



2025 CITY OF SASKATOON CONSTRUCTION PROJECT FORECAST

December 12, 2024





SAFETY UPDATE – ISN CERTIFICATION CHANGES

Hector Lopez
Operations Superintendent (Safety)



Sub-Contractor ISN Certification

- ISN is a web-based tool used by the City for contractor safety management system compliance and ensuring contractor risks are assessed and monitored. ISN collects, reviews, and verifies a potential company's safety related information to ensure they meet the minimum requirements set by Saskatchewan Occupational Health and Safety Regulations.
- ISN assists the City of Saskatoon in managing information such as Saskatchewan WCB account status, insurance coverage, performance statistics, as well as written programs and procedures.

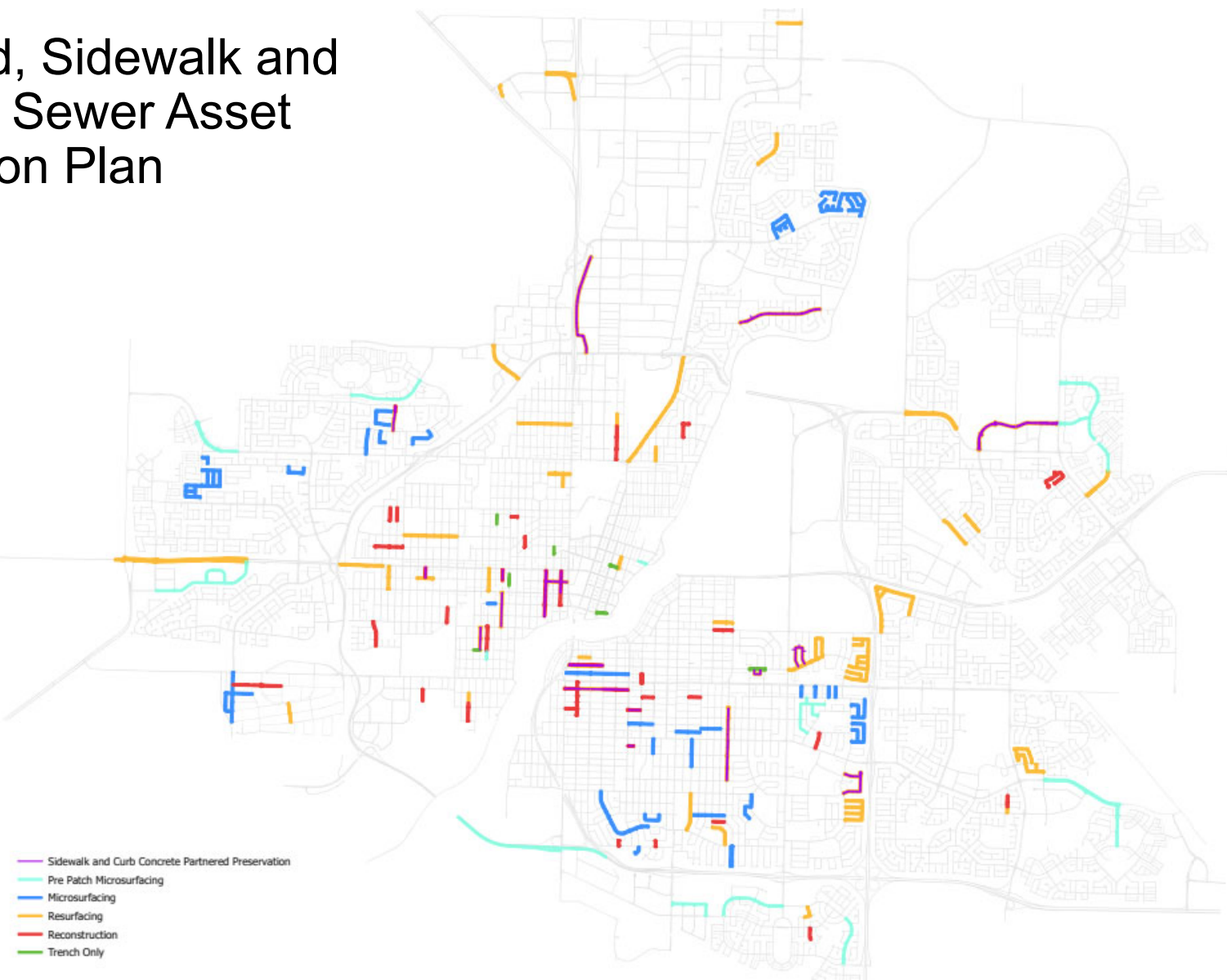


ROADWAYS PRESERVATION

Andy McMeekin
Senior Project Management Engineer



2025 Road, Sidewalk and Water and Sewer Asset Preservation Plan

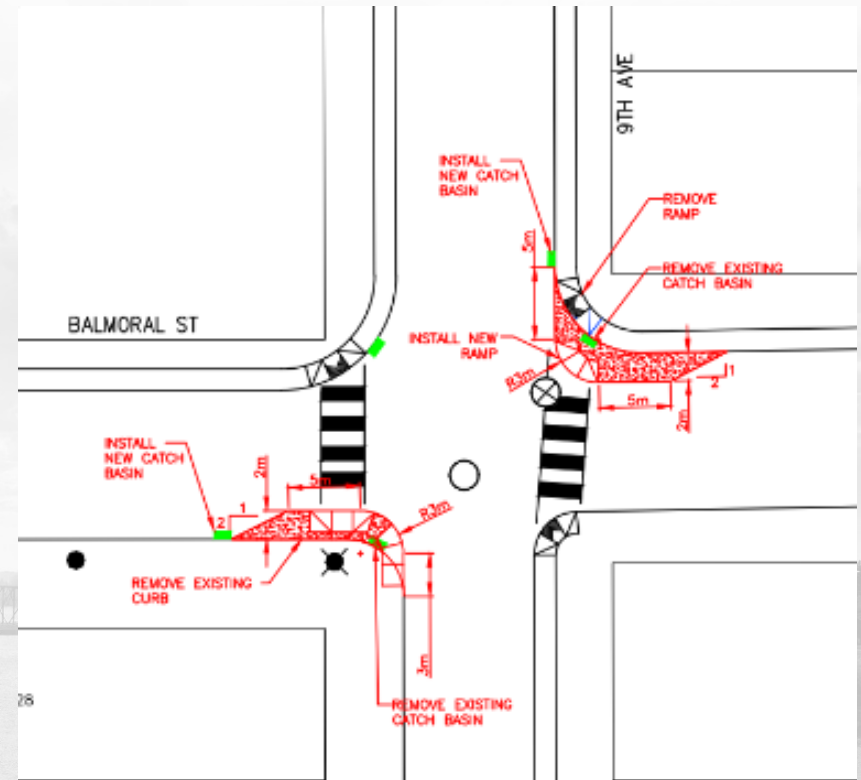


Roadway and Sidewalk Preservation

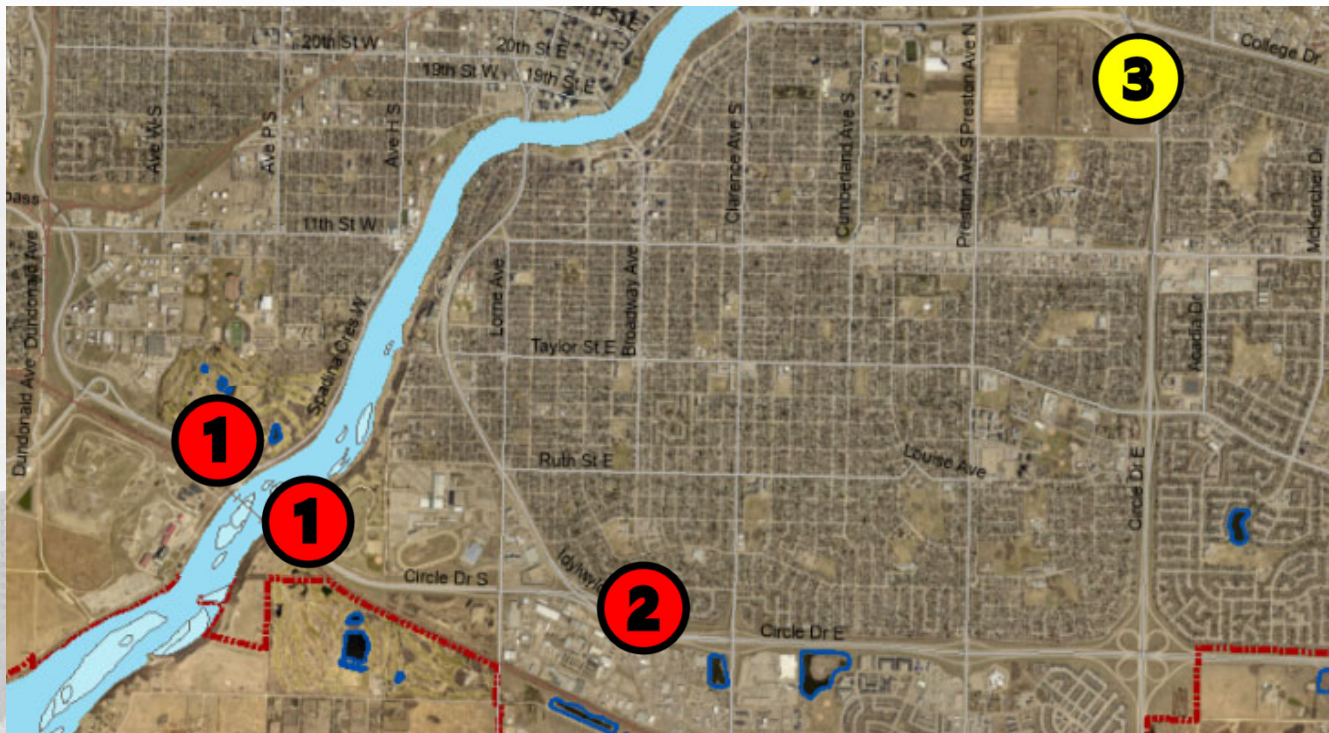
| Contract Type | Resurfacing and Concrete | Pre-micro Patching | Microsurfacing | Concrete Preservation |
|---|--------------------------|--------------------|----------------|-----------------------|
| Number of Contracts | 5 | 1 | 2 | 3 to 4 |
| Est. Roadway Treatment area/contract (m2) | 61,800 | 8000 | 112000 | |
| Estimated asphalt tonnage/contract | 9000 | 1152 | NA | |
| Est. Sidewalk panel replacment area (m2)/contract | 1040 | NA | NA | 1600-2000 |
| Est. sidewalk curb replacement length (linm)/contract | 350 | NA | NA | 750-1000 |
| Est Tender Advertise Date | Feb-25 | Feb-25 | Feb-25 | Mar-25 |

Channelization and Accessibility Improvements

- Traffic calming/curb extensions
 - Various locations
 - Includes speed cushions on McClockin Road
- Walkway infrastructure improvements
 - Bollard installation
- Pedestrian ramp installation
 - Approx 40 ramps at various locations
- Estimated Tender Date: March/April 2025



Roadside Safety Improvements



1. Circle Drive between Valley Road and Idylwyld Drive (both sides)
2. Circle Drive between Clarence Avenue and Idylwyld Drive
3. Circle Drive between College Drive and 14th Street (both sides)

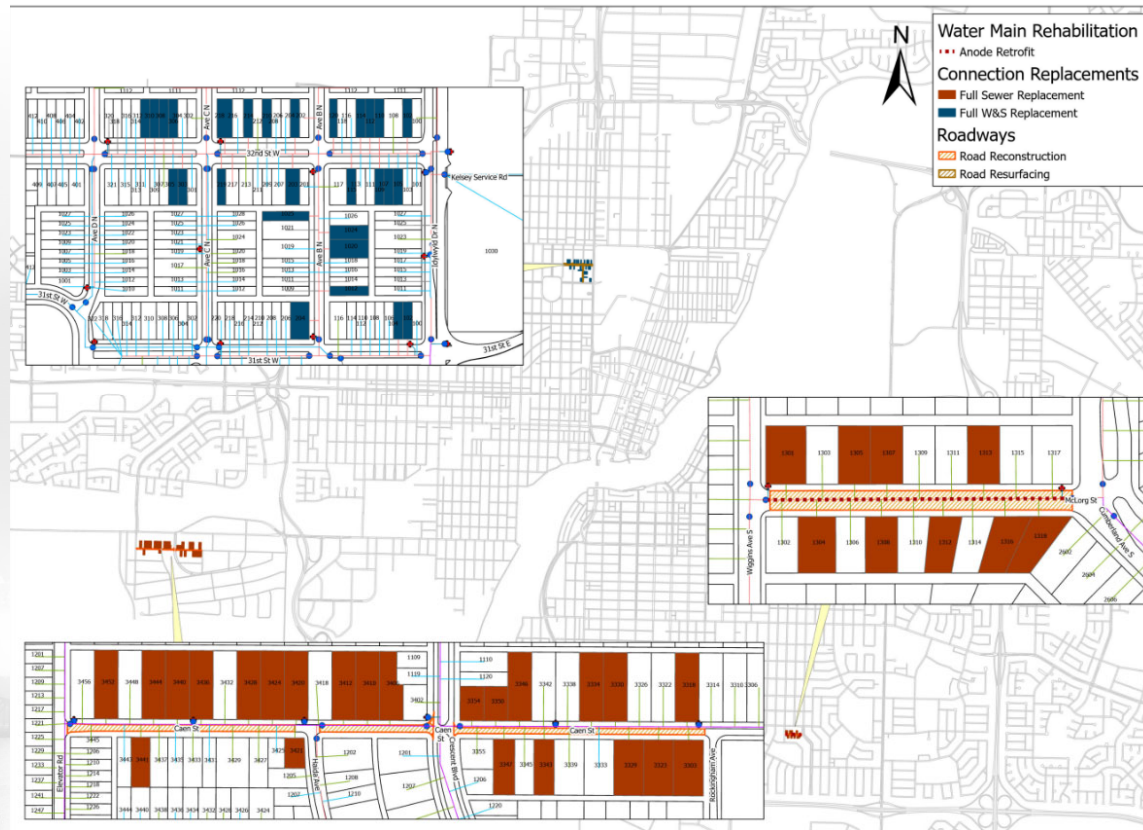
 Guard Rail Install

 Guard Rail Replace

2025 Resurfacing and Connection Repl.

- Highlights:
 - Replace 32 sewer only connections
 - Replace 28 water and sewer connections
 - Cathodic protection installation on Mclorg Street
- Resurface:
 - ~13,000m²/1870 tonnes
- Estimated tender date:
February 2025

2025 Connections and Recon Overview



Montgomery Place Drainage Improvement – Phase III (2025/2026)

Phase III

- Ditches, Culverts and Storm Sewer Construction
 - Crerar Drive - Ortona Street to Mountbatten Street
 - Casino Avenue - Mountbatten Street to 1679 Casino Avenue
 - Elevator Road - Caen Street to 11th Street (Optional)

Scope of Work

- 1700 lin.m of Ditch construction
- 100 lin m of catch basin leads
- 800 lin.m of 300mm Culverts
- 2000m² resurfacing/330 tonnes of resurfacing work

Estimated Tender Dates

- Tender - January 2025
- Construction - May 2025 to September 2026





WATER AND SEWER

Sohrab Khan
Senior Project Management Engineer



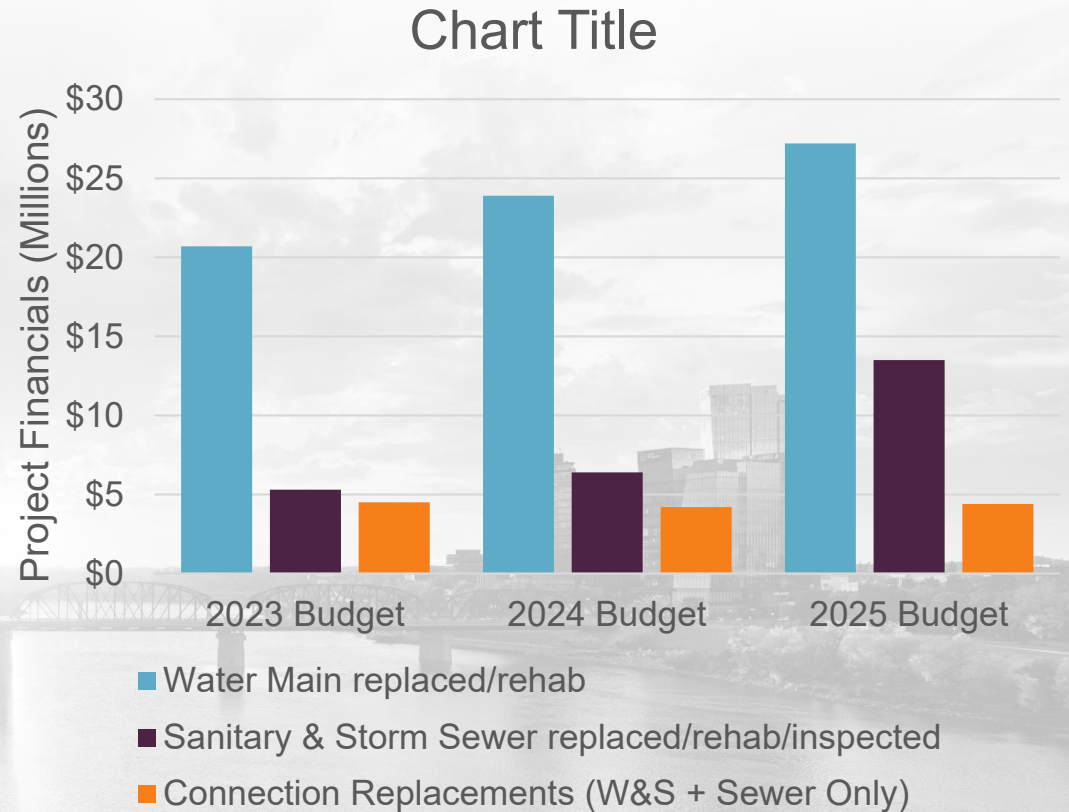
Water and Sewer Project Quantities

| | 2023 Quantities | 2024 Quantities | 2025 Quantities |
|---|-----------------|-----------------|-----------------|
| Water Main replaced/rehab | 4,265m | 5,080m | 5,200m |
| Sanitary & Storm Sewer replaced/rehab/inspected | 12,000m | 11,500m | 17,900m |
| Connection Replacements (W&S + Sewer Only) | 579 each | 325 each | 384 each |
| Roadway Treatments under W&S | 24,300 l-m | 8,400 l-m | 8,900l-m |



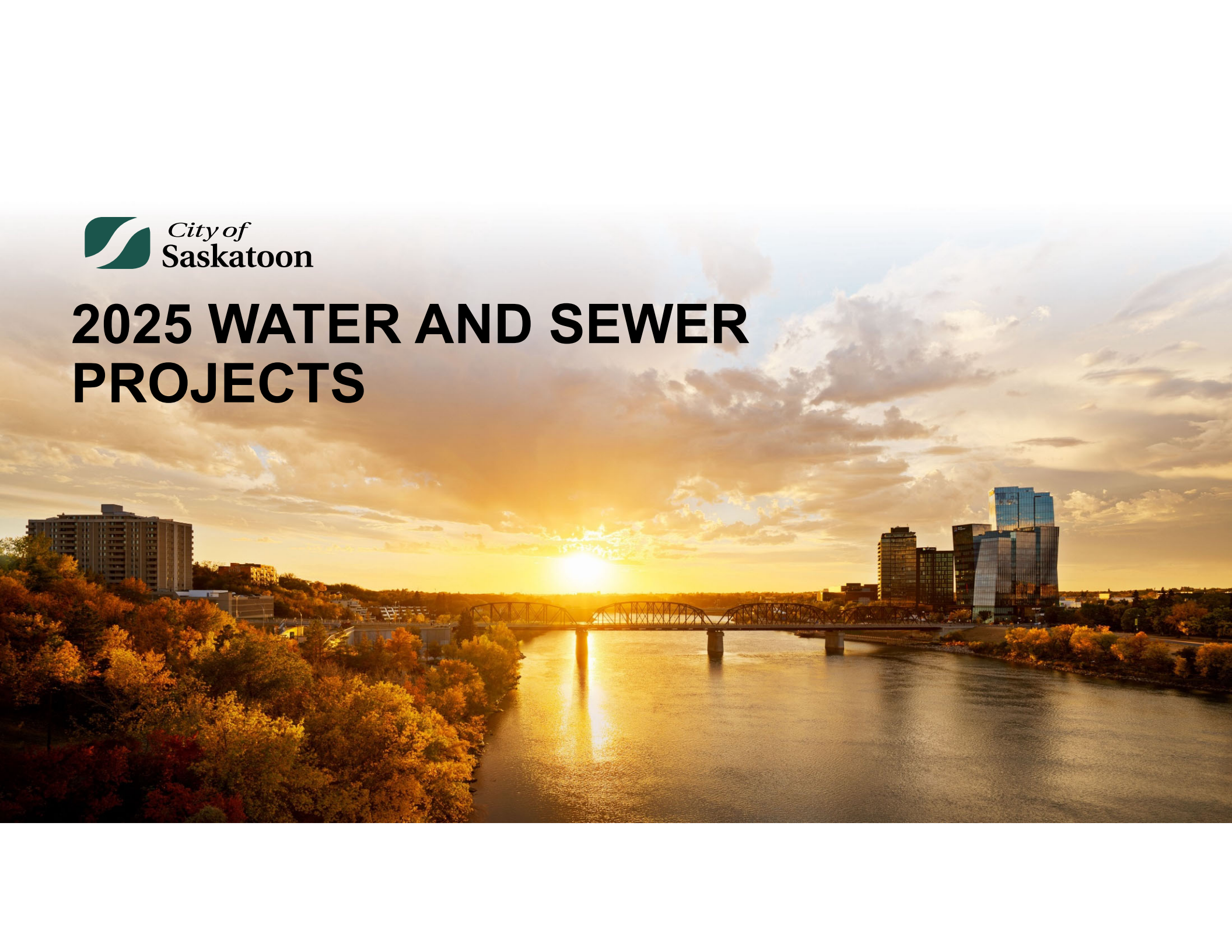
Water and Sewer Project Financials

| | 2023 Budget | 2024 Budget | 2025 Budget |
|---|------------------|------------------|------------------|
| Water Main replaced/rehab | \$ 20.7 M | \$ 23.9 M | \$ 27.2 M |
| Sanitary & Storm Sewer replaced/rehab/inspected | \$ 5.3 M | \$ 6.4 M | \$ 13.5 M |
| Connection Replacements (W&S + Sewer Only) | \$ 4.5 M | \$ 4.2 M | \$ 4.4 M |
| Total | \$ 30.5 M | \$ 30.8 M | \$ 45.1 M |





2025 WATER AND SEWER PROJECTS



2025 East Overview

Water Main Preservation – East

Highlights:

- 1570 m watermain replacement
- 300 m Anode retrofit
- Replace 100 service connections
- 6.6 lane-km paving

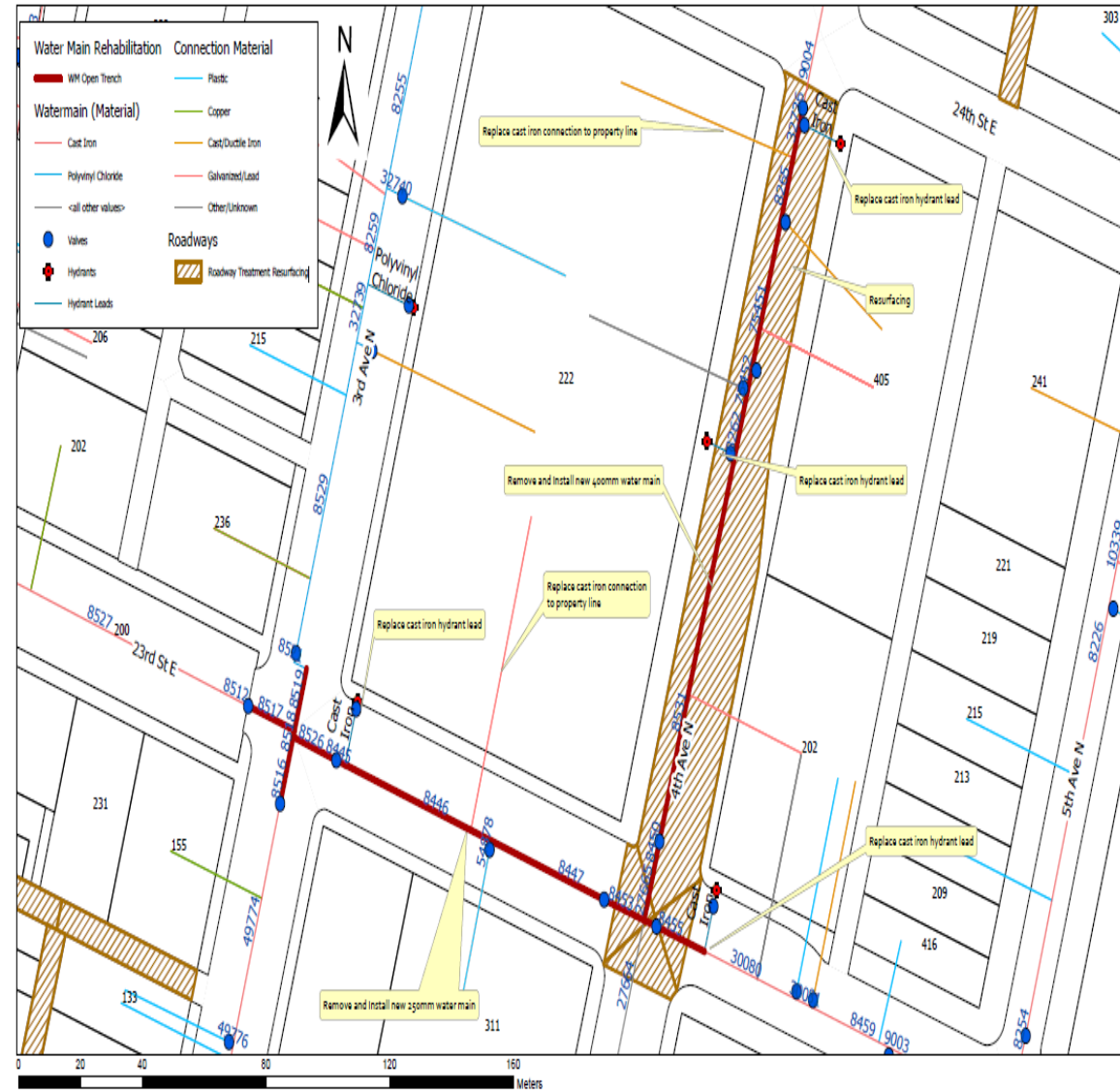


Downtown Water Main Preservation Overview

Highlights:

- 352 m water main replacement
- 0.9 lane km Paving

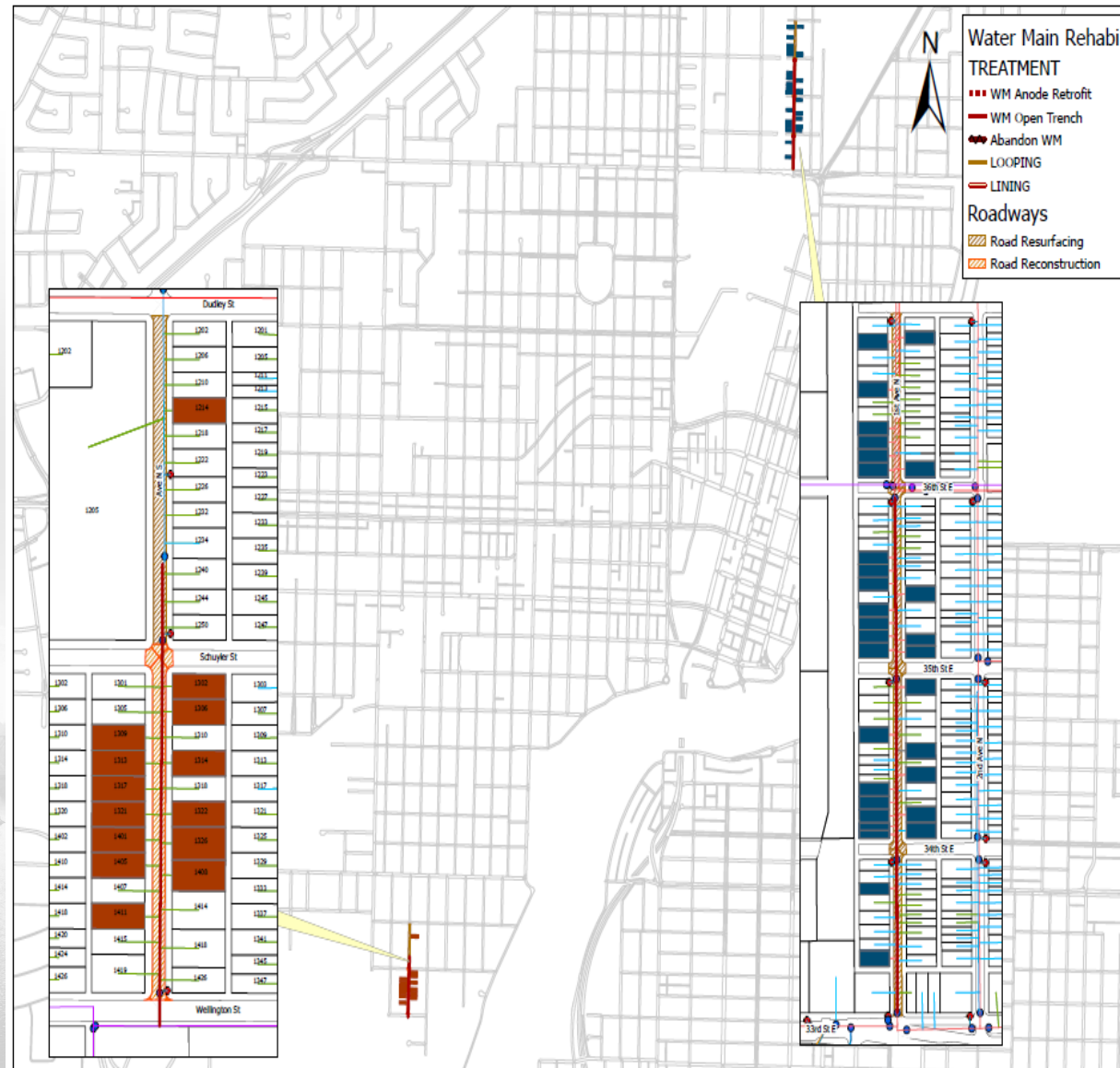
4th Ave and 23rd St Specifics



WM and Roadway Preservation – West 1

Highlights:

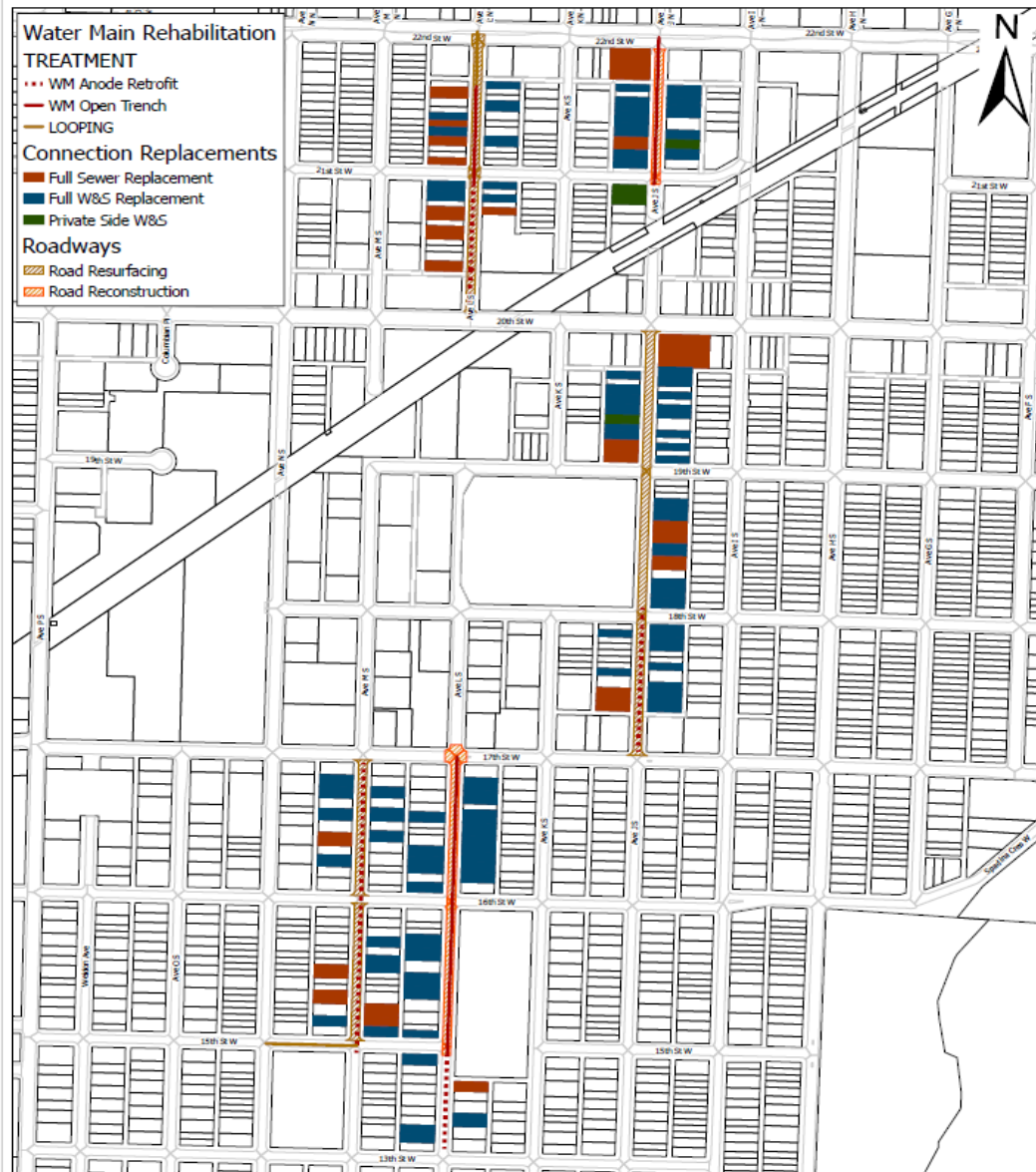
- 770 m water main replacement
- Replace 60 service connections
- Pave 2.7 lane-km of road restoration/ treatment



WM and Roadway Preservation – West 2

Highlights:

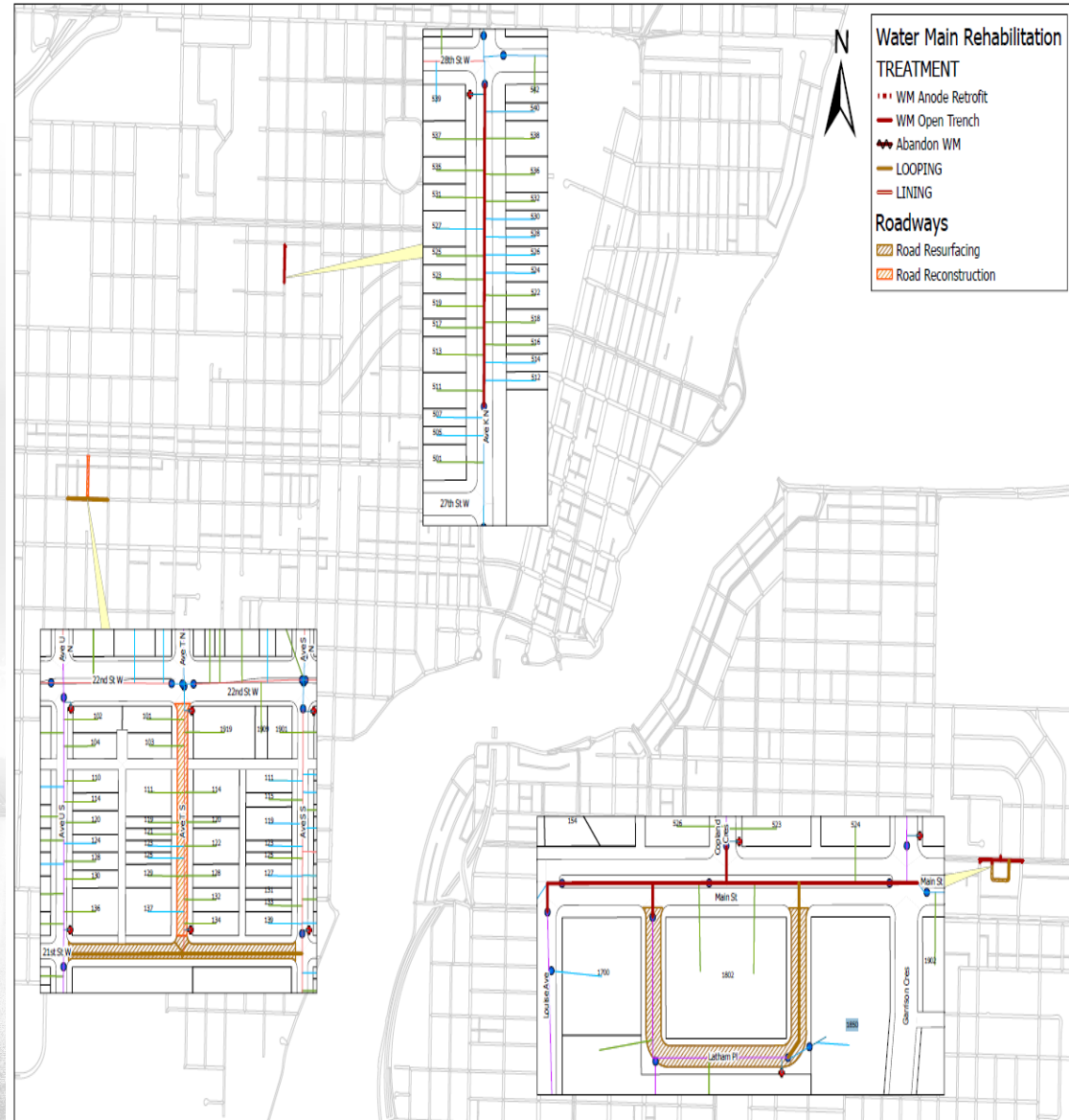
- 650 m water main replacement
- 770 m of anode installation
- Replace 110 service connections
- 4.1 lane-km of road restoration/ treatment



Watermain Preservation

Highlights:

- 630 m water main replacement
- No Service Connections
- 2.7 lane km Paving



Water Main CIPP Lining

Highlights:

- 740m water main lining of various diameters
- 0 Service Connection replacements

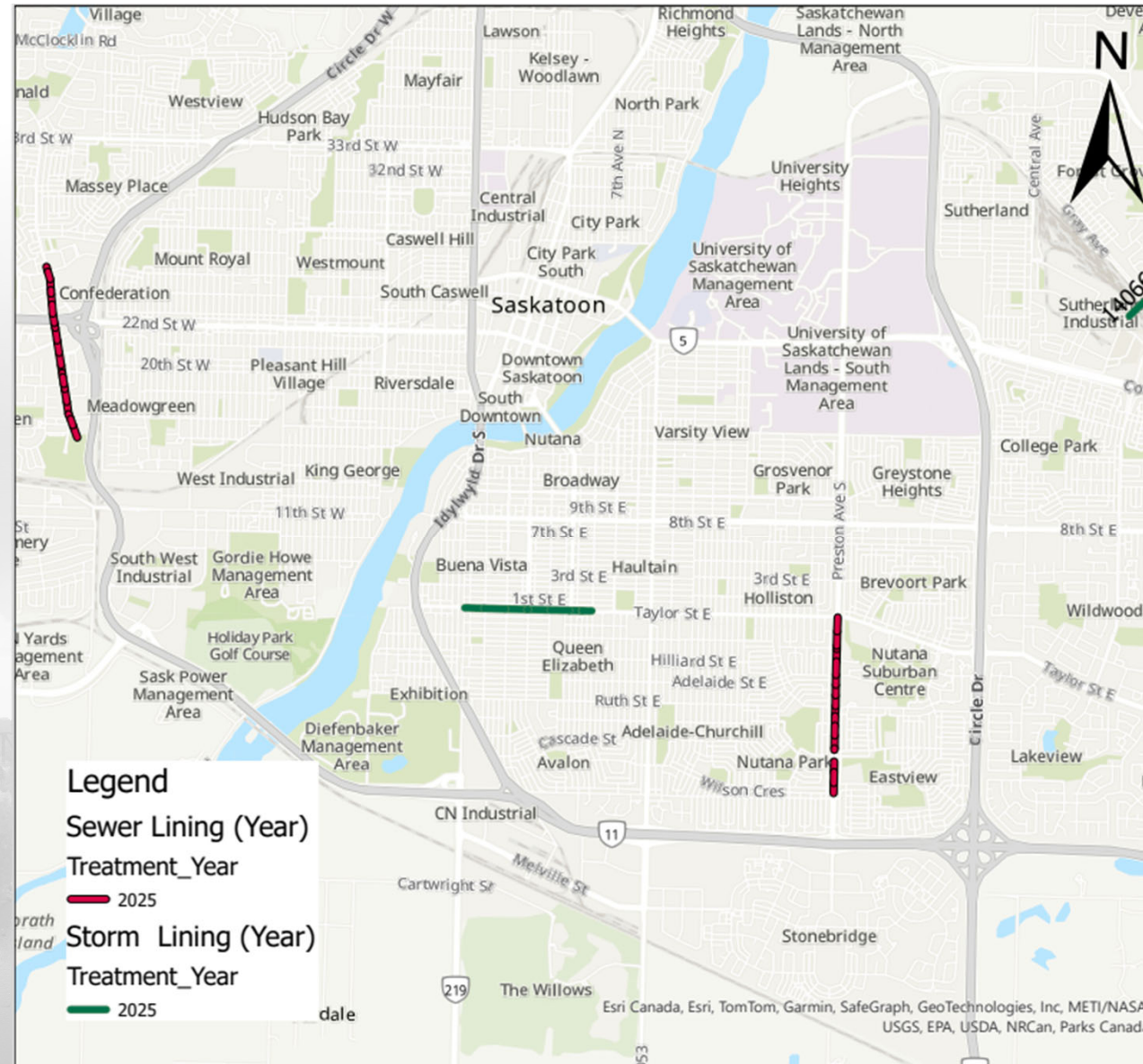
2025 WM Lining Overview



Sewer Trunk Lining

Highlights:

- 2980 meters of Sanitary Trunk Lining
 - Confederation Drive/Fairmont Drive
 - Preston Avenue
- 1335 meters of Storm Trunk Lining
 - Taylor Street Storm Trunk
 - Segment in CP Rail Yards



FCS Project 5 - Cumberland Park Dry Pond

Phases

- Work will happen in four general phases
 - Phase I: Pond Excavation
 - Phase II: Storm Sewer, Watermain and Roadway Construction
 - Phase III: Landscape Construction
 - Phase IV: Landscaping Maintenance

Timeline

- Dry Pond and W&S Tender - December 2024 to January 2025
- Construction - March to September 2025
- Landscaping Tender - January to February 2025
- Construction - July to September 2025
- Landscape maintenance - September 2025 to September 2026

Scope of Work

- 17,550 m3 of earthworks
- 66 lin.m of 450mm Storm Sewer
- 168 lin.m of 1200mm Storm Sewer
- 25 lin.m of 250mm Watermain
- 31 lin.m of 300mm Watermain
- 1663 m2 of roadway construction
- Landscaping work - see Parks presentation



FCS Project 6 - USask Dry Pond

Phases

- Work will happen in four general phases
 - Phase I: Pond Excavation
 - Phase II: Storm Sewer /w Outfall Structure, Control Manhole, Roadway and Sanitary Sewer Force Main and Gravity Main Construction
 - Phase III: Landscape Construction
 - Phase IV: Landscaping Maintenance

Timeline

- Dry Pond and W&S Tender - December 2024 to January 2025
- Construction - March to September 2025
- RFP for Landscape Design Services - January 2025
- Landscaping Tender - July 2025
- Construction - September 2025 to June 2026
- Landscape Maintenance - June 2026 to June 2027

Scope of Work

- 74,600 m³ of earthworks
- 50 lin.m of 1200mm Storm Sewer
- 190 lin.m of 200mm Sanitary Sewer Force Main (Option#1)
- 250 lin.m of Sanitary Sewer Gravity Main, Size - TBD (Option#1)
- 290 lin.m of 200mm Sanitary Sewer Force Main (Option# 2)





LAND DEVELOPMENT

Miguel Gaudet
Project Engineer



2025 Land Development Projects

Water & Sewer

- HVBP Storm Pond & Trunks
- Blairmore PWM Phase 1
- Cartwright St. Sanitary Trunk
- Brighton NH1-7 Pond
- Kensington E1
- Aspen Ridge E1
- Organics Processing Facility

Water, Sewer, and Roadways

- Marquis 11A3

Area Grading

- Aspen Ridge E1/E2

Roadways

- Central Avenue Pathway

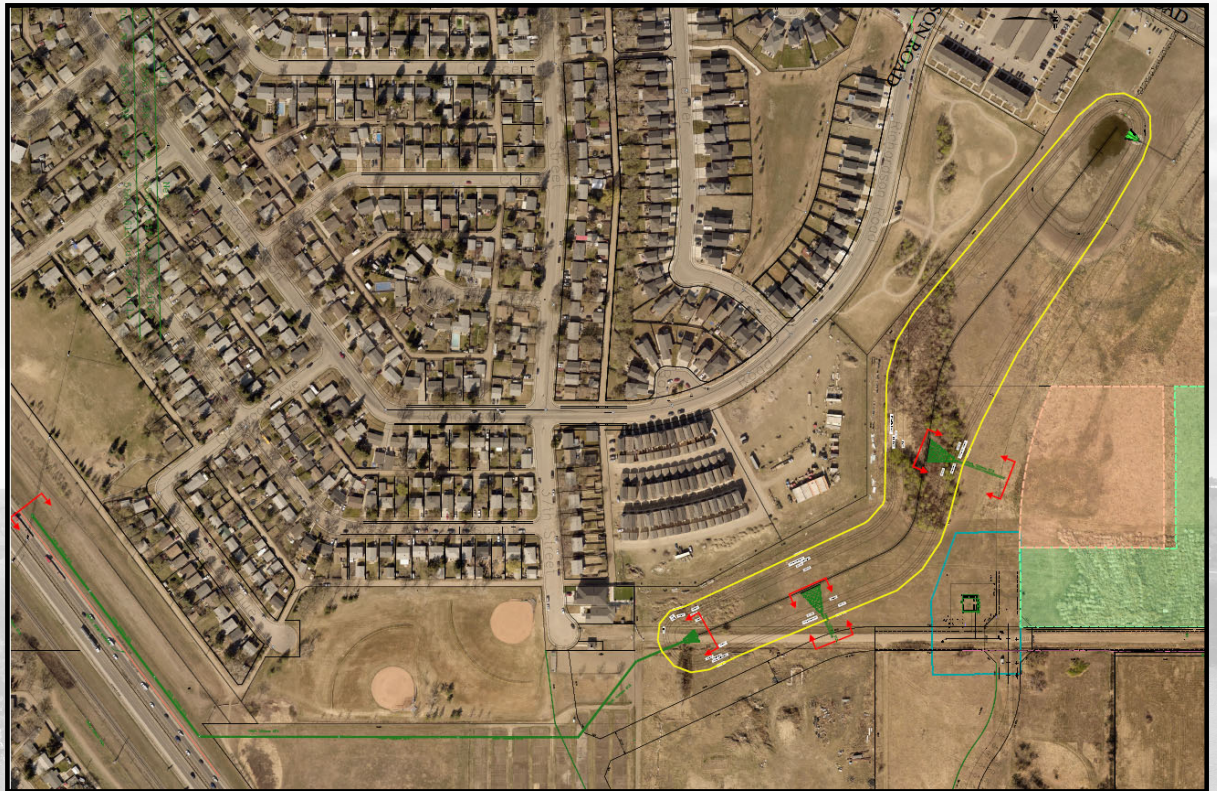
2025/ 2026

- UH Sanitary River Siphon and Sewer Main

Hampton Village Business Park (HVBP) Storm Pond and Trunks

Provides storm water services to the HVBP development.

- 190,000m³ Excavation
- 730m 1050mm RCP
- 180m 1200mm RCP
- High Score RFQ
- Post – January 2025
- Start – March 2025
- Complete – Fall 2025



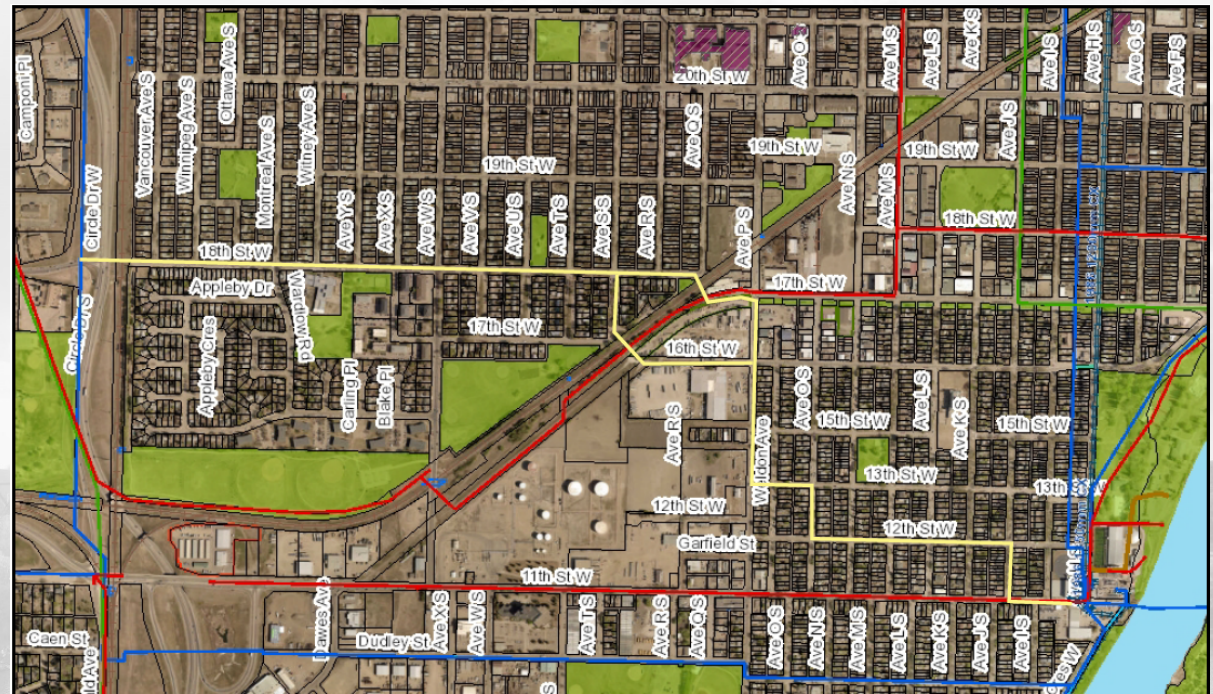
Project Engineer – **Patrick Ngalura** Inspector(s) – **Lucas Brown/ Trevor Depeel**

Blairmore PWM Phase 1

Water servicing for the future Blairmore developments on the far west side.

- Phase 1 will be WTP to CD
- Route is TBD
- Through existing neighbourhoods and cityscape
- Typical constraints: many utility crossings, overhead lines, trees, potential impacted soil management

- 3.3km 1050mm PWM
- Negotiated RFP
- Post – Feb 2025
- Start – Spring 2025
- Complete – Fall 2026

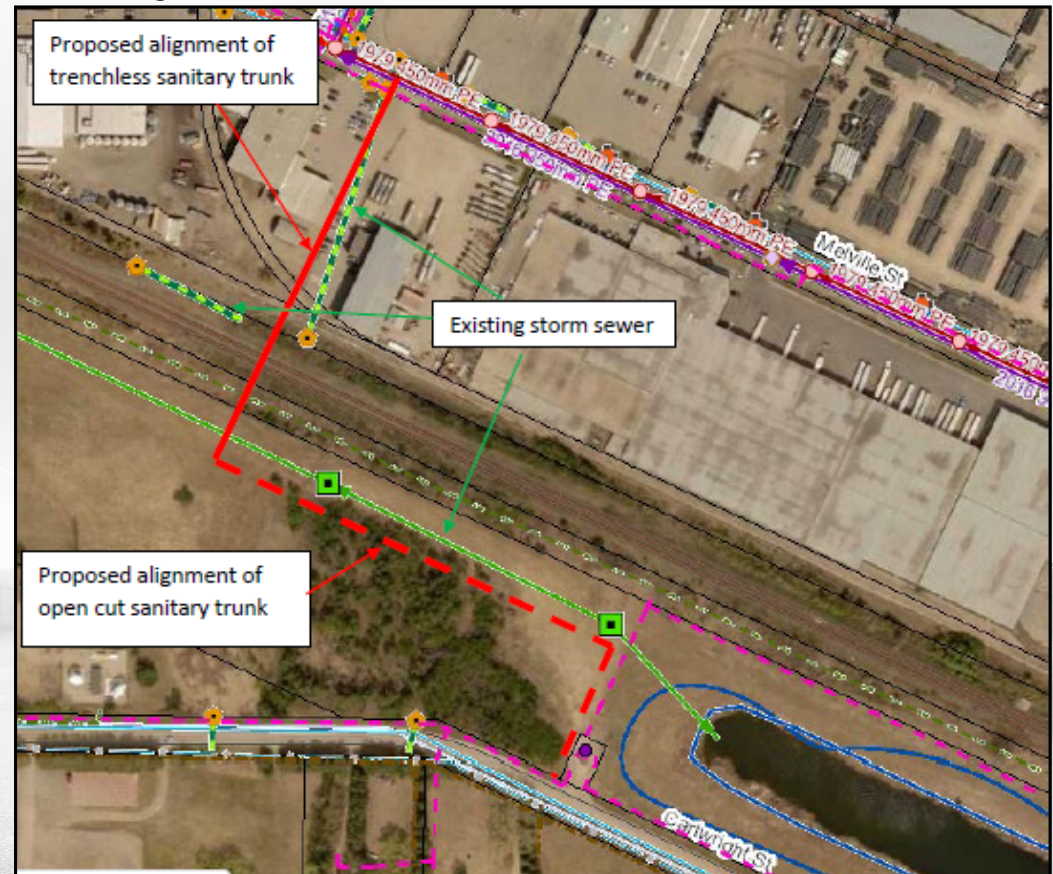


Project Engineer – **Dayna Johnson** Inspector(s) – **Travis Hartman**

Cartwright St. Sanitary Trunk

Provide sanitary sewer services to Willows Development, located just east of Lorne Ave.

- 375mm SS Trunk
 - 220m trenchless
 - 320m open cut
- High Score RFQ
- Post – Late 2024
- Start – Spring 2025
- Complete – Fall 2025



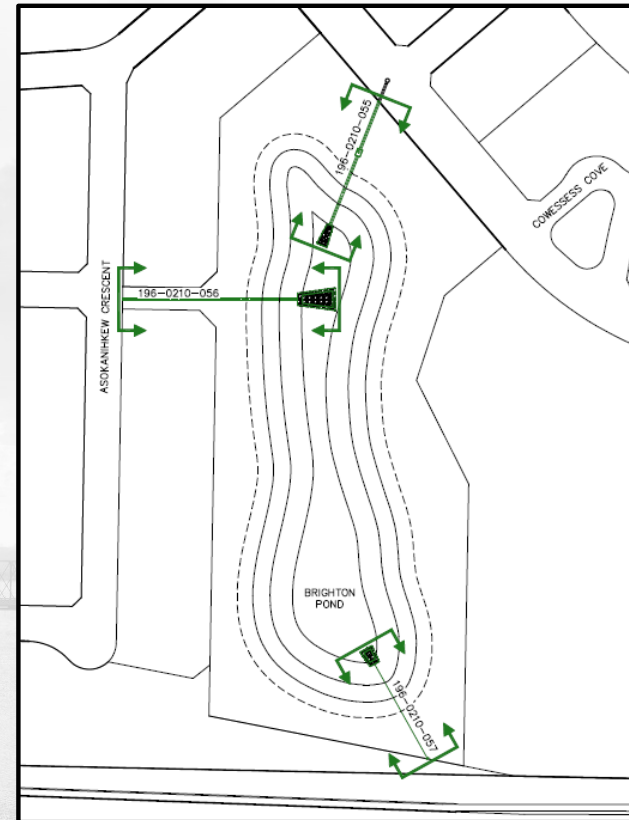
Project Engineer – **Brian AuCoin** Inspector(s) – **Brett Pelletier**

Brighton NH1-7 Pond

Naturalized storm pond to provide flood mitigation to adjacent streets and neighbourhood.

- 12,000m³ Excavation
- 25m 1050mm PVC
- 115m 1050mm RCP
- 50m 600mm RCP
- High Score RFQ
- Post – January 2025
- Start – March 2025
- Complete – Fall 2025

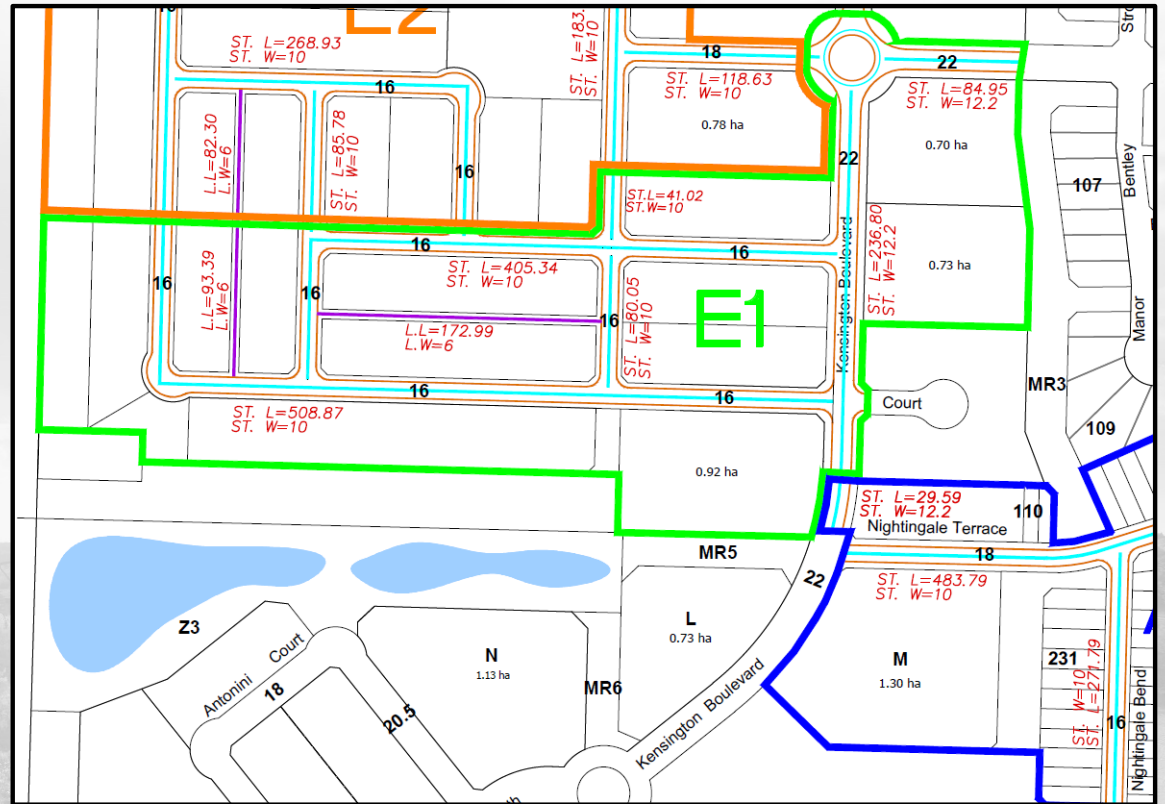
Project Engineer – **Keri Kearns** Inspector(s) – **Jake Mickelson**



Kensington E1 W&S

The next development phase of the Kensington neighbourhood, consisting of the old Yarrow Youth Farmlands.

- Water & Sewer
 - 1.3km SS, WM, StS
 - 138 service connections
- Negotiated RFP
- Post – April 2025
- Start – August 2025
- Complete – Fall 2025



Project Engineer – **Patrick Ngalura** Inspector(s) – **Muhammad Shakeel**

Aspen Ridge E1/E2 Area Grading and E1 W&S

Land preparation for the next two phases of Aspen Ridge, consisting of area grading only, and E1 W&S.

- 14.5 ha (E1) and 13 ha (E2)
- W&S quantity details TBD
- Balanced (E1 to E2)
- Negotiated RFP
- Post – February 2025
- Start – Spring 2025
- Complete – Fall 2025

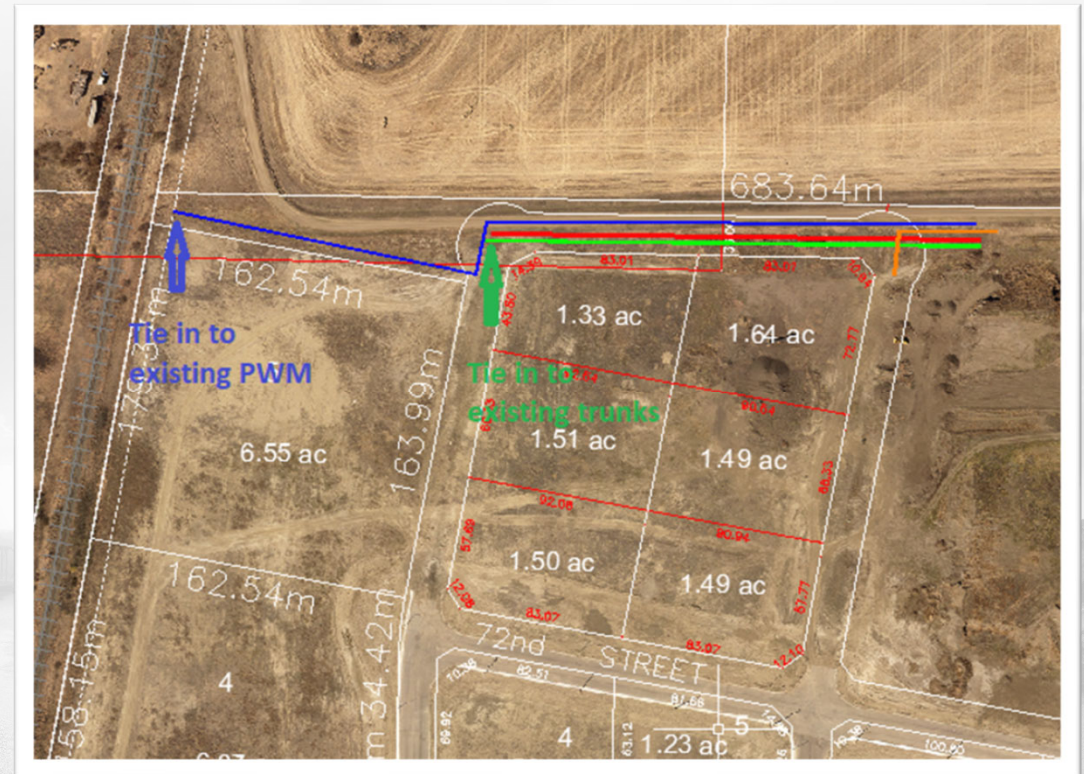


Project Engineer – **Yousef Abdelhadi** Inspector(s) – **Peter Pereverzoff/ Trevor Depeel**

Marquis 11A3 W&S/Roadway

Water and sewer future development north of Saskatoon, and roadways for Marquis 11.

- Water & Sewer
 - 470m SS, WM, StS
 - 670m 600mm PWM
- Roadways
 - 600m Local Road
- High Score RFQ
- Post – Q1 2025
- Start – late Spring 2025
- Complete – Fall 2025

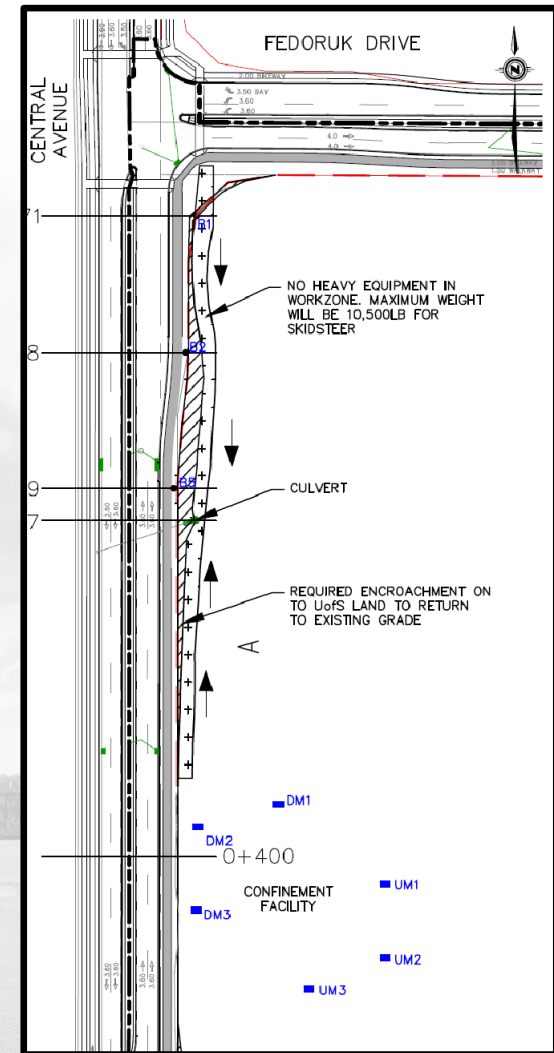


Project Engineer – **Keri Kearns** Inspector(s) – **Anupam Bajpai/ Kyle Pikaluk**

Central Avenue Pathway

Completing the multi-use pathway link between Somers Rd. and Fedoruk Drive.

- 500m Pathway
- French Drain, CB, Culvert
- Environmental Constraints
- High Score RFQ
- Post – Q2 2025
- Start – Q3 2025
- Complete – Fall 2025

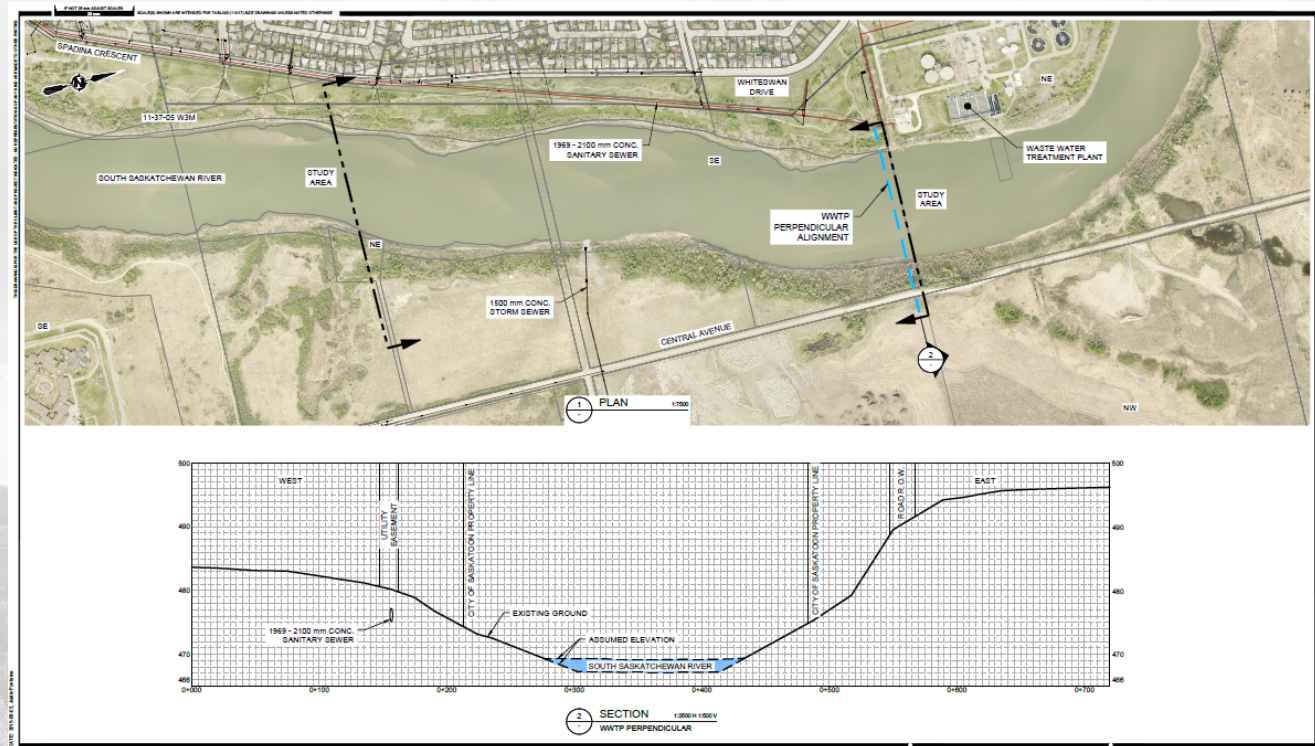


Project Engineer – **Miguel Gaudet** Inspector(s) – **Jake Mickelson**

University Heights Sanitary River Siphon

Providing sanitary sewer services from future UH3 development to the WWTP.

- 2025 Design (design RFP early 2025)
 - Consist of a 3-pipe river crossing with large chambers on either side
 - May include sanitary sewer main connection to Central Ave.
- Procurement TBD
- Post – Late 2025
- Start – Spring 2026
- Complete – Fall 2026

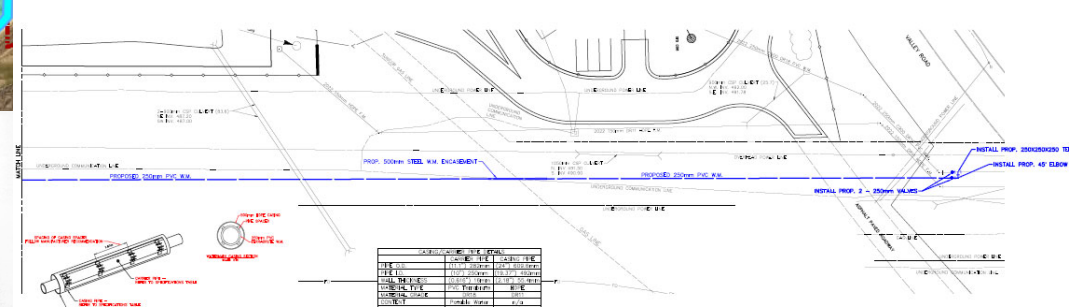
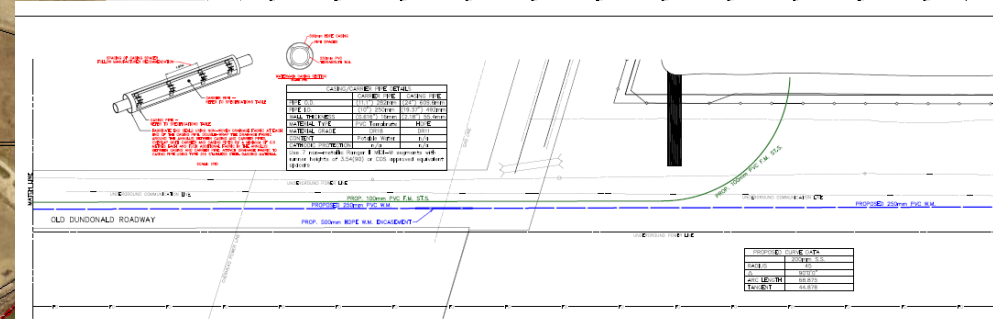
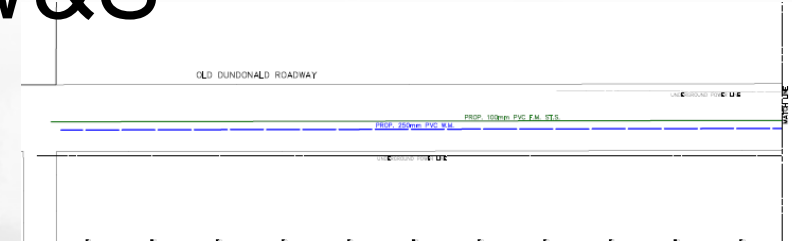


Project Engineer – **Miguel Gaudet** Inspector(s) – **Brett Pelletier**

Future Organics Facility W&S

Providing W&S to the future organics processing facility located south of the MRC.

- Water & Sewer
 - ~950m of 250mm PWM
 - ~620m of 100mm sewer Force Main
 - HDD and open cut
- New outfall discharge point into existing pond
- Major pipe crossings
- High Score RFQ
- Post – Q1 2025
- Start – Spring 2025
- Complete – Fall 2025



Project Engineer – **Patrick Ngalura/ Miguel Gaudet**

Inspector(s) – **TBD**





SASKATOON WATER – ENGINEERING SERVICES

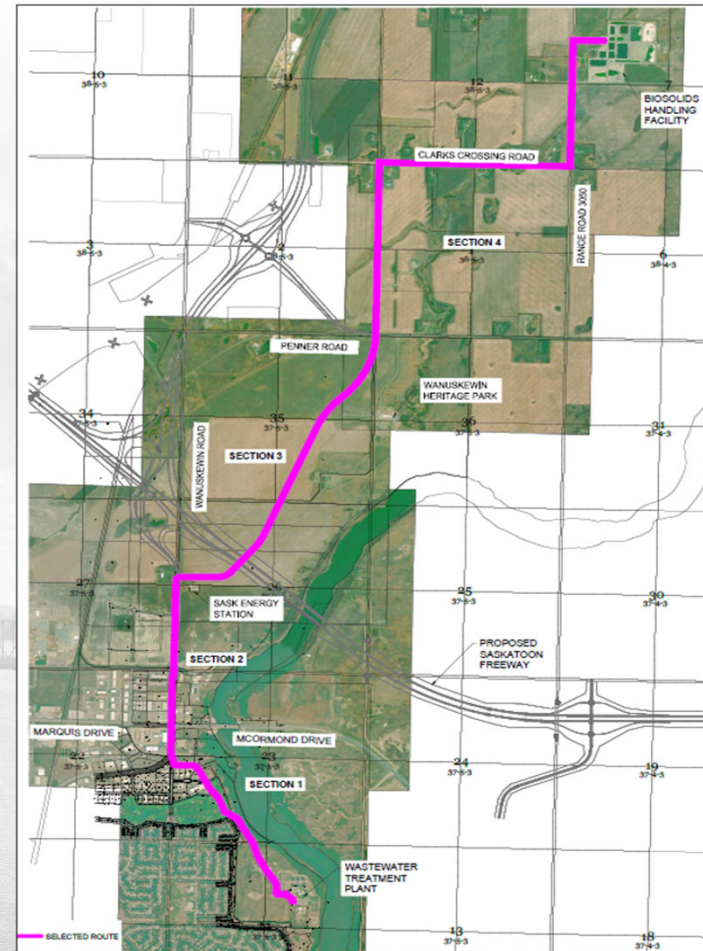
Mitch McMann
Engineering Services Manager
Saskatoon Water



Saskatoon Water – Wastewater Treatment

Biosolids Forcemain Replacement

- Replacement of the existing digester biosolids forcemain with three new forcemains
- Connects the Wastewater Treatment Plant to the Biosolids Handling Facility (11.5 km)
- Construction start Q2-Q3 2025



Saskatoon Water – Wastewater Treatment

58th Street Lift Station Refurbishment

- Replacements
 - Process: pumps, piping, valves
 - Electrical: MCC, VFDs, cabling
- Upgrades
 - New PLC Control System
 - Building: structural, HVAC, lighting
- Construction start Q4 2025



Saskatoon Water – Wastewater Treatment

Plant Mechanical Upgrades

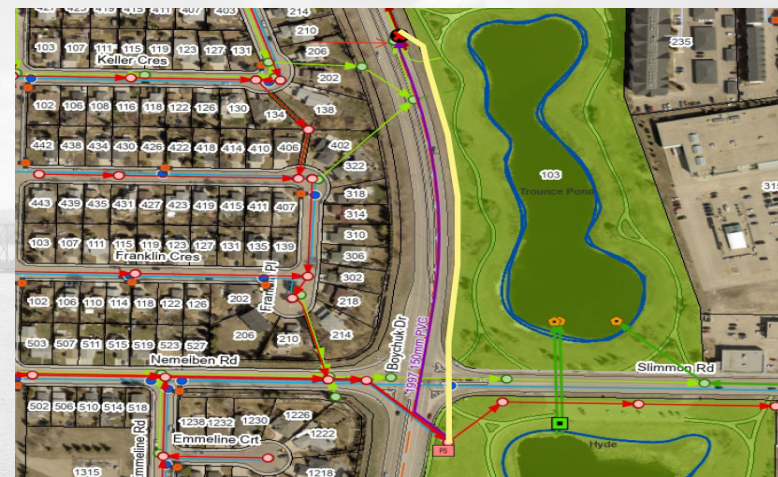
- Variety of upgrades and replacements of assets and equipment including:
 - TEW/DCW piping
 - HVAC
 - Mechanical Sub-systems
- Construction start Q2 2025



Saskatoon Water – Wastewater Treatment

Lakeridge Lift Station Decommissioning and Sanitary Sewer Upgrade

- Decommissioning and demolition of the existing Lift Station
- Installation of a new 350 m long 1200 mm sanitary storage tank connecting to the existing system
- Construction start Q2 2025



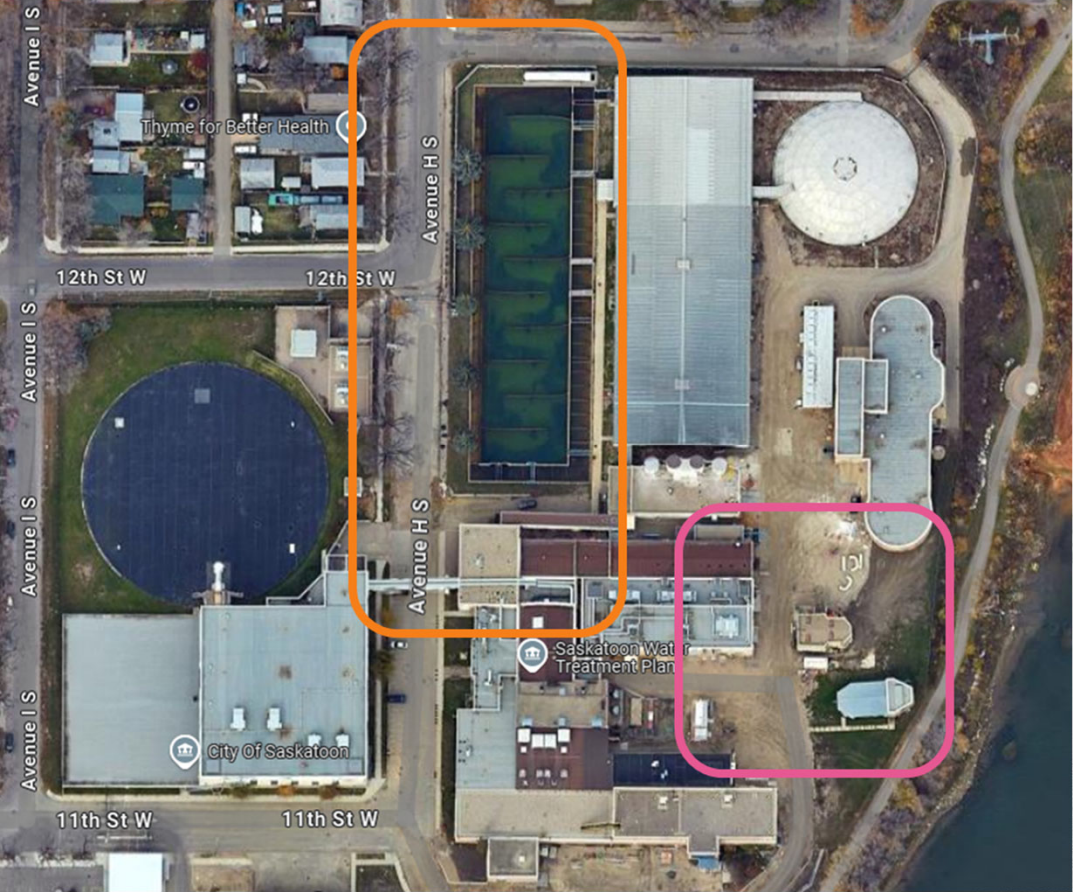


SASKATOON WATER – WATERWORKS PROGRAM

Brodie Thompson
Special Projects Manager
Saskatoon Water



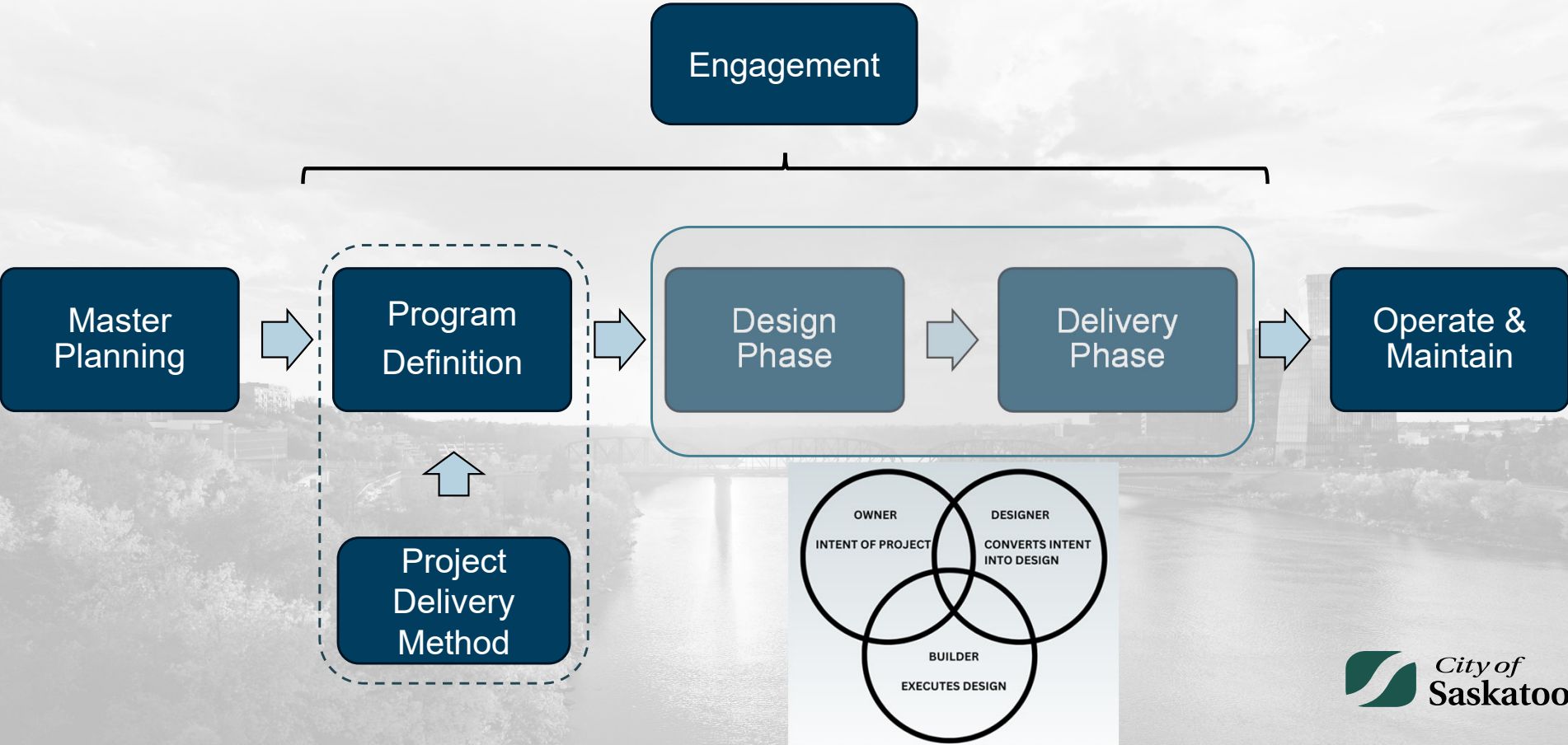
RELIABILITY



EXPANSION



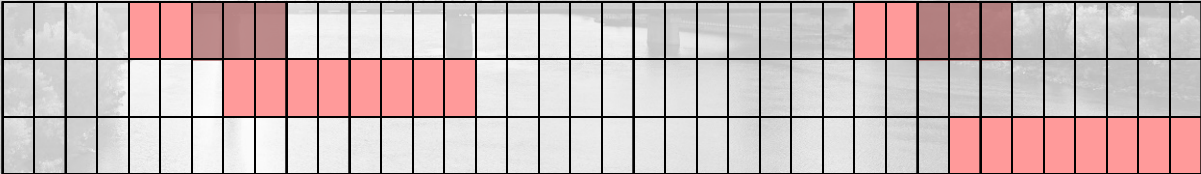
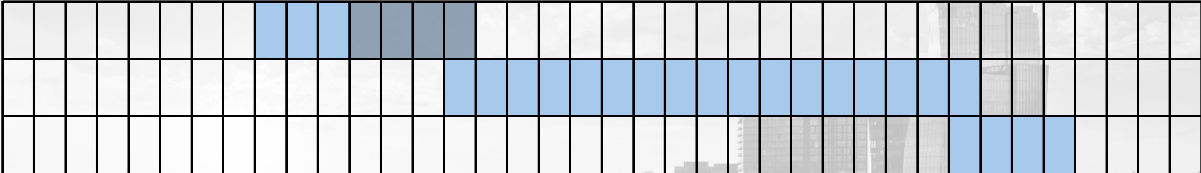
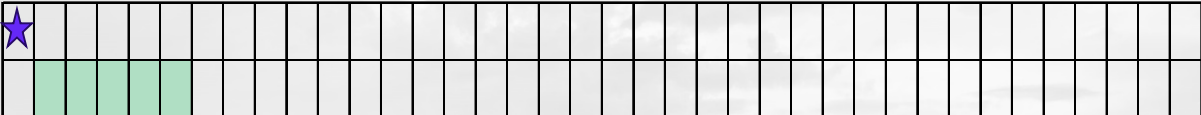
Waterworks Program



Proposed Bundling and Sequencing

| TASK |
|--|
| Program Admin |
| Approval of program definition report |
| Develop contract documents |
| New WTP - CMAR Contract |
| Design |
| Construction |
| Commissioning, turnover and closeout |
| Existing WTP - Two CMAR Contracts |
| Design |
| Construct back yard projects |
| Construct front yard projects |

| 2024 | | | | 2025 | | | | 2026 | | | | 2027 | | | | 2028 | | | | 2029 | | | | 2030 | | | | 2031 | | | | 2032 | | | | 2033 | | | |
|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|
| Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |



What to expect in 2025?

- Market sounding opportunities
- RFQ or RFP for pre-construction services in late 2025
- Construction delivery at existing WTP in 2026
- No more monkeying around






CONTRACTOR ENVIRONMENTAL GUIDELINES

Leslie Greschner
Environmental Coordinator
Sustainability





Contractor Environmental Guidelines

Purpose

To inform contractors of the expected standard for environmental protection for City of Saskatoon contracts.


Scope

Focuses primarily on the regulatory requirements and accepted industry best management practices (BMPs) applicable throughout all stages of a project.

Applies to all Contractors engaged in work for the City of Saskatoon.

Contractor Responsibilities

Before starting work, Contractors must review the contents of the latest version and submit a signed Acknowledgement Form to the Project Designate.

Environmental Management Plan  *City of*
Saskatoon

Sections of the CEG



Resource
Conservation



Fill
Management



Spill
Management



Litter and Waste



Dust
Management



Discovery
Management



Recycling and
Reuse



Noise Control



Environmentally
Sensitive Lands



Surface and
Groundwater



Erosion and
Sedimentation



Site Clearing

What are we working on in 2025-2026?

Update to the CEG

- New Bylaws, updated information, etc.

Erosion and Sediment Control Standards



Contractor
Environmental
Guidelines



Why are we doing this work?

- Update with changing regulations and work happening at the City
- Be clear about City expectations
- Protect the Environment
- Avoid costly incidents
 - Stop work orders
 - Regulatory fines
 - Spill clean up and remediation- \$\$\$
 - Storm pond dredging

BYLAW NO. 9957

The Tree Protection Bylaw, 2024



Where do you come in?

Today

Pre-Construction

Construction

Winter 2025

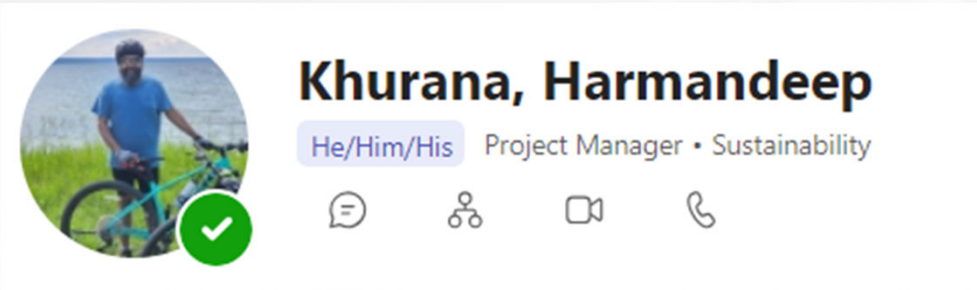
2025
Construction
Forecast

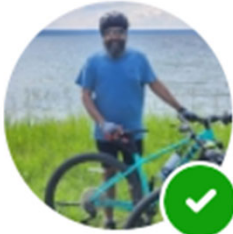




When reviewing this CEG and applying it to your projects...

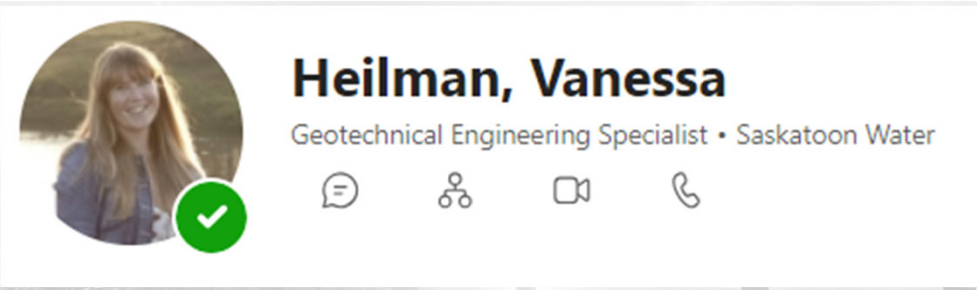
- What improvements can be made?
- What is possible?
 - Erosion and Sediment Control
 - Storm Water Protection
 - Spill Preparedness
- What support will be needed?

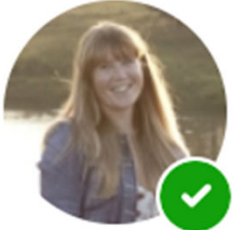




CEG
Workshop

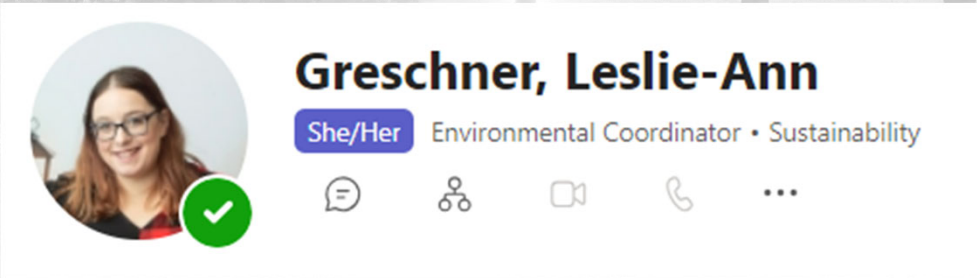
Questions? Contact the Project Team









 **Khurana, Harmandeep**
He/Him/His Project Manager • Sustainability
   



 **Heilman, Vanessa**
Geotechnical Engineering Specialist • Saskatoon Water
   



 **Greschner, Leslie-Ann**
She/Her Environmental Coordinator • Sustainability
    



ORGANICS PROCESSING FACILITY CONSTRUCTION PROJECT

Akinniyi Akinpelu
Senior Project Management Engineer
Water and Waste Operations

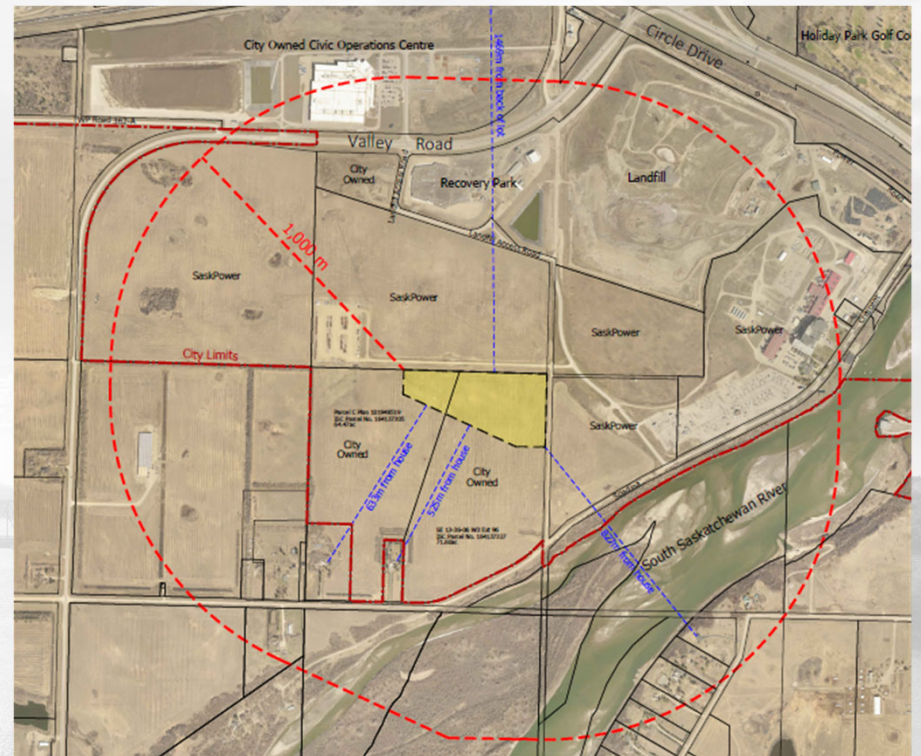


Outline

- Brief Overview of the Organics Facility Project
- Objective / Scope
- Construction Phase
- Timeline
- Questions

Project Overview

- We propose constructing a 40,000-tonne organic processing facility to convert all its source-separated organic (SSO) mix waste (Food and yard material) into high-quality compost material.
- The proposal will utilize an Aerated Static Pile (ASP) composting technology with a cover system.



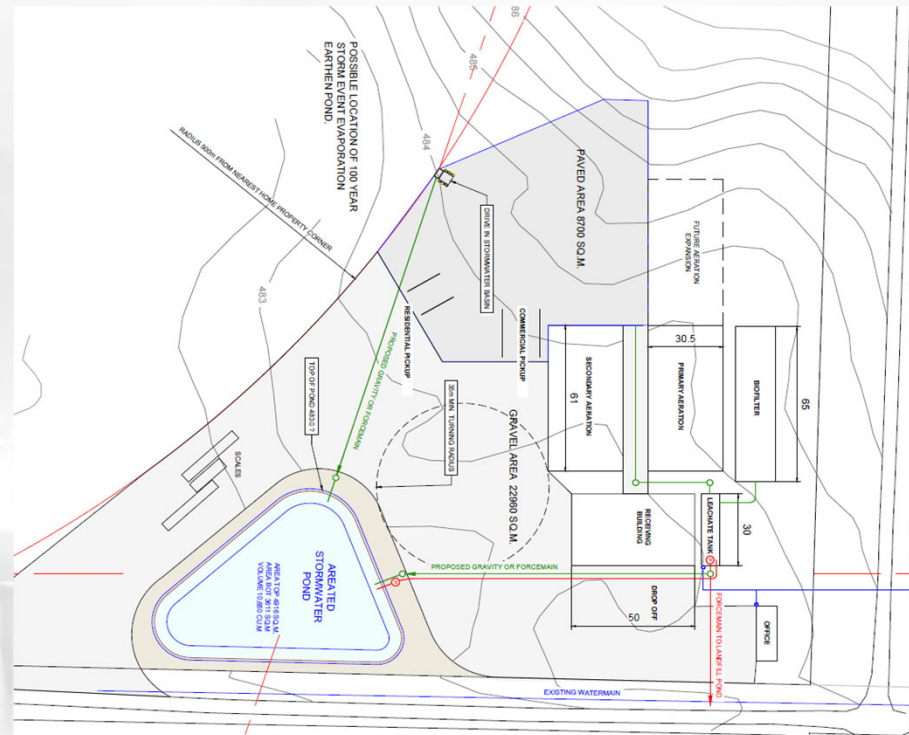
Project Overview

- The facility is expected to be commissioned in Q2 2026.
- Summary
 - Location: 500m from the Material Recovery Center
 - Feedstock: SSO mix food and yard material
 - Capacity: 40,000-tonnes
 - Methodology: Aerated Static Pile Composting Technology
 - Operating Permit Regulator: Ministry of Environment
 - Standard: Alberta Code of Practice for Compost Facilities (January 14, 2022)
 - Finished product to be CCME Category A Compost
 - Budget: \$10 million
 - Startup: June 2026

Scope

The facility will include:

- Enclosed receiving and preparation area
- Active composting area
- Curing area
- Lined storm retention pond
- Compost Storage Area



Construction Phase

- Site Preparation
- Underground Infrastructure for Storm Management
- Utility Connections: Water, Electricity, and Network
- Receiving building with a negative pressure ventilation system
- Processing area consisting of:
 - Static aeration piping and blower system
 - Concrete processing pad
 - Leachate collection system
- Biofilter System
- Curing Area
- Lined Storm Pond
- Supporting Infrastructure: Relocate Existing Scale House and Office

Composting Technology

ASP Composting Technology uses forced air to decompose organic material efficiently and manages odors through a network of aeration systems by using probes or sensors to monitor and track:

- Temperature
- Oxygen levels
- Moisture content and
- Emissions

Timeline

- Issue for Procurement – Q1, 2025
- Construction Contractor Award / Start – Q2, 2025
- Construction Completion – Q2, 2026
- Commissioning and Startup – Q2 - 2026



Link (BRT) PROJECT

Rob Dudiak

Special Projects Manager

Link (Bus Rapid Transit) Project



Link (Bus Rapid Transit) Project



Link (Bus Rapid Transit) Project



Link (Bus Rapid Transit) Project



Link (Bus Rapid Transit) Project

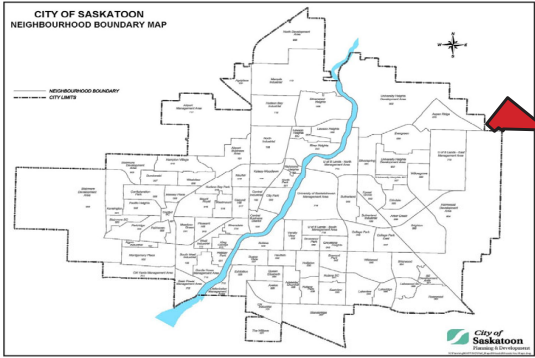




PARKS DESIGN

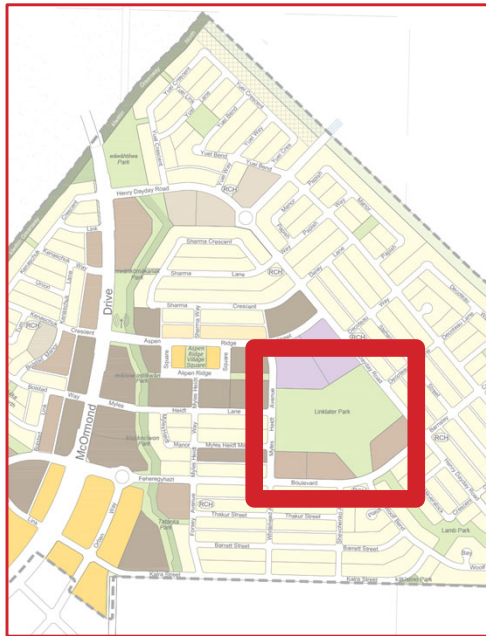
Michael Beresnak
Landscape Architect, Parks





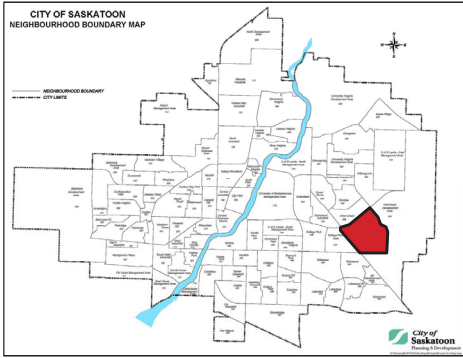
Aspen Ridge

Linklater Park
Description: New park construction



Myles Heidt Avenue



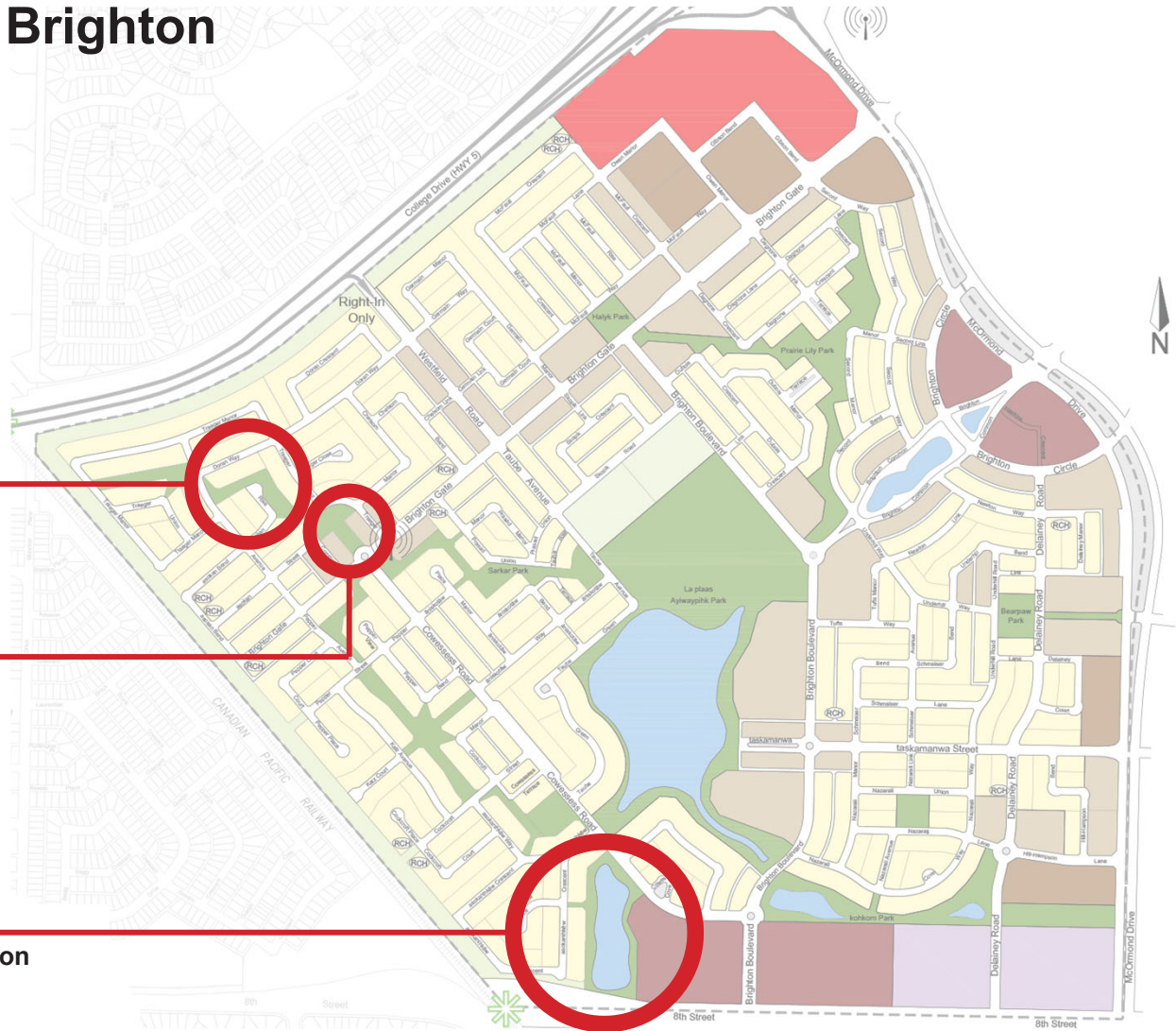


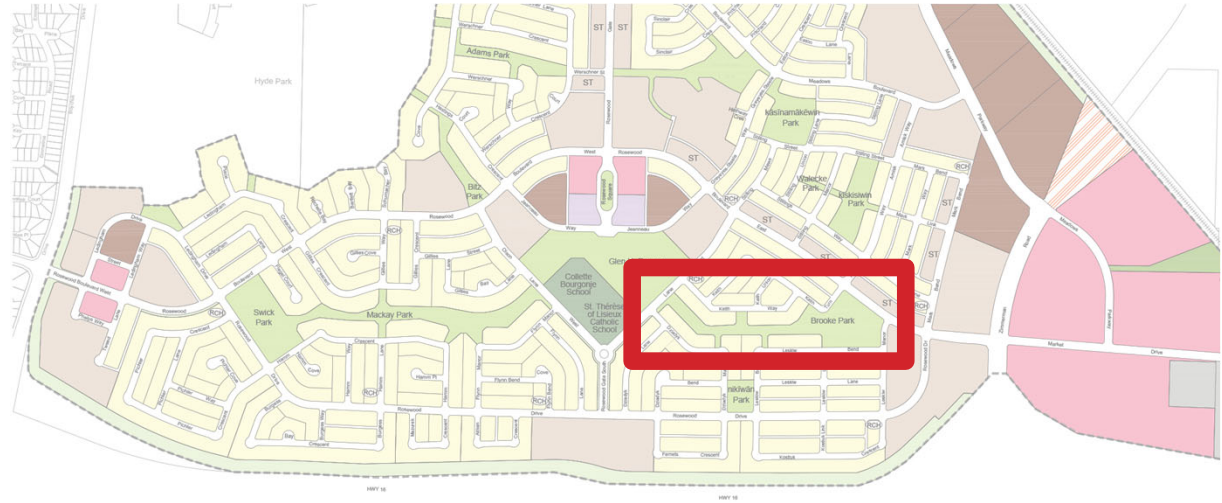
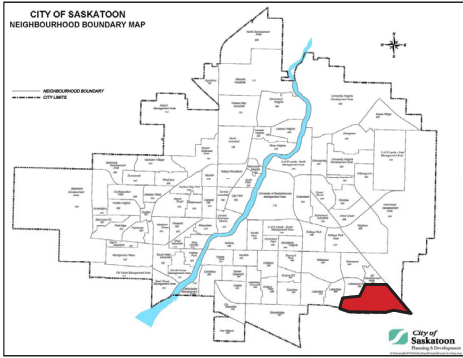
Brighton

MR16 (District)
New park construction

MR12 (Pocket)
New park construction

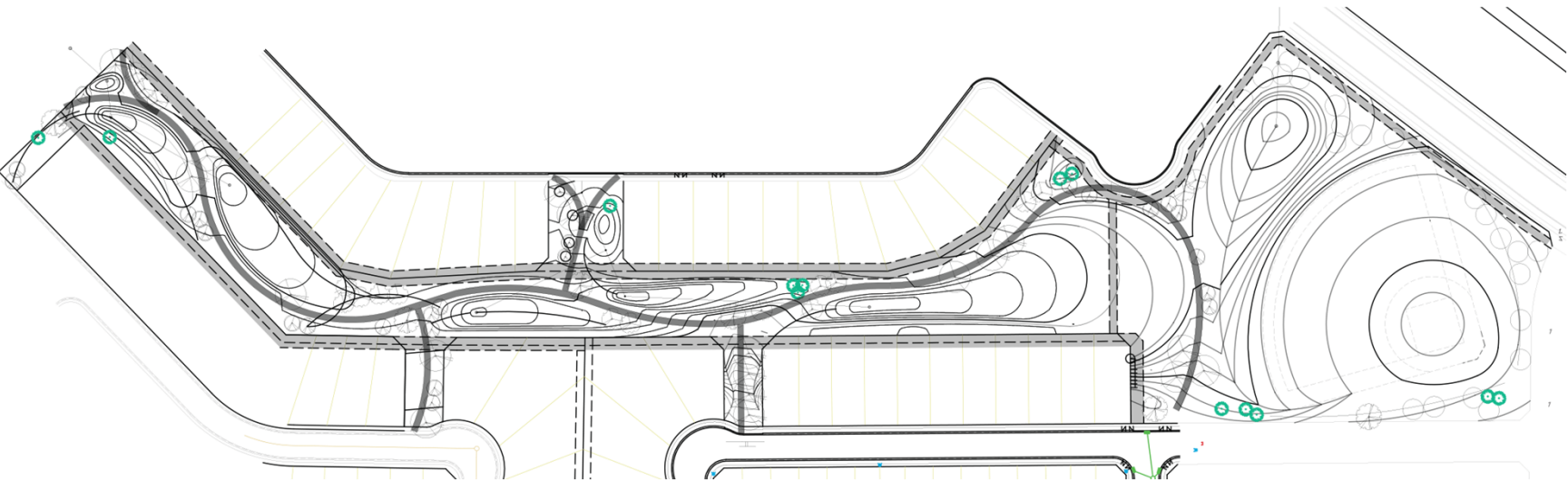
MR23 (District)
Storm pond construction

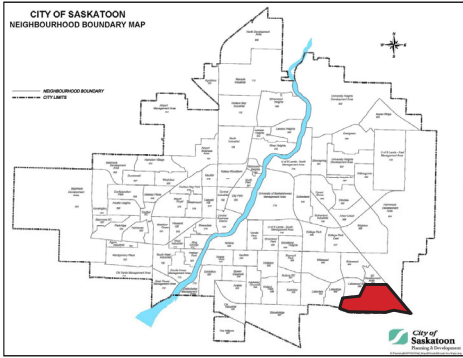




Rosewood

Brooke Park
Description: New park construction

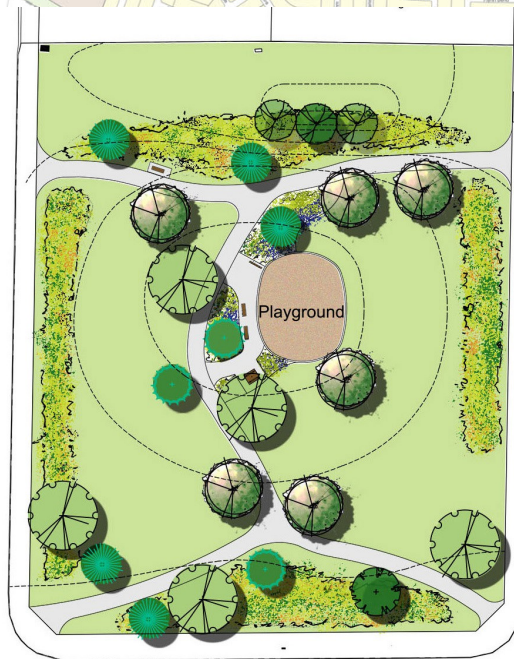
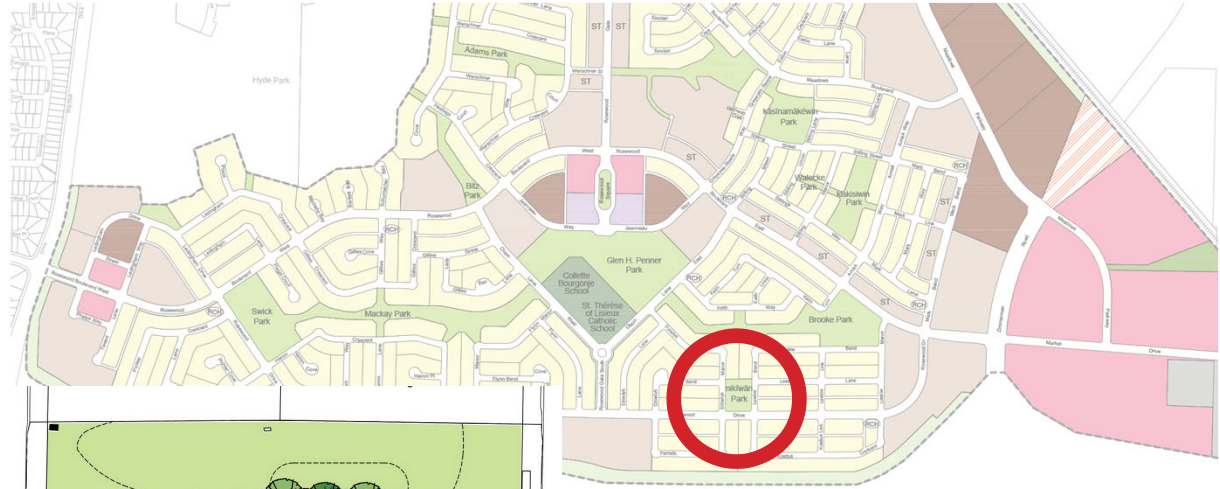


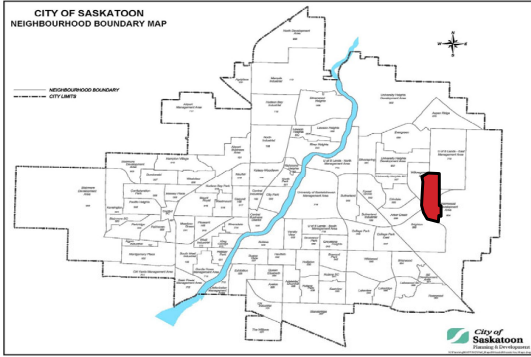


Rosewood

nikiwan Park

Description: New park construction

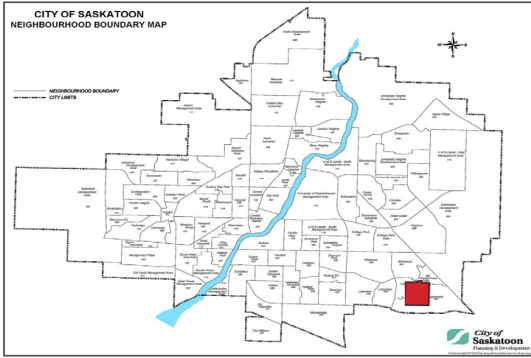




Sutherland

Herbert Stewart Park
Description: Park upgrade





Eastview

Kistikan Park

Description: Park upgrade

