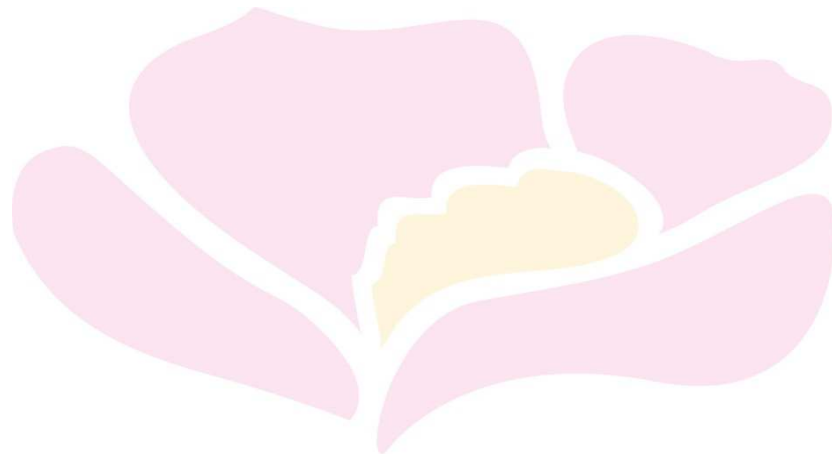




2021 and 2022 Capital Budget



Approved December 21, 2020

**City Of Camrose
Capital Budget 2021 & 2022 Projects
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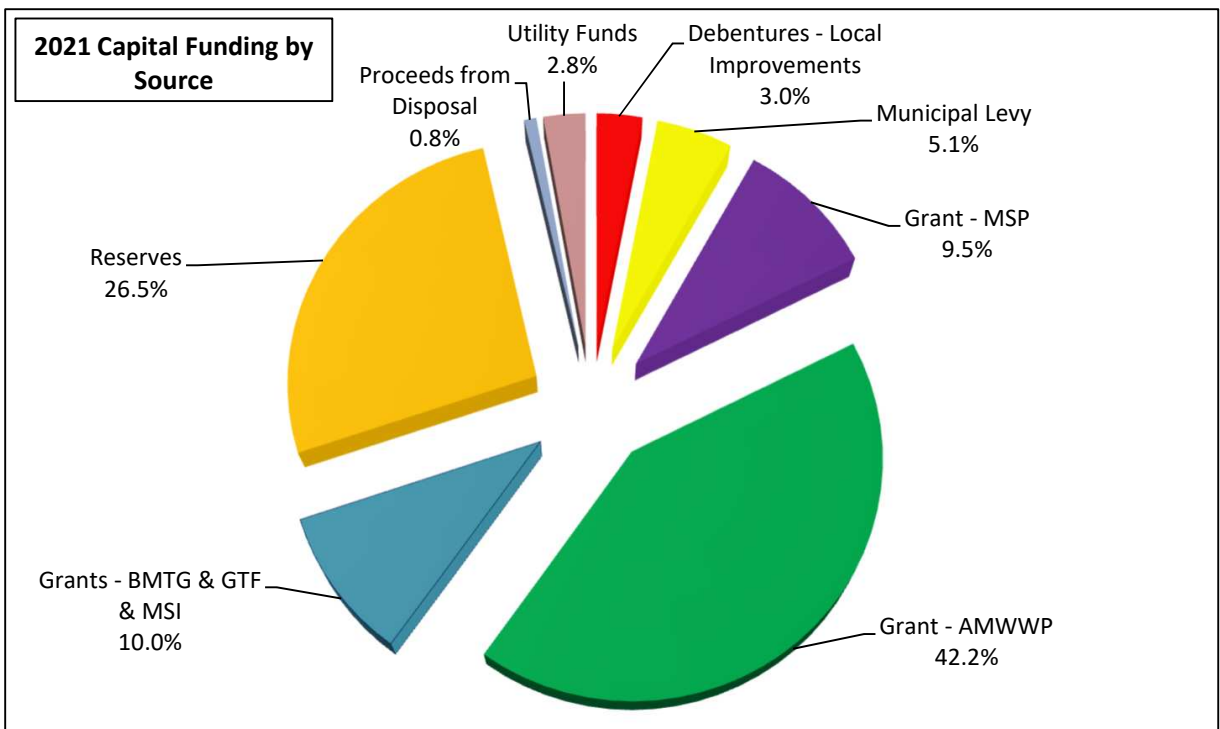
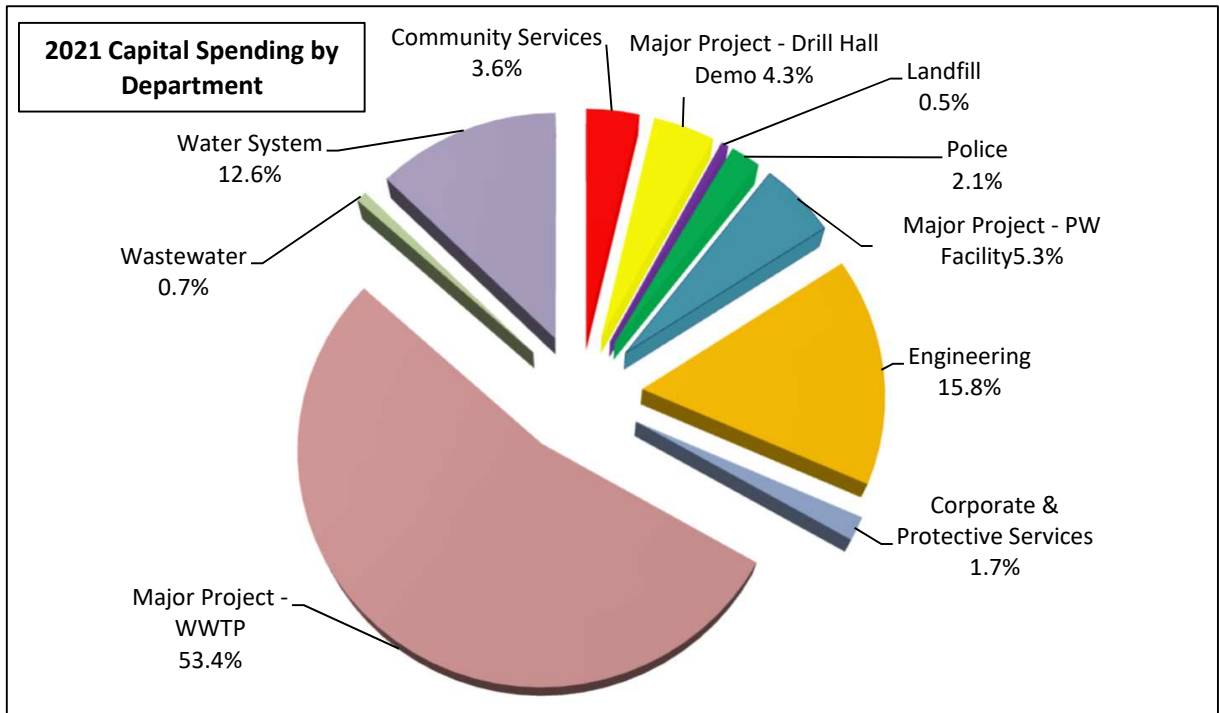
Summary Table - Total Costs 2021 & 2022 & Multi-Year Capital Projects

PROJECT COSTS	2021	2022	2023
<u>Capital - Community Services</u>			
Facilities	1,266,000	975,000	-
Parks	563,000	838,251	-
Golf Course	27,500	68,500	-
Total Community Services	1,856,500	1,881,751	-
<u>Capital - Corporate & Protective Services</u>			
Fire	60,000	60,000	-
General Administration & Financial Services	35,000	-	-
Information Technology	295,000	335,000	-
Total Corporate & Protective Services	390,000	395,000	-
Capital - Police Protection	490,600	514,600	-
<u>Capital - Engineering Services</u>			
General Operating			
General Administration	42,000	-	-
Public Works Facility	1,250,000	8,437,500	1,562,500
Vehicles & Equipment	662,000	1,105,000	-
Roads, Lights & Signals	2,547,400	3,364,400	-
Storm Systems	75,000	162,500	-
Airport	170,000	2,191,000	-
Land Development	210,000	-	-
Total Engineering Services - Operating	4,956,400	15,260,400	1,562,500
Utilities			
Water Systems	2,964,000	155,000	-
Wastewater Systems	12,725,000	15,970,000	11,860,000
Recycling	-	35,000	-
Landfill	120,000	1,009,500	-
Total Engineering Services - Utilities	15,809,000	17,169,500	11,860,000
Total Capital	23,502,500	35,221,251	13,422,500

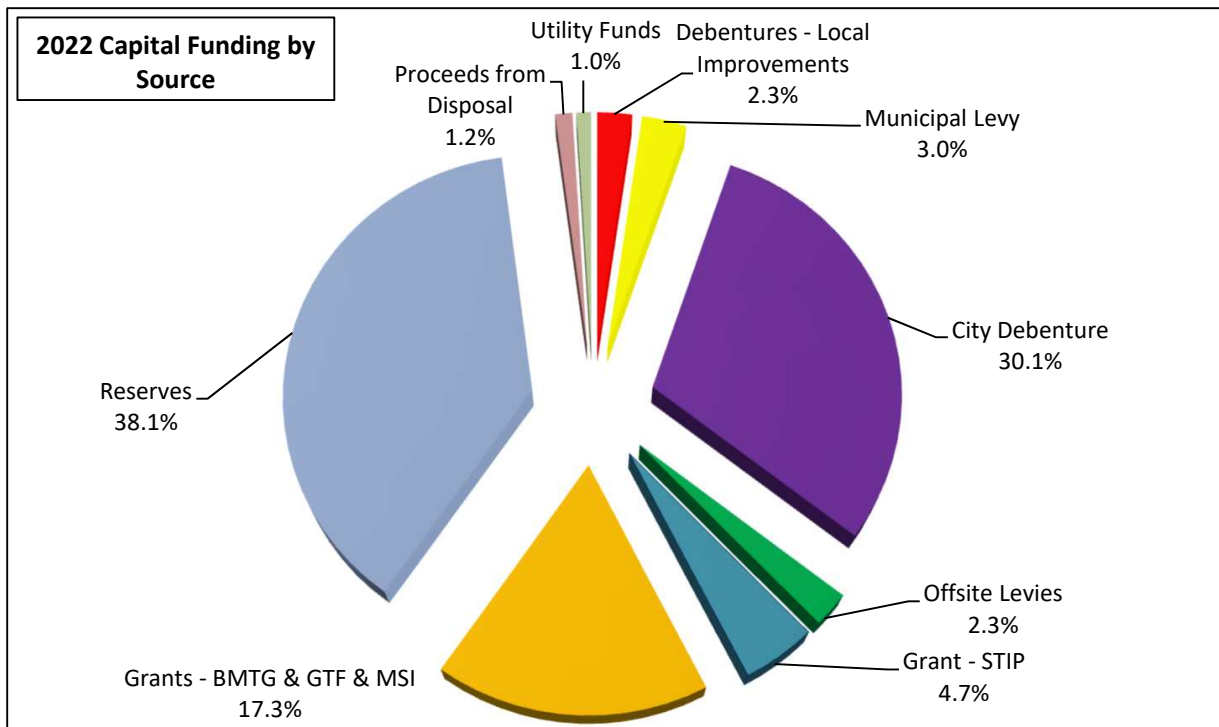
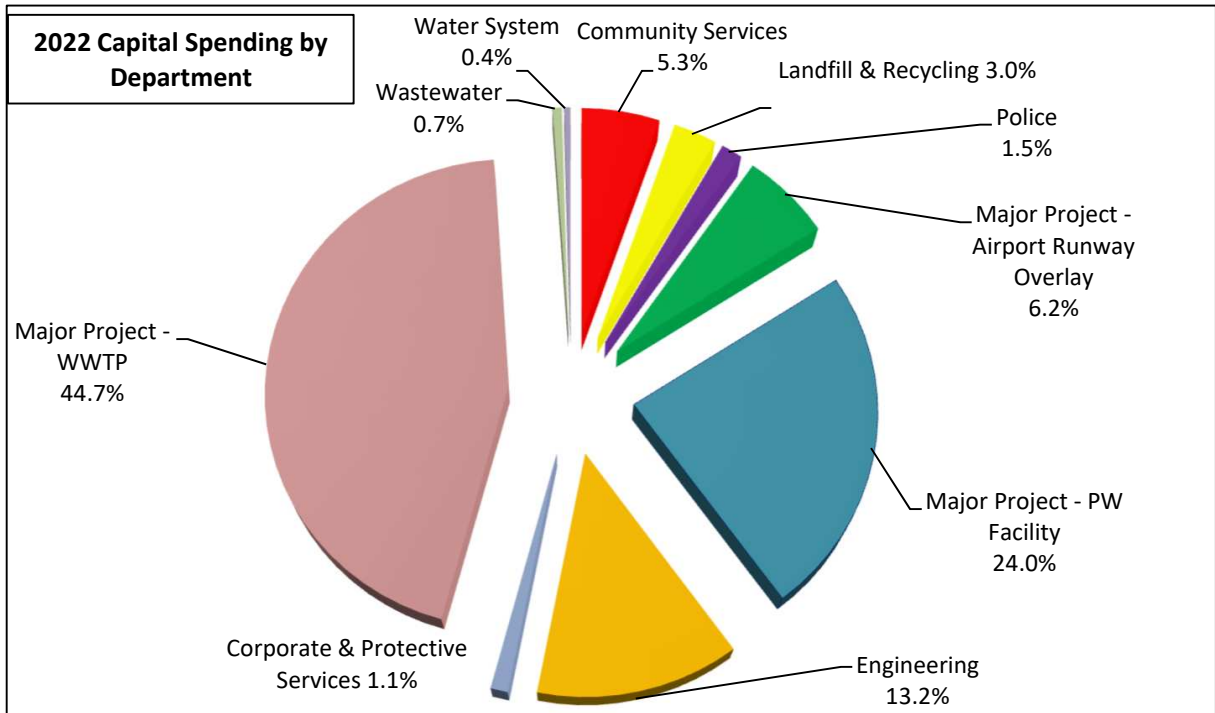
Summary Table - Total Funding 2021 & 2022 & Multi-Year Capital Projects

PROJECT FUNDING	2021	2022	2023
Municipal Levy	1,200,100	1,048,850	-
Grants			
Grants - BMTG/LGFF & GTF	2,279,354	3,246,000	781,250
Grants - MSI / LGFF	-	2,843,750	-
Grants - MSP	2,227,845	-	-
Grants - STIP	-	1,658,250	-
Grants - AMWWP	9,920,756	-	-
Other Grants	76,000	-	-
	14,503,955	7,748,000	781,250
Debenture			
Debenture - Local Improvements	714,646	817,000	-
City Debenture	-	10,600,000	-
	714,646	11,417,000	-
Contributions from Developers/Other Revenue	-	-	-
Offsite Levies	-	825,000	-
Utility Operating Funds			
Water Operating	486,155	110,000	-
Sanitary Operating	175,000	230,000	-
	661,155	340,000	-
Proceeds on Disposal	191,500	405,500	-
Reserves			
Reserve-Equipment Replacement	781,500	1,185,000	-
Reserve-Computer Replacement	117,000	35,000	-
Reserve-Water Utility	625,000	4,218,750	781,250
Reserve-Wastewater Utility	2,629,244	4,315,000	11,860,000
Reserve-Landfill	120,000	1,009,500	-
Reserve-Recycling	-	35,000	-
Reserve-Waste Management	-	-	-
Reserve-Airport	50,000	-	-
Reserve-Stabilization and Contingency	1,000,000	-	-
Reserve-Transportation Infrastructure	508,400	636,400	-
Reserve-Carryforward Funding	400,000	1,436,251	-
Reserve-General Infrastructure	-	566,000	-
	6,231,144	13,436,901	12,641,250
Total Project Funding	23,502,500	35,221,251	13,422,500

**City of Camrose
Capital Budget
2021 Total Capital = \$23,502,500**



**City of Camrose
Capital Budget
2022 Total Capital = \$35,221,251**



Capital Projects Community Services

	2021	2022
PROJECT COSTS		
Community Services-Facilities - Capital		
Facilities-Buildings/Improvements		
216 - Community Service Shop Expansion Plan	-	300,000
1028 - City Hall - Atrium Lighting Upgrade	20,000	-
1029 - City Hall - Arctic Hill Compressor Replacement	50,000	-
1030 - Stoney Creek Lodge - Replace Roof	40,000	-
872 - Curling Rink - Lighting upgrade	-	50,000
876 - Outdoor Recreation Court - Outdoor Rink	-	10,000
878 - Recreation Centre - Ice Plant upgrades Cooling Tower	-	450,000
989 - Drill Hall Demolition	1,000,000	-
991 - Curling Rink Roof Crickets	156,000	-
Total: Facilities-Buildings/Improvements	1,266,000	810,000
Facilities-Vehicles & Equipment		
685 - Replace Unit #704 -Olympic Ice Resurfacers	-	120,000
930 - Replace Unit #364 - B/M - 1/2 Ton Truck	-	45,000
Total: Facilities-Vehicles & Equipment	-	165,000
Total: Community Services-Facilities - Capital	1,266,000	975,000
Golf Course		
Golf Course - Vehicles & Equipment		
736 - Golf Course Toro GM3150 (Unit 608)	-	47,500
737 - Golf Course Toro Sandpro (Unit 615)	27,500	-
889 - Golf Course Club Car Beverage Car	-	21,000
Total: Golf Course	27,500	68,500
Community Services-Parks - Capital		
Parks-Play Areas		
234 - Playground Equipment Rehabilitation	120,000	-
Total: Parks-Play Areas	120,000	-
Parks-Trails		
194 - North Trail Extension	95,000	564,251
217 - Trail System Upgrades	150,000	-
898 - Parks - Mirror Lake Walking Bridge	-	72,000
Total: Parks-Trails	245,000	636,251

Capital Projects Community Services

	2021	2022
Parks-Vehicles & Equipment		
360 - Parks Vehicles - Out Front Mower (new)	28,000	-
363 - Replace Unit #801 - Parks - Out Front Mower	50,000	-
368 - Replace Unit #804 - Parks - 1/2 ton truck	-	35,000
695 - Replace Unit #823 - Bobcat Skidsteer	-	75,000
696 - Replace Unit #819 - Dodge 1 Ton with box and hoist	-	50,000
698 - Replace Unit #825 - Kubota Mower	25,000	-
699 - Replace Unit #834 - 1/2 Ton Truck	35,000	-
723 - Replace Unit #890 - 1 Ton Truck	50,000	-
805 - Replace Unit #805 - Parks - Walk Behind Mower	10,000	-
931 - Replace Unit #847 - Parks - 1 Ton	-	42,000
Total: Parks-Vehicles & Equipment	198,000	202,000
Total: Community Services-Parks - Capital	563,000	838,251
Total Community Services Capital - Project Costs	1,856,500	1,881,751

PROJECT FUNDING	2021	2022
Municipal Levy	278,000	60,000
Other Grants	76,000	-
Reserves - General Infrastructure	-	450,000
Reserves - Carryforward Funding	305,000	936,251
Reserves - Stabilization and Contingency	1,000,000	-
Reserves - Equipment Replacement	171,500	376,000
Proceeds on Disposal	26,000	59,500
Total Project Funding	1,856,500	1,881,751

Capital Projects Community Services

PROJECT DESCRIPTIONS

Community Services-Facilities - Capital

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

Project 1028 - City Hall - Atrium Lighting Upgrade - Upgrade city hall lighting in the front atrium to replaceable LED

Project 1029 - City Hall - Arctic Hill Compressor Replacement - Replace one of the two compressors in the chiller unit as it has been subject to failure.

Project 1030 - Stoney Creek Lodge - Replace Roof - Rebuild the roofing surface of the Stoney Creek Centre as part of regular building maintenance

Project 872 - Curling Rink - Lighting upgrade - Upgrade to LED lights. Administration will look into the Recreation Lighting upgrade grant to help supplement this project

Project 876 - Outdoor Recreation Court - Outdoor Rink - Approval is for design and pricing in 2022 with a placeholder for construction in 2023 for a central Pickleball / multi use surface along with boarded outdoor rink to be placed at the recreation centre. Overall approval of construction project will be given during 2023 budget deliberations.

Project 878 - Recreation Centre - Ice Plant upgrades Cooling Tower - The main recreation centre ice plant cooling tower was replaced early on in the life of the centre with an undersized cooling tower. As a result the ice plant struggles to maintain ice temperature when building ice, when under heavy ice use or when it's warm outside. This new ice cooling tower not only would be sized appropriately but also uses updated technology that is far more effective and efficient.

Project 989 - Drill Hall Demolition - A structural condition analysis on the Drill Hall in 2019 identified serious structural issues. Due to safety concerns, Council approved the demolition of the Facility. The approved budget was \$1.5M with the Drill Hall to be demolished in 2020. Due to COVID and concerns with asbestos, project experienced delays and will be completed in early 2021.

Project 991 - Curling Rink Roof Crickets - Project includes cricket repairs to alleviate chronic ice dam problems

Community Services-Parks - Capital

Project 234 - Playground Equipment Rehabilitation - Project involves the removal / replacement of existing playground structures due to aging of existing infrastructure. Near term focus is on playgrounds in Victoria Park and West Park Playground.

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. ACP has confirmed \$500k funding toward construction of underpass structure which will allow trail users to safely cross under CP tracks; CP to submit grant application to Transport Canada for funding assistance. Project will also involve installation of chain link fencing along north side of tracks to eliminate multiple illegal crossing locations. Project is dependent upon successful grant from Transport Canada.

Project 217 - Trail System Upgrades - Ongoing maintenance and resurfacing of paved trails throughout the city. 2021 will see some continuation of maintenance in the Stoney Creek park to the trestle, the berm trail in areas and address some failures around Mirror Lake.

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	2021	2022
Fire Services Capital		
Fire - Building Capital		
996 - Fire - SCBA Replacement	60,000	60,000
Total Fire Services Capital	60,000	60,000
Other Services		
Other - Vehicles		
939 - Replace Unit 105 - Health and Safety	35,000	-
Total Other Services Capital	35,000	-
Information Technology Services		
IT Services - Infrastructure Capital		
101 - Server Upgrades	25,000	35,000
495 - Firewall - Datacenter	65,000	-
497 - WLAN Upgrade	-	40,000
500 - SCADA NSP Replacement	30,000	-
658 - City Wireless Upgrades	20,000	-
98 - Network Fibre Installation	45,000	30,000
1023 - SQL Infrastructure Upgrade	35,000	-
1025 - Storage Upgrades	-	90,000
1053 - Organization Wide System Improvements/Initiatives	-	140,000
995 - Exchange Server (Email) Upgrade	75,000	-
Total: IT Services - Infrastructure Capital	295,000	335,000
Total Capital	390,000	395,000
PROJECT FUNDING		
Municipal Levy	280,000	220,000
Proceeds on Disposal	4,000	-
Reserves - Carryforward Funding	-	140,000
Reserves - Computer Replacement	75,000	35,000
Reserves - Equipment Replacement	31,000	-
Total Project Funding	390,000	395,000

Capital Projects

Corporate & Protective Services & Other

PROJECT DESCRIPTIONS

Fire Services - Infrastructure Capital

Project 996 - Fire - SCBA Replacement - The Fire department has 30 self contained breathing apparatuses (SCBAs). Due to the age and condition of the apparatus's, a replacement program has been established replacing six per year.

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 - Datacenter - Currently, there are minimal controls protecting the critical systems and data within the City of Camrose datacenter from attack in the event another system on the network is compromised. To address this concern, a next generation firewall cluster is required as an added security control to protect the datacenter from compromise.

Project 497 - WLAN Upgrade - Wireless LAN controllers will be end-of-life and are no longer supported.

Project 500 - SCADA NSP Replacement - McAfee Network Security Platform sensors that protect our critical infrastructure (SCADA devices) are end of life and need to be replaced.

Project 658 - City Wireless Upgrades - Point to point wireless links originating at the Camrose Police Service tower are end of life and are currently failing and need to be replaced

Project 98 - Network Fibre Installation - Continue with fibre network installation, fusion splicing, and terminations throughout the City.

Project 1023 - SQL Infrastructure Upgrade - Upgrade existing servers, configure redundant servers to minimize downtime, and ensure best practices are being implemented for security, backup and recovery.

Project 1025 - Storage Upgrades - Storage hardware is in good condition and should last until the end of 2027. Increasing capacity to ensure that the storage solution can extend beyond 2027.

Project 1053 - Organization Wide System Improvements/Initiatives - Purchasing a permitting and licensing software that has the ability to incorporate asset management, service requests, work orders, and the mobile mapping that GIS has been working on with ArcGIS Enterprise. 2022 will focus on permitting and licensing, with asset management acquisition and implementation targeted for 2024 (per future budget approval).

Project 995 - Exchange Server (Email) Upgrade - Existing email server's hardware is end of life and needs to be replaced. Upgrade server hardware and upgrade Exchange to the latest recommended and supported version.

Capital Projects Police Protection

PROJECT COSTS	2021	2022
Police Capital		
Police Technical		
922 - Police - Backup Dispatch/ E-911 Centre - City Hall	-	135,000
997 - Next Generation 911	300,000	300,000
1000 - McAfee IPS	50,000	-
Total: Police Technical	350,000	435,000
Police-Vehicles		
653 - Police Vehicle Replacement	125,600	64,600
655 - Unmarked Vehicle Replacement	15,000	15,000
Total: Police-Vehicles	140,600	79,600
Total: Police Capital	490,600	514,600

PROJECT FUNDING	2021	2022
Municipal Levy	482,100	224,600
Reserves - Carryforward Funding	-	285,000
Proceeds on Disposal	8,500	5,000
Total Project Funding	490,600	514,600

PROJECT DESCRIPTIONS

Police Technical

Project 922 - Backup Dispatch/E-911 Centre - City Hall - Create a backup E911/Dispatch Centre at City Hall. This is a legislated requirement for all 911 PSAP's to have an emergency back-up location in the event the main PSAP goes down. The previous approved capital placeholder for NG911 upgrades, included \$135,000 for a back up 911 Centre. This is mostly software and 2 work stations/phones that essentially are dormant, unless a disaster hits.

Project 997 - Next Generation 911 - Phase 1 of NG911 is the phone system required to upgrade to mandatory requirements by the CRTC. This will enable our 911 PSAP to intake phone calls, text messages, video and IP address reporting. It also includes upgrading the physical handsets in Police HQ (reducing from 55 handsets, to 33 handsets). The current phone system (Cisco) does not support Next Generation communications, and they have indicated they will not be entering the NG911 world. Phase 2 of NG911 will be the servers and CAD system that will "talk" to the NG911 phone system. This will bring our PSAP into compliance and serve the community for decades to come, leaving the analog world behind for the digital world.

Project 1000 - McAfee IPS - Camrose PS NSP Replacement - McAfee Network Security Platform sensors that protect our Police network from intrusion via adjacent networks (NG911 and National Police Service NW) are end of life and need to be replaced.

Capital Projects - Engineering & Public Works General Administration

PROJECT COSTS	2021	2022	2023
<u>Capital - Engineering</u>			
Engineering			
795 - Replace / Upgrade Survey Equipment	42,000	-	-
Total Engineering	42,000	-	-
<u>Public Works - Capital</u>			
PW-Buildings/Improvements			
1052 - Public Works Building	1,250,000	8,437,500	1,562,500
Total: PW-Buildings/Improvements	1,250,000	8,437,500	1,562,500
PW-Vehicles & Equipment			
291 - Replace Unit #385 - Skid Loader - PW	-	75,000	-
428 - Replace Unit #358 - PW - Street Sweeper	345,000	-	-
57 - Replace Unit #380 - Grader	-	370,000	-
623 - Replace Unit #355 - 1/2 Ton Truck	-	35,000	-
7 - Replace Unit #373 - Grader	-	370,000	-
751 - Replace Unit #314 - CAT 930 Wheel Loader	-	220,000	-
754 - Replace Unit #325 - Dodge 1/2 Ton Truck Ext Cab	35,000	-	-
757 - Replace Unit #334 - Case 560SN Loader Backhoe	185,000	-	-
758 - Replace Unit #337 - Ford 550 2 Ton Truck	62,000	-	-
772 - Replace Unit #391 - Chev 1/2 Ton Truck	-	35,000	-
776 - Replace Unit #307 - Dodge 1/2 Truck Ext Cab	35,000	-	-
Total: PW-Vehicles & Equipment	662,000	1,105,000	-
Total Public Works & Engineering - General Capital	1,954,000	9,542,500	1,562,500

PROJECT FUNDING	2021	2022	2023
Grant - MSI / LGFF	-	2,843,750	-
Grant - GTF	625,000	1,375,000	781,250
Reserve-Water	625,000	4,218,750	781,250
Proceeds on Disposal	145,000	333,000	-
Reserves - Computer Replacement	42,000	-	-
Reserves - Equipment Replacement	517,000	772,000	-
Total Project Funding	1,954,000	9,542,500	1,562,500

PROJECT DESCRIPTIONS

Capital - Engineering

Project 795 - Replace / Upgrade Survey Equipment - The purchase of a robotic total station to supplement the G.P.S. and replace the optical level for completing vertical layouts. A modern robotic total station is what is currently being used by most survey and engineering firms for construction layout similar for projects similar to those completed in the City of Camrose.

Capital - Public Works Infrastructure

Project 1052 - Public Works Building - This project involves the construction of a new Public Works Facility including a shop and office at the existing 51 Avenue site. This project includes detailed engineering design in 2021, and constructions through 2022 with project cleanup and completion in 2023.

Capital Projects - Engineering & Public Works Roads, Lights & Signals

PROJECT COSTS	2021	2022
Capital - Engineering		
Lights & Signals		
1038 - Signal Upgrades (48 Ave / 66 St, plus 68 St at Marler Dr, 45 Ave, and Safeway Entrance)	470,000	-
28 - Ongoing Traffic Signals Upgrades	50,000	230,000
Total: Lights & Signals	520,000	230,000
Arterial Roads		
1003 - 51 Avenue Re-alignment from 48 St. to Rail Crossing *	-	20,000
1035 - Rehabilitation of Township Road 464 Bridge	-	122,000
904 - Arterial Road Intersection Rehab (various locations, non LIMP)	80,000	80,000
950 - 39 St / 48 Ave Intersection Whitetopping *	-	10,000
953 - 48 Avenue Overlay & South Service Road Rehab (Mount Pleasant Drive to 56 St)	10,000	970,000
955 - 48 Ave. South Service Road Rehab (65 S.t to Comp Road) and 48 Ave. EB Lanes from 66 St. to	505,000	-
957 - 48 Avenue Rehab (mill and overlay) - 66 St to 68 St *	-	10,000
958 - 48 Avenue Rehab (mill and overlay) - 68 St to 73 St	-	-
Total: Arterial Roads	595,000	1,212,000
Local Roads		
1004 - 52A St Sidewalk Reconstruction (50 Ave to 51 Ave)	85,000	-
1005 - 61 Street Sidewalk Reconstruction (45 Ave to 47A Ave)	5,000	345,000
1032 - 48 Avenue S. Service Road - 39 Street to HWY 26	490,000	-
1033 - Grandview Crescent Overlay, Curb & Gutter, Sep. Walk	460,000	-
1037 - 50A Ave., 65 St., 65A St. North of 50 Ave. Mono & Overlay	290,000	-
1039 - 49 Ave. from Grand Dr. to 64 St. Overlay, Curb & Gutter, Sep. Walk	-	350,000
1042 - 48B Ave. from Grand Dr. to 64 St. Overlay, Curb & Gutter, Sep. Walk	-	350,000
1048 - 51 Street from 48 Avenue to 50 Avenue Asphalt Overlay	-	250,000
65 - 65-66 Street Overlay plus West sidewalk (Enevold to Marler Dr)	-	245,000
72 - Westmount Area Road Renewal (67 Street from Marler to 43 Ave & 42 Ave Cul-de-sac)	10,000	130,000
913 - Local Roadway Intersection Rehab (various locations, non LIMP)	80,000	80,000
960 - Erickson Dr Overlay (Enevold Dr to 62 St) plus 37 Ave Cul-de-sac *	-	5,000
968 - Comp Road Overlay (45 Ave to 48 Ave)	-	155,000
969 - Cul-De-Sac Entrance Signage	12,400	12,400
Total: Local Roads	1,432,400	1,922,400
Total Arterial and Local Roads	2,027,400	3,134,400
Total: Roads, Lights & Signals	2,547,400	3,364,400

* Budget approvals in 2022 for these projects are for design only. Projects will be reviewed, proceeding with construction if approved as part of 2023 Budget deliberations.

PROJECT FUNDING	2021	2022
Municipal Levy	40,000	40,000
Grants - BMTG/LGFF & GTF	892,654	1,871,000
Grants - MSP	700,000	-
Debenture - Local Improvements	406,346	817,000
Reserve - Transportation Infrastructure	508,400	636,400
Total Project Funding	2,547,400	3,364,400

Capital Projects - Engineering & Public Works

Roads, Lights & Signals

PROJECT DESCRIPTIONS

Lights & Signals

Project 1038 - Signal Upgrades (48 Ave / 66 St, plus 68 St at Marler Dr, 45 Ave, and Safeway Entrance) - Replacement of remaining signal infrastructure at 48 Avenue / 66 Street (SW and SE poles, associated infrastructure). This project will also include the upgrading of the existing half-signals at 68 Street / Marler Drive to full signals, as well as the installation of roadside rectangular rapid flashing beacon signals at 68 Street / 45 Avenue and at 68 Street / Safeway entrance, in accordance with Council motions #77/20 and 78/20. Project has been approved for funding under the Municipal Stimulus Program and must be completed in 2021.

Project 28 - Traffic Signals Upgrades - Ongoing upgrades to various traffic signals, pedestrian crossing signals, and/or rail crossing signals throughout the City. Typical improvements may include such items as: replacement of aging signal poles & equipment, upgrading of signal heads to allow for additional turning functions (such as dedicated left turn phases), installation of traffic detection cameras to replace aging roadway loops, and upgrading of traffic cabinets. The 2021 focus will be on 46 St / 48 Ave, and that the 2022 focus will be on the signals at Mount Pleasant Dr / 48 Avenue.

Arterial Roads

Project 1003 - 51 Avenue Re-alignment from 48 St. to Rail Crossing - Based on recent site observations and the 2019 Tetra Tech Pavement Condition Assessment this project will involve a major rehabilitation of 51 Avenue, between the Railway Tracks to 48 Street intersection.

Project 1035 - Rehabilitation of Township Road 464 Bridge - The City re-engaged Associated Engineering (AE) in 2020 to complete an assessment of this bridge. AE's recommendation was to complete major rehabilitation work on this bridge in the short term, as this would extend the life of the facility for ~15 years. Engineering is recommending rehab work be completed in 2022, with eventual replacement of bridge in the late 2030's. Scope of 2022 work includes: replace timber decking, repair guardrail, replace guardrail posts (2), replace all bridge rail posts (10), replace wheel guard (8.5m), repair southeast wingwall, install new stubs for H-piles (3), etc.

Project 904 - Arterial Road Intersection Rehab (various locations) - Full intersection rehabilitation at various locations along the City's various arterial roadways (48 Avenue, 39 Street, 68 Street, Camrose Drive, etc.). 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.

Project 950 - 39 St / 48 Ave Intersection Whitetopping - Replacement of existing asphalt roadway surface at intersection of 39 St & 48 Ave with concrete to fix and prevent significant roadway rutting that is happening. Concrete whitetopping has been used at various other locations within the City with great success.

Project 953 - 48 Avenue Overlay & South Service Road Rehab (Mount Pleasant Drive to 56 St) - Major rehabilitation of 48 Avenue between Mount Pleasant Drive and 56 St and the south service road. Scope to include: widening of EB 48 Ave travel lanes (plus curbs / gutters), narrowing of south service road, new mono sidewalk / curb / gutter on south side of service road, complete rebuilding of service road asphalt, replacement of concrete separator between service road and eastbound 48 Ave lanes, and new street lights.

Project 955 - 48 Ave. South Service Road Rehab (65 St to Comp Road) and 48 Ave. EB Lanes from 66 St. to Grand Dr. - Rehabilitation of service road on south side of 48 Avenue, between 65 Street and Comp Road. 50mm milling and overlay of existing asphalt. No plans at this time to convert the service road from 2-way to a 1-way service road (as was recommended in the 2016 McElhanney report). Also included in the project is replacement of concrete median separating service road and 48 Ave. Median will be re-aligned and made smaller to give proper lane widths to 48 ave. Fortis relocation required and included. A top lift of 50mm of Asphalt will be completed on the eastbound lanes of 48 Avenue from 66 st. intersection to tie-in at Grand Dr. intersection as part of this project. Spot sidewalk repairs only on the south side of the service road, not full replacement.

Project 957 - 48 Avenue Rehab (mill and overlay) - 66 St to 68 St - Rehabilitation of 48 Avenue (both directions), between 66 Street and 68 St, including auxiliary lanes on both sides. 50mm milling and overlay of existing asphalt, with no major work being done on concrete in the area.

Project 958 - 48 Avenue Rehab (mill and overlay) - 68 St to 73 St - Rehabilitation of 48 Avenue (both directions), between 68 St and 73 St, including auxiliary lanes on both sides. 50mm milling and overlay of existing asphalt, with no major work being done on concrete in the area.

Capital Projects - Engineering & Public Works

Roads, Lights & Signals

Local Roads

Project 1004 - 52A St Sidewalk Reconstruction (50 Ave to 51 Ave) - Reconstruction of existing monolithic sidewalks on the west side of 52A Street, between 50 Avenue and 51 Avenue. The existing straight faced mono sidewalks on the west side are in poor condition.

Project 1005 - 61 Street Sidewalk Reconstruction (45 Ave to 47A Ave) - Proposal to remove / replace the 1.2m separate walk on both sides of 61 Street from 45 Avenue to 47A Avenue. Several asphalt overlays have already taken place in the area. Some of the pedestrian ramps are already completed. Overall, sidewalk is in very poor condition - gravel in some places. No plans to do the roadway or curb and gutter at this time.

Project 1032 - 48 Avenue S. Service Road - 39 Street to HWY 26 - Full re-construction of the 48 avenue service road south of 48 Avenue from 39 Street to HWY 26. No plans at this time to convert the service road from 2-way to a 1-way service road. This service road has a PCI <40 (Very Poor) Rating from the 2019 Tetra Tech Pavement Condition Assessment. Spot sidewalk repairs on the south side of the roadway will be required, but not full sidewalk replacement.

Project 1033 - Grandview Crescent Overlay, Curb & Gutter, Sep. Walk - As part of the overall Grand Park Area Road Renewal Project, road overlays are required to maintain the roadway surface condition on various roads within this neighborhood (North of 48 Ave, South and West of Mirror Lake, East of 66 St). Replacement of curbs/gutters and sidewalks as also part of this project.

Project 1037 - 50A Ave., 65 St., 65A St. North of 50 Ave. Mono & Overlay - As part of the overall Grand Park Area Road Renewal Project, road overlays are required to maintain the roadway surface condition on various roads within this neighborhood (North of 48 Ave, South and West of Mirror Lake, East of 66 St). Replacement of curbs/gutters and sidewalks as also part of this project.

Project 1039 - 49 Ave. from Grand Dr. to 64 St. Overlay, Curb & Gutter, Sep. Walk - As part of the overall Grand Park Area Road Renewal Project, road overlays are required to maintain the roadway surface condition on various roads within this neighborhood (North of 48 Ave, South and West of Mirror Lake, East of 66 St). Replacement of curbs/gutters and sidewalks as also part of this project.

Project 1042 - 48B Ave. from Grand Dr. to 64 St. Overlay, Curb & Gutter, Sep. Walk - As part of the overall Grand Park Area Road Renewal Project, road overlays are required to maintain the roadway surface condition on various roads within this neighborhood (North of 48 Ave, South and West of Mirror Lake, East of 66 St). Replacement of curbs/gutters and sidewalks as also part of this project.

Project 1048 - 51 Street from 48 Avenue to 50 Avenue Asphalt Overlay - As recommended by the 2019 Tetra Tech Pavement Condition Assessment and upon recent site observations, this section of roadway is in need of a 50mm asphalt overlay. Edge milling will be required. New line markings are part of the project.

Project 65 - 65-66 Street Overlay (Enevold to Marler Dr) - Based on recommendations from 2015 & 2019 Tetra Tech study and recent site observations, this project will involve a rehabilitation (overlay with milling of edges) of 65 St / 66 St, between Marler Drive and Enevold Drive. Replacement of mono sidewalks on west side of road. Minor concrete repairs as needed on east side of road.

Project 72 - Westmount Area Road Renewal (67 Street from Marler to 43 Ave & 42 Ave Cul-de-sac) - Road overlays are required to maintain the roadway surface condition on various roads within this neighborhood. Some minor concrete work, as required.

Project 913 - 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. May also consider flanking paving in residential areas where no local improvement component required.

Project 960 - Erickson Dr Overlay (Enevold Dr to 62 St) plus 37 Ave Cul-de-sac - Based on recommendations from Tetra Tech study and recent site observations, this project will involve a rehabilitation (overlay with minor milling of edges) of Erickson Drive, between Enevold Drive and 62 St, plus the 37 Ave Cul-de-sac (west of Erickson Dr). Minor concrete repairs as needed. No major replacement of existing curb / gutter or sidewalks.

Project 968 - Comp Road Overlay (45 Ave to 48 Ave) - Based on recommendations from 2019 Tetra Tech study and recent site observations, this project will involve a major rehabilitation (edge mill and fill) of Comp Rd. from 45 Ave. to 48 ave. Minor concrete repairs as needed. No major replacement of existing curb / gutter or sidewalks.

Project 969 - Cul-De-Sac Entrance Signage - Multi-year project to install cul-de-sac (or no exit) signage at the entrances of various cul-de-sacs within the City. This is to reduce complaints related to non-local traffic (including larger vehicles) entering a cul-de-sac by accident, thinking it was a through roadway, and then having to turn around within the cul-de-sac.

Capital Projects - Engineering & Public Works Storm Systems

PROJECT COSTS	2021	2022
<u>Capital - Engineering - Storm Systems</u>		
Ponds & Structures		
116 - Storm Structure Upgrades	75,000	75,000
973 - Major Ditch Maintenance - Industrial Park	-	47,500
700 - CN Pond Inlet Drainage Channel Improvements and Upgrading *	-	40,000
Total: Storm Sewers - Capital	75,000	162,500

* Budget approval in 2022 for Project 700 - CN Pond Inlet Drainage Channel Improvements and Upgrading is for design and will progress the project to a point where the City can proceed with a local improvement bylaw. Project will be reviewed as part of 2023 Budget deliberations with project proceeding if/as approved. 2023 Forecast currently includes \$702K construction project funded primarily with local improvements.

PROJECT FUNDING	2021	2022
Municipal Levy	-	87,500
Reserves - Carryforward Funding	75,000	75,000
Total Project Funding	75,000	162,500

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 973 - Major Ditch Maintenance - Industrial Park - Removal of vegetation and reshaping of major storm ditches (not roadside ditches) in industrial park. Initial focus on Olstead Industrial Storm Ditch (starting at west side of 37 St between 43 Ave and 44 Ave, and continuing northwest to intersection of 38 St and 44 Ave, as well as north of 44 Ave). Scope includes installing scour protection at various outfalls, replacement of failed outfall (OLS-08), and signage at all outfalls for ease of future maintenance.

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 is recommending that the City proceed with preliminary design as well as the local improvement process in 2022 to confirm if there is local support for this project. Tentative plan is to proceed with construction in 2023.

Capital Projects - Engineering & Public Works Airport

PROJECT COSTS	2021	2022
Capital - Engineering - Airport		
1050 - Replace Underground AvGas Fuel Tanks at Airport	150,000	-
19 - Airport Runway Overlay	20,000	2,191,000
Total: Airport - Capital	170,000	2,191,000

PROJECT FUNDING	2021	2022
Municipal Levy	100,000	416,750
Grants - STIP	-	1,658,250
Reserves - General Infrastructure	-	116,000
Reserves - Airport	50,000	-
Reserves - Carryforward Funding	20,000	-
Total Project Funding	170,000	2,191,000

PROJECT DESCRIPTIONS

Airport

Project 1050 - Replace Underground AvGas Fuel Tanks at Airport - Replace existing underground Avgas fuel tanks with new above-ground tanks. New cabinet and associated infrastructure.

Project 19 - Airport Runway Overlay - The Camrose Airport runway (Runway 14/32) was constructed in the 1970's and last improved as part of a runway extension in 1994. The runway pavement is currently in fair condition. The recent Airport Master Plan identified that an overlay was required sometime in the near future. This assessment & relative timeframe was confirmed in 2015 through the Tetra Tech asphalt condition assessment. The plan is to overlay the main runway as well as the main taxiway leading up to the terminal building, but not Taxiway Bravo or the paved areas that directly service the private hangar lots. The City has confirmed provincial funding for 75% of eligible costs through the Strategic Transportation Initiative Program (STIP).

Capital Projects - Engineering & Public Works Land Development

PROJECT COSTS	2021	2022
<u>Capital - Engineering - Land Development</u>		
535 - Mohler Subdivision - Phase 2	210,000	-
Total: Land Development - Capital	210,000	-

PROJECT FUNDING	2021	2022
Municipal Levy	10,000	-
Grants - BMTG/LGFF & GTF	200,000	-
Total Project Funding	210,000	-

PROJECT DESCRIPTIONS

Land Development

Project 535 - Mohler Subdivision - Phase 2 - Complete development of Mohler II subdivision. Work still to be done includes: 2nd lift asphalt 44 Ave (41 St to 43 St) and 43 St (south of 44 Ave to north edge of Mohler III). Timing of work planned for 2021, to correspond with timing of 2nd lift asphalt for Mohler III development (serviced by private developer).

Capital Projects - Utilities Capital Projects - Utilities - Water Systems

PROJECT COSTS	2021	2022
Capital - Water Systems		
Reservoir/Pump Stations		
978 - Roof Repair - HLPS #3 reservoirs (north and south)	746,000	-
Total: Reservoir/Pump Stations	746,000	-
Distribution - Water System		
1012 - HLPS #3 Pump Replacements	105,000	105,000
1031 - Relocate Bulk Water Station	200,000	-
974 - 51 Avenue Watermain Looping (52 St to 53 St)	-	5,000
975 - 51 Avenue Watermain Looping (42 St to 47 St), and Storm upgrades	848,000	-
976 - 46 Street Water & Sewer main and service replacement and surface rehab	880,000	-
Total: Distribution-Water System	2,033,000	110,000
Treatment-Water System		
1011 - WTP - Rehabilitate Lime Silo	75,000	-
1013 - WTP Flat Roof Resealing	40,000	-
Total: Treatment-Water System	115,000	-
Water-Vehicles & Equipment		
432 - Replace Unit#341 - 1/2 Ton Extended Cab	35,000	-
773 - Replace Unit #393 - Chev 1/2 Ton Truck	35,000	-
781 - Replace Unit #328 - Ford F250 Ext cab	-	45,000
Total: Water-Vehicles & Equipment	70,000	45,000
Total: Water System - Capital	2,964,000	155,000

PROJECT FUNDING	2021	2022
Municipal Levy	10,000	-
Debenture - Local Improvements	308,300	-
Grants - BMTG/LGFF & GTF	561,700	-
Grants - MSP	1,527,845	-
Water Operating	486,155	110,000
Proceeds on Disposal	8,000	8,000
Reserve-Equipment Replacement	62,000	37,000
Total Project Funding	2,964,000	155,000

Capital Projects - Utilities

Capital Projects - Utilities - Water Systems

PROJECT DESCRIPTIONS

Reservoir/Pump Stations

Project 978 - Roof Repair - HLPS #3 reservoirs (north and south) - A 2017 inspection by ISL Engineering found that the various roof joints for the potable water reservoirs at HLPS #3 (both north and south) are aging and are at risk of leaking into the reservoirs. The best long-term option (for reduced maintenance and risk to the water supply) is to relocate the courts to another location within the City and placement of topsoil / seed over the existing reservoirs. This project includes removing existing courts, repairing damage to roof of existing reservoirs, installation of topsoil and seed, and completing the Asphalt Courts at St. Pats School. The project was successful in receiving MSP grant funding and must be completed in 2021.

Distribution - Water System

Project 1012 - HLPS #3 Pump Replacements - Replacement of four pumps at high lift pumping station (HLPS) #3. Existing pumps are presently 37 years old and the estimated life cycle for distribution pumps is 40 years. This pump station is the City's primary pump station. This project will replace the existing pumps to minimize are risk for unplanned failure. Plan to replace two pumps in 2021 and the other two pumps in 2022.

Project 1031 - Relocate Bulk Water Station - Construct new bulk water fill station at off-site location and demolition of existing bulk water station at PW site. Work to be done in advance of PW site servicing and new shop / office building. The project was successful in receiving MSP grant funding and must be completed in 2021.

Project 974 - 51 Avenue Watermain Looping (52 St to 53 St) - Project design scheduled for 2022. Installation of new 200mm watermain along 51 Avenue, between 52 Street and 53 Street. Needed to provide looping of water network in downtown, and to supplement fire flows within downtown and elsewhere in the system, as recommended in the City's Water Distribution Master Plan. No need for significant sewer or storm sewer upgrades in the area. Work to be done prior to planned overlay work.

Project 975 - 51 Avenue Watermain Looping (42 St to 47 St), and Storm upgrades - Installation of approximately 600 meters of new 250mm watermain along 51 Avenue, between 42 Street (near Public Works) and 47 Street. Needed to provide looping of water network east of downtown, and to supplement fire flows within the areas, as recommended in the City's Water Distribution Master Plan. Watermain to include provisions for future connections to the north (under CP tracks). Project will also include extension of storm sewer along 51 Avenue (from recycle depot to Public Works - approximately 150m) to improve drainage along roadway, as well as to provide future storm service to PW site. The project was successful in receiving MSP grant funding and must be completed in 2021.

976 - 46 Street Water & Sewer main and service replacement and surface rehab - Replaced underground infrastructure in 2020. This included replacement of underground water and sewer infrastructure (mains and services to property lines) along 46 Street (45 Ave to 48 Ave - approximately 560 meters), in advance of reconstruction of roads, curbs / gutters and sidewalks. Surface infrastructure in poor condition as supported by 2015 Tetra Tech report and recent site observations.

Treatment-Water System

Project 1011 - WTP - Rehabilitate Lime Silo - Rehabilitation of lime storage silo at water treatment plant, including re-coating of the exterior of the silo, repair or replace 6 of the base steel panels in accordance with manufacturer's recommendations.

Project 1013 - WTP Flat Roof Resealing - Re-seal all roof penetrations and repair panel clips on west side of the building. Replace all loose screws, prime and paint curbs.

Capital Projects - Utilities Wastewater Systems

PROJECT COSTS	2021	2022	2023
<u>Capital - Wastewater Systems</u>			
Collection-Sanitary Sewer			
916 - Camrose Creek Sanitary Trunk cleanup	-	130,000	-
981 - Sanitary Repairs - various locations	175,000	100,000	-
Total: Collection-Sanitary Sewer	175,000	230,000	-
Treatment			
90 - Wastewater Treatment Plant Construction	12,550,000	15,740,000	11,860,000
Total: Treatment-Sanitary Sewer	12,550,000	15,740,000	11,860,000
Total: Wastewater - Capital	12,725,000	15,970,000	11,860,000

PROJECT FUNDING	2021	2022	2023
Grants - AMWWP	9,920,756	-	-
Offsite Levies - Sanitary	-	825,000	-
City Debenture - Offsite Levies	-	10,600,000	-
Sanitary Operating	175,000	230,000	-
Sanitary Reserves	2,629,244	4,315,000	11,860,000
Total Project Funding	12,725,000	15,970,000	11,860,000

PROJECT DESCRIPTIONS

Collection-Sanitary Sewer

Project 916 - Camrose Creek Sanitary Trunk cleanup - Follow up work related to the prior sanitary trunk sewer upgrade through Jubilee Park in 2014/2015. Scope includes overlay of 51A Street between 46 Avenue and 47 Avenue (i.e. overtop of alignment of new trunk sewer).

Project 981 - Sanitary Repairs - various locations - Based on results of 2017 and 2019 closed circuit television (CCTV) inspections of storm and sanitary pipes, a number of Priority 1 repairs were recommended at various locations throughout the City. Will fix as many as possible with City crews (may be billed to operating accounts), with remaining work to be completed by contractors.

Treatment

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. Detailed engineering design expected to be complete by end of December 2020 or early January 2021). Plan is to proceed with tendering in January 2021. Construction to commence in spring 2021, and to continue to middle / end of 2023. Current project cost is anticipated to be ~\$42.2M.

Note: In 2020, the City was successful in receiving AMWWP grant funding. The project is also utilizing \$11.425M of sanitary offsite levies. As there is only ~\$825K in offsite levy deferred revenues collected to date, the City will take out a debenture to front end the shortfall in offsite levies, to be repaid from future offsite levy deposits.

Capital Projects - Utilities Landfill

PROJECT COSTS	2021	2022
Capital - Utilities - Landfill		
Landfill - Capital		
1010 - Landfill Closure - to Cell 16 *	-	20,000
1020 - Landfill Clay Purchase **	-	-
1021 - Landfill Access / Drainage Improvements	50,000	150,000
1022 - Landfill Litter Fencing	20,000	-
1041 - Landfill Cell 23 Development	50,000	839,500
Total: Landfill	120,000	1,009,500

* Budget approval in 2022 for Project 1010 - Landfill Closure - to Cell 16 is for design only. Project will be reviewed as part of 2023 Budget deliberations with project proceeding as approved. 2023 Forecast currently includes \$3.6M construction project front ended with proposed funding from general infrastructure reserve.

PROJECT FUNDING	2021	2022
Reserve - Landfill	120,000	1,009,500
Total Project Funding	120,000	1,009,500

PROJECT DESCRIPTIONS

Landfill

** Project 1020 - Landfill Clay Purchase - Excavation of approximately 450,000 m3 of clay material from WWTP lagoon expansion, hauling and stockpile for future landfill projects (cell construction and final capping / closure). Project is budgeted at \$3.5M with expenses inventoried for future closure projects.

Project 1010 - Landfill Closure - to Cell 16 - Final contouring of former waste cells from start of landfill site (in early 1980s) up to Cell 16 (developed in 2010), placement of 600mm of clay, 350mm of subsoil and 200mm of topsoil for final cover.

Project 1021 - Landfill Access / Drainage Improvements - Construction of new access road around perimeter of existing / former landfill cells to access leachate monitoring wells and to inspect sides of landfill cells to look for damage / leachate outbreak. Project will also include various drainage improvements for the site. Drainage improvements will be based on yet to be finished Stormwater Management Plan. The plan is expected to be completed by end of this year. Expansion of the run-off pond is an expected result.

Project 1022 - Landfill Litter Fencing - Purchase / fabrication of additional portable and fixed litter fencing to help prevent garbage from blowing around on site (particularly around active dumping area) and potentially leaving the landfill property.

Project 1041 - Landfill Cell 23 Development - Ongoing cell construction at landfill is necessary to accommodate the municipal solid waste stream. Due to size of newer cells, as well as improvements in waste diversion programs, the frequency of the development of future landfill cells may be reduced.

Capital Projects - Utilities Recycling

PROJECT COSTS	2021	2022
<u>Capital - Utilities - Recycling & Waste Management</u>		
Recycling - Capital		
1016 - Processed Paper/Cardboard Storage Shed	-	35,000
Total: Recycling Capital	-	35,000

PROJECT FUNDING	2021	2022
Reserve - Recycling	-	35,000
Total Project Funding	-	35,000

PROJECT DESCRIPTIONS

Recycling

Project 1016 - Processed Paper/Cardboard Storage Shed - Construction of storage building (pole shed or equivalent) for storage of processed paper/cardboard at the Recycle Depot. Intended to keep baled material out of the elements until transported to markets, in order to maintain resale value of material.