2019 Proposed Capital Budget

Department

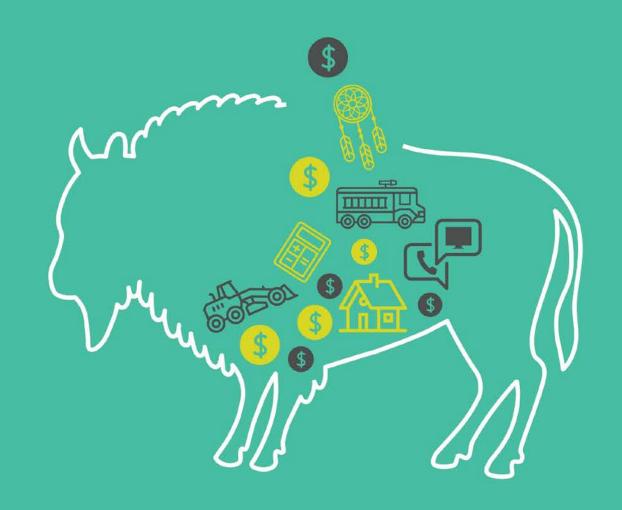
Engineering

Presenter

Matthew Hough, Director

Date

November 28 – December 1, 2018





2019 Capital Budget Summary – Resourced (Funded)

Major Category	2018 & Prior Budget	2019 Proposed Budget	2020-2023 Plan	Total Budget
Public Facilities	207,397,037	120,270,000	363,727,592	691,394,629
Recreation and Culture	-	5,355,000	7,100,000	12,455,000
Transportation	96,701,567	32,119,000	166,950,000	295,770,567
TOTAL	\$304,098,604	\$157,744,000	\$537,777,592	\$999,620,196

Actual as of Sept 30, 2018
75,915,989
-
59,798,544
\$135,714,533



Engineering

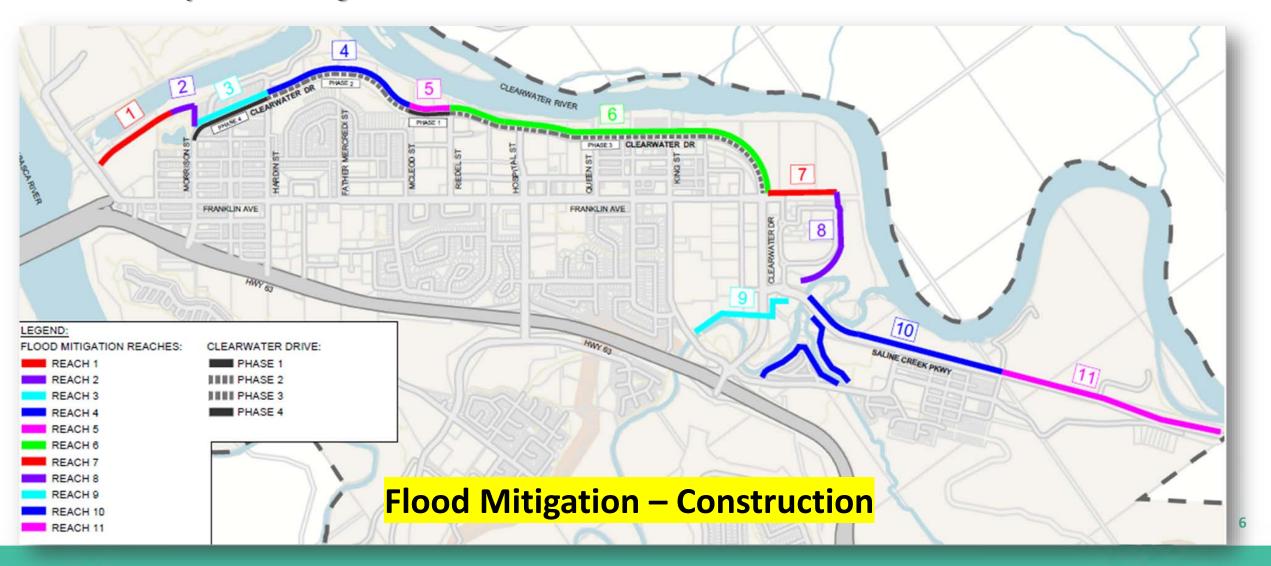
2019 Multi Year Capital Projects





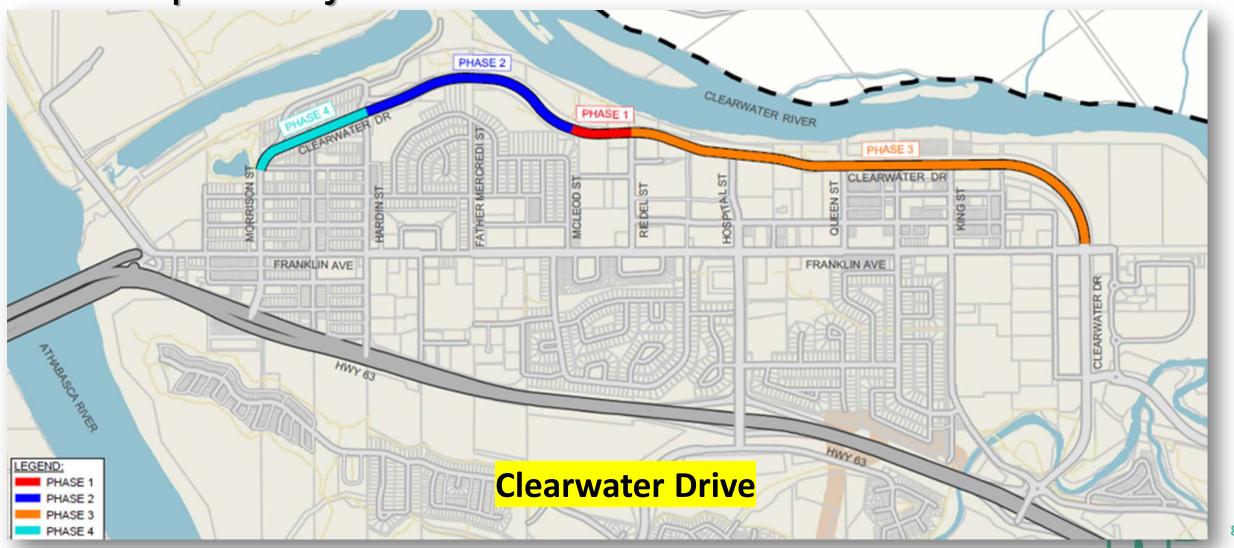
Project Name:	Flood Mitigation – Design					
Reference No:	7	Sponsoring D	epartment:	Engineer	ing	
Description:	This project is to provide flood mitigation for the Downtown, Waterways, and Ptarmigan Court areas for both ice-jam and open water related flooding during 1:100 year events.					
Major Outcomes:	Providing flood protection to citizens, properties and infrastructure.					
Multi Year Proje	ct Actual Spe	nt as at Septer	mber 30, 2018:)18: \$552,908		
2018 & Prior Bud	get 2019 Bud	lget Request	2020 – 2023	Plan	Total Budget All Years	
\$552,908	\$ \$2	2,500,000	\$6,747,	,092	\$9,800,000	

Project Name:	Flood Mitigation – Construction					
Reference No:	9	Sponsoring D	epartment:	Engineer	ing	
Description:	This project is to provide flood mitigation for the Downtown, Waterways, and Ptarmigan Court areas for both ice-jam and open water related flooding during 1:100 year events.					
Major Outcomes:	Providing flood protection to citizens, properties and infrastructure.					
Multi Year Proje	Year Project Actual Spent as at September 30, 2018:			\$3,078,368		
2018 & Prior Bud	get 2019 Bu	dget Request	2020 – 2023	Plan	Total Budget All Years	
\$18,094,129)	\$0	\$125,200,	,000	\$143,294,129	





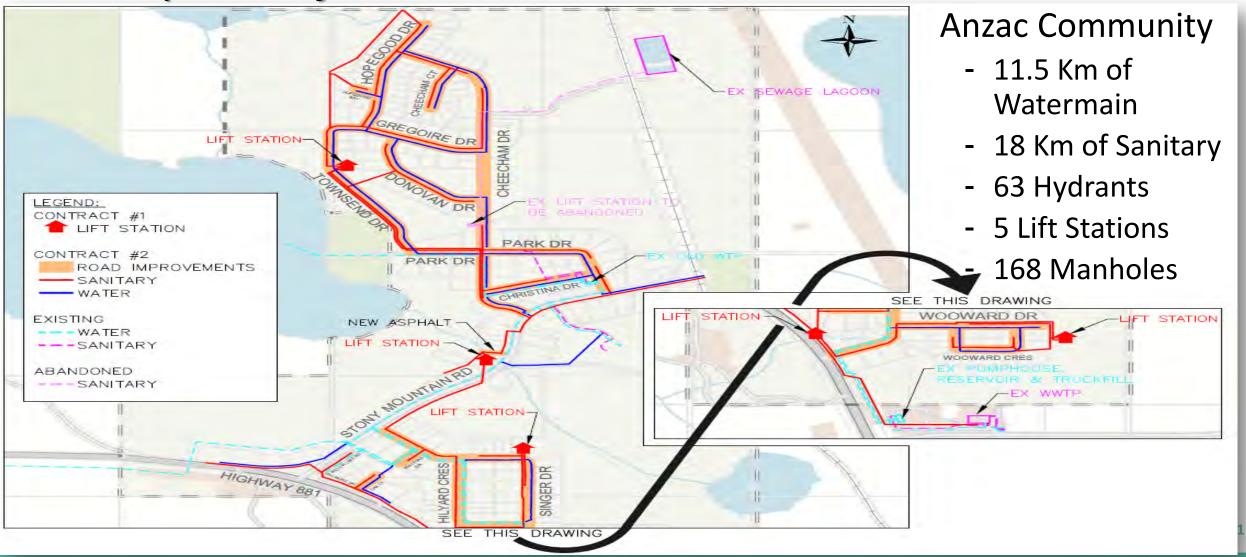
Project Name:	Clearwater Drive (Previously Prairie Loop Blvd – PLB)							
Reference No:	10		Sponsoring D	epartment:	Engineering			
Description:	conn	Clearwater Drive will be constructed in phases as a four lane divided road connecting the north-east end near the bend to the west-end at Morrison Street.						
Major Outcomes:	Providing alternative route to Franklin Avenue.							
Multi Year Proje	ct Actual Spent as at September 30, 2018:				\$59,798,544			
2018 & Prior Bud	2018 & Prior Budget 20		get Request	2020 – 2023	3 Plan	Total Budget All Years		
\$96,701,567	\$67 \$0 \$55,000,000 \$151,701,5				\$151,701,567			



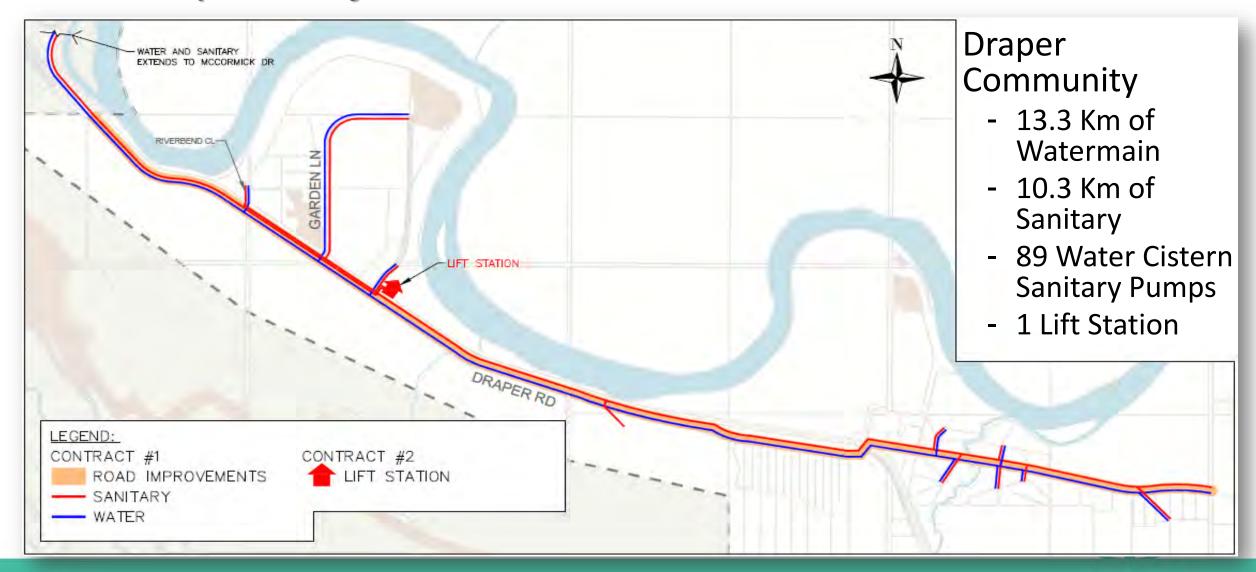


Project Name:	Rural Infrastructure Rehabilitation 2015-2017 – Construction							
Reference No:	11	Sponsoring D	epartment:	Engineer	gineering			
Description:	This project is a continuation of the multi year program initiated in 2013 to address road-related infrastructure upgrades in the southern rural hamlets.							
Major Outcomes:	Upgrade roads to meet Municipal Servicing Standards.							
Multi Year Proje	ct Actual Sp	ent as at Septe	mber 30, 2018:		\$18,108,776			
2018 & Prior Bud	get 2019 Bu	dget Request	2020 – 2023	Plan	Total Budget All Years			
\$55,200,000	\$3	9,000,000	\$15,800,	,000	\$110,000,000			

Project Name:	Rural Water & Sewer Servicing – Construction							
Reference No:	23	Sponsoring	Department:	Enginee	eering			
Description:	The project includes the construction of water and sewer services for six hamlets: Gregoire Lake Estates, Anzac, Draper, Saprae Creek, Conklin and Janvier.							
Major Outcomes:	Providing piped water and sewer services to the six southern rural hamlets.							
Multi Year Proje	ct A	ctual Spent as at Sep	tember 30, 2018:		\$46,124,520			
2018 & Prior Bud	2018 & Prior Budget 2019		t 2020 – 2023	3 Plan	Total Budget All Years			
\$94,100,000)	\$51,000,000	\$74,900	,000	\$220,000,000			















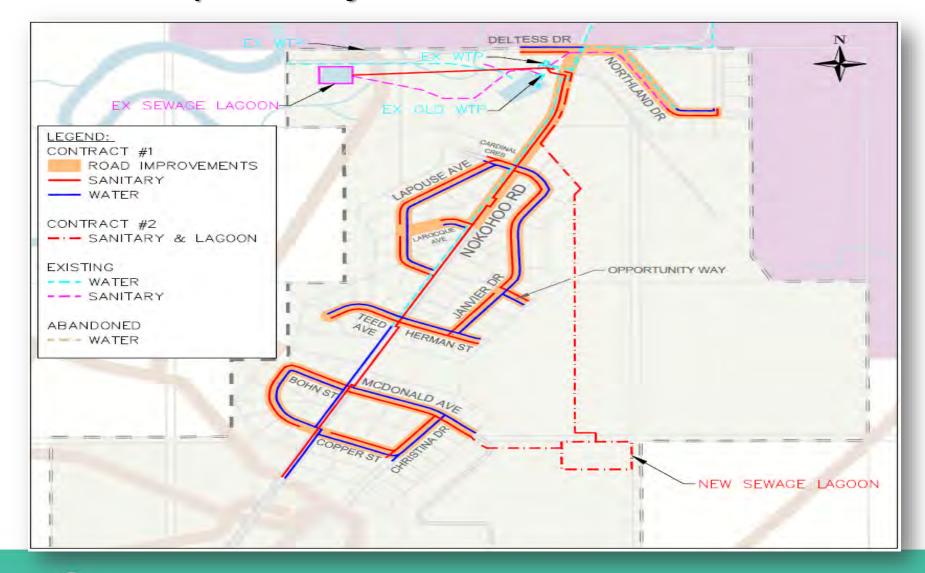
Gregoire Lake Estates

- 2 Km of Watermain
- 2 Km of Sanitary
- 13 Km Forcemain
- 11 Hydrants
- 1 Pumphouse & Reservoir
- 1 Lift station
- 24 Manholes





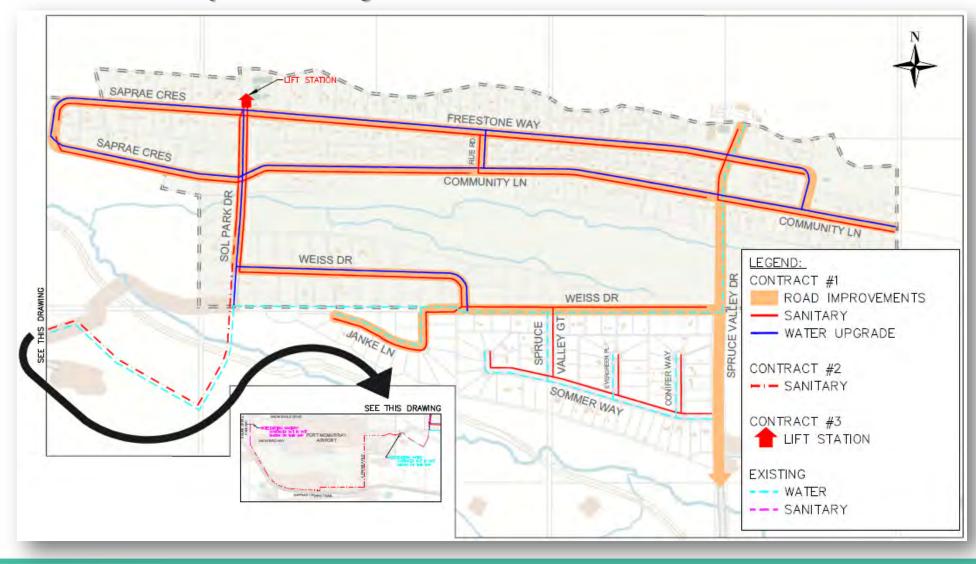




Janvier Community

- 6 Km of Watermain
- 10 Km of Sanitary
- 117 Water Cistern
 Sanitary Pumps
- Lagoon





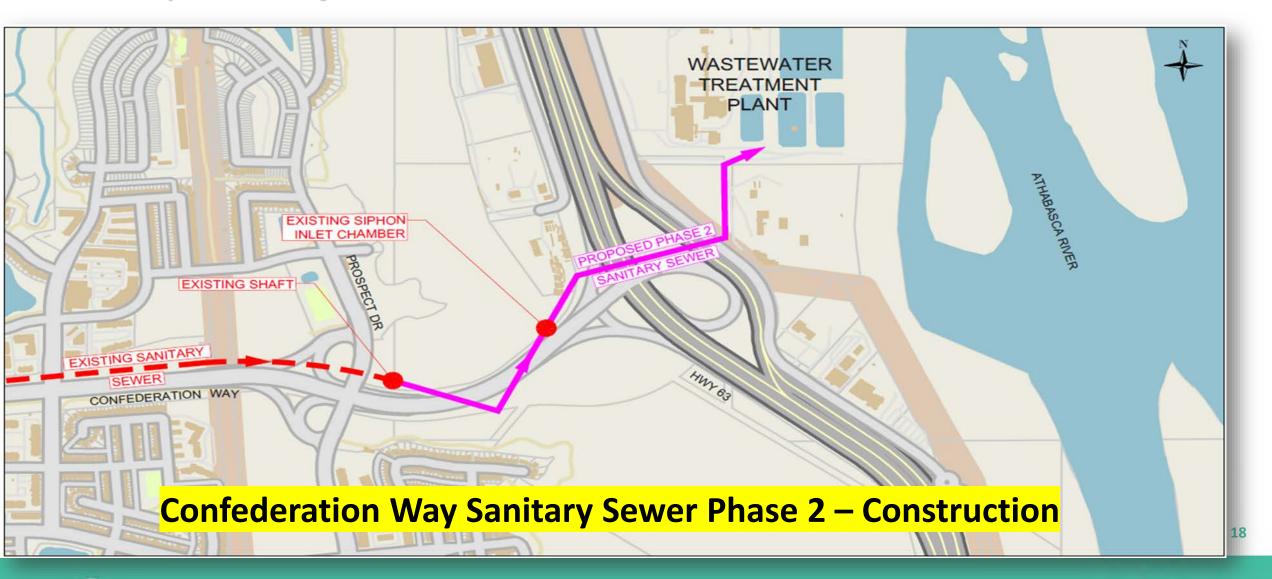
Saprae Creek Community

- 10 KM of Watermain
- 15 KM of Sanitary
- 1 Lift Station
- 61 Hydrants



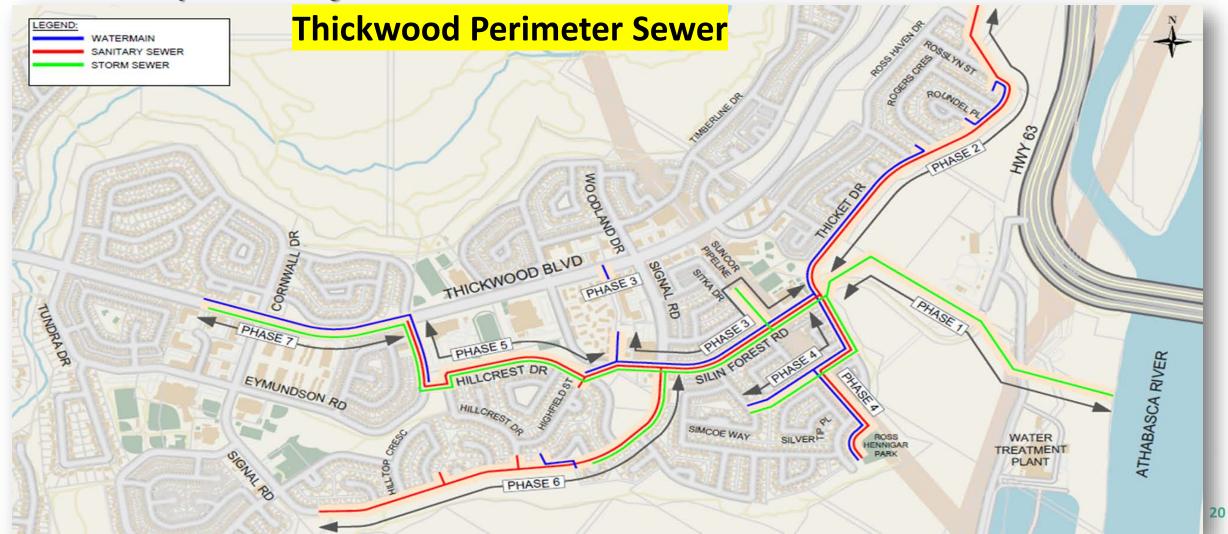


Project Name:	Confederation Way Sanitary Sewer Phase 2 - Construction						
Reference No:	31	Sponsoring D	epartment:	Engineer	ring		
Description:	This project is for the construction of a sanitary sewer line along Confederation Way between the Eagle Ridge Overpass and the Wastewater Treatment Plant. The purpose of this project is to improve the capacity of Sanitary Sewer Systems.						
Major Outcomes:	·	To provide capacity for the Timberlea sewer system and to meet current and future flows.					
Multi Year Proje	ct Actu	al Spent as at Septe	mber 30, 2018:		\$7,856,279		
2018 & Prior Bud	get 201	9 Budget Request	2020 – 2023	Plan	Total Budget All Years		
\$22,700,000					\$37,500,000		





Project Name:	Thickwood Perimeter Sewer – Construction						
Reference No:	39	Sponsoring D	epartment:	Engineer	ing		
Description:	The project is for the infrastructure improvement of water, sanitary and storm systems in the Thickwood neighbourhood.						
Major Outcomes:	Improving existing infrastructure.						
Multi Year Proje	ct	Actual Spent as at Septer	mber 30, 2018:		\$195,139		
2018 & Prior Bud	2018 & Prior Budget 2019 B		2020 – 2023 Plan		Total Budget All Years		
\$12,500,000	\$12,500,000 \$		\$41,555,500		\$61,555,500		





Project Name:	Storm/Sewer/Water Upgrades in Mackenzie/Beacon Hill – Construction						
Reference No:	47	Sponsoring D	epartment:	Engineer	ring		
Description:	storm syste	The project includes the construction to upgrade the water, sanitary and storm systems in the Mackenzie neighbourhood. It also includes the improvement of the water supply line from Beacon Hill Reservoir to Mackenzie Reservoir.					
Major Outcomes:	Improving	Improving existing infrastructure.					
Multi Year Proje	ect Actua	Spent as at Septer	mber 30, 2018:		\$0		
2018 & Prior Bud	lget 2019	Budget Request	2020 – 2023	Plan	Total Budget All Years		
\$3,000,000		\$4,000,000	\$43,000	,000	\$50,000,000		





Project Name:	Conklin Sewage Lagoon – Design and Construction						
Reference No:	56	Sponsoring D	epartment:	Engineer	ing		
Description:	This project is tin the area.	This project is to expand the existing Conklin lagoon to meet residential needs n the area.					
Major Outcomes:	Maintains servi	Maintains service level.					
Multi Year Proje	ct Actual Spe	ent as at Septe	mber 30, 2018:		\$0		
2018 & Prior Bud	get 2019 Bud	dget Request	2020 – 2023	3 Plan	Total Budget All Years		
\$750,000	\$4	4,000,000	\$11,000	,000	\$15,750,000		





Project Name:	Fort Chipewyan Sewer Services Extension						
Reference No:	149	Sponsoring D	epartment:	Engineer	ing		
Description:	The pr	he project is for the installation of a sanitary sewer line on Wylie Avenue.					
Major Outcomes:	To provide sanitary sewer services along Wylie Avenue.						
Multi Year Proje	ct A	ctual Spent as at Septer	mber 30, 2018:		\$0		
2018 & Prior Bud	get	2019 Budget Request	2020 – 202 3	Plan	Total Budget All Years		
\$500,000		\$500,000		\$0	\$1,000,000		





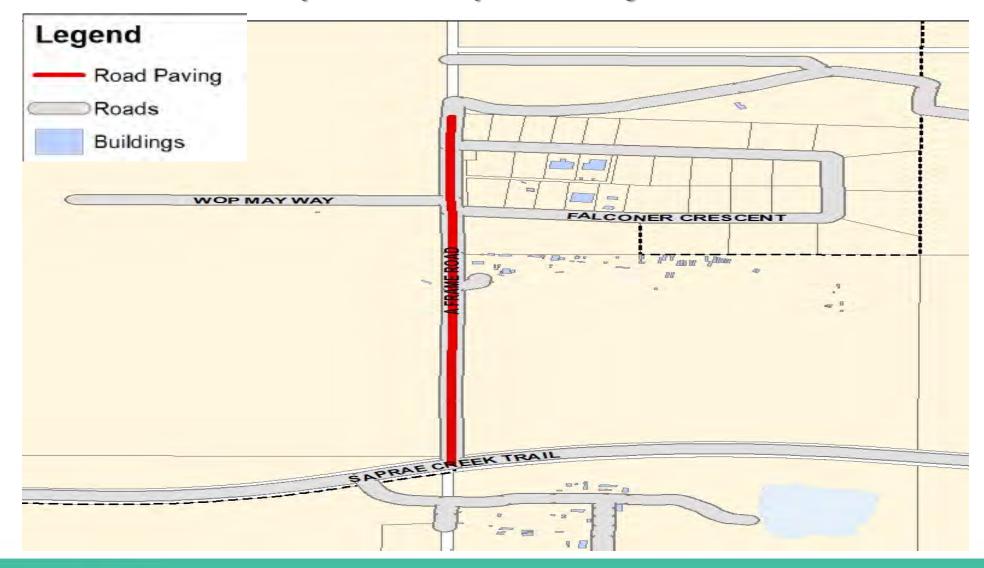
2019 New Proposed Capital Projects





2019 New Proposed Capital Project

Project Name:	A Frame Road Paving, Lift Station and Sanitary Forcemain Installation				
Reference No:	151	Sponsoring I	Department:	Engineer	ing
Description:	The scope of this project is to pave A-Frame road and install the sanitary lift station and sanitary forcemain that will serve 65 hectares of industrial land east of the airport.				
Major Outcomes:	Municipality will service the industrial land east of the airport.				
Multi Year Project		Actual Spent as at September 30, 2018:			\$ 0
2018 & Prior Bud	get	2019 Budget Request	2020 – 2023	3 Plan	Total Budget All Years
\$ 0		\$ 2,000,000	\$ 6,000	,000	\$ 8,000,000



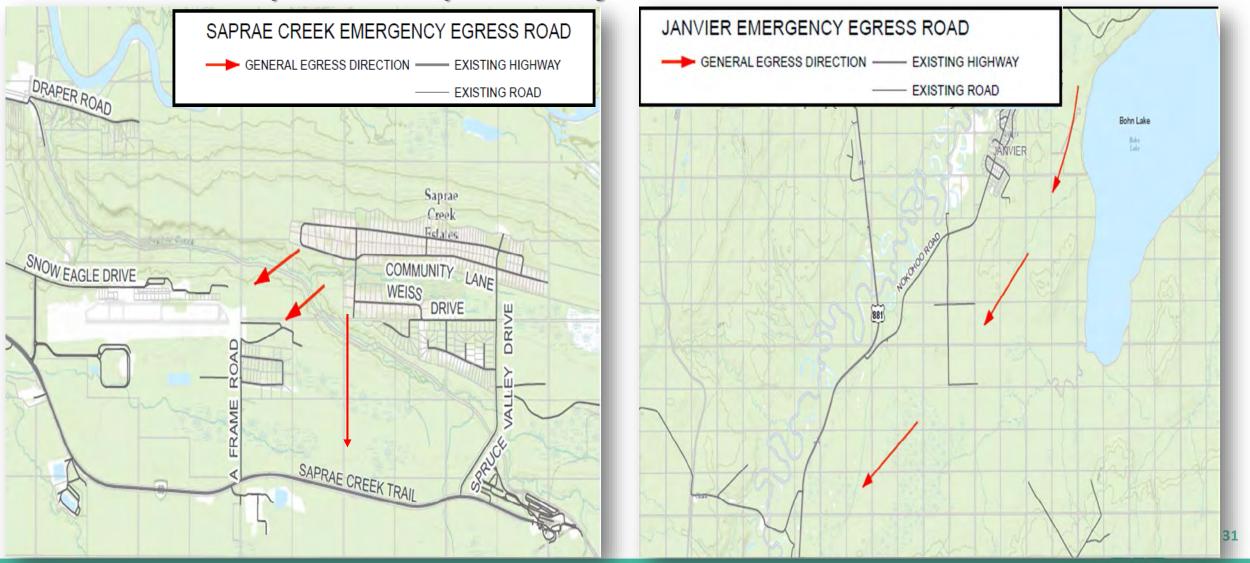
A Frame Paving, Lift Station and Forcemain -Construction



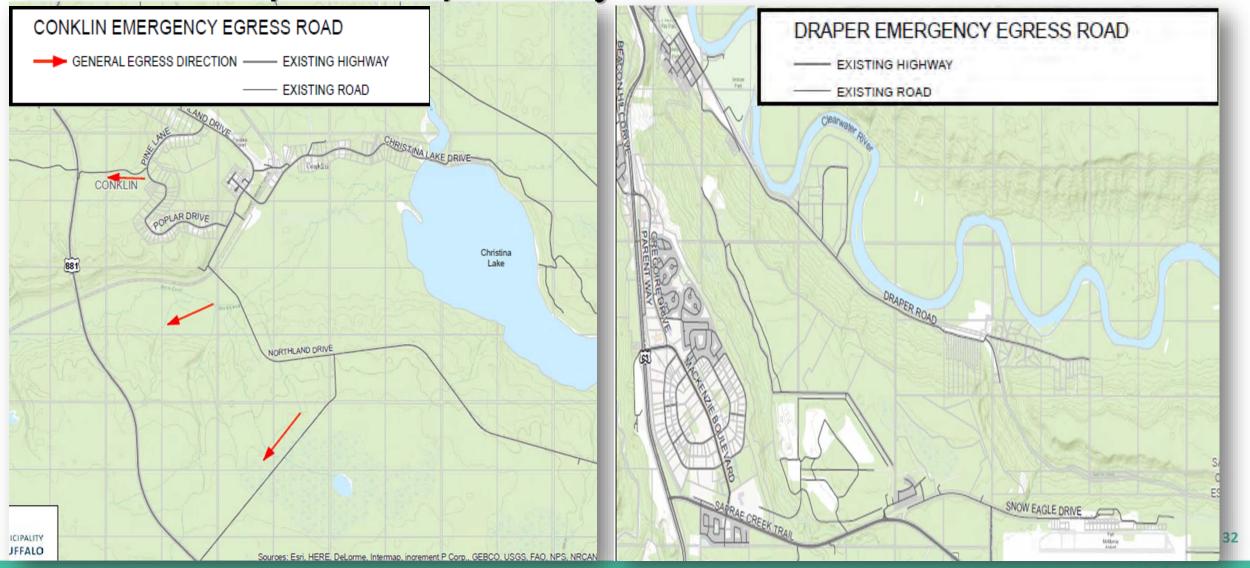


2019 New Proposed Capital Project

Project Name:	Rural Egress Road Design						
Reference No:	152		Sponsoring D	epartment:	Engineering		
Description:	This project consists of detail design of Egress Roads in the rural communities of Saprae Creek, Janvier, Conklin, Draper, Anzac and Fort McKay.						
Major Outcomes:	The egress roads will provide alternative routes during emergencies.						
Multi Year Project		Actual Spent as at September 30, 2018:			\$0		
2018 & Prior Budget		2019 Bud	get Request	2020 – 2023	B Plan	Total Budget All Years	
\$0			\$900,000	\$600	,000	\$1,500,000	

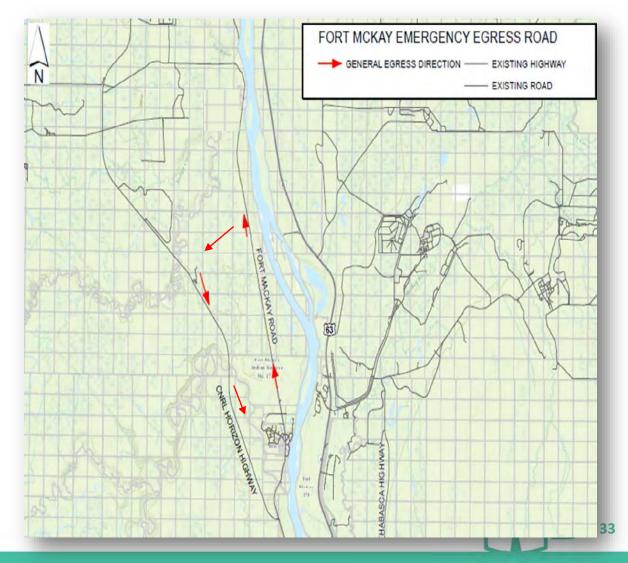








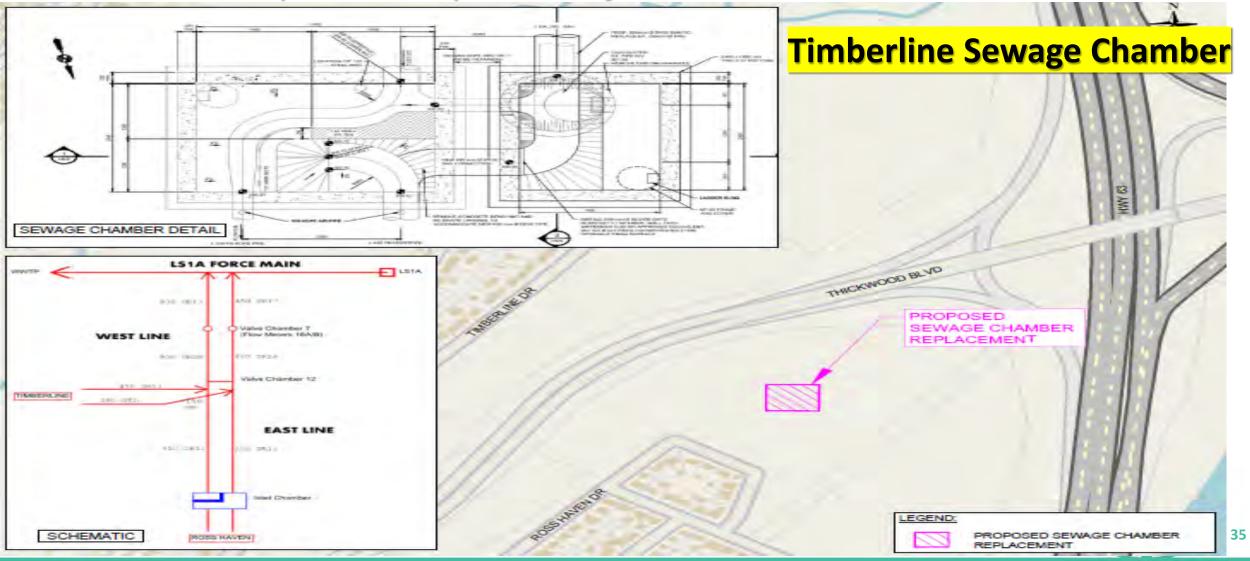






2019 New Proposed Capital Project

Project Name:	Timberline Sewage Chamber					
Reference No:	155	Sponsoring D	epartment:	Engineer	ing	
Description:	The project consists of replacing the Timberline sewage chamber to facilitate routing of sewage flow to the Thickwood outfall. The need for the project was initially identified by operations and confirmed by the design phase of the Thickwood Perimeter sewer line.					
Major Outcomes:	Improved sewage flow routing and distribution during heavy rain events.					
Multi Year Proje	ect Actual Spe	Actual Spent as at September 30, 2018:			\$0	
2018 & Prior Bud	lget 2019 Bud	dget Request	2020 – 2023	Plan	Total Budget All Years	
\$0)	\$250,000	\$75	,000	\$325,000	



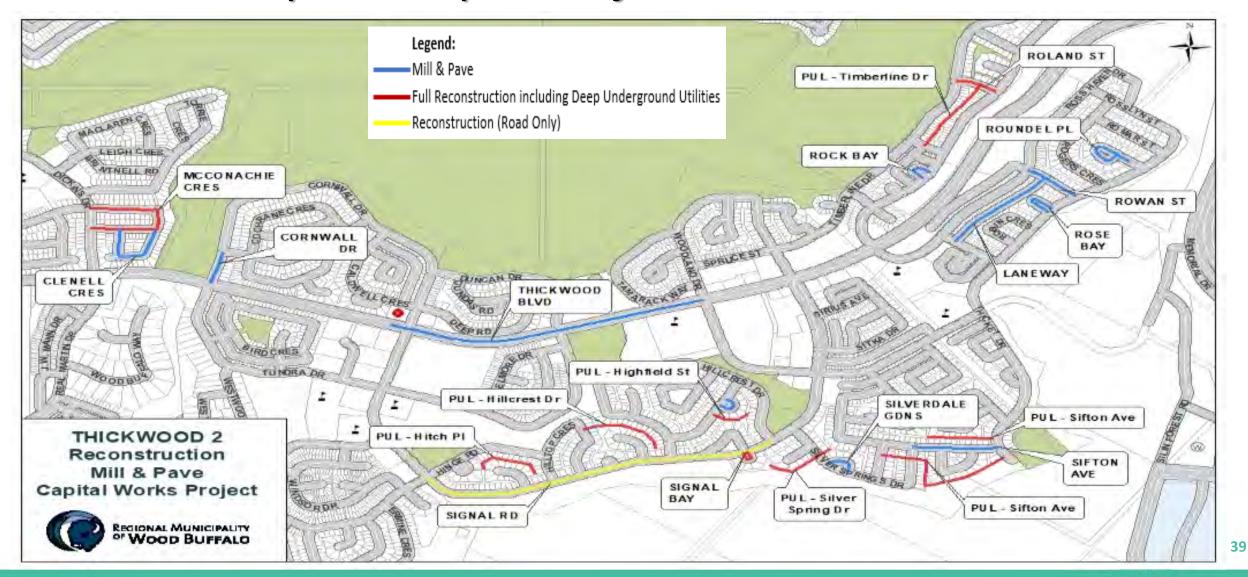


2019 New Proposed Capital Project

Project Name:	Urban Infrastructure Rehabilitation 2019 – 2021 – Design						
Reference No:	156	Sponsoring	Department:	Enginee	ring		
Description:	The preliminary engineering will create a program for the next three years by prioritizing the critical need of the assets and the Municipality's investment plan to protect its assets.						
Major Outcomes:	service li	The program will prioritize the critical needs of the assets and extend the service life of these assets. Maintaining the infrastructure with acceptable level of service.					
Multi Year Proje	ect Acti	Actual Spent as at September 30, 2018:			\$0		
2018 & Prior Buc	lget 20	19 Budget Request	2020 – 2023	3 Plan	Total Budget All Years		
\$()	\$1,250,000	\$2,250	,000	\$3,500,000		

Project Name:	Urban Infrast	Urban Infrastructure Rehabilitation Construction – 2019					
Reference No:	159	Sponsoring D	epartment:	Engineeri	ng		
Description:	surfaces and	The program will carry out the rehabilitation and construction of road surfaces and underground infrastructure that was prioritized in the preliminary engineering (predesign) report and detailed design.					
Major Outcomes:	Keeping these	Keeping these assets in good operable condition.					
Multi Year Proje	ct Actual Spent as at September 30, 2018: \$0						
2018 & Prior Bud	or Budget 2019 Budget Request 2020 – 2023 Plan Total Budget A						
\$0	\$2	17,200,000	\$10,000	,000	\$27,200,000		

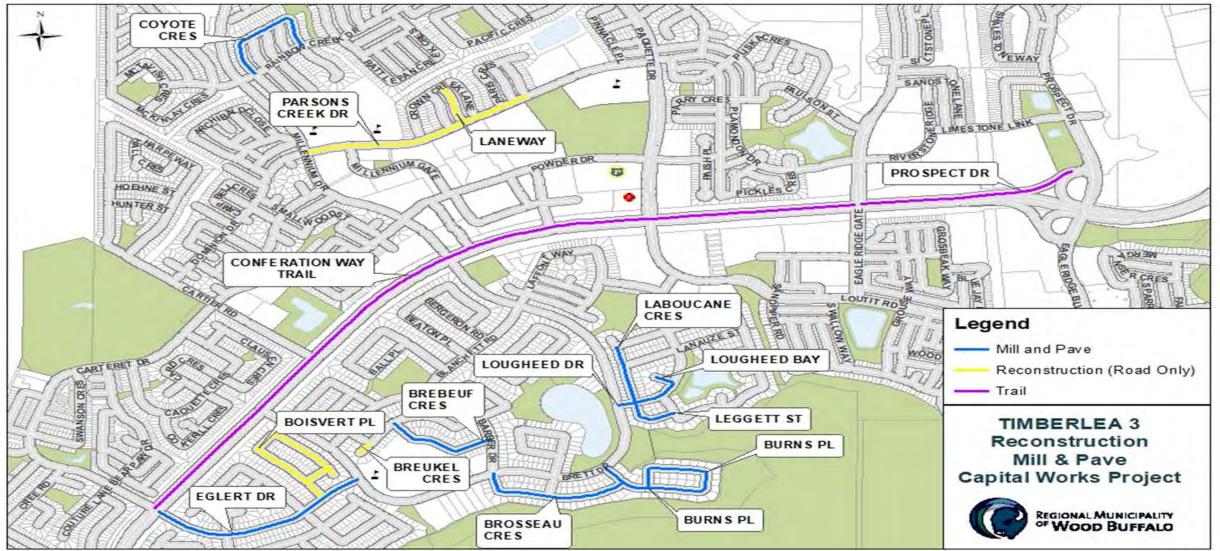
Project Name:	Urban Infrastructure Rehabilitation Street Improvement 2019						
Reference No:	160 Sponsoring Department: Engineering						
Description:	This project includes the surface improvement of roads, sidewalks, curb and gutters, manhole, catch basins, localized ponding, etc. in the Urban Service Area.						
Major Outcomes:	Maintaining th	ne infrastructu	ire with accep	table lev	el of service.		
Multi Year Proje	ct Actual Spent as at September 30, 2018: \$0						
2018 & Prior Bud	get 2019 Buc	get 2019 Budget Request 2020 – 2023 Plan Total Budget All Yea					
\$0	\$10	0,000,000	\$5,000,	,000	\$15,000,000		



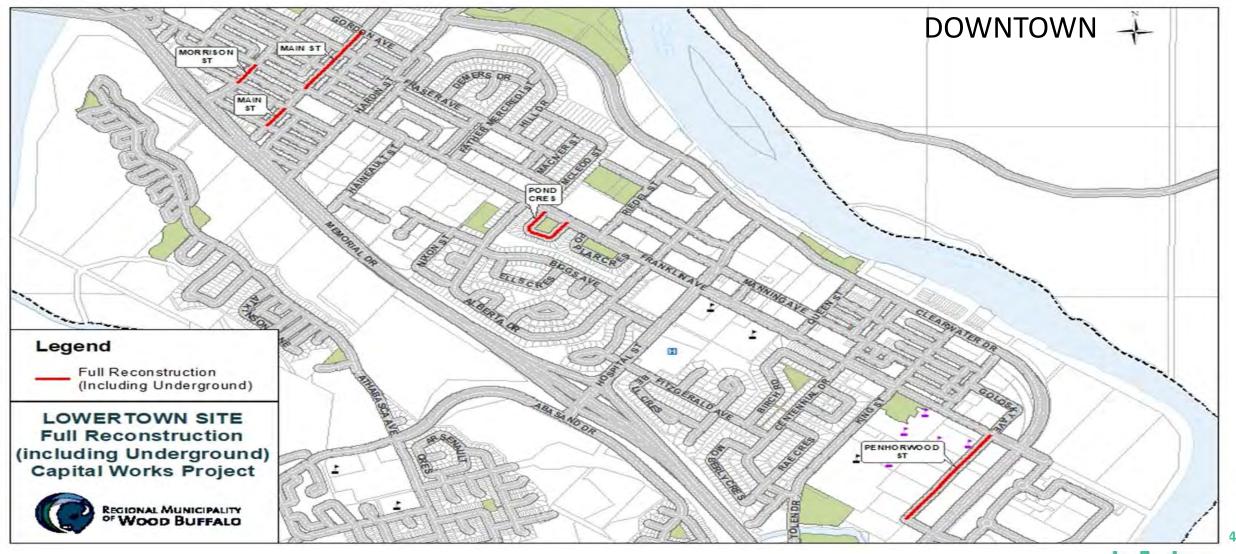




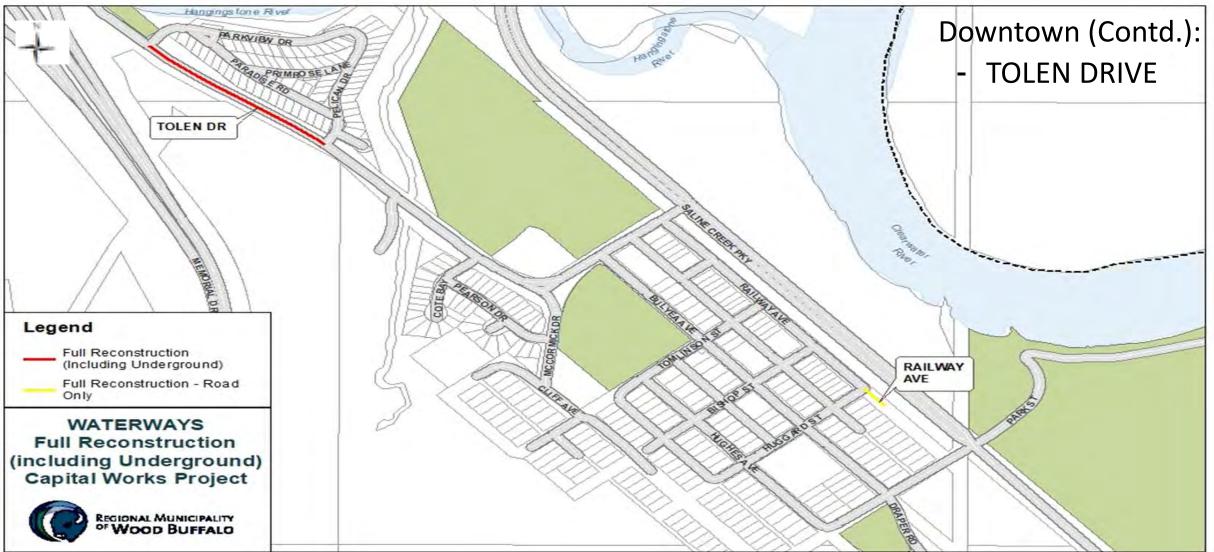








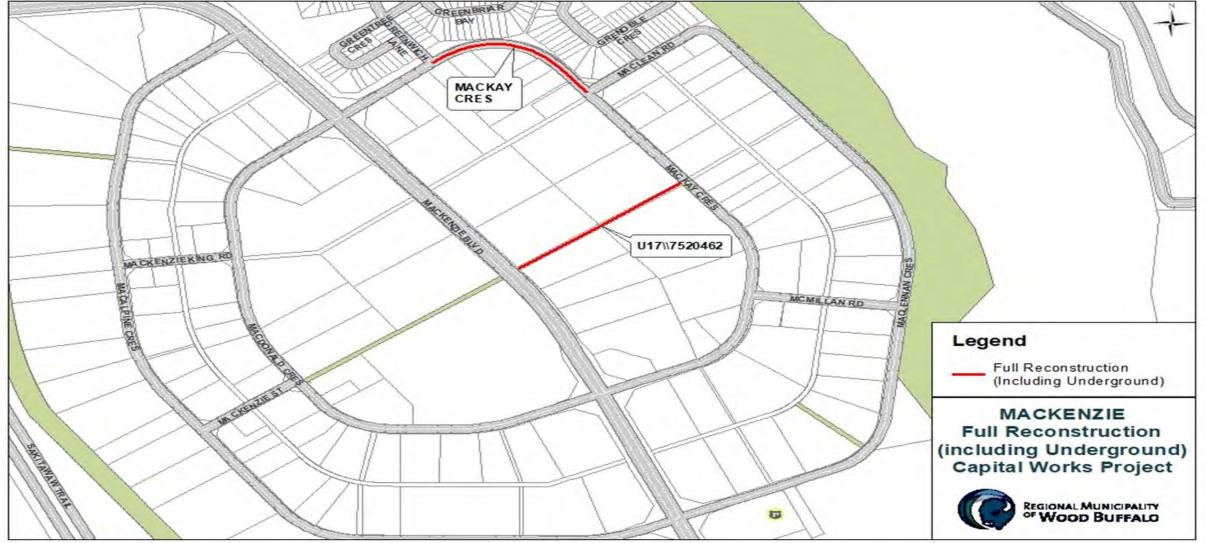












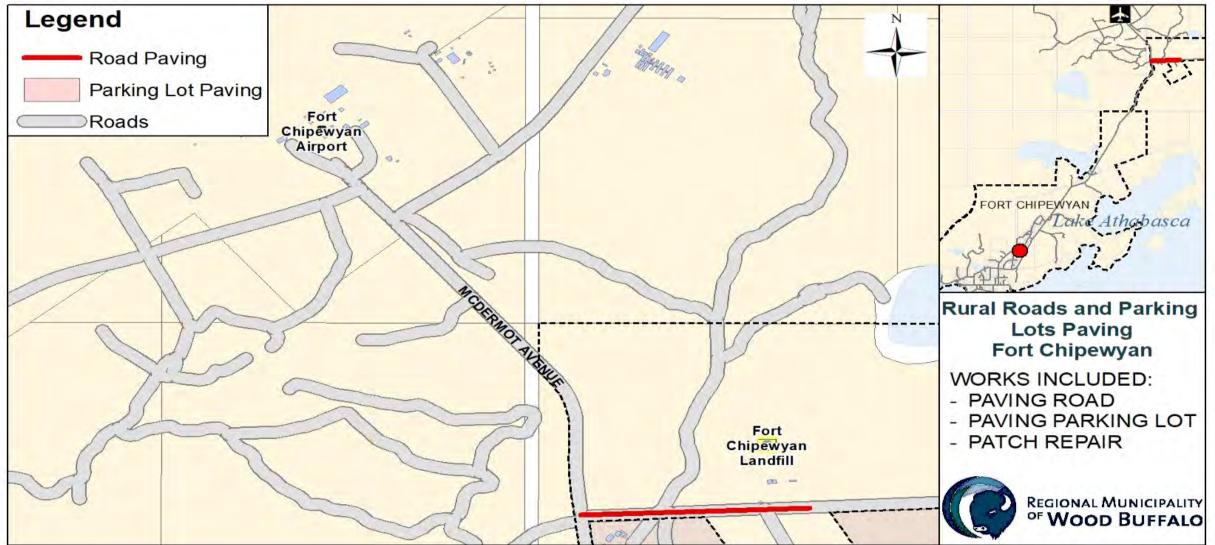


Project Name:	Rural Roads and Parking Lots Paving – Fort Chipewyan						
Reference No:	161	Sponsoring Department: Engineering					
Description:	Swimming Pool	This project includes the paving of Airport Road to Landfill Road and swimming Pool parking lot. This will also include an extension of Airport erminal parking lot and patch repair work.					
Major Outcomes:	•	Keep infrastructure in good and reliable condition so that it meets the intended purpose.					
Multi Year Proje	ct Actual Spent as at September 30, 2018: \$ 0						
2018 & Prior Bud	dget 2019 Budget Request 2020 – 2023 Plan Total Budget All						
Ç	\$ \$1,000,000 \$4,100,000 \$5,100,						



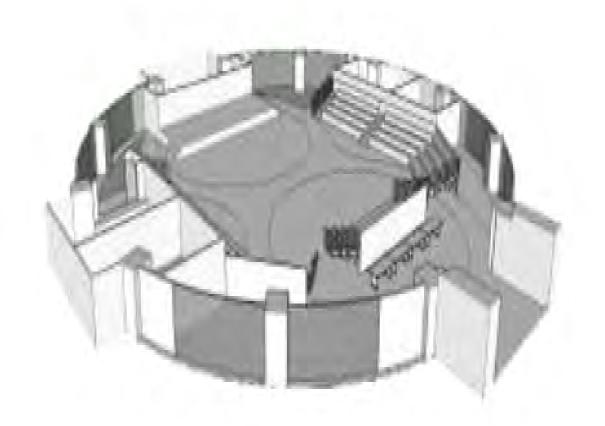


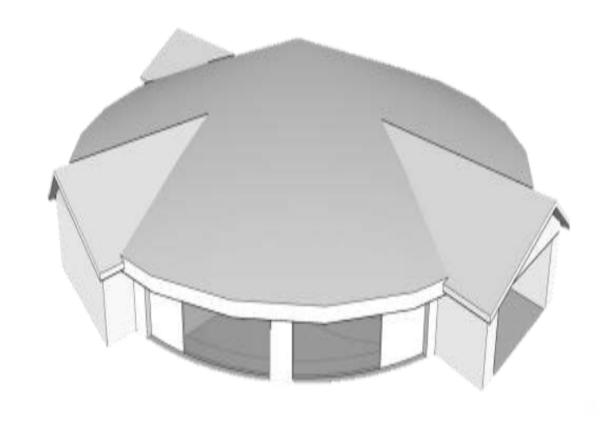
(Contd.)





Project Name:	Fort McKay Pavilion – Design & Construction						
Reference No:	183	Sponsoring Department: Engineering					
Description:	develop a culti	This project is to address the interest from the Fort McKay Community to develop a cultural pavilion. This would also be an opportunity to interested individuals and groups from Fort McMurray and the Regional Municipality of Wood Buffalo to use the pavilion.					
Major Outcomes:	Enhance the qu	Enhance the quality of life					
Multi Year Proje	ct Actual Spent as at September 30, 2018: \$ 0						
2018 & Prior Buc	& Prior Budget 2019 Budget Request 2020 – 2023 Plan Total Budget All Yo						
\$ \$2,100,000 \$4,100,000 \$6,200,00							





Basic outline of Pavilion



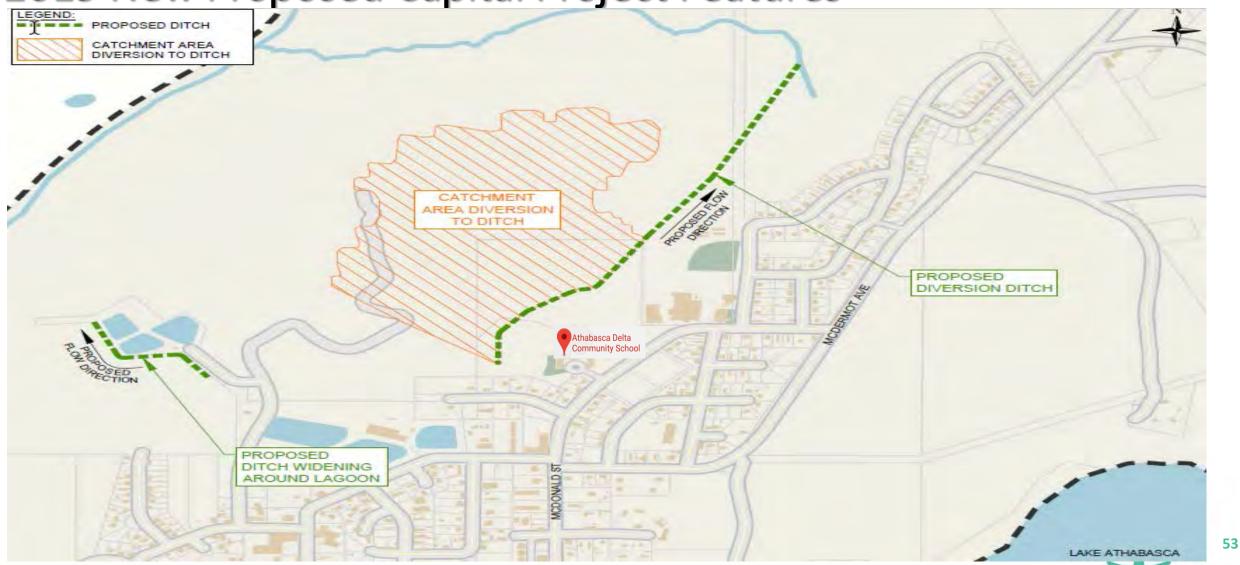




Project Name:	Sapı	Saprae Creek Community Hall – Construction					
Reference No:	184		Sponsoring D	epartment:	Engineer	ing	
Description:	This	This project is for a Community Hall in the community of Saprae Creek.					
Major Outcomes:	Enha	nce the qua	ality of life				
Multi Year Proje	ct Actual Spent as at September 30, 2018: \$0						
2018 & Prior Bud	get	2019 Bud	get Request	2020 – 2023	B Plan	Total Budget All Years	
\$0	\$0 \$,000,000	\$3,000	,000	\$5,000,000	

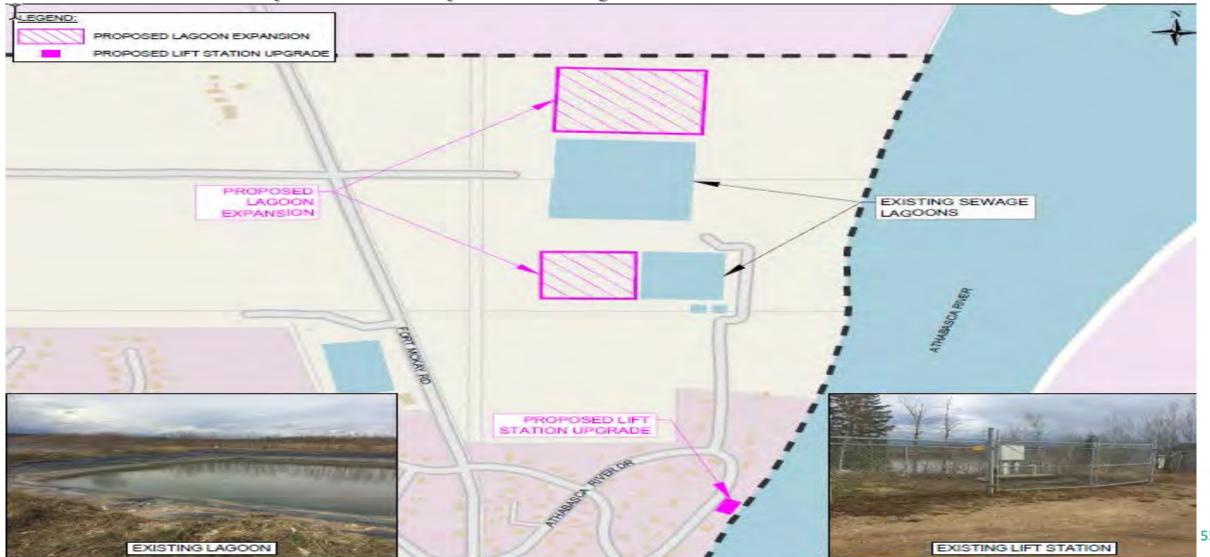
Project Name:		Fort Chipewyan Surface Drainage Improvements – Preliminary Engineering & Design					
Reference No:	163		Sponsoring D	epartment:	Engineer	ing	
Description:	behii	This project consists of building a diversion ditch along the toe of the slope behind the school, ball diamond and west of Henry Drive. This will improve drainage and redirect the flow toward the Slave River basin.					
Major Outcomes:	· •	mproved drainage conditions and decreased infiltration into sanitary sewers due to high groundwater table and runoff.					
Single Year Proje	ect	ect Actual Spent as at September 30, 2018: \$0					
2018 & Prior Bud	lget	get 2019 Budget Request 2020 – 2023 Plan Total Budget All Yea					
\$0)	\$600,000 \$0 \$600,000					

52



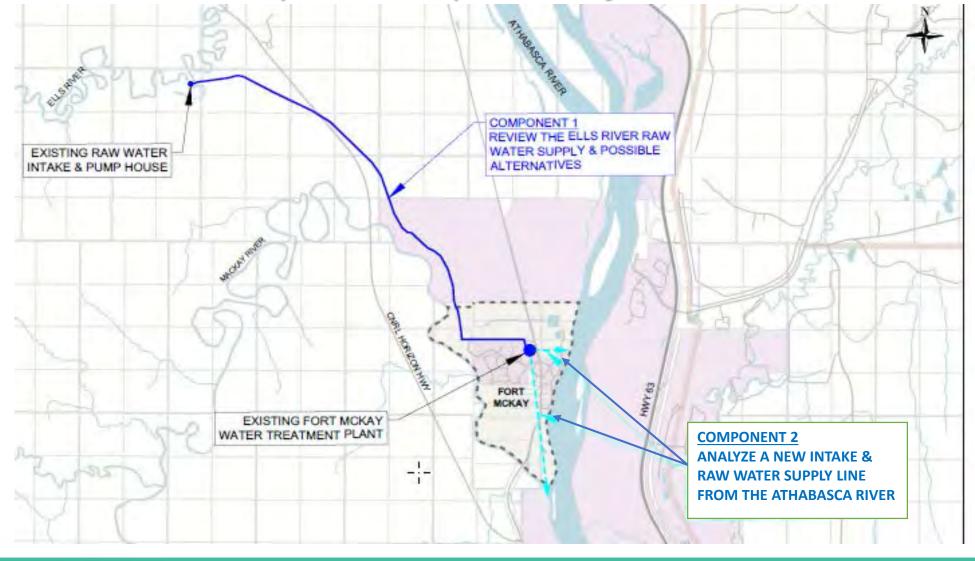


Project Name:		Fort McKay Sewage Lagoon and Lift Stations Upgrade – Preliminary Engineering					
Reference No:	164		Sponsoring D	epartment:	Enginee	ring	
Description:	and r	This project is for preliminary engineering for the sewage lagoon expansion and required upgrades for the existing lift station and a site selection for the proposed south lift station.					
Major Outcomes:		Selected best treatment practices to maintain environmental compliance in a cost-effective manner.					
Single Year Proje	ect Actual Spent as at September 30, 2018: \$0						
2018 & Prior Bud	lget	get 2019 Budget Request 2020 – 2023 Plan Total Budget All Years					
\$0)	\$250,000 \$0 \$250,000					





Project Name:	Fort McKay Water Supply Infrastructure Rehabilitation – Preliminary Engineering						
Reference No:	165	Sponsoring D	epartment:	Engineer	ring		
Description:	to the hamlet o	The project will explore and compare alternative options for the water supply to the hamlet of Fort McKay.					
Major Outcomes:	Identified wate	r supply option	n for the hamlet	of Fort N	/IcKay.		
Single Year Proje	ect Actual Spe	ct Actual Spent as at September 30, 2018: \$0					
2018 & Prior Bud	get 2019 Bud	get 2019 Budget Request 2020 – 2023 Plan Total Budget All Years					
\$0)	\$300,000 \$0 \$300,000					



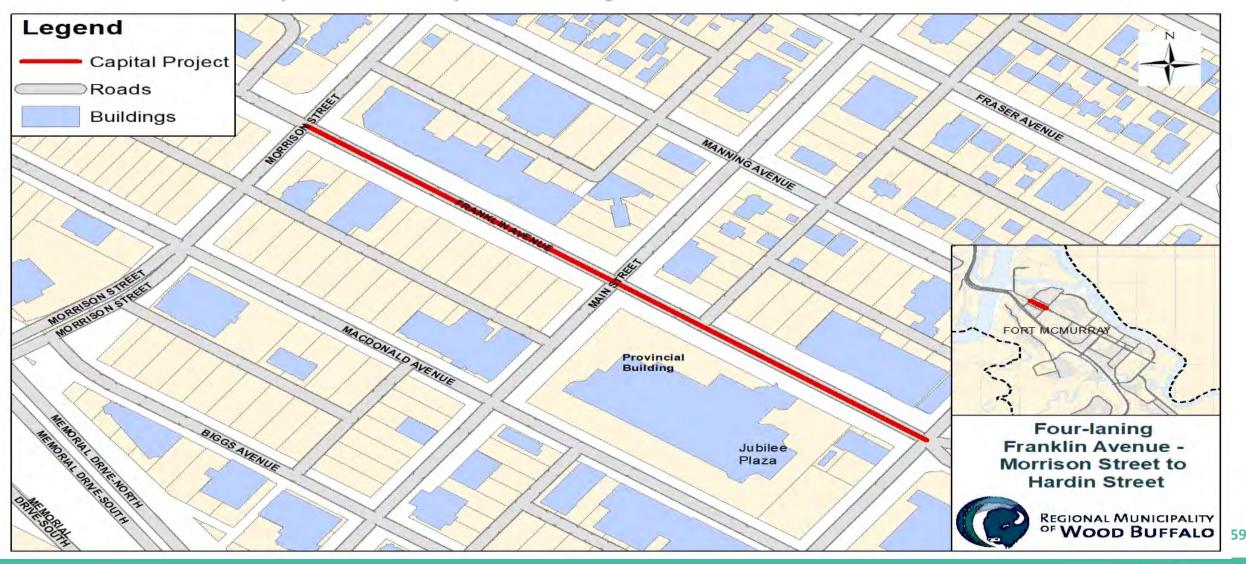
Fort McKay
Water Supply
Infrastructure
Rehabilitation
– Preliminary
Engineering





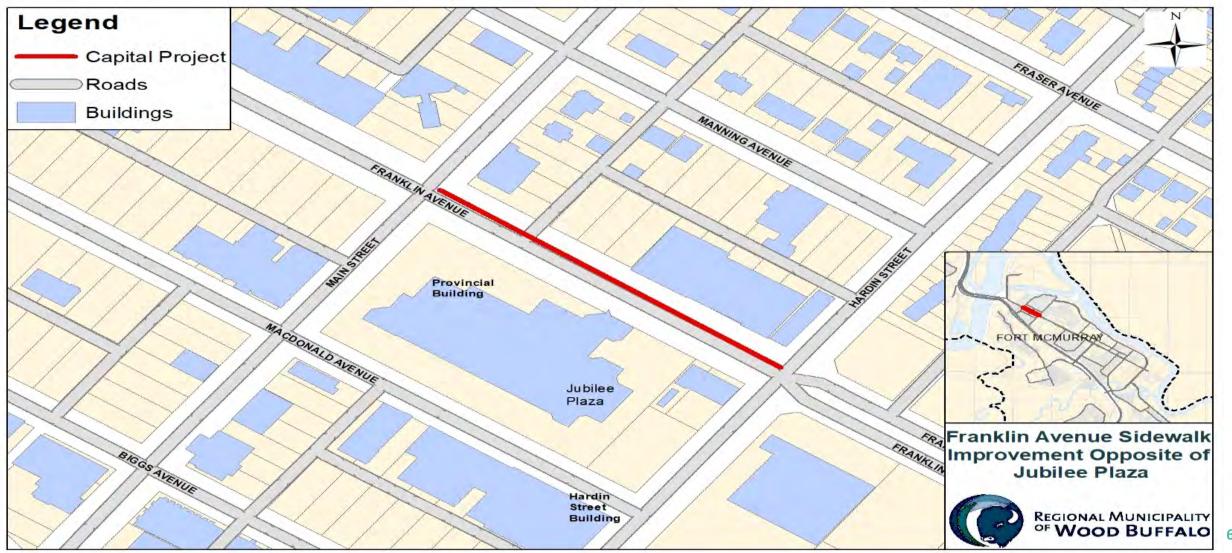
Project Name:	Fou	Four-laning Franklin Avenue - Morrison Street to Hardin Street					
Reference No:	167	167 Sponsoring Department: Engineering					
Description:	and	The scope of this project is to convert Franklin Avenue between Hardin Street and Morrison Street to a four-lane roadway and the existing angular parking to parallel parking.					
Major Outcomes:	west	The new through lanes would align with the existing eastbound and westbound lanes on Franklin Avenue. The additional two lanes will increase the Franklin Avenue traffic capacity.					
Single Year Proj	Project Actual Spent as at September 30, 2018: \$ 0						
2018 & Prior Bud	Budget 2019 Budget Request			2020 – 202	3 Plan	Total Budget All Years	
\$()						

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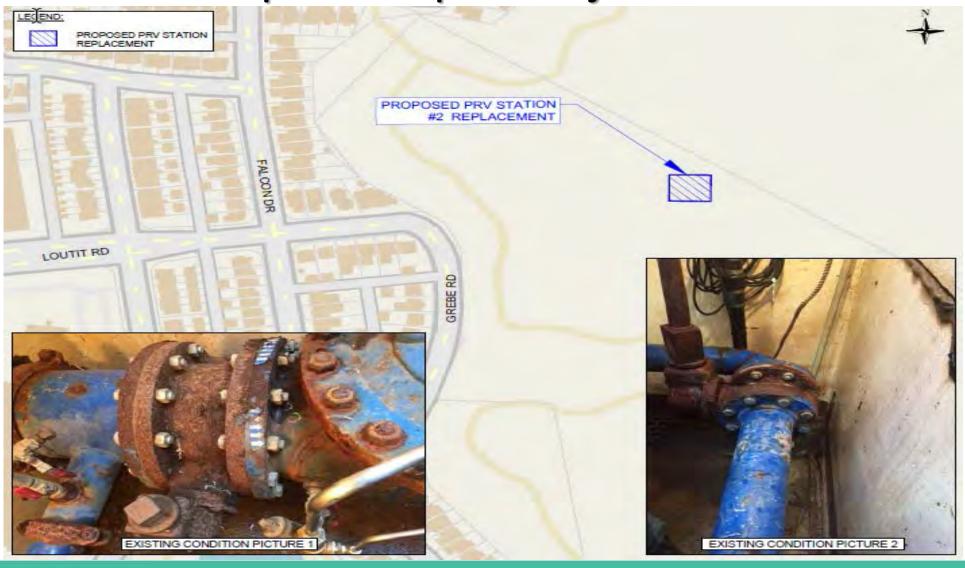


Project Name:	Fran	Franklin Avenue Sidewalk Improvement Opposite of Jubilee Plaza						
Reference No:	168	168 Sponsoring Department: Engineering						
Description:	Hard	This project is to install a concrete sidewalk on Franklin Avenue East between Hardin Street and Main Street. The new concrete sidewalk would align with the existing eastbound and westbound paved sidewalk on Franklin Avenue.						
Major Outcomes:	the c	The paved sidewalk will bring sidewalk continuity in Franklin Avenue, improve the downtown appearance and help businesses opposite of the Jubilee Building.						
Single Year Proje	ect	ct Actual Spent as at September 30, 2018: \$0						
2018 & Prior Bud	get	get 2019 Budget Request 2020 – 2023 Plan Total Budget All Year						
\$0)	\$900,000		\$0	\$900,000			





Project Name:	Timberlea PRV Station #2 - Design and Construction						
Reference No:	174	Sponsoring D	onsoring Department: Engineering				
Description:	The project consists of replacing the Timberlea pressure reducing valve station located at Loutit Road. The station is undersized causing pressure reduction which is detrimental to the downstream main.						
Major Outcomes:	Improved wate	r pressure fluc	tuation in the T	imberlea	area.		
Single Year Proje	ect Actual Spent as at September 30, 2018: \$0						
2018 & Prior Bud	Budget 2019 Budget Request 2020 – 2023 Plan Total Budget All Yea						
\$0	\$0 \$330,000 \$0 \$330,000						



Timberlea PRV Station #2 -**Design and Construction**





Project Name:	Drape	Draper Community Gathering Place - Design						
Reference No:	185	185 Sponsoring Department: Engineering						
Description:	<u>-</u>	This project is to design a community gathering space in the community of Draper.						
Major Outcomes:	Enhar	nce the qua	ality of life					
Single Year Proje	ject Actual Spent as at September 30, 2018: \$ 0					\$0		
2018 & Prior Bud	get	2019 Bud	get Request	2020 – 2023	3 Plan	Total Budget All Years		
Ç	\$		300,000		\$0	\$300,000		





Draper
Community
Gathering
Place Design









Questions?