



City of Richmond

Report to Committee

To: Finance Committee

Date: April 9, 2019

From: Jerry Chong, CPA, CA
Director, Finance

File: 03-1200-05/2019-Vol
01

Re: Active Capital Projects Information - 1st Quarter March 31, 2019

Staff Recommendation

That the staff report titled, "Active Capital Projects Information - 1st Quarter March 31, 2019", dated April 9, 2019 from the Director, Finance be received for information.

Jerry Chong, CPA, CA
Director, Finance
(604-276-4064)

Att. 2

REPORT CONCURRENCE		
ROUTED TO:	CONCURRENCE	CONCURRENCE OF GENERAL MANAGER
Engineering	<input checked="" type="checkbox"/>	
Facilities	<input checked="" type="checkbox"/>	
Parks Services	<input checked="" type="checkbox"/>	
Fleet	<input checked="" type="checkbox"/>	
Sustainability	<input checked="" type="checkbox"/>	
Fire Rescue	<input checked="" type="checkbox"/>	
Transportation	<input checked="" type="checkbox"/>	
Information Technology	<input checked="" type="checkbox"/>	
REVIEWED BY STAFF REPORT / AGENDA REVIEW SUBCOMMITTEE	INITIALS: 	APPROVED BY CAO

Staff Report

Origin

Active Capital Project Information for the 1st quarter (ended March 31, 2019) is being provided to the Finance Committee for information. This report includes the approved 2019 Capital Budget and other previously approved capital projects.

Analysis

Active Capital Projects Summary

Active Capital projects represent capital projects previously approved by Council. Projects include construction projects that are in various stages of completion:

Planning and Design – includes projects that were approved in the 2019 budget and other previously approved projects that are undergoing design specifications, design approvals, or public consultation.

Contract Award – this includes preparing to issue a request for proposal, evaluating the proposals received, and finalizing contract award agreements.

Construction – includes build out of the approved design either by City forces or under the executed agreements.

Functional Completion – certain projects are completed in phases that allow for portions of the project to be functionally complete while the next phase is initiated.

Project Completion – may include fully functional assets that are in their final inspection and acceptance stage, which may still require minor deficiencies to be addressed, as-built drawings to be received, collection of grant funding and fulfillment of audit requirements, where applicable.

Final Completion – All aspects of the project are complete including the one year deficiency period which leads to the project removal from the active capital project list and return of any unspent funds to its original funding sources.

A Capital Project is considered active for the purposes of this report if the project is in any of the above stages (except Final Completion). Generally, projects are completed within three years; however due to complexities at each stage it is not unusual for a project to take longer than three years to see through to Final Completion.

Projects also include amounts set aside for Land acquisition, Public Art, Child Care and Affordable Housing which are dependent upon external factors such as market conditions, availability and external partners. Therefore, these projects are presented to Council prior to final project approval.

The approved 2019 Capital Budget of \$102.9M (excluding internal transfers and debt repayments) is included in the figures below as are the amounts relating to capital projects from previous years' Capital Budgets which remain active. The current balance committed to active capital projects is \$377.9M.

The Building Program projects approved in or prior to 2015 includes \$15.6M in committed active capital projects mainly for the Minoru Centre for Active Living, Fire Hall No. 1 and the Major Facilities Phase I Multi Project Contingency and Construction Escalation Contingency.

The tables in this report are presented on a cash-basis, that is, actual progress payments that have been made up to March 31, 2019.

Table 1: Active Capital Projects by Program (in \$'000s)

Program	Plan Year	Adjusted Budget	Actuals as at March 31, 2019	Expected Commitments / Work In Progress
Infrastructure Program	2019	\$37,800	\$366	\$37,434
	2018	76,001	22,453	53,548
	2017	39,102	22,288	16,814
	2016	52,073	24,567	27,506
	2015 & older	1,543	763	780
Infrastructure Program Total		\$206,519	\$70,437	\$136,082
Building Program	2019	17,635	-	17,635
	2018	49,967	4,843	45,124
	2017	8,088	3,321	4,767
	2016	1,256	463	793
	2015 & older	117,317	101,685	15,632
Building Program Total		\$194,263	\$110,312	\$83,951
Parks Program	2019	11,620	31	11,589
	2018	11,390	1,431	9,959
	2017	8,624	2,374	6,250
	2016	12,831	8,933	3,898
	2015 & older	16,021	11,768	4,253
Parks Program Total		\$60,486	\$24,537	\$35,949
Construction Related Programs		\$461,268	\$205,286	\$255,982
Affordable Housing Program	2019	775	-	775
	2018	902	-	902
	2017	11,285	6,352	4,933
	2016	585	153	432
Affordable Housing Program Total		\$13,547	\$6,505	\$7,042
Child Care Program	2019	160	34	126
	2018	220	143	77
	2015 & older	301	183	118
Child Care Program Total		\$681	\$360	\$321
Equipment Program	2019	14,327	-	14,327
	2018	10,822	3,739	7,083
	2017	9,218	5,232	3,986
	2016	3,701	877	2,824
	2015 & older	4,126	2,851	1,275
Equipment Program Total		\$42,194	\$12,699	\$29,495
Land Program	2019	10,000	-	10,000
	2018	10,000	-	10,000
	2017	16,020	5,092	10,928
	2016	26,200	4,204	21,996
	2015 & older	42,100	22,540	19,560
Land Program Total		\$104,320	\$31,836	\$72,484
Public Art Program	2019	563	15	548
	2018	1,125	163	962
	2017	911	499	412
	2016	1,068	441	627
	2015 & older	3,638	3,270	368
Public Art Program Total		\$7,305	\$4,388	\$2,917
Contingent External Contribution	2019	9,618	-	9,618
Contingent External Contribution Total		\$9,618	\$-	\$9,618
Non-construction Related Programs		\$177,665	\$55,788	\$121,877
Grand Total		\$638,933	\$261,074	\$377,859

Included in the 2019 Capital Plan (2019-2023 Financial Plan Bylaw) was an estimate of \$10M for external grants or contributions that may be received throughout the year. As external funding is confirmed, funding is transferred to the approved applicable projects. As of March 31, 2019, we received \$381,643 and the budget for Contingent External Contribution has been adjusted to \$9,618,357.

Capital Budget Reallocations

Council Policy 3001 requires changes to the Capital Budget be reported to the Finance Committee. The following reallocations, summarized by program, were recorded in the first quarter ended March 31, 2019:

Table 2: Budget Reallocations (in \$'000s)

Program	Original Budget	2019 Q1 Budget Transfers	Adjusted Budget
Building Program	\$742	\$382	\$1,124
Contingent External Contribution	10,000	(382)	9,618
Total	\$10,742	\$-	\$10,742

External contributions received in the first quarter include \$377k from developers for Project Development Advanced Design which was not included in the project budget.

Highlights of Key Construction Related Capital Projects

Information on key capital projects includes the project budget, inclusive of transfers from other projects and budget amendments, actuals on a cash-basis, and the remaining commitments as at March 31, 2019.

INFRASTRUCTURE

The City’s Infrastructure program includes construction for roads, lanes, street systems, public walkways and paths, street lighting, water distribution networks, sanitary sewer systems, and drainage and flood protection systems. Many of the active infrastructure projects are in the design and permitting stage. With the current Provincial and Federal regulatory framework, the design and approval process for many drainage projects (including pump stations and dike upgrades) can take one to two years.

There is a continued upgrade for pump stations, dikes and roads city wide along with infrastructure improvements at McDonald Road area, No. 2 Road and various areas.

Table 3: Key Infrastructure Capital Projects (in \$'000s)

Program	Project Name	Adjusted Budget	Actuals as at March 31, 2019	Expected Commitments / Work In Progress
Drainage	Drainage Pump Station & Diking Upgrades incl. Provincial Grant* (2016)	\$28,186	\$4,916	\$23,270
Drainage	Laneway Drainage Upgrade - Afton Drive North and Herbert East Lane (2019)	1,915	-	1,915
Road	No. 2 Rd Multi-Use Pathway and Intersection Improvements - Steveston Hwy to Dyke Road (2016)	11,000	9,262	1,738
Road	2019 Paving Program - Various Locations - City-Wide	4,282	1	4,281
Road & Water	River Parkway Extension (2018)	14,245	353	13,892
Water	Spires Area Sanitary, Water, and Drainage Upgrades (2016)	4,500	4,033	467
Water	Watermain Replacement Program (2019)	5,395	207	5,188
Total Key Infrastructure Capital Projects		\$69,523	\$18,772	\$50,751

*Adjusted budget for Drainage Pump Station & Diking Upgrades includes: i) \$16.6M from the Provincial Government under the Flood Protection Program and ii) a budget transfer of \$ 0.18M from Public Works Infrastructure Advanced Design (2013 and 2016) for the completed works relating to the Flood Protection Program.

Please see Attachment 1 for Q1 2019 Construction Update. This attachment includes the project budget, the scheduled contract start, and the scheduled construction completion. A scheduled contract start is considered “complete” when the construction contract is awarded; the actual construction work is still in progress. Therefore, it is possible for a contract start to be “complete”, while the scheduled construction will be completed in the future.

BUILDING

The Building Program includes major building construction and renovation projects as well as minor facility upgrades.

The City has been focused on completing the Major Facilities Phase 1 capital projects:

- Minoru Centre for Active Living (MCAL) remains on budget, and the Seniors Centre and Event Centre was opened to the public on March 11, 2019.
- Richmond Fire Rescue commenced operations out of Fire Hall No.1 on July 16, 2018 and solar photovoltaic roof panels will be installed to offset power needs.

The City has also moved forward with the advanced design of Major Facilities Capital Plan Phase 2 which includes:

- Animal Shelter – this was referred to staff at the Council meeting on January 21, 2019 to explore program options, and will be the subject of future report to Council anticipated in Q2 2019.
- Minoru Lawn Bowling Clubhouse – this was referred to staff at the Council meeting on December 19, 2018 to report back on additional options for the size of the Lawn Bowling

Green Clubhouse and program, and will be the subject of future report to Council anticipated in Q2 2019.

- Steveston Community Centre and Branch Library – this project is included as a 2020 capital project in the Consolidated 5 Year Financial Plan (2019-2023).

Table 4: Key Building Capital Projects (in \$'000s)

Project Name	Adjusted Budget	Actuals as at March 31, 2019	Expected Commitments / Work In Progress
Minoru Centre for Active Living (2014)	\$83,138	\$77,413	\$5,725
Fire Hall No. 1 (2014)	24,381	22,259	2,122
Phoenix Net Loft (2018)	11,500	31	11,469
City Centre Community Police Relocation (2018)	5,100	136	4,964
Gateway Infrastructure Replacement (2017, 2018)	4,395	156	4,239
Canada Line Capstan Station (2018)	3,500	1,098	2,402
Minoru Place Activity Centre (2019)	2,511	-	2,511
Minoru Arena Infrastructure Replacement Spring 2019-Spring 2021 (2017)	1,859	849	1,010
Total Key Building Capital Projects	\$136,384	\$101,942	\$34,442

*Adjusted budget for Gateway Infrastructure Replacement includes the inclusion of \$4,010K Infrastructure Replacements (phase I) and \$385K Gateway Theatre Main Stage Lighting Replacement approved as a 2017 One-Time Expenditure.

Please see Attachment 1 for Q1 2019 Construction Update. This attachment includes the project budget, the scheduled contract start, and the scheduled construction completion. A scheduled contract start is considered “complete” when the construction contract is awarded; the actual construction work is still in progress. Therefore, it is possible for a contract start to be “complete”, while the scheduled construction will be completed in the future.

PARKS

The Parks Program includes parkland acquisition program, high quality parks, trails and recreation facilities.

The key parks capital projects are summarized below and the project highlights are included in Attachment 2. Note that the percentage of completion in Attachment 2 takes into account the status of contract awards and may not be reflective of actual spending to date.

Table 5: Key Parks Capital Projects (in \$'000s)

Project Name	Adjusted Budget	Actuals as at March 31, 2019	Expected Commitments / Work In Progress
Garden City Lands Phase 1, 2 and 3 (2015-2018)	\$8,025	\$4,739	\$3,286
Aberdeen Park (2017-2018)	2,560	1,252	1,308
The Gardens Agricultural Park (2012, 2014, 2015)	2,267	1,012	1,255
Hollybridge Pier/Middle Arm* (2010, 2012, 2015)	2,350	1,460	890
Parks Aging Infrastructure (2018)	900	429	471
London / Steveston Park Enhancements (2017, 2018)	730	5	725
Playground Improvement & Replacement (2018)	500	-	500
Playground Improvement & Replacement (2016-2017)	481	288	193
Parks Identity Signage Program (2018)	200	114	86
Total Key Land & Parks Capital Projects	\$18,013	\$9,299	\$8,714

*Adjusted budget for Hollybridge Pier/Middle Arm includes \$100K allocated from Middlearm Gateway Park (2010-2011) and \$1,250K from Oval West Waterfront Park - Phase 1 2012 approved budget.

Capital Projects Completed in the Quarter

The following active capital projects were closed in the first quarter. Any unspent funding will be returned to the original source (i.e. Reserve Fund) for distribution toward future projects.

Table 6: Projects Closed in the Quarter Ended March 31, 2019 (in \$'000s)

Project Name	Adjusted Budget	Actuals as at March 31, 2019	Remaining Budget
Public Works Vehicle Purchase (2015)	\$2,851	\$2,821	\$30
Fire Vehicle Replacement Reserve Purchases (2017)	2,405	2,405	-
Emergency Drainage Box Culvert Replacement (2016)	2,000	1,466	534
Residential Water Metering (2016)	1,920	1,920	-
Fire Vehicle Replacement Reserve Purchases (2016)	1,612	1,612	-
PW Infrastructure Advanced Design (2015)	1,586	1,508	78
Digital Strategy Implementation (2017)	1,503	1,493	10
Public Works Minor Capital - Water (2016)	584	584	-
Annual Computer Hardware Refresh (2016)	451	450	1
ICT Infrastructure Replacement (2013, 2016)	394	393	1
Steveston Sanitary Sewer Rehabilitation (2016)	369	31	338
Server Replacements (2016)	303	303	-
Direct Digital Control Upgrade and Consolidation (2015)	290	290	-
PW Minor Capital - Traffic (2016)	283	283	-
Public Works Minor Capital - Traffic (2018)	275	274	1
Public Works Minor Capital - Traffic (2017)	267	264	3

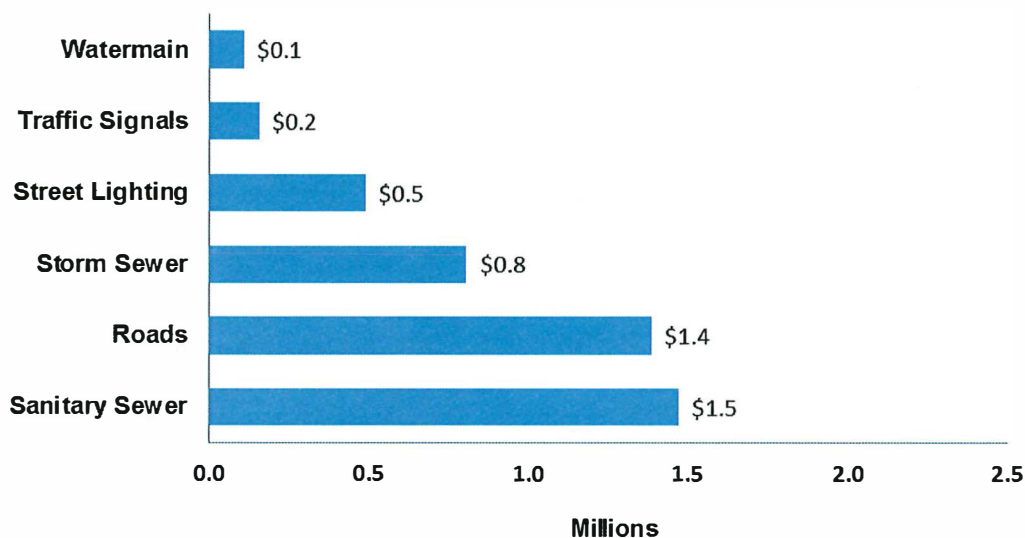
Table 6: Projects Closed in the Quarter Ended March 31, 2019 (in \$'000s) - continued

Project Name	Adjusted Budget	Actuals as at March 31, 2019	Remaining Budget
Server Infrastructure Upgrades (2015)	267	267	-
Transit-Related Amenity Improvement Program (2016)	250	118	132
Direct Digital Control Upgrade and Consolidation (2016)	250	246	4
Transit-Related Roadway Improvement Program (2017)	200	188	12
Aquatic Invasive Species Management (2016)	175	175	-
Transit-Related Roadway Improvement Program (2016)	163	146	17
WorkSafeBC Claims/Incident Management System (2014)	151	145	6
Development Coordinated Works in Capital (2016)	150	84	66
Granville Ave Lighting Upgrade (2016)	140	140	-
Drainage Pump Station Generator Upgrade - No 8 Road North (2014)	120	120	-
Functional and Preliminary Design (Transportation) (2015)	30	18	12
Functional and Preliminary Design (Transportation) (2017)	25	24	1
Total	\$19,014	\$17,768	\$1,246

Contributed Assets

Included in the 2019-2023 Financial Plan Bylaw is an estimate of \$50.3M for assets that are transferred to the City by developers. Under the Public Sector Accounting Standards, these are recorded as revenue at the fair market value at the time of contribution. The following assets totalling \$4.5M have been recorded as of March 31, 2019:

**2019 Contributed Assets as of March 31, 2019
(in millions)**



April 9, 2019

- 10 -

Developer community contributions of child care amenities with a combined total of 40,000 sq. ft. are underway. Please see Attachment 1 for Q1 2019 Construction Update.

Financial Impact

None.

Conclusion

This report provides information on active capital projects that were previously approved by Council.



Melissa Shiao, CPA, CA
Manager, Financial Planning and Analysis
(604-276-4231)

MS:sx

Q1 2019 Construction Update

This Q1 2019 Construction Update was provided to Mayor and Councillors in a memo dated April 4, 2019.

Flood Protection

Drainage Pump Station and Diking Upgrades – Provincial Grant

The City secured \$16.6 million from the Provincial Government under the Flood Protection Program. This project includes the upgrades of four drainage pump stations and diking upgrades. The Horseshoe Slough drainage pump station construction is ongoing. The South Dike upgrade (Gilbert Road to No. 3 Road) construction is underway. Detailed designs are ongoing for the South Dike (east of No. 3 Road) upgrades and the drainage pump stations at No. 7 Road South, Shell Road North and No. 2 Road South, with construction scheduled to commence later this year.

Laneway Drainage Upgrades – Afton Drive North and Herbert East Lane

This project consists of installing new drainage infrastructure and surface restorations to address drainage issues in the laneways. Construction is scheduled to commence Q2 2019.

Roads

No. 2 Road Multi-Use Pathway and Intersection Improvements – Steveston Highway to Dyke Road

This project includes a multi-use shared pathway for pedestrians and cyclists on No. 2 Road between Steveston Highway and Dyke Road along with intersection improvements. The City secured cost share funding of \$4.95 million from the Federal government in support of this project. The construction work is nearing completion.

Sustainable Practice Highlight

The No. 2 Road project utilizes LED roadway lighting which consumes less energy, lasts longer, and has lower maintenance costs.

River Parkway Extension

The scope of this project includes the construction of an interim two-lane road along the former railway corridor, from 200m northeast of Gilbert Road to Cambie Road. The new road will connect to the existing Leslie Road, Gilbert Road, Cambie Road and future Minoru Boulevard as well as access to the future Middle Arm Waterfront Park. When completed this new road would replace the existing River Road between Gilbert Road and Cambie Road and provide a continuous alternate route to No. 3 Road and existing River Road. The construction work is underway.

2019 Paving Program – Various Locations – City-Wide

The award of the 2019 Paving Contract is in progress and the construction is scheduled to commence Q2 2019. Upcoming locations include: 8,000 Block of Alderbridge Way, 9,000 Block of Alderbridge Way, Bridgeport Road (Viking Way to No. 6 Road), 10,000 Block of No. 4 Road, 7,000 Block of No. 5 Road, 11,000 Block of No. 5 Road, 12,000 Block of No. 5 Road, Russ Baker Way (No. 2 Road to Inglis Drive), Westminster Highway (Smith Crescent to Boundary Road), Buswell Street (Granville Avenue to Saba Road), Cooney Road (Granville Avenue to Westminster Highway); and various vibration complaint locations.

Sustainable Practice Highlight

The asphalt mix can contain up to 10% recycled asphalt products, which reduces the carbon footprint from construction activity.

Sanitary Sewers

Spires Area Sanitary, Water, and Drainage Upgrades

This project consists of replacing/upgrading ageing sanitary sewers and watermains and installing new storm sewers in the Cook & Spires neighbourhoods. Construction is complete.

Water

McDonald Road Watermain Replacement

This project replaces and upsizes ageing watermains at the end of their service life with PVC pipe, in line with the City's Ageing Infrastructure Replacement Strategy. This will minimize unplanned maintenance and improve fire protection. Construction is underway.

Buildings

Minoru Centre for Active Living

The Minoru Centre for Active Living project remains on budget. Lap Pool 1 leak investigation is underway. Civil/landscape works are near completion. The Seniors Centre and Event Centre opened to the public on March 11, 2019.

Sustainable Practice Highlight

The Minoru Centre for Active Living is designed to meet the LEED Gold Standard and incorporate sustainability features such as low flow fixtures and wastewater heat recovery.

Childcare Centres

Developer Community Contribution Amenties with a combined total of approximately 40,000 sq. ft., designed to accommodate about 262 children in various licensed child care programs is underway.

- Brighthouse Early Childhood Development Hub - Keltic Canada Development Co Ltd.
- Capstan Village - Pinnacle International
- Parc Riviera/Northview Estate Daycare – Western-Citimark

Gateway Theatre

The theatre improvements will include envelope rehabilitation, modernization of fire safety, mechanical and electrical systems replacements, with minor structural and finishes upgrades. Construction is estimated to start early Q3 2019 and be complete by Q2 2020.

Sustainable Practice Highlights

The envelope and building systems upgrade will not only perform to current standards and best practices, but also reduce energy consumption while maximizing the operational efficiency.

Minoru Arena Infrastructure Replacement

Multiple building systems have reached the end of their life expectancy and will be replaced with modern energy efficient systems (where possible) to prolong the life of the building and ensure the health and safety of its users / inhabitants. Construction is anticipated to begin in Q2 2019 and completed by Q4 2020.

Sustainable Practice Highlights

The existing refrigeration systems will also be upgraded to a low ammonia charge system, which will improve public / worker safety, and energy efficiency while minimizing environmental hazards.

Minoru Place Activity Centre

The Minoru Place Activity Centre will be repurposed to a Community Arts Program and Education space. Tendering for design services is currently underway. Three architectural firms have been shortlisted and have been invited to submit a proposal. Design is estimated to be completed for contractor pricing at the end of Q3 2020.

Phoenix Net Loft

The approximately 20,000 sq. ft. structure has been identified as being in deteriorating condition and will be preserved through deconstruction – reconstruction methodology. Permitting, detailed site assessment and design is currently underway. Contractor pricing is anticipated for Q3 2019.

District Energy (Lulu Island Energy Company)Oval Village District Energy Utility

Expansion continues at the growing Oval Village District Energy Utility. Design is underway for the energy transfer stations for two new building connections which will add over 700,000 sq. ft. of floor space to the LIEC. Construction of these connections is scheduled for Q2 and Q3 2019. To meet this growing demand, design is also underway for the expansion of the River Parkway Interim Energy Centre. The energy centre will be expanded from 8MW to 12MW capacity, with a scheduled commissioning date in Q4 2019.

Alexandra District Energy Utility

Four new buildings are connecting to ADEU in 2019. Three of the four energy transfer stations are currently under construction and are expected to be completed in Q2 and Q3 2019. These new developments will increase the connected floor area by over 600,000 sq. ft., bringing the total serviced area to 2.3 million sq. ft.

New distribution pipes will be installed under the West Cambie Neighborhood Park in Q2 2019 ahead of the park's construction to allow for the future addition of two new geoexchange fields. These fields will allow the ADEU to continue providing more than 70% of the energy from renewable sources to new customers.

2019 Capital Construction Program Update

	Project Name	Scope of Work	Capital Funding (x1000)	Scheduled Construction Completion
INFRASTRUCTURE - ENGINEERING				
ROADS				
1	River Drive -Multi-Use-Pathway	River Drive - No 4 Rd to Van Horne Way multi-use path c/w storm sewer infill	\$1,344	Q2 2019
2	No. 2 Road Multi-Use Pathway and Intersection Improvements	No 2 Road from Steveston Highway to Dyke Road/London Road	\$11,000	Q2 2019
3	Sexsmith Road Multi-use-pathway	MUP-Sexsmith Road from Beckwith Road to River Road	\$495	Q2 2019
4	Railway Crossings and Environmental Works	Westminster and Nelson rail crossings and environmental works at Woodward's Slough	\$3,383	Q4 2019
5	Annual Asphalt Re-Paving Program - MRN	Annual asphalt re-paving	\$1,151	Q4 2019
6	Annual Asphalt Re-Paving Program - Non-MRN	Annual asphalt re-paving	\$3,131	Q4 2019
7	LED Street Light Replacement Plan	Year 3 - Continuation of LED replacement program	\$430	Q4 2019
8	No. 6 Road Multi-Use Pathway	Cambie Road to Bridgeport Road	\$500	Q4 2019
9	Transit-Related Roadway Improvement Program	Bus Stop at Westbound Westminster Highway N/S No. 7 Road	\$400	Q4 2019
10	Westminster Highway Pedestrian and Cyclist Enhancements	Smith Crescent to Fraserside Gate	\$1,100	Q1 2020
11	Arterial Roadway Improvement Program	Railway Greenway intersections, Odlin Road Bike Route, Westminster Highway MUP - No. 6 Road to No. 7 Road	\$450	Q2 2020
12	Active Transportation Improvement Program	Charles Street MUP - Sexsmith to Bridgeport Canada Line Station	\$1,000	Q2 2020
13	Alderbridge Way MUP	Alderbridge Way MUP - Shell Road to No. 4 Road	\$1,200	Q2 2020
14	Arterial Roadway Improvement Program	River Road Sidewalk - No. 6 Road to Burdette Street, Sidewalk Upgrades - Lucas at No. 3 Road	\$450	Q2 2020
14	River Parkway Road Extension - Gilbert Road to Cambie Road	River Parkway Road Extension - Gilbert Road to Cambie Road	\$15,045	Q3 2020
15	Garden City Pedestrian and Cyclist Enhancements	Garden City Pedestrian and Cyclist Enhancements - Westminster Highway to Lansdowne Road	\$1,000	Q3 2020
16	Steveston Highway MUP	Steveston Highway MUP - Shell Road to Mortfield Gate	\$2,000	Q3 2020

DRAINAGE				
17	ALR Drainage Upgrades (Phases 1 and 2)	Watercourse and culvert realignment; automatic irrigation gate installation	\$450	Q3 2019
18	Headwall Replacement and Ditch Infills	Steveston area, No. 9 Road and Dyke Road, and No. 7 Road and Cambie Road	\$500	Q4 2019
19	Box culvert Repair - No 2 Rd	Citywide and at No. 2 Rd south Drainage Pump Station	\$1,500	Q4 2019
20	Gilley Road & Westminster Highway Culvert	Replacement of existing culvert at intersection	\$1,250	Q4 2019
21	Horseshoe Slough Pump Station	Upgrade existing drainage pump station and associated dike sections	\$7,351	Q4 2019
22	Dike Upgrades - South Dike	South dike - No. 3 Road to Gilbert Road	\$5,291	Q4 2019
23	East Richmond-Drainage & Irrigation Upgrades - Steveston Hwy/Sidaway Rd/Palmberg Rd/Westminster Hwy/Gilley Rd	Various locations Citywide including Steveston Hwy, Sidaway Rd, Palmberg Rd, Westminster Hwy, and Gilley Rd	\$1,285	Q4 2019
24	East Richmond Drainage & Irrigation Upgrades - Irrigation gates, ditch re-grading and culvert upgrades	Various locations Citywide, including Blundell, Burrows, Woodward's Slough, Sidaway Road, Westminster Highway and Granville Avenue	\$466	Q4 2019
25	Burkeville Drainage Improvements	Burkeville Drainage Upgrades (phase 1 of construction)	\$2,000	Q4 2019
26	Laneway Drainage Upgrade - Afton Drive (North)	Laneway Drainage Upgrade - Afton Drive (North)	\$1,373	Q4 2019
27	Laneway Drainage Upgrade - Herbert East Lane	Laneway Drainage Upgrade - Herbert East Lane	\$542	Q4 2019
28	Box Culvert Repair - No 4 Rd	Box Culvert Repair - No 4 Rd and Citywide	\$1,500	Q3 2020
29	Shell Road North Drainage Pump Station	Upgrade existing drainage pump station and associated dike sections	\$5,000	Q4 2020
30	Canal Stabilization	Canal stabilization and assessments and geotechnical investigations for various sections of canal Citywide	\$300	Q4 2020
31	No. 7 Road South Drainage Pump Station	Replace existing drainage pump station and associated dike upgrades	\$5,800	Q4 2020
32	Dike Upgrades	Dike Upgrades - Various location including No 9 Rd, No 3 Rd, and Garden City Rd	\$5,850	Q4 2020
33	Heather Street Improvement	Neighbourhood improvement on Heather Street, from Francis Road to Dayton Avenue	\$1,757	Q4 2020
34	Steveston Highway and No.3 Road Pump Station Upgrade	Upgrade existing drainage pump station and associated dike sections	\$2,000	Q4 2020
33	No 2 Road South Drainage Pump Station	Upgrade existing drainage pump station and associated dike sections	\$7,743	Q1 2021
34	Flood Protection and Dike Improvements	Various locations - City wide	\$5,100	Q4 2021

SANITARY				
34	City Centre Area Sanitary Sewer Rehabilitation	Point repairs of existing sanitary sewer/ Minoru Park sanitary-storm reconnection	\$1,160	Q2 2019
35	Sanitary Sewer Tie-in and Restoration	Sanitary Sewer Tie-in and Restoration	\$500	Q4 2019
36	Gravity Sewer Assessment Program	Citywide CCTV inspections	\$450	Q4 2019
37	Burkeville Utility Upgrades	Burkeville Utility Upgrades - Sanitary (phase 1 of construction)	\$1,133	Q4 2019
38	Eckersley B Sanitary Pump Station	Eckersley B Sanitary Pump Station	\$2,650	Q4 2019
39	Hamilton Sanitary Pump Station/sewer/FM	Sanitary Pump station located in Hamilton VLA Park	\$1,700	Q4 2019
40	Steveston Gravity Sewer Assesment, Replacement and Rehabilitation	Steveston Gravity Sewer Assesment, Replacement and Rehabilitation	\$1,839	Q4 2021
WATER				
41	Spires Area Utility Upgrades (w/o City Forces watermain construction)	Water, sanitary and drainage upgrades	\$4,500	Q2 2019
42	Watermain Replacement Program-Mowbray Pigott Saunders area	Watermain Replacement Program-Mowbray Pigott Saunders area	\$3,411	Q2 2019
43	McDonald Road Watermain Replacement	Watermain Replacement Program - McDonald Road area	\$621	Q2 2019
44	Colbeck Watermain Replacement	Watermain Replacement Program - Colbeck area	\$2,817	Q4 2019
45	Palmberg Watermain Replacement	Watermain Replacement Program - Palmberg area	\$722	Q4 2019
46	Water Metering Program	Fixed base network implementation	\$2,120	Q4 2019
47	Water Metering Program	Upgrade touch pad meters to radio meters and volunteer multi-family dwelling meters	\$6,506	Q4 2019
48	Watermain Tie-in and Restoration	Watermain Tie-in and Restoration (18)	\$250	Q4 2019
49	Gilbert/Bates Watermain Replacement	Watermain Replacement Program - Gilbert/Bates area	\$1,235	Q2 2020
50	Thompson Gate PRV station	Water PRV in development property	\$600	Q2 2020

DISTRICT ENERGY				
51	Alexandra District Energy Utility (Phase 3)	DEU building and distribution pipe system expansion	\$12,100	Complete
BUILDINGS - PROJECT DEVELOPMENT				
52	Watermania	Infrastructure replacements	\$ 1,000	Q3 2019
53	Minoru Arena	Infrastructure Replacement	\$ 1,859	Q3 2019
54	City Hall Annex	Transformer Replacement	\$ 500	Q4 2019
55	City Centre Community CPO	Construction of tenant improvement for support relocation of CPO to City Hall West	\$ 5,100	Q4 2019
56	Fire Hall No. 1	Solar Photovoltaic Panels - Energy Systems	\$ 450	Q4 2019
57	East Richmond Community Hall	Renewal of HVAC Systems, Roof Replacement, Interior Upgrades	\$ 402	Q4 2019
58	Minoru Centre for Active Living	New Construction of an Aquatics Centre and Older Adults Centre	* \$83,100	Q4 2019
59	Minoru Place Activity Centre	Repurposing	\$ 2,511	Q4 2019
60	City Hall Annex	Tenant Improvements	\$ 5,700	Q1 2020
61	Lawn Bowling Club	Replacement of Clubhouse	\$ 4,000	Q1 2020
62	Works Yard	Mechanical Systems Replacement	\$ 1,707	Q1 2020
63	Works Yard	Salt Shed Repair	\$ 266	Q1 2020
64	Works Yard	Design of site wide infrastructure replacements	\$ 2,515	Q1 2020
65	Gateway Theatre	Infrastructure Replacements	\$ 8,095	Q2 2020
66	Japanese Cultural Centre	Entrance Upgrade	\$ 258	Q2 2020
67	Thompson Community Centre	Infrastructure replacements	\$ 520	Q2 2020
68	City Hall	Mechanical Upgrades and repairs	\$ 980	Q3 2020
69	Library Cultural Centre	Conveyance Replacement	\$ 709	Q3 2020
70	Library Cultural Centre (includes \$750K Grant)	Mechanical System Renewals	\$ 1,900	Q4 2020
71	Minoru Arena	Systems Renewal	\$ 3,300	Q4 2020
72	Phoenix Net Loft	Building Stabilization/Preservation	\$ 12,000	Q3 2021
73	Minor Capital Buildings Project Development	64 projects (roof replacement, flooring, mechanical equipment, etc.)	\$ 3,964	Q4 2019

Capital Highlights**Community Services/Parks***Garden City Lands Phase 1, 2 and 3:*

Approved Budget: \$8,025,000 (2015, 2016, 2017, & 2018) 60% Complete

- The Garden City Lands - Legacy Landscape Plan was endorsed by Council in June 2014. An in-depth study of the site's hydrological and ecological conditions was completed as guidance for the refinement of the Legacy Landscape Plan including detailed design of water management infrastructure and perimeter trails.
- Preparation of the farm area licensed to Kwantlen Polytechnic University has been completed and farming began in June 2018.
- Perimeter Path construction has been completed and portions of the perimeter path opened to the public in June 2018.
- Staff are preparing a Non-Farm Use Application for Council's review prior to filing with the Agricultural Land Commission (ALC) later in 2019. The purpose of the application is to gain the ALC's approval to construct a wide range of park infrastructure and site elements.

Aberdeen Park:

Approved Budget: \$2,560,000 (2017 & 2018) 50% Complete

- Total approved budget for the entire Aberdeen Park development is \$5,260,000 (2014, 2016, 2017 & 2018)
- Council approved the naming of this new park at Cambie Road and Hazelbridge Way in July of 2017 from Cambie City Centre to Aberdeen Park.
- The tender for Phase 1 park construction was awarded in June 2017 and construction was completed in June 2018.
- The official park opening was held on July 19, 2018.
- Phase 2 detailed design is underway; construction is anticipated to begin in 2019.

The Gardens Agricultural Park:

Approved Budget: \$317,000 (2012) & \$1,950,000 (2014, 2015) 30% Complete

- City construction for Phase 1 has been partially completed along with Servicing Agreement works completed by Townline Homes in Fall 2014.
- The park was opened to the public in January of 2019.
- Development of storm water retention ponds and the installation of additional stormwater drainage infrastructure are completed for Phase 2.
- Rehabilitation of garden areas, installation of electrical conduit and irrigation, supplementary tree and shrub planting and new site furniture for Phase 3 is ongoing.
- Rehabilitation of the existing park features in the north end of the park, such as pathways, landscaping and planting is ongoing.
- Full implementation of the approved park concept is currently on hold due to the potential impacts of the George Massey Tunnel project.

Capital Highlights**Community Services/Parks***Parks Aging Infrastructure 2018:*

Approved Budget: \$900,000 (2018) 60% Complete

- King George Spray Park Resurfacing was completed on June 22, 2018.
- No. 2 Road Pier – Structural Conditional Assessment was completed in August 2018. Planning and preparation for the construction repairs scheduled for Summer 2019.
- Nature Park Boardwalk Replacement - Planning & Design completed. Construction of the 300 metre long x 8 feet wide accessible boardwalk along the Nature Park pond trail is anticipated to be completed by end of April 2019.

Parks Identity Signage Program:

Approved Budget: \$200,000 (2018) 90% Complete

- City Centre urban ID signage installed at Lang Park, Aberdeen and Richmond Oval fabricated and installed.
- Comprehensive signage plan for Terra Nova Rural Park (TNRP) and Natural Area (TNNA) precincts (including wayfinding and identification signage) fabrication is complete. TNRP + TNNA wayfinding installation complete (Summer 2018) and identification signage installation to be completed in Q2 2019.
- Identification signage for Capstan area including Alexandra Greenway, Alexandra, Ketcheson and Capstan Neighbourhood Parks are in-progress with installation to be completed in mid-late May through June 2019 pending signage base installation by contractor.

Playground Improvement & Replacement:

Approved Budget: \$481,000 (2016 & 2017) 75% Complete

Palmer Garden City Neighbourhood School Park Playground:

- Contract for design-build services was awarded in February 2019.
- Playground construction to start early Summer 2019 and be completed by the start of the school year.

Richmond Nature Park Playground Expansion

- The playground expansion was completed in July 2018 and is open to the public.
- Some minor surrounding site works and tree planting to take place after the boardwalk replacement is completed.

Playground Improvement & Replacement:

Approved Budget: \$500,000 (2018) 15% Complete

Talmey Neighbourhood School Park Playground

- Project on hold while playground replacement priorities are being evaluated

South Arm Community Park Playground

- Public engagement process to take place in Summer 2019.
- Construction expected to start in Fall 2019.

Capital Highlights**Community Services/Parks**

London/Steveston Park Enhancements:

Approved Budget: \$730,000 (2017 & 2018) 30% Complete

- Detailed design for site grading, trails and tree planting is complete
- A public open house to inform the community on the upcoming construction was held Saturday, April 13, 2019
- Construction to start in Spring 2019

Hollybridge Pier/Middle Arm:

Approved Budget: \$2,350,000 (2012 & 2015) 30% Complete

- Continuation of the Oval West waterfront development as part of the Middle Arm waterfront with a new public pier at the end of Hollybridge Way.
- Contract for design services for the pier has been awarded to Amec Foster Wheeler.
- Contract for construction services for the pier has been awarded to Fraser River Pile & Dredge
- **Project delayed.** Awaiting permitting/construction approvals from the Ministry of Forest, Lands and Resources Operations, First Nations consultation, and Transport Canada. **Anticipated construction to start in Fall 2019.**