



Engineering Capital Infrastructure Update

**February 19, 2019 Governance and Priorities
Committee Meeting**

Engineering Department
Community Development Services



Engineering Capital Infrastructure Project Updates

This report is intended to provide Engineering Capital Infrastructure Project Updates and information pertaining to the services which will be procured to assist Administration with Project Delivery. The projects listed are expected to be completed in 2019.

The report is broken down into the following sections:

1. At a Glance
2. Brief Project Descriptions
3. Next Steps
4. Project Location Map

1. At a Glance

Engineering Capital Infrastructure Projects	2019 Expense	2019 Expenditure to Date	Expected Work Start Date (Q1,Q2,Q3,Q4)	% Complete
1813603 – Drainage Channel Improvements	\$3,978,316	\$389,532.38	Q1	10%
1813612 - East Storm Channel Rehabilitation	\$950,845	\$13,089.10	Q1	0%
1813613 – Street Rehabilitation	\$2,985,000	\$0.00	Q2	0%
1813616 – Sanitary Main Replacement	\$1,270,000	\$0.00	Q2	0%
1813618 – Drainage Channel Improvements	\$585,000	\$0.00	Q3	0%
1813620 – Leachate Management System	\$2,170,000	\$6,350.00	Q1	0%
1913609 – Traffic Signal Network Timing and Configuration	\$225,000	\$0.00	Q1	0%
1913610 – Drainage Improvements	\$300,000	\$0.00	Q2	0%
1913611 – Neale Edmunds Storm System Improvements	\$250,000	\$0.00	Q4	0%
1913620 – 2019 Street Improvement Program	\$3,000,000	\$0.00	Q1	0%
1913621 – 2019 Water and Sewer Replacement Program	\$2,500,000	\$0.00	Q2	0%
1913623 – Traffic Signal Installation – Commercial Development	\$250,000	\$0.00	Q2	0%
1913632 – 2019 Traffic Signal Hardware Replacement	\$250,000	\$0.00	Q4	0%
2013620 – 2020 Street Improvement Program	\$300,000	\$0.00	Q3	0%
2013631 – 2020 Water and Sewer Replacement Program	\$150,000	\$0.00	Q3	0%



2. Brief Project Descriptions

1813603 – Drainage Channel Improvements (52 St & 62 Ave)

- Approved Budget: \$3,978,316.
- Project Description: The program will consist of the rehabilitation of the Northwest Drainage Channel system between the 57 Street crossing and the 67 Street crossing. Within the program four (4) culvert crossings and two (2) channel sections will be improved. The Engineering Team will be completing the Construction Management for this project in-house. Contractor Services were procured in 2018 and will continue through the remainder of the program.
- Services to be Procured: None.
- Estimated construction work completed to date: 10%
- Expenditure to date: \$389,532.38

1813612 – East Storm Channel Rehabilitation

- Approved Budget: \$950,845.
- Project Description: The program will consist of the rehabilitation of the outfall control structure within the East Drainage Channel system located southeast of the Waste Water Treatment Facility. Within the program the control structure and channel sections will be improved. The Engineering Team will be completing the Construction Management of a portion of this project in-house, while the current consultant will be providing Construction Management services associated with the reinforced concrete drop structure. Contractor Services were procured in 2018 and will continue through the remainder of the program.
- Services to be Procured: None.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$13,089.10

1813613 – Street Rehabilitation (12-44 St/40 Ave)

- Approved Budget: \$2,985,000.
- Project Description: The program will consist of the rehabilitation of 40 Avenue between 12 Street and south of 41 Street through full depth reclamation using foamed asphalt. This program will be completed in conjunction with the 1813618 – Drainage Channel Improvements (East, Lake K) program. Consultant Services associated with Design, Project Management and Construction Management were previously procured in 2018 and will continue through the remainder of the program.
- Services to be Procured: Contractor Services.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00

1813616 – Sanitary Main Replacement (36-40 St/48 Ave)

- Approved Budget: \$1,270,000.
- Project Description: The program will consist of completing the removal and replacement of the sanitary sewer main and related appurtenances along 45 Avenue between 44 Street and 46 Street in order to improve the existing sanitary sewer trunk main. These improvements are in conjunction with improving the capacity of the sanitary sewer main along 47 Avenue between 40 Street and 44 Street in an effort to minimize surcharging within the 36 Street Sanitary Sewer trunk Main. Consultant Services associated with Design were previously procured in 2018. The Engineering Team will be completing the Construction Management for this project in-house.
- Services to be Procured: Contractor Services.
- Estimated construction work Completed to date: 0%
- Expenditure to date: \$0.00



1813618 – Drainage Channel Improvements (East, Lake K)

- Approved Budget: \$585,000.
- Project Description: The program will consist of completing the removal and replacement of two (2) culvert crossings within the East Drainage Channel near 40 Avenue. The two (2) locations have been selected to be improved due to the timing of the 40 Avenue Rehabilitation project scheduled for mid-summer 2019. Consultant Services associated with Design and Project Management were previously procured in 2018 but will cease in 2019. The Engineering Team will be completing the Construction Management for this project in-house.
- Services to be Procured: Contractor Services.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00

1813620 – Leachate Management System

- Approved Budget: \$2,170,000.
- Project Description: The program will consist of completing the final stages of design and construction of the proposed Leachate Management System at the City's Municipal Landfill. Consultant Services associated with Design, Project Management and Construction Management were previously procured in 2018 and will continue through the remainder of the program.
- Services to be Procured: Contractor Services.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$6,350.00

1913609 – Traffic Signal Network Timing and Coordination

- Approved Budget: \$225,000.
- Project Description: The program will consist of completing an assessment of the Highway 16 (44 Street) corridor, in order to provide a system assessment and traffic flow associated timing and hardware improvement recommendations. Consultant Services associated with Project Management will be procured in 2019.
- Services to be Procured: Consultant Services.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00

1913610 – Drainage Improvements (75 Avenue / 29-44 Street)

- Approved Budget: \$300,000.
- Project Description: The program includes the completion of a detailed design and tender package creation to remediate the ditch along the east side of 75 Avenue between 29 Street and 44 Street in an effort to minimize standing water and promote feasible ditch maintenance. The Engineering Team will be completing the Design, Project Management and Construction Management for this project in-house.
- Services to be Procured: Contractor Services.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00



1913611 – Neale Edmunds Storm System Improvements

- Approved Budget: \$250,000.
- Project Description: The program includes the remediation of the final control structure within the Neale Edmunds System. The program will consist of the removal and replacement of the existing Corrugated Steel Pipe (CSP) Culverts and associated channel rehabilitation. The Engineering Team will be completing the Design, Project Management and Construction Management for this project in-house.
- Services to be Procured: Contractor Services.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00

1913620 – 2019 Street Improvement Program

- Approved Budget: \$3,000,000.
- Project Description: The City of Lloydminster's annual Street Improvement, Asphalt Trail Improvement and Concrete Sidewalk Improvement Programs. Consultant Services associated with Design, Project Management and Construction Management will be procured in 2019.
- Services to be Procured: Consultant Services & Contractor Services.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00

1913621 – 2019 Water and Sewer Replacement Program

- Approved Budget: \$2,500,000.
- Project Description: The City of Lloydminster's annual Water and Sewer Main Replacement Program. The 2019 program will consist of 47 Avenue between 40 Street and 44 Street. The improvements along 47 Avenue are in conjunction with the upgrades proposed for 45 Avenue as both are an effort to minimize surcharging within the 36 Street Sanitary Sewer trunk Main. The design phase has been completed as part of the Sanitary Main Replacement program (1813616). Consultant Services associated with Design, Project Management and Construction Management will be procured in 2019.
- Services to be Procured: Consultant Services & Contractor Services.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00

1913623 – Traffic Signal Installation – Commercial Development (75 Avenue)

- Approved Budget: \$250,000.
- Project Description: The program includes the design and construction of proposed traffic signals at the intersection of Best Buy/Sobey's and 75 Avenue. A design-build procurement strategy will be used, as such Consultant Services associated with Design, Project Management and Construction Management, and Contractor Services will be procured concurrently in 2019.
- Services to be Procured: Consultant Services & Contractor Services.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00



1913632 – 2019 Traffic Signal Hardware Replacement

- Approved Budget: \$250,000.
- Project Description: The program includes the implementation of the recommendations provided within the Traffic Signal Network Timing and Coordination program (1913609). The Engineering Team will be completing the Project Management and Construction Management for this project in-house.
- Services to be Procured: Contractor Services.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00

2013620 – 2020 Street Improvement Program

- Approved Budget: \$300,000.
- Project Description: Preparation for the City of Lloydminster's annual Street Improvement, Asphalt Trail Improvement and Concrete Sidewalk Improvement Programs. The areas to be included in the program will be reviewed by the Engineering Team in conjunction with the Operations Group. Consultant Services associated with Design and Project Management will be procured in 2019.
- Services to be Procured: Consultant Services.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00

2013631 – 2020 Water and Sewer Replacement Program

- Approved Budget: \$150,000.
- Project Description: Preparation for the City of Lloydminster's annual Water and Sewer Main Replacement Program. The areas to be included in the program will be reviewed by the Engineering Team in conjunction with the Operations Group. Consultant Services associated with Design and Project Management will be procured in 2019.
- Services to be Procured: Consultant Services.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00

3. Next Steps

- Engineering Team to determine appropriate dates for preparing procurement documents;
- Procurement services that are required for each program as per the City of Lloydminster's Procurement and Purchasing Policy; and
- Consultant and Contract award document preparation.