66 DTAL 0 0 0</td> <td>x 3,898 sc <u>Future</u></td>	e. \$19.66 DTAL 0 0 0	x 3,898 sc <u>Future</u>
Contingency %: 10 Sub Total: HST Impact: Total Project Cost: COURCE(S) OF FUNDING Funding Type Deperating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET IN DCA/LIFE CYCLE DETAL DCA	7,665 84,315 1,484 85,800 5 (\$) Budget 85,800 85,800 85,800 Per	0 0 0 0 0 0 0 0 0 0 0 50 \$	Cost per sq. ft. including ft. = \$76,650. Components 0 0 ersonnel Revenues 50 \$0 Amount in	labour and material is Interview Interview <td>e. \$19.66 DTAL 0 0 0</td> <td>x 3,898 so <u>Future</u></td>	e. \$19.66 DTAL 0 0 0	x 3,898 so <u>Future</u>
Contingency %: 10 Sub Total: HST Impact: Total Project Cost: SOURCE(S) OF FUNDING Funding Type Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET IN DCA/LIFE CYCLE DETAI	7,665 84,315 1,484 85,800 5 (\$) Budget 85,800 85,800 85,800 Per	0 0 0 0 0 rsonnel Non Pe	Cost per sq. ft. including ft. = \$76,650. Components 0 0 ersonnel Revenues 50 \$0 Amount in	labour and material is TO 0 Expenditures/(Reve	e. \$19.66 DTAL 0 0 	x 3,898 sc <u>Future</u>
Contingency %: 10 Sub Total: HST Impact: Total Project Cost: SOURCE(S) OF FUNDING Funding Type Operating Funded Life Cycle TOTAL FUNDING OPERATING BUDGET IN DCA/LIFE CYCLE DETAI DCA	7,665 84,315 1,484 85,800 5 (\$) Budget 85,800 85,800 85,800 Per	0 0 0 0 0 0 0 0 0 0 0 50 \$	Cost per sq. ft. including ft. = \$76,650. Components 0 0 ersonnel Revenues 50 \$0 Amount in	labour and material is Ibour and material is <	e. \$19.66 DTAL 0 0 enues)	x 3,898 sc <u>Future</u> <u>Phases</u>

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

MARKHAM 2024 PROJECT FUND	DING REQUEST FORM Number	: 24178
Project Name: Water St. Seniors Centre HVAC and Fai	Project Cost:	\$39,200
		ir/Replace
Commission: Community Services	Useful Life: 20	Pre Approval: 🗹
Department: <u>Recreation Services</u>		rie rippio val.
Project Mgr: Luke Hilts	Category: Minor	
Ward(s): $_{CW}$ \square $_1$ \square $_2$ \square $_3$ \square $_4$	Cost Validation: Third party estimat	e
	Requirement Validation: Condition assessme	ent
5 6 7 8	ITS Involved Project: Is ITS Consulted? \Box	
DETAILED DESCRIPTION (SCOPE OF PROJECT):		

This project is to replace three (3) exhaust fans and one (1) 5-ton roof top HVAC unit at the Seniors Centre. The HVAC unit supplies heating and air conditioning to the seniors centre. For this project, the HVAC will be replaced and upgrade with an air source heat pump HVAC unit.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The existing (3) exhaust fans and roof top HVAC unit wer
Cost/Quote:	35,650	0	installed in 2004. A condition assessment indicated that
Internal Charges:	0	0	replacement for these assets is warranted. The amount requ
External Consulting:	0	0	consistent with recent quote. Cost per exhaust fan is $5,604 \ge 3 = 16,813$
Contingency %: 8	2,852	0	Cost per exhaust fan is $$3,004 \times 3 - $10,815$ Cost of AIHP HVAC is $$22,387$
Sub Total:	38,502	0	
HST Impact:	678	0	
Total Project Cost:	39,200	0	

SOURCE(S) OF FUNDING (\$)	Components			ts			Entra	
Funding Type	<u>Budget</u>	HVAC	Exhaust Fans			<u>TOTAL</u>	<u>Future</u> Phases	
Operating Funded Life Cycle	39,200	22,387	16,813	0	0	39,200	0	
TOTAL FUNDING	39,200				=	39,200	0	

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

Name Year Amount	Study	Amount in Study: [Amount Incl HST	137,700
		Amount Incl HST	39,200
		Year in the study	202
OCA and/or Life Cycle: Explain if there is a change in the year and/or cost:			

2024 PROJECT FUND	ING REQUEST FORM Number:	24179
Project Name: Water St. Seniors Centre Kitchen Equip	Project Cost:	\$9,800
		/Replace
Commission: Community Services	Useful Life: 13	Pre Approval:
Department: <u>Recreation Services</u>		
Project Mgr: Luke Hilts	Category: Minor	
Ward(s): $_{CW} \square 1 \square 2 \square 3 \square 4 \checkmark$	Cost Validation: Third party estimate	
	Requirement Validation: Condition assessmer	nt
5 6 7 8	ITS Involved Project: Is ITS Consulted?	
ETAILED DESCRIPTION (SCOPE OF PROJECT):	115 Involved Project: Is 115 Consulted?	

This project is to replace one (1) dishwasher in the kitchen at the Seniors Centre. The disherwasher is utilized on a regular basis by senior club members taking part in programs and services delivered at the Water Street Seniors Centre. The senior centre annually supports approximately 800 senior members.

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The existing di	ishwasher was	installed in	2011 A condi	ition
Cost/Quote:	8,770	0	assessment ind				
Internal Charges:	0	0	requested is co	onsistent with re	ecent quote.		
External Consulting:	0	0					
Contingency %: 10	877	0					
Sub Total:	9,647	0					
HST Impact:	170	0					
Total Project Cost:	9,800	0					
SOURCE(S) OF FUNDING	G (\$)		Compon	ents			F (
Funding Type	Budget	Dishwasher				TOTAL	<u>Futur</u> Phase
Dperating Funded Life Cycle	9,800	9,800	0	0	0	9,800	
TOTAL FUNDING	9,800				-	9,800	

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

DCA	Amount in	Life Cycle	
Name	Year Amount Study	Amount in Study:	137,700
		Amount Incl HST	9,800
		Year in the study	202
)CA and/or Life Cycle: Explain if t	here is a change in the year and/or cost:		

Markham Public Library

2024 PROJECT FUNDING REQUEST FORM

Number: 24180

		Project C	ost:	\$41,100
Project Name: Consulting Service for Ward 2 Community	y Consultation		Studie	es/Pilot Programs
Commission: Community Services	Ţ	Jseful Life:	0	Pre Approval:
Department: <u>Markham Public Library</u> Project Mgr: Catherine Biss	Category:		0	i io rippiovai.
Ward(s): $CW \square 1 \square 2 \checkmark 3 \square 4 \square$	Cost Validation:	Third party	estimate	2
valu(s). CW _ 1 _ 2 ♥ 3 _ 4 5 _ 6 _ 7 _ 8	Requirement Validation:	Other(specif	y in No	tes)
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulted	1? □	
Consultant services to conduct community consultation in Ward 2 t	o identify constituent needs	& priorities	for com	munity services &

facilities. Implement & advance BMFT Strategic Action 3.2.4 to Implement Integrated Leisure Master Plan for the City of Markham's Parks, Recreation, Culture and Libraries. Advance several ILMP 2019 recommendations, including #64 (to advance the development of a "major" community centre and library by approximately 2026, with a recommended location at the Victoria Square Community Centre site, and #101 (to develop a library branch to serve West Markham (approximately 20,000 to 30,000 ft2) in conjunction with a major community centre. Use of the City-owned Victoria Square site will avoid additional land costs.

The Ward 2 Councilor has indicated that his constituents feel that they are currently under-served re. City services. Ward 2 service gap was recognized in the 2019 ILMP in the context of projected population for the Future Urban Area & was identified as a priority area, i.e. for an additional Community Centre and Library in the northern part of Ward 2. (Angus Glen Community Centre & Library inadequate to fully serve the projected FUA additional residents).

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

PROJECT COSTS (\$)	<u>2024</u>	Future Phases
Cost/Quote:	0	0
Internal Charges:	0	0
External Consulting:	40,400	40,400
Contingency %: 0	0	0
Sub Total:	40,400	40,400
HST Impact:	711	711
Total Project Cost:	41,100	41,100

SOURCE(S) OF FUNDING (\$)		Components					
Funding Type	Budget	Consulting				TOTAL	<u>Future</u> <u>Phases</u>
DCA	41,100	41,100	0	0	0	41,100	41,100
TOTAL FUNDING	41,100				=	41,100	41,100

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

DCA/LIFE CYCLE DETAILS

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

2024 PROJECT FUNDING REQUEST FORM

MARKHAM			-		Numb	per: 24	4181	
Project Name: Library F	urniture. Equin	ment & Shelvin	o Renlaceme	nt	Project Cost	: \$19]	1,100	
Commission: Community			,		R	epair/Replac	e	
			Useful Life: 10 Pre Approval:					
Department: <u>Markham Pr</u> Project Mgr: Catherine B	=			Category:	Annual			
	2 3 4		Cos	st Validation:	Recent awards			
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Requiremen	t Validation:	Condition assess	sment		
DETAILED DESCRIPTIO			ITS Involve	d Project: Is I	TS Consulted?			
To replace furniture/shelving maintain Library facilities & reputation as a highly attracti	that is broken and operations. The pu ive place in which	l/or in poor condition ublic library is a hig to live, work and st	gh use & valued udy.	d municipal so	ervice that contril			
BUILDING MARKHAM'S	S FUTURE TOG	ETHER: Exception	ional Services by	y Exceptional I	People			
PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES	will be used f	for replacement o	f public foot	ing loose	
Cost/Quote:	187,800	0			ons. Since 86% o			
Internal Charges:	0	0			64K) was spent o			
External Consulting:	0	0			s branch (\$314K) niture throughout			
Contingency %: 0	0	0			ondition assessme			
Sub Total:	187,800	0			here is a bit of a b			
HST Impact:	3,305	0			years' average sp the 2023 Life Cy			
Total Project Cost:	191,100	0	update.		2020 2 cy		Study	
OURCE(S) OF FUNDING	; (\$)		Compo	onents				
Funding Type	<u>Budget</u>	Furniture				<u>TOTAL</u>	<u>Future</u> <u>Phases</u>	
Dperating Funded Life Cycle	191,100	191,100	0	0	0	191,100	(
TOTAL FUNDING	191,100					191,100	(
	Pe	rsonnel Non Pe	rsonnel R	evenues	Expenditures/(Revenues)		
OPERATING BUDGET IN	<u>MPACT</u>	\$0 \$		\$0	\$0	· · · · · · · · · · · · · · · · · · ·		
DCA/LIFE CYCLE DETAI	ILS							
DCA				Amount in	Life Cyc	le		
Name		Yea	ar Amount	Study	— Amount in		191,100	
					1 1110 0110 11	i Stadj.		
					Amount In	cl HST	191 100	
					Amount In Year in th		191,100 2024	

GK.

Operations -Roads & Survey

2024 PROJECT FUNDING REQUEST FORM

MARKHAM	2024 PROJ	ECT FUNDIN	G REQ	UEST FOR	M Number:	24	182
Project Name: Asphalt R	ocurfacing				Project Cost:	\$3,70	5,200
	_				Repair	/Replac	e
Commission: <u>Community</u>				Us	eful Life: 20	Pre Ap	proval: 🗹
Department: <u>Operations</u> Project Mgr: Zoyeb Vaho				Category: N	Minor		
	2 3 4		Co	st Validation:	Recent awards		
	2 ··· 3 ··· 4 ··· 6 ··· 7 ··· 8 ···		Requiremer	t Validation:	Condition assessmer	nt	
DETAILED DESCRIPTIO			ITS Involve	d Project: Is IT	S Consulted?		
Asphalt resurfacing of roads overall goal is to maintain an designed to extend pavement testing, route and seal, steel, BUILDING MARKHAM	throughout the Cit acceptable paven t life and reduce ov and AC index. Va	y utilizing a pavement nent condition index an verall maintenance cos rious strategies are uti	nd user satis sts of the roa	afaction by impl ad network. Oth the specific basis	ementing cost effect er work includes int	tive stra terlock,	tegies
			NOTES				
PROJECT COSTS (\$) Cost/Quote:	<u>2024</u> 3,601,219	<u>Future Phases</u> 0	roads. 6 km	of two and four	roximately 16 km o r lane roads of pave	ment pro	eservation.
Internal Charges:	40,634				n starting in 2024 Tl 2021 pavement las		
External Consulting:	0				tifies 75.7% of the r		
Contingency %: 0	0	0	or better (lo	ng term target 8	30%). AC Index con	nponent	is \$768K.
Sub Total:	3,641,853				unt is \$7.7M of whi vember 2023 relatir		
HST Impact:	63,381		interlock an		vation components		
Total Project Cost:	3,705,200		project.				
SOURCE(S) OF FUNDING	; (\$)		Comp	onents			Future
Funding Type	<u>Budget</u>				<u>TC</u>	DTAL	Phases
Gas Tax	3,664,566	0	0	0	0	0	C
Operating Funded Life Cycle	40,634	0	0	0	0	0	C
TOTAL FUNDING	3,705,200					0	0
OPERATING BUDGET IN DCA/LIFE CYCLE DETA)	<u>MPACT</u>	rsonnel Non Perso \$0 \$0	onnel R	evenues I \$0	Expenditures/(Revo \$0	enues)	
DCALIFE CICLE DETAI				Amount in	Life Cycle		
Name		Year	Amount	Study		1 7	705 200
					Amount in Stud		,705,200
					Amount Incl H		,705,200
					Year in the stu	ıdy	2024
DCA and/or Life Cycle:	Explain if there is	a change in the year a	and/or cost:				
\$4M is being accelerated	l and has been app	roved by Council as a	n in-year 20	23 capital proje	ect.		

Project	Asphalt Resurfacing
2024 Capital Request	\$3,705,200
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	
Related Maps	
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.



2024 PROJECT FUNDI	NG REQUEST FORM	mber: 24183
Project Name: Boulevard Repairs	Project C	ost: \$88,000
		Repair/Replace
Commission: Community Services	Useful Life:	10 Pre Approval:
Department: <u>Operations - Roads & Survey</u> Project Mgr: Taylor Thomson	Category: Annual	
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Recent awar	ds
	Requirement Validation: Condition as	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted	

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The purpose of this project is to maintain boulevard areas in good condition to minimize hazards for pedestrians. Repairs to boulevards throughout the City are for interlock brick pavers only (does not include concrete, curb or asphalt).

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Locations will be determined by condition assessment to be done in
Cost/Quote:	86,519	0	spring 2024. Installation cost is \$37/m2. The budget allows for
Internal Charges:	0	0	2378 SqM to be repaired. This is an annual program. There is no substantial backlog within this program and the boulevards are in a
External Consulting:	0	0	state of good repair.
Contingency %: 0	0	0	Unit cost is consistent with recent award plus inflation.
Sub Total:	86,519	0	
HST Impact:	1,523	0	
Total Project Cost:	88,000	0	

SOURCE(S) OF FUNDING (Compone	ents			F 4	
<u>Funding Type</u>	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	88,000	0	0	0	0	0	0
TOTAL FUNDING	88,000					0	0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 88,000
		Amount Incl HST 88,000
		Year in the study 2024

2024 PROJECT FUND	DING REQUEST FO	RM	Number:	24184
Project Name: Bridge Structure Preventative Maintena	nce - Roads	Projec	t Cost:	\$27,400
Community Services Department: Operations - Roads & Survey	U Category:	Jseful Life Annual		/Replace Pre Approval:
Project Mgr:Taylor ThomsonWard(s):CW12345678	Cost Validation: Requirement Validation:	Recent av		t
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consul	Ited?	

Annual preventative maintenance of the 27 City owned bridge/culvert structures on an as required basis. Work to be carried out on an as required basis which includes fill and grade bridge approaches, route and seal cracks on bridge decks, concrete sealer application, concrete patches on approach.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES Locations to be determined upon condition assessment. T
Cost/Quote:	26,900	0	substantial backlog and Bridge structures are in a state of g
Internal Charges:	0	0	repair. Operations is responsible for preventative maintenation bridges/culverts such as minor grading, patching, sealing or
External Consulting:	0	0	approaches and bridge decks, while Environmental Service
Contingency %: 0	0	0	responsible for its inspection/rehabilitation and replacement
Sub Total:	26,900	0	Amount requested is consistent with the 2023 Life Cycle Re
HST Impact:	473	0	Study update.
Total Project Cost:	27,400	0	
=			

SOURCE(S) OF FUNDING (\$)			ents			Entuno
<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
27,400	0	0	0	0	0	0
27,400					0	0
-	27,400	27,400 0	Budget 27,400 0 0	Budget 0 0 0 27,400 0 0 0	Budget 0 <td>Budget TOTAL 27,400 0 0 0 0</td>	Budget TOTAL 27,400 0 0 0 0

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

<u>DCA</u>	Amount ir	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study:
		Amount Incl HST
DCA and/or Life Cycle: Explai	in if there is a change in the year and/or cost:	Year in the study
		·
	in if there is a change in the year and/or cost: ental Services (\$53,800) and is split 50:50 between Road	·
		·

MARKHAM 2024 PROJECT FUNL	DING REQUEST FORM	Number:	24185
Project Name: City Owned Entrance Feature Rehabilit	Ū.	ct Cost:	\$22,200
		Repair	r/Replace
Commission: Community Services Department: Operations - Roads & Survey Project Mgr: Zoyeb Vahora	Useful Lif Category: Annual	e: 20	Pre Approval:
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$	Cost Validation: Recent a Requirement Validation: Condition		nt
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Const	ulted?	

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Location for 2024 is Kennedy Road and Bur Oak Ave.
Cost/Quote:	21,825	0	owns 144 features, there are 170 known to be located on
Internal Charges:	0	0	property with the remaining 17 of uncertain ownership for
External Consulting:	0	0	inventory of 331.
Contingency %: 0	0	0	
Sub Total:	21,825	0	
HST Impact:	384	0	
Total Project Cost:	22,200	0	

SOURCE(S) OF FUNDING	(\$)		Compon	ents			Entuno
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	22,200	0	0	0	0	0	0
TOTAL FUNDING	22,200					0	0

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

<u>DCA</u>	.	Amount in	<u>Life Cycle</u>	
Name	Year Amou	int Study	Amount in Study: 22,2	200
			Amount Incl HST 22,2	200
			Year in the study 2	024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or co	ost:		
DCA and/or Life Cycle: Explain	if there is a change in the year and/or co	ost:		

2024 PROJECT FUNDI	~	N	umber:	24186
Project Name: City Owned Fence Replacement Program		Project	Cost:	\$41,000
			Repair	Replace
Commission: Community Services	U	Jseful Life:	25	Pre Approval:
Department: <u>Operations - Roads & Survey</u> Project Mgr: Taylor Thomson	Category:	Annual		
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation:	Recent aw	ards	
	Requirement Validation:	Condition	assessmen	ıt
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consult	ed?	

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases
Cost/Quote:	40,310	0
Internal Charges:	0	0
External Consulting:	0	0
Contingency %: 0	0	0
Sub Total:	40,310	0
HST Impact:	709	0
Total Project Cost:	41,000	0

SOURCE(S) OF FUNDING	(\$)		Compon	ents			E4
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	41,000	0	0	0	0	0	0
TOTAL FUNDING	41,000					0	0

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

<u>DCA</u>	Amou		<u>Life Cycle</u>	
Name	Year Amount Stu	dy	Amount in Study:	139,500
			Amount Incl HST	41,000
			X 7 1 1	2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:		Year in the study	2022
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:		Year in the study	2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:		Year in the study	2024

2024 PROJECT FUNDING REQUEST FORM

2/197

MAKKHAM					Nı	umber:	24	4187	
					Project (Cost:	\$149	,800	
Project Name: Citywide	e Ditching Progra	m				Repai	r/Replac	e	
Commission: Communit	ty Services			τ	Jseful Life:	25		proval:	
Department: Operation				Category:				provun	
Project Mgr: <u>Anthony I</u>			Co	st Validation:		rds			—
				nt Validation:			nt		
	6 7 8		•	ed Project: Is l					
DETAILED DESCRIPTI Annual ditch restoration pro	· ·	<i>,</i>					nt of the	broadar	
storm drainage system. The infrastructure. The scope of previously hauling the mate disposal site at a later date. eliminating any double han BUILDING MARKHAM	e program will protect f the project has been erial to 555 Miller A Now the material w dling and streamlinin	et the City's investment in increased to now in ve where Operation ill be hauled directly ing efficiency.	nents in road a include the tea is had to stock	maintenance a sting and disp spile, test, and s site to the di	nd avoid earl osal of the ma haul the mate	y erosio aterial. (erial a se	n of Mar Contract econd tir	rkham's ors were ne to the	
	I STOTEME TOO		Bustannabie et	Junitarity					
PROJECT COSTS (\$)	2024	<u>Future Phases</u>	NOTES	•••	11 11 /	· , ·		. 1	
Cost/Quote:	147,211	0	The ditching program will be able to maintain up to 4 linear per year. Ditch restoration work will be undertaken as part of						
Internal Charges:	0	0	annual capi	tal road impro	ovements prog	gram and	d done p	rior to	
External Consulting:	0	0	undertaking	g road rehab w	ork on roads	with run	al profil	es.	
Contingency %: 0	0	0							
Sub Total:	147,211	0							
HST Impact:	2,591	0							
Total Project Cost:	149,800	0							
SOURCE(S) OF FUNDIN	<u>G (\$)</u>		Comp	onents				Future	
Funding Type	<u>Budget</u>					<u>T(</u>	<u>DTAL</u>	<u>Phase</u>	
Operating Funded Life Cycle	149,800	0	0	0	0)	0		0
TOTAL FUNDING	149,800						0		0
ODED ATING DUDGET	Per Per	sonnel Non Pe	rsonnel F	Revenues	Expenditur	res/(Rev	enues)		
OPERATING BUDGET	IMPACI	\$0 \$	0	\$0		\$0			
DCA/LIFE CYCLE DETA	AILS								
<u>DCA</u>				Amount in	Life	Cycle			
Name		Yea	ar Amount			nt in Stu	dv	149,800	7
						nt Incl H	-	149,800	_
						in the st		2024	_
			_		i cui	in the st		202-	1
DCA and/or Life Cycle	e: Explain if there is	a change in the yea	r and/or cost:						

2024 PROJECT FUNI	DING REQUEST FORM Number	: 24188
Project Name: Don Mills Storm Channel	Project Cost:	\$21,500
Commission: <u>Community Services</u> Department: <u>Operations - Roads & Survey</u> Project Mgr: Steven Dollmaier	Useful Life: 1 Category: Annual	ir/Replace Pre Approval:
Ward(s): $_{CW}$ \square $_{1}$ \square $_{2}$ \square $_{3}$ \square $_{4}$ \square $_{5}$ \square $_{6}$ \square $_{7}$ \square $_{8}$ \checkmark DETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: Requirement Validation: Condition assessme ITS Involved Project: Is ITS Consulted?	ent

Storm channel is located east of Woodbine between Steeles and John Street. Remove overgrowth, vegetation and debris from storm channel to ensure proper storm water conveyance. Program will include periodic clean-up of debris, garbage and excess vegetation found in the channel. It will also include channel maintenance after large storm events, and in response to dumping.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases
Cost/Quote:	21,100	0
Internal Charges:	0	0
External Consulting:	0	0
Contingency %: 0	0	0
Sub Total:	21,100	0
HST Impact:	371	0
Total Project Cost:	21,500	0

SOURCE(S) OF FUNDING (<u>(\$)</u>		Compon	ents			F 4
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	21,500	0	0	0	0	0	0
TOTAL FUNDING	21,500					0	0

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

<u>DCA</u>	Amount in	Life Cycle		
Name Year Amount Study	Amount in Study:			
	Amount Incl HST			
		Year in the study		
• •	ervices.			
DCA and/or Life Cycle: Explain if the Life Cycle resides in Environmental Se				

MARKH	2024 PROJECT FUNDING	G REQUEST FO	RM	Number:	24189
Project Name:	Guiderail- Install/Upgrade		Project	Cost:	\$216,800
				Repair	/Replace
	Community Services Operations - Roads & Survey	Ŭ	Jseful Life:	15	Pre Approval:
•	Taylor Thomson	Category:	Annual		
	w ✓ 1 □ 2 □ 3 □ 4 □	Cost Validation:	Recent av	/ards	
		equirement Validation:	Condition	assessmen	t

5 6 7 8

DETAILED DESCRIPTION (SCOPE OF PROJECT):

ITS Involved Project: Is ITS Consulted?

Install new or upgrade existing guiderail to meet new Provincial Standards and minimize maintenance. Program ensures that the City maintains safe roadways for users.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES 182 locations identified in inventory. Guiderails are upgra
Cost/Quote:	213,020	0	meet standards only when they are due for replacement. T
Internal Charges:	0	0	no substantial backlog in this program. Locations identified
External Consulting:	0	0	2024 South of 300 Steelcase (24lm), Old 9th Line (2-9lm &
Contingency %: 0	0	0	30lm)), W of 6493 Elgin Mills (2- 50lm &30lm), Robinson 33lm & 9lm)), Robinson Laneway (5lm), 80 Sprucewood (
Sub Total:	213,020	0	Green Lane Valley (4- 66lm, 24lm, 69lm, 63lm), and Old 1
HST Impact:	3,749	0	(24lm).
Total Project Cost:	216,800	0	

SOURCE(S) OF FUNDING ((\$)		Compone	ents			E4
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	216,800	0	0	0	0	0	0
TOTAL FUNDING	216,800					0	0

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

DCA/LIFE CYCLE DETAILS

DCA			Amount in	Life Cycle	
Name	Year Amount		Study	Amount in Study:	10,800
				Amount Incl HST	216,800
				Year in the study	2024

6 locations are not currently in Life Cycle - 1. Old 9th Line (2) 2. West of 6493 Elgin Mills E (2) 3. Robinson St (2) 4. Robinson Laneway 5.80 Sprucewood 6. Green Lane Valley Southwest and will be added in the next Life Cycle update and 4 were accelerated locations include Green Lane Valley (3) and Old 17th Ave road terminus.

MARKHAM 2024 PROJECT FUN	DING REQUEST FORM Number: 24190
Project Name: Incremental Growth Related Winter M	Project Cost: \$486,900 Iaintenance Vehicles New Asset/Expansion
Commission: <u>Community Services</u> Department: <u>Operations - Roads & Survey</u> Project Mgr: Alice Lam	Useful Life: 0 Pre Approval: Category: Annual
Ward(s): $_{CW} \checkmark 1 \square 2 \square 3 \square 4 \square$ $_{5} \square 6 \square 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: Recent awards Requirement Validation: Condition assessment ITS Involved Project: ITS Consulted?

Development Charge (DC) funding for additional growth-related winter maintenance vehicles purchased by contractors. If winter maintenance was done in-house, these vehicles would need to be purchased by the City, so this request is to obtain DC funding to offset a portion of the capital cost included in the winter maintenance paid through Operating accounts.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>
Cost/Quote:	486,948	0
Internal Charges:	0	0
External Consulting:	0	0
Contingency %: 0	0	0
Sub Total:	486,948	0
HST Impact:	0	0
Total Project Cost:	486,900	0

SOURCE(S) OF FUNDING	; (\$)		Compone	ents			E
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
DCA	486,900	0	0	0	0	0	0
TOTAL FUNDING	486,900					0	0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study:
		Amount Incl HST
		Year in the study
CA and/or Life Cycle: Explain if t	pere is a change in the year and/or cost	
	here is a change in the year and/or cost:	
DCA and/or Life Cycle: Explain if the DCA funding source should be Public		

2024 PROJECT FUNDI	NG REQUEST FORM Number:	24191
Project Name: Localized Repairs - Curb & Sidewalk	Project Cost:	\$1,411,700
	Repai	r/Replace
Commission: Community Services	Useful Life: 20	Pre Approval:
Department: Operations - Roads & Survey		rie rippiovai.
Project Mgr: Taylor Thomson	Category: Minor	
Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □	Cost Validation: Recent awards	
	Requirement Validation: Condition assessment	nt
5 6 7 8	•	
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box	

Maintenance repairs to sidewalks, curbs, and catch basins throughout the City as identified by staff. Ensure that deficient sections are repaired to minimize trip and fall incidents and reduce associated liability to the City. The purpose of the concrete curb is to channel storm water into the storm sewer system.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Total km of sidewalk citywide is 1,130km. Specific locations to l
Cost/Quote:	1,387,300	0	determined upon completion of condition assessment in spring
Internal Charges:	0	0	2024. Amount is consistent with the amount in the 2023 Life Cy
External Consulting:	0	0	Reserve Study Update.
Contingency %: 0	0	0	
Sub Total:	1,387,300	0	
HST Impact:	24,416	0	
Total Project Cost:	1,411,700	0	

SOURCE(S) OF FUNDING	(\$)		Compone	ents			F 4
<u>Funding Type</u>	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	1,411,700	0	0	0	0	0	0
TOTAL FUNDING	1,411,700				=	0	0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 1,411,700
		Amount Incl HST 1,411,700
		Year in the study 2024
DCA and/or Life Cycle: Explain if there is	a change in the year and/or cost.	

Project	Localized Repairs – Curb and Sidewalk
2024 Capital Request	\$1,411,700
Funding Source	Life Cycle Reserve
Description of Program	Maintenance repairs to sidewalks, curbs, mulit-use paths (MUP) and catch basins throughout the
	City as identified by staff through road patrol. Ensure that deficient sections are repaired to
	minimize trip and fall incidents, ponding/drainage issues, and reduce associated liability to the City.
	The purpose of conducting repairs to our concrete curbs are to removed damaged sections (hit by
	vehicles) and to ensure the channelization of storm water into the storm sewer system.
Project Rationale	Addresses minor repair locations of curb, sidewalk, MUP failures in order to reduce the City's
	liability, protect against claims of negligence and extend the Life Cycle. Identified in the Life Cycle
	Reserve Study.
Legislative Requirement	O. Reg. 239/02: Minimum Maintenance Standards for Municipal Highways outlines patrol and
	maintenance requirement related to roadway infrastructure inclusive of asphalt pavement and
	sidewalk.
History	n/a
Future Phases	This funding is requested each year.
Total Project Cost	n/a
Related Projects	Localized Repairs Concrete/Asphalt, Asphalt Resurfacing
Related Maps	n/a
Alignment to the Strategic Plan	Program ensures roads and boulevards are made safe for all cyclists, pedestrians and vehicular
	traffic. Program removes hazards, deficiencies, and reduces risk to the City by replacing with new
	concrete. This program promotes safety, reduces liability and encourages walkability within the
	community.

2024 PROJECT FUND	DING REQUEST FO	RM Numbe	er: 24192
Project Name: Localized Repairs - Interlock		Project Cost:	\$191,400
		Rej	pair/Replace
Commission: Community Services	Ţ	Jseful Life: 20	Pre Approval:
Department: <u>Operations - Roads & Survey</u> Project Mgr: Taylor Thomson	Category:		rio appiovai.
Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □	Cost Validation:	Recent awards	
5 6 7 8	Requirement Validation:		
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulted? \Box	
Maintenance renairs to hardscape features throughout the City as	identified by staff or required	l as a result of loca	alized asphalt and

Maintenance repairs to hardscape features throughout the City as identified by staff or required as a result of localized asphalt and concrete repairs.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Specific locations to be determined by condition as
Cost/Quote:	188,100	0	spring 2024 or following other construction works.
Internal Charges:	0	0	
External Consulting:	0	0	
Contingency %: 0	0	0	
Sub Total:	188,100	0	
HST Impact:	3,311	0	
Total Project Cost:	191,400	0	

SOURCE(S) OF FUNDING	(\$)		Compone	ents			Entuno
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	191,400	0	0	0	0	0	0
TOTAL FUNDING	191,400					0	0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 191,400
		Amount Incl HST 191,400
		Year in the study 2024
DCA and/or Life Cycle: Explain if there i	s a change in the year and/or cost:	

	Number:	24193
Pro	ject Cost:	\$110,100
	Repair	r/Replace
Useful l	life: 8	Pre Approval:
		i io rippio tuit
Cost Validation: Recei	nt awards	
equirement Validation: Cond	ition assessmer	ıt
S Involved Project: Is ITS Co	nsulted?	
	Useful I Category: Mino Cost Validation: Recei equirement Validation: Cond TS Involved Project: Is ITS Co	Project Cost: Repair Useful Life: 8 Category: Minor Cost Validation: Recent awards equirement Validation: Condition assessmen CS Involved Project: Is ITS Consulted?

Ongoing maintenance and repairs of municipal parking lots throughout the City. Includes repairs to concrete and asphalt infrastructure, maintenance holes and catchbasin adjustments and asphalt resurfacing.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Specific locations to be determined by condition assessmen
Cost/Quote:	108,200	0	spring 2024. There is no substantial backlog in this program
Internal Charges:	0	0	
External Consulting:	0	0	
Contingency %: 0	0	0	
Sub Total:	108,200	0	
HST Impact:	1,904	0	
Total Project Cost:	110,100	0	

SOURCE(S) OF FUNDING	(\$)		Compone	ents			Entuno
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	110,100	0	0	0	0	0	0
TOTAL FUNDING	110,100					0	0

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

DCA		Amount in	<u>Life Cycle</u>
Name	Year Amou	nt Study	Amount in Study: 110,100
			Amount Incl HST 110,100
			Year in the study 2024
DCA and/or Life Cycle: Explain if	f there is a change in the year and/or co	st:	
DCA and/or Life Cycle: Explain if	f there is a change in the year and/or co	st:	

2024 PROJECT FUND	ING REQUEST FORM Number	r: 24194
Project Name: Parking Lots- Rehabilitation	Project Cost:	\$150,600
	Rep	air/Replace
Commission: Community Services Department: Operations - Roads & Survey Project Mgr: Zoyeb Vahora	Useful Life: 20 Category: Minor	Pre Approval:
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Recent awards	
5 6 7 8	Requirement Validation: Condition assessment ITS Involved Project: Is ITS Consulted?	ent
DETAILED DESCRIPTION (SCOPE OF PROJECT):		of concrete interlo

Complete rehabilitation of selected municipal parking lots throughout the City. Includes removal and replacement of concrete, interlock and asphalt infrastructure, as well as maintenance holes and catch basin adjustments.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES	tion is Milne D	am There is no	backlog in the	program
Cost/Quote:	148,039	0		ng lots are in a		U	program.
Internal Charges:	0	0	Unit cost	is consistent wi	th recent award	l plus inflation.	
External Consulting:	0	0					
Contingency %: 0	0	0					
Sub Total:	148,039	0					
HST Impact:	2,605	0					
Total Project Cost:	150,600	0					
SOURCE(S) OF FUNDING	<u> (\$)</u>		Com	ponents			E4
Funding Type	<u>Budget</u>					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	150,600	0	0	0	0	0	0
TOTAL FUNDING	150,600					0	0
OPERATING BUDGET IN	MPACT Per	rsonnel Non Pe	rsonnel	Revenues	Expenditure	s/(Revenues)	

DCA/LIFE CYCLE DETAILS

DCA	Amount in	<u>Life Cycle</u>	
Name	Year Amount Study	Amount in Study:	390,500
		Amount Incl HST	150,600
		Year in the study	2024
DCA and/or Life Cycle: Explain if there is	s a change in the year and/or cost:		

\$0

\$0

\$0

\$0

2024 PROJECT FUNI	DING REQUEST FORM Number: 24195
Project Name: Retaining Wall Repair Program	Project Cost: \$78,700 Repair/Replace
Commission: Community Services Department: Operations - Roads & Survey Project Mgr: Taylor Thomson	Useful Life: 20 Pre Approval:
Project Mgr: Taylor Thomson Ward(s): $CW \checkmark 1 \Box 2 \Box 3 \Box 4 \Box$ $5 \Box 6 \Box 7 \Box 8 \Box$	Cost Validation: Recent awards Requirement Validation: Condition assessment
ETAILED DESCRIPTION (SCOPE OF PROJECT): epairs to failing retaining walls and other right of way structur	ITS Involved Project: Is ITS Consulted?

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Specific locations to be determined by condition assessment in
Cost/Quote:	77,300	0	spring 2024. The retaining walls are in a state of good repair.
Internal Charges:	0	0	Amount requested is consistent with the 2023 Life Cycle Reserve
External Consulting:	0	0	Study update.
Contingency %: 0	0	0	
Sub Total:	77,300	0	
HST Impact:	1,360	0	
Total Project Cost:	78,700	0	
	<u> (\$)</u>		Components Future

<u>Funding Type</u>	<u>Budget</u>					<u>FOTAL</u>	<u>Phases</u>
Operating Funded Life Cycle	78,700	0	0	0	0	0	0
TOTAL FUNDING	78,700					0	0

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

<u>DCA</u>	Amount in	Life Cycle
Name	Year Amount Study	Amount in Study: 78,700
		Amount Incl HST 78,700
DCA and/or Life Cycle: Explain if there	e is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain if there Request is less than LC due to condition	e is a change in the year and/or cost: n assessment and ability to make in house repairs.	Year in the study 2024

2024 PROJECT FUND	ING REQUEST FORM Number: 24196	
Project Name: Storm Water Retention Pond Maintenan	ree Program Project Cost: \$56,200 Repair/Replace	
Commission: Community Services Department: Operations - Roads & Survey Project Mgr: Taylor Thomson	Useful Life: 15 Pre Approval:	
Ward(s): $_{CW} \checkmark 1 \square 2 \square 3 \square 4 \square$ $_{5} \square 6 \square 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation:Recent awardsRequirement Validation:Condition assessmentITS Involved Project: Is ITS Consulted?	

Ongoing minor maintenance activities to all storm water management ponds throughout the City. The work includes repairing/replacing grates, headwalls and fences. This maintenance program will include localized repairs of identified deficiencies as reported by 2023 site inspection. Repair defective items identified from the 115 storm water management (SWM) ponds inspected in the fall of 2021.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES Items include repairs to baffle blocks, inlets, backflow preventer,
Cost/Quote:	55,200	0	outlets, pipes and retaining walls. This is an annual program. Ther
Internal Charges:	0	0	is no backlog in this program. Roads provide maintenance above
External Consulting:	0	0	the water line while Environmental Services provide rehabilitation below the water line.
Contingency %: 0	0	0	below the water line.
Sub Total:	55,200	0	
HST Impact:	972	0	
Total Project Cost:	56,200	0	

		Enturo				
Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
56,200	0	0	0	0	0	0
56,200					0	0
	Budget 56,200	Budget 56,200 0	Budget 56,200 0 0	Budget 56,200 0 0 0	Budget 56,200 0 0 0 0	Budget TOTAL 56,200 0 0 0 0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study:
		Amount Incl HST
		Year in the study
DCA and/or Life Cycle: Explain if Life cycle resides in Environmental	there is a change in the year and/or cost: I Services.	

2024 PROJECT FUNDI	NG REQUEST FO	RM	Number:	24197
Project Name: Survey Instrument Upgrade/Replacement		Project	-	\$47,800
Community Services Department: Operations - Roads & Survey	-	seful Life:		Pre Approval:
Project Mgr:Ben KhiraWard(s):CW \checkmark 1 \square 2 \square 3 \square 4 \square	Category: Cost Validation:	Recent av		
5 6 7 8 DETAILED DESCRIPTION (SCOPE OF PROJECT):	Requirement Validation: ITS Involved Project: Is I		_	it

Acquisition of GPS RTK (Real Time Kinematics) system leverages existing equipment inventory and will provide greater efficiencies by allowing single crew surveying and eliminate redundant stages in the data collection process. Primary survey equipment consists of the following items: Total Station - requires software upgrade; Data Collector - requires software upgrade; Optical/digital level - no repair necessary.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	<u>NOTES</u> Expenditures for equipment upgrade and or repair should be
Cost/Quote:	47,000	0	at a 5 year interval. Software included with RTK system will a
Internal Charges:	0	0	be compatible for upgrade of existing equipment without add software purchase. Amount requested is consistent with the 20
External Consulting:	0	0	Life Cycle Reserve Study update.
Contingency %: 0	0	0	Life Cycle Reserve Study update.
Sub Total:	47,000	0	
HST Impact:	827	0	
Total Project Cost:	47,800	0	

TOTAL	<u>Future</u> <u>Phases</u>
0	0
0	0
)) 0 0

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

DCA	Amount in	<u>Life Cycle</u>		
Name	Year Amount Study	Amount in Study:	47,800	
		Amount Incl HST	47,800	
		Year in the study	202	
OCA and/or Life Cycle: Explain if the	here is a change in the year and/or cost:			

2024 PROJECT FUNI	DING REQUEST FORM Number: 24	4198
Project Name: Survey Monument Replacement		,600
	Repair/Replac	e
Commission: Community Services	Useful Life: 60 Pre An	proval:
Department: Operations - Roads & Survey		provai:
Project Mgr: Ben Kihara	Category: Annual	
Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □	Cost Validation: Recent awards	
	Requirement Validation: Condition assessment	
5 6 7 8		
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box	

Program to replace damaged survey monuments to maintain integrity of City's survey control network and maintain the assets in a state of good repair. A well developed survey control network will help to achieve an efficient engineering design and construction program and also reduce layout time.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The survey monument replacement is an annual program to
Cost/Quote:	40,912	0	maintain the assets in state of good repair. Total approx. survey
Internal Charges:	0	0	monuments in the City is 2,645. Addition through subdivision assumption process approx. 35/year. Replacement plan-Approx. 28
External Consulting:	0	0	horizontal monument (avg. \$1787/unit) and 2 Benchmarks (avg.
Contingency %: 0	0	0	\$3000/unit). Unit costs are consistent with recent award plus
Sub Total:	40,912	0	inflation.
HST Impact:	720	0	
Total Project Cost:	41,600	0	

SOURCE(S) OF FUNDING	(\$)		Compone	ents			D 4
<u>Funding Type</u>	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	41,600	0	0	0	0	0	0
TOTAL FUNDING	41,600					0	0

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

DCA Name	Amount in Year Amount Study	Life CycleAmount in Study:41,600Amount Incl HST41,600Year in the study2024
DCA and/or Life Cycle: Explain if there i	s a change in the year and/or cost:	

Operations -Parks

MARKH	2024 PROJECT FUND	NG REQUEST FO	RM	Number:	24199
Project Name:	2022 Wind Storm Tree Replacement - Pl	hase 2	Proje	ct Cost:	\$142,900
-j				Repair	Replace
Commission:	Community Services	I	lseful Lif	e: 50	Pre Approval:
Department:	Operations - Parks	-		c. 50	The Apploval. —
Project Mgr:	Josh Van Kemp	Category:	Major		
Ward(s):	CW 🗹 1□ 2□ 3□ 4□	Cost Validation:	Recent a	awards	
W ur u(b).		Requirement Validation:	Conditio	on assessmen	ıt
DETAILED DE	ESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consu	ılted? 🗆	

The May 2022 windstorm event damaged hundreds of trees Citywide with particular emphasis on Markham Village, Unionville, and Thornhill. As a result of the strom 312 trees were damaged severely and require complete removal and stump grinding to prepare the sites for new tree planting. The trees and stumps are scheduled to be removed in 2023 (Phase 1) and will require tree planting in 2024 (Phase 2).

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES This is a recovery project and is separate from the regular capi
Cost/Quote:	140,400	0	tree replacement project. The average cost per tree during the
Internal Charges:	0	0	season is \$450.00 (before HST) to supply, plant & provide a 2-
External Consulting:	0	0	warranty. 312 tree replacements will be required to a meet a minimum 1:1 replacement ratio.
Contingency %: 0	0	0	
Sub Total:	140,400	0	
HST Impact:	2,471	0	
Total Project Cost:	142,900	0	

SOURCE(S) OF FUNDING (UNDING (\$) Components					E4	
Funding Type	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	142,900	0	0	0	0	0	0
TOTAL FUNDING	142,900					0	0

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

DCA		Amount in	Life Cycle	
Name	Year Amou	nt Study	Amount in Study:	143,400
			Amount Incl HST	142,900
			Year in the study	2024
DCA and/or Life Cycle: Explain if	inere is a change in the year and/or co	SL.		

2024 PROJECT FUNDING REQUEST FORM RKHAM Number: 24200 **Project Cost:** \$1,474,800 Project Name: AODA Playground Refurbishments - Year 2 of 4 Repair/Replace Commission: Community Services Pre Approval: Useful Life: 0 Department: Operations - Parks Category: Minor Project Mgr: Tanya Lewinberg Cost Validation: Recent awards Ward(s): CW ✓ 1 2 3 4 Requirement Validation: Condition assessment 5 6 7 8

DETAILED DESCRIPTION (SCOPE OF PROJECT):

Replacement of safety surfacing along with associated elements to make playgrounds fully accessible and AODA compliant. This 4 year project will address playgrounds currently with sand safety surfacing installed from 2015 and later and will run in parallel to the yearly capital life cycle replacement project for Playstructures & Rubberized Surface Replacement. There are 20 locations in the second year.

ITS Involved Project: Is ITS Consulted?

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This is a Citywide 4 year program with locations selected based on
Cost/Quote:	1,449,304	2,624,107	current accessibility by ward. There is currently a backlog of
Internal Charges: External Consulting: Contingency %: 0	0 0 0	0 0 0	playgrounds which require refurbishment to be fully AODA complaint by 2025. This project requires removal of sand surfacing and replacement with EWF (Engineered Wood Fibre), in addition to installing drainage, curbs, entrance ramps, and paved pathways
Sub Total: HST Impact: Total Project Cost:	1,449,304 25,508 1,474,800	2,624,107 46,184 2,670,300	to access the playground.

SOURCE(S) OF FUNDING (\$)

			Compon	enes			Entre
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Ramp Up	1,474,800	0	0	0	0	0	2,670,300
TOTAL FUNDING	1,474,800				=	0	2,670,300

Components

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

DCA/LIFE CYCLE DETAILS

DCA			Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	1,118,700
				Amount Incl HST	1,474,800
				Year in the study	2024
DCA and/or Life Cycle: Explain if there is a change	e in the year a	nd/or cost:			

Life Cycle only includes equipment removal and replacement and assumes that granite sand safety surfacing will be reused. Per the AODA compliance required safety surfacing will be changed to EWF along with associated elements for AODA compliance. External Consulting cost component is being accelerated and budget of \$112K was approved by Council in November 2023.

Project	AODA Playground Refurbishments
2024 Capital Request	\$1,474,800
Funding Source	Life Cycle Reserve
Description of Program	Replacement of safety surfacing along with associated elements to make playgrounds fully accessible and AODA compliant. This 4 year project will address playgrounds with sand safety surfacing from 2015 forward and will run in parallel to the yearly capital lifecycle replacement project for Playstructures & Rubberized Surface Replacement. There are 17 locations in the first year with a total of 19 playstructures being refurbished in the first year.
Project Rationale	Playground safety surfacing is required to meet AODA guidelines to meet the CSA guidelines (Z614-07 Children's Play spaces and Equipment).
Legislative Requirement	City playground safety surfacing is required to be CSA – Canadian Standards Association CAN/CSA-Z614-07 certified at the time of installation and throughout the useful life. Monthly inspections by certified playground inspectors combined with a yearly third party inspector ensure compliance
History	This project is reflective of AODA requirements for compliant playground surfacing by the end of 2025. Play structures are identified for inspection after 17 years of service with the total number of structures yearly being reflective of growth which occurred 17
Future Phases	\$2,670,300
Total Project Cost	\$5,195,000
Related Projects	n/a
Related Maps	n/a
Alignment to the Strategic Plan	The City provides safe use of outdoor recreation facilities for families which aligns with the guidelines established in the Integrated Leisure Master Plan.

2024 AODA Year 2 of 4

Park	Address	Curb based on 2023 bid	EWF 2023 pricing	Remove Sand based on 2023	Ramps 2023	Fences	Pathways \$150m2	Sod	Mobilization and	Tree protection -	Drainage based on similar pit	demolition and grading - based on	Testing	Project Cost
		results pricing		pricing \$19m2	pricing				Demobilization	2023 average	size from 2023 project	average from 2023		
John Baird Woods	145 Mingay Drive		\$14,053	\$15,000	\$3,600	\$2,000		\$1,500	\$2,000	\$6,000	\$35,200	\$4,388	\$4,000	87,741
Proctor Park (East/ West)	29 Proctor Avenue	\$19,404	\$15,396	\$10,716	\$1,800	\$2,000	\$1,500	\$1,500	\$2,000	\$6,000	\$16,500	\$4,388	\$3,500	84,704
Bayview Reservoir Park	8127 Bayview Avenue	\$10,472	\$9,549	\$6,688	\$1,800	\$2,000	\$15,000	\$1,500	\$2,000	\$5,000	\$25,630	\$4,388	\$3,500	87,527
Drake Park (East/ West)	7925 Bayview Avenue	\$16,940	\$15,533	6841.68	\$1,800	\$2,000		\$1,500	\$2,000	\$4,000	\$16,500	\$4,388	\$3,500	75,003
	265 Bayview Fairways													
Duncan Park	Drive	\$12,012	\$11,908	\$8,303	\$1,800	\$2,000	\$6,750	\$1,500	\$2,000	\$6,000	\$27,500	\$4,388	\$3,500	87,661
Lundy Park	7 Rockingham Court	\$2,310	\$2,180	\$1,520	\$1,800	\$2,000	\$750	\$1,500	\$2,000	\$3,000	\$9,900	\$4,388	\$3,500	34,848
	105 Simonston													
Paddock Park	Boulevard	\$13,090	\$12,044	\$8,398	\$1,800	\$2,000	\$11,200	\$1,500	\$2,000	\$4,000	\$27,500	\$4,388	\$3,500	91,420
Pioneer Park	11 Normark Drive	\$15,554	\$10,942	\$7,638	\$1,800	\$2,000	\$5,400	\$1,500	\$2,000	\$6,000	\$28,050	\$4,388	\$3,500	88,772
Romfield Park	155 Romfield Circuit	\$8,470	\$4,960	\$3,458	\$1,800	\$2,000	\$3,300	\$1,500	\$4,000	\$4,000	\$23,650	\$4,388	\$3,500	65,026
Glencrest Park	82 Ladyslipper Court		\$9,756	\$6,783	\$1,800	\$2,000		\$1,500	\$2,000	\$2,000	\$25,630	\$4,388	\$3,500	59,357
Johnsview Park (North)	27 Porterfield Cresent	\$8,470	\$5,750	\$4,028	\$1,800	\$2,000	\$1,800	\$1,500	\$2,000	\$4,000	\$19,690	\$4,388	\$3,500	58,926
Johnsview Park (South)	27 Porterfield Cresent	\$12,320	\$12,208	\$8,512	\$1,800	\$2,000	\$900	\$1,500	\$2,000	\$4,000	\$28,600	\$4,388	\$3,500	81,728
Pomona Mills Park	200 John Street	\$15,862	\$13,789	\$9,614	\$1,800	\$2,000	\$900	\$1,500	\$2,000	\$4,000	\$16,500	\$4,388	\$3,500	75,853
Bishops Cross Park	2400 John Street	\$20,000	\$14,306	\$9,975	\$1,800	\$2,000	\$600	\$1,500	\$2,000	\$4,000	\$15,400	\$4,388	\$3,500	79,469
	26 Coral Harbour													
Railside Park	Cresent	\$8,470	\$6,513	\$4,541	\$1,800	\$2,000	\$9,000	\$1,500	\$2,000	\$4,000	\$14,850	\$4,388	\$3,500	62,562
Rayneswood Park	4 Rayneswood Cresent	\$11,088	\$5,423	\$3,781	\$1,800	\$2,000	\$4,050	\$1,500	\$2,000	\$6,000	\$14,850	\$4,388	\$3,500	60,380
	110 Royal Orchard													
Royal Orchard Park	Boulevard	\$8,778	\$5,341	\$3,724	\$1,800	\$2,000	\$6,150	\$1,500	\$2,000	\$4,000	\$14,850	\$4,388	\$4,500	59,031
Franklin Carmichael Park	277 Green Lane	\$14,784	\$9,756	\$6,802	\$1,800	\$2,000	\$600	\$1,500	\$2,000	\$6,000	\$25,630	\$4,388	\$4,500	79,760
Green Lane Park (North)	16 Thorne Lane	\$8,624	\$4,796	\$3,344	\$1,800	\$2,000	\$600	\$1,500	\$2,000	\$5,000	\$16,830	\$4,388	\$4,500	55,382
Green Lane Park (South)	16 Thorne Lane	\$10,472	\$9,728	\$6,783	\$1,800	\$2,000	\$600	\$1,500	\$2,000	\$5,000	\$25,630	\$4,388	\$4,253	74,154
		217120	\$193,931	\$136,450	\$37,800	\$40,000	\$69,100	\$30,000	\$42,000	\$92,000	\$428,890	\$87,760	\$74,253	1,449,304
												HST Impact		25,508
												Total Project Cost		1,474,811
		-										Rounded Off Project (Cost	1,474,800
		1							1		1			

\$1,559,599
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
\$1,110,692
\$2,670,291

MARKH	AM 2024 PROJECT FUND	NG REQUEST FOR	RM N	umber:	24201
Project Name: 1	Soulevard/Park Trees Replacement		Project	Cost:	\$893,100
	Sourcearear and Trees Replacement			Repair	/Replace
Commission: (Community Services	Us	seful Life:	50	Pre Approval: 🗹
Department: <u>(</u>	Operations - Parks				
Project Mgr: J	osh Van Kemp	Category:	Annual		
Ward(s): C	w 🗹 1 🗆 2 🗔 3 🗆 4 🗖	Cost Validation:	Recent awa	ards	
(-),- C	5 6 7 8	Requirement Validation:	Condition	assessmen	ıt
DETAILED DES	SCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is IT	'S Consulte	ed?	

Boulevard/Park Tree Replacement planting is an annual program which enables the City to replace approx. 1150 dead, diseased or damaged trees. Average cost per tree during the 2023 season is \$450.00 (pre-tax) to supply, plant & provide a 2-year warranty. The average cost per stump removal for the 2023 season is \$82.00 (pre-tax). Tree watering is bi-weekly, for 10-weeks with a 1-time Fall fertilization. Industry pricing from other municipalities ranges from \$4.00-\$6.00 per watering. 23,000 waterings will be required yearly.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This is an annual program & funds will be requested each
Cost/Quote:	760,150	0	Planting 1,150 trees per year maintains a 1:1 ratio of
Internal Charges:	119,609	0	replacement. Three 150-day Forestry Data Collector staff p year for accurate planning & quality control. Tree watering
External Consulting:	0	0	currently at the discretion of the planting contractor. To en
Contingency %: 0	0	0	trees are wateredappropriately, a unit based rate will be use
Sub Total:	879,759	0	water each tree during Year 1 & 2 of the warranty period.
HST Impact:	13,379	0	will be completed on a 2-week rotation for 10-weeks.
Total Project Cost:	893,100	0	

				<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
0	0	0	0	0	0
				0	0
	0	0 0	0 0 0	0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0

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

DCA	Amount in		<u>Life Cycle</u>		
Name	Year	Amount	Study	Amount in Study:	773,100
				Amount Incl HST	895,200
				Year in the study	2024
DCA and/or Life Cycle: Explain if there is a cha Request is higher than Life Cycle because pricing task to address tree mortality concerns.	•••		t tenders and tro	ee watering has been add	ed as a new

Project	Boulevard/Park Tree Replacement
2024 Capital Request	\$893,100
Funding Source	Life Cycle Reserve
Description of Program	Boulevard/Park replacement tree planting is an annual program to replace dead, diseased or damaged trees with mortality averaging 1150 trees. Cost per tree is approximately \$450 to plant with 2 year warranty and \$82 to grind the stump in preparation for planting. Tree watering is bi-weekly for 10 weeks and range from \$4-\$6 per watering. This funding will be requested yearly to address the previous year tree loss and add replacement canopy working to our goal of 30%.
Project Rationale	The City has a 30% canopy goal and any trees removed require replacement to replace lost canopy and the benefits that trees provide to the community.
Legislative Requirement	While there is no legislative requirement to replace trees Council has approved a target canopy goal.
History	The urban forest grows every year as does the number of trees yearly which require replacement due to normal mortality, wind storm damage, accidents or pest related issues.
Future Phases	Yearly
Total Project Cost	This is an annual project and will be adjusted as required to keep pace with mortality
Related Projects	Trees for Tomorrow
Related Maps	n/a
Alignment to the Strategic Plan	A healthy urban forest is vital to providing a safe and sustainable community

ING REQUEST FO	RM Nur	nber:	24202
nce in Parks	Project Co	st:	\$27,400
		Repair/	Replace
U	seful Life:	30 1	Pre Approval:
Category:	Annual		
Cost Validation:	Recent award	S	
Requirement Validation:	Condition ass	essment	
		_	
	nce in Parks U Category: Cost Validation: Requirement Validation:	Project Constraints Useful Life: 3 Category: Annual Cost Validation: Recent award Requirement Validation: Condition ass	Number: Number: nce in Parks Project Cost:

Annual preventative maintenance of parks and open space bridges. Locations to be determined based on Spring 2024 condition assessment. Work includes fill and grade bridge approaches, remove and replace wooden decks on pedestrian bridges, railings and curbs.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This is an annual program and funds will be requested each year.
Cost/Quote:	26,900	0	There is no backlog and bridge structures are in a state of good
Internal Charges:	0	0	repair. Operations is responsible for preventive minor maintenance
External Consulting:	0	0	on bridges/culverts such as minor grading, patching, sealing of bridge approaches and bridge decks, and siltation removal from
Contingency %: 0	0	0	culverts, while Environmental Services is responsible for its
Sub Total:	26,900	0	inspection/rehabilitation and replacement.
HST Impact:	473	0	
Total Project Cost:	27,400	0	

<u>\$)</u>		Compone	ents			F 4
Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
27,400	0	0	0	0	0	0
27,400				=	0	0
	Budget 27,400	Budget 27,400 0	Budget 27,400 0 0	Budget 27,400 0 0 0	Budget 27,400 0 0 0 0	Budget TOTAL 27,400 0 0 0 0 0

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

DCA		Amount in	Life Cycle	
Name	Year Amo	unt Study	Amount in Study:	
			Amount Incl HST	
			Year in the study	2024
DCA and/or Life Cycle: Explain if there is a cha Life cycle resides in Environmental Services (\$5			for Parks.	

2024 PROJECT FUNI	DING REQUEST FORM Number: 24203
Project Name: City Park Furniture / Amenities	Project Cost: \$185,700
	Repair/Replace
Commission: Community Services	Useful Life: 10 Pre Approval:
Department: Operations - Parks	
Project Mgr: Matthew Busato	Category: Annual
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Recent awards
	Requirement Validation: Condition assessment
5 6 7 8	·
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?

358

This is an annual replacement program to provide for the refurbishment or replacement of City furniture in parks and Civic property such as benches, picnic tables and umbrellas, waste receptacles, bike racks, banner arms, self-watering planters and hanging baskets. Project also includes refurbishment or replacement of existing seasonal waste containers, tree grates and bollards/p gates.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES This is an annual program and funds will be requested each
Cost/Quote:	182,492	0	There is no substantial backlog and assets are in a state of
Internal Charges:	0	0	repair. Amount requested is consistent with the 2023 Life (
External Consulting:	0	0	Reserve Study. Replacements are based on annual conditio
Contingency %: 0	0	0	assessments at all City parks, trails, greenspace and facilitie Includes benches, waste receptacles/recycling and concrete
Sub Total:	182,492	0	both, bike racks, planters and hanging baskets, P Gates, pic
HST Impact:	3,212	0	frames and wood/hardware, banner arms, parks information
Total Project Cost:	185,700	0	and plaques, seasonal decoration (LED trees).

SOURCE(S) OF FUNDING (<u>(\$)</u>		Compone	ents			E
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	185,700	0	0	0	0	0	0
TOTAL FUNDING	185,700					0	0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 185,700
		Amount Incl HST 185,700
		Year in the study 2024

Project Name: Court Resurfacing/Reconstruction - Bayview Reserved Commission: Community Services Department: Operations - Parks	Repair/Replace
Project Mgr: Tanya Lewinburg	Useful Life: 7 Pre Approva Category: Minor
Ward(s): $CW \square 1 \checkmark 2 \square 3 \square 4 \square$ Constrained $5 \square 6 \square 7 \square 8 \square$ Requirement	ent Validation: Recent awards ent Validation: Condition assessment red Project: Is ITS Consulted?

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES The existing three tennis courts at Bayview Reservoir will be
Cost/Quote:	174,332	0	rebuilt and the surfacing will be reconfigured to allow for two
Internal Charges:	0	0	tennis courts and 4 Pickle Ball courts complete with additional
External Consulting:	0	0	fencing to separate the two discisplines. This project is being accelerated from 2027.
Contingency %: 0	0	0	accelerated from 2027.
Sub Total:	174,332	0	
HST Impact:	3,068	0	
Total Project Cost:	177,400	0	

SOURCE(S) OF FUNDING	Components				Fastan		
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	177,400	0	0	0	0	0	0
TOTAL FUNDING	177,400					0	0

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

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

			Project Cost:	\$960,000
	Court Resurfacing/Reconstruction/Mai	ntenance	Repair	r/Replace
Department:	Community Services Operations - Parks	Category:	Jseful Life: 7 Annual	Pre Approval:
	Tanya Lewinberg $\square 2 \square 3 \square 4 \square$	Cost Validation:		
	$5 \square 6 \square 7 \square 8 \square$ SCRIPTION (SCOPE OF PROJECT):	Requirement Validation: ITS Involved Project: Is I		nt

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The total cost of resurfacing/rebuilding courts at tennis clubs is
Cost/Quote:	943,411	0	shared 50:50 between the tennis club and the City. Tennis club
Internal Charges:	0	0	court replacement/rehabilitation will proceed subject to satisfactory club finance review and agreement of the club to undertake
External Consulting:	0	0	6
Contingency %: 0	0	0	repayment. This is an asset based program and is subject to condition assessment. The City contributes to the annual
Sub Total:	943,411	0	maintenance of the clay courts at Unionville Tennis Club to a
HST Impact:	16,604	0	maximum of \$3k per court (total of \$9k per year for 3 clay courts).
Total Project Cost:	960,000	0	

SOURCE(S) OF FUNDING (OF FUNDING (\$) Components					Ef	
<u>Funding Type</u>	<u>Budget</u>	Tennis Court	Basketball Court	<u>Clay</u>	Consu	lting TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	691,000	536,900	145,100	9,000	0	691,000	0
Other External	269,000	269,000	0	0	0	269,000	0
TOTAL FUNDING	960,000				-	960,000	0

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

T		Amount in	<u>Life Cycle</u>		
Year	Amount	Study	Amount in Study:	693,000	
			Amount Incl HST	691,000	
			Year in the study	2024	
	Year	Year Amount	Year Amount Study	Amount in Study: Amount Incl HST	
Project	Court Resurfacing/Reconstruction/Maintenance				
---------------------------------	---				
2024 Capital Request	\$960,000				
Funding Source	Life Cycle Reserve				
Description of Program	Rebuilding or resurfacing of basketball, public and club tennis courts based on condition assessment.				
Project Rationale	These structures require replacement prior to any failures occurring, based on condition				
	assessment to meet the CSA guidelines (Z614-07 Children's Play spaces and Equipment).				
Legislative Requirement	n/a				
	This project is reflective of court surfacing identified in the parks lifecycle and supported by				
	condition assessment. Court surfaces are identified for inspection after 7 years of service				
	with the total number of structures yearly being reflective of growth which occurred in a				
History	given year				
Future Phases	This funding is requested each year based on lifecycle.				
Total Project Cost	n/a				
Related Projects	n/a				
Related Maps	n/a				
Alignment to the Strategic Plan	The City provides safe use of outdoor recreation facilities for families which aligns with the				
	guidelines established in the Integrated Leisure Master Plan.				

2024 Court Reconstruction and Resurfacing

Inventory Description	Facility	Rebuild or Resurface	2023 Inflated - Pre- Tax Markham Share	Club Share Pre-Tax	Total Project Cost Pre-Tax	Total Project Cost Inc. HST Impact	Comment
Court Surfacing - Tennis/ Basketball	Armadale Park - Basketball #1 (half) - Resurface	Resurface	13,225		13,225	13,458	
Court Surfacing - Tennis/ Basketball	Ashton Meadows - Basketball #1 - Resurface	Resurface	37,395		37,395	38,053	
Court Surfacing - Tennis/ Basketball	Schoolhouse Basketball #1 (Half) - Resurface	Resurface	7,851		7,851	7,989	
Court Surfacing - Tennis/ Basketball	Carlton Park - Tennis #1 - Resurface	Resurface	10,300	10,300	20,600	20,962	Pending club consultation and financials
Court Surfacing - Tennis/ Basketball	Carlton Park - Tennis #2 - Resurface	Resurface	10,300	10,300	20,600	20,962	Pending club consultation and financials
Court Surfacing - Tennis/ Basketball	Carlton Park - Tennis #3 - Resurface	Resurface	10,300	10,300	20,600	20,962	Pending club consultation and financials
Court Surfacing - Tennis/ Basketball	Carlton Park - Tennis #4 - Resurface	Resurface	10,300	10,300	20,600	20,962	Pending club consultation and financials
Court Surfacing - Tennis/ Basketball	Carlton Park - Tennis #6 (Clay)		3,000		3,000	3,000	Not subject to HST
Court Surfacing - Tennis/ Basketball	Carlton Park - Tennis #5 (Clay)		3,000		3,000	3,000	Not subject to HST
Court Surfacing - Tennis/ Basketball	Carlton Park - Tennis #7 (Clay)		3,000		3,000	3,000	Not subject to HST
Court Surfacing - Tennis/ Basketball	Laura and Alf Weaver Park - Tennis #1 (Resurface)	Resurface	20,600		20,600	20,962	
Court Surfacing - Tennis/ Basketball	Laura and Alf Weaver Park - Tennis #2 (Resurface)	Resurface	20,600		20,600	20,962	
Court Surfacing - Tennis/ Basketball	Milliken Mills Park - Basketball #1 (half) N - Rebuild	Rebuild	32,182		32,182	32,748	
Court Surfacing - Tennis/ Basketball	Pomona Valley - Tennis #1 - Resurface	Resurface	10,300	10,300	20,600	20,962	Pending club consultation and financials
Court Surfacing - Tennis/ Basketball	Pomona Valley - Tennis #2 - Resurface	Resurface	10,300	10,300	20,600	20,962	Pending club consultation and financials
Court Surfacing - Tennis/ Basketball	Pomona Valley - Tennis #3 - Resurface	Resurface	10,300	10,300	20,600	20,962	Pending club consultation and financials
Court Surfacing - Tennis/ Basketball	Pomona Valley - Tennis #4 - Resurface	Resurface	10,300	10,300	20,600	20,962	Pending club consultation and financials
Court Surfacing - Tennis/ Basketball	Pomona Valley - Tennis #5 - Resurface	Resurface	10,300	10,300	20,600	20,962	Pending club consultation and financials
Court Surfacing - Tennis/ Basketball	Pomona Valley - Tennis #6 - Resurface	Resurface	10,300	10,300	20,600	20,962	Pending club consultation and financials
Court Surfacing - Tennis/ Basketball	Ray Street Park -#1 Basketball - Resurface	Resurface	5,722		5,722	5,823	
Court Surfacing - Tennis/ Basketball	Robinson - Tennis #1 - Rebuild	Rebuild	74,389		74,389	75,698	
Court Surfacing - Tennis/ Basketball	Robinson - Tennis #2 - Rebuild	Rebuild	74,389		74,389	75,698	
Court Surfacing - Tennis/ Basketball	Ada Mackenzie - Basketball #1 (full) - Resurface	Resurface	46,240		46,240	47,054	
Court Surfacing - Tennis/ Basketball	Ada Mackenzie - Tennis #1 - Resurface	Resurface	36,622		36,622	37,267	
Court Surfacing - Tennis/ Basketball	Ada Mackenzie - Tennis #2 - Resurface	Resurface	36,622		36,622	37,267	
Court Surfacing - Tennis/ Basketball	Simonston - Tennis #1 - Rebuild	Rebuild	40,342	40,342	80,683	82,103	Pending club consultation and financials
Court Surfacing - Tennis/ Basketball	Simonston - Tennis #2 - Rebuild	Rebuild	40,342	40,342	80,683	82,103	Pending club consultation and financials
Court Surfacing - Tennis/ Basketball	Simonston - Tennis #3 - Rebuild	Rebuild	40,342	40,342	80,683	82,103	Pending club consultation and financials
Court Surfacing - Tennis/ Basketball	Simonston - Tennis #4 - Rebuild	Rebuild	40,342	40,342	80,683	82,103	Pending club consultation and financials
	TOTAL		679,201	264,366	943,567	960,015	
	EXTERNAL CONSULTANT (Rebuild- Simonston and Robinson Tennis Courts, Milliken Mills Basketball Cou	urts)			30,221	30,753	
	2023 In Year for Consulting		1	1		(30,800)	
	TOTAL PROJECT COST					959,969	
	TOTAL PROJECT COST (ROUNDED OFF)					960,000	

Summary:

Funding (Inc. HST Impact)	Details	Tennis Courts	Basketball Court	Clay Court	Consulting	Total
Lifecyle	Resurface/Rebuild - Public Tennis Courts - Laura and Alf Weaver, Robinson and Ada Mackenzie	267,900				267,900
Lifecycle	Resurface/Rebuild - Basketball Courts -Armadale, Ashton Meadows, Schoolhouse, Milliken Mills, Ray Street and Ada Mackenzie		145,100			145,100
Lifecycle	Clay Court - Unionville TC			9,000		9,000
Lifecycle	External Consulting				30,800	30,800
Lifecycle	Resurface/Rebuild - TC-Carlton, Pomona, Unionville	269,000				269,000
External - Club	Resurface/Rebuild - TC-Carlton, Pomona, Unionville	269,000				269,000
2023 In year for consulting						(30,800)
		805,900	145,100	9,000	30,800	960,000
	TOTAL PROJECT COST					960,000

Cost	943,443
External Consulting	30,221
Total Project Cost - Pre-Tax	973,664
HST Impact	17,136
2023 In year for consulting	(30,800)
Total Project Cost	
Inc. HST Impact	960,000
TOTAL PROJECT COST (ROUNDED OFF)	960,000

2024 PROJECT FUND	ING REQUEST FORM	M Number:	24206
Project Name: Exercise Equipment and Rubberized Saf		Project Cost:	\$78,000
		Repai	r/Replace
Commission: Community Services	Usef	ul Life: 9	Pre Approval: \Box
Department: Operations - Parks			rie rippio (ull
Project Mgr: Tanya Lewinburg	Category: M	inor	
	Cost Validation: Re	ecent awards	
	Requirement Validation: Co	ondition assessme	nt
5 🗌 6 🗌 7 🗌 8 🗌			
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS	Consulted? \Box	

Adult exercise equipment addresses a need for outdoor movement and exercise for residents over the age of 16 years and comes in many varieities of form and function. With use in some locations similar to play structures outdoor exercise equipment is inspected monthly and audited yearly with condition assessments being performed close to the useful life of 17 years to determine replacement.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This is an asset based program subject to condition assessment o
Cost/Quote:	76,690	0	the individual asset close to the useful life. This equipment at
Internal Charges:	0	0	Henry White Park was installed in 2015 and will be replaced alon with the playground equipment and the related rubberized safety
External Consulting:	0	0	surfacing.
Contingency %: 0	0	0	surracing.
Sub Total:	76,690	0	
HST Impact:	1,350	0	
Total Project Cost:	78,000	0	

SOURCE(S) OF FUNDING (\$)		Components							
Funding Type	Budget	Equipment	Rubberized Surface			TOTAL	<u>Future</u> <u>Phases</u>		
Operating Funded Life Cycle	78,000	25,400	52,600	0	0	78,000	0		
TOTAL FUNDING	78,000				=	78,000	0		

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

<u>DCA</u> Name		unt in <u>Life Cycle</u> udy
		Amount in Study: 82,200
		Amount Incl HST 78,000
		Year in the study 2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024

-		Project C	Cost:	\$80,200
roject Name: Fence (Backstop and Outfield) Replacen	nent	Ū	-	/Replace
Community Services Department: Operations - Parks Project Mgr: James Bingham	U Category: Cost Validation:		35	Pre Approval:
Ward(s): $_{CW}$ \square $1 \lor 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$ TAILED DESCRIPTION (SCOPE OF PROJECT):	Requirement Validation: ITS Involved Project: Is I	Condition as	ssessmen	t

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES 2024 location: Duncan Park - Major #1 This is the first time
Cost/Quote:	78,831	0	assets are being replaced since original construction. Unit co
Internal Charges:	0	0	based on original cost of construction plus inflation. This is a
External Consulting:	0	0	annual program and funding will be requested each year for
Contingency %: 0	0	0	baseball and softball fields' city wide. Project cost vary depe on the number of locations. There is no substantial backlog a
Sub Total:	78,831	0	assets are in a state of good repair. Funds may be reallocated
HST Impact:	1,387	0	the project components. Unit cost is consistent with recent av plus inflation.
Total Project Cost:	80,200	0	

SOURCE(S) OF FUNDING (<u>\$)</u>	Components					F 4
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	80,200	0	0	0	0	0	0
TOTAL FUNDING	80,200					0	0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 80,200
		Amount Incl HST 80,200
		Year in the study 2024

MARKHAM 2024 PROJECT FUND	DING REQUEST FORM Number:	24208
Project Name: Fence (Tennis Courts)	Project Cost:	\$96,300
Commission: Community Services		Replace
Department: <u>Operations - Parks</u> Project Mgr: Tanya Lewinberg	Useful Life: 35 Category: Minor	Pre Approval: 🗆
Ward(s): $CW \square 1 \blacksquare 2 \square 3 \square 4 \square$	Cost Validation: Internal peer review Requirement Validation: Condition assessment	ł
5 6 7 8 DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?	·

Replacement of perimeter fencing of tennis courts helps to protect the playing surfaces from non-court uses while maintaining the limits of play and allowing securement of the courts when not available for users.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES This is an asset based program and is subject to condition
Cost/Quote:	94,668	0	assessment. The 2024 locations are Simonston Tennis Cou
Internal Charges:	0	0	Unit costs are based on original cost of construction plus in
External Consulting:	0	0	There is no substantial backlog and the fences are in a state
Contingency %: 0	0	0	repair
Sub Total:	94,668	0	
HST Impact:	1,666	0	
Total Project Cost:	96,300	0	

SOURCE(S) OF FUNDING (<u>\$)</u>		Compone	ents			F 4
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	96,300	0	0	0	0	0	0
TOTAL FUNDING	96,300					0	0

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

DCA	Amount	<u> </u>
Name	Year Amount Study	Amount in Study: 102,500
		Amount Incl HST 96,300
		Year in the study 2024

2024 PROJECT FUNDING REQUEST F	FORM	Number:	24209
Project Name: Floodlights, Poles & Cross Arms Replacement	Proj	ject Cost:	\$789,800
		Repair	r/Replace
Commission: Community Services	Useful L	ife: 30	Pre Approval:
Department: Operations - Parks			rie rippiovai.
Project Mgr: James Bingham Categor	ry: Minor		
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$ Cost Validation	on: Recent	t awards	
Requirement Validation	on: Condit	tion assessmer	nt
DETAILED DESCRIPTION (SCOPE OF PROJECT): ITS Involved Project:	Is ITS Con	sulted?	

LED Floodlights, poles and cross arms at parks due for replacement based on condition assessment and to avoid untimely outages. This project includes the repair, removal and disposal of existing poles and floodlights, and supply and installation of new poles, cross arms and floodlights. Locations for 2024 are Ashton Meadows Baseball, Bayview Resevoir Softball and Bishops Cross Soccer.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES This is an asset based lifecycle program and funding will be
Cost/Quote:	754,108	0	requested each year. All of the Markham sports fields constru
Internal Charges:	0	0	or retrofitted since 1982 have been equipped with controlled-
External Consulting:	22,000	0	sports floodlights that are designed to control the direct
Contingency %: 0	0	0	illumination and to reduce the dark sky illumination. Project v completed during 2023/2024 winter season. This project will
Sub Total:	776,108	0	upgraded to LED lights generating annual savings of \$3K. Th
HST Impact:	13,660	0	no substantial backlog and assets are in a state of good repair.
Total Project Cost:	789,800	0	

SOURCE(S) OF FUNDING	(\$)		Compon	ents			Futuro
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	789,800	0	0	0	0	0	0
TOTAL FUNDING	789,800					0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	-\$3,000	\$0	-\$3,000	

ount Study	- Amount in Study: 952,20 Amount Incl HST 789,80
	Veen in the study 200
	Year in the study 202
	e Tennis Bubble project managed by
	cost: pleted as part of th

Project	Floodlight Poles and Cross Arms Replacement
2024 Capital Request	\$789,800
Funding Source	Life Cycle Reserve
Description of Program	Replacement of Floodlights and Poles, per condition assessment and consultant review, to meet lighting requirements for safe play.
Project Rationale	These sport field lighting systems are required to meet lighting levels for safe play , any failures could result in user injury and hinder playing performance.
Legislative Requirement	City play structures are required to be CSA – Canadian Standards Association CAN/CSA-Z614-07 certified at the time of installation and throughout their useful life. Annual inspections by certified playground inspectors combined with a yearly third party safety audit ensures compliance.
lliston	This project is reflective of Floodlights and Poles identified in the parks lifecycle and supported by condition assessment. Flood lights and poles are listed on a 30 year lifecycle. Annual audits are completed and revised by city consultant for
History Future Phases	review. This funding is requested each year based on lifecycle.
Total Project Cost	n/a
Related Projects	Re-lamping. Metal halide fixtures have there lenses cleaned, fixtures repaired and bulbs changed every 5 years
Related Maps	n/a
Alignment to the Strategic Plan	The City provides safe use of outdoor illuminated athletic Fields, facilities for users which aligns with the guidelines established in the Integrated Leisure Master Plan.

2024 Floodlights, Poles & Cross Arms Replacement

Facility	Cost
Ashton Meadow Park - Baseball	328,489
Bayview Reservoir - Softball	211,182
Bishops Cross - Soccer	214,437
Total	754,108
Consultant	22,000
TOTAL PRE-TAX	776,108
HST IMPACT	13,660
TOTAL PROJECT COST	789,768
TOTAL PROJECT COST (ROUNDED OFF)	789,800

MARKHAM 2024 PROJECT FUNI	Number: 242	10
	Project Cost: \$8,90)0
Project Name: Goal Posts Replacement- Pomona Mills	Park Repair/Replace	
Commission: <u>Community Services</u> Department: <u>Operations - Parks</u>	Useful Life: 30 Pre Appr	oval:
Project Mgr: James Bingham	Category: Annual	
Ward(s): $CW \square 1 \checkmark 2 \square 3 \square 4 \square$	Cost Validation: Recent awards	
5 6 7 8	Requirement Validation: Condition assessment	
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? 🗀	

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Life cycle Program. \$4.35K per pair per location. This is an
Cost/Quote:	8,700	0	program and funding will be requested each year. The replace
Internal Charges:	0	0	are to ensure safety compliance.
External Consulting:	0	0	Unit prices consistent with recent award plus inflation.
Contingency %: 0	0	0	
Sub Total:	8,700	0	
HST Impact:	153	0	
Total Project Cost:	8,900	0	

SOURCE(S) OF FUNDING (<u>\$)</u>		Compone	ents			Entuno
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	8,900	0	0	0	0	0	0
TOTAL FUNDING	8,900					0	0

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

Year in the study 2024
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

2024 PROJECT FUNDING REQUEST FORM

MARKHAM	2024 PROJ	ECT FUN	DING RI	EQUEST FO	<i>RM</i> Number:	24	211
Project Name: Horitago	Wasta Dagantas	log			Project Cost:	\$53 ,	,800
Project Name: Heritage	-	les			Repair	/Replac	e
Commission: <u>Community</u>				τ	Jseful Life: 12	Pre Ap	proval: 🗆
Department: <u>Operations</u>				Category:	Annual	1	1
Project Mgr: Matt Busate					Third party estimate		
	2 2 3 2 4 2		Requir		Other(specify in Not		
	6 7 8		-	volved Project: Is I		,	
DETAILED DESCRIPTIO						.1	
Site furnishings within the ap receptacles within the greate been a combination of steel a will be sourced in Canada w	r parks network. F and aluminum con	revious approv struction leadir	ved receptacles	s have been purcha	sed from a USA supp	lier and	have
BUILDING MARKHAM'	S FUTURE TOG	ETHER: Sa	afe & Sustainab	le Community			
PROJECT COSTS (\$)	<u>2024</u>	Future Phas	ses NOTI		a and mlagad at logatic	na with	in the
Cost/Quote:	52,890	(es are placed at location ity to maintain the loo		
Internal Charges:	0	0			he first receptacles pu	ırchased	and are at
External Consulting:	0	0) the poi	nt where they requ	ire replacement.		
Contingency %: 0	0	(0				
Sub Total:	52,890	0)				
HST Impact:	931	0)				
Total Project Cost: =	53,800	0)				
SOURCE(S) OF FUNDING (\$)			С	omponents			Future
Funding Type	<u>Budget</u>				<u>T(</u>	DTAL	Phases
Derating Funded Life Cycle	53,800	0		0 0	0	0	(
TOTAL FUNDING	53,800					0	(
OPERATING BUDGET IN	Pe	rsonnel No	on Personnel	Revenues	Expenditures/(Rev	enues)	
<u>OPERATING BUDGET I</u>	<u>MPACI</u>	\$0	\$0	\$0	\$0		
CA/LIFE CYCLE DETA	ILS						
DCA			T 7	Amount in	<u>Life Cycle</u>		
Name			Year Amo	ount Study	 Amount in Stud 	dy:	53,800
					Amount Incl H	ST	53,800
					Year in the stu	ıdy	2024
	F 1 · · · · · · ·					J	
DCA and/or Life Cycle:	Explain if there is	a change in th	e year and/or	cost:			

2024 PROJECT FUND	ING REQUEST FO	RM Number:	24212
Project Name: Irrigation Refurbishment or Replacemen	t	Project Cost:	\$34,200
		Repair	Replace
Commission: Community Services	Ţ	Jseful Life: 40	Pre Approval:
Department: <u>Operations - Parks</u> Project Mgr: James Bingham	Category:		i i o i ippi o tuit
Ward(s): CW \checkmark 1 \square 2 \square 3 \square 4 \square	Cost Validation:	Recent awards	
5 G 7 8	Requirement Validation:	Condition assessmen	ıt
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulted?	
Irrigation systems requiring replacement and or repairs to maintai	n athletic fields while commi	tting to water conserv	ation through sma

Irrigation systems requiring replacement and or repairs to maintain athletic fields while committing to water conservation through sma monitoring controllers.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Aging irrigation systems require replacement of components,
Cost/Quote:	33,622	0	heads, nozzels, valves, solinoids, flow valves and conversion of
Internal Charges:	0	0	existing timers to hydrawise smart contollers. Aging systems a void any water conservation by operating inadequately. 2024
External Consulting:	0	0	Locations include The Heintzman House, Highgate Park socce
Contingency %: 0	0	0	Monarch Park soccer, Mount Joy soccer.
Sub Total:	33,622	0	
HST Impact:	592	0	
Total Project Cost:	34,200	0	

SOURCE(S) OF FUNDING (<u>(\$)</u>		Compon	ents			F 4
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	34,200	0	0	0	0	0	0
TOTAL FUNDING	34,200					0	0

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

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:	<u>DCA</u> Name	Amount in Year Amount Study	Life CycleAmount in Study:34,200Amount Incl HST34,200Year in the study2024
			2024

2024 Irrigation Refurbishment

Facility	Cost
The Heintzman House - Rehab	8,964
Highgate Park - Soccer - Rehab	8,661
Monarch Park -Soccer - Rehab	3,839
Mount Joy Park - Soccer - Rehab	12,157
Total	33,622
НЅТ ІМРАСТ	592
TOTAL PROJECT COST	34,213
TOTAL PROJECT COST (ROUNDED OFF)	34,200

2024 PROJECT FUNDING REQUEST FORM

MARKHAM	2024 PROJ	ECT FUNDI	NG REQ	UEST FOR	M Number:	24213	
Project Name: Markhan	n Trees for Tom	orrow			Project Cost:	\$125,300	
					New A	sset/Expansion	1
Commission: <u>Community</u>				Use	ful Life: 50	Pre Approval:	✓
Department: <u>Operations</u> Project Mgr: Matt Busat				Category: A	nnual		
, <u> </u>	2 3 4		Со	st Validation: In	nternal peer review		
			Requirement	nt Validation: C	ondition assessmen	ıt	
DETAILED DESCRIPTIO		ΡΟΙΕΩΤ)	ITS Involve	d Project: Is ITS	Consulted? \Box		
Initiated in 2007, the progra volunteers and Non-Govern education to promote and ma since the program's inception BUILDING MARKHAM'	m focuses on suppo nent Organizations aintain the health an n. This is an annual	orting canopy core in . The program scope nd longevity of our of program and funds	e is developed urban forest. '	d annually based To date, over 400 sted each year.	on changing priori	ties that focus of	
DRAIECT COSTS (\$)	2024		<u>NOTES</u>				
PROJECT COSTS (\$)	<u>2024</u>	Future Phases	Program fo		lanting projects tha		
Cost/Quote:	84,700	0			partnership opport o the City's 30% tr		
Internal Charges: External Consulting:	39,088	0			such as 10,000 Tre		
Contingency %: 0	0 0	0 0			her corporate comn		ient
Sub Total:	123,788	0	projects to promote education and stewardship opportunities. Internal Chargeback for $1 - 150$ Day Staff. Funding source is Tree				
HST Impact:	125,788	0	for Tomorro	ow Reserve. The	balance in the Tree		
Total Project Cost:	125,300	0	reserve as o	of October 31, 20	23 is \$454,417.		
SOURCE(S) OF FUNDING	<u> (\$)</u>		Comp	onents			
<u>Funding Type</u>	<u>Budget</u>				TC	<u>Futu</u> DTAL Phas	
Other Internal	125,300	0	0	0	0	0	0
TOTAL FUNDING	125,300					0	0
OPERATING BUDGET I	MPACT Per	sonnel Non Per \$0 \$0		Revenues E \$0	xpenditures/(Reve \$0	enues)	
DCA/LIFE CYCLE DETA	ILS						
DCA				Amount in	Life Cycle		
Name		Yea	r Amount	Study	Amount in Stud	lv:	
					Amount Incl H	-	
					Year in the stu		
					Tear in the stu	uy	
DCA and/or Life Cycle	Explain if there is	a change in the year	and/or cost:				
<u> </u>							

MARKHAM 2024 PROJECT FUN	Number: 24214	
	Project Cost: \$574,600	
Project Name: Milliken Mills Park Waterplay Replace	ment Repair/Replace	
Commission: Community Services Department: Operations - Parks	Useful Life: 20 Pre Approva Category: Minor	.l: □
Project Mgr: Dean McDermid Ward(s): CW 1 2 3 4	Cost Validation: Internal peer review	
$5 \square 6 \square 7 \square 8 \checkmark$ ETAILED DESCRIPTION (SCOPE OF PROJECT):	Requirement Validation: Condition assessment ITS Involved Project: Is ITS Consulted?	

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This is an asset based program subject to condition assess
Cost/Quote:	535,970	0	This splash pad was installed in 2004 and this is the first
Internal Charges:	0	0	replacement cycle.
External Consulting:	28,730	0	
Contingency %: 0	0	0	
Sub Total:	564,700	0	
HST Impact:	9,939	0	
Total Project Cost:	574,600	0	
=			

SOURCE(S) OF FUNDING	(\$)		Compon	ents			F 4
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	574,600	0	0	0	0	0	0
TOTAL FUNDING	574,600				=	0	0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 574,600
		Amount Incl HST 574,600
		Year in the study 2024
DCA and/or Life Cycle: Explain if there is		

Project	Milliken Mills Waterplay Replacement
2024 Capital Request	\$574,600
Funding Source	Life Cycle Reserve
Description of Program	The splash pad at Milliken Mills park requires replacement based on condition assessment and life expectancy.
Project Rationale	This is an asset based program subject to condition assessment to replace the existing seasonal splash pad with a new one of equal play value
Legislative Requirement	
History	This splash pad was first installed in 2004 and this is the first time it has been replaced
Future Phases	This funding is requested each year based on lifecycle.
Total Project Cost	\$574,600.00
Related Projects	n/a
Related Maps	n/a
Alignment to the Strategic Plan	The City provides safe use of outdoor recreation facilities for families which aligns with the guidelines established in the Integrated Leisure Master Plan.

MARKHAM	2024 PRO.	JECT FUND	ING REQ	UEST FO	RM Number:	24215
Project Name: Mt. Joy A	rtificial Turf/G	rade Beam Repl	acement		Project Cost:	\$1,010,500
					Repai	r/Replace
Commission: <u>Community</u>				τ	Useful Life: 10	Pre Approval:
Department: <u>Operations</u> Project Mgr: James Bing				Category:	Major	
			Co	st Validation:	Other(specify in No	tes)
.,			Requirement Validation: Other(specify in Notes)			
DETAILED DESCRIPTIO		PROJECT):	ITS Involve	ed Project: Is I	TS Consulted?	
The replacement of the artifi be constructed at the south e from the full size outdoor fie BUILDING MARKHAM'	nd of the existing eld to eliminate un	field along with me even wear of the ar	echanical system	m relocation. T	This will separate the	year round use field
			NOTES	5		
PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	The current		at Mt. Joy is heavily	
Cost/Quote:	913,000	0			ort structure is erected	
Internal Charges:	0	0	will be installed at the south end of the field to facilitate year round useof the air support structure without impacting the seasonal use of the field. At the time of the reconfiguration,			
External Consulting: Contingency %: 0	80,000 0	0				
-						
Sub Total: _ HST Impact:	993,000 17,477	0	competitive	e league play.	Engagement of a cons	sultant/project
Total Project Cost:	1,010,500	0	— manager and a structural engineer will be required due to the			
SOURCE(S) OF FUNDING	<u> (\$) </u>		Comp	onents		Euturo
Funding Type	<u>Budget</u>				<u>T(</u>	<u>Future</u> DTAL <u>Phases</u>
Operating Funded Life Cycle	1,010,500	0	0	0	0	0
TOTAL FUNDING	1,010,500					0
	Ре	ersonnel Non P	ersonnel F	Revenues	Expenditures/(Rev	enues)
OPERATING BUDGET I	<u>MPACI</u>	\$0	\$0	\$0	\$0	
DCA/LIFE CYCLE DETA	ILS					
DCA				Amount in	<u>Life Cycle</u>	
Name		Ye	ear Amount	Study	Amount in Stu	dv:
					Amount Incl H	
						~ -
					Vear in the st	ıdv
					Year in the stu	ıdy

Project	Mt. Joy Artificial Turf/Grade Beam Replacement
2024 Capital Request	\$1,010,500
Funding Source	Life Cycle Reserve
Description of Program	Relocation of grade beam for air support structure to allow year round use of dome while
	providing a full-size outdoor artificial turf soccer field
Project Rationale	Artificial turf fields are an important component of the City's sports field resources and allow
	competitive league play outside of regular season dates.
Legislative Requirement	n/a
	The grade beam is currently located within the full-size soccer field. The use of the air
	support structure in this configuration is prematurely wearing the artificial turf in that
History	portion of the field resulting in uneven turf not acceptable to league play.
	The turf within the air support structure will be separated from the outdoor field as lifecycle
Future Phases	and replacement schedules will not align.
Total Project Cost	\$1,010,500.00
Related Projects	Capital project #23220 \$1,140,900 which includes consulting
Related Maps	n/a
Alignment to the Strategic Plan	
	The City provides safe use of indoor and outdoor recreation facilities for families and user
	groups which aligns with the guidelines established in the Integrated Leisure Master Plan.

2024 PROJECT FUNI	DING REQUEST FORM Number	: 24216
Project Name: Pathways Resurfacing	Project Cost:	\$151,300
Commission Community Station	Repa	air/Replace
Commission: Community Services	Useful Life: 15	Pre Approval:
Department: Operations - Parks		rr · · · ·
Project Mgr: Dean McDermid	Category: Minor	
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Recent awards	
	Requirement Validation: Condition assessm	ent
5 🗌 6 🔲 7 🗌 8 🗌	ITS Involved Project: Is ITS Consulted?	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	115 Involved Project: Is 115 Consulted?	

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Paving and repairs of existing asphalt pathways at various parks and locations. Limestone pathways require additional material to be

added and compacted to maintain safe and level surfacing. Locations will be assessed and determined based on condition assessment in spring. Staff will investigate environmental options for future considerations.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

External Consulting: 0 0 quantities and materia pathways are assessed
External Consulting: 0 0 pathways are assessed
Contingency %: 0 0 0 0 0 In Prov Leg O.Reg. 239
Sub Total: 148,681 0 There is no substantial b
HST Impact: 2,617 0 good repair.
Total Project Cost: 151,300 0

SOURCE(S) OF FUNDING ((\$)	Components					
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	151,300	0	0	0	0	0	0
TOTAL FUNDING	151,300					0	

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 151,300
		Amount Incl HST 151,300
		Year in the study 2024
DCA and/or Life Cycle: Explain if there is a		

2024 PROJECT FUNDING REQUEST FORM

MARKHAM	2024 PROJ	ECT FUND	ING REQUEST FO	ORM Numl	ber: 24	4217
Project Name: Pickleba	ll Court I ining D	rojoot		Project Cost	: \$13	,400
	0	Toject		N	lew Asset/Ex	pansion
Commission: <u>Communit</u>	-1			Useful Life: 7	Pre Ap	proval:
Department: <u>Operation</u> Project Mgr: Jason Tsie			Category:	: Minor		
			Cost Validation	: Third party esti	mate	
			Requirement Validation:	: Other(specify in	n Notes)	
DETAILED DESCRIPTI		ROJECT):	ITS Involved Project: Is	ITS Consulted?		
across Markham. The 2024 Pickleball is the fastest gro	4 project will add fo wing sport in North articipation and dem leball opportunities.	ur (4) sets of pickle America with the r and for additional Since 2020, the C	number of places to play nea public outdoor courts, this p	g outdoor tennis o arly doubling betw program aims to n l 24 outdoor pickl	court facilitie veen 2010 an neet commur	es. 1d 2016.
PROJECT COSTS (\$)	2024	Future Phases	NOTES			
Cost/Quote:	12,000	<u>ruture r nases</u> 0	The 2024 capital program facilities located at South			
Internal Charges:	0	0	Weaver Park. New pickl	eball lines painted	d on existing	community
External Consulting:	0	0	public tennis courts will outdoor tennis facility.			
Contingency %: 10	1,200	0	allow the City to systema	atically add pickle	ball lines to	existing
Sub Total:	13,200	0	public tennis facilities at requested each year of the			nding will be
HST Impact:	232	0	requested each year of th	le 5 year program	•	
Total Project Cost:	13,400	0				
SOURCE(S) OF FUNDIN	<u>G (\$)</u>		Components			Future
<u>Funding Type</u>	<u>Budget</u>				<u>TOTAL</u>	<u>Puture</u> <u>Phases</u>
Tax	13,400	0	0 0	0	0	0
TOTAL FUNDING	13,400			_	0	0
OPERATING BUDGET	I <u>MPACT</u> Per		ersonnel Revenues	Expenditures/(\$0	(Revenues)	
DCA/LIFE CYCLE DETA	AILS					
<u>DCA</u> Name		Ye	Amount in ar Amount Study	Life Cyc — Amount ir Amount Ir Year in th	n Study:	
DCA and/or Life Cycle	e: Explain if there is	a change in the ye	ar and/or cost:			

MARKHAM 2024 PROJECT F	UNDING REQUEST FORM Number: 24218
Project Name: Playstructure & Safety Surface Re	
Commission: Community Services	Repair/Replace
Department: <u>Operations - Parks</u> Project Mgr: Tanya Lewinberg	Useful Life: 17 Pre Approval: Category: Minor
Ward(s): CW \checkmark 1 \square 2 \square 3 \square 4 \square	Cost Validation: Recent awards
5 6 7 8	Requirement Validation: Condition assessment ITS Involved Project: Is ITS Consulted?
DETAILED DESCRIPTION (SCOPE OF PROJECT)): The involved Project is The Constituted. —

Replacement of playground equipment, and safety surfacing as required, to maintain the current standards (CSA – Canadian Standards Association CAN/CSA-Z614-07. Children's Playspaces and Equipment) and AODA compliance. There are 11 locations to be completed in 2024, which require the removal of the sand surfacing and installation of Engineered Wood Fiber (EWF).

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This is an asset based program with all locations subject to
Cost/Quote:	1,324,211	0	condition assessment. Funding changes yearly based on life
Internal Charges:	0	0	replacement of specific play structures. There is no backlog
External Consulting:	0	0	structure equipment upon completion of the 2024 project an
Contingency %: 0	0	0	assets are in a state of good repair. There is a backlog of A compliant playground safety surfacing which requires remo
Sub Total:	1,324,211	0	replacement with AODA compliant surfacing (EWF) by 20
HST Impact:	23,306	0	which will be addressed yearly with equipment replacement
Total Project Cost:	1,347,500	0	4 year project starting in 2023.

SOURCE(S) OF FUNDING	(\$)	Components						
Funding Type	<u>Budget</u>	Playground Structure	Safety Surface			TOTAL	<u>Future</u> <u>Phases</u>	
Gas Tax	1,347,500	655,800	691,700	0	0	1,347,500	0	
TOTAL FUNDING	1,347,500					1,347,500	0	

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

DCA				<u>Life Cycle</u>			
Name	Year Ar	nount	Study	Amount in Study:	1,452,700		
				Amount Incl HST	1,251,900		
				Year in the study	2024		
DCA and/or Life Cycle: Explain if there is a chan	ge in the year and/o	1 0050.					

Project	Playstructure & Rubberized Surface Replacement
2024 Capital Request	\$1,347,500
Funding Source	Life Cycle Reserve
Description of Program	Replacement of playground equipment, and safety surfacing as required, to maintain the current standards (CSA – Canadian Standards Association CAN/CSA-Z614-07. Children's Playspaces and Equipment) and AODA compliance. There are 9 structures to be completed in 2024 with 2 of them having rubberized surfacing and 13 which require the removal of the sand surfacing and installation of Engineered Wood Fiber (EWF).
Project Rationale	These structures require replacement prior to any failures occurring, based on condition assessment to meet the CSA guidelines (Z614-07 Children's Play spaces and Equipment).
Legislative Requirement	City play structures are required to be CSA – Canadian Standards Association CAN/CSA-Z614- 07 certified at the time of installation and throughout their useful life. Monthly inspections by certified playground inspectors combined with a yearly third party safety audit ensures compliance.
History	This project is reflective of play structures identified in the parks lifecycle and supported by condition assessment. Play structures are identified for inspection after 17 years of service with the total number of structures yearly being reflective of growth which occurred 17 years previously.
Future Phases	This funding is requested each year based on lifecycle.
Total Project Cost	n/a
Related Projects	Play Structure Rubberized Surface Replacement
Related Maps	n/a
Alignment to the Strategic Plan	The City provides safe use of outdoor recreation facilities for families which aligns with the guidelines established in the Integrated Leisure Master Plan.

2024 PLAYSTRUCTURE AND SAFETY SURFACE REPLACEMENT

Facility	Playground	Playground - Rubberized	Playground -	Playground- Curb & Concrete Entrance	Playground- Drainage & Site Works	Tree Protection	Fences	Mobilization and Demobilization	Sod	TOTAL
	Structure		Engineered		& Site Works			Demobilization		
		Surface	Wood Fiber	Ramp						
Abraham Iredell (1-Senior)	90,093		20,860	5,250	9,510	3,150	2,100	2,100	-	133,063
Colty Corners (1- Senior)	45,047		14,357	2,625	7,558	5,775	2,100	2,100		79,562
Frederick Bagg Park (1-Combined)	61,939		20,080	5,250	9,275	3,150	2,100	2,100		103,894
Frederick Peterson Park (1-Junior)	16,892		10,716	18,467	13,619	4,725	2,100	2,100	1,575	70,194
Roxbury North Unit (1-Senior)	106,986		6,347	18,467	7,756	3,150	2,100	2,100	1,575	148,480
Roxbury Central Unit (2 Swing Bays, with	28,154		8,895	17,609	14,390	3,150	2,100	2,100	1,575	77,974
Accessible swing and spring toys)										
Sinclair Holden Park (1-Senior)	67,570		26,062	5,250	13,670	6,300	2,100	2,100	1,575	124,627
Robert Grundy Parkette (1-Senior)	50,677		20,912	5,250	9,525	3,150	2,100	2,100	1,575	95,289
Gordon Stollery Park - South		163,029				1,050	2,100	2,100		168,279
Henry White (1-Junior, 1-Senior)	84,462	96,496				3,150	2,100	2,100		188,308
South Unionville Park (1-Senior)	61,939	65,262				3,150	2,100	2,100		134,551
TOTAL PRE-TAX	613,759	324,787	128,230	78,167	85,304	39,900	23,100	23,100	7,875	1,324,221
			TOTAL PRE-TAX							1,324,221
			EXTERNAL CONSU	LTING						66,211
			TOTAL PRE-TAX, II	NC. CONSULTING						1,390,432
			HST IMPACT							24,472
			2023 IN YEAR							(67,400)
			FOR							
			CONSULTING							
			TOTAL PROJECT C	OST						1,347,504
			ROUNDED OFF PR	OJECT COST						1,347,500

Component	
Playground Structure	624,500
Playground - Safety Surface	723,000
	1,347,500

2024 PROJECT FUND	ING REQUEST FORM	Number:	24219
Project Name: Relamping & Fixtures Refurbishment	Proje	ect Cost:	\$42,500
		Repair	r/Replace
Commission: Community Services	Useful Li	fe: 10	Pre Approval:
Department: <u>Operations - Parks</u> Project Mgr: James Bingham	Category: Annual		
	Cost Validation: Recent	awards	
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Requirement Validation: Conditi	on assessmer	nt
$5 \square 6 \square 7 \square 8 \square$ ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Cons	ulted?	

An independent audit of electrical services in municipal parks and sportsfields identifies locations for repair/maintenance of electrical components based on condition assessment. Metal halide lamps have decreased light levels yearly and require relamping to maintain safe light levels for play. Untimely outages may pose potential hazards.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES This is an annual program and funds will be requested each year
Cost/Quote:	35,800	0	Locations to be determined. Project scope includes bulb, defect
Internal Charges:	0	0	ballast, cables, broken lens replacements. Work to be completed
External Consulting:	6,000	0	is based on condition assessment by the lighting consultant and location specific. This is an annual program and funding will be
Contingency %: 0	0	0	requested each year. The assets are in a state of good repair.
Sub Total:	41,800	0	
HST Impact:	736	0	
Total Project Cost:	42,500	0	

SOURCE(S) OF FUNDING ((\$)		Compon	ents			F 4
<u>Funding Type</u>	Budget					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	42,500	0	0	0	0	0	0
TOTAL FUNDING	42,500					0	0

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

<u>DCA</u>	Amount i	n <u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 42,500
		Amount Incl HST 42,500
		Veen in the study 2024
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cost:	Year in the study 20.

	2024 PROJECT FUNDING REQUEST FORM	r ,	
MARKHAM	2024 I ROJECI I UNDING REQUESI FORM	Number:	24220
<u> </u>	Р	roject Cost:	\$17,900

Project Name: Replace Seasonal Containers	Repair/Replace
Commission: Community Services Department: Operations - Parks Project Mgr: Matt Busato	Useful Life: 10 Pre Approval: Category: Annual Cost Validation: Recent awards
Ward(s): $CW \swarrow 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	Requirement Validation: Condition assessment ITS Involved Project: Is ITS Consulted?
Replacement of aging parks receptacles.	

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This is year 7 of 10. There are approximately 500 sea
Cost/Quote:	17,614	40,062	receptacles in parks. Project will replace aging recepta
Internal Charges:	0	0	a multi year project and will be requested each year unt completed. Amount requested is consistent with the 202
External Consulting:	0	0	Cycle Reserve Study update.
Contingency %: 0	0	0	Cycle Reserve Study update.
Sub Total:	17,614	40,062	
HST Impact:	310	705	
Total Project Cost:	17,900	40,800	

)		Compone	ents			E4
Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
17,900	0	0	0	0	0	91,500
17,900					0	91,500
	Budget 17,900	Budget 17,900 0	Budget 17,900 0 0	Budget 17,900 0 0 0	Budget 17,900 0 0 0 0	Budget TOTAL 17,900 0 0 0 0

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

Year Amoun	nt Study	Amount in Study:	17,900
		Amount Incl HST	17.000
		i milo unic inter rito i	17,900
		Year in the study	2024
1	n the year and/or cos	n the year and/or cost:	• _

2024 PROJECT FUND	NG REQUEST FO	PRM	Number:	24221
Project Name: Shade Structure Rehabilitation and/or Re	placement	Proje	ct Cost:	\$231,900
	<u>F</u>		Repair	Replace
Commission: Community Services	T	Useful Life	e: 35	Pre Approval:
Department: <u>Operations - Parks</u> Project Mgr: Tyler Burns	Category:			i io i ippio (uii
Ward(s): CW ✓ 1 □ 2 □ 3 □ 4 □	Cost Validation:	Recent a	wards	
ward(s). (₩ ♥ 1 2 3 4 4 5 6 7 8 8	Requirement Validation:		_	ıt
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	ITS Consu	ılted? 🗆	

Rehabilitation and/or replacement of shade structures (gazebo minor, major and trellis) based on condition assessment. There are 14 locations in 2024.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This is an asset based program and is subject to conditi
Cost/Quote:	227,892	0	assessment. There is currently no backlog and the asset
Internal Charges:	0	0	state of good repair.
External Consulting:	0	0	
Contingency %: 0	0	0	
Sub Total:	227,892	0	
HST Impact:	4,011	0	
Total Project Cost:	231,900	0	

SOURCE(S) OF FUNDING (\$)			Compo	nents			Entuno
Funding Type	<u>Budget</u>	<u>Gasebo Major</u>	Gasebo Minor Rehab	Trellis Rehab		TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	231,900	118,800	27,500	85,600	0	231,900	0
TOTAL FUNDING	231,900				-	231,900	0

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

DCA/LIFE CYCLE DETAILS

<u>DCA</u>	Amount	in <u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 490,100
		Amount Incl HST 231,900
		Year in the study 2024
	if the main of the second of t	

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

The following locations are being deferred based on condition assessment: Minor Gazebo - South Unionville Park. Trellis -Caboto Trail Park, Clarence Chant, George Coathup Park, Greensborough Town Centre (2 units), Millennium Park (2 units), Nicholas Miller, Peter Bawden, Sinclair Holden Park, Speight, Wismer (10 units).

2024 Shade Structure Rehabilitation and Replacement (14 Locations)

Inventory Description	Facility	Cost
Gazebo - Major	Millenium - Bandstand - Structural Reports	10,498
Gazebo - Major	Millenium - Bandstand - Main Disconnect	1,441
Gazebo - Major	Millenium - Bandstand -Roof	104,851
Gazebo - Minor (Rehab.)	Unionville Planing Mill	7,521
Gazebo - Minor (Rehab.)	Avida Pond	5,181
Gazebo - Minor (Rehab.)	Monarch Park	8,357
Gazebo - Minor (Rehab.)	Peace Park - 2007	5,952
Trellis (Wood -Rehab)	Wilmot Parkette	6,336
Trellis (Steel -Rehab)	Beaupre Park	11,519
Trellis (Rehab)	Berczy Park North - 2 units	23,039
Trellis (Wood -Rehab)	Blake Lazenby - 2 units	12,671
Trellis (Rehab)	Fairtree Park	12,671
Trellis (Rehab)	John Stegman	11,519
Trellis (Steel - Rehab)	Simonston Park	6,336
	TOTAL PRE-TAX	227,892
	НЅТ ІМРАСТ	4,011
	TOTAL PROJECT COST	231,903
	ROUNDED OFF PROJECT COST	231,900

Summary By Component	
Gazebo-Major	118,800
Gazebo-Minor Rehab	27,500
Trellis -Rehab	85,600
	231,900

Department: Operations - Parks Project Mgr: James Bingham Category: Annual	MARKH	HAM 2024 PROJECT FUNDI	NG REQUEST FO	RM	Number:	24222
Commission: Community Services Repair/Replace Department: Operations - Parks Useful Life: 5 Pre Approval: Project Mgr: James Bingham Category: Annual	Project Name:	Sportsfield Maintanance & Reconstruction		Proje	ect Cost:	\$170,700
Department:Operations - ParksUseful Life:5Pre Approval:Project Mgr:James BinghamCategory:Annual			L		Repair	r/Replace
Project Mgr: James Bingham Category: Annual			Ŭ	Jseful Lif	fe: 5	Pre Approval:
	•	-	Category:	Annual		
Ward(s): CW 🗹 1 🗆 2 🗆 3 🗆 4 🗌 Cost Validation: Internal peer review	5 0		Cost Validation:	Internal	peer review	
$5 \bigcirc 6 \bigcirc 7 \bigcirc 8 \bigcirc$ Requirement Validation: Condition assessment			Requirement Validation:	Conditio	on assessmer	nt
DETAILED DESCRIPTION (SCOPE OF PROJECT): ITS Involved Project: Is ITS Consulted?	DETAILED DI		ITS Involved Project: Is I	TS Cons	ulted?	

Life cycle program includes top dressing, grass seed, sod, fertlizer, and irrigation upgrades as per contracts. Funds within this project may be reallocated to sportsfield maintenance materials and services that require immediate attention unforeseen at the time of submission such as sodding of damaged fields. Locations to be determined each spring and again at the end of playing season based on inspection.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This is an annual program and funds will be requested
Cost/Quote:	167,790	0	There are 216 sportsfields existing in various parks and
Internal Charges:	0	0	which consist of baseball diamonds, rugby, soccer, crick football fields. The lack of weeds on City fields is due la
External Consulting:	0	0	
Contingency %: 0	0	0	promoting healthy turf through sound cultural practices t each field and based on requirements. This is an annual p
Sub Total:	167,790	0	and funding will be requested each year. There is no sub-
HST Impact:	2,953	0	backlog within this program and assets are in a state of g Project cost is based on existing contracts.
Total Project Cost:	170,700	0	rioject cost is based on existing contracts.

SOURCE(S) OF FUNDING	(\$)		Compon	ents			F 4
Funding Type	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	170,700	0	0	0	0	0	0
TOTAL FUNDING	170,700					0	0
						<u> </u>	

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

DCA	Amount in	<u>Life Cycle</u>	
Name	Year Amount Study	Amount in Study:	146,300
		Amount Incl HST	170,700
		Year in the study	2024
DCA and/or Life Cycle: Explain if there is a c	seball diamonds and 2 A lit soccer fields at Co	ornell Park.	

NG REQUEST FORM	l Number:	24223
P	roject Cost:	\$28,600
	Repair	Replace
Usefu	ıl Life: 20	Pre Approval:
Category: Ann	nual	
Cost Validation: Rec	cent awards	_
Requirement Validation: Con	ndition assessmen	it
ITS Involved Project: Is ITS C	Consulted? \Box	
	Usefu Category: Ann Cost Validation: Requirement Validation: Con	Project Cost:

This project repairs stairways citywide, based on condition assessment. Stairways offer important access points to valley land, park, parking lots and facilities.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

SOURCE(S) OF FUNDING (<u>\$)</u>		Compone	ents			Futuno
<u>Funding Type</u>	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	28,600	0	0	0	0	0	0
TOTAL FUNDING	28,600					0	0

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

DCA	Amount in	<u>Life Cycle</u>		
Name	ame Year Amount Study	Amount in Study:	28,600	
		Amount Incl HST	28,600	
		X7 · · · · · 1	2024	
DCA and/or Life Cycle: Explain if the	ere is a change in the year and/or cost:	Year in the study	2022	
DCA and/or Life Cycle: Explain if the	ere is a change in the year and/or cost:	Year in the study	2024	
DCA and/or Life Cycle: Explain if the	ere is a change in the year and/or cost:	Year in the study	2024	

MARKHAM 2024 PROJECT FUNL	DING REQUEST FORM Number:	24224
Project Name: Talc Cabinet Replacement	Project Cost:	\$7,700
	Repai	r/Replace
Commission: Community Services Department: Operations - Parks Project Mgr: James Bingham	Useful Life: 20 Category: Annual	Pre Approval:
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$ ETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: Recent awards Requirement Validation: Condition assessme ITS Involved Project: Is ITS Consulted?	nt

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Replace aging talc cabinets with more ergonomic storage u
Cost/Quote:	7,600	0	user saftey. 2024 locations are Berczy Park South Major #
Internal Charges:	0	0	Coledale Park Major #1. These units are required to keep
External Consulting:	0	0	equipment and Talc material safe and dry for Baseball perm
Contingency %: 0	0	0	
Sub Total:	7,600	0	
HST Impact:	134	0	
Total Project Cost:	7,700	0	

SOURCE(S) OF FUNDING (<u>(\$)</u>		Compon	ents			Entune
<u>Funding Type</u>	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	7,700	0	0	0	0	0	0
TOTAL FUNDING	7,700				=	0	0

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

<u>DCA</u>		mount in	<u>Life Cycle</u>	
Name	Year Amount	Study	Amount in Study: 7,7	00
			Amount Incl HST 7,7	00
			Year in the study 20)24
DCA and/or Life Cycle: Explain if	there is a change in the year and/or cost:			124
DCA and/or Life Cycle: Explain if John Button deferred due to condit	there is a change in the year and/or cost:)24
)24

Operations -Fleet

2024 PROJECT FUNDING REQUEST FORM

Number: 24225

			Project (Cost:	\$181,100
Project Name: Autonomous Mo				New	Asset/Expansion
Commission: Community Service	es	I.	Jseful Life:	7	Pre Approval:
Department: Operations - Fleet		_		,	rie rippiovai.
Project Mgr: Steve Dollmaier/Al	bert Chan	Category:	Minor		
Ward(s): $CW \checkmark 1 \square 2 \square 3$		Cost Validation:	Third party	estima	te
5 6 6		Requirement Validation:	Other(speci	fy in N	otes)
DETAILED DESCRIPTION (SCO	-	ITS Involved Project: Is I	TS Consulted	d? 🗆	
To purchase two (2) Autonomous M across the City. This request for thes in 2024.	1 1 5	v 1	0	0	1
BUILDING MARKHAM'S FUTU	J RE TOGETHER: Safe	& Sustainable Community			
PROJECT COSTS (\$) 2024	Future Phases	NOTES		<u> </u>	LICD

PROJECT COSTS (\$)	2024	Future Phases	NOTES
	<u>2024</u>	<u>r uture Pliases</u>	\$64,950 US per unit; Price generated from the current USD
Cost/Quote:	177,963	0	exchange rate \$1.37. Autonomous lawn mower technology is
Internal Charges:	0	0	developing quickly and the turf grass industry is anticipating rapid
2	_	-	growth in professional applications. These autonomous gas-
External Consulting:	0	0	powered zero turn mowers provide many benefits including: fewer
Contingency %: 0	0	0	
Contingency 70.0	0	0	operators required addressing staff recruitment challenges,
Sub Total:	177,963	0	programmable operation reducing operator error issues and
			consistent mowing productivity and efficiency. Once an operator
HST Impact:	3,132	0	defines the cutting boundaries, the unit is programmed, monitored,
	404 400		
Total Project Cost:	181,100	0	and controlled remotely by smartphone.

SOURCE(S) OF FUNDING	Components					E	
<u>Funding Type</u>	Budget					TOTAL	<u>Future</u> <u>Phases</u>
DCA	181,100	0	0	0	0	0	0
TOTAL FUNDING	181,100					0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$19,726	\$0	\$19,726	

DCA/LIFE CYCLE DETAILS

MARKHAM

<u>DCA</u>		A	mount in	<u>Life Cycle</u>
Name	Year	Amount	Study	Amount in Study:
PUBLIC WORKS - Fleet	2024	181,100	1,004,295	
TOTAL FUNDING		181,100	1,004,295	Amount Incl HST
				Year in the study

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

024 PROJECT FUNDING REQUEST FORM	N
	24 PROJECT FUNDING REQUEST FORM

~		Project (Cost:	\$10,200
Project Name: Corporate Fleet Growth			New	Asset/Expansion
Commission: <u>Community Services</u>	I	Useful Life:	7	Pre Approval:
Department: <u>Operations - Fleet</u> Project Mgr: <u>Albert Chan/Steve Dollmaier</u>	Category:	Annual		
Ward(s): CW \checkmark 1 \square 2 \square 3 \square 4 \square	Cost Validation: Requirement Validation:			ont
$5 \square 6 \square 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is			

To purchase growth related Non- Fleet equipment such as push mowers, portable generators, cord trimmers, leaf blowers and other small tools.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES Additional equipment for additional seasonal staff based on growth
Cost/Quote:	10,000	0	
Internal Charges:	0	0	
External Consulting:	0	0	
Contingency %: 0	0	0	
Sub Total:	10,000	0	
HST Impact:	176	0	
Total Project Cost:	10,200	0	

SOURCE(S) OF FUNDING (\$) Components						Future_	
Funding Type	Budget					<u>TOTAL</u>	<u>Phases</u>
DCA	10,200	0	0	0	0	0	0
TOTAL FUNDING	10,200					0	0

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

DCA/LIFE CYCLE DETAILS

<u>DCA</u>	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study:
PUBLIC WORKS - Fleet	2024 0 1,004,295	Amount in Study.
TOTAL FUNDING	0 1,004,295	Amount Incl HST
		Year in the study

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

MARKH	IAM 202	24 PROJECT FUN	DING REQUEST FO	RM	Number:	24227
Project Name:	Corporate Flee	t Dofurbishing		Proje	ct Cost:	\$41,200
r roject rume.		t Kerui bishing			Repair	Replace
Commission:	Community Service	ces		Jseful Life	e: 3	Pre Approval:
Department:	Operations - Fleet		Category:			
Project Mgr:	Albert Chan/Steve	Dollmaier		-		
Ward(s):	CW 🗹 1□ 2□	3 4	Cost Validation:	Recent a	wards	
	5 6		Requirement Validation:			ıt
DETAILED DE	SCRIPTION (SC	OPE OF PROJECT):	ITS Involved Project: Is I	TS Consu	ılted? 🗀	

Equipment and vehicles require periodic refurbishing, rust proofing and corrosion protection to meet the Ministry of Transportation safety requirements and to ensure life cycle requirements are met. This program helps to mitigate maintenance costs and keeps the equipment in a state of good repair.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Project includes rust protection, body work and painting.
Cost/Quote:	40,537	0	Requirement Validation - condition assessment and legislative
Internal Charges:	0	0	compliance. This is an annual program. 3 year average is \$46F Amount requested is consistent with Life Cycle Reserve Study
External Consulting:	0	0	update.
Contingency %: 0	0	0	
Sub Total:	40,537	0	
HST Impact:	713	0	
Total Project Cost:	41,200	0	

SOURCE(S) OF FUNDING (Components					Entuno	
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	41,200	0	0	0	0	0	0
TOTAL FUNDING	41,200					0	0

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

DCA N	Amount i	n <u>Life Cycle</u>
ame Year Amount Study		Amount in Study: 41,200
		Amount Incl HST 41,200
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024

MARKH	1AM 2024 PROJECT FUND	ING REQUEST FO	RM	Number:	24228
Project Name:	Corporate Fleet Replacement - Fire		Projec	t Cost:	\$191,500
				Repair	/Replace
Commission:	Community Services	T	Jseful Life	: 5	Pre Approval:
Department:	Operations - Fleet	-		. 5	Tic Appiovai. —
Project Mgr:	Matt Keay/Steve Dollmaier	Category:	Minor		
	CW ☑ 1 □ 2 □ 3 □ 4 □	Cost Validation:	Recent av	wards	
ward(s).		Requirement Validation:	Condition	n assessmen	it
DETAILED DI	ESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I'	TS Consul	Ited?	

2024 Annual Fleet Replacement Program based on the Council adopted Corporate Fleet Policy Guidelines. Life cycle costing targets optimal replacement intervals (ORI) which identifies the most cost effective time period for replacement. All vehicles and equipment contained in this program have reached or surpassed the ORI. User Departments were consulted with respect to the units in this program. Total units for replacement - 4 units

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES Useful life varies from 5 to 10 years based on units types.
Cost/Quote:	188,157	0	Requirement validation - Condition assessment, vehicle reliabili
Internal Charges:	0	0	& down time, & operating costs. Units specified in this replacer
External Consulting:	0	0	program will be purchased with the most recent technology available at time of purchase providing maximized fuel econom
Contingency %: 0	0	0	with minimal emissions.
Sub Total:	188,157	0	
HST Impact:	3,312	0	
Total Project Cost:	191,500	0	

SOURCE(S) OF FUNDING	Components					F 4	
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	191,500	0	0	0	0	0	0
TOTAL FUNDING	191,500					0	0

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

Year Amount Study	y Amount in Study:	826,900
	Amount Incl HST	191,500
	Year in the study	2024
ł		Year Amount Study Amount in Study: Amount Incl HST Year in the study

2024 Corporate Fleet Replacement - Fire

Asset ID	Inventory Description	Mileage (Km)	Usage	Category	Model Year	2024	Adjustment	Updated	Comments
			(Hours)			Inflated		2024 Cost	
						Cost			
9091	DEPUTY CHIEF SUV - 4 x 4	136,242		FIRE-1- Fire	2014	47,039		47,039	Deferred from 2020 to 2024
9092	FIRE CHIEF SUV - 4 x 4	107,103		FIRE-1- Fire	2014	47,039		47,039	Deferred from 2020 to 2024
9093	DEPUTY CHIEF SUV - 4 x 4	156,365		FIRE-1- Fire	2013	47,039		47,039	Deferred from 2020 to 2024
9094	HYBRID 4 DOOR SEDAN	24,639		FIRE-1- Fire	2016	44,190	(44,190)	-	Deferred from 2024 to 2026
9095	HYBRID 4 DOOR SEDAN	85,638		FIRE-1- Fire	2016	44,190	2,849	47,039	
9402	COMPACT VAN	46,424		FIRE-1- Fire	2016	66,064	(66,064)	-	To be replaced in 2024 by Front Wheel
									Drive SUV - Deferred from 2024 to
									2026
9403	COMPACT VAN	39,711		FIRE-1- Fire	2016	66,064	(66,064)	-	To be replaced in 2024 by Front Wheel
									Drive SUV - Deferred from 2024 to
									2026
9404	COMPACT CAR	25,572		FIRE-1- Fire	2016	45,755	(45,755)	-	Deferred from 2024 to 2026
9406	COMPACT CAR	43,189		FIRE-1- Fire	2016	45,755	(45,755)	-	Deferred from 2024 to 2026
9407	COMPACT CAR	34,222		FIRE-1- Fire	2016	45,755	(45,755)	-	Deferred from 2024 to 2026
9408	COMPACT CAR	29,527		FIRE-1- Fire	2016	45,755	(45,755)	-	Deferred from 2024 to 2026
9409	COMPACT CAR	54,239		FIRE-1- Fire	2016	45,755	(45,755)	-	Deferred from 2024 to 2026
9410	COMPACT CAR	29,440		FIRE-1- Fire	2014	45,755	(45,755)	-	Deferred from 2022 to 2026
9411	COMPACT CAR	38,150		FIRE-1- Fire	2014	45,755	(45,755)	-	Deferred from 2022 to 2026
9412	COMPACT CAR	48,830		FIRE-1- Fire	2014	45,755	(45,755)	-	Deferred from 2022 to 2026
9414	COMPACT CAR	59,368		FIRE-1- Fire	2014	45,755	(45,755)	-	Deferred from 2022 to 2026
9803	FIRE MECHANICAL SERVICE FULL	36,476		FIRE-1- Fire	2014	39,138	(39,138)	-	Deferred from 2022 to 2026
	SIZE CARGO VAN								
					Total Pre-Tax	812,562	Total Pre-Tax	188,157	
					HST impact	14,301	HST impact	3,312	
					Total Project Cost	826,862	Total Project	191,468	

Total Pre-Tax	812,562	Total Pre-Tax	188,157
HST impact	14,301	HST impact	3,312
Total Project Cost	826,862	Total Project	191,468
		Cost	
Rounded Off	826,900	Rounded Off	191,500
Project Cost		Project Cost	
-		-	

ORIGINAL PROJECT COST

No. of	Category	Pre-Tax	HST	Project Cost
Units			Impact	
	Fire - Licensed			
17		812,562	14,301	826,863
	Fire Apparatus			
0		-	-	-
				-
		812,562	14,301	826,863
			Rounded	
			Off -	
			Project	
17			Cost	826,900

UPDATED PROJECT COST

No. of Units	Category	Pre-Tax	HST Impact	Project Cost
	Fire -			
4	Licensed	188,157	3,312	191,469
	Fire			
	Apparatus	-	-	-
			Rounded	
			Off - Project	
4			Cost	191,500
2024 PROJECT FUNDING REQUEST FORM

Number: 24229

	El. 4 D		· · · · · · · · · · · · · · · · · · ·	Pr	oject Cost:	\$100	8,600
	-	nent - Ice Resurf	acing Machine		Repa	ir/Replac	ce
Commission: Community	Services			Useful	Life: 10	Pre Ar	proval:
Department: Operations			(Category: Mino			protuit
Project Mgr: Albert Chan	/Steve Dollmaier			alidation: Othe		(atac)	
Ward(s): $CW \square 1 \checkmark$	2 3 4						
5 🗌	6 7 8		Requirement Va			ent	
DETAILED DESCRIPTIO	N (SCOPE OF P	ROJECT):	ITS Involved Pr	oject: Is ITS Co	onsulted? \Box		
Part of the 2024 Annual Flee assessment. Life cycle costin replacement. All equipment of respect to the units in this pro- BUILDING MARKHAM'S	g targets Optimal i contained in this program. Unit for re	Replacement Intervo rogram have reache placement - 1 ice re	als (ORI) which id d or surpassed the	lentifies the mos ORI. User Depa e at Angus Glen	st cost effectiv artments were	e time pe consulte	riod for
PROJECT COSTS (\$)	2024	Entrue Dhogog	NOTES				
	<u>2024</u>	Future Phases	Cost Validation				
Cost/Quote:	106,728	0	Requirement va operating costs.				
Internal Charges:	0	0	and make may c				
External Consulting: Contingency %: 0	0 0	0 0	funding will be				
			replacement pro technology avai				
Sub Total:	106,728	0	economy with n			iung ma	Annized Idei
HST Impact:	1,878						
Total Project Cost:	108,600	0					
SOURCE(S) OF FUNDING	(\$)		Compone	nts			Future
<u>Funding Type</u>	<u>Budget</u>				1	<u>'OTAL</u>	Phases
Operating Funded Life Cycle	108,600	0	0	0	0	0	0
						0	0
TOTAL FUNDING	108,600					v	
TOTAL FUNDING	108,600					<u> </u>	
	Per	rsonnel Non Pe	rsonnel Reve	nues Expe	enditures/(Re		
	Per	rsonnel Non Pe		-	enditures/(Re \$0		
OPERATING BUDGET IN	MPACT Per			-			
OPERATING BUDGET IN	MPACT Per		0 \$(-			
OPERATING BUDGET IN DCA/LIFE CYCLE DETAI	MPACT Per		0 \$() nount in Study	\$0 Life Cycle	venues)	108 600
OPERATING BUDGET IN DCA/LIFE CYCLE DETAI DCA	MPACT Per	\$0 \$	0 \$(nount in Study	\$0 Life Cycle Amount in St	venues)	108,600
OPERATING BUDGET IN DCA/LIFE CYCLE DETAI DCA	MPACT Per	\$0 \$	0 \$(nount in Study	\$0 Life Cycle Amount in St Amount Incl	venues) udy:	108,600
OPERATING BUDGET IN DCA/LIFE CYCLE DETAI DCA	MPACT Per	\$0 \$	0 \$(nount in Study	\$0 Life Cycle Amount in St	venues) udy:	
OPERATING BUDGET IN DCA/LIFE CYCLE DETAI DCA	MPACT Per	\$0 \$	0 \$(ar Amount	nount in Study	\$0 Life Cycle Amount in St Amount Incl	venues) udy:	108,600
OPERATING BUDGET IN DCA/LIFE CYCLE DETAI DCA Name	MPACT Per	\$0 \$	0 \$(ar Amount	nount in Study	\$0 Life Cycle Amount in St Amount Incl	venues) udy:	108,600
OPERATING BUDGET IN DCA/LIFE CYCLE DETAI DCA Name	MPACT Per	\$0 \$	0 \$(ar Amount	nount in Study	\$0 Life Cycle Amount in St Amount Incl	venues) udy:	108,600
OPERATING BUDGET IN DCA/LIFE CYCLE DETAI DCA Name	MPACT Per	\$0 \$	0 \$(ar Amount	nount in Study	\$0 Life Cycle Amount in St Amount Incl	venues) udy:	108,600
OPERATING BUDGET IN DCA/LIFE CYCLE DETAI DCA Name	MPACT Per	\$0 \$	0 \$(ar Amount	nount in Study	\$0 Life Cycle Amount in St Amount Incl	venues) udy:	108,600

MARKHAM

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Asset ID	Inventory Description	Facility	20	24 Inflated Cost	Comments
					Cost for a propane unit preferred by the department; Cost
	Zamboni 526	Angus Glen	\$	106,728	based on Zamboni Company quote
		HST Impact	\$	1,878	
		Total Project Cost	\$	108,606	
		Rounded Off Project		108,600	

MARKHAM 2024 PROJECT FU	UNDING REQUEST FORM Number: 24230
Project Name: Corporate Fleet Replacement - Non-	-Fire Project Cost: \$2,879,800
	Repair/Replace
Commission: Community Services	Useful Life: 5 Pre Approval:
Department: Operations - Fleet	
Project Mgr: Steve Dollmaier/Albert Chan	Category: Minor
Ward(s): CW \checkmark 1 \square 2 \square 3 \square 4 \square	Cost Validation: Recent awards
	Requirement Validation: Condition assessment
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?

2024 Annual Fleet Replacement Program based on the Council adopted Corporate Fleet Policy Guidelines. Life cycle costing targets optimal replacement intervals (ORI) which identifies the most cost effective time period for replacement. All vehicles and equipment contained in this program have reached or surpassed the ORI. User Departments were consulted with respect to the units in this program. Total units - 48.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Useful life varies - 4 to 12 years based on units types. Operations
Cost/Quote:	2,829,955	0	Non Fleet (\$59k) includes cord trimmers, chainsaws, blowers, et
Internal Charges:	0	0	Cost Validation- Most recent purchase of similar unit type; Requirement validation - Condition assessment, vehicle reliabilit
External Consulting:	0	0	& down time, & operating costs. Units specified in this program
Contingency %: 0	0	0	will be purchased with the most recent technology available at time
Sub Total:	2,829,955	0	of purchase providing maximized fuel economy with minimal emissions.
HST Impact:	49,807	0	
Total Project Cost:	2,879,800	0	

SOURCE(S) OF FUNDING	(\$)		Compor	nents			D 4
Funding Type	<u>Budget</u>	Licensed (25)	Non Licensed (25)	Non Fleet		TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	2,879,800	1,996,370	824,463	58,967	0	2,879,800	0
TOTAL FUNDING	2,879,800					2,879,800	0

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

DCA		Amount in	<u>Life Cycle</u>
Name	me Year Amount Study		Amount in Study: 2,418,700
			Amount Incl HST 2,879,800
			Year in the study 2024
DCA and/or Life Cycle: Explain if there is a cha Additional attachments were added to the LC an in 2023 (\$398,900).			ccelerated with budget being requested

2024 Corporate Fleet Replacement - Non-Fire

Asset ID	Inventory Description	Mileage (Km)	Usage (Hours)	Facility	Category	Model Year	2024 Inflated Cost	Adjustment	2024 Updated Cost	Comments
1230	FULL SIZE 1500 REG CAB PICK UP 4X2	76,462		OPERATIONS-Licensed	Licensed	2016	47,679	(47,679)	-	Deferred from 2023 to 2024
1231	19,500 GVW FLATBED WITH 9' ARCTIC PLOW	82,364		OPERATIONS-Licensed	Licensed	2016	141,670		141,670	
1233	ONE TON FLATBED GASOLINE	118,183		OPERATIONS-Licensed	Licensed	2016	56,538		56,538	
1237	ONE TON FLATBED GASOLINE	136,825		OPERATIONS-Licensed	Licensed	2016	56,538		56,538	
1238	ONE TON FLATBED GASOLINE	138,814		OPERATIONS-Licensed	Licensed	2016	56,538		56,538	
1239-1	LIFTGATE	-	-	OPERATIONS-Non Licensed	Non Licensed	2009		7,441	7,441	Attachment not included in lifecycle when purchased new vehicle in 2023; Lifecycle to be adjusted on the next update
1241	FULL SIZE REG CAB PICK UP 4X4	177,014		OPERATIONS-Licensed	Licensed	2016	45,749		45,749	
1242	SERVICE BODY SIGN TRUCK C/W POST PULLER	114,628		OPERATIONS-Licensed	Licensed	2016	132,657		132,657	
1244	FULL SIZE REG CAB PICK UP 4X4	129,309		OPERATIONS-Licensed	Licensed	2016	45,749		45,749	
1245	FULL SIZE REG CAB PICK UP 4X4	115,122		OPERATIONS-Licensed	Licensed	2016	45,749		45,749	
1249	FULL SIZE REG CAB PICK UP 4X4	156,419		OPERATIONS-Licensed	Licensed	2016	45,749		45,749	
1274	SINGLE AXLE ALLSEASON DUMP/PLOW/WING	89,621	5,359	OPERATIONS-Licensed	Licensed	2013	298,644		298,644	Original project in 2023 (23020), due to funding shortfall/change in scope re-submitted to 2024.
1274	SINGLE AXLE ALLSEASON DUMP/PLOW/WING - SPECIFICATION CHANGE			OPERATIONS-Licensed	Licensed		125,887		125,887	Specification change from single axle to tandem axle
1436	LOADER BACKHOE		3,860	OPERATIONS-Non Licensed	Non Licensed	2016	279,000		279,000	Original project in 2023 (23232), due to funding shortfall re- submitted to 2024 with updated cost
1961	UTILITY TRAILER 6 X 12 WITH REAR RAMP	-	-	OPERATIONS-Licensed	Licensed	2002	3,588		3,588	Deferred from 2022 to 2024
1974	COLD PLANER	-	-	OPERATIONS-Non Licensed	Non Licensed	2011	29,182		29,182	Deferred from 2023 to 2024
1976	84 " REAR MOUNT SNOWBLOWER SINGLE AUGER	-	-	SIDEWALK-Non Licensed	Non Licensed	2009	8,117		8,117	Deferred from 2021 to 2024
3240	COMPACT CAR	63,213		OPERATIONS / PARKS-Licensed	Licensed	2015	32,746	(32,746)	0	Deferred from 2023 to 2025
3241	COMPACT CAR	55,627		OPERATIONS / PARKS-Licensed	Licensed	2015	32,746	(32,746)	0	Deferred from 2023 to 2025
3320	COMPACT SUV	113,870		OPERATIONS-Licensed	Licensed	2016	66,010			Updated cost based on dealer's 2023 website(Chrysler Pacifica Hybrid); Corrected the description to a compact SUV from a compact Van
3322-1	SLIDE-IN SPREADER	-	-	OPERATIONS-Non Licensed	Non Licensed	2009		17,500	17,500	Attachment not included in lifecycle when purchased new vehicle in 2023; Lifecycle to be adjusted on the next update
3324-1	SLIDE-IN SPREADER	-	-	OPERATIONS-Non Licensed	Non Licensed	2009		17,500		Attachment not included in lifecycle when purchased new vehicle in 2023; Lifecycle to be adjusted on the next update
3327-1	LIFTGATE	-	-	OPERATIONS-Non Licensed	Non Licensed	2009		7,441	7,441	Attachment not included in lifecycle when purchased new vehicle in 2023; Lifecycle to be adjusted on the next update
3328-1	LIFTGATE	-	-	OPERATIONS-Non Licensed	Non Licensed	2009		7,441		Attachment not included in lifecycle when purchased new vehicle in 2023; Lifecycle to be adjusted on the next update
3331	FULL SIZE PICK UP 4X4 WITH 8' ARCTIC PLOW	96,585		OPERATIONS-Licensed	Licensed	2016	67,540		67,540	
3332	CREW CAB DIESEL 9' DUMP	80,980		OPERATIONS-Licensed	Licensed	2014	76,560			Deferred from 2023 to 2024
3333	CREW CAB DIESEL 9' DUMP	88,386		OPERATIONS-Licensed	Licensed	2016	76,560		76,560	

Asset ID	Inventory Description	Mileage (Km)	Usage (Hours)	Facility	Category	Model Year	2024 Inflated Cost	Adjustment	2024 Updated Cost	Comments
3336-1	SLIDE-IN SPREADER	-	-	OPERATIONS-Non Licensed	Non Licensed	2009		17,500	17,500	Attachment not included in lifecycle when purchased new vehicle in 2023; Lifecycle to be adjusted on the next update
3342-1	SLIDE-IN SPREADER	-	-	OPERATIONS-Non Licensed	Non Licensed	2009		17,500	17,500	Attachment not included in lifecycle when purchased new vehicle in 2023; Lifecycle to be adjusted on the next update
3347	19,500 GVW FLATBED WITH 9' ARCTIC PLOW	80,313		OPERATIONS-Licensed	Licensed	2016	141,670		141,670	
3349	19,500 GVW FLATBED WITH 9' ARCTIC PLOW	101,467		OPERATIONS-Licensed	Licensed	2016	141,670		141,670	
3349-1	SLIDE-IN SPREADER	-	-	OPERATIONS-Non Licensed	Non Licensed	2009		17,500	17,500	Attachment not included in lifecycle needs to be purchased in 2024 to align with vehicle replacement; Lifecycle to be adjusted on the next update
3351	COMPACT SUV			OPERATIONS-Licensed	Licensed	2016	66,599		66,599	
3353-1	TAILGATE SPREADER	-	-	OPERATIONS-Non Licensed	Non Licensed	2009		11,000	11,000	Attachment not included in lifecycle; Lifecycle to be adjusted on the next update
3356	FULL SIZE 3/4 TON PICK UP 4X4			OPERATIONS / PARKS-Licensed	Licensed	2014	76,998		76,998	Deferred from 2022 to 2024
3363	CREW CAB DIESEL 9' DUMP			OPERATIONS-Licensed	Licensed	2016	76,560		76,560	
3375-1	SLIDE-IN SPREADER	-	-	OPERATIONS-Non Licensed	Non Licensed	2009		17,500	17,500	Attachment not included in lifecycle when purchased new vehicle in 2023; Lifecycle to be adjusted on the next update
3914	STUMP GRINDER 25"		20	OPERATIONS-Non Licensed	Non Licensed	2012	49,542	(49,542)	(0)	Deferred from 2023 to 2025
3961	FRONT MOUNT 72" REAR DISCHARGE ROTARY MOWER C/W CAB		542	OPERATIONS-Non Licensed	Non Licensed	2016	41,452		41,452	
4029	3PT HITCH 90" SPORT TINE AERATOR	-	-	OPERATIONS-Non Licensed	Non Licensed	2009	11,154		11,154	
4142	FRONT MOUNT 72" ROTARY MOWER C/W CAB		545	OPERATIONS-Non Licensed	Non Licensed	2010	41,452		41,452	Deferred from 2018 to 2024
4187	SCISSOR LIFT TRAILER	-	-	OPERATIONS / PARKS-Licensed	Licensed	2013	6,484		6,484	Deferred from 2023 to 2024
4207	ZERO TURN 60" SIDE DISCHARGE DIESEL		458	OPERATIONS / PARKS-Non Licensed	Non Licensed	2016	28,408	(28,408)	0	Deferred from 2023 to 2025
4301	UTILITY VEHICLE 4X4 DIESEL		1,477	OPERATIONS / PARKS-Non Licensed	Licensed	2016	15,978		15,978	
4384	ZERO TURN 72" SIDE DISCHARGE DIESEL		1,260	OPERATIONS / PARKS-Non Licensed	Non Licensed	2015	28,408		28,408	
4389	ZERO TURN 60" SIDE DISCHARGE DIESEL		284	OPERATIONS / PARKS-Non Licensed	Non Licensed	2016	28,408	(28,408)	0	Deferred from 2023 to 2025
4444	TOP DRESSER HYDAULIC DRIVE	-	-	OPERATIONS / PARKS-Non Licensed	Non Licensed	2009	29,389		29,389	
4482	ZERO TURN 60" SIDE DISCHARGE DIESEL			OPERATIONS-Non Licensed	Non Licensed	2016	28,408	(28,408)		Deferred from 2023 to 2025
4498	ZERO TURN 60" SIDE DISCHARGE DIESEL			OPERATIONS-Non Licensed	Non Licensed	2016	28,408	(28,408)		Deferred from 2023 to 2024
4518	ZERO TURN 60" SIDE DISCHARGE DIESEL			OPERATIONS-Non Licensed	Non Licensed	2016	28,408	(28,408)	0	Deferred from 2023 to 2025
4545 4561	FRONT MOUNT 61" 3 WHEEL MOWER TRACTOR DRIVEN 13' ROTARY MOWER	-	- 1,104	OPERATIONS-Non Licensed OPERATIONS / PARKS-Non	Non Licensed Non Licensed	2016 2011	11,501 16,408		11,501 16,408	Deferred from 2020 to 2024 Deferred from 2021 to 2024
5101	SCISSOR LIFT TRAILER	-	-	Licensed OPERATIONS - RECRE-1-Licensed	Licensed	2013	6,484		6,484	Deferred from 2023 to 2024
5120	COMPACT PICK UP	93,953		OPERATIONS-Licensed	Licensed	2016	40,174		40,174	conversion to crew cab
5120 6080	COMPACT PICK UP COMPACT PICK UP	93,953		OPERATIONS-Licensed ENFOR LIC-Licensed	Licensed	2016	40,174 47,498			conversion to crew cab conversion to crew cab
8050		32,350		ENGIN-1-Licensed	Licensed	2016	41,366	(41,366)	47,498	Deferred from 2024 to 2025 conversion to crew cab
8051	COMPACT PICK UP	61,021		ENGIN-1-Licensed	Licensed	2016	41,366	(41,366)	-	Conversion to crew cab Deferred from 2024 to 2025 conversion to crew cab
8052	COMPACT PICK UP	71,790		ENGIN-1-Licensed	Licensed	2016	41,366	(41,366)	-	Deferred from 2024 to 2025 conversion to crew cab

Asset ID	Inventory Description	Mileage (Km)	Usage (Hours)	Facility	Category	Model Year	2024 Inflated Cost	Adjustment	2024 Updated Cost	Comments
8056	COMPACT SUV FWD	28,796		ENGIN-1-Licensed	Licensed	2014	41,300	(41,300)	-	Deferred from 2022 to 2025; conversion to hybrid
8057	COMPACT SUV FWD	38,935	-	ENGIN-1-Licensed	Licensed	2014	41,300	(41,300)	0	Deferred from 2022 to 2025; conversion to hybrid
All	Operation Non Fleet < \$5,000 or Misc	-		OPERATIONS- Operation Non Fleet < \$5,000 or Misc	Operation Non Fleet < \$5,000 or Misc	2023	57,910		57,910	
KU-MIL	SUB COMPACT Kubota tractor BX2660	-		RECREATION- Non Licensed (Milliken Mills C.C.)	Non Licensed	2009	58,605		58,605	From Recreation; Includes Spreader
	SUB COMPACT Kubota tractor B3000HSDC	-		RECREATION- Non Licensed (Angus Glen C.C.	Non Licensed	2013	58,605		58,605	Accelerate from 2028 to 2024; From Recreation;Includes plow/salter/blower/bucket
KU-COR	SUB COMPACT Kubota tractor BX2660	-		RECREATION- Non Licensed (Cornell)	Non Licensed	2012	58,605		58,605	Accelerated from 2027 to 2024; From Recreation; Includes Spreader/Blade/Brush
						Total Pre-Tax	3,203,083	Total Pre-Tax - Updated	2,829,955	Total Pre Approval

				Spreader/Blade/
Total Pre-Tax	3,203,083	Total Pre-Tax - Updated	2,829,955	Total Pre Approv
HST impact	56,374	HST impact	49,807	
Total Project Cost	3,259,457	Total Project Cost - Updated	2,879,762	
Rounded Off Project Cost	3,259,500	Rounded Off Project Cost	2,879,800	

ORIGINAL PROJECT COST

No. of				
Units	Category	Pre-Tax	HST Impact	Project Cost
33	Licensed	2,281,712	40,158	2,321,870
19	Non Licensed	863,461	15,197	878,658
	Operations Non-Fleet <\$5,000 or Misc	57,910	1,019	58,929
		3,203,083	56,374	3,259,457
52			Rounded Off Project Cost	

UPDATED PROJECT COST

No. of Units	Category	Pre-Tax	HST Impact	Project Cost
25	Licensed	1,961,842	34,528	1,996,370
23	Non Licensed	810,203	14,260	824,463
	Operations Non-Fleet <\$5,000 or Misc	57,910	1,019	58,929
		2,829,955	49,807	2,879,762
48			Rounded Off - Project Cost	2,879,800

MARKH	AM 2024 PROJECT FUNDI	NG REQUEST FO	RM	Number:	24231
Project Name:	Corporate Fleet Replacement - Waterwor	ks	Projec	et Cost:	\$326,600
				Repair	/Replace
Commission:	Community Services	T	Jseful Life	: 8	Pre Approval: 🗹
Department:	Operations - Fleet	-		. 0	Tie Appiovai. —
Project Mgr:	Steve Dollmaier/Edgar Tovilla	Category:	Major		
· · ·	 CW ☑ 1□ 2□ 3□ 4□	Cost Validation:	Recent a	wards	
ward(s).		Requirement Validation:	Condition	n assessmen	ıt
	5 6 6 7 8	ITS Involved Project: Is I	TS Consul	ltad2	
DETAILED DE	ESCRIPTION (SCOPE OF PROJECT):	115 monved Project. Is I	15 Collsu		

Part of the Annual Fleet Replacement Program based on the Council adopted Corporate Fleet policy guidelines. Life Cycle costing targets Optimal Replacement Intervals (ORI) which identifies the most cost effective time period for replacement. All vehicles and equipment (5 units) contained in this program have reached or surpassed the ORI. This request will be funded through the Waterworks Reserve.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES 5 units - Requirement Validation - meeting the approved
Cost/Quote:	320,955	0	replacement criteria, pending condition assessment. All units in
Internal Charges:	0	0	request will be purchased with the most recent technology availant time of numbers around the most recent technology availant time around the second technology availant technology availa
External Consulting:	0	0	at time of purchase providing maximum fuel economy with minimal emissions.
Contingency %: 0	0	0	
Sub Total:	320,955	0	
HST Impact:	5,649	0	
Total Project Cost:	326,600	0	

SOURCE(S) OF FUNDING (\$)		Components					
<u>Funding Type</u>	<u>Budget</u>	Licensed (3)	Non Fleet	Non Licensed (2)		TOTAL	<u>Future</u> <u>Phases</u>
Waterworks	326,600	201,700	2,300	122,600	0	326,600	0
TOTAL FUNDING	326,600				=	326,600	0

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

	Amount in	<u>Life Cycle</u>		
Year Amount Stu	ıdy	Amount in Study:	725,500	
		Amount Incl HST	326,600	
		Year in the study	2024	
		Year Amount Study	Year Amount Study Amount in Study: Amount Incl HST Year in the study	

2024 Waterworks Fleet Replacement

Asset ID	Inventory Description	Mileage (Km)	Usage (Hours)	Facility	Model Year	2024 Inflated Pre- Tax	Adjustment	2024 Updated Cost	Comments
2167	FULL SIZE CARGO VAN	56,421		WATER- Licensed	2016	66,079	(66,079)	-	Deferred from 2024 to 2025
2168	FULL SIZE CARGO VAN	73,442		WATER- Licensed	2016	66,079		66,079	Current safety recall on the drive train - parts are not available to do the repair Framebolt issues Parts to do any repairs not available
2172	FULL SIZE CARGO VAN	84,777		WATER- Licensed	2016	66,079		66,079	
2176	FULL SIZE CARGO VAN	69,581		WATER- Licensed	2016	66,079	(66,079)	-	Deferred from 2024 to 2025
2177	FULL SIZE CARGO VAN	102,933		WATER- Licensed	2016	66,079		66,079	
2179	FULL SIZE CARGO VAN	63,818		WATER- Licensed	2016	66,079	(66,079)	-	Deferred from 2024 to 2025
2181	COMPACT VAN	61,154		WATER- Licensed	2014	63,868	(63,868)	-	Deferred from 2024 to 2025
2182	COMPACT VAN	60,441		WATER- Licensed	2014	63,868	(63,868)	-	Deferred from 2024 to 202
2190	FULL SIZE CARGO VAN	59,741		WATER- Licensed	2016	66,079	(66,079)	-	Deferred from 2024 to 202
2245	PORTABLE DIESEL GENERATOR 35 KV		NA	WATER- Non Licensed (Tools & Equip)	2008	67,907		67,907	Deferred from 2021 to 2024
2246	FORKLIFT PROPANE POWERED		943	WATER- Non Licensed (Tools & Equip)	2010	52,540		52,540	Deferred from 2022 to 2024
	Waterworks Non Fleet < \$5,000 or Misc			WATER - Waterworks Non Fleet < \$5,000 or Misc	2022	2,271		2,271	
						713,007	(392,052)	320,955	
					Total Pre-Tax	713,007	Total Pre-Tax - Updated	320,955	
					HST impact	12,549	HST impact	5,649	
					Total Project Cost	725,555	Total Project Cost - Updated	326,604	
					Rounded Off Project Cost	725,600	Rounded Off Project Cost	326,600	

ORIGINAL PROJECT COST

No. of				
Units	Category	Pre-Tax	HST Impact	Project Cost
9	Licensed	590,289	10,389	600,678
2	Non Licensed (Tools & Equipment)	120,447	2,120	122,567
	Waterworks Non Fleet < \$5,000 or Misc	2,271	40	2,311
		713,007	12,549	725,556
11			Rounded	725,600
			Off - Project	
			Cost	

UPDATED PROJECT COST

No. of Units	Category	Pre-Tax	HST Impact	Project Cost
3	Licensed	198,237	3,489	201,726
2	Non Licensed (Tools & Equipment)	120,447	2,120	122,567
	Waterworks Non Fleet < \$5,000 or Misc	2,271	40	2,311
		320,955	5,649	326,604
5			Rounded Off - Project Cost	326,60

Project Name: New Fleet - Parks		Project (Cost:	\$96,700
			New A	sset/Expansion
Commission: Community Services Department: Operations - Fleet Project Mgr: Steve Dollmaier/David Plant Ward(s): CW ✓ 1□ 2□ 3□ 4□ 5□ 6□ 7□ 8□	Category: Cost Validation: Requirement Validation:	Recent awa		Pre Approval:
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulte	d? 🗆	

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES 3/4 Ton Pickup - One new Parks General Maintenance employee
Cost/Quote:	95,000	0	hire as part of the 2023 Budget Approval. This employee provides
Internal Charges:	0	0	monthly inspections and repairs to parks playgrounds and requires a dedicated vehicle equipped with tools and materials.
External Consulting:	0	0	(2) Tandem Axle Dump Trailers - These have two sets of axles that
Contingency %: 0	0	0	allow the trailer to carry more weight and to be more stable at high
Sub Total:	95,000	0	speeds and on highways. The larger capacity means more room for hauling equipment from site to site instead of driving the equipment
HST Impact:	1,672	0	on the road which causes damage and break downs. Currently we
Total Project Cost:	96,700	0	only have 3 Tandem Axle Trailers in the entire Fleet.

SOURCE(S) OF FUNDING (\$)		Components						
Funding Type	<u>Budget</u>	<u>Pick up</u>	Dump Trailers			TOTAL	<u>Future</u> <u>Phases</u>	
DCA	96,700	76,300	20,400	0	0	96,700	0	
TOTAL FUNDING	96,700				=	96,700	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$13,600	\$0	\$13,600

DCA/LIFE CYCLE DETAILS

<u>DCA</u>		А	mount in	<u>Life Cycle</u>
Name	Year	Amount	Study	Amount in Study:
PUBLIC WORKS - Fleet	2024	257,500	1,004,295	Amount in Study.
TOTAL FUNDING		257,500	1,004,295	Amount Incl HST
				Year in the study

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

3/4 Pick-Up Truck (1 unit)		Pre-Tax Amount	Useful Life
Amount Tandem Axle Dump Trailers with	Per unit - Pre- Tax \$74,000 + \$1,000 (Markhamizing)	75,000	8
landscaper option, battery tender, sides, tie down hooks (2 units)	Per unit - Pre- Tax \$10,000 each + no Markhamizing Total Pre-Tax HST Impact Total Inc. HST Impact Total Project Cost - Rounded Off	20,000 95,000 1,672 96,672 \$ 96,700	10
Funding Source:	DCA		
Operating Impact (Annual)	Gas Parts External Vehicle Maintenance 407 Charges License Budget for AVL	4,000 4,500 3,000 1,500 275 325	
	Total Operating Impact (Annual)	\$ 13,600	

Project Name: New Fleet, Dr. Level and Decreletory Court		Project	Cost:	\$113,000
Project Name: New Fleet -By-Law and Regulatory Serv	vices		New A	Asset/Expansion
Commission: Community Services Department: Operations - Fleet Determine: Operations - Fleet	t Category:	Useful Life: Minor	7	Pre Approval:
Project Mgr:Albert Chan/Steve DollmaierWard(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$	Cost Validation: Requirement Validation:			tes)
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulte	ed?	
Supply & delivery of (2) PHEV SUVs.				

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES 2 PHEV SUVs - As approved in the 2023 Budget three (3)
Cost/Quote:	111,000	0	MLEO. The By-law & Regulatory Services Officers require 2 flee
Internal Charges:	0	0	vehicles that will provide them the ability to perform their daily
External Consulting:	0	0	patrols and enforce City of Markham by-laws.
Contingency %: 0	0	0	
Sub Total:	111,000	0	
HST Impact:	1,954	0	
Total Project Cost:	113,000	0	

SOURCE(S) OF FUNDING	<u> (\$)</u>		Compone	ents			F 4
Funding Type	Budget					TOTAL	<u>Future</u> <u>Phases</u>
DCA	113,000	0	0	0	0	0	0
TOTAL FUNDING	113,000				=	0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$20,400	\$0	\$20,400

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study:
		Amount Incl HST
		Year in the study
DCA and/or Life Cycle: Explain if there is a c	hange in the year and/or cost:	
DCA and/or Life Cycle: Explain if there is a c	hange in the year and/or cost:	
DCA and/or Life Cycle: Explain if there is a c	hange in the year and/or cost:	
DCA and/or Life Cycle: Explain if there is a cl	hange in the year and/or cost:	

2024 New Fleet - By -Law and Regulatory Service

SUV (2 units) - Same as By-Law		Pre-Tax Amount	Useful Life
Amount Funding Source:	Per - Unit Pre- Tax \$54,000 + \$1,500 (Markhamizing) DCA	111,000	8
	Total Pre-Tax	111,000	
	HST Impact	1,954	
	Total Inc. HST Impact	112,954	
	Total Project Cost - Rounded Off	\$ 113,000	
Operating Impact (Annual)	Gas	7,000	
	Parts	3,000	
	External Vehicle Maintenance	6,000	
	407 Charges	3,500	
	License	250	
	Budget for AVL	650	
	Total Operating Impact		
	(Annual)	\$ 20,400	

Operations -Utility Inspection & ROW

2024 PROJECT FUNDING REQUEST FORM

Number: 24234

				Project Co	st: \$20	,400
Project Name: German	Mills Meadow -	Boundary Fence	Mainteannce		Repair/Replace	ce
Commission: Community	Services		I	Jseful Life:		proval:
Department: Operations			Category:		15 11074	provai.
Project Mgr: <u>Negar Mah</u>	moundi		Cost Validation:		la la	
Ward(s): CW \Box 1	2 3 4					
5	6 7 8		Requirement Validation:			
DETAILED DESCRIPTIO	ON (SCOPE OF P	ROJECT):	ITS Involved Project: Is	TS Consulted		
The Closed Sabiston landfill landfill area impact the bour boundary fence ensuring its Habitat - Additional Mainter BUILDING MARKHAM	dary fence conditi stability and safety nance near north-w	on abutting resident . (Reference: Counc rest side of the Meac	ial properties. The City is re il Report, dated Oct.31,201	esponsible for 1 6 - German M	maintenance of	f the
PROJECT COSTS (\$)	2024	<u>Future Phases</u>	NOTES			
ROJECT COSTS (\$) 2024 Cost/Quote: 20,000			This project is for the ma			
		· ·	0 north and west property boundary of German ensure safety and stability for abutting reside			
Internal Charges: External Consulting:	0	0 0	maintenance program is i	required every	two years. The	fence
Contingency %: 0	0	0	replacement program needs to be added to the life cycle as separate item for German Mills Meadow- Boundary Fence			
Sub Total:	20,000	0				
HST Impact:	352	0		j	T	
Total Project Cost:	20,400	0				
=						
OURCE(S) OF FUNDING	<u> (\$)</u>		Components			<u>Future</u>
Funding Type	<u>Budget</u>				TOTAL	Phases
perating Funded Life Cycle	20,400	0	0 0	0	0	0
TOTAL FUNDING	20,400				0	0
OPERATING BUDGET I	мраст ^{Ре}	rsonnel Non Pe	rsonnel Revenues	Expenditure	s/(Revenues)	
OPERATING BUDGET I	MPACT Pe	sonnel Non Per		Expenditure \$		
	<u>MPACT</u>			-		
	<u>MPACT</u>			-	0	
DCA/LIFE CYCLE DETA	<u>MPACT</u>		0 \$0 Amount in	\$ Life C	0 ycle	
DCA/LIFE CYCLE DETA DCA	<u>MPACT</u>	\$0 \$	0 \$0 Amount in	\$ <u>Life C</u> Amount	0 ycle in Study:	
DCA/LIFE CYCLE DETA DCA	<u>MPACT</u>	\$0 \$	0 \$0 Amount in	S Life C — Amount Amount	0 ycle in Study: Incl HST	
DCA/LIFE CYCLE DETA DCA	<u>MPACT</u>	\$0 \$	0 \$0 Amount in	S Life C — Amount Amount	0 ycle in Study:	
DCA/LIFE CYCLE DETA DCA	MPACT ILS	\$0 \$0 Yea	0 \$0 ar Amount in Study	S Life C — Amount Amount	0 ycle in Study: Incl HST	
DCA/LIFE CYCLE DETA DCA Name	MPACT ILS : Explain if there is	\$0 \$0 Yea	0 \$0 ar Amount Manual Amount in Study r and/or cost:	S Life C — Amount Amount	0 ycle in Study: Incl HST	
DCA/LIFE CYCLE DETA DCA Name DCA and/or Life Cycle	MPACT ILS : Explain if there is	\$0 \$0 Yea	0 \$0 ar Amount Manual Amount in Study r and/or cost:	S Life C — Amount Amount	0 ycle in Study: Incl HST	
DCA/LIFE CYCLE DETA DCA Name DCA and/or Life Cycle	MPACT ILS : Explain if there is	\$0 \$0 Yea	0 \$0 ar Amount Manual Amount in Study r and/or cost:	S Life C — Amount Amount	0 ycle in Study: Incl HST	
Name DCA and/or Life Cycle	MPACT ILS : Explain if there is	\$0 \$0 Yea	0 \$0 ar Amount Manual Amount in Study r and/or cost:	S Life C — Amount Amount	0 ycle in Study: Incl HST	

MARKHAM

2024 PROJECT FUNDI	ING REQUEST FO	RM NI	umber:	24235
Project Name: German Mills Meadow - Equipment Main	ntenance	Project (Cost: _	\$239,100
			Repair	Replace
Commission: Community Services Department: Operations - Utility & ROW Project Mgr: Negar Mahmoudi	U Category:	seful Life: Minor	2	Pre Approval:
Ward(s): $CW \square 1 \checkmark 2 \square 3 \square 4 \square$	Cost Validation:	Recent awa	rds	
$5 \square 6 \square 7 \square 8 \square$ ETAILED DESCRIPTION (SCOPE OF PROJECT):	Requirement Validation: ITS Involved Project: Is I		_	t

Repairs to components of the gas collection and environmental monitoring systems at the German Mills Meadow and Natural Habitat to ensure that the appropriate protection is provided to the abutting residential properties and German Mills Creek.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This project is for the maintenance of the equipment that per
Cost/Quote:	195,000	0	the monitoring. In 2024 the gas collection system and draina
Internal Charges:	0	0	needs to be upgraded. A consultant will be hired to inspect a
External Consulting:	40,000	0	assess the monitoring equipment and recommend rehabilitati work that is required. Consulting is 25% of rehabilitation wo
Contingency %: 0	0	0	This program is required every two years.
Sub Total:	235,000	0	
HST Impact:	4,136	0	
Total Project Cost:	239,100	0	

SOURCE(S) OF FUNDING (\$)			Compone	ents			F 4
Funding Type	<u>Budget</u>	Equip Maintenance	Gas Collection/Drainage			<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	239,100	119,100	120,000	0	0	239,100	0
TOTAL FUNDING	239,100				-	239,100	0

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

<u>DCA</u>			Amount in	<u>Life Cycle</u>		
Name	Year	Amount	Study	Amount in Study: 119,300		
				Amount Incl HST 239,100		
				Year in the study 2024		
CA and/or Life Cycle: Explain if there is a change	in the year ar	nd/or cost:				

Environmental Services -Infrastructure

ING REQUEST FOR	RM Nu	imber:	24236
ion	Project C	Cost:	\$70,500
		Studies	s/Pilot Programs
IJ	seful Life [.]	0	Pre Approval:
		0	rie rippio tuit
Category:	Minor		
Cost Validation:	Recent away	rds	_
-	0	-	ce
ITS Involved Project: Is IT	S Consulted	1? □	
	ion U Category: Cost Validation: Requirement Validation:	ion Useful Life: Category: Minor Cost Validation: Recent awar Requirement Validation: Legislative of	ion Number: Number: Project Cost: Studies Useful Life: 0

Hire a consultant to inspect vehicular bridges (11), pedestrian bridges (35), culverts (70) and boardwalks (10) as mandated by Public Transportation and Highway Act - Regulation 104/97 to ensure public safety. A total of 126 structures will be inspected out of 365 in 2024. This program ensures inspections take place within the regulated timelines.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PI	ROJECT COSTS (\$)	<u>2024</u>	Future Phases
	Cost/Quote:	0	0
	Internal Charges:	0	0
	External Consulting:	69,300	0
	Contingency %: 0	0	0
	Sub Total:	69,300	0
	HST Impact:	1,220	0
	Total Project Cost:	70,500	0

SOURCE(S) OF FUNDING (<u>\$)</u>		Compone	ents			F 4
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	70,500	0	0	0	0	0	0
TOTAL FUNDING	70,500				=	0	0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 70,500
		Amount Incl HST 70,500
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explair	n if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cost:	Year in the study 2024

MARKHAM 2024 PROJECT FUND	ING REQUEST FO	RM Num	iber:	24237
Project Name: Streetlights - Miscellaneous Requests		Project Cos	st:	\$101,900
]	New As	set/Expansion
Commission: Community Services	Ţ	Iseful Life: 6	50 I	Pre Approval:
Department: ES - Infrastructure	-			Te Appiovai. —
Project Mgr: Michael Manserra	Category:	Major		
Ward(s): CW \checkmark 1 2 3 4	Cost Validation:	Recent awards	s	
	Requirement Validation:	Other(specify	in Note	s)
$5 \square 6 \square 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulted?		

Based on photometric analysis and evaluation against lighting level standards IES -RP8-14 (Illuminating Engineering Society) by Staff, the City will install new streetlights at the locations, where lighting is deficient. Note that the lighting levels requirement varies depending on road type and pedestrian activity.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This is an annual program. Streetlights requests from the resid
Cost/Quote:	100,100	0	are reviewed for justification and are implemented to improve
Internal Charges:	0	0	lighting levels in older areas. 3 year average: \$92K
External Consulting:	0	0	Locations will be prioritized based on photometric analysis an
Contingency %: 0	0	0	budget request is to install approx. 15-18 new poles with LED fixtures.
Sub Total:	100,100	0	Unit cost is consistent with recent award plus inflation.
HST Impact:	1,762	0	
Total Project Cost:	101,900	0	

SOURCE(S) OF FUNDING	f (\$)		Compone	ents			Futuro
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Tax	101,900	0	0	0	0	0	0
TOTAL FUNDING	101,900					0	0

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

DCA	Am	ount in <u>]</u>	<u>Life Cycle</u>	
Name	Year Amount S	tudy A	mount in Study:	
			mount Incl HST	
		Y	ear in the study	
DCA and/or Life Cycle: Explain if t	here is a change in the year and/or cost:			
DCA and/or Life Cycle: Explain if t	here is a change in the year and/or cost:			

ARKHAM 2024 PROJECT FUNL	DING REQUEST FORM Number: 24238
Project Name: Streetlights - Poles Replacement	Project Cost: \$134,500
	Repair/Replace
Commission: Community Services	Useful Life: 60 Pre Approval
Department: <u>ES - Infrastructure</u> Project Mgr: Michael Manserra	Category: Major
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Recent awards
	Requirement Validation: Condition assessment
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This is an annual program. City's current inventory is 25,647 p
Cost/Quote:	132,200	0	Based on the age of streetlight poles, staff estimates the followi
Internal Charges:	0	0	as part of this request:
External Consulting:	0	0	• 25-30 pole replacements
Contingency %: 0	0	0	• 10-20 minor pole rehabilitation work The above quantity is based on the results of the streetlight pole
Sub Total:	132,200	0	condition inspection project in 2023. Unit cost is consistent with
HST Impact:	2,327	0	previous award plus inflation. Amount requested is consistent w 2023 Life Cycle Reserve Study Update.
Total Project Cost:	134,500	0	2023 Life Cycle Reserve Study Optiate.

SOURCE(S) OF FUNDING	(\$)		Compone	ents			E. d.
<u>Funding Type</u>	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	134,500	0	0	0	0	0	0
TOTAL FUNDING	134,500					0	0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 134,500
		Amount Incl HST 134,500
		Year in the study 2024

Project Name: Streetlights Underground Cable Replacement Commission: Community Services Department: ES - Infrastructure Project Mgr: Michael Manserra Ward(s): CW 1 2 3 4 Construction: Requirement Validation: Requirement Validation: Condition:	Number	: 24239
Department: ES - Infrastructure Useful Project Mgr: Michael Manserra Category: Majo Ward(s): CW 1 2 3 4 Requirement Validation: Rece Requirement Validation: Cond Cond Cond Cond	ject Cost: Repa	\$2,146,100 ir/Replace
Ward(s): CW 1 1 2 2 3 4 C Cost Validation: Rece Requirement Validation: Cond	Life: 55	Pre Approval:
$5 \square 6 \square 7 \square 8 \checkmark$ ETAILED DESCRIPTION (SCOPE OF PROJECT):	tion assessme	ent

DJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The service life of existing streetlight underground cable is
Cost/Quote:	1,843,670	0	estimated to be 55 years. Approximately, 6.5% of underground
Internal Charges:	0	0	cables have been replaced to date.
External Consulting:	265,330	0	100 km of streetlight cable was inspected in 2020. The recommendation from this condition inspection report was to
Contingency %: 0	0	0	replace 24 km cable within next 5 years.
Sub Total:	2,109,000	0	- 15 km will be replaced through this budget request
HST Impact:	37,118	0	- 9 km will be replaced in 2025 & 2026. Unit cost is consistent with recent award plus inflation.
Total Project Cost:	2,146,100	0	one cost is consistent with recent award plus initiation.

SOURCE(S) OF FUNDING	(\$)		Compone	ents			Ef
Funding Type	<u>Budget</u>	Design + CA	Construction			TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	2,146,100	270,000	1,876,100	0	0	2,146,100	0
TOTAL FUNDING	2,146,100					2,146,100	0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 2,146,100
		Amount Incl HST 2,146,100
		Year in the study 2024
DCA and/or Life Cycle: Explain if there is a		





MARKHAM 2024 PROJECT FU	NDING REQUEST FORM Number: 24240
Project Name: Structures Minor Rehabilitation (8 s	
	Repair/Replace
Commission: <u>Community Services</u>	Useful Life: 15 Pre Approval:
Department: ES - Infrastructure	
Project Mgr: Hossein Sharif	Category: Major
	Cost Validation: Recent awards
Ward(s): $CW \square 1 \checkmark 2 \checkmark 3 \square 4 \square$	Requirement Validation: Condition assessment
5 6 🖌 7 🖌 8 🖌	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box
This project involves the minor rehabilitation right of 7 culv bridge (P057). Refer to attached map for location.	erts (C004, C26A, C038, C086, C090,C106, C137) and 1 pedestrian

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES
Cost/Quote:	229,500	0	This project involves the minor rehabilitation of 8 stru
Cost Quote.	229,300	0	Amount requested is consistent with 2023 Life Cycle R
Internal Charges:	0	0	study update.
External Consulting:	0	0	
Contingency %: 0	0	0	
Sub Total:	229,500	0	
HST Impact:	4,039	0	
Total Project Cost:	233,500	0	

SOURCE(S) OF FUNDING (\$)		Compone	ents			Fastan
Funding Type	<u>Budget</u>	Construction				TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	233,500	233,500	0	0	0	233,500	0
TOTAL FUNDING	233,500				=	233,500	0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 233,500
		Amount Incl HST 233,500
		Year in the study 2024
DCA and/or Life Cycle: Explain if ther	re is a change in the year and/or cost.	

(Culverts #C004, C026A, C038, C086, C090, C106, C137, and Pedestrian Bridge P057)

ES - Infrastructure (2024)

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(Culverts #C004, C026A, C038, C086, C090, C106, C137, and Pedestrian Bridge P057)

ES - Infrastructure (2024)



422

(Culverts #C004, C026A, C038, C086, C090, C106, C137, and Pedestrian Bridge P057)

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Church

View Ave

Sir Wilfrid

Laurier PES

John Payne Park

C090

Vine Cliff Pond

Harry

Swingler Dr

Artisan Trail

Winter

Creek Cres

River

Valley Cres

.lames

Joyce Dr

Atlas Peak Dr

Pillar Rock Cres

Larkmead Cres

Adastra Cres

Haywood Dr

Joseph

Ellerby Park



Beaverbrae D

Sequoia Grove Dr



Crystan Ave

George Heenan St

Donald Buttress Blvd

Woodbine Ave

Ernest

Osprey Dr Robert

Moulton

Gate

Quinton Dr

Brumwell

Anthony

Roman Ave

Lane

Alsop Ave

20

Betty Roman

Blvd East

Jembridge

Sir John A

Macdonald PES

Lebarr Rd

Ibale Dr

Ann

Frisby Park

423 ES - Infrastructure (2024)

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ES - Infrastructure (2024)

(Culverts #C004, C026A, C038, C086, C090, C106, C137, and Pedestrian Bridge P057)

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MARKHAM 2024 PROJECT FUNL)ING REQUEST FO)RM Nt	umber:	24241
Project Name: Structures Drogrom Full Time Staff		Project C	Cost:	\$154,400
Project Name: Structures Program-Full-Time Staff			Studie	s/Pilot Programs
Commission: Community Services Department: ES - Infrastructure		Useful Life:	0	Pre Approval:
Project Mgr: Paul Ahn	Category:			
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation:	: Other(speci	fy in Not	tes)
	Requirement Validation:	Other(specif	fy in Not	tes)
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is	ITS Consulted	d? 🗆	
This funds one Senior Project Engineer (existing Permanent Full	l-Time staff) position.			

SOURCE(S) OF FUNDING (Compon	ents			F 4	
<u>Funding Type</u>	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	154,400	0	0	0	0	0	0
TOTAL FUNDING	154,400					0	0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 152,100
		Amount Incl HST 154,400
		Year in the study 2024
DCA and/or Life Cycle: Explain if there		

MARKHAM 2024 PROJECT FUNL	DING REQUEST FO	N N	umber:	24242
Project Name: Structures Rehabilitation (4 Structures)	- Design & Const.	Project	Cost:	\$2,367,800
			Repair	/Replace
Commission: Community Services Department: ES - Infrastructure	_	Jseful Life:	15	Pre Approval:
Project Mgr: Hossein Sharif	Category:			
Ward(s): $CW \square 1 \square 2 \checkmark 3 \checkmark 4 \checkmark$	Cost Validation:			
5 6 7 8	Requirement Validation: ITS Involved Project: Is I			nt
ETAILED DESCRIPTION (SCOPE OF PROJECT):		15 Consult		

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES This project includes rehabilitation of 4 str
Cost/Quote:	1,976,800	0	requested is consistent with 2023 Life Cycl
Internal Charges:	0	0	
External Consulting:	350,000	0	
Contingency %: 0	0	0	
Sub Total:	2,326,800	0	
HST Impact:	40,952	0	
Total Project Cost:	2,367,800	0	

SOURCE(S) OF FUNDING	<u> (\$)</u>		Compone	ents			Ef
Funding Type	<u>Budget</u>	Design + CA	Construction			TOTAL	<u>Future</u> <u>Phases</u>
Gas Tax	2,367,800	356,200	2,011,600	0	0	2,367,800	0
TOTAL FUNDING	2,367,800					2,367,800	0

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

DCA	A	Amount in	<u>Life Cycle</u>	
Name	Year Amount	Study	Amount in Study:	2,367,800
			Amount Incl HST	2,367,800
			Year in the study	2024
OCA and/or Life Cycle: Explain if	there is a change in the year and/or cost:			
DCA and/or Life Cycle: Explain if	there is a change in the year and/or cost:			

Structures Rehabilitation (4 Structures) - Design & Const.

427 ES - Infrastructure (2024)

(Culverts #C049, C063, C066 and Storm Culvert SC16)

Page 1 of 2



Structures Rehabilitation (4 Structures) - Design & Const.

428 ES - Infrastructure (2024)

(Culverts #C049, C063, C066 and Storm Culvert SC16)

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2024 PROJECT FUNDING REQUEST FORM

nber: 24243

Derived Names City of D. L. (2.City of D.)	a , , ,	Project Cost:	\$934,100
Project Name:Structures Replacement (3 Structures) (3 Commission:Commission:Community ServicesDepartment:ES - InfrastructureProject Mgr:Hossein SharifWard(s): $CW \square 1 \checkmark 2 \square 3 \square 4 \square$ $5 \checkmark 6 \checkmark 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):		Jseful Life: 50 Major Recent awards Condition assessr	pair/Replace Pre Approval:
Replacement of 2 pedestrian bridges (P026 and P055) and 1 cul	vert (C222). See attached map	for locations.	
BUILDING MARKHAM'S FUTURE TOGETHER: Safe	& Sustainable Community		

NOTES **PROJECT COSTS (\$)** <u>2024</u> **Future Phases** This project includes replacement of 3 structures. Design was 892,900 0 Cost/Quote: carried out through 2022 Capital budget (\$316,900). This request is to fund construction and contract administration for these 3 0 Internal Charges: 0 structures which require replacement due to current condition **External Consulting:** 25,000 0 assessment. Amount requested is consistent with 2023 Life Cycle 0 Contingency %: 0 0 Reserve Study update. Sub Total: 917,900 0 HST Impact: 16,155 0 **Total Project Cost:** 934,100 0

SOURCE(S) OF FUNDING (\$)			Compon	ents			E
Funding Type	<u>Budget</u>	Construction	Contract Admin			TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	934,100	908,659	25,441	0	0	934,100	0
TOTAL FUNDING	934,100				=	934,100	0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 934,100
		Amount Incl HST 934,100
		Year in the study 2024
DCA and/or Life Cycle: Explain if there is	a a abanga in the year and/or cost	



Structures Rehabilitation - (3 Structures) Construction

(Pedestrian Bridge # P026, P055, Culvert # C222)





Q:Environmental Services)CAPITAL RIGHT OF WAYIDepartment Sharel00_GIS_Capital Planning102_Capital Projects/2024_Capital Projects/2024_Budget Maps/2024_Structures Rehabilitation (3 Structures)_Zoom.mxd

Environmental Services -Stormwater
MARKHAM 2024 PROJECT FUNL	DING REQUEST FORM Number: 24244
Project Name: Don Mills Channel SWM Pond - Constr	Project Cost: \$8,151,000
	New Asset/Expansion
Commission: Community Services	Useful Life: 100 Pre Approval:
Department: <u>ES - Stormwater</u> Project Mgr: Rob Muir	Category: Major
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Internal peer review
5 6 7 8 ₹	Requirement Validation: Other(specify in Notes)
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?
To construct a new stormwater management pond and associated	d structures to mitigate flooding in the Don Mills Channel area.

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Don Mills Channel flood control program was approved
Cost/Quote:	7,800,000	61,801,300	in June 2018.
Internal Charges:	0	0	 Total program cost: \$72 million. Funding source: Stormwater Fee. 40% of project cost (\$3.26 M) will be reimbursed through Disaster Mitigation and Adaptation Fund (DMAF) grant.
External Consulting:	210,000	0	
Contingency %: 0	0	0	
Sub Total:	8,010,000	61,801,300	Net cost to the City will be 60% (\$4.89 M)
HST Impact:	140,976	1,087,703	
Total Project Cost:	8,151,000	62,889,000	

SOURCE(S) OF FUNDING	OF FUNDING (\$) Components							
Funding Type	<u>Budget</u>	CA	Construction			TOTAL	<u>Future</u> <u>Phases</u>	
Infrastructure Grant	3,260,400	85,500	3,174,900	0	0	3,260,400	0	
Reserve Fund	4,890,600	128,200	4,762,400	0	0	4,890,600	62,889,000	
TOTAL FUNDING	8,151,000					8,151,000	62,889,000	

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

DCA Nama	Year Amount	Amount in	<u>Life Cycle</u>
Name	I cai Amount	Study	Amount in Study:
			Amount Incl HST
			Year in the study

MARKH	IAM	2024 PRO	DJECT FUNDI	ING REQUE	EST FORM	Nu	mber:	24245
Project Name:	Oil Grit S	eparators (OC	GS) - Inspection ar	nd Cleaning	Proj	ect C	-	\$133,800
0	O i	a :					Studie	s/Pilot Programs
Commission:	Community	Services			Useful L	ife:	0	Pre Approval:
Department:	ES - Stormy	water			Category: Minor			

Project Mgr: Roshanak Maleki	Category: Minor
Ward(s): cw ☑ 1 □ 2 □ 3 □ 4 □	Cost Validation: Recent awards
	Requirement Validation: Condition assessment
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?

OGS are structures consisting of one or more chambers that remove sediment, screen debris, and separate oil from stormwater run-off prior to stormwater being discharged downstream. The accumulated pollutants need to be removed as part of a regular maintenance program. The inspection program will identify the OGS that require cleaning to monitor and establish future frequency.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

SOURCE(S) OF FUNDING (\$)			Compon	ents			Enderse
<u>Funding Type</u>	<u>Budget</u>	Inspection	Cleaning			TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	133,800	22,387	111,413	0	0	133,800	0
TOTAL FUNDING	133,800				=	133,800	0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 133,800
		Amount Incl HST 133,800
		Year in the study 2024
DCA and/or Life Cycle: Explain if there	is a change in the year and, or costi	

2024 PROJECT FUNDING REQUEST FORM

Number: 24246

		Project C	lost:	\$15,400
Project Name: Rain Gauge Replacement				
			Repar	r/Replace
Commission: <u>Community Services</u>	U	Jseful Life:	12	Pre Approval:
Department: ES - Stormwater	-			II III
Project Mgr: Jack Zi	Category:	Minor		
Ward(s): $CW \square 1 \square 2 \square 3 \checkmark 4 \square$	Cost Validation:	Third party	estimate	2
	Requirement Validation:	Other(specia	fy in No	tes)
5 6 7 7 8	ITS Involved Project: Is I'	TS Consulted	1?	
DETAILED DESCRIPTION (SCOPE OF PROJECT):				
A rain gauge is an essential device for measuring and monitoring r	ainfall events. The collected	data will sup	port va	rious applications in
Hydrology and Hydraulic modelling, Climate Change Research ar	nd Infrastructure planning, en	habling the d	evelopm	nent of resilient
infrastructure systems. This request is to replace 4 rain gauges (RC	1 0	0	-	

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The City has 13 rain gauges in inventory. 4 rain gauges need to be
Cost/Quote:	15,100	0	replaced due to condition assessment. They are located as
Internal Charges:	0	0	follows:
External Consulting:	0	0	RG07 - Fire Hall #94; RG10 - Rouge River Community Centre;
Contingency %: 0	0	0	RG12 - Parklands Public School; and
Sub Total:	15,100	0	RG13 - 1091 Warden Avenue.
HST Impact:	266	0	
Total Project Cost:	15,400	0	
	<u>; (\$)</u>		Components Future

Funding Type	Budget					TOTAL	<u>Phases</u>
Operating Funded Life Cycle	15,400	0	0	0	0	0	0
TOTAL FUNDING	15,400					0	0

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

DCA/LIFE CYCLE DETAILS

ARKHAM

DCA	Amount in	Life Cycle
Name	Year Amount Study	Amount in Study: 15,400
		Amount Incl HST 15,400
		Year in the study 2024
DCA and/or Life Cycle: Explain if there is a c		



MARKHAM 2024 PROJECT FUNDI	NG REQUEST FORM Number: 24247
Project Name: Storm and Sanitary Sewer CCTV Inspecti	on Project Cost: \$570,000
Commission: Community Services	Studies/Pilot Programs
Department: ES - Stormwater	Useful Life: 0 Pre Approval:
Project Mgr: Philip Zhang	Category: Major
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Recent awards
5 6 7 8 ≥	Requirement Validation: Condition assessment
5 □ 6 □ 7 □ 8 M DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?

Program to determine the condition of the storm and sanitary sewers using closed circuit television (CCTV) inspection. Pipe rehabilitation/ replacement programs will be developed based on the condition inspection results. 2024 Program includes: a) 78 km storm sewers out of total 943 km (Life Cycle funded); b) 74 km sanitary sewers out of total 934 km (Waterworks funded). Map is attached.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES This is an annual program (10 year cycle) - Phase 6 of 10.
Cost/Quote:	497,200	2,779,750	Program will be re-evaluated at the end of the 10 year cycle
Internal Charges:	0	0	External consultant is retained to identify deficiencies on CO
External Consulting:	62,975	0	inspection. Unit cost is consistent with recent award.
Contingency %: 0	0	0	
Sub Total:	560,175	2,779,750	
HST Impact:	9,859	48,924	
Total Project Cost:	570,000	2,828,700	

SOURCE(S)	OF FUNDING	(\$)

Funding Type	<u>Budget</u>	Contractor	<u>Consultant</u>			TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	200,600	171,090	29,510	0	0	200,600	1,019,400
Waterworks	369,400	334,843	34,557	0	0	369,400	1,809,300
TOTAL FUNDING	570,000				-	570,000	2,828,700

Components

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

DCA/LIFE CYCLE DETAILS

DCA			Amount in	Life Cycle	
Name	Year	Amount	Study	Amount in Study:	200,600
				Amount Incl HST	200,600
				Year in the study	2024

\$200,600 is funded through Storm Lifecycle

\$369,400 is funded through Sanitary Lifecycle (Water Rate)

MARKHAM STORM AND SANITARY SEWER CCTV INSPECTION

2024 Sanitary & Storm Sewers CCTV Inspection



Program Name: Storm and Sanitary CCTV Inspection

Department: Environmental Services

Phase #	Inspection year	Project #	Past	2024	Future	Total	Comments
Phase 1	2019	#19225 / #19248/ 760-510-5300	\$524,003			\$524,003	52 km storm; 52 km sanitary; 1,400 laterals
Phase 2	2020	#20237	\$1,585,200			\$1,585,200	90 km storm; 91 km sanitary; 6,946 laterals
Phase 3	2021	#21149	\$652,800			\$652,800	80 km storm; 94 km sanitary
Phase 4	2022	#22186	\$625,800			\$625,800	82.3 km storm; 80.8 km sanitary
Phase 5	2023	#23027	\$756,600			\$756,600	107 km storm; 106 km sanitary
Phase 6	2024	#24247 (This request)		\$570,000		\$570,000	74 km storm; 78 km sanitary
Phase 7 to Phase 10	2025 - 2028				\$2,828,700	\$2,828,700	
Total Cost			\$4,144,403	\$570,000	\$2,828,700	\$7,543,103	

Description of Program

Program to determine the condition of the storm and sanitary sewers using closed circuit television (CCTV) inspection

What was completed in the past

4 phases have been completed or in progress (out of total 10 phases):	\$4,144,403

Current ask

CCTV inspection of 78 km storm sewers (out of 943 km) and 74 km sanitary sewers (out of 934 km):

Future Phases

Phases 7 to 10 between 2025 - 2028: \$2,828,700

Related 2024 Project(s)

Sanitary Sewer Rehabili	tation (#24xxx):	\$ 923,100
Мар	Attached	

\$570,000

2024 PROJECT FUND		Number:	24248
Project Name: Storm Sewer Pipes - Rehabilitation		Project Cost:	\$417,300
Commission: Community Services Department: ES - Stormwater Project Mgr: Philip Zhang	L Category:	Jseful Life: 25	r/Replace Pre Approval: [
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$ ETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: Requirement Validation: ITS Involved Project: Is I	Condition assessme	nt

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Storm sewer pipe rehabilitation is conducted once every two years.
Cost/Quote:	360,050	0	Approx. 80-90 km of storm sewers are inspected every year out of
Internal Charges:	0	0	943 km (10 year cycle). Based on the video inspections, deficient
External Consulting:	50,000	0	pipe sections are identified and rehabilitated. There is no substantial backlog. Storm sewer pipes are in a state of
Contingency %: 0	0	0	good repair. Amount requested is consistent with 2023 Life Cycle
Sub Total:	410,050	0	Reserve Study Update.
HST Impact:	7,217	0	
Total Project Cost:	417,300	0	

SOURCE(S) OF FUNDING (\$)			Compon	ents			D 4
<u>Funding Type</u>	<u>Budget</u>	Consulting	Construction			TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	417,300	50,900	366,400	0	0	417,300	0
TOTAL FUNDING	417,300				-	417,300	0

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

DCA	Amount in	<u>Life Cycle</u>
lame	Year Amount Study	Amount in Study: 417,300
		Amount Incl HST 417,300
		Year in the study 2024

2007		Project Cos	st:	\$59,500
Project Name: Storm Sewer Pipes Emergency Repairs		I	Repair	/Replace
Commission: Community Services Department: ES - Stormwater	τ	Useful Life: 0)	Pre Approval:
Project Mgr: Edgar Tovilla	Category:	Annual		
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$	Cost Validation:	Internal peer re	eview	
5 6 7 8	Requirement Validation:	Other(specify	in Not	es)
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulted?		

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This is an annual program to conduct emergency repair of sto
Cost/Quote:	58,471	0	sewer pipes on as required basis.
Internal Charges:	0	0	Budget amount is based on previous 3 years average spent.
External Consulting:	0	0	Previously this component was included as Emergency Repair
Contingency %: 0	0	0	under Roads Operations.
Sub Total:	58,471	0	
HST Impact:	1,029	0	
Total Project Cost:	59,500	0	

SOURCE(S) OF FUNDING (<u>(\$)</u>		Compone	ents			Entuno
<u>Funding Type</u>	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	59,500	0	0	0	0	0	0
TOTAL FUNDING	59,500					0	0

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

<u>DCA</u>	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 59,500
		Amount Incl HST 59,500
DCA and/or Life Cycles Explain	if there is a change in the year and/or cost.	Year in the study 2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or cost:	Year in the study 2024

2024 PROJECT FUNDING REQUEST FORM

umber: 24250

MARKHAM				NU	imber:	24250
Project Name: Stormwater Underground Tanks -		nd Tanks - Condit	ion Inspection	Project Cost:		\$81,400
	ter Undergrou			Repair/Replace		
Commission: Community	y Services		T	Useful Life:	0	Pre Approval:
Department: ES - Storm	water				Ū	rie rippio (ul.
Project Mgr: <u>Rob Muir</u>			Category:			
Ward(s): $_{CW} \square _{1} \square$	2 3 2 4]	Cost Validation:	Recent awa	rds	
	6 7]	Requirement Validation:	Other(speci	fy in No	tes)
DETAILED DESCRIPTIO			ITS Involved Project: Is 1	ITS Consulted	d? □	
Condition inspection of stor required rehabilitation. Refe BUILDING MARKHAM	r to attached loca	ation map.	ine the accumulated sedime Sustainable Community	ent level, conc	lition of	the tanks, and
PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES	0.751		1.4.
Cost/Quote:	0	0	Total assumed inventory: inspections of four newly			
Internal Charges:	0	0	of condition inspection is		0	1
External Consulting:	80,000	0				
Contingency %: 0	0	0				
Sub Total:	80,000	0				
HST Impact:	1,408	0				

SOURCE(S) OF FUNDING (\$) Components <u>Future</u> Funding Type Phases **Budget** TOTAL Operating Funded Life Cycle 81,400 0 0 0 0 0 0 0 **TOTAL FUNDING** 81,400 0

0

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

DCA/LIFE CYCLE DETAILS

Total Project Cost:

81,400

DCA		Amount in	<u>Life Cycle</u>	
Name	Year Amount	Study	Amount in Study:	54,000
			Amount Incl HST	81,400
			Year in the study	2024
DCA and/or Life Cycle: Explain if there is a Cost was increased based on recent quotes.				



Stormwater Underground Tanks - Condition Inspection



2024 PROJECT FUNI	DING REQUEST FORM	umber:	24251
Project Name: Swan Lake Chemical Treatment	Project (Cost:	\$162,000
		Studies	s/Pilot Programs
Commission: Community Services	Useful Life:	3	Pre Approval:
Department: ES - Stormwater		5	rie rippiovai.
Project Mgr: Zahra Parhizgari	Category: Major		
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation: Internal pee	er review	
5 ✓ 6 7 8	Requirement Validation: Condition a	ssessmen	t
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted	d? 🗆	
To carry out chemical treatment of Swan Lake, including project	t planning, contract administration, chemica	al treatme	ent application and

expanded monitoring after treatment is completed.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES Chemical treatment program is required to improve t
Cost/Quote:	109,100	0	quality at Swan Lake. Frequency of the program is eve
Internal Charges:	0	0	per approved Council report dated Nov 16, 2021.
External Consulting:	50,100	0	
Contingency %: 0	0	0	
Sub Total:	159,200	0	
HST Impact:	2,802	0	
Total Project Cost:	162,000	0	

SOURCE(S) OF FUNDING (\$)		Components						
Funding Type	<u>Budget</u>	Consulting	Construction			TOTAL	<u>Future</u> <u>Phases</u>	
Operating Funded Life Cycle	162,000	50,980	111,020	0	0	162,000	0	
TOTAL FUNDING	162,000				=	162,000	0	

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 162,000
		Amount Incl HST 162,000
		Year in the study 2024
DCA and/or Life Cycle: Explain if there	is a change in the year and/or cost:	

MARKHAM 2024 PROJECT FUND	ING REQUEST FO	RM N	umber:	24252
Project Name: Technology Assessment for Chloride Trea	atmant - Swan I aka	Project	Cost:	\$50,900
	atment - Swan Lake		Studies	s/Pilot Programs
Commission: <u>Community Services</u> Department: ES - Stormwater	Ŭ	seful Life:	0	Pre Approval:
Project Mgr: Zahra Parhizgari	Category:	Major		
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Cost Validation:	Internal pe	er review	
5 ✓ 6 7 8	Requirement Validation:	Other(spec	ify in Not	es)
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I'	TS Consulte	ed?	
To carry out a pilot project using bichar for chloride treatment at S	Swan Lake, including project	planning, te	esting and	evaluation.

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This budget request is to assess and evaluate various technologic
Cost/Quote:	0	0	for chloride treatment at Swan Lake, as per Nov 16, 2021 appro
Internal Charges:	0	0	Council Report. Findings may be used to identify quality
External Consulting:	50,000	0	improvement methods requested by the public/ stakeholders.
Contingency %: 0	0	0	
Sub Total:	50,000	0	
HST Impact:	880	0	
Total Project Cost:	50,900	0	
_			

SOURCE(S) OF FUNDING (\$)		Components					
<u>Funding Type</u>	Budget					TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	50,900	0	0	0	0	0	0
TOTAL FUNDING	50,900					0	0

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

Year	Amount	Study	Amount in Study:	71,200
			Amount Incl HST	50,900
			Year in the study	2024
•		Report. 2024 Lit	e cycle study will be upd	ated to
	•	year and/or cost:	-	Year in the study

MARKHAM 2024 PROJECT FUNDIN	NG REQUEST FORM Number:	24253
Project Name: Water Quality Improvements	Project Cost:	\$77,300
	Studie	es/Pilot Programs
Commission: Community Services	Useful Life: 0	Pre Approval:
Department: <u>ES - Stormwater</u> Project Mgr: Zahra Parhizgari	Category: Major	
Ward(s): CW \square 1 \square 2 \square 3 \checkmark 4 \square	Cost Validation: Internal peer review	1
5 🗹 6 🗌 7 🗌 8	Requirement Validation: Other(specify in No	tes)
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?	

This project is to carry out the geese control program at Swan Lake (Ward 5) and Toogood Pond (Ward 3). This program is intended to manage recurring water quality complaints and to reduce nutrient loading into Swan Lake and Toogood Pond.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This is an annual program to carry out geese control at
Cost/Quote:	76,000	0	and Toogood Pond.
Internal Charges:	0	0	Program has been enhanced on geese management and
External Consulting:	0	0	removal as per Markham Sub Committee report dated N 2021 which was approved by the Council.
Contingency %: 0	0	0	Requirement Validation: To protect the water quality.
Sub Total:	76,000	0	
HST Impact:	1,338	0	
Total Project Cost:	77,300	0	

SOURCE(S) OF FUNDING	(\$)		Compon	ents			Enturo
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	77,300	0	0	0	0	0	0
TOTAL FUNDING	77,300					0	0

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

Year the year a	Amount	 Amount in Study: Amount Incl HST Year in the study	77,300 77,300 2024
the vear a			
the vear a		Year in the study	2024
the vear a			

		Project Cost:	\$31,000
Project Name: Water Quality Monitoring at Swan Lak	e	Stuc	lies/Pilot Programs
Commission: Community Services Department: ES - Stormwater	_	Jseful Life: 0	Pre Approval:
Project Mgr: Zahra Parhizgari	Category: Cost Validation:		
Ward(s): $CW \square 1 \square 2 \square 3 \square 4 \square$	Requirement Validation:		Notes)
$5 \checkmark 6 \sqcup 7 \sqcup 8 \sqcup$ ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulted?	

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Requirement: In June 2020, Council approved continuation of
Cost/Quote:	0	0	monitoring at Swan Lake.
Internal Charges: External Consulting:	0 30.500	0 0	Unit cost is consistent with recent budget plus inflation. Amount requested is consistent with 2023 Life Cycle Reserve Study Upda
Contingency %: 0	0	0	
Sub Total:	30,500	0	
HST Impact:	537	0	
Total Project Cost:	31,000	0	

SOURCE(S) OF FUNDING	(\$)		Compone	ents			F 4
<u>Funding Type</u>	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	31,000	0	0	0	0	0	0
TOTAL FUNDING	31,000				=	0	0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 31,000
		Amount Incl HST 31,000
		Year in the study 2024
DCA and/or Life Cycle: Explain if there is a		

2024 PROJECT FUNDING REQUEST FORM

MARKHAM	2024 PROJ	ECT FUNDL	NG REQU	UEST FOR	RM Nun	nber:	24	1255
Project Name: Wet SWA	A Dan d Cleaning	450 8- 4 7 1 Cor			Project Co	st:	\$1,02	3,600
Project Name: Wet SWN		# 50 & #71 - Cor	istr. & CA			Repair/	Replac	e
Commission: <u>Community</u>				Us	eful Life: 2	20	Pre Ap	proval: 🗆
Department: <u>ES - Storm</u>				Category: 1	Major			
Project Mgr: <u>Timothy N</u>	-		Cos	st Validation:	Recent award	s		
	2 □ 3 □ 4 □] 6 ✔ 7 □ 8 □		Requiremen	t Validation: I	Legislative co	mplian	ce	
∟ 5 DETAILED DESCRIPTIO			ITS Involve	d Project: Is IT	S Consulted?			
Pond sediment cleaning for level: 70% and Pond #71: G SWM Ponds require mainte sediment is above regulatory control function of the pond BUILDING MARKHAM	ilenhaven Pond (Wa nance to function ef y limits (varies dependent is maintained.	ard 6) with current s ficiently. Sediment ending on the pond of	ediment level levels need to	of 52%. Refer be monitored a need to be clea	to attached lo and when the	cation percent	map. age of	accumulat
				-				
PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Total invent	ory: 70 wet poi	nds			
Cost/Quote:	935,900	0	Requiremen	t Validation: C	ondition asses			
Internal Charges:	0	0		(Section 53, On is responsible for				
External Consulting:	70,000	0	ponds while	ES is responsi	ble for inspec	tion, se	diment	cleaning,
Contingency %: 0	0	0		n and flood cor award plus infla				
Sub Total:	1,005,900	0		a administration				
HST Impact: 	17,704 1,023,600		-					
	1,025,000	0						
SOURCE(S) OF FUNDING	<u> (\$)</u>		Comp	onents				Future
Funding Type	<u>Budget</u>	Construction	<u>CA</u>			<u>TO</u>	<u>TAL</u>	Phases
Gas Tax	1,023,600	952,368	71,232	0	0	1,023,	600	
TOTAL FUNDING	1,023,600					1,023	,600	
OPERATING BUDGET I DCA/LIFE CYCLE DETA	<u>MPACT</u>	sonnel Non Per \$0 \$0		evenues I \$0	Expenditures \$(nues)	
DCA				Amount in	Life Cy	vcle		
Name		Yea	r Amount	Study	Amount		v· 1	,194,900
					Amount			,023,600
					Year in			2024
DCA and/or Life Cuele	. Evaloin if there is	a abanca in the year	n and/an agate					
DCA and/or Life Cycle Total cost is \$1,194,900 \$1,023,600 is for Wet S) WM Pond - Sedime		#71 Construc	tion - This Req	uest			

MARKHAM

Wet SWM Pond Cleaning ID#50 & #71 - Construction



449

2024 PROJECT FUNDING REQUEST FORM

Number: 24256

Decisest Names, MI & CHARD LOL . ID #55.9. #60	D '	Project Cost:	\$114,200
Project Name: Wet SWM Pond Cleaning ID #55 & #60 ·	· Design	Repa	ir/Replace
Commission: <u>Community Services</u> Department: <u>ES - Stormwater</u>	t	Jseful Life: 20	Pre Approval:
Project Mgr: Timothy Ng	Category:	Major	
Ward(s): $CW \square 1 \square 2 \square 3 \checkmark 4 \square$	Cost Validation:	Recent awards	
5 □ 6 □ 7 ☑ 8 □	Requirement Validation:		ance
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I		

Design for sediment cleaning and maintenance of 2 stormwater management (SWM) ponds: Pond #55: Lemsford Drive Pond (Ward 7) with current sediment level: 54% and Pond #60: South Unionville Pond (Ward 3) with current sediment level of 90%. Refer to attached location map.

SWM Ponds require maintenance to function efficiently. Sediment levels need to be monitored and when the percentage of accumulated sediment is above regulatory limits (varies depending on the pond design), ponds need to be cleaned to ensure that the approved quality control function of the pond is maintained.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Total inventory: 70 wet ponds
Cost/Quote:	0	0	Requirement Validation: Condition assessment & Legislative
Internal Charges:	0	0	compliance (Section 53, Ontario Water Resources Act). Operations is responsible for minor above ground maintenance
External Consulting:	112,200	2,341,980	ponds while ES is responsible for inspection, sediment cleani
Contingency %: 0	0	0	rehabilitation and flood control strategies. Unit cost is consist
Sub Total:	112,200	2,341,980	with recent award plus inflation. This request is for design.
HST Impact:	1,975	41,219	Construction and CA budget will be requested in 2025. Futur may change based on design outcome.
Total Project Cost:	114,200	2,383,200	hay change based on design outcome.

SOURCE(S) OF FUNDING (\$)

RKHAM

Funding Type	<u>Budget</u>	Design				TOTAL	<u>Future</u> <u>Phases</u>
Operating Funded Life Cycle	114,200	114,200	0	0	0	114,200	2,383,200
TOTAL FUNDING	114,200				=	114,200	2,383,200

Components

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

DCA/LIFE CYCLE DETAILS

<u>DCA</u>			Amount in	<u>Life Cycle</u>	
Name	Year	Amount	Study	Amount in Study:	1,194,900
				Amount Incl HST	114,200
				Year in the study	2024
DCA and/or Life Cycle: Explain if there is a chang	ge in the year a	nd/or cost:			

Total cost is \$1,194,900

\$114,200 is for Wet SWM Pond - Sediment Cleaning #55 & #60 Design - This Request

\$1,023,600 is for Wet SWM Pond - Sediment Cleaning #50 & #71 Construction

\$57,100 is for Wet SWM Pond - Sediment Cleaning #102 Design has been deferred.



Wet SWM Pond Cleaning ID #55 & #60 - Design



Date: 5/30/2023

Environmental Services -Waste

2024 PROJECT FUNI	DING REQUEST FORM Numl	ber: 24257
Project Name: Incremental Growth Related Waste Ma		: \$108,200
Commission: <u>Community Services</u> Department: <u>ES - Waste</u>	Useful Life: 0	Pre Approval:
Project Mgr: <u>Micheal Dipasquale</u>	Category:	
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$	Cost Validation: Requirement Validation:	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted?	

Development Charge (DC) funding for additional growth-related waste management vehicles purchased by contractor. If waste management was done in-house, these vehicles would need to be purchased by the City; this request is to obtain DC Funding to offset a portion of the capital cost included in the waste management contract paid through the operating budget

BUILDING MARKHAM'S FUTURE TOGETHER:

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES The value of the request is based on the percentage of col
Cost/Quote:	108,222	0	allocated to this growth related service, plus 2% annual in
Internal Charges:	0	0	
External Consulting:	0	0	
Contingency %: 0	0	0	
Sub Total:	108,222	0	
HST Impact:	0	0	
Total Project Cost:	108,200	0	

SOURCE(S) OF FUNDING (\$)				Eutuno			
<u>Funding Type</u>	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
DCA	108,200	0	0	0	0	0	0
TOTAL FUNDING	108,200					0	0

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

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

Environmental Services -Waterworks

2024 PROJECT FUNL	DING REQUEST FORM	Number:	24258
Project Name: Acoustic Equipment for Sewer Flushing		ect Cost:	\$40,100
Commission: <u>Community Services</u> Department: <u>ES - Waterworks</u> Project Mgr: Edgar Tovilla	Useful Li Category: Minor		Asset/Expansion Pre Approval:
Ward(s): $CW \swarrow 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$ DETAILED DESCRIPTION (SCOPE OF PROJECT):	Cost Validation: Other(s Requirement Validation: Conditi ITS Involved Project: Is ITS Cons	on assessmen	

This equipment is an acoustic assessment tool, which rapidly verifies through a sensor scanner the condition of sewer pipes based on sound transmitter and receiver. This equipment will be used to assess all sanitary sewers in the system on a new 10 year cycle program.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This equipment requires an annual software service fee of \$1,400.
Cost/Quote:	39,420	0	This equipment is propietary technology which will be sole sourced
Internal Charges:	0	0	with the manufacturer. This process will reduce the in house
External Consulting:	0	0	flushing needs by approximately 70% every year. These savings will allow City staff to increase our current service level of a 10
Contingency %: 0	0	0	year cycle to meet the industry best management practice of
Sub Total:	39,420	0	flushing the sewers every 5 years.
HST Impact:	694	0	
Total Project Cost:	40,100	0	

SOURCE(S) OF FUNDING	Components					Futuro	
<u>Funding Type</u>	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Waterworks	40,100	0	0	0	0	0	0
TOTAL FUNDING	40,100				=	0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)	
	\$0	\$1,400	\$0	\$1,400	

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

2024 PROJECT FUNI	DING REQUEST FORM Number: 24259	
Project Name: Calvert Pump Station - Immediate Proc	Project Cost: \$363,300	1
_	Repair/Replace	
Commission: Community Services	Useful Life: 10 Pre Approva	1.
Department: <u>ES - Waterworks</u> Project Mgr: Edgar Tovilla	Category: Minor	
Ward(s): $CW \square 1 \square 2 \checkmark 3 \square 4 \square$	Cost Validation: External peer review	
5 6 7 8	Requirement Validation: Condition assessment	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box	
Vaterworks has conducted a condition assessment for the Calve	rt Sanitary Pumping Station (SPS).	

The scope involves replacement of pumps, H&S and compliance priority aspects, process-mechanical, and process-electrical component replacement.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES A consultant report outlined the specific component replacemer
Cost/Quote:	357,064	0	For Calvert SPS, a replacement of process-mechanical
Internal Charges:	0	0	(valves/piping) to meet Fire Code requirements, and HVAC issu with process related equipment. Cost estimates were prepared b
External Consulting:	0	0	consultants.
Contingency %: 0	0	0	consultants.
Sub Total:	357,064	0	
HST Impact:	6,284	0	
Total Project Cost:	363,300	0	

SOURCE(S) OF FUNDING	; (\$)		Compon	ents			Future
Funding Type	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Waterworks	363,300	0	0	0	0	0	0
TOTAL FUNDING	363,300					0	0

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

DCA	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 675,700
		Amount Incl HST 363,300
		Year in the study 2024
DCA and/or Life Cycle: Explain if there is a Remainder of LC budget to be allocated for 0		

Project	t Cost:	\$150,000
ovements	Popuir	
Useful Life: Category: Minor		Pre Approval:
ent Validation: Condition	assessmen	
1	Category: Minor Cost Validation: External j ent Validation: Condition	Category: Minor Cost Validation: External peer review ent Validation: Condition assessmen ved Project: Is ITS Consulted?

459

Waterworks has conducted a condition assessment for the Calvert Sanitary Pumping Station (SPS). The scope involves replacement of non-process equipment such as building and structural maintenance, ventilation systems, plumbing, driveway repairs, and masonry

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases
Cost/Quote:	147,406	0
Internal Charges:	0	0
External Consulting:	0	0
Contingency %: 0	0	0
Sub Total:	147,406	0
HST Impact:	2,594	0
Total Project Cost:	150,000	0

SOURCE(S) OF FUNDING	i (\$)		Compone	ents			Futuro
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Waterworks	150,000	0	0	0	0	0	0
TOTAL FUNDING	150,000					0	0

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

DCA	Amount in	Life Cycle
Name	Year Amount Study	Amount in Study: 675,700
		Amount Incl HST 150,000
		Year in the study 2024
DCA and/or Life Cycle: Explain	n if there is a change in the year and/or cost:	
• •		
• •	n if there is a change in the year and/or cost: allocated for Calvert PS Process improvement and Millike	
• •		

NING REQUEST FO	<i>RM</i> Number:	: 24261
termains	Project Cost:	\$772,800
-	Jseful Life: 20	ir/Replace Pre Approval:
		otes)
	termains U Category: Cost Validation: Requirement Validation:	termains Project Cost:

Program to install corrosion protection material (anodes) to ductile iron (DI) watermains to reduce/ prevent corrosion. Renewal of corrosion protection is necessary to replace the depleted anodes (18-20 years old) and test stations. Map attached.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This is an annual program. Program commenced in 1993
Cost/Quote:	759,400	0	avg. of 120 watermain breaks/year which has reduced to
Internal Charges:	0	0	17 breaks/ year in last five years. Second cycle of ductile
External Consulting:	0	0	iron watermains corrosion protection commenced in 2014 This request is to install anodes for approx. 12.7 km lengt
Contingency %: 0	0	0	watermain (Refer to attached map). Unit cost is consistent
Sub Total:	759,400	0	recent award plus inflation.
HST Impact:	13,365	0	
Total Project Cost:	772,800	0	

SOURCE(S) OF FUNDING	<u> (\$)</u>		Compon	ents			Futuro
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Waterworks	772,800	0	0	0	0	0	0
TOTAL FUNDING	772,800					0	0

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

Amount in	<u>Life Cycle</u>
Year Amount Study	Amount in Study: 772,800
	Amount Incl HST 772,800
	Year in the study 2024
	Year Amount Amount in Study Study change in the year and/or cost:

MARKHAM Cathodic Protection of Ductile Iron Watermain



Path: Q:\Environmental Services\CAPITAL RIGHT OF WAY\Department Share\00_GIS_Capital Planning\02_Capital Projects\2024_Capital Projects\2024_Budget Maps\2024 CathodicProtection_CP09.mxd

Date: 2022-12-08

Program Name: Cathodic Protection of Iron Watermains

Department: Environmental Services

Year	Project #	Past	2024	Future	Total	Remarks
2019	#19241	\$427,800			\$427,800	10.4 km Cast Iron
2020	#20255	\$378,900			\$378,900	11 km Cast Iron
2021	#21167	\$493,100			\$493,100	15 km Ductile Iron
2022	#22201	\$444,000			\$444,000	12 km Ductile Iron
2023	#23035	\$995,100			\$995,100	20 km Ductile Iron
2024	#24261		\$772,800		\$772,700	12.7 km Ductile Iron
	(This Request)					
2025 Onwards				varies	varies	
Total		\$2,738,900	\$772,800			

Description of Program

Program to install corrosion protection material (anodes) to ductile iron (DI) watermains to reduce/ prevent corrosion. This is an annual program.

What was completed in the past

See above table

Current ask

772,800

Future Phases

Varies

Related 2024 Project(s)

N/A

Map Attached

MARKHAM 2024 PROJECT FUNI		Number:	
Design Names CLINE (D. L.		Project Cost:	\$621,000
Project Name: CI Watermain Rehabilitation - Design		Repai	r/Replace
Commission: Community Services	J	Useful Life: 0	Pre Approval:
Department: <u>ES - Waterworks</u> Project Mgr: Aaron Smith	Category:	Annual	11
Ward(s): $CW \square 1 \checkmark 2 \square 3 \square 4 \checkmark$	Cost Validation:	Recent awards	
	Requirement Validation:	Condition assessme	nt
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulted?	
Detailed design for relining of approx. 4 km of cast iron (CI) wa	termain. Refer to attached ma	p.	

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Total CI Watermain: 54.1 km. As part of the CI watermain
Cost/Quote: Internal Charges:	154,400	70,027,066 0	replacement program, 92% of aged CI watermain will be replac with PVC and 8% will be rehabilitated with CIPP liner. This
External Consulting: Contingency %: 0	458,500 0	0	 request includes CIPP rehabilitation design of: - 1.7 km on HWY 7 including Christman Court. - 2.3 km on Green Lane, Aileen Road, Guardsman Rd, Harlech
Sub Total: HST Impact:	612,900 8,070	70,027,066 1,232,476	areas. Construction and contract administration costs will be requested through 2025 Capital budget request.
Total Project Cost:	621,000	71,259,500	

SOURCE(S) OF FUNDING (\$)		Components					
Funding Type	<u>Budget</u>	Design	Internal staff			<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Waterworks	621,000	466,600	154,400	0	0	621,000	71,259,500
TOTAL FUNDING	621,000				=	621,000	71,259,500

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

Year in the study 2024
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



CI Watermain Rehabilitation - Design

Hwy 7 from Cosburn to Wootten Way N/ Christman Crt, Easement: Markham Rd to Reeve Dr



Path: Q:\Environmental Services\CAPITAL RIGHT OF WAY\Department Share\00_GIS_Capital Planning\02_Capital Projects\2024_Capital Projects\2024_Budget Maps\2024_Watermain CIPP Lining Hwy7_Area1.mxd

CI Watermain Rehabilitation - Design



Green Lane from Guardsman to Huntington Park/ Harlech Crt/ Guardsman Rd /Aileen Rd - (Between John St and Green Lane)



Path: Q:\Environmental Services\CAPITAL RIGHT OF WAY\Department Share\00_GIS_Capital Planning\02_Capital Projects\2024_Capital Projects\2024_Budget Maps\2025_Watermain CIPP Lining GreenLaneArea_2.mxd

Program Name: CI Watermain Rehabilitation / Replacement Department: Environmental Services

Component	Project #	Past	2024	Future	Total
Phase 1 (West Thornhill Ph 2D; McCowan Rd & Heritage St.; Old English Lane & Limcombe Dr Area)	#19245, #19243	\$13,624,200			\$13,624,200
Phase 2 (West Thornhill Ph 3A; Laureleaf Area / Milmar Crt Area)	#19242, #20257, #20258	\$12,034,200			\$12,034,200
Phase 3a (John St & 14th Ave end Section (Re-Lining))	#20256, #21168	\$7,060,400			\$7,060,400
Phase 3b (West Thornhill Area - Phase 3B)	#21170	\$4,036,300			\$4,036,300
Phase 4a (Gladiotor Rd / Bakerdale / Southdale / Bakerdale Area)	#21169, #22202	\$5,746,300			\$5,746,300
Phase 4b (West Thornhill Area - Phase 3C)	#22204	\$3,412,700			\$3,412,700
Phase 5a - Design (Drakefield Rd/ Banfield Ave./ Princess St. / Dublin St. Area)	#22203	\$297,200			\$297,200
Phase 5b - Construction (Drakefield Rd/ Banfield Ave./ Princess St. / Dublin St. Area)	#23036	\$9,811,400			\$9,811,400
Phase 6a - Design - Part of Highway 7 including Christman Ct.	#24262 (This Request)		\$621,000	\$6,065,800	\$6,684,600
Phase 7a - Design - Part of Green Lane, Aileen Road, Guardsman & Harlech					
Crt Area					
Phases 8 to Phase 15	N/A			\$65,193,743	\$65,193,743
Total		\$56,022,700	\$621,000	\$71,259,543	\$127,901,043

Description of Program

To replace aged cast iron watermain (current age: 58 years; service life: 60 years) with PVC watermain (service life: 90 years)

What was completed in the past

5 phases (Phase 1, 2, 3, 4 & 5) have been completed (out of 15 phases) since 2019 - \$56M

Current ask

Phase 6a - Design - Part of Highway 7 including Christman Ct.	\$621,000
Phase 7a - Design - Part of Green Lane, Aileen Road, Guardsman & Harlech Crt Area	
Future phases	
Phase 6a - Constr Part of Highway 7 including Christman Ct. Phase 7a - Constr Part of Green Lane, Aileen Road, Guardsman & Harlech	\$6M

\$65.2M \$71.2M

Related 2024 project(s)

Phase 8 to Phase 15 (2025- 2032)

None

Total

Мар

Attached

Phases	Project Status
Phase 1	Completed in 2019
Phase 2a (Design)	Completed in 2019
(Laureleaf Area / Milmar Crt & Alden Rd)	
Phase 2a (Construction)	Completed in 2020
(Laureleaf Area / Milmar Crt & Alden Rd)	
Phase 2b	Completed in 2020
(West Thornhill Area - Phase 3A: Morgan Ave - between Henderson ad	
Yonge; Clark Ave - between Hendwerson and Johnson)	
Phase 3a (Design)	Completed in 2020
(John St & 14th Ave end Section (Re-Lining))	
Phase 3a (Construction)	Completed in 2021
(John St & 14th Ave end Section (Re-Lining))	
Phase 3b (Construction)	Completed in 2021
(West Thornhill Area - Phase 3B: Johnson St, Vanwood Rd, St. Andreas Crt,	
Ida St, Dove Ln, Wiarton Crt)	
Phase 4a (Design)	Completed in 2021
(Gladiotor Rd / Bakerdale / Southdale / Bakerdale Area)	
Phase 4a (Construction)	2022
(Gladiotor Rd / Bakerdale / Southdale / Bakerdale Area)	
Phase 4b (Construction)	2022
(West Thornhill Area - Phase 3C (Glen Cameron Rd, Lilian Ave, Mira Road,	
Pheasant Valley Crt)	
Phase 5a - Design	2022
(Drakefield Rd/ Banfield Ave./ Princess St. / Dublin St. Area))	
Phase 5b - Construction (This Request)	2023
(Drakefield Rd. / Banfield Ave./ Princess St. / Dublin St. Area)	
Phase 6 a- Design (This Request)	2024
Part of Highway 7 including Christman Ct.	
Phase 7 a- Design (This Request)	2024
Part of Green Lane, Aileen Road, Guardsman & Harlech Crt Area	
Phases 6b and 7b Construction	2025
Phase 8 to Phase 15 (various streets)	2025 - 2032

2024 PROJECT FUND	DING REQUEST FORM Number:	24263
Project Name: Curb Box Inspection and Replacement I	Project Cost: Program	\$477,500
	Repa	ir/Replace
Commission: Community Services	Useful Life: 20	Pre Approval:
Department: ES - Waterworks		rie Appiovai. —
Project Mgr: Aaron Smith	Category: Minor	
· · · ·	Cost Validation: Recent awards	
	Requirement Validation: Condition assessme	ent
5 🗌 6 🗌 7 🗌 8 🗌	·	
DETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is ITS Consulted? \Box	

Program to conduct inspection of curb boxes and repair /replace defective curb boxes which are normally located at the property line. Curb box/ stop valve is the main control appurtenance for the City to turn on/off water supply to the private property. Over time, curb boxes/ stop valves deteriorate and become inoperable. Proactive inspection and repairs are required to ensure continuous water supply and reduce service interruptions.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>	NOTES This is an annual program.
Cost/Quote:	469,200	0	Total inventory: 84,330. This request is to inspect approx. 2
Internal Charges:	0	0	curb boxes and replacement of approx. 25% of inspected cu boxes and damaged sidewalk bays as required (Refer to atta
External Consulting:	0	0	
Contingency %: 0	0	0	map). There is no substantial backlog and curb boxes are in a state
Sub Total:	469,200	0	good repair. Unit cost is consistent with recent award plus in
HST Impact:	8,258	0	
Total Project Cost:	477,500	0	

SOURCE(S) OF FUNDING	f (\$)		Compon	ents			F 4
Funding Type	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Waterworks	477,500	0	0	0	0	0	0
TOTAL FUNDING	477,500					0	0

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

DCA	Am	ount in	<u>Life Cycle</u>
lame	Year Amount S	study	Amount in Study: 477,500
			Amount Incl HST 477,500
			Year in the study 202
OCA and/or Life Cycle: Explain if ther			

Program Name: Curb Box Inspection and Replacement Program

Department: Environmental Services

Year	Project #	Past	2024	Future	Total
2019	#19246	\$392,200			\$392,200
2020	#20259	\$614,100			\$614,100
2021	#21171	\$714,900			\$714,900
2022	#22205	\$639,700			\$639,700
2023	#23258	\$748,100			\$748,100
2024	#24263 (This Request)		\$477,500		\$477,500
2025 Onwards				varies	varies
Total		\$3,109,000	\$477,500		

Description of Program

Program to conduct inspection of curb boxes and repair /replace defective curb boxes which are normally located at the property line. This is an annual program.

What was completed in the past

See above table

Current ask

\$477,500

Future Phases

Varies

Related 2024 Project(s)

N/A

Мар

N/A

2024 PROJECT FUN	SING REQUEST FO.	N N	umber:	24264
Project Name: District Metered Area (DMA) Equipme	ent Replacement Class	Project	Cost:	\$65,800
	1		Repair	/Replace
Commission: Community Services Department: ES - Waterworks Project Mgr: Edgar Tovilla	Category:	Jseful Life: Minor	20	Pre Approval:
Ward(s): $CW \checkmark 1 \bigcirc 2 \bigcirc 3 \bigcirc 4 \bigcirc$ $5 \bigcirc 6 \bigcirc 7 \bigcirc 8 \bigcirc$	Cost Validation: Requirement Validation:	· · · · ·		
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is I	TS Consulte	ed?	
eplacement of class 1 instrumentation equipments for distric r	netered area (DMA) 3&4.			

BUILDING MARKHAM'S FUTURE TOGETHER: Exceptional Services by Exceptional People

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES There are 2 flow monitoring locations in Area 3 and there are 3
Cost/Quote:	64,700	0	flow monitoring locations in Area 4 (from a total of 9 District
Internal Charges:	0	0	Metered Areas (DMA's)). Instrumentation components include
External Consulting:	0	0	Programmable Logic Controllers (PLC), Flow meter, Radio Antenna, Antenna Mast, Ethernet Radio, pressure sensor and
Contingency %: 0	0	0	temperature sensor etc.
Sub Total:	64,700	0	
HST Impact:	1,139	0	
Total Project Cost:	65,800	0	

SOURCE(S) OF FUNDING	(\$)		Compon	ents			F 4
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Waterworks	65,800	0	0	0	0	0	0
TOTAL FUNDING	65,800					0	0

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

DCA	Amount in	<u>Life Cycle</u>		
Name	Year Amount Study	Amount in Study:	65,800	
		Amount Incl HST	65,800	
		Year in the study	2024	

roject Name: Infrastructure Data Analyst - Full Time	e Staff	Project	Cost:	\$114,600
·			Studie	s/Pilot Programs
Commission: Community Services Department: ES - Waterworks Project Mgr: Shipra Singh	Category:	Useful Life: Annual	0	Pre Approval:
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$	Cost Validation: Requirement Validation:		•	,
ETAILED DESCRIPTION (SCOPE OF PROJECT):	ITS Involved Project: Is	ITS Consulte	d? 🗆	
his funds one permanent full time staff position.				

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This position will assist the IMS/ Capital Planning
Cost/Quote:	0	0	effectively manage all infrastructure data and capita
Internal Charges:	114,600	0	all ES assets with a value of \$7.8B (79% of City asset enhance the service level.
External Consulting:	0	0	ennance the service level.
Contingency %: 0	0	0	
Sub Total:	114,600	0	
HST Impact:	0	0	
Total Project Cost:	114,600	0	

SOURCE(S) OF FUNDING	G (\$)		Compone	ents			Entuno
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Waterworks	114,600	0	0	0	0	0	0
TOTAL FUNDING	114,600					0	0

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

DCA		Amount in	<u>Life Cycle</u>	
Name	Year Amount	Study	Amount in Study:	112,900
			Amount Incl HST	112,900
			Year in the study	2024
DCA and/or Life Cycle: Explain if there is a c				

MARKHAM 2024 PROJECT FUND	DING REQUEST FOR	M Number:	24266
Project Name: Sanitary Sewers - Rehabilitation		Project Cost:	\$924,200
Commission: Community Services Department: ES - Waterworks Project Mgr: Philip Zhang	Use Category: M	ful Life: 50	Pre Approval:
Ward(s): $CW \checkmark 1 \square 2 \square 3 \square 4 \square$ $5 \square 6 \square 7 \square 8 \square$	Cost Validation: R Requirement Validation: C	ondition assessmer	nt
DETAILED DESCRIPTION (SCOPE OF PROJECT): Program to rehabilitate the main sanitary sewer, service laterals of Finite Formation Finite States and the states of the second secon	6	pairs to manholes.	

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES This is an annual program.
Cost/Quote:	832,350	0	Program is to rehabilitate the main sanitary sewer, service l using structural liner and repairs to manholes identified thro
Internal Charges:	77,200	0	CCTV inspection.
External Consulting:	0	0	Sanitary sewers are in a state of good repair.
Contingency %: 0	0	0	This request includes salary recovery for a 0.5 FTE (full tim
Sub Total:	909,550	0	position).
HST Impact:	14,649	0	
Total Project Cost:	924,200	0	

SOURCE(S) OF FUNDING (\$)	Components						E4
<u>Funding Type</u>	<u>Budget</u>	Rehabilitation	Internal Charges			TOTAL	<u>Future</u> <u>Phases</u>
Waterworks	924,200	847,000	77,200	0	0	924,200	0
TOTAL FUNDING	924,200				-	924,200	0

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

<u>DCA</u>	Amount in	<u>Life Cycle</u>
Name	Year Amount Study	Amount in Study: 923,100
		Amount Incl HST 923,100
DCA and/or Life Cycle: Explain i	if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain i	if there is a change in the year and/or cost:	Year in the study 2024
DCA and/or Life Cycle: Explain i	if there is a change in the year and/or cost:	Year in the study 2024

Program Name: Sanitary Sewer Rehabilitation Program

Department: Environmental Services

Year	Project #	Past	2024	Future	Total
2019	#19249	\$1,130,600			\$1,130,600
2020	#20261	\$910,600			\$910,600
2021	#21173	\$1,405,000			\$1,405,000
2022	#22210	\$981,900			\$981,900
2023	#23264	\$846,600			\$846,600
2024	#24266 (This Request)		\$924,200		\$923,100
2025 Onwards				varies	varies
Total		\$5,274,700	\$924,200		

Description of Program

Program to rehabilitate the main sewer, service laterals using structural liner including repairs to manholes identified through CCTV inspection

What was completed in the past

See above table

Current ask

\$924,200

Future Phases

Varies

Related 2024 Project(s)

N/A

Мар	N/A
	,

2024 PROJECT FUNDING REQUEST FORM

Number: 24267

MARKHAM						Number	r: 24	4207
	a , , ,				P	roject Cost:	\$114	1,200
Project Name: Sanitary	•	ent			_	Stuc	dies/Pilot I	Programs
Commission: Community	y Services				Usefu			proval:
Department: ES - Water				Catego	ory: Maj		11071	provai.
Project Mgr: <u>Shumin Ga</u>	.0			-				
Ward(s): CW \checkmark 1	2 3 4		D			rnal peer revie		
5	6 7 8			juirement Validati		· I V	(otes)	
DETAILED DESCRIPTIO	ON (SCOPE OF P	ROJECT):	ITS	Involved Project:	: Is ITS C	onsulted? \Box		
Due to intensification and po calibrated hydraulic model a Consolidated Linear Infrastr development does not excee assessments in 2024. BUILDING MARKHAM'	nd current system a ucture-Environmen d the system hydrau	assessment crit atal Complianc alic capacity.	teria. It is a ce Approva It is intend	lso a condition in l (CLI-ECA), the	the upcon City shall	ming legislativ ensure any ad	ve requiren ldition of 1	nent,
BUILDING WAKKHAM	SFUTURE TOG	LINER: 5		nable Community				
PROJECT COSTS (\$)	<u>2024</u>	Future Pha		DTES	1 1 1		1.1 / 1	. 2014
Cost/Quote:	112,200		The	e current City wide ald like to update a				
Internal Charges:	0		sele	ected area where the	here is urg	gent developm	nent pressu	ire. Sanitary
External Consulting:	0		sew	er capacity assess	ment will	be done for 2	sanitary c	atchment
Contingency %: 0	0		0 area	18.				
Sub Total:	112,200	()					
HST Impact:	1,975	()					
Total Project Cost:	114,200	()					
SOURCE(S) OF FUNDING	<u> (\$) </u>			Components				
Funding Type	<u>Budget</u>					r -	<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Waterworks	114,200	0)	0	0	0	0	C
TOTAL FUNDING	114,200						0	
OPERATING BUDGET I	MPACT Per	sonnel No	on Personn	el Revenues	Exp	enditures/(Re	evenues)	
		\$0	\$0	\$0		\$0		
DCA/LIFE CYCLE DETA	ILS							
DCA				Amount	t in	<u>Life Cycle</u>		
Name			Year A	Amount Study		Amount in S	tudy	114,200
						Amount Incl		
								114,200
						Year in the	study	2024
DCA and/or Life Cycle	: Explain if there is	a change in th	e year and	or cost:				

oject	et Cost:	
		\$593,700
	Repa	air/Replace
Life	e: 20	Pre Approval:
or		
mal p	peer reviev	W
		life cycle years
	lted?	
~	Consu	Consulted?

PROJECT COSTS (\$)	<u>2024</u>	Future Phases	NOTES Sampling stations: 88 out of 107 (82%) scheduled. Cost
Cost/Quote:	583,432	0	consistent with LC analysis. Maps as attached.
Internal Charges:	0	0	
External Consulting:	0	0	
Contingency %: 0	0	0	
Sub Total:	583,432	0	
HST Impact:	10,268	0	
Total Project Cost:	593,700	0	
	575,700	0	

SOURCE(S) OF FUNDING	<u>G (\$)</u>		Compon	ents			Entuno
<u>Funding Type</u>	Budget					<u>TOTAL</u>	<u>Future</u> <u>Phases</u>
Waterworks	593,700	0	0	0	0	0	0
TOTAL FUNDING	593,700					0	0

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

DCA	₹7 ▲	Amount in	<u>Life Cycle</u>	
Name	Year Ame	ount Study	Amount in Study:	593,700
			Amount Incl HST	593,700
			Year in the study	2024
DCA and/or Life Cycle: Explain	if there is a change in the year and/or	cost:		
DCA and/or Life Cycle: Explain	if there is a change in the year and/or	cost:		

MARKHAM	2027110	JECT FUNDI	no nige		Number	: 24	4269
Project Name: Waterma	in Look Dotoot	ion Drogram			Project Cost:	\$35	,600
					Stud	ies/Pilot l	Programs
Commission: <u>Community</u>				I	Useful Life: 0	Pre Ap	proval:
Department: <u>ES - Water</u>	works			Category:	Annual	-	-
Project Mgr: Celia Fan			Cost	•••	Recent awards		
.,	2 3 4				Condition assessme	ent	
5	6 7 8		-			ent	
DETAILED DESCRIPTIO	ON (SCOPE OF	PROJECT):	11S Involved	Project: Is	ITS Consulted?		
eak survey on the other 50% eak correlation is to be com 'he results of investigation f BUILDING MARKHAM'	pleted to pin-poin from leak correlat	nt leaks on those pote tion will identify the	ential leak location	ons identific location to b	ed from the previous		
PROJECT COSTS (\$)	2024	Future Phases	NOTES				
Cost/Quote:	0	0	Amount reque Study Update		sistent with 2023 Wa	aterworks	Reserve
Internal Charges:	0	0	Study Opuale	•			
External Consulting:	35,000	0					
Contingency %: 0	0	0					
Sub Total:	35,000	0					
HST Impact:	616	0					
Total Project Cost:	35,600	0					
=							
OURCE(S) OF FUNDING			Compor	nents			Future
unding Type	Budget	<u>t</u>			<u> </u>	OTAL	Phases Phases
aterworks	35,600	0	0	0	0	0	
TOTAL FUNDING	35,600					0	
DPERATING BUDGET I	MPACT P	ersonnel Non Pe	ersonnel Re	venues	Expenditures/(Re	venues)	
		\$0 \$	60	\$0	\$0		
CA/LIFE CYCLE DETA	ILS						
DCA				Amount in	<u>Life Cycle</u>		
		Yea	ar Amount	Study	— Amount in St	udy:	35,600
Name					Amount Incl		35,600
					Year in the s		2024

Corporate Wide

MARKH	IAM	2024 PROJECT FUN	DING REQUEST FO	RM	Number:	24270
Project Name:	ITS - Cybe	r Security		Projec	t Cost:	\$574,800
Commission: Department:	ITS	rvices	U Category:	Jseful Life Annual		Pre Approval:
	CW ☑ 1 □ 5 □	2 3 4 4 6 6 7 8 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	Cost Validation: Requirement Validation: ITS Involved Project: Is I	Other(spe	ecify in Not	
		N (SCOPE OF PROJECT): tional software for Cyber Securit		15 Collsu		

\$0

PROJECT COSTS (\$)	<u>2024</u>	<u>Future Phases</u>
Cost/Quote:	538,000	0
Internal Charges:	0	0
External Consulting:	0	0
Contingency %: 5	26,900	0
Sub Total:	564,900	0
HST Impact:	9,942	0
Total Project Cost:	574,800	0

SOURCE(S) OF FUNDING (\$)

SOURCE(S) OF FUNDING (Future					
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	Phases
Building Fees	27,100	0	0	0	0	0	0
Development Fees	36,200	0	0	0	0	0	0
Operating Funded Life Cycle	122,800	0	0	0	0	0	0
Ramp Up	361,600	0	0	0	0	0	0
Waterworks	27,100	0	0	0	0	0	0
TOTAL FUNDING	574,800					0	0
OPERATING BUDGET IMI				enues Exj	penditures/(I	,	

\$560,000

\$0

\$560,000

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