

HALIFAX

P.O. Box 1749
Halifax, Nova Scotia
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Item No. 3
Budget Committee
January 24, 2018

TO: Chair and Members of Budget Committee
(Standing Committee of the Whole on Budget)

SUBMITTED BY: Original Signed by 

Jacques Dubé, Chief Administrative Officer

DATE: January 16, 2018

SUBJECT: Proposed 2018/19 Multi-year Transportation & Public Works Budget and
Business Plan

ORIGIN

As per Administrative Order 1 and the Budget and Business Plan consultation schedule presented to Regional Council on November 14, 2017, staff is required to present the 2018/19 draft Business Unit Budget and Business Plans to the Budget Committee for review and discussion prior to consideration by Regional Council.

LEGISLATIVE AUTHORITY

Halifax Charter, section 35 (1) The Chief Administrative Officer shall (b) ensure that an annual budget is prepared and submitted to the Council.

RECOMMENDATION

It is recommended that Budget Committee direct staff to proceed to prepare the 2018/19 Multi-year Transportation & Public Works Budget and Business Plan, as proposed in the accompanying presentation and consistent with the preliminary fiscal direction.

BACKGROUND

As part of the design of the 2018/19 Budget and Business Plan development process, the Budget Committee is reviewing each Business Unit's budget and proposed plans in advance of detailed HRM Budget and Business Plan preparation.

At the December 5, 2017 Committee of the Whole meetings, Regional Council considered and confirmed their Council Priority Outcomes and on December 13, 2017 provided fiscal direction for the 2018/19 multi-year budget, directing staff to: "develop the 2018/19 Multi-year Budget and Business Plans in support of the fiscal direction and approved priorities."

DISCUSSION

Staff has prepared the proposed 2018/19 Budget consistent with the preliminary fiscal direction received from Council on December 13, 2017 and aligned with Council Priorities as approved on December 5, 2017.

Following direction from the Budget Committee, staff will proceed to prepare the detailed Budget and Business Plan for inclusion in the proposed HRM 2018/19 Multi-year Budget and Business Plan documents to be presented to Council, as per the process and schedule in the November 14, 2017 staff report.

FINANCIAL IMPLICATIONS

The recommendations in this report will lead to the development of a proposed 2018/19 Multi-year budget. There are no immediate financial implications from these recommendations. The broader financial implications will be discussed and debated as the budget is developed in more detail.

RISK CONSIDERATION

None are specifically associated with this report.

COMMUNITY ENGAGEMENT

None are specifically associated with this report.

ENVIRONMENTAL IMPLICATIONS

None

ALTERNATIVES

The Budget Committee can choose to amend the Budget and Business Plan as proposed in the accompanying presentation through specific motion, and direct staff to proceed to prepare the Budget and Business Plan for inclusion in the proposed HRM Budget and Business Plan documents.

ATTACHMENTS

Transportation & Public Works 2018/19 Multi-year Budget and Business Plan Presentation
Transportation & Public Works 2018/19 Capital Project Package

A copy of this report can be obtained online at halifax.ca or by contacting the Office of the Municipal Clerk at 902.490.4210.

Report Prepared by: Victoria Horne, Coordinator, Transportation and Public Works 902-292-8434

Financial Approval by: Original Signed
Jerry Blackwood, Acting Director of Finance and Asset Management/CFO, 902.490.6308
Original Signed

Report Approved by: Bruce Zvaniga, Director of Transportation & Public Works, 902.490.4855

HALIFAX

Transportation & Public Works

**2018/19 Multi-Year
Budget & Business Plan**

Committee of the Whole on Budget

Transportation & Public Works Vision

We aim to be:

A trusted organization to its customers

A supportive and high performing organization

Innovative while being aware of the risks

Adaptable



Service Areas

Project Planning & Design



Delivers road asset-related professional and technical services including surveying, engineering design, infrastructure management and records management. Plans and delivers the Active Transportation priorities.

Road Operations and Construction



Proactively maintains and improves a safe, efficient, aesthetic and clean street and sidewalk system for use by residents and visitors.

Traffic Management



Provides safe and efficient management of the municipality's transportation system network including traffic flow, signal and street light maintenance, signage and pavement markings. Coordinates and manages the municipality's Right of Way.

Service Areas

Solid Waste Resources



Manages municipal solid waste source separated collection and diversion for residential properties, facilities for disposal, processing, recycling and composting. Responsible for marketing of solid waste resource materials. Delivers education programs and administers the construction and demolition waste management strategy.

Parking



Oversees the Municipality's Parking Strategy including increasing efficiency of the existing parking system, finding strategies that reduce parking demand, and overseeing parking governance and funding management.

Asset Responsibilities



944 kms of sidewalks
2480 crosswalks
268 signalized intersections



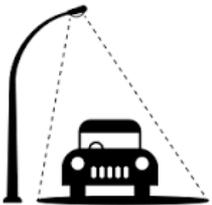
Average annual solid waste tonnage collected and processed
28,000 tonnes recyclables (approx.)
52,000 tonnes organics
47,000 tonnes refuse



110 km of bike lanes
160 km of multi-use paths



Licensing of sites that divert **99,000 tonnes** of construction and demolition material from municipal solid waste landfills



3,845 lane-kms roadway
105 bridges (HRM owned plus cost shared structures)
43,789 street lights



4,762 public parking spaces in Downtown Halifax and Dartmouth



180,000 street trees
9,000,000 trees on HRM properties

Accomplishments

- Rectangular Rapid Flashing Beacon pilot project at four locations;
- Rainbow Art in Crosswalks project expanded;
- Completion of LED street light project;
- Creation of pilot district with combination streets and sidewalks;
- Pay-by-phone option (HotSpot) at parking meters and by-law updates;
- All on-street parking inventoried and mapped within the Regional Centre;
- Successfully completed pothole backlog;
- Successfully completed concrete patching trial. Using concrete in place of asphalt for small patching jobs possible;
- Completed the process to collect the asphalt condition of all HRM owned streets through a high speed data collection methodology.



Current & Planned Initiative Updates

Healthy, Liveable Communities – Energy & Environment



Solid Waste Program Improvements

- Completed clear bag pilot program with 5 condo buildings (300+ units). Annual curbside monitoring complete. Education and promotion projects under way (litter and illegal dumping campaign);
- Organics management RFQ completed and will be scored in Q4. RFP to follow in 2018/19;
- Materials Recovery Facility (MRF) expansion to be completed by end of 2017/18. Working to establish additional regional partnerships for recycling;
- Leachate feasibility study for Otter Lake Landfill to be completed by Q4;
- Completed contract negotiations on existing compost facility operations;
- Developing an Expression of Interest for textile recycling partnerships;
- Reports being drafted for curbside collection of medical waste and opt-out flyer delivery.

Current & Planned Initiative Updates

Healthy, Liveable Communities – Energy & Environment



Urban Forestry

- 1500-2000 trees planted per year;
- Cyclic pruning program expanded – extends the life and health of canopy;
- Year 5 report to Regional Council on the Urban Forest Master Plan in Q2 of 18/19;
- Education Program to commence in Q1.

Current & Planned Initiative Updates

Transportation – Interconnected and Strategic Growth



Transportation Planning

- Integrated Mobility Plan approved by Council Dec. 2017.

Active Transportation

- Most of 2017-18 AT capital projects tendered;
- 66% of functional plans underway or completed;
- Macdonald bridge bikeway project moving to detailed design in 2018/19.

Parking Policy

- Parking Technology;
- Enhancement of internal governance;
- Public and stakeholder engagement on supply and demand management.

Current & Planned Initiative Updates

Transportation – Well Maintained Transportation Network



Transportation Capital Works

- 90% of budget for paving projects has been awarded;
- Pavement Management System implemented and in testing;
- 100% of level 2 bridge inspections completed, report being finalized;
- Staff will continue to apply an integrated approach when planning for the 2018/19 Capital Program, with a focus on leveraging Integrated Mobility Plan opportunities.

Current & Planned Initiative Updates

Transportation – Well Maintained Transportation Network



- Snow service delivery trial in Fall River and Sackville (combined streets and sidewalk contracts);
- New street furniture installed on Argyle and throughout downtown core;
- Operations implementing new reporting structure for improved customer service;
- City Works: all priority one work orders and service requests successfully transitioned.

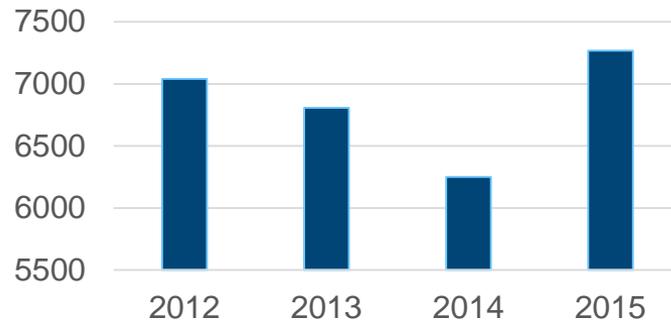


Current & Planned Initiative Updates

Transportation – Safe and Accessible Transportation Network



Total Motor Vehicle Collisions



Road Safety

- Two workshops held to establish vision and goal statements;
- Reviewing countermeasures and assigning leads;
- Crosswalk upgrades;
- Traffic calming measures.

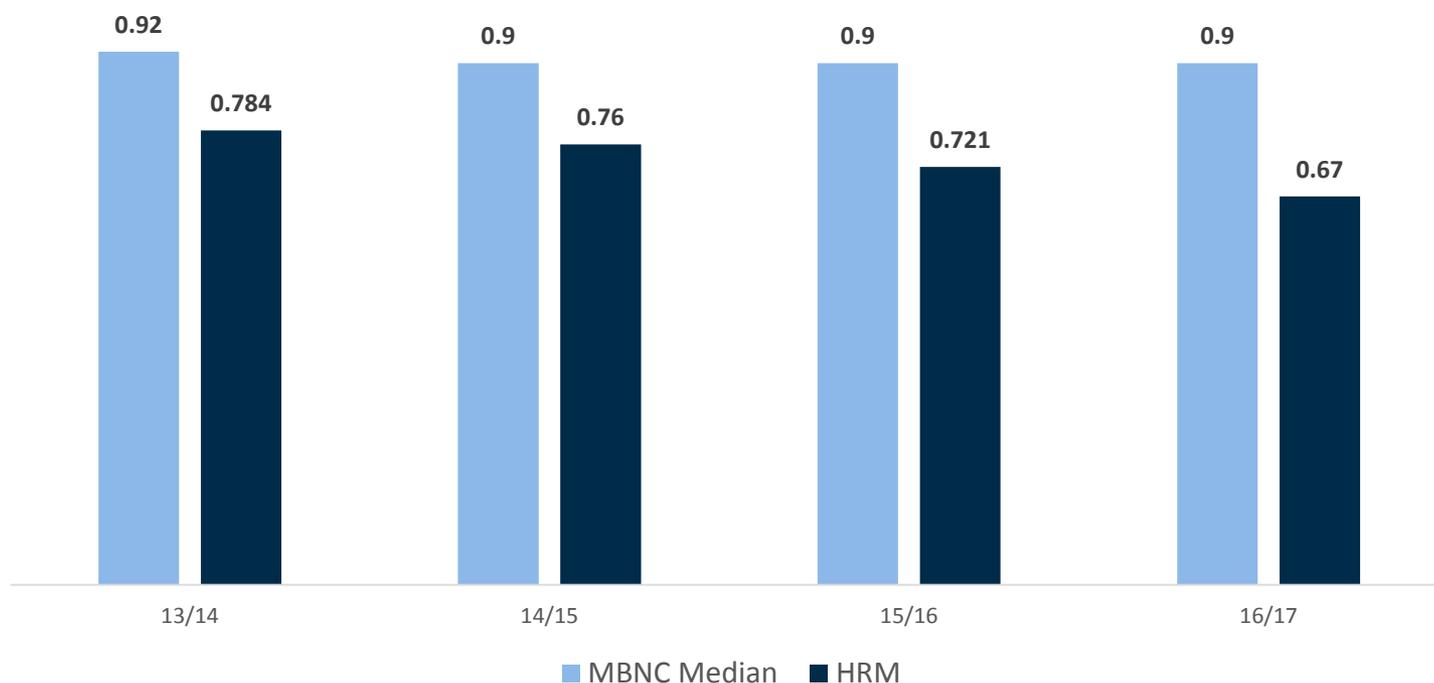
Traffic Signal System upgrades:

- Traffic signal controllers purchased to upgrade the next 70 intersections.

16/17 Key Performance Indicators

Healthy, Liveable Communities – Energy & Environment

Tonnes of all Residential Material Collected per Household

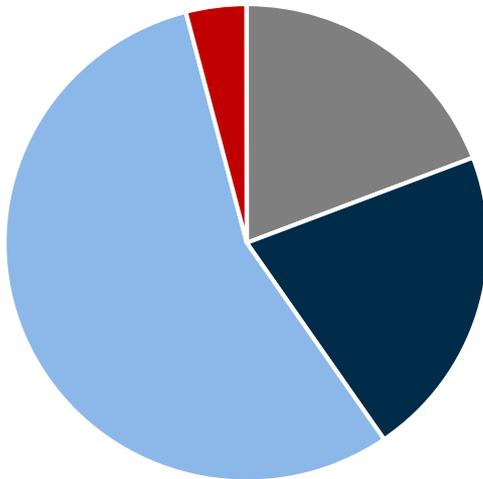


MBNC: Municipal Benchmarking Network Canada
Measure: SWST205 – Tonnes of all Residential Waste Collected per Household

16/17 Key Performance Indicators

Transportation – Well Maintained Transportation Network

Bridge Rating (2017 data)



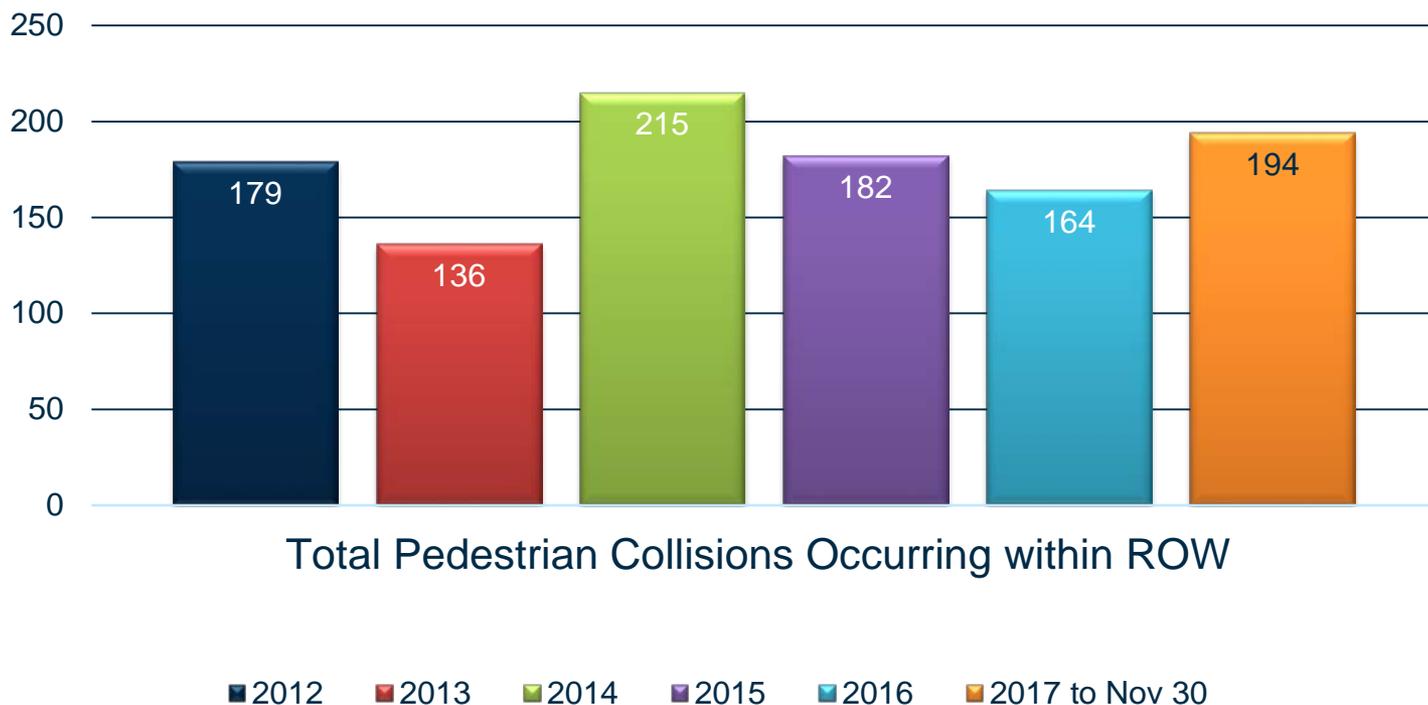
- 8,459 potholes filled in 2017*
- 88% of sidewalks rated as “good”
- 40% of bridges where condition is rated good to very good**

■ Very Good (19%) ■ Good (21%) ■ Fair (55%)
■ Poor (4%) ■ Critical (1%)

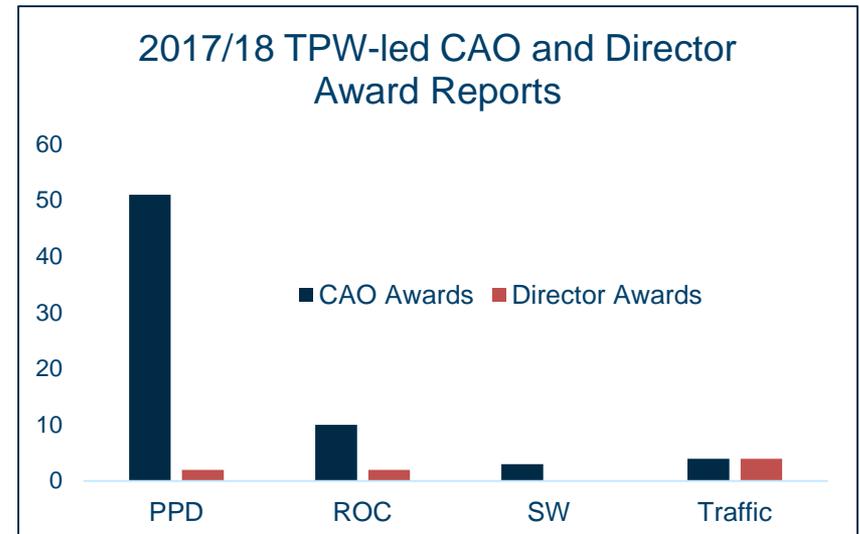
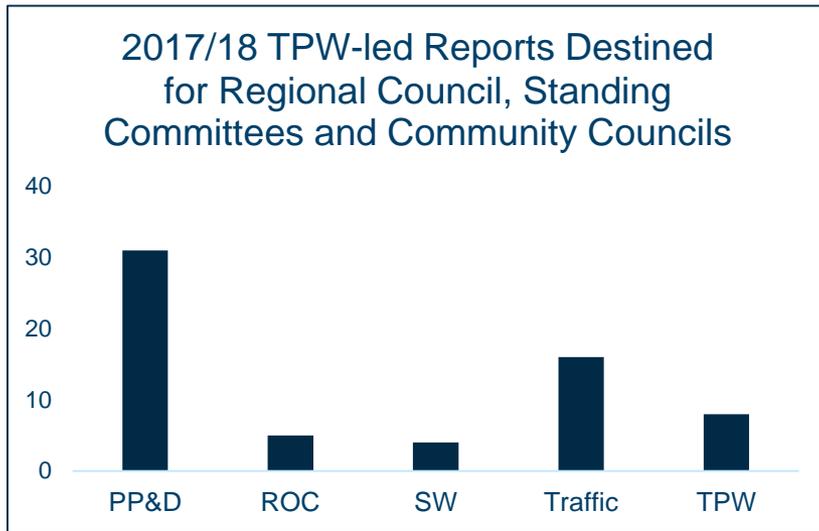
* Calendar year
** 2017 data

16/17 Key Performance Indicators

Pedestrian Safety



17/18 Key Performance Indicators



Operating Budget Overview*

Expenditures	16/17 Budget	17/18 Budget	17/18 Projected	Proposed 18/19 Budget
* Compensation and Benefits	\$20,476,100	\$21,515,300	\$22,033,000	\$22,389,900
* Office	212,700	293,800	277,500	308,600
* External Services	61,264,200	60,952,600	60,789,000	60,855,500
* Supplies	257,300	321,400	345,300	328,500
* Materials	1,597,700	1,781,000	1,762,200	1,738,000
* Building Costs	3,189,400	3,054,200	3,487,900	3,528,300
* Equipment & Communications	464,900	440,000	480,700	459,500
* Vehicle Expense	9,500	30,600	33,400	34,400
* Other Goods & Services	2,591,200	2,980,400	2,801,800	3,702,900
* Interdepartmental	38,200	59,100	182,700	308,900
* Debt Service	2,518,400	2,365,600	2,350,600	2,267,300
* Other Fiscal	3,935,000	5,035,200	3,773,000	4,415,800
** Total	\$96,554,600	\$98,829,200	\$98,317,100	\$100,337,600
Revenues				
* Area Rate Revenue	\$(40,900)	\$(41,200)	\$(41,200)	\$(41,200)
* Transfers from other Gov't	(2,623,100)	(2,154,100)	(4,154,000)	(2,954,100)
* Fee Revenues	(3,109,500)	(3,440,000)	(3,327,000)	(2,733,300)
* Other Revenue	(1,484,900)	(1,341,100)	(1,416,500)	(1,207,800)
** Total	(\$7,258,400)	(\$6,976,400)	(\$8,938,800)	(\$6,936,400)
Net Surplus/Deficit	\$89,296,200	\$91,852,800	\$89,378,300	\$93,401,200

* Restated for April 2017 reorganization

Service Area Budget Overview*

* Restated for April 2017 reorganization

Business Unit Net Expenses	16/17 Budget	17/18 Budget	17/18 Projected	18/19 Approved in Principle	18/19 Proposed Budget
BU Administration	\$749,400	\$796,300	\$787,600	\$807,100	\$885,400
Project Planning & Design	2,939,100	3,101,600	3,136,400	3,098,600	3,108,500
Road Operations and Construction	38,548,300	39,974,000	40,052,600	40,837,700	41,580,300
Traffic Management	12,192,600	12,811,000	12,815,100	13,057,100	13,232,700
Solid Waste Resources	34,866,800	35,096,300	32,466,300	34,700,400	34,541,800
Parking Strategy		73,600	120,300	60,900	52,500
BU Total	\$89,296,200	\$91,852,800	\$89,378,300	\$92,561,800	\$93,401,200

Staff Counts *

Service Area	16/17 Approved	17/18 Approved	18/19 Approved in Principle	18/19 Proposed
BU Administration	3	3	3	3
Project Planning & Design	39	39	42	39
Road Operations and Construction	174	174	174	173
Traffic Management	47	47	47	47
Solid Waste Resources	17	17	18	18
Parking	1	1	1	1
Business Unit Total	281	281	285	281
Terms / Seasonals	21.5	21.1	21.1	29

* Restated for April 2017 reorganization

Business Unit Capital Budget

Business Unit Total Gross Capital Investment	Additional Business Unit OCC for 2018/19*
\$62,770,000	\$571,000

Business Unit Key Capital Projects

Capital Project Name	Outcome Supported	BU 18/19 Capital Cost
Traffic Projects State of Good Repair	Transportation	\$3,050,000
Road and Bridge Projects State of Good Repair	Transportation	\$40,810,000
New Paving - HRM and Provincially Owned Roads	Transportation	\$1,031,000
Sidewalk Renewals	Transportation	\$4,500,000

* Includes Operating Cost of Capital (OCC) from past Capital Projects that are just now becoming operational

Business Unit Capital Budget

Business Unit Total Gross Capital Investment	Additional Business Unit OCC for 2018/19*
\$62,770,000	\$571,000

Business Unit Key Capital Projects

Capital Project Name	Outcome Supported	BU 18/19 Capital Cost
Solid Waste Facilities	Healthy, Liveable Communities	\$3,950,000
Solid Waste Environmental Projects	Healthy, Liveable Communities	\$1,135,000
Mackintosh Depot Recapitalization	Service Delivery	\$1,150,000

* Includes Operating Cost of Capital (OCC) from past Capital Projects that are just now becoming operational

INTEGRATED MOBILITY PLAN

TPW Capital Investment



Capital Project Name	Project Highlights	BU 18/19 Capital Cost
Parking Technology	<ul style="list-style-type: none"> • Business and Technology Solution architecture • RFP & Contract Negotiation 	\$1,560,000
Active Transportation	<ul style="list-style-type: none"> • MacDonald Bridge Bikeway Connection • Local Street Bikeways Vernon & Seymour; Alan & Oak • South Park and Almon Street bike lanes 	\$10,450,000
Intersection Improvements	<ul style="list-style-type: none"> • Accessible pedestrian signals and ramps • Chebucto/Windsor/Cunard • Sackville/Beaverbank 	\$850,000

INTEGRATED MOBILITY PLAN

TPW Capital Investment



Capital Project Name	Project Highlights	BU 18/19 Capital Cost
Traffic Calming Projects	<ul style="list-style-type: none"> • Various locations 	\$200,000
Railway Crossing Improvements	<ul style="list-style-type: none"> • Implement safety audit recommendations 	\$170,000
Crosswalk Lights	<ul style="list-style-type: none"> • Upgrades and rectangular rapid flashing beacons 	\$520,000
Traffic Signal Rehabilitation	<ul style="list-style-type: none"> • Robie/South • Prince Albert/Hawthorne 	\$822,000
Street Recapitalization	<ul style="list-style-type: none"> • Bulb-outs • tactile walking surface indicators • transit pad/sidewalk connections, etc. 	\$1,500,000
Total		Approx. \$16,072,000

Summary of Proposed Budget Adjustments

Proposed Adjustments	Impact on Service Delivery	Projected 18/19 \$ Impact	Amount
18/19 Approved in Principle*			\$92,561,800
Net Compensation Increase	No impact on service delivery	\$323,400	
OCC adjustments	No impact on service delivery	\$571,000	
Winter overnight parking enforcement transferred to P&D	No impact on service delivery	(\$15,000)	
Parking Revenue transferred from P&D	No impact on service delivery	(\$40,000)	
Total Proposed Changes			\$839,400
Proposed 18/19 Budget			\$93,401,200

* Restated for April 2017 reorganization. Includes approved in principle changes from 17/18 budget discussions.

Pressures and Risks

Risks:

- Extreme weather events;
- Plastics recycling and international trends;
- Accessibility legislation and timelines to implement;
- Continued costs of unaccepted and private roads.

Pressures:

- Upgrading design and maintenance of neighbourhood pathways;
- Implementing the Integrated Mobility Plan at a faster pace;
- Change in residential speed limits and implementation costs;
- Traffic calming.

2018/2019 Capital Budget Form

Project Name:	Composting/Anaerobic Digestion (AD) Plant
Project Number:	CW000004
Budget Category:	Solid Waste
Project Type:	Growth
Discrete/Bundled:	Discrete
Project Manager:	Barry Nickerson

Project Summary:

HRM needs to explore the option of constructing a new organics processing facility, or the expansion of existing facility(s). An Anaerobic Digestion (AD) facility or composting plant to process organics including the wet Industrial, Commercial and Institutional (ICI) stream of organics could be developed to aid or replace one or both of HRM's two existing aerobic composting facilities, which are currently operating at capacity and need to meet revised guidelines for maturity. The ICI organics stream could be handled with an AD or other technology and potentially help in the processing and maturity of the compost produced at the existing aerobic facilities. The costs outlined below will enable a consultant to assist with RFQ/RFP development, review, assessment and scoring; project management, design, siting, regulatory requirements; community consultations and engagement; contract negotiations; legal, and other direct costs for this project. The budget does not include funding for the asset, as staff are currently reviewing a design, build, own, operate and possible transfer procurement model.

Total Capital Budget Request: (5 Years) \$

Supports Outcome Area:

Project Status:

Approximate accuracy of budget estimate

Capital Costs - Cash Flow

Fiscal Year	2018/19	2019/20	2020/21	2021/22	2022/23
Gross Budget:	250,000	-	-	-	-
Funding Source:					
Reserve Q556 - Solid Waste Facilities Reserve	250,000	-	-	-	-
	-	-	-	-	-
Total Funding:	250,000	-	-	-	-
Net Budget:	-	-	-	-	-

Fiscal Year	2023/24	2024/25	2025/26	2026/27	2027/28
Gross Budget:	-	-	-	-	-
Funding Source:					
Reserve Q556 - Solid Waste Facilities Reserve	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	-	-	-	-	-

Detailed Work Plan:

	2018/19	2019/20
Consultant assistance in RFQ/RFP development, review, assessment and scoring; project management during construction, design, siting, regulatory requirements.	800,000	-
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Total Estimated Work Plan	800,000	-
Less: Projected Carry Forward from Previous Years	550,000	N/A
Gross Budget Request	250,000	-

2018/2019 Capital Budget Form

Project Name:	Environment Monitoring Site Work 101 Landfill
Project Number:	CWU01353
Budget Category:	Solid Waste
Project Type:	State of Good Repair
Discrete/Bundled:	Bundled
Project Manager:	Barry Nickerson

Project Summary:

To ensure the site continues to meet all of the requirements of a closed landfill, this work will include water monitoring, site maintenance and repair on a priority basis to meet all requirements of a closed landfill including site regulatory approval requirements. The current engineering and monitoring firm has identified this work to include erosion control, cap and leachate system improvements and inspections of site infrastructure.

Total Capital Budget Request: (5 Years) \$ 500,000

Supports Outcome Area: Healthy, Liveable Communities (Council Priority)

Project Status: Preliminary

Approximate accuracy of budget estimate +-25%

Capital Costs - Cash Flow

Fiscal Year	2018/19	2019/20	2020/21	2021/22	2022/23
Gross Budget:	100,000	100,000	100,000	100,000	100,000
Funding Source:					
Reserve Q506 - Landfill Closure & Post Closure Cost Reserve	100,000	100,000	100,000	100,000	100,000
	-	-	-	-	-
Total Funding:	100,000	100,000	100,000	100,000	100,000
Net Budget:	-	-	-	-	-

Fiscal Year	2023/24	2024/25	2025/26	2026/27	2027/28
Gross Budget:	100,000	100,000	100,000	100,000	100,000
Funding Source:					
Reserve Q506 - Landfill Closure & Post Closure Cost Reserve	100,000	100,000	100,000	100,000	100,000
	-	-	-	-	-
Total Funding:	100,000	100,000	100,000	100,000	100,000
Net Budget:	-	-	-	-	-

Detailed Work Plan:

	2018/19	2019/20
Water monitoring, site maintenance and repair to meet all requirements of a closed landfill including site regulatory approval requirements. The work also includes: erosion control, cap and leachate system improvements and inspections of site infrastructure. This includes the carry over of residual funding to enable quick response to issues at the landfill that may be identified by the engineering and monitoring firm or the landfill gas operator.	1,060,000	100,000
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Total Estimated Work Plan	1,060,000	100,000
Less: Projected Carry Forward from Previous Years	960,000	N/A
Gross Budget Request	100,000	100,000

2018/2019 Capital Budget Form

Project Name:	Land Acquisition Otter Lake
Project Number:	CWI00967
Budget Category:	Solid Waste
Project Type:	Service Improvements
Discrete/Bundled:	Bundled
Project Manager:	Barry Nickerson

Project Summary:

Purchase of land parcels, as they become available, surrounding the Otter Lake facilities to create a buffer to prevent encroachment and recreational uses.

Total Capital Budget Request: (5 Years) \$ -

Supports Outcome Area: Healthy, Liveable Communities (Council Priority)

Project Status: Design

Approximate accuracy of budget estimate +-10%

Capital Costs - Cash Flow

Fiscal Year	2018/19	2019/20	2020/21	2021/22	2022/23
Gross Budget:	-	-	-	-	-
Funding Source:					
	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	-	-	-	-	-

Fiscal Year	2023/24	2024/25	2025/26	2026/27	2027/28
Gross Budget:	-	-	-	-	-
Funding Source:					
	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	-	-	-	-	-

Detailed Work Plan:

	2018/19	2019/20
Purchase of land parcels, as they become available, surrounding the Otter Lake facilities to prevent encroachment and recreational uses.	1,005,000	-
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Total Estimated Work Plan	1,005,000	-
Less: Projected Carry Forward from Previous Years	1,005,000	N/A
Gross Budget Request	-	-

2018/2019 Capital Budget Form

Project Name:	Leachate Forcemain
Project Number:	CW000013
Budget Category:	Solid Waste
Project Type:	Service Improvements
Discrete/Bundled:	Discrete
Project Manager:	Barry Nickerson

Project Summary:

Investigate routing and costs to send leachate from the Otter Lake facility directly to one of Halifax Water's exiting water treatment facilities. Approximately 75M litres are produced annually, this project would reduce treatment costs, transportation costs and emissions. Biowater from Halifax's two organics facilities are being studied within this project.

Total Capital Budget Request: (5 Years) \$ 6,300,000

Supports Outcome Area: Healthy, Liveable Communities (Council Priority)

Project Status: Preliminary

Approximate accuracy of budget estimate +-25%

Capital Costs - Cash Flow

Fiscal Year	2018/19	2019/20	2020/21	2021/22	2022/23
Gross Budget:	300,000	6,000,000	-	-	-
Funding Source:					
Reserve Q556 - Solid Waste Facilities Reserve	300,000	6,000,000	-	-	-
	-	-	-	-	-
Total Funding:	300,000	6,000,000	-	-	-
Net Budget:	-	-	-	-	-

Fiscal Year	2023/24	2024/25	2025/26	2026/27	2027/28
Gross Budget:	-	-	-	-	-
Funding Source:					
Reserve Q556 - Solid Waste Facilities Reserve	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	-	-	-	-	-

Detailed Work Plan:

	2018/19	2019/20
Investigate routing and costs to send leachate from the Otter Lake facility directly to one of Halifax Water's exiting water treatment facilities. Approximately 75M litres are produced annually, this project	300,000	-
Install forcemain and any other upgrades required to connect to Halifax Water treatment facility.	-	6,000,000
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
Total Estimated Work Plan	300,000	6,000,000
Less: Projected Carry Forward from Previous Years	-	N/A
Gross Budget Request	300,000	6,000,000

2018/2019 Capital Budget Form

Project Name:	Materials Recovery Facility Purchase
Project Number:	CW000012
Budget Category:	Solid Waste
Project Type:	Service Improvements
Discrete/Bundled:	Discrete
Project Manager:	Barry Nickerson

Project Summary:

At the end of the last five year operating term, HRM is required to pay the residual value of the capital upgrades of the site which were added during the contractors term. This includes conveyors and material handling systems, along with a proposed storage building to accommodate the increased volumes of materials processed at the facility since the start of the contract.

Total Capital Budget Request: (5 Years) \$ 1,200,000

Supports Outcome Area: Healthy, Liveable Communities (Council Priority)

Project Status: Design

Approximate accuracy of budget estimate +-10%

Capital Costs - Cash Flow

Fiscal Year	2018/19	2019/20	2020/21	2021/22	2022/23
Gross Budget:	1,200,000	-	-	-	-
Funding Source:					
Reserve	1,200,000	-	-	-	-
	-	-	-	-	-
Total Funding:	1,200,000	-	-	-	-
Net Budget:	-	-	-	-	-

Fiscal Year	2023/24	2024/25	2025/26	2026/27	2027/28
Gross Budget:	-	-	-	-	-
Funding Source:					
Reserve	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	-	-	-	-	-

Detailed Work Plan:

	2018/19	2019/20
Pay for capital upgrades and equipment as per the contract	1,200,000	-
	-	-
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	-	-
	-	-
	-	-
Total Estimated Work Plan	1,200,000	-
Less: Projected Carry Forward from Previous Years	-	N/A
Gross Budget Request	1,200,000	-

2018/2019 Capital Budget Form

Project Name:	New Era Recapitalization
Project Number:	CW000009
Budget Category:	Solid Waste
Project Type:	State of Good Repair
Discrete/Bundled:	Bundled
Project Manager:	Barry Nickerson

Project Summary:

Repairs to the Ragged Lake Composting Facility (Halifax owned Composting Facility) located at 61 Evergreen Place, Ragged Lake Business Park, including corrosion protection and other repairs to the receiving building, curing building and screening building.

Total Capital Budget Request: (5 Years) \$

350,000

Supports Outcome Area:

Healthy, Liveable Communities (Council Priority)

Project Status:

Design

Approximate accuracy of budget estimate

+-10%

Capital Costs - Cash Flow

Fiscal Year	2018/19	2019/20	2020/21	2021/22	2022/23
Gross Budget:	350,000	-	-	-	-
Funding Source:					
Reserve	350,000	-	-	-	-
	-	-	-	-	-
Total Funding:	350,000	-	-	-	-
Net Budget:	-	-	-	-	-

Fiscal Year	2023/24	2024/25	2025/26	2026/27	2027/28
Gross Budget:	-	-	-	-	-
Funding Source:					
Reserve	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	-	-	-	-	-

Detailed Work Plan:

	2018/19	2019/20
Replacement of curing building cover and repairs to screening building cover and trusses. Corrosion thickness study and corrosion protection for the curing building.	560,000	-
	-	-
	-	-
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	-	-
	-	-
	-	-
	-	-
Total Estimated Work Plan	560,000	-
Less: Projected Carry Forward from Previous Years	210,000	N/A
Gross Budget Request	350,000	-

2018/2019 Capital Budget Form

Project Name:	Controller Cabinet and Detection Program
Project Number:	CT000004
Budget Category:	Traffic Improvements
Project Type:	State of Good Repair
Discrete/Bundled:	Bundled
Project Manager:	Taso Koutroulakis

Project Summary:

Many of the controller cabinets that hold the electronic components that operate traffic signals have reached their life expectancy and/or are not adequate to hold the components required to run current systems such as conflict detection, communication, phasing plans and the Opticom emergency vehicle detection system. Also, upgrades to timers and communication are required to communicate to the iNet traffic control system which was installed as part of a previous project. This project will also include the installation and maintenance of vehicle and pedestrian detection equipment such as: inductive loops, cameras, radar and accessible pedestrian signals. Detection equipment is a key component to optimize the traffic signal network.

Total Capital Budget Request: (5 Years) \$ 2,920,000

Supports Outcome Area: Transportation (Council Priority)

Project Status: Planning

Approximate accuracy of budget estimate +25%

Capital Costs - Cash Flow

Fiscal Year	2018/19	2019/20	2020/21	2021/22	2022/23
Gross Budget:	300,000	980,000	530,000	550,000	560,000
Funding Source:					
	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	300,000	980,000	530,000	550,000	560,000

Fiscal Year	2023/24	2024/25	2025/26	2026/27	2027/28
Gross Budget:	570,000	585,000	605,000	620,000	620,000
Funding Source:					
	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	570,000	585,000	605,000	620,000	620,000

Detailed Work Plan:

	2018/19	2019/20
Installation of 140 modems (carry-over)	170,000	-
Replacement of 36 timers	150,000	-
Replacement of 10 traffic signal cabinet assemblies	170,000	-
Installation of 5 accessible pedestrian signals	50,000	-
Installation of detector equipment	200,000	-
Contingency to address unanticipated equipment failures	80,000	-
Work plan to be developed in 2018/19	-	980,000
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
Total Estimated Work Plan	820,000	980,000
Less Projected Carry Forward from Previous Years	520,000	N/A
Gross Budget Request	300,000	980,000

2018/2019 Capital Budget Form

Project Name:	Intersection Improvement Program
Project Number:	CTU01086
Budget Category:	Traffic Improvements
Project Type:	Service Improvements
Discrete/Bundled:	Bundled
Project Manager:	Taso Koutroulakis

Project Summary:

Improve safety and operation at intersections or specific roadway sections, through minor reconfiguration or lane use changes. This budget also includes the addition of pedestrian ramps at marked crosswalks to improve pedestrian connectivity and traffic calming initiatives.

Total Capital Budget Request: (5 Years) \$ 8,550,000

Supports Outcome Area: Transportation (Council Priority)

Project Status: Planning

Approximate accuracy of budget estimate +-25%

Capital Costs - Cash Flow

Fiscal Year	2018/19	2019/20	2020/21	2021/22	2022/23
Gross Budget:	150,000	1,900,000	2,000,000	1,800,000	2,700,000
Funding Source:	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	150,000	1,900,000	2,000,000	1,800,000	2,700,000

Fiscal Year	2023/24	2024/25	2025/26	2026/27	2027/28
Gross Budget:	2,780,000	2,860,000	2,945,000	3,040,000	3,040,000
Funding Source:	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	2,780,000	2,860,000	2,945,000	3,040,000	3,040,000

Detailed Work Plan:

	2018/19	2019/20
Chebucto/Windsor/Cunard - detailed design (carry-over)	150,000	-
Sackville/Sackville Cross Rd - traffic pole relocation (carry-over)	20,000	-
Sackville/Beaverbank - reduce curb radius (carry-over)	40,000	-
Coburg/Edward - bump-out (carry-over)	30,000	-
Northwest Arm/Old Sambro - pedestrian access improvements (design only)	80,000	-
Traffic Calming - various locations	200,000	-
Windmill/Lyle - traffic island modification	50,000	-
Larry Uteck/Bluewater - left turn lane (inbound)	250,000	-
Miscellaneous minor improvements (e.g. pedestrian ramp installations)	200,000	-
Sackville/Bambrick/Orchard - property acquisition	30,000	-
Work plan to be developed in 2018/19	-	1,900,000
	-	-
	-	-
	-	-
Total Estimated Work Plan	1,050,000	1,900,000
Less Projected Carry Forward from Previous Years	900,000	N/A
Gross Budget Request	150,000	1,900,000

2018/2019 Capital Budget Form

Project Name:	Opticom Signalization System
Project Number:	CEJ01220
Budget Category:	Traffic Improvements
Project Type:	Service Improvements
Discrete/Bundled:	Bundled
Project Manager:	Stephen Nearing

Project Summary:

The Opticom Signalization System, is a traffic control system that speeds up the traffic light process, to provide a green light and therefore intersection right-of-way, to emergency vehicles (does not speed up the pedestrian right of way signal). HRM Traffic and Right of Way and Halifax Regional Fire and Emergency Services, coordinate which intersections, based on high volume routes will be converted from the existing infrared technology to the upgraded GPS Opticom System.

Total Capital Budget Request: (5 Years) \$

400,000

Supports Outcome Area:

Healthy, Liveable Communities (Council Priority)

Project Status:

Design

Approximate accuracy of budget estimate

+/-10%

Capital Costs - Cash Flow

Fiscal Year	2018/19	2019/20	2020/21	2021/22	2022/23
Gross Budget:	80,000	80,000	80,000	80,000	80,000

Funding Source:	2018/19	2019/20	2020/21	2021/22	2022/23
Reserve Q531 - Fleet Vehicles & Equipment Re	80,000	80,000	80,000	80,000	80,000
	-	-	-	-	-
Total Funding:	80,000	80,000	80,000	80,000	80,000
Net Budget:	-	-	-	-	-

Fiscal Year	2023/24	2024/25	2025/26	2026/27	2027/28
Gross Budget:	80,000	80,000	80,000	80,000	80,000

Funding Source:	2023/24	2024/25	2025/26	2026/27	2027/28
Reserve Q531 - Fleet Vehicles & Equipment Re	80,000	80,000	80,000	80,000	80,000
	-	-	-	-	-
Total Funding:	80,000	80,000	80,000	80,000	80,000
Net Budget:	-	-	-	-	-

Detailed Work Plan:

	2018/19	2019/20
Completion of approximately 12 signalized intersections on the Halifax Mainland	80,000	-
Work plan to be developed in 2018/19	-	80,000
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
Total Estimated Work Plan	80,000	80,000
Less Projected Carry Forward from Previous Years	-	N/A
Gross Budget Request	80,000	80,000

2018/2019 Capital Budget Form

Project Name:	Street Lighting
Project Number:	CRU00792
Budget Category:	Traffic Improvements
Project Type:	State of Good Repair
Discrete/Bundled:	Bundled
Project Manager:	Taso Koutroulakis

Project Summary:

The Municipality has been active in developing a street light guideline that reflects: consistent application of recommended lighting design standards; improvement of urban design through uniform lighting installations; and reduction of energy consumption through utilization of energy efficient technologies. This project deals with the installation and replacement of street light infrastructure.

Total Capital Budget Request: (5 Years) \$

800,000

Supports Outcome Area:

Transportation (Council Priority)

Project Status:

Planning

Approximate accuracy of budget estimate

+-25%

Capital Costs - Cash Flow

Fiscal Year	2018/19	2019/20	2020/21	2021/22	2022/23
Gross Budget:	330,000	235,000	235,000	-	-
Funding Source:					
	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	330,000	235,000	235,000	-	-

Fiscal Year	2023/24	2024/25	2025/26	2026/27	2027/28
Gross Budget:	-	-	-	-	-
Funding Source:					
	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	-	-	-	-	-

Detailed Work Plan:

	2018/19	2019/20
Replacement of 4 power enclosures	150,000	-
Replacement of 10 ornamental poles and lights	30,000	-
Installation of 10 wood streetlight poles	25,000	-
Condition Assessment of poles/bases for decorative lights	75,000	-
Installation of 50 LED street lights	50,000	-
Development of electrical specifications	100,000	-
Contingency to address unanticipated failures	50,000	-
Work plan to be developed in 2018/19	-	235,000
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
Total Estimated Work Plan	480,000	235,000
Less Projected Carry Forward from Previous Years	150,000	N/A
Gross Budget Request	330,000	235,000

2018/2019 Capital Budget Form

Project Name:	Traffic Signal Installation
Project Number:	CTU01085
Budget Category:	Traffic Improvements
Project Type:	Service Improvements
Discrete/Bundled:	Bundled
Project Manager:	Taso Koutroulakis

Project Summary:

Installation of new traffic control such as traffic signals and crosswalk lights as per guidelines and technical warrants established by the Transportation Association of Canada. The traffic controls are installed to appropriately assign the right of way at intersections and to address public safety concerns.

Total Capital Budget Request: (5 Years) \$

3,420,000

Supports Outcome Area:

Transportation (Council Priority)

Project Status:

Planning

Approximate accuracy of budget estimate

+-25%

Capital Costs - Cash Flow

Fiscal Year	2018/19	2019/20	2020/21	2021/22	2022/23
Gross Budget:	400,000	750,000	750,000	750,000	770,000
Funding Source:					
	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	400,000	750,000	750,000	750,000	770,000

Fiscal Year	2023/24	2024/25	2025/26	2026/27	2027/28
Gross Budget:	790,000	815,000	840,000	865,000	865,000
Funding Source:					
	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	790,000	815,000	840,000	865,000	865,000

Detailed Work Plan:

	2018/19	2019/20
Chain Lake/Horseshoe Lake - traffic signals (carry-over)	106,000	-
Wright/Wilkinson - traffic signals	300,000	-
Sackville/Beaconsfield/Executive - RRFB crosswalk	40,000	-
Bissett/Salt Marsh Trail - RRFB crosswalk	20,000	-
Bissett/Rehab Centre - RRFB crosswalk	20,000	-
Larry Uteck/Civic 420 - RRFB crosswalk	20,000	-
Caldwell/Atholea - RRFB crosswalk	20,000	-
Contingency	64,000	-
Work plan to be developed in 2018/19	-	750,000
	-	-
	-	-
	-	-
	-	-
	-	-
Total Estimated Work Plan	590,000	750,000
Less Projected Carry Forward from Previous Years	190,000	N/A
Gross Budget Request	400,000	750,000

2018/2019 Capital Budget Form

Project Name:	Traffic Signal Rehabilitation
Project Number:	CTU00419
Budget Category:	Traffic Improvements
Project Type:	State of Good Repair
Discrete/Bundled:	Bundled
Project Manager:	Taso Koutroulakis

Project Summary:

HRM owns and operates approximately 268 traffic signals and 180 RA-5 crosswalk lights. An ongoing rehabilitation program is required so that these installations provide adequate traffic control service and are structurally sound. The objective of this program is to achieve a sustainable level of structural and operation soundness for the HRM's inventory of traffic signal hardware.

Total Capital Budget Request: (5 Years) \$ 5,330,000

Supports Outcome Area: Transportation (Council Priority)

Project Status: Planning

Approximate accuracy of budget estimate +-25%

Capital Costs - Cash Flow

Fiscal Year	2018/19	2019/20	2020/21	2021/22	2022/23
Gross Budget:	700,000	1,950,000	1,680,000	1,000,000	-
Funding Source:					
	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	700,000	1,950,000	1,680,000	1,000,000	-

Fiscal Year	2023/24	2024/25	2025/26	2026/27	2027/28
Gross Budget:	-	-	-	-	-
Funding Source:					
	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	-	-	-	-	-

Detailed Work Plan:

	2018/19	2019/20
Robie/South - full rehabilitation	320,000	-
Prince Albert/Hawthorne - full rehabilitation	250,000	-
Robie/Quinpool - replace underground wiring	50,000	-
Crosswalk Upgrades - various locations	400,000	-
Traffic signal wire	50,000	-
Contingency	150,000	-
Work plan to be developed in 2018/19	-	1,950,000
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
Total Estimated Work Plan	1,220,000	1,950,000
Less: Projected Carry Forward from Previous Years	520,000	N/A
Gross Budget Request	700,000	1,950,000

Capital Project Supplementary Report

Project Name: Active Transportation	Project # CTU00420
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APPROVED NEW SIDEWALK CARRY FORWARD PROJECTS

PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Windmill Rd	Seapoint	Bancroft	6	\$90,000
Coronation Ave	Willett	Gesner	10	\$149,000
Coronation Ave	Willett	Hillcrest	10	\$190,000
Total Estimate New Sidewalk Carry Forward Projects				\$429,000

APPROVED MULTI-USE PATHWAY CARRY FORWARD PROJECTS

PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
HRM				
Porter's Lake Metro X AT Connection	Park and ride parking lot	Blueberry Trail across highway	2	\$435,000
Burnside Dr Greenway (Design Only)	Commodore	Wright	6	\$85,000
Windmill Rd	Wright	Victoria	6	\$319,000
Halifax Regional Trails Association (HRTA) Proposed, HRM Implemented				
Mainland North Connector Active Greenway Transportation Upgrade			10/12	\$388,000
Sackville Greenway			15	\$1,029,500
Sackville-Bedford Greenway - Realignment and Recapitalize Segment	Adjacent to 1746 Bedford Highway		16	\$125,000
HRTA Group Implemented				
River-Lake Greenway Planning Studies (Shubie Watershed Environmental Society)			1	\$40,000
Eastern Shore AT			2	\$110,000
Gaetz Brook AT Greenway Bridge Assessment and Upgrade			2	\$50,000
Beechville, Lakeside, Timberlea Trail - Recapitalization			12	\$13,000
Crimson Dr to Sackville Lakes Park Parking Lot (Sackville Lakes Parks & Trail) - New Greenway Segment			15	\$86,000
Total Estimate Multi-Use Pathway Carry Forward Projects				\$2,680,500

APPROVED AT GENERAL CARRY FORWARD PROJECTS

PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Dartmouth Harbourfront Greenway (Ochterloney)			5	\$100,000
Morris - University Bikeway - Planning	Lemarchant	Lower Water	7	\$50,000
Barrington Greenway - Planning	North	Niobi Gate	8	\$50,000
Chain of Lakes Greenway - Railing System	Various Locations		9	\$100,000
Chain of Lakes Greenway - Wayfinding Signage and Enhancements	Various Locations		9	\$50,000
Bedford West Greenways (Sidewalk Oversizing)	Bedford West Streets		16	\$112,500
AT Planning Studies (Africville, Rainnie, Brunswick)	Various Locations		Various	\$58,000
Total Estimate AT General Carry Forward Projects				\$520,500

APPROVED BIKE LANE CARRY FORWARD PROJECTS

PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Fall River Rd and Lockview Rd (Halifax Water Integration)	Blue Hill	148 Lockview	1	\$400,000
Total Estimate Bike Lane Carry Forward Projects				\$400,000

TOTAL ESTIMATE CARRY FORWARD PROJECTS	\$4,030,000
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2018/2019 NEW SIDEWALK PROJECTS

Capital Project Supplementary Report

Project Name: Active Transportation			Project # CTU00420	
PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Auburn Dr	Hillsboro	Civic 14	4	\$217,000
Auburn Dr	Bus Stops		4	\$58,000
Clyde St	Prince Arthur	Milverton	5	\$40,000
Mount Hope Ave	Acadia	Estates	5	\$25,000
Sinclair St	Existing at Berwick	Crosswalk at Highwood	5	\$69,000
Athorpe Dr	Civic 46	Opposite Civic 27	6	\$100,000
Booth St	Bus Stops		6	\$58,000
Kennedy Dr	Caledonia	David	6	\$297,000
Eastview Dr	Glenora	Civic 14	9	\$34,000
Main Ave	Bus Stops		10	\$173,000
Total Estimate New Sidewalk Projects				\$1,071,000
2018/19 NEW AT DETAILED DESIGN				
PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Forest Hills Parkway			4	\$200,000
North West Arm Greenway			9	\$60,000
Total Estimate New AT Detailed Design				\$260,000
2018/19 NEW BIKE LANE PROJECTS				
PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Trunk 7	Start of asphalt	Wilfred Jackson	4	\$117,000
Trunk 7	End of concrete	Wilfred Jackson	4	\$121,000
Wyse Rd	Boland	Albro Lake	5	\$15,000
Ahern Ave	Bell	Cogswell	7	\$300,000
South Park St	Spring Garden	Inglis	7	\$435,000
Almon St	Windsor	Gottingen	8	\$300,000
North St	Northwood	Agricola	8	\$15,000
Total Estimate New Bike Lane Projects				\$1,303,000
2018/19 NEW LOCAL STREET BIKEWAY PROJECTS				
PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Vernon St and Seymour St	Quinpool	University	7	\$500,000
Allan St and Oak St	Connaught	Windsor	8/9	\$500,000
Total Estimate New Local Street Bikeway Projects				\$1,000,000
2018/19 NEW MULTI-USE PATHWAY PROJECTS				
PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
HRM				
Atlantic St	Estates	Pleasant	5	\$465,000
Estates Rd	Mount Hope	Atlantic	5	\$176,000
Mount Hope Ave	Orion	Estates	5	\$240,000
Halifax Regional Trails Association (HRTA) Proposed, HRM Implemented				
Bissett Greenway	End of current trail	Bissett Rd at driveway	4	\$450,000
Multi-Use Capital and Rec-Cap - HRTA Implemented				
Atlantic View Trail			2	\$20,000
Musquodoboit Trailway			2	\$12,000
Salt Marsh Trail			2	\$53,000
Beechville, Lakeside, Timberlea Trail - Recapitalization			12	\$13,000
St. Margaret's Bay Trail			13	\$75,000
Multi-Use HRM Parks Recapitalization				
Dartmouth Common			5	\$30,000
Shubie Asphalt at Micmac and Highway 111, Grahams Grove			6	\$30,000
Total Estimate New Multi-Use Pathway Projects				\$1,564,000
2018/19 HRTA IMPLEMENTED PLANNING AND DESIGN				
PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Little River Greenway			2	\$17,000
Beaver Bank to Canopy Creek			15	\$23,000
Ft. Sackville Walkway & Bedford-Sackville Connector			15/16	\$60,000

Capital Project Supplementary Report

Project Name: Active Transportation	Project # CTU00420			
Total Estimate HRTA Implemented Planning and Design		\$100,000		
2018/19 FUNCTIONAL STUDIES				
PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
North Preston AT Planning			2	\$30,000
Lyle-Shore Local Street Bikeway			5	\$20,000
Peninsula Intersection Studies (Bell/Ahern and Bell/Summer/Trollope)			7	\$30,000
Northend Local Street Bikeway			8	\$40,000
Welsford, Allan, Windsor, North Common Connections			8	\$30,000
Westend Local Street Bikeway			9	\$20,000
Total Estimate Functional Studies				\$170,000
2018/19 ACTIVE TRANSPORTATION GENERAL PROJECTS				
AT Integration Opportunities			Various	\$22,000
AT Amenities - Bike Parking			Various	\$30,000
Additional AT Planning Resource				\$100,000
Additional AT Planning Resource				\$100,000
Total Estimate AT General Projects				\$252,000
TOTAL ESTIMATE NEW PROJECTS				\$5,720,000
TOTAL 2018/19 WORKPLAN				\$9,750,000
SUMMARY OF BUDGET BREAKDOWN				
2018/19 AT Budget				\$4,100,000
Projected Carry Forward from Previous Years				\$5,650,000
TOTAL BUDGET				\$9,750,000

Capital Project Supplementary Report

Project Name: Bridges	Project # CRU01077
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APPROVED CARRY FORWARD PROJECTS

PROJECT/LOCATION	DISTRICT	ESTIMATE
BR26 Lady Hammond Rd Inspection	8	\$15,000
BR26 Lady Hammond Rd Bridge Repair work	8	\$270,000
BR65 Rosley Rd Bridge Replacement design	14	\$100,000
Completion of Various Bridge Maintenance and Engineering Fees Already Awarded	Various	\$65,000
NSTIR Cost Sharing Bridges BR131/BR128/BR115	Various	\$80,000

TOTAL ESTIMATE CARRY FORWARD PROJECTS	\$530,000
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2018/2019 NEW PROJECTS

PROJECT/LOCATION	DISTRICT	ESTIMATE
BR122 Shore Rd Design	3	\$100,000
BR57 Replace Timber Crib Abutments, Including Detail Design	2/4	\$220,000
BR57 Walker Bridge Detail Design for Bridge Replacement	2/4	\$100,000
BR49 Kimberley Cres Pedway Design and Construction	6	\$200,000
BR159 Tobin Dr Design	6	\$50,000
BR26 Lady Hammond Rd Detail Design and Repair Work	8	\$280,000
BR24 CN Quinpool Rd Construction	9	\$845,000
BR41 Lucasville Bridge Soffit and Concrete Repairs, Joint Replacement, Including Design	14	\$480,000
BR124 Moirs Mill Lake Pedestrian Bridge Replacement Design	16	\$100,000
Miscellaneous Bridge Repairs/Designs/Inspections	Various	\$110,000
NSTIR Integration Projects	Various	\$375,000
Wooden Railing Replacements	Various	\$200,000

TOTAL ESTIMATE NEW PROJECTS	\$3,060,000
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TOTAL 2018/19 WORKPLAN	<u>\$3,590,000</u>
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SUMMARY OF BUDGET BREAKDOWN

2018/19 Bridge Budget	\$2,500,000
Projected Carry Forward from Previous Years	<u>\$1,090,000</u>
TOTAL BUDGET	<u>\$3,590,000</u>

Capital Project Supplementary Report

Project Name: New Paving Streets - HRM Owned Roads				Project # CR000002	
PROJECT/LOCATION	FROM	TO	LIC	DISTRICT	ESTIMATE
Silver Crt	Spruce	Cul De Sac	YES	3	\$91,000
Raines Mill Rd	Trunk 3	Cul De Sac	YES	12	\$166,250
Chalamont Dr	End of Asphalt	Cul De Sac	YES	13	\$91,000
Northwood Rd	End of Asphalt	Cul De Sac	YES	13	\$24,500
Old Annapolis Rd	Pockwock	Byblos	YES	13	\$100,450
Carrie Cres	Danny	Cul De Sac	YES	14	\$124,250
Gardeners Walk	End of Asphalt	Cul De Sac	YES	14	\$68,250
Trinity Ln	Beaver Bank	End of Gravel	YES	14	\$365,750
TOTAL ESTIMATE NEW PROJECTS					\$1,031,450
TOTAL 2018/19 WORKPLAN					<u>\$1,031,450</u>
SUMMARY OF BUDGET BREAKDOWN					
2018/19 HRM Funding					\$0
2018/19 Local Improvement Charge **					\$343,817
Projected Carry Forward from Previous Years					<u>\$687,633</u>
TOTAL BUDGET					<u>\$1,031,450</u>

** 1/3 Residents, 2/3 HRM cost sharing pursuant to the new process approved by Council in 2017

Capital Project Supplementary Report

Project Name: New Paving Subdivision Streets - Provincial				Project # CR990001	
PROJECT/LOCATION	FROM	TO	LIC	DISTRICT	ESTIMATE
Bayshore Dr	Prospect	End	Yes	11	\$88,000
Birchpond Crt	Tara	End	Yes	11	\$56,000
Delmerle Dr	Tara	End	Yes	11	\$324,000
Maple Dr	Terence Bay	Delmerle	Yes	11	\$52,000
Prospect River Crt	Forest Glade	End	Yes	11	\$196,000
Tara Dr	Terrance Bay	Birchpond	Yes	11	\$188,000
Tidal Way	Bayshore	End	Yes	11	\$76,000
TOTAL ESTIMATE NEW PROJECTS					\$980,000
TOTAL 2018/19 WORKPLAN					\$980,000
SUMMARY OF BUDGET BREAKDOWN					
2018/19 Provincial Funding (Aid to Municipalities)**					\$490,000
2018/19 Local Improvement Charge					\$490,000
TOTAL BUDGET					\$980,000

****Requires Approval of Funding from Nova Scotia Department of Transportation and Infrastructure Renewal (NSTIR)**

Capital Project Supplementary Report

Project Name: Other Road Related Works	Project # CRU01079
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APPROVED CARRY FORWARD PROJECTS

Guide Rail (New and Replace Existing) Projects

PROJECT/LOCATION	DISTRICT	ESTIMATE
1358 Cobequid Rd	1	\$35,000
Cobequid Rd at Regwood Dr	1	\$20,000
Rocky Lake Dr - Civic 2030	1	\$20,000
Waverley Rd (Multiple Locations)	1	\$150,000
Waverley Rd Under Hwy 118	1	\$20,000
Ross Rd at Salmon River Rd	4	\$30,000
Barrington St MacKay Bridge Approaches	8	\$110,000
Cliff St	16	\$12,000
Total Estimate Guiderail Carry Forward Projects		\$397,000

Walkway Projects

PROJECT/LOCATION	DISTRICT	ESTIMATE
2320 Armcrescent West Ave - 2291 Quinn St	9	\$11,000
15 Fourth St to 15 Panorama Ln	16	\$75,000
Total Estimate Walkways Carry Forward Projects		\$86,000

Retaining Wall Projects

PROJECT/LOCATION	DISTRICT	ESTIMATE
Purcell's Cove Rd at Williams Lake Rd Investigation and Design	9	\$35,000
Coronation Dr (Hillcrest to Willett) New Construction	10	\$75,000
Cliff St	16	\$157,000
Total Estimate Retaining Wall Carry Forward Projects		\$267,000

TOTAL ESTIMATE CARRY FORWARD PROJECTS **\$750,000**

2018/2019 NEW PROJECTS

Guide Rail (New and Replace Existing) Projects

PROJECT/LOCATION	DISTRICT	ESTIMATE
Rocky Lake Dr across from Civic 927	1	\$80,000
Rocky Lake Dr across from Civic 1561	1	\$100,000
Sinclair St (Multiple Locations)	5	\$55,000
22 Herring Cove Rd	9	\$40,000
1087-1157 Old Sackville Rd	14	\$60,000
Miscellaneous Guide Rail Repair TBD	Various	\$50,000
Total Estimate Guide Rail Projects		\$385,000

Walkway Projects

La Pierre Cres to Cranberry Cres	3	\$65,000
Londra Crt to Cranberry Cres, Sabra Crt, and Tantling Cres	3	\$45,000

Capital Project Supplementary Report

Project Name: Other Road Related Works	Project # CRU01079	
Mount Edward Rd to Hibernia Crt	3	\$20,000
Wamphray Cres to Orquel Crt	3	\$20,000
Allison Dr to Astral Dr	4	\$20,000
Allison Dr to Spence Dr	4	\$25,000
Colby Dr to Carnaby Cres	4	\$20,000
Fairbanks St to Geary St/Windmill Rd (Design)	5	\$35,000
Laurel Ln to Sumac Ln	10	\$40,000
Ridgeview Dr to Prince St	15	\$15,000
15 Fourth St to 15 Panorama Ln	16	\$75,000
Doyle St to Basinview Dr	16	\$30,000
Miscellaneous Walkways TBD	Various	\$50,000
Total Estimate Walkway Projects		<u>\$460,000</u>
Retaining Wall Projects		
2342 Waverley Rd	1	\$200,000
48 Cadet Road	3	\$290,000
91 Prince Albert Rd at Eaton Rd	5	\$140,000
North St (Dartmouth) Construction	5	\$125,000
Sinclair St (Multiple Locations)	5	\$25,000
Vestry St at Lynch St	8	\$130,000
Herring Cove Rd - after Windermere Rd	9	\$140,000
Main Ave - Titus to Dunbrack (South Edge)	10	\$55,000
Miscellaneous Retaining Walls to be determined	Various	\$100,000
Total Estimate Retaining Wall Projects		<u>\$1,205,000</u>
Legal Surveys		
Herring Cove Rd Legal Survey	9	\$50,000
Miscellaneous Legal Surveys	Various	\$50,000
Total Estimate Legal Surveys		<u>\$100,000</u>
GIS Technician Record Information (Term)		\$100,000
Data Entry Clerk Asset Management (Term)		\$25,000
Materials Testing and Inspection		\$500,000
Retaining Wall Inventory Assessment		\$50,000
Studies/Reports/Geotechnical Investigations/Pavement Designs		\$500,000
Survey/Design Equipment for Capital Projects		\$100,000
Survey Work for Pavement Markings		\$50,000
TOTAL ESTIMATE NEW PROJECTS		<u>\$3,475,000</u>
TOTAL 2018/19 WORKPLAN		<u><u>\$4,225,000</u></u>
SUMMARY OF BUDGET BREAKDOWN		
2018/19 Other Road Related Works Budget		\$2,250,000
Projected Carry Forward from Previous Years		<u>\$1,975,000</u>
TOTAL BUDGET		<u><u>\$4,225,000</u></u>

2018/2019 Capital Budget Form

Project Name:	Road Operations and Construction - State of Good Repair
Project Number:	CR990002
Budget Category:	Roads & Active Transportation
Project Type:	State of Good Repair
Discrete/Bundled:	Bundled
Project Manager:	Bev Audet

Project Summary:

Maintenance to the transportation network and includes activities such as asphalt maintenance (spreader patching, skin patching, etc.) sidewalk slab replacement, bridge, retaining wall and guide rail maintenance and minor drainage issues.

Total Capital Budget Request: (5 Years) \$ 20,120,000

Supports Outcome Area: Transportation (Council Priority)

Project Status: Planning

Approximate accuracy of budget estimate +35%

Capital Costs - Cash Flow

Fiscal Year	2018/19	2019/20	2020/21	2021/22	2022/23
Gross Budget:	4,000,000	4,000,000	4,000,000	4,000,000	4,120,000
Funding Source:	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	4,000,000	4,000,000	4,000,000	4,000,000	4,120,000

Fiscal Year	2023/24	2024/25	2025/26	2026/27	2027/28
Gross Budget:	4,245,000	4,370,000	4,500,000	4,635,000	4,635,000
Funding Source:	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	4,245,000	4,370,000	4,500,000	4,635,000	4,635,000

Detailed Work Plan:

	2018/19	2019/20
Asphalt repairs (spreader patching, skin patching, etc.)	1,800,000	-
Bridges (concrete, rails, timber, washing expansion joints and flushing drainage systems)	480,000	-
Sidewalk slab replacement, curb repairs	962,000	-
Drainage projects	320,000	-
Tree stump removal	438,000	-
Work plan to be developed in 2018/19	-	4,000,000
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
Total Estimated Work Plan	4,000,000	4,000,000
Less: Projected Carry Forward from Previous Years	-	N/A
Gross Budget Request	4,000,000	4,000,000

2018/2019 Capital Budget Form

Project Name:	Sidewalk Renewals
Project Number:	CKU01084
Budget Category:	Roads & Active Transportation
Project Type:	State of Good Repair
Discrete/Bundled:	Bundled
Project Manager:	David Hubley

Project Summary:

Existing sidewalks are rated on a two year cycle to identify defective slabs. Sidewalk Renewal Projects are selected based on the percentage of defective slabs and integration opportunities with other road related projects. This program also includes funding to perform sidewalk, curb and crosswalk condition rating assessments.

Total Capital Budget Request: (5 Years) \$	18,120,000
Supports Outcome Area:	Transportation (Council Priority)
Project Status:	Planning
Approximate accuracy of budget estimate	+35%

Capital Costs - Cash Flow

Fiscal Year	2018/19	2019/20	2020/21	2021/22	2022/23
Gross Budget:	2,750,000	3,500,000	3,750,000	4,000,000	4,120,000
Funding Source:					
	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	2,750,000	3,500,000	3,750,000	4,000,000	4,120,000

Fiscal Year	2023/24	2024/25	2025/26	2026/27	2027/28
Gross Budget:	4,245,000	4,370,000	4,500,000	4,635,000	4,635,000
Funding Source:					
	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	4,245,000	4,370,000	4,500,000	4,635,000	4,635,000

Detailed Work Plan:

	2018/19	2019/20
Refer to attached work plan.	4,500,000	-
Work plan to be developed in 2018/19	-	3,500,000
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
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	-	-
	-	-
	-	-
	-	-
Total Estimated Work Plan	4,500,000	3,500,000
Less: Projected Carry Forward from Previous Years	1,750,000	N/A
Gross Budget Request	2,750,000	3,500,000

Capital Project Supplementary Report

Project Name: Sidewalk Renewal	Project # CKU01084
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APPROVED CARRY FORWARD PROJECTS

PROJECT/LOCATION	FROM	TO	DIRECTION	DISTRICT	ESTIMATE
Trunk 7 (Property Acquisition)	Hillsboro	End of Asphalt Swk	N	4	\$20,000
Armccrescent West Ave	First	Benjamin Green	W	9	\$130,000
Benjamin Green Ave	Chebucto	Armccrescent	E/W	9	\$35,000
South Armccrescent Ave	First	Quinpool	W	9	\$25,000
Coronation Ave	Hillcrest	Alex	N	10	\$170,000
Coronation Ave	Alex	Birch	N	10	\$145,000
TOTAL ESTIMATE CARRY FORWARD PROJECTS					\$525,000

APPROVED 2017/18 POTENTIAL PROJECTS

PROJECT/LOCATION	FROM	TO	DIRECTION	DISTRICT	ESTIMATE
Ahern Ave	School driveway	New concrete	W	7	\$115,000
TOTAL ESTIMATE 2017/18 POTENTIAL PROJECTS					\$115,000

2018/2019 NEW PROJECTS

PROJECT/LOCATION	FROM	TO	DIRECTION	DISTRICT	ESTIMATE
Mount Edward Rd	Gerald	Cranberry	S	3	\$85,000
Trunk 7	Start of asphalt	Wilfred Jackson	N	4	\$725,000
Trunk 7	End of concrete	Wilfred Jackson	S	4	\$685,000
Sinclair St	Hawthorne	Civic 13	N	5	\$30,000
Sinclair St	Highwood	Medford	S	5	\$40,000
Roleika Dr	Kennedy	Ruben	W	6	\$35,000
Coburg - Spring Garden	Henry	Carlton	N/S	7	\$100,000
Linden St	Garden	Vernon	N	7	\$55,000
Vernon St	Watt	Jubilee	E	7	\$75,000
Vernon St	Jubilee	Watt	W	7	\$70,000
Vernon St	Cedar	Linden	W	7	\$45,000
Allan St	Harvard	Monastery	S	8	\$120,000
Allan St	Harvard	Chebucto	N	8	\$200,000
Allan St	Oxford	Harvard	S	8	\$45,000
Gottingen St	Russell	Macara	E	8	\$30,000
Robie St	Basinview	Memorial	W	8	\$35,000
Kearney Lake Rd	Cambria Park	Broadholme	W	10/12	\$235,000
Curb/Sidewalk Integration/Spot Repairs				Various	\$500,000
Sidewalk/Pedestrian Ramp Upgrades (Tactile Strips, etc.)				Various	\$500,000
Sidewalk, Curb and Crosswalk Condition Rating Assessment					\$250,000
TOTAL ESTIMATE NEW PROJECTS					\$3,860,000

TOTAL 2018/19 WORKPLAN

\$4,500,000

SUMMARY OF BUDGET BREAKDOWN

2018/19 Sidewalk Renewal Budget	\$2,750,000
Projected Carry Forward from Previous Years	\$1,750,000
TOTAL BUDGET	\$4,500,000

Capital Project Supplementary Report

Project Name: Street Recapitalization	Project # CR000005
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APPROVED CARRY FORWARD PROJECTS

PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Elmridge Dr	Rolling Hills	End	1	\$755,000
Overbrook Dr	Rolling Hills	End	1	\$240,000
Stayner Dr	Overbrook	Stoney Ridge	1	\$495,000
Badger Ave	Rattling	End	4	\$170,000
Rattling Ave	Gander	Badger	4	\$225,000
Coburg Rd - Spring Garden Rd	Henry	Carlton	7	\$170,000
Gottingen St	Young	Almon	8	\$610,000
Kaye St	Young	Gottingen	8	\$130,000
Armcrescent Ave E/W	First	Benjamin Green	9	\$415,000
Benjamin Green Dr	Armcrescent	Chebucto	9	\$55,000
First St	Connaught	Armcrescent West	9	\$145,000
South Armcrescent St	First	Quinpool	9	\$60,000
Third St	Newton	Connaught	9	\$20,000
Coronation Ave	Gesner	Birch	10	\$825,000
Eastcoast Crt	Rockhaven	End	10	\$10,000
Rockhaven Dr	Woodbury	Falcon	10	\$415,000
Woodcrest Ave	Herring Cove	End	11	\$420,000
White Birch Dr	Johnson	Riverwood	12	\$545,000
Cliff St	Bedford Hwy	Pine	16	\$60,000
Doyle St	Hammonds Plains	Landsburg	16	\$645,000
Asphalt Overlays			Various	\$530,000
TOTAL ESTIMATE CARRY FORWARD PROJECTS				\$6,940,000

APPROVED 2017/18 POTENTIAL PROJECTS

PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Bissett Rd	Cole Harbour	Former Rehab Centre	4	\$580,000
Ahern Ave	Bell	Rainnie	7	\$145,000
High St	Lady Hammond	Leeds	8	\$265,000
Pockwock Rd	Old Annapolis	Civic 1238	13	\$920,000
TOTAL ESTIMATE 2017/18 POTENTIAL PROJECTS				\$1,910,000

2018/2019 NEW PROJECTS

PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Charleswood Dr	Windgate	End	1	\$525,000
Windgate Dr	Cumberland	Windsor Junction	1	\$640,000
Clarence St	Johnson	Cain	2	\$125,000
Londra Crt	Cranberry	Cul De Sac	3	\$230,000
Orquel Crt	Cranberry	Cul De Sac	3	\$180,000
Spruce Dr	Dyke	End	3	\$205,000
Wamphray Cres	Cranberry	Cranberry	3	\$415,000
Allison Dr	Brookfield	Spence	4	\$430,000
Armbro Ln	Cole Harbour	End	4	\$290,000
Auburn Dr	Hillsboro	Leander	4	\$720,000
Colby Dr	Greenwich	Deerbrooke	4	\$725,000
Atlantic St	Pleasant	Estates	5	\$445,000
Chadwick St	Pleasant	Glenview	5	\$665,000
Estates Rd	Atlantic	Mount Hope	5	\$230,000
Glenview Dr	Chadwick	Renfrew	5	\$80,000
Mount Hope Ave	20m past Orion	Acadia	5	\$420,000
Sinclair St	Hawthorne	Prince Albert	5	\$640,000
Athorpe Dr	Bowser	Woodlawn	6	\$645,000
Booth St	Kennedy	Main	6	\$340,000
Kennedy Dr	Caledonia	David	6	\$760,000
Roleika Dr	Kennedy	Caledonia	6	\$760,000
Cherry St	Robie	Vernon	7	\$110,000
Coburg Rd - Spring Garden Rd	Henry	Summer	7	\$270,000
Emscote Dr	Francklyn	Francklyn	7	\$300,000

Capital Project Supplementary Report

Project Name: Street Recapitalization			Project # CR000005	
Garden St	Jubilee	Shirley	7	\$145,000
Linden St	Garden	Vernon	7	\$45,000
Macleod Dr	Francklyn	Cul De Sac	7	\$125,000
Vernon St	Coburg	Quinpool	7	\$285,000
Allan St	Windsor	Oxford	8	\$390,000
Memorial Dr	Lady Hammond	Robie	8	\$170,000
Monastery Ln	Quinpool	Allan	8	\$275,000
Robie St	Hillside	Memorial	8	\$535,000
Botany Terr	Brook	Cul De Sac	9	\$130,000
Eastview Dr	Glenora	Rexdale	9	\$100,000
Homecrest Terr	Brook	Cul De Sac	9	\$80,000
Rexdale Ave	Eastview	End	9	\$100,000
Samuel Terr	Brook	Cul De Sac	9	\$105,000
Cedarbrae Ln	Lacewood	Cul De Sac	10	\$135,000
Dunbrack St	Kearney Lake	Ross	10	\$175,000
Kearney Lake Rd	Dunbrack	Hwy 102	10	\$350,000
Laurel Ln	Gateway	Cul De Sac	10	\$125,000
Laurentide Dr	Bayview	Gateway	10	\$520,000
Sumac Ln	Lacewood	Cul De Sac	10	\$205,000
Carnation Cres	Leiblin	Leiblin	11	\$255,000
Fotherby Ave	Herring Cove	End	11	\$85,000
Frances Crt	Woodcrest	Cul De Sac	11	\$100,000
Holly Dr	Fotherby	Marie	11	\$135,000
Marie Ave	Herring Cove	Holly	11	\$85,000
Ursula Crt	Woodcrest	Cul De Sac	11	\$100,000
Dunbrack St	Kearney Lake	Ross	12	\$175,000
Kearney Lake Rd	Dunbrack	Hwy 102	12	\$350,000
Chalamont Dr	Kimara	End of Pavement	13	\$610,000
Northwood Rd	Hammonds Plains	End of Pavement	13	\$125,000
St Georges Blvd	Citation	Matthew	13	\$515,000
Lakeland St	Pinehaven	End	14	\$975,000
Pinehaven Dr	Beaver Bank	End	14	\$660,000
Trinity Ln	Mayflower	End of Asphalt	14	\$90,000
Cockburn Crt	Cockburn	Cul De Sac	15	\$165,000
Cockburn Dr	Mayfair	MacDougall	15	\$210,000
Mayfair Ave	Raymond	Raymond	15	\$210,000
Ridgeview Dr	Belleshire	Cul De Sac	15	\$550,000
Steeves Crt	Cockburn	Cul De Sac	15	\$170,000
Armoyan Crt	Peregrine	Cul De Sac	16	\$75,000
Eagle Pl	Eaglewood	Cul De Sac	16	\$105,000
Eaglewood Dr	Dartmouth	Golf Links	16	\$435,000
Golf Links Rd	Dartmouth	Eaglewood	16	\$275,000
Peregrine Cres	Eaglewood	Eaglewood	16	\$370,000
Asphalt Overlays			Various	\$3,600,000
Chipseal			Various	\$250,000
Crack Sealing			Various	\$500,000
Micro Surfacing			Various	\$1,100,000
Miscellaneous Road Repairs			Various	\$125,000
Street Planer Patching			Various	\$1,000,000
Additional Design Resources				\$200,000
Additional Construction Resources				\$100,000
High Speed Pavement Condition Data Collection				\$225,000
TOTAL ESTIMATE NEW PROJECTS				\$28,070,000
TOTAL 2018/19 WORKPLAN				\$36,920,000
SUMMARY OF BUDGET BREAKDOWN				
2018/19 Street Recapitalization Budget				\$26,700,000
Pavement Impact Funds				\$900,000
Projected Carry Forward from Previous Years				\$9,320,000
TOTAL BUDGET				\$36,920,000

2018/2019 Capital Budget Form

Project Name:	MacKintosh Depot Replacement
Project Number:	CB000089
Budget Category:	Buildings
Project Type:	State of Good Repair
Discrete/Bundled:	Discrete
Project Manager:	John MacPherson

Project Summary:

This account covers the replacement of the existing MacKintosh Depot and associated site works.

Total Capital Budget Request: (5 Years) \$ 13,500,000

Supports Outcome Area: Healthy, Liveable Communities (Council Priority)

Project Status: Conceptual

Approximate accuracy of budget estimate +-25%

Capital Costs - Cash Flow

Fiscal Year	2018/19	2019/20	2020/21	2021/22	2022/23
Gross Budget:	750,000	10,750,000	2,000,000	-	-
Funding Source:					
	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	750,000	10,750,000	2,000,000	-	-

Fiscal Year	2023/24	2024/25	2025/26	2026/27	2027/28
Gross Budget:	-	-	-	-	-
Funding Source:					
	-	-	-	-	-
	-	-	-	-	-
Total Funding:	-	-	-	-	-
Net Budget:	-	-	-	-	-

Detailed Work Plan:

	2018/19	2019/20
Design	750,000	-
Construction Year 1	-	10,750,000
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
Total Estimated Work Plan	750,000	10,750,000
Less: Projected Carry Forward from Previous Years	-	N/A
Gross Budget Request	750,000	10,750,000