

# 2019 Engineering Annual Report

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## **Major Projects in 2019**

### 1. 2019 Street Improvement Project.

- 200 block of 3<sup>rd</sup> St W – 100 m full structure rebuild and remaining 28 m was milling and paving.
- 400 block of 2<sup>nd</sup> St W – 156 m full structure rebuild and 117 m curb and gutter rebuild
- 300 block of 2<sup>nd</sup> St W – 106 m milling and paving.
- 200 block of 2<sup>nd</sup> St W – 131 m full structure rebuild and 16 m curb and gutter rebuild
- 100 block of 2<sup>nd</sup> Ave E – 84 m milling and paving
- Bridger Dr from 5<sup>th</sup> St W to Gibson Cr (west leg) – 218 m full structure rebuild with subsurface drainage improvements.
- Palenchuk Pl – 100 m full structure rebuild with subsurface drainage improvement
- Morin Cr – 150 m full structure rebuild and 165 m milling and paving
- Marion Cr – 175 m full structure rebuild, 140 m milling and paving and 34 m curb replacement.
- 5<sup>th</sup> St W between 5<sup>th</sup> Ave and 7<sup>th</sup> Ave W – 340 m full structure rebuild
- 2962 m<sup>2</sup> of utility patches

Total Cost of Paving Project = \$2,046,159.



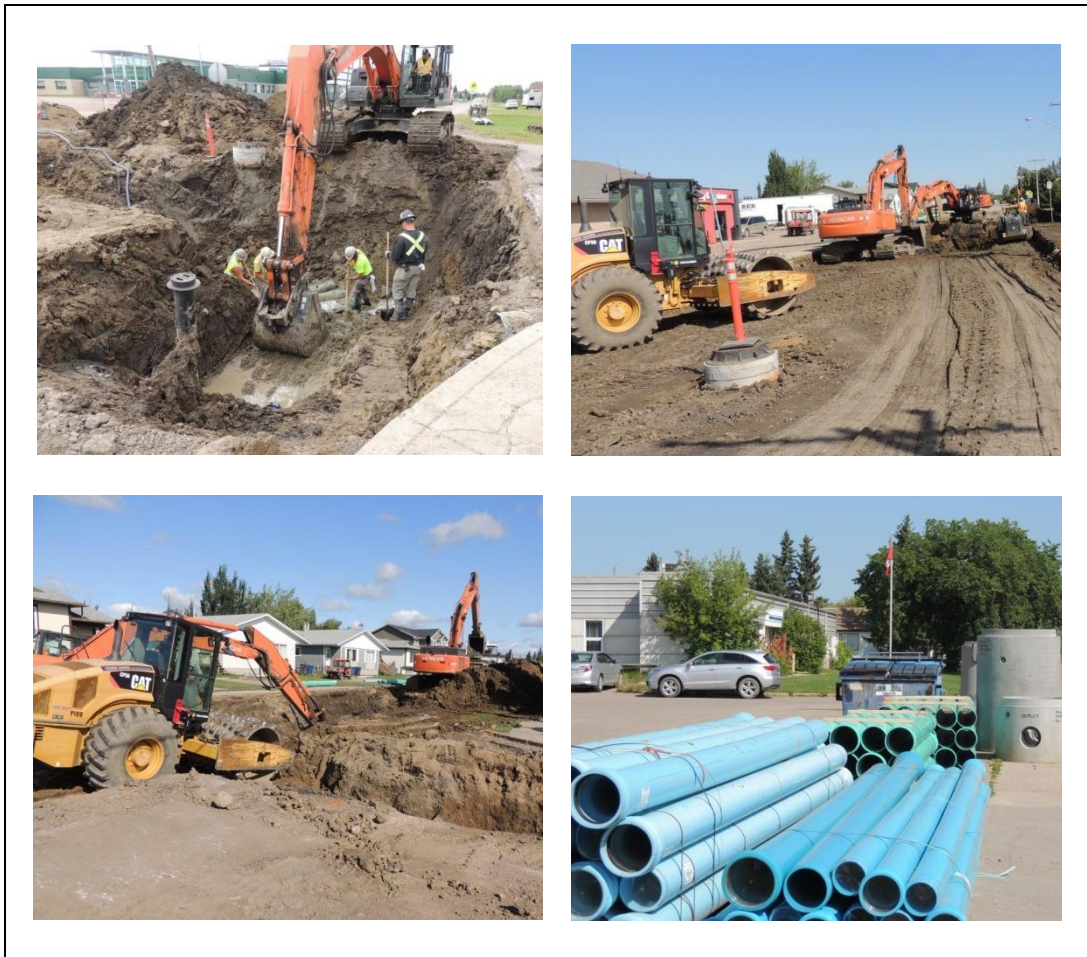
# 2019 Engineering Annual Report

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## 2. 5<sup>th</sup> St W Water and Sewer Replacement Project

- Replaced 340 m lengths of 250 mm diameter Clay Tile sanitary sewer pipe with PVC pipes.
- Replaced 5 – 1200 mm diameter sanitary sewer manholes.
- Replaced 250 m lengths of 200 mm diameter Asbestos Cement water main with PVC pipes.
- Replaced 90 m lengths of 150 mm diameter Asbestos Cement water main with PVC pipes.
- Replaced 1-150 mm and 2-200 mm water main valves.
- Replaced all service connections up to the property lines.

Total Cost = \$517,345 (includes certified operator inspection service cost)



## 3. Sidewalk and Curb Repair Project and Cross-Sidewalk Drains Installation

- Replaced 198 m lengths of sidewalk.
- Replaced 298 m length of curb.
- Replaced 118 m of combined sidewalk and curb.
- Replaced 8 cross-sidewalk drains in the downtown area

Total cost = \$101,427

# 2019 Engineering Annual Report

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#### 4. Application of CRF Restorative Seal on Highway 55.

- Applied CRF- asphalt rejuvenating oil on Highway 55 from Highway 4 to 4<sup>th</sup> St E (except the concrete sections near Centre St).
- 5569 L of CRF oil was applied

Total cost = \$34,397



# 2019 Engineering Annual Report

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## 5. Infrastructure Project Grants

- Disaster Mitigation and Adaption Fund grant through Infrastructure Canada
  - Approval of the final application was announced in March 2019.
  - \$20.0 M project with federal contribution \$8.0 M and project duration up to 2027.
  - Contribution agreement will be signed shortly.
  - Project includes construction of a sewage lift station, replacing all common trench water and pressured sewer lines on the east side and moving the lagoon further away from the developed area in the City.
  
- Invest in Canada Infrastructure Project Grant
  - 5 project applications were submitted: 4 under green infrastructure stream and 1 under community, culture and recreation infrastructure stream.
  - The detailed project application was opened in December 2019 with application intake for one project under each stream.
  
- Urban Highway Connection Program Project Grant
  - Grant application was submitted to mill and pave Highway 4 starting from the Museum approach up to the Highway 55 and full depth reconstruction of an 80 m segment at the Highway 4 and 55 intersections.

## 6. Other Infrastructure Works

There were a few projects that were done in coordination with Public Works

- Replaced 8 hydrants; Total approx. cost = \$125,000
- Repair or replaced 12 valves; Total approx. cost = \$69,153.34
- Installed 65 culverts of 555 m length; material cost = \$26,313 and the installation was done by the Public Works staff.

## 7. Asset Management Works

- Asset Management Coordinator joined in June 2019.
- Prepared an asset management implementation plan and submitted to Council.
- Asset management policy was adopted by Council.
- Entered the materials, machinery and equipment and their cost into the CityWide software.
- Worked on common ID between the TCA inventory and GIS shapefiles for valves and water pipes.
- Attended the following training courses
  - Professional certification on asset management planning.
  - NAMS.PLUS 3-day asset management training workshop.
  - Online webinar on level of service development, risk management and long term financial planning.