

Edmonton

# Integrated Infrastructure Services

## 2024 CEA Partnering with Industry

January 18, 2024

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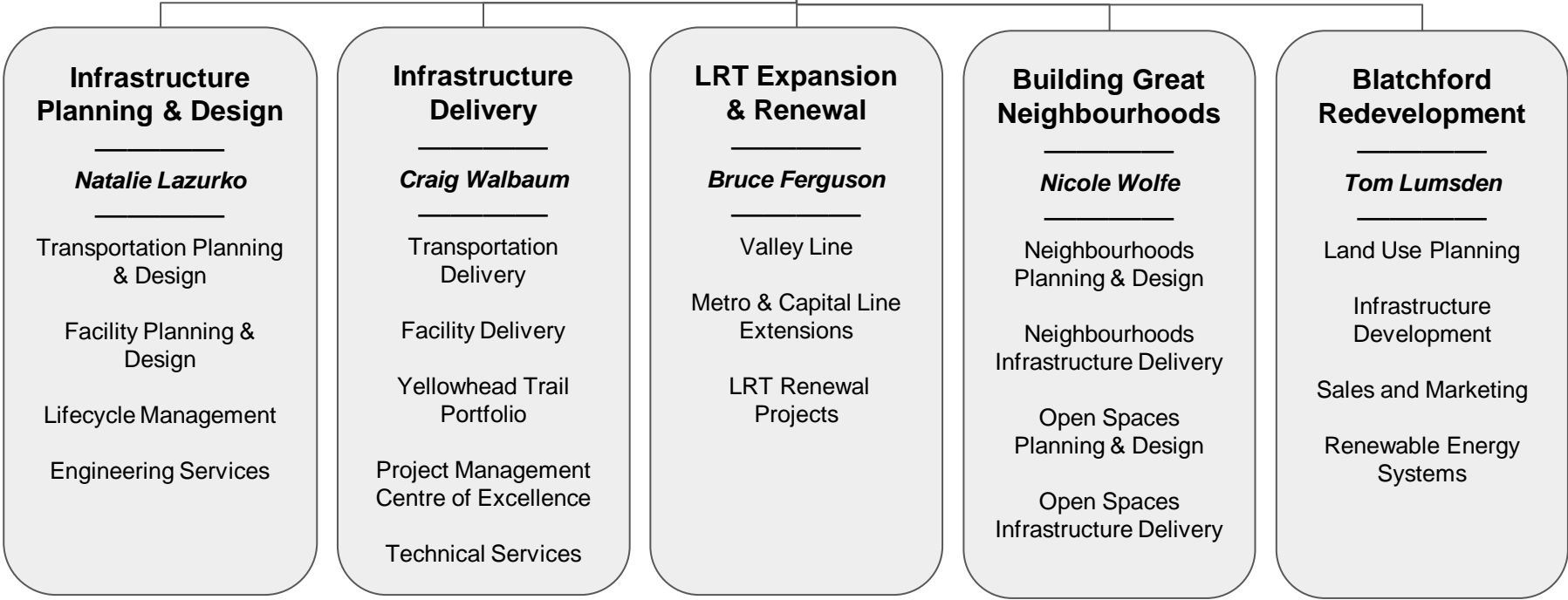
# *Welcome*

The logo for the city of Edmonton, featuring the word "Edmonton" in a white, sans-serif font on a dark blue square background. The background of the entire slide is a dark blue gradient with a faint, semi-transparent image of a modern cable-stayed bridge and a snowy landscape with trees.

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# Integrated Infrastructure Services - Department Structure

**Deputy City Manager**  
*Adam Laughlin*



## 2023 Fall Budget Adjustment Outcomes

- Council approved a 6.6% property tax increase for 2024
- Operating budget more than \$3 billion annually
- Cost-effectiveness: \$8.71 per day for the typical homeowner

### New initiatives and funding:

- Introduction of new buses and extended transit services
- Anti-racism and truth and reconciliation efforts
- Enhanced turf maintenance for public spaces
- Expanded library services in Heritage Valley
- Operating the new Metro Line LRT to the new NAIT Station

## 2023 Fall Budget Adjustment Outcomes

- \$15.8 million to buy 20 new diesel buses
- \$22.9 million to deliver affordable housing
- \$15.3 million for critical renewal projects
- 19 new IIS profiles approved for delivery

Transportation



14 projects

Open Spaces



2 projects

Facilities



3 projects

# Accessibility for People with Disabilities

- City Policy C602
- Corporate Accessibility Plan
  - Accessibility learning sessions for staff and consultants
  - Barrier-free access during construction (detours/closures)
    - Requirement in new construction contracts



# *Facilities*

Presenter: **Shannon Fitzsimmons**

Planning Questions:  
**Shannon Fitzsimmons B.A., B. Arch**

**Director**  
**Facility Planning & Design**  
shannon.fitzsimmons@edmonton.ca

Delivery Questions:  
**Jesse James Banford, P.Eng., GSC, NCSO**

**Director**  
**Facility Infrastructure Delivery**  
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## 2023 Highlights

**31** projects in **Develop**  
valued at over **\$183M**

**38** projects in **Delivery**  
valued at over **\$988M**

**25** are now **In Service**  
valued at over **\$190M**





# Look Ahead - 2024 and Beyond



## **Service Support**

*ETS Fleet Storage and Maintenance Facility, Southeast Transit Garage, Salt and Sand Pile Storage*



## **Service Delivery**

*Valley Zoo Enclosure Renewal, Fort Edmonton Park Renewal, Coliseum Demolition, OH & S Leisure Centres*



## **Safety and Security**

*Walker and Cumberland Fire Stations*



## **Sustainability**

*Heat Pumps and Fuel Switching Projects*

## 2024 Program Overview

- Three Integrated Project Delivery projects in progress
- Progressive Design Build Contract Development
- Lessons learned and partnering sessions
- Standing Arrangement for Housing Projects



# *Transportation*

Planning & Design Questions:  
**Matthew Ivany**

**Acting Director, Transportation Planning and Design**  
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Delivery Questions:  
**Sam El Mohtar**

**Director, Transportation Infrastructure Delivery**  
Sam.Elmohtar@edmonton.ca

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# 2023 Highlights - Transportation Planning and Design

99 Street (Jasper to 102 Ave)  
Streetscape



81 Ave (Gateway to Calgary Trail)  
Reconstruction

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# 2023 Highlights - Transportation Planning and Design



# 2024 and Beyond

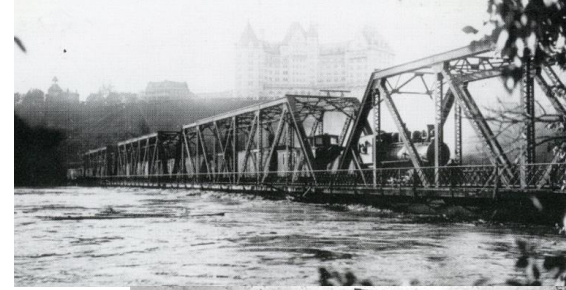
## ***2024-2026 Opportunities:***

- Active Transportation Network Expansion - Design, Delivery (\$100 million)
- Mass Transit Planning:
  - Mass Transit Routes B1 and B2 - Planning (\$5.5 million)
  - Transit Priority Measures - Planning, Design, Delivery (\$7.1 million)
- Jasper Avenue (109 to 102 Street) Preliminary Design
- Streetlight designs for renewal projects
- Public engagement and communications support for renewal and growth projects

# 2024 and Beyond

## 2024-2026 Opportunities:

- Active Transportation Network Expansion
  - Planning, Design, Delivery (\$100 million)
- Mass Transit Planning:
  - Mass Transit Routes B1 and B2 - Planning (\$5.5 million)
  - Transit Priority Measures - Planning, Design, Delivery (\$7.1 million)
- Chinatown Infrastructure Improvements to 97 Street and 107A Avenue
- Jasper Avenue (109 to 102 Street) Preliminary Design
- High Level Bridge - Planning, Design, Delivery (\$200 million)
- Bridge Renewal - Planning, Design, Delivery (\$ varies)
  - Dawson Bridge, Wellington Bridge, Low Level Bridges, 17 Street (over YHT), Beverly Bridge
- 99 Street (Jasper Ave to 102 Ave) Streetscaping - Delivery
- Streetlight designs for renewal projects
- Public engagement and communications support for renewal and growth projects



# *Yellowhead Trail Freeway*

Presenter: **Kris Lima, Director, Yellowhead Trail Portfolio**

Questions: **Kris Lima, Director, Yellowhead Trail Portfolio**  
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# Yellowhead Trail Freeway

**156 Street to St. Albert Trail** - \$125M Construction Value



**Fort Road Widening** - \$105M Construction Value



**Noise Attenuation Wall** - \$12M Construction Value



# 2024 and Beyond

**St. Albert Trail to 97 Street** - *Estimated Construction Value >\$350M Value*



# Open Spaces

Presenter: **Suzanne Young**

Planning & Design Questions:  
**Suzanne Young**

**Director, Open Spaces Planning and Design**  
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Delivery Questions:  
**Andy Grant**

**Director, Open Spaces Infrastructure Delivery**  
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# 2023 Highlights

## Planning & Design

- Warehouse Park
- Beaver Hills House Park/Michael Phair Park
- Clarke Stadium Artificial Turf
- Trail renewals, stairs, playgrounds & sports fields

## Delivery

- Millwoods Artificial Turf
- Playgrounds
- Trails
- Community and District parks
- Trees and Naturalization



# 2024 Program & Beyond

## Planning & Design

- Edgemont School/Park
- Windermere District Park
- Castledowns District Park
- River Valley Trails
- Queen Elizabeth Park
- Rundle Park
- Snow Valley Slope Remediation
- North East River Valley Park
- Playground renewals
- Trees, trees and more trees



# 2024 Program and Beyond

## Delivery Tenders

- Warehouse Campus Park
- Beaver Hills House Park/Michael Phair Park
- Northern Lights and South Haven Cemeteries
- 107 Avenue Park
- EWMC Water Supply & Distribution Upgrade
- Clarke Stadium Artificial Turf
- Trail renewals, stairs, playgrounds & sports fields
- Trees, trees and more trees



# *Neighbourhoods*

Presenter: **Ryan Kirstiuk**

Planning & Design Questions:  
**Ryan Kirstiuk**

**Director,**  
**Neighbourhoods Planning and Design**  
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Delivery Questions:  
**Steve Schmidt**

**Acting Director,**  
**Neighbourhoods Infrastructure Delivery**  
steve.schmidt@edmonton.ca

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# 2023 Highlights - Neighbourhoods Planning & Design

## Project Highlights

- Four projects completed Design Development (Checkpoint 3)
- Hosted 55 engagement events
- Conversations with more than 1,300 citizens

## Major Neighbourhoods Standing Arrangement (MaNSA)

- Standing Arrangement Finalized in 2023
- 2026 Neighbourhood bundles awarded in September

Project types included in MaNSA:

- Neighbourhood Reconstruction
- Larger/Bundled Alley Renewal
- Other localized Transportation Projects



*Gariepy Neighbourhood Renewal*



# 2024 Look Ahead - Neighbourhoods Planning & Design

## Major Neighbourhoods Standing Arrangement (MaNSA)

Anticipated 2024 Project Assignments:

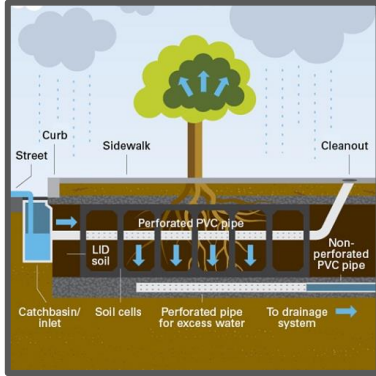
- Q1 2024: 3 projects/bundles
- Q3 2024: 3 projects/bundles
- Project locations are being finalized
- Subject to funding availability



*132 Avenue Roundabout*

# 2024 Look Ahead - Neighbourhoods Planning & Design

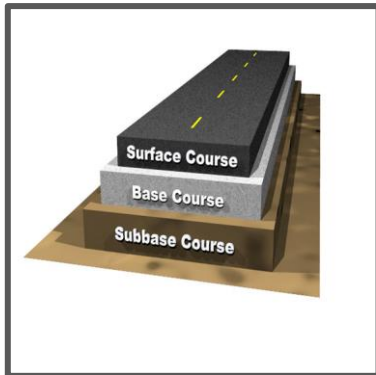
## New Elements in Neighbourhood Renewal Consulting Contracts



LID



Streetlighting



Pavement Design



Active Transportation Wayfinding

# 2024 Look Ahead - Neighbourhoods Planning & Design

## Minor Neighbourhoods Standing Arrangement (MiNSA)

- Replaces the Minor Transportation Rehabilitation Standing Arrangement (Expired in 2023)
- Currently reviewing submissions
- Award in Q1 2024

## Project types included in MiNSA:

- Alley Renewal
- Neighbourhood Pavement Renewal
- Other Transportation Rehabilitation

## Anticipated 2024 Project Assignments:

- Seven Pavement Renewal projects
- Four Alley Renewal projects
- Subject to funding availability



*Dunluce Shared Street*

# 2024 Overview - Neighbourhoods Infrastructure Delivery

## Continuing Projects

- Neighbourhood Reconstruction
  - McCauley
  - Baturyn
  - Ottewell
  - Pleasantview
- Alley Renewal
  - Kilkenny
  - Royal Gardens / Rideau Park
  - Pollard Meadows / Daly Grove / Crawford Plains
- Collector Reconstruction
  - 132 Ave West - 97 St to 127 St
- Northeast Roads Program

## New Tenders

- Neighbourhood Reconstruction
- Alley Renewal
- Collector Reconstruction

# *Blatchford*

Presenter: **Ryan Kirstiuk**

Questions: **Tom Lumsden, Development Manager**  
tom.lumsden@edmonton.ca

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# 2023 Accomplishments



*LRT construction continued*



*Residents continue to move into the community*



*New BuildeNew Builders have joined the community*



*Blatchford Utility*

# Future Planning



*Servicing stage 6*

# *LRT Expansion & Renewal*

Presenter: Jarek Karpijok

Questions: Jarek Karpijok, Director, LRT Infrastructure Projects  
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# LRT Expansion & Renewal

LRT is a key part of Edmonton's mass transit network. It's a proven, high-capacity, efficient and environmentally friendly way to move people.

- LRT Expansion and Renewal is a vital component of City Plan implementation, and gradually shifting our mobility system from one predominantly focused on individual travel by car to one that prioritizes a variety of more sustainable travel options as Edmonton continues to grow to a city of 2 million (Big City Move: Greener As We Grow).



Valley Line Southeast LRV

## 2023 Highlights

- Existing Capital Line Improvements
  - Various facility and trackway projects
  - Central Station Elevator upgrades; Government Center Electrical upgrades
- Metro Line Phase 1 (NAIT to Blatchford)
  - Construction completed in December 2023
  - NAIT/Blatchford Market station to open January 2024
- Capital Line Early Works underway
- Valley Line West Construction
  - Significant structure work: 30% of 87 Ave guideway spans erected, Stony Plain Road Bridge, Stations and Facility structures
  - Civil work fronts in majority of the alignment
- Valley Line Southeast open for passenger service - November 2023



## 2024 and Beyond

### **Metro Line Northwest:**

- Metro Line Phase 1 (NAIT to Blatchford)
  - Demolition of existing temporary NAIT station in 2024
- Metro Line Phase 2 (Blatchford to Castle Downs)
  - Land acquisition underway in preparation for future LRT extension

### **LRT Renewal Projects:**

- Public Transit Renewal 2023-2026
  - \$32 million program budget
  - Example projects include
    - At-grade Crossing Improvements (University Ave; 95 Street)
    - Metro Line Drainage / Concrete Track Improvements
    - Emergency Generator, Switchgear and TPSS replacements
- Coliseum Bridge (118 Avenue) Rehabilitation
- Harbin Gate
- 103A Avenue Underground Pedway

## 2024 and Beyond (continued)

### Capital Line South Extension:

- **Key Milestones/Activities**
  - Light Rail Vehicle (LRV) procurement process expected to launch in Q1 2024 with contract award in 2025
  - Design-Build contract award May 2024
  - Construction of the visual screen fence in spring 2024
  - Design-Build, Detailed Design & Construction is scheduled to start Q2 2024
  - Light Rail Vehicle (LRV) delivery to commence in Q2 2028
  - All Light Rail Vehicle (LRV) Final Acceptance Q2 2030
  - Early works construction at 23 Avenue is scheduled until August 2024
  - Utility Relocations will continue until 2024

### Valley Line Southeast/West:

- Valley Line Southeast is currently in operation
- Valley Line West
  - Marigold Infrastructure Partners continues infrastructure construction over the entire alignment
  - Hyundai Rotem Company to complete LRV design and begin manufacturing in 2024 - first LRV delivery expected mid-2025

## 2024 Program Overview

### Metro Line NW:

- Demolition of temporary NAIT station
- Repurposing of the station area - adding architectural features, completing trail connections and preparing site for public art installation

### LRT Renewal Projects:

- Coliseum electrical room waterproofing
- Harbin Gate
- At-grade crossing repairs (University Ave/95 Street)
- Metro Line track drainage/concrete repairs
- Central Station Burrow Cafe repurposing
- Corona/MacEwan Station safety improvements
- 129 Avenue crossover
- 129 Avenue crossing improvements
- BAY-COR tunnel track rehab
- Belvedere relay system replacement



Night Shot of Blatchford Utility Complex

## 2024 Program Overview (continued)

Capital Line South Extension:



Lift Station Completion: June 2024



Launch Shaft Tunnel Operation



Aerial View of 111 St/23 Ave Site

## 2024 Program Overview (continued)

### Valley Line West:

- 87 Avenue over Anthony Henday Drive LRT bridge girder erection in January 2024
- LRT Stop and Track work on 102 Ave between 102 Street and 107 Street
- Stony Plain Road Bridge over Groat Road to reopen
- 87 Avenue Elevated Guideway segmental girder installation to continue in the spring



Elevated Guideway piers on 87 Ave

# *Corporate Procurement & Supply Services*

Presenter: **Jennifer Smid**

Questions: **Jennifer Smid, Director, Procurement**  
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# Corporate Procurement & Supply Services Update:

## Bond Forms Modernization

- CoE Bond Forms Updated (Bid, Performance and Labour & Material)
- Recommendation for Suppliers to use new forms starting Jan 1, 2024
- Use as standard forms starting 2025

## Sustainable Procurement

- Implementation of new enhanced Social, Indigenous and Environmental Procurement Criteria and Contract Requirements
- Development of Community Benefits Framework

## Supplier Performance Management (SPM)

- Improve current program by reviewing framework, updating evaluations, training materials and reporting on SPM

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# Thank you

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