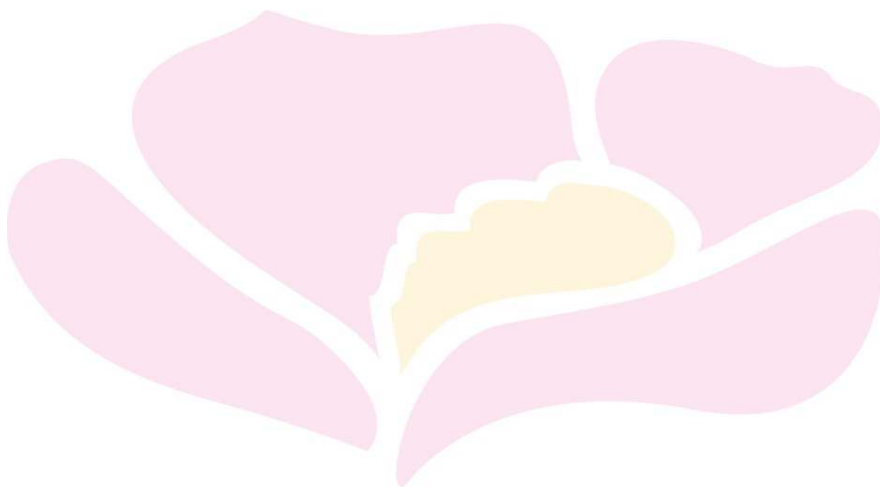




2017 and 2018 Capital Budget

Approved December 5, 2016



City Of Camrose
Capital Budget 2017 & 2018 Projects
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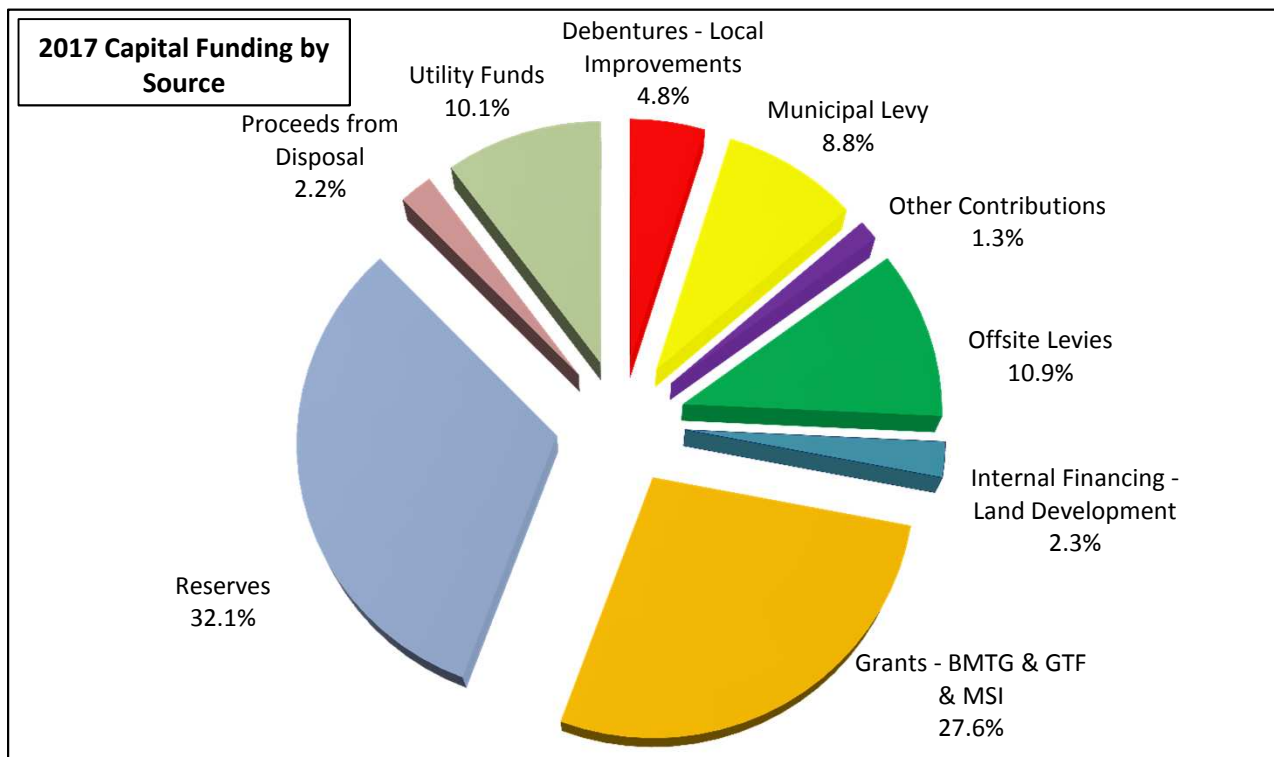
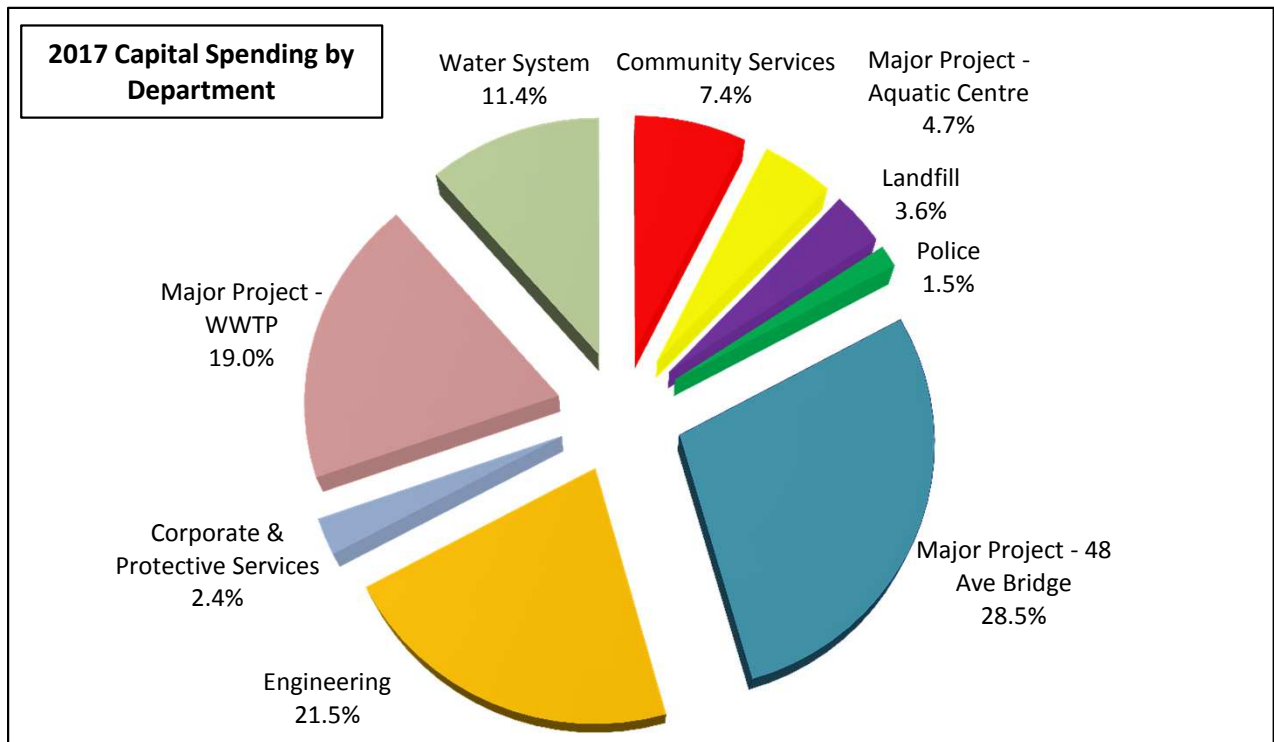
Summary Table - Total Costs 2017 & 2018 & Multi-Year Capital Projects

PROJECT COSTS	2017	2018	2019	2020
<u>Capital - Community Services</u>				
Facilities	1,305,000	8,293,000	3,000,000	
Parks	1,040,000	731,600	0	
Golf Course	204,400	193,900	0	
Total Community Services	2,549,400	9,218,500	3,000,000	0
<u>Capital - Corporate & Protective Services</u>				
Fire	10,000	880,000		
General Administration & Financial Services	44,000			
Information Technology	460,000	445,000		
Total Corporate & Protective Services	514,000	1,325,000	0	0
Capital - Police Protection	310,000	300,000		
<u>Capital - Engineering Services</u>				
General Operating				
General Administration		4,150,000	3,862,000	
Vehicles & Equipment	1,278,500	766,000		
Roads, Lights & Signals	8,820,000	4,745,000		
Storm Systems	110,000	1,500,000	100,000	
Airport	0	312,000		
Land Development	330,000	460,000		
Total Engineering Services - Operating	10,538,500	11,933,000	3,962,000	0
Utilities				
Water Systems	2,399,500	1,236,000	180,000	
Wastewater Systems	4,000,000	10,000,000	22,000,000	4,000,000
Recycling	0	275,000		
Landfill	750,000	0		
Total Engineering Services - Utilities	7,149,500	11,511,000	22,180,000	4,000,000
Total Capital	21,061,400	34,287,500	29,142,000	4,000,000

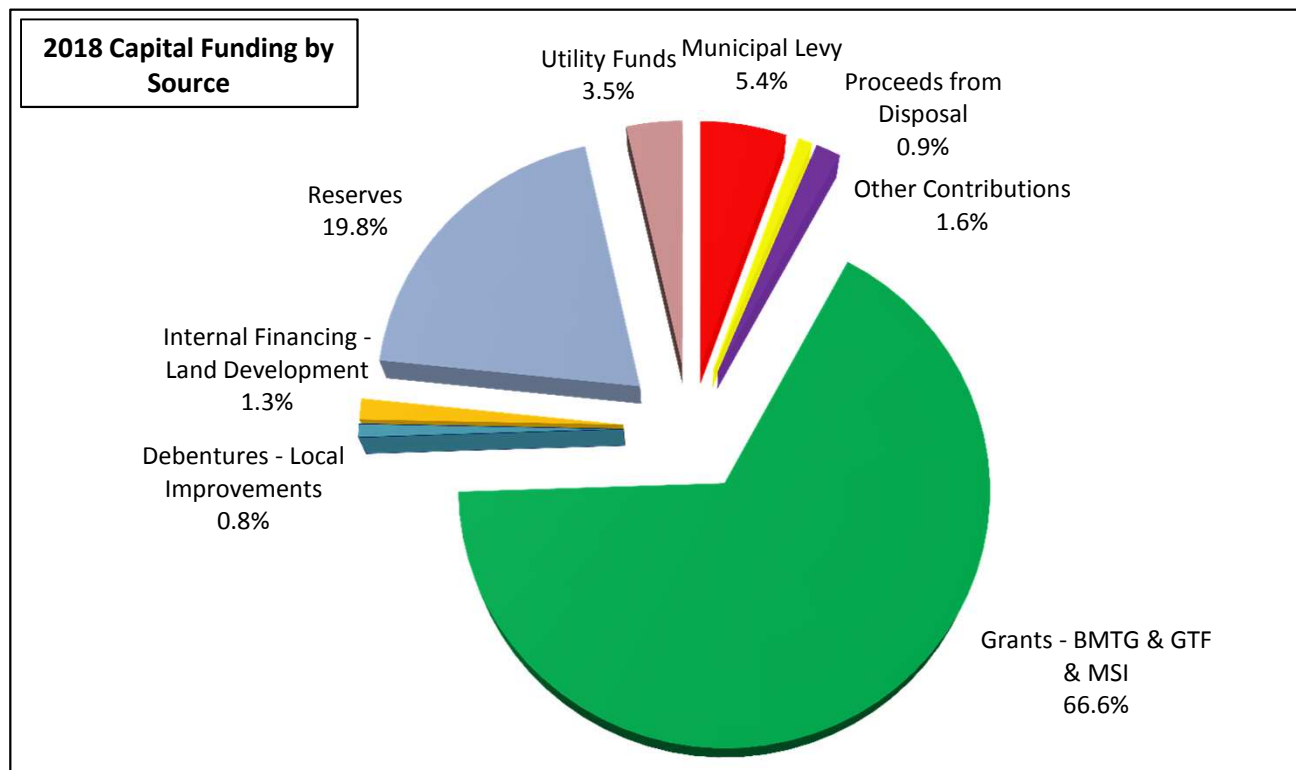
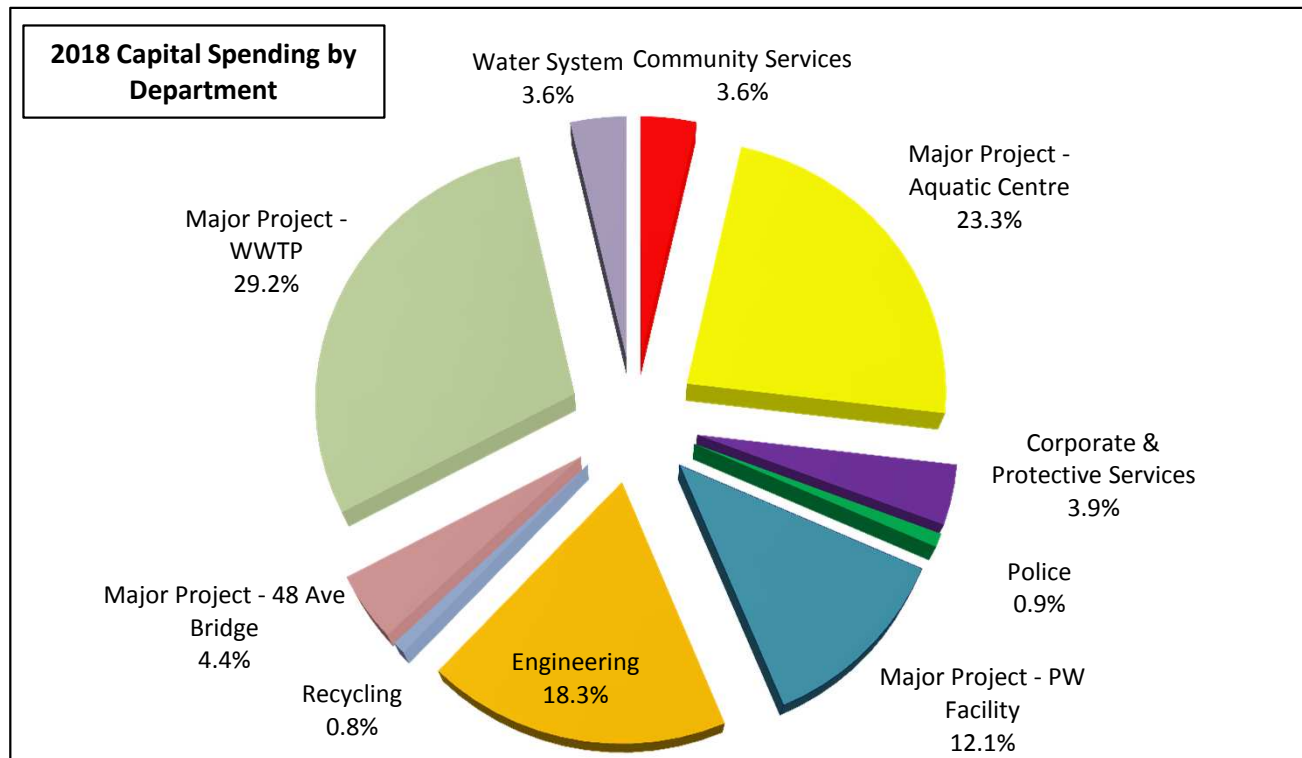
Summary Table - Total Funding 2017 & 2018 & Multi-Year Capital Projects

PROJECT FUNDING	2017	2018	2019	2020
Municipal Levy	1,848,000	1,867,600	10,000	
Grants				
Grants - BMTG & GTF	4,774,000	4,920,000	1,610,000	
Grants - MSI	1,000,000	6,588,000	3,862,000	
Grants - AMWWP	0	10,000,000		
Other Grants	40,000	1,313,000	90,000	
	5,814,000	22,821,000	5,562,000	0
Debenture				
Debenture - Local Improvements	1,015,000	290,000	60,000	
City Debenture	0	0	13,000,000	
	1,015,000	290,000	13,060,000	0
Internal Financing - Land Development	480,000	455,000		
Contributions from Developers/Other Revenue	275,000	545,000		
Offsite Levies	2,286,000	0		
Utility Operating Funds				
Water Operating	1,810,000	1,070,000		
Sanitary Operating	320,000	140,000		
	2,130,000	1,210,000	0	0
Proceeds on Disposal	458,000	303,500		
Reserves				
Reserve-Equipment Replacement	1,371,900	948,400		
Reserve-Fire Equipment Replacement	0	760,000		
Reserve-Computer Replacement	45,000	75,000		
Reserve-Water Utility	88,500	3,862,000	10,000	
Reserve-Wastewater Utility	4,000,000	0	9,000,000	4,000,000
Reserve-Landfill	750,000	0		
Reserve-Recycling	0	275,000		
Reserve-Municipal	50,000			
Reserve-Dedicated Road Reserves	250,000	750,000		
Reserve-Carryforward Funding	200,000	25,000		
Reserve-General Capital	0	100,000	1,500,000	
	6,755,400	6,795,400	10,510,000	4,000,000
Total Project Funding	21,061,400	34,287,500	29,142,000	4,000,000

**City of Camrose
Capital Budget
2017 Total Capital = \$21,061,400**



**City of Camrose
Capital Budget
2018 Total Capital = \$34,287,500**



Capital Projects Community Services

	2017	2018	2019
PROJECT COSTS			
<u>Community Services-Facilities - Capital</u>			
Facilities-Buildings/Improvements			
216 - Community Services Shop Expansion Plan	100,000		
562 - Skateboard Park	75,000	102,000	
666 - Aquatic Centre Complete Replacement	1,000,000	8,000,000	3,000,000
871 - Community Centre - Beam Replacement	80,000		
873 - Kin Park - Bleacher replacement		40,000	
874 - Max McLean - Real Ice	35,000		
877 - Recreation Centre - Real Ice		35,000	
879 - Recreation Centre - Tile High Traffic Areas		50,000	
880 - Recreation Centre - Floor Scrubber		25,000	
882 - HA Scoreclock		15,000	
924 - Library - Install Security System	15,000		
Total: Facilities-Buildings/Improvements	1,305,000	8,267,000	3,000,000
Facilities-Vehicles & Equipment			
597 - Ford Half Ton (Replace Unit 706)		26,000	
Total: Facilities-Vehicles & Equipment	0	26,000	0
Total: Community Services-Facilities - Capital	1,305,000	8,293,000	3,000,000
<u>Golf Course</u>			
Golf Course - Vehicles & Equipment			
397 - Golf Course Equip - Utility Cart (Unit 619)	20,000		
560 - Golf Course - Toro 4500D (Unit 633)	92,700		
561 - Golf Course - Toro Workman Spray System (Unit 628)	29,700		
587 - Golf Course - Toro RM 3500D (Unit 610)		49,100	
588 - Golf Course - Toro Procore 648 (Unit 611)		36,800	
589 - Golf Course - Toro Reelmaster 5410 (Unit 606)		76,800	
596 - Golf Course - Toro 2300 Topdresser (Unit 614)		18,200	
886 - Golf Course Kawasaki Mule (Unit 616)		13,000	
890 - Golf Course Tractor/Loader (Unit 600)	37,000		
Total: Golf Course - Vehicles & Equipment	179,400	193,900	0
Golf Course Infrastructure Capital			
591 - Golf Course - #18 Access Road Upgrade	25,000		
Total: Golf Course Infrastructure Capital	25,000	0	0
Total: Golf Course	204,400	193,900	0
<u>Community Services-Parks - Capital</u>			
Parks-Play Areas			
219 - Stoney Creek Daypark	340,000		
234 - Playground Equipment Rehabilitation	135,000	125,000	
800 - CBD Pocket Park - 4952 - 50 St	200,000		
896 - St. Pats Rink - Re-Furbish and Upgrade upstands/boards screening	60,000		
Total: Parks-Play Areas	735,000	125,000	0

Capital Projects Community Services

	2017	2018	2019
Parks-Trails			
194 - North Trail Extension		100,000	
217 - Trail System Upgrades	15,000	200,000	
897 - Parks - Trail Lighting - Mirror Lake		14,600	
898 - Parks - Mirror Lake Walking Bridge		72,000	
Total: Parks-Trails	15,000	386,600	0
Parks-Vehicles & Equipment			
551 - Parks Equipment - Out Front Mower Replace Unit 841	35,000		
552 - Parks Equipment - Out Front Mower Replace Unit 854	35,000		
553 - Parks Equipment - Ford 85HP Tractor (Replace Unit 820)	80,000		
554 - Parks Equipment - Tri Deck Mower (Replace Unit 860)	140,000		
603 - Parks - Crew Cab - Replace Unit 836		40,000	
604 - Parks - Crew Cab - Replace Unit 847		40,000	
605 - Parks - Toro GM 5910 Mower- Replace Unit 862		140,000	
Total: Parks-Vehicles & Equipment	290,000	220,000	0
Total: Community Services-Parks - Capital	1,040,000	731,600	0
Total Community Services Capital - Project Costs	2,549,400	9,218,500	3,000,000

PROJECT FUNDING	2017	2018	2019
Municipal Levy	555,000	663,600	
Grants - BMTG & GTF		1,700,000	1,500,000
Other Revenue	275,000	15,000	
Other Grants			
Reserves	250,000	100,000	1,500,000
Grant - MSI	1,000,000	6,300,000	
Proceeds on Disposal	60,000	61,000	
Reserve-Equipment Replacement	409,400	378,900	
Total Project Funding	2,549,400	9,218,500	3,000,000

Capital Projects

Community Services

PROJECT DESCRIPTIONS

Community Services-Facilities - Capital

Project 216 - Community Services Shop Expansion Plan - Possible extension of the main parks shop and connection to city sewer

Project 562 - Skateboard Park - expansion of the skateboard park by adding a large concrete pad and possibly a few movable features

Project 666 - Aquatic Centre Replacement - design and construction of a renovation of the existing pool with pool tank modification as well as an expansion with an eight lane competition pool. This would include upgrades to building mechanical where needed.

Project 871 - Community Centre - Beam Replacement - An engineered report has shown that the present drill hall section of the Community Center has some cracked beams. This project is to reinforce those beams.

Project 873 - Kin Park - Bleacher replacement - To begin to replace the aging large bleachers with portable bleachers

Project 874 - Max McLean - Real Ice - to install a device that removes the air from water which then allows the ice to be built using cold water instead of hot water.

Project 877 - Recreation Centre - Real Ice - to install a device that removes the air from water which then allows the ice to be built using cold water instead of hot water.

Project 879 - Recreation Centre - Tile High Traffic Areas - flooring replacement with more durable flooring in the high traffic area near the front doors.

Project 880 - Recreation Centre - Floor Scrubber - the existing floor scrubber is reaching its end of life and requires replacement. Repairs and down time are beginning to exceed replacement costs.

Project 882 - HA Score clock - To replace the old score clock on the football / baseball fields as the existing one can no longer be serviced

Project 924 - Library - Install Security System - To install a security system at the library for staff safety and after hour security.

Community Services- Golf Course - Capital

Project 591 - Golf Course - #18 Access Road Upgrade - to create a more usable road access to the storage area of the golf course so staff can access this area in any weather condition.

Community Services-Parks - Capital

Project 219 - Stoney Creek Day park - the Stoney Creek Day Park revitalization includes a redesign of the parking area drainage and parking stall layout, the construction of a new mini adventure play area that meets CSA, a redesign of the ski staging area for better teaching opportunities for the young skiers, and finally an addition of a family picnic / gathering place with benches, tables and possibly an eating shelter

Project 234 - Playground Equipment Rehabilitation: Project involves the removal / replacement of existing playground structures due to aging of existing infrastructure. 2017 - Mount Pleasant Park Playground. 2018 - Byers Park Playground and Kensington Park Playground

Project 800 - CBD Pocket Park - Funds designated for the development of park space on Main Street.

Project 896 - St. Pats Rink - Re-Furbish and Upgrade upstands/boards screening with new wood boards and new screening as the existing boards are getting beyond repair with rot.

Project 194 - North Trail Extension - As per the Green Spaces Master Plan, connect North areas of City to existing park trail system. New trail starting at 54 Ave on west side of Camrose Creek, east across Camrose Creek, and south under / across the CPR tracks, to connect to existing Bullrush Park trails near intersection of 58 Street and 51 Avenue. As of the end of 2014, the only outstanding component is the rail crossing and/or underpass to connect to Bullrush Park trails. Administration in ongoing discussions with CP regarding the construction of underpass tunnel / bridge which will allow trail users to safely cross under CP tracks. Discussions are ongoing, but are looking promising for 2018 construction. Project will also involve installation of chain link fencing along north side of tracks to eliminate multiple illegal crossing locations.

Project 217 - Trail System Upgrades - this is to overlay the existing trail from 44 avenue in the Stoney Creek park area for approximately 2km as part of maintenance and ongoing lifetime replacement.

Project 897 - Parks - Trail Lighting - Mirror Lake - to upgrade and continue the trail lighting project around mirror lake and south into Jubilee park.

Project 898 - Parks - Mirror Lake Walking Bridge - to refurbish the mirror lake walking bridge by removing it, cleaning / sandblasting it, repainting and replacing the wood decking with concrete.

Capital Projects

Corporate & Protective Services & Other

PROJECT COSTS	2017	2018
<u>Fire Services Capital</u>		
Fire - Building Capital		
664 - Fire Hall Concrete Apron Slabs and Curb Refurbishment		100,000
670 - Fire - Window Replacement due to Seal Leakages	10,000	
Total: Fire - Building Capital	10,000	100,000
Fire-Vehicles		
104 - Fire Pumper Truck Replacement		700,000
105 - 1 Ton 4x4 Bush Truck Replacement		80,000
Total: Fire-Vehicles	0	780,000
Total Fire Services Capital	10,000	880,000
<u>General Administration & Financial Services</u>		
General Administration - Building Capital		
902 - City Hall Interior Sun Shades	18,000	
Total: General Administration - Building Capital	18,000	0
Financial Services-Vehicles		
577 - 1/2 Ton Truck Replacement - Assessment Unit # 106	26,000	
Total: Vehicles & Equipment - Financial Services	26,000	0
Total General Administration & Financial Services Capital	44,000	0
<u>Information Technology Services</u>		
IT Services - Infrastructure Capital		
101 - Server Upgrades	45,000	45,000
495 - IT - Firewall Replacements		35,000
499 - IT - Web Gateway Device		25,000
516 - Phone System Upgrade	50,000	30,000
657 - Enterprise Wide Management System	250,000	250,000
802 - IT - Load Balancer		30,000
867 - EOC Upgrade	20,000	
891 - IT - Network Security Sensor	65,000	
98 - Network Fibre Installation	30,000	30,000
Total: IT Services - Infrastructure Capital	460,000	445,000
Total Capital	514,000	1,325,000
PROJECT FUNDING	2017	2018
Municipal Levy	443,000	445,000
Proceeds on Disposal	4,000	20,000
Reserve-Fire Equipment		760,000
Reserve-General Capital - Carryforward Funds		25,000
Reserve-Computer Replacement	45,000	75,000
Reserve-Equipment Replacement	22,000	
Total Project Funding	514,000	1,325,000

Capital Projects

Corporate & Protective Services & Other

PROJECT DESCRIPTIONS

Fire Services - Infrastructure Capital

Project 664 - Fire Hall Concrete Apron Slabs and Curb Refurbishment - Project is scheduled for 218 and 2019. In 2018, efforts will be focused on improvements to curbs and sidewalks. Assessment of the concrete apron will also take place in 2018 and scheduled accordingly. Currently it is in 2019 but may change depending on the results of the condition assessment.

General Administration - Infrastructure Capital

Project 902 - City Hall Interior Sun Shades - Installation of translucent sun shades on various interior offices & meeting spaces within City Hall. From late fall to early spring when the sun is low in the sky, direct sunlight shines into various south facing windows at City Hall, creating issues with glare and excessive heat for staff members. The installation of translucent sun shades will allow staff to comfortably work in these offices & meeting spaces while still allowing for indirect light and heat to enter the building, keeping down the ongoing operational cost for the building.

IT Services - Infrastructure Capital

Project 101 - Server Upgrades: This is the cost of replacing servers as their warranties expire. With the addition and expansion of our fiber network as well as City Hall including a data center, server consolidation may be possible in the future. Estimate approximately one major server replacement per year, plus one or more minor server. Funding for this work is already accounted for in the computer reserve fund, which is financed out of operating budgets each year.

Project 495 - IT - Firewall Replacements - Our existing redundant firewalls are going to be at their end of support (EOS) in 2018. The firewalls support contract cannot be renewed past this date and need to be replaced with newer, higher capacity models.

Project 499 - IT - Web Gateway Device - We currently only have one Web Gateway device. In the event of a failure the City's online services will be rendered inaccessible. Adding an additional Web Gateway builds redundancy into the system.

Project 516 - Phone System Upgrade - This is phase 3 of a 3-year phone upgrade for the City of Camrose. The remaining locations to be upgraded are Camrose Police Service and the Camrose Golf Course. This replaces the aging NEC system with a new digital unified communications system preparing them for the provinces enhanced 911 requirements and future backup 911 call center requirements.

Project 657 - Enterprise Management Wide System - A service plan focused on service delivery by providing recommendations on the establishment of a number of enterprise foundational applications from which the City of Camrose could enhance service delivery. Some of the priorities that were flagged are an enhanced ERP system, Community Service facility management and online booking system, online payments and citizen self-service, enhanced permit applications and workflow.

Project 802 - IT - Load Balancer - Our current load balancer provides redundancy for IT services like DNS, email, phone systems, and Internet access. Unfortunately, our current load balancer is end of support in 2018 and itself not a redundant device. This project will replace the existing load balancer with 2 redundant models.

Project 867 - EOC Upgrade - Our current Emergency Operations Center and Disaster Recovery site is at the Camrose Fire Department. Several redundant systems have been moved to this location in order to support the rest of the City and the public in the event of an Emergency or a catastrophic event at City Hall. Unfortunately, the additional EOC was not designed to support the power requirements and the heat generated by this additional equipment. This project supports adding additional backup power circuits and cooling to this facility.

Project 891 - IT - Network Security Sensor - Our current 2750 Network Security Sensor is end of support in 2017. These devices scan all network traffic for various forms of malicious files, vulnerabilities, and malware. The replacement device will also support the faster 10 Gb fiber link between City Hall and Camrose Police.

Project 98 - Network Fibre Installation - Continue with fibre network installs throughout the City. Complete the redundant fiber link from the Water Treatment Plant and the Camrose fire Department. Conduit was installed in 2016 but the fiber still has to be run. Continue west on Camrose Drive from Parkview Drive to complete an additional redundancy in our fiber network.

Capital Projects Police Protection

PROJECT COSTS	2017	2018
<u>Police Capital</u>		
Police Technical		
920 - Storage Area Network	210,000	
921 - E-Ticketing	15,000	
922 - Backup Dispatch/E-911 Centre - City Hall		50,000
923 - Replacement of VeriPic Bar Code System		40,000
Total: Police Technical	225,000	90,000
Police-Facility		
305 - Police Station-Upgrades		90,000
Total: Police-Facility	0	90,000
Police-Vehicles		
166 - Police Vehicle Replacement	50,000	
424 - Photo Radar Vehicle Replacement	20,000	
611 - Police Vehicle Replacement		55,000
612 - Police Vehicle Replacement		50,000
655 - Unmarked Vehicle Replacement	15,000	15,000
Total: Police-Vehicles	85,000	120,000
Total: Police Capital	310,000	300,000

PROJECT FUNDING	2017	2018
Municipal Levy	310,000	300,000
Total Project Funding	310,000	300,000

PROJECT DESCRIPTIONS

Police Technical

Project 920 - Storage Area Network - Build a storage solution to house and manage our electronic video records. The system will include 84 Terabytes of storage, with off site redundancy and network video recorder software.

Project 921 - E-Ticketing - electronically produce violation tickets in a mobile environment, through the use of scanners and printers, which auto populate to our records system, significantly reducing our data entry requirements.

Project 922 - Backup Dispatch/E-911 Centre - City Hall - Create a backup E911/Dispatch Centre at City Hall.

Project 923 - Replacement of VeriPic Bar Code System - Our current evidence bar code system is nearing end of life. Replacement VeriPic Bar Code meets all requirements.

Police-Facility

Project 305 - Police Station-Upgrades: To meet the training needs and compliance testing, an addition or off-site facility is required.

Capital Projects -Engineering & Public Works

General Administration

PROJECT COSTS	2017	2018	2019
<u>Public Works - Capital</u>			
PW-Buildings/Improvements			
12 - Public Works Stores and Yard (New Property)	0	4,150,000	3,862,000
Total: PW-Buildings/Improvements	0	4,150,000	3,862,000
PW-Vehicles & Equipment			
49 - Loader (large) Replacement-PW #387		350,000	
568 - International Bucket Truck replacement - PW #306		150,000	
569 - Equipment Replacement - Spray Patcher #317	85,000		
57 - Grader Replacement-PW #321	420,000		
573 - 1/2 Ton Truck Replacement - PW #371	26,000		
574 - Tandem Truck Replacement-PW #379	140,000		
575 - Tandem Truck Replacement-PW #384	140,000		
618 - Small Loader Replacement #310		60,000	
619 - Crack Router Replacement - PW #322		15,000	
620 - Tar Kettle Replacement #332		40,000	
622 - 2 Ton Truck Replacement #381		60,000	
623 - 1/2 Ton Truck Replacement - PW #383		26,000	
7 - Grader Replacement-PW #323	420,000		
71 - Steamer Unit Replacement-PW #354		65,000	
783 - Replace Unit #351 - Graco Paint Machine	10,000		
914 - Forklift - New for Public Works	37,500		
Total: PW-Vehicles & Equipment	1,278,500	766,000	0
Total Public Works - General Capital	1,278,500	4,916,000	3,862,000

PROJECT FUNDING	2017	2018	2019
Grant - MSI		288,000	3,862,000
Reserve-Water		3,862,000	
Proceeds on Disposal	386,000	218,500	
Reserve-Equipment Replacement	892,500	547,500	
Total Project Funding	1,278,500	4,916,000	3,862,000

PROJECT DESCRIPTIONS

Capital - Public Works Infrastructure

Project 12 - Public Works Stores and Yard (New Property) - The City has already outgrown its existing facilities, and is operating out of several satellite locations. This project includes the purchase of an existing building and renovating it to suit the City's needs.

Capital Projects - Engineering & Public Works

Roads, Lights & Signals

PROJECT COSTS	2017	2018
<u>Capital - Engineering</u>		
Arterial Roads		
29 - 48 Avenue Service Road Upgrades	100,000	850,000
47 - 54 Ave Overlay (53-62 Street)	510,000	
54 - 68 Street Overlay (RRxing to North of 54 Ave)		10,000
314 - 48 Ave Bridge Replacement & Capacity Improvements	6,000,000	1,500,000
580 - Community Wayfinding Signage	100,000	
858 - 39 St Rehabilitation (44 Ave to 42 Ave)	400,000	
904 - 48 Ave Intersection Rehab (various locations)	80,000	80,000
905 - 39 Street Rehab (48 Ave to CN tracks)		10,000
906 - 39 Street Rehab (48 Ave to 44 Ave)	10,000	325,000
907 - 53 Street Rehab (45A Ave to 48 Ave)	300,000	
909 - 48 Avenue / 50 Street Rehab	200,000	
910 - 53 St / Parkview Dr Rehab (55 St to 43 Ave)	5,000	290,000
915 - 48 Ave Rehab (west City limit to west of 73 St)		600,000
Total: Arterial Roads	7,705,000	3,665,000
Lights & Signals		
28 - Traffic Signals Upgrades		400,000
Total: Lights & Signals	0	400,000
Local Roads		
632 - Industrial Park roadway paving	800,000	0
792 - Valleyview Final Lift Paving	150,000	225,000
911 - 50 Ave Overlay (51 St to 52 St)	5,000	75,000
912 - 50 Street Overlay & Sidewalks (54 Ave to 55 Ave)	80,000	300,000
913 - Local Roadway Intersection Rehab (various locations)	80,000	80,000
Total: Local Roads	1,115,000	680,000
Total: Roads, Lights & Signals	8,820,000	4,745,000

PROJECT FUNDING	2017	2018
Municipal Levy	450,000	260,000
Grants - BMTG & GTF	4,634,000	3,220,000
Debenture - Local Improvements	970,000	290,000
Water - Operating	80,000	
Reserve - Dedicated Road Program	250,000	750,000
Offsite Levies	2,286,000	
Land Fund	150,000	225,000
Total Project Funding	8,820,000	4,745,000

Capital Projects - Engineering & Public Works

Roads, Lights & Signals

PROJECT DESCRIPTIONS

Arterial Roads

Project 29 - 48 Avenue Service Road Upgrades: Upgrade the pavement, street lights and sidewalks along 48 Avenue in the areas constructed with Service roads. The City engaged a consultant in 2016 to look at the existing infrastructure and to meet with adjacent property owners to confirm the need and scope for this project. Generally speaking, the report recommended that all service roads would remain over the next 20 year timeframe. However, all 2-directional service roads would be converted to 1-directional service roads. West service roads (between 66 St and 56 St) were determined to be higher priority than east service roads (east of 39 St). Administration is recommending that the west end service roads be modified over the next 10 years, with the east end service roads being modified in the 10-20 year timeframe (unless significant safety or operational concerns develop). The exception to this is the possible right-in, right-out conversion of the intersection of Hwy 26 with the service road north of Hwy 13, which is recommended at the time of additional development within the East Gateway area.

Project 47 - 54 Ave Overlay (53-62 Street) - Surface deterioration has necessitated the need for an overlay of this section of roadway. Project was originally budgeted in 2013 on a slightly reduced scope (53 St to 60 St) but was petitioned against at that time. Administration has reviewed the condition of the roadway, and is recommending that this overlay be completed.

Project 54 - 68 Street Overlay (RRxing to North of 54 Ave) - Final lift paving of this section of roadway was never installed. This construction will extend the life of this arterial roadway.

Project 314 - 48 Ave Bridge Replacement & Capacity Improvements - Project has been approved by Council (November 21 Council Meeting). Design and construction for the replacement of the existing 48 Avenue roadway bridge across Mirror Lake. Project to involve replacing existing structure in short term with new structure that meets long term capacity requirements. As per current Council direction, this bridge is being designed based on a 7 lane open span bridge, and will incorporate a grade change going into downtown as well as a pedestrian underpass box culvert to allow trail users to pass under the roadway from the north to the south side of 48 Avenue. Given the additional capacity that the bridge & roadway improvements will provide, the use of Off Site Levy has been used as a source of funding for this project.

Project 580 - Community Wayfinding Signage: Final phase of City-wide wayfinding signage program. Geared toward assisting tourists and non-local drivers to find some of the key tourist destination centers in the City.

Project 858 - 39 St Rehabilitation (44 Ave to 42 Ave) - Rehabilitation of 39 Street from 44 Avenue to 42 Ave. Due to level of deterioration seen, a full depth (150mm) mill and asphalt inlay is recommended between 44 Ave and 42 Ave.

Project 904 - 48 Ave Intersection Rehab (various locations) - Full intersection rehabilitation at various locations along 48 Avenue. Continuation of work done in prior years. These locations have experienced significant rutting & distress as a result of age and regular wear & tear. Spot repairs & overlay of intersection to extend life of facility. Not specifically identified in the Tetra Tech study, which mostly focused on sections between intersections. Budget assumes that one major intersection is seeing rehabilitation each year.

Project 905 - 39 Street Rehab (48 Ave to CN tracks) - Ongoing rehabilitation of 39 Street between 48 Avenue & the CN rail crossing near the pipe plants. As a result of the Tetra Tech report from 2015, a number of locations along 39 Street were identified as needing rehabilitation.

Project 906 - 39 Street Rehab (48 Ave to 44 Ave) - Ongoing rehabilitation of 39 Street between 48 Avenue & 44 Avenue. As a result of the Tetra Tech report from 2015, a number of locations along 39 Street were identified as needing rehabilitation.

Project 907 - 53 Street Rehab (45A Ave to 48 Ave) - Surface deterioration over time has necessitated rehabilitation of this section of roadway. Some minor concrete replacements. Work will be staged / scheduled to minimize impact on the hospital.

Project 909 - 48 Avenue / 50 Street Rehab - Based on recommendations from 2015 Tetra Tech study, this project will involve grinding and overlay to 48 Avenue, from 51 Street to 49 Street, as well as 50 Street (47 Avenue to 48A Avenue). Component on 50 Street will be largely limited to inside (travel) lanes, so there will likely be no local improvement component to this project.

Project 910 - 53 St / Parkview Dr Rehab (55 St to 43 Ave) - Surface deterioration over time has necessitated rehabilitation of this section of roadway. Some minor concrete replacements. Minor local improvement component expected.

Project 915 - 48 Ave Rehab (west City limit to west of 73 St) - Based on recommendations from 2015 Tetra Tech study, this project will involve spot repairs and overlay to 48 Avenue, from the west City limits to a location west of 73 Street (where the highway transitions from undivided to divided). Work is being coordinated with a planned overlay of Hwy 13 by the Province.

Capital Projects - Engineering & Public Works

Roads, Lights & Signals

Lights & Signals

Project 28 - Traffic Signals Upgrades - Ongoing upgrades to traffic signals throughout the City. Improvements to include: davit arms, LED heads, loops in roadway, traffic cabinet, associated underground improvements (conduit / cabling / etc.). Anticipate one major project every two years until all signals are upgraded.

Local Roads

Project 632 - Industrial Park roadway paving - Paving of existing gravel roadways in City's industrial park. Roadways include: 37 St (42 Ave to 44 Ave), 43 Ave (east of 38 St) and 42 Ave (east of 38 St). These roads were proposed to be paved in 2007, but were successfully petitioned against at that time by local area businesses. Under City's local improvement policy, the majority of project costs are to be borne by adjacent properties. However, Administration anticipates that some costs will be incurred by the City for incidental work that is normally not covered under the Local Improvement Policy.

Project 792 - Valleyview Final Lift Paving - Final lift paving in Valleyview residential subdivision.

Project 911 - 50 Ave Overlay (51 St to 52 St) - Based on recommendations from Tetra Tech study, this project will involve a rehabilitation (mill and fill, overlay as needed) of 50 Avenue, between 51 Street and 52 Street.

Project 912 - 50 Street Overlay & Sidewalks (54 Ave to 55 Ave) - Based on recommendations from Tetra Tech study, this project will involve a rehabilitation (mill and fill, overlay as needed) of 50 Street, between 54 Avenue and 55 Avenue. Also, since this street does not have sidewalks on either side of the road, Administration is proposing to install sidewalks on at least one side of the roadway, although this may also require the City to relocate curbs on one or both sides of the road to narrow the road & fit the sidewalks within the City right-of-way.

Project 913 - Local Roadway Intersection Rehab (various locations) - Full intersection rehabilitation at various local roadway intersections throughout the City. Similar to work happening along various intersections on 48 Avenue. These locations have experienced significant rutting & distress as a result of age and regular wear & tear. Spot repairs & overlay of intersection to extend life of facility. Not specifically identified in the Tetra Tech study, which mostly focused on sections between intersections. Budget assumes two or three intersections seeing rehabilitation each year.

Capital Projects - Engineering & Public Works

Storm Systems

PROJECT COSTS	2017	2018	2019
<u>Capital - Engineering - Storm Systems</u>			
Ponds & Structures			
116 - Storm Structure Upgrades	60,000	60,000	
300 - Mirror Lake Spillway Upgrade		890,000	
700 - CN Pond Inlet Drainage Channel Improvements and Upgrading	50,000	550,000	100,000
Total: Storm Sewers - Capital	110,000	1,500,000	100,000

PROJECT FUNDING	2017	2018	2019
Municipal Levy	70,000	199,000	10,000
Grants - Other	40,000	1,301,000	90,000
Total Project Funding	110,000	1,500,000	100,000

PROJECT DESCRIPTIONS

Storm Systems

Project 116 - Storm Structure Upgrades: Replacements and/or major restoration of storm ponds and outfall structures around the City. Many of these upgrades were identified in a recent infrastructure review by external consultants. This will be a multi-year project to complete all of the required upgrades, which will be prioritized based on the recommendations from the consultant with input from operations staff.

Project 300 - Mirror Lake Spillway Upgrade - will include construction of a new potable waterline around the spillway structure so that the existing waterline that runs under the spillway can be abandoned. This work will significantly reduce the risk of spillway washout due to watermain leaking / breaks. Project is dependent on grant funding. If not received, it will be deferred.

Project 700 - CN Pond Inlet Drainage Channel Improvements and Upgrading - Twinning of the CN pond inlet channel from 41 St to CN pond, plus repairs at CN pond inlet (erosion). An area of land was acquired by the City in 2014 to facilitate this capital project. Ongoing erosion is happening along this channel, as the current channel (constructed back in the early 1970's) does not have sufficient capacity to accommodate current flows. Administration has submitted a grant application to the Province to help finance this work. If approved, the City would plan to undertake detailed design in 2017, and proceed with construction in 2018/19. If grant funding is not approved, Administration is likely planning to propose that this work be financed through a local improvement tax on benefitting property owners within the east end industrial park.

Capital Projects - Engineering & Public Works

Airport

PROJECT COSTS	2017	2018
<u>Capital - Engineering - Airport</u>		
15 - Hangar Lot Development		300,000
797 - Airport - FOD Boss 8 Ft		12,000
Total: Airport - Capital	0	312,000

PROJECT FUNDING	2017	2018
Grants - Other		12,000
Contributions from Developers		300,000
Total Project Funding	0	312,000

PROJECT DESCRIPTIONS

Airport

Project 15 - Hangar Lot Development - Continued development of airport hangar lots, to be made available for lease. Additional hangar lots will increase air traffic at Airport, and will reduce the overall municipal subsidy of airport operations (through additional lease revenue and fuel sales). Servicing of additional hangar lots to be completed over time, with City front-ending construction costs & recovering its costs through developer contributions

Project 797 - FOD Boss 8 Ft - Purchase of Foreign Object Debris (FOD) collection device for the Camrose Airport to facilitate the collection of material from the runway and other paved surfaces that might be taken up in an impeller / propeller and cause damage to aircraft. This is typically only needed on an infrequent basis, such as before major events (Snowbirds, Fly-in breakfast, etc.) Currently, the City uses a unit from another facility. However, we have been advised that this unit will no longer be made available. As this is requested in support of aviation events at the Camrose Airport, Administration hopes to engage the Camrose Flying Club to submit a grant application for this purchase (the City is not eligible for funding under the applicable grant program). Purchase would only proceed if the Flying Club is successful on this grant application.

Capital Projects - Engineering & Public Works

Land Development

PROJECT COSTS	2017	2018
<u>Capital - Engineering - Land Development</u>		
268 - Mohler Subdivision - Phase 3 -43 St Construction	330,000	460,000
Total: Land Development - Capital	330,000	460,000

PROJECT FUNDING	2017	2018
Land Fund	330,000	230,000
Contributions from Developers		230,000
Total Project Funding	330,000	460,000

PROJECT DESCRIPTIONS

Land Development

Project 268 - Mohler Subdivision - Phase 3 -43 St Construction - Finish off work within Mohler Phase 3 to allow for potential sale of Lot 15. Work includes topsoil stripping & grading of site, the construction of a common storm drainage ditch along the west side of the site (adjacent to, and providing benefit to Lots 16-18 to the north), as well as the construction of south section of 43 St (between Lot 15 and the current Pioneer Trucking site). Staged paving of 43 St, with 2nd lift asphalt to be installed within 3-5 year timeframe.

Capital Projects - Utilities

Capital Projects - Utilities - Water Systems

PROJECT COSTS	2017	2018	2019
Capital - Water Systems			
Supply-Water System			
709 - Decommissioning of Collector Well and old Lake Station	100,000		
Total: Supply-Water System	100,000	0	0
Distribution - Water System			
127 - Cast Iron Watermain Replacement (48 St from 48 Ave to 49 Ave)	1,100,000		
528 - 58 St Watermain replacement & road re-paving (south of 53 Ave)		280,000	180,000
917 - Replace Water Meter - HLPS #3		30,000	
919 - Marler Dr / Mt Pleasant Dr intersection - ductile iron watermain replacement	70,000		
Total: Distribution-Water System	1,170,000	310,000	180,000
Treatment-Water System			
133 - Water Treatment Plant Filter Upgrade	73,500	500,000	
850 - Backup Power & Service upgrade - Water Treatment Plant	1,000,000	400,000	
Total: Treatment-Water System	1,073,500	900,000	0
Water-Vehicles & Equipment			
570 - 1/2 Ton Truck Replacement - Water #329	26,000		
572 - 1/2 Ton Truck Replacement - Water#346	30,000		
621 - 1/2 Ton Truck Replacement - Water #375		26,000	
Total: Water-Vehicles & Equipment	56,000	26,000	0
Total: Water System - Capital	2,399,500	1,236,000	180,000

PROJECT FUNDING	2017	2018	2019
Municipal Levy	20,000		
Debenture - Local Improvements	45,000		60,000
Grants - BMTG & GTF	140,000		110,000
Water Operating	1,730,000	1,070,000	
Sanitary Operating	320,000	140,000	
Proceeds on Disposal	8,000	4,000	
Reserve-Equipment Replacement	48,000	22,000	
Reserve-Utility	88,500		10,000
Total Project Funding	2,399,500	1,236,000	180,000

Capital Projects - Utilities

Capital Projects - Utilities - Water Systems

PROJECT DESCRIPTIONS

Supply-Water System

Project 709 - Decommissioning of Collector Well and old Lake Station - With the construction of the new lake station, the City's former Collector Well and lake station are no longer required. This future project will involve the decommissioning and demolition of the old lake station, as well as the decommissioning and repurposing of the old collector well. The building itself is in relatively good condition and may still be used by the City for other purposes such as storage.

Distribution - Water System

Project 127 - Cast Iron Watermain Replacement (48 St from 48 Ave to 49 Ave) - Replace existing Cast Iron watermain on 48 St, from 48 Ave to 49 Ave. Ongoing maintenance issue due to corrosion. Sewer main & manholes are known by PW to be in poor condition. Most water services are old and undersized, with some being prone to freezing. This project has been deferred on a number of occasions given the current condition of the roads & sidewalks in the area.

Project 528 - 58 St Watermain replacement & road re-paving (south of 53 Ave) - This roadway, including sidewalks & curbs, are in poor condition. Upon review by Administration, it was determined that the underground utilities (including services up to each property line) are also in poor condition and should be replaced. Administration recommends undertaking replacement of underground utilities including services in 2018, with surface work to follow in 2019. Surface work would be subject to input from residents, in accordance with the City's local improvement policy. No local improvement funding may be used for water or sewer work.

Project 917 - Replace Water Meter - HLPS #3 - Replacement of existing water meter within High Lift Pump Station (HLPS) #3.

Project 919 - Marler Dr / Mt Pleasant Dr intersection - ductile iron watermain replacement - Planned replacement of existing ductile iron watermain & fittings at the intersection of Marler Drive & Mt Pleasant Drive. The City has seen a number of water breaks at this intersection over the past few years. While repairs have been made at the time of the breaks, much of the intersection is still the original cast iron and is in poor condition. This project would involve the replacement of existing watermain within the intersection to tie back into non-cast watermain on all sides to prevent future breaks. Some spot repairs to other infrastructure within the intersection (mainly storm) will also be required, based on site inspections.

Treatment-Water System

Project 133 - Water Treatment Plant Filter Upgrade - Replacement of aging filter media and underdrain system. Project will also likely involve addition of air scour system to improve the performance of the backwash process, thus further extending the life span of the new filters. In 2013, a major component of one of the filters collapsed due to age and rust. This indicates that this project is likely more critical. Study to be undertaken in 2017 to confirm upgrading needs, followed by implementation in future years.

Project 850 - Backup Power & Service upgrade - Water Treatment Plant - This project will upgrade the power service to the water treatment plant (WTP), as well as provide backup power generator to run the entire WTP facility during times of power outage. The current lack of backup power at the WTP is one of the key risks to the City's water system. As a result, the City needs to provide as much as 50% more storage than what other municipalities or water utilities typically provide (3 days of storage plus fire flows vs. 2 days of storage plus fire flows). Because of this, the City's water master plan identifies the need to upgrade the existing HLPS #2 reservoir and pump station in the short- to medium-timeframe. With a number of smaller upgrades (such as the provision of backup power to the WTP and the new raw water pumping station), the City would likely be able to reduce the size of the replaced HLPS #2 reservoir by ~50%, and could likely push off construction by 5-10 years. The power service to the WTP and the main switch gear are also recommended to be upgraded, as the existing service is effectively at capacity with no room for expansion.

Capital Projects - Utilities Wastewater Systems

PROJECT COSTS	2017	2018	2019	2020
Capital - Wastewater Systems				
Wastewater - Capital				
Treatment				
90 - Wastewater Treatment Plant Construction	4,000,000	10,000,000	22,000,000	4,000,000
Total: Treatment-Sanitary Sewer	4,000,000	10,000,000	22,000,000	4,000,000
Total: Wastewater - Capital	4,000,000	10,000,000	22,000,000	4,000,000

PROJECT FUNDING	2017	2018	2019	2020
Grants - AMWWP		10,000,000		
City Debenture			13,000,000	
Utility Reserves & Sanitary Operating	4,000,000		9,000,000	4,000,000
Total Project Funding	4,000,000	10,000,000	9,000,000	4,000,000

PROJECT DESCRIPTIONS

Project 90 - Wastewater Treatment Plant Construction - Under the City's current 10-year Wastewater Approval to Operate, as issued by the Province on August 1, 2012, the City is required to substantially upgrade its existing wastewater lagoons prior to the end of July 2022. Preliminary design of the facility upgrades is substantially complete. Expect preliminary design report to be complete and submitted to the Province in early 2017. Current project cost is anticipated to be ~\$40M (+/- 25%). Included in the above numbers are improvements to the City's sewage pumping facilities as well as long-term storage improvements.

Note: Financing for the project is dependent upon the application for the AMWWP Grant, and if unsuccessful, would change as required. The total project financing is shown for information purposes only. Administration will continue to compete for any and all Provincial and Federal funding opportunities.

Capital Projects - Utilities Recycling and Landfill

PROJECT COSTS	2017	2018
<u>Capital - Utilities - Recycling & Landfill</u>		
Recycling - Capital		
643 - Recycling - Site Paving		145,000
645 - Recycling - Cardboard Bailer Replacement		130,000
Total: Recycling	0	275,000
 Landfill - Capital		
711 - Landfill Expansion - Acquisition of Additional Lands	750,000	
Total: Landfill	750,000	0
 Total: Capital	 750,000	 275,000

PROJECT FUNDING	2017	2018
Reserve - Landfill	750,000	
Reserve - Recycling		275,000
Total Project Funding	750,000	275,000

PROJECT DESCRIPTIONS

Recycling

Project 643 - Recycling - Site Paving - Complete paving of the remainder of the City's recycle depot site.

Project 645 - Recycling - Cardboard Bailer Replacement - Replacement of existing cardboard bailer at Centra Cam. This unit is highly used by Centra Cam in the processing of material that comes in. Over the past few years, the City has been spending increasingly more time and effort on maintenance of the existing unit. In time, the existing unit is nearing its end of useful life and needs to be replaced.

Landfill

Project 711 - Landfill Expansion - Acquisition of Additional Lands to allow for long term expansion of the existing facility.