Northwest LRT – NAIT to Northwest City Limits Study www.edmonton.ca/LRTProjects

Welcome Information Sessions June 9 & 10, 2010



Proposed Agenda

- Meeting Purpose
- LRT Planning
- The Recommended Corridor
- Public Involvement Update
- Progress on the Edmonton LRT Network
- Screening and the Recommended Corridor
- Next steps
- Public comments & questions



Meeting Purpose

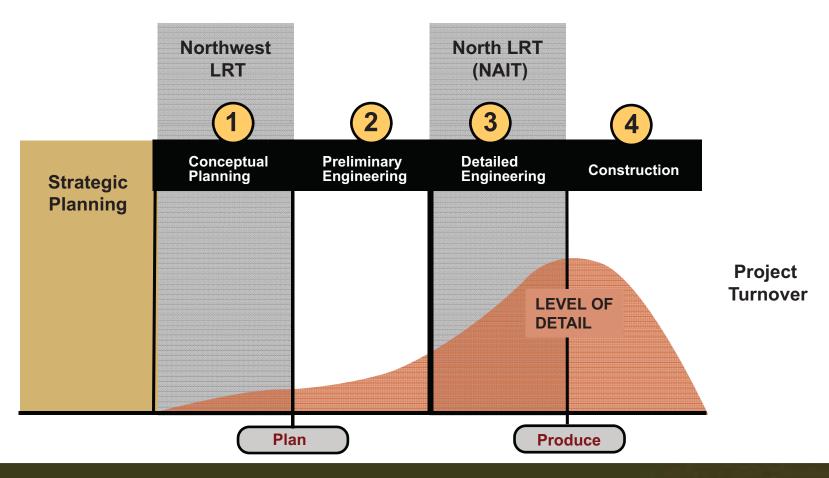
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Our Team's Commitment to You for Tonight

- To provide you with information about the LRT Planning process and recommended corridor
- Answer questions and clarify information, so you are as informed as possible moving forward to the City Council public hearings



LRT Planning





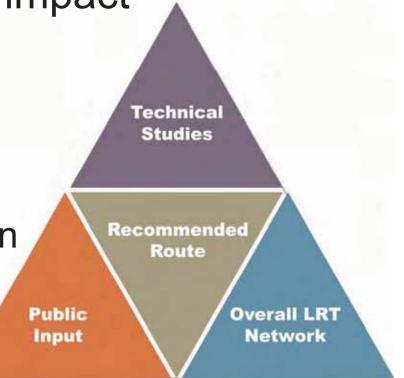
Critical Components

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Three components that will impact the decisions about the LRT Connection

The overall LRT Network Plan

- Technical Analysis
- Public Input





Council Approved Corridor Screening Criteria

Category	Weighting
Land Use/Promoting Compact Urban Form	4
Movement of People/Goods	3
Feasibility/Constructability	2
Parks, River Valley, and Ravine System	2
Social Environment	2
Natural Environment	2
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Corridor Evaluation Criteria (Level 2)

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Land Use/Promoting Compact Urban Form

- Existing transit centres/park and ride
- Existing/future activity centres/destinations
- Land available with potential for redevelopment
- Existing/future population density
- Existing/future employment density
- Existing/future mix of housing/zoning/land use types
- Number of large development proposals under review or construction
- Existing land-use plans/bylaws support development/redevelopment

Movement of People/Goods

- Percentage within existing public/rail right-of-way
- Projected ridership
- Estimated cost/rider
- Projected travel time
- Potential changes in roadway capacity within existing transportation corridors
- Includes existing/future bicycle/pedestrian facilities
- Potential for park and ride locations

Feasibility/ Constructability

- Estimated capital/operating cost per kilometer
- How much of route is at grade (and gradeseparated)?
- Complexity to extend route in future
- Proximity to LRT maintenance facility
- Number of at-grade crossings

Corridor Evaluation Criteria (Level 2)

www.edmonton.ca/LRTProjects

Parks, River Valley & Ravine System

- Impacts/benefits to parks/open space/river valley access
- Need to acquire public land for the route

Social Environment

- Need for private property acquisition
- Impact on local property values
- Ability to avoid, minimize, or mitigate neighbourhood impacts
- Potential for noise/vibration impacts
- Adjacent known cultural resource/heritage sites
- Student population near stations
- Number of low-income, no car, senior households near stations

Natural Environment

- Impact on riparian habitat
- Number of river/stream crossings
- Potential for disruption due to construction

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What is the Recommended Corridor?



Project Purpose Statement

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To establish an LRT connection between the Downtown and Northwest Edmonton



Recommended Corridor



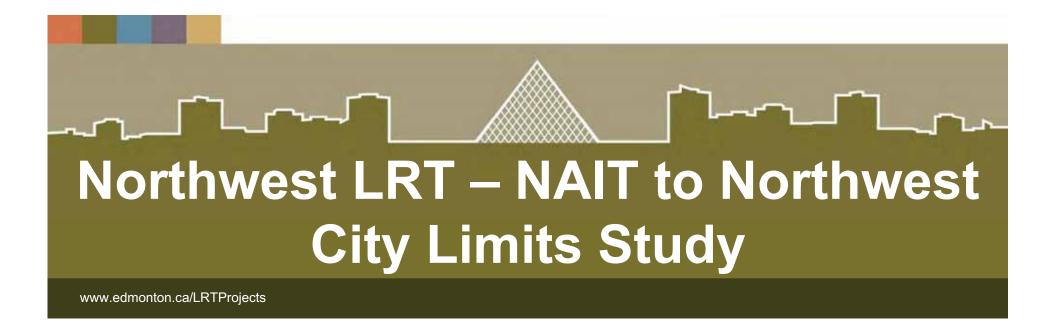
- New Park and Ride near Campbell Road/St. Albert Trail
- 153 Avenue
- **Castle Downs**
- 113A Street
- Griesbach
- **Grand Trunk Park**
- New connection over/under CN rail yards and Yellowhead Trail
- **ECCA** potential redevelopment
- Connection to future NAIT station (North LRT)



Benefits & Trade Offs

- There are impacts
- Worked towards a balance
 - Minimize impacts while creating improved mobility options
- Potential positive transportation and land use effects
- New connection across CN rail yards and Yellowhead Trail
- Minimize property acquisition by removing:
 - service roads
 - traffic lanes
 - on-street parking
- Constrained Right-of-Ways





Public Involvement Update What We Heard



Process

- Online questionnaire (Feb 10-March 3)
 - 1,199 participants.
- Face-to-face interviews with stakeholders
- 2 public workshops (March 23/24)
 - 142 attendees
- Online Discussion Forum (March 22-April 19)
 - 30 registered participants, 1,052 comments read





Overall Findings

- LRT expansion has great potential to serve both the region and the local population
 - Must serve key destinations (residential, commercial, &future development)
- A holistic approach to planning is needed
 - Traffic congestion is already a key concern
 - Integrate with other transportation modes
 - Mitigations required to address impacts to parks/recreation areas, property, and concerns about security/safety





Feedback

Corridor	Positives	Challenges
113 A Street	Provides balance in regional access and service to	Significant property acquisition
	Edmonton communities	Park impacts (dog park)
	Access to shops, parks and recreation centres strongly	Traffic impact near Grand Trunk
	desired	Safety/security
	Potential for route to encourage higher density	
	development and green communities (Castledowns,	
	Griesbach)	
127 Street	LRT could help address traffic congestion	Most prevalent theme – concern about traffic
	Connection to Via Rail Station a benefit	congestion (127 Street too busy now – don't want
	118 Avenue would support revitalization	to lose lanes)
	•LRT could rejuvenate the area (property acquisition)	Significant property acquisition
		Noise/vibration impacts
		Residential/community disruption
St. Albert Trail	Quickest and most direct option – great access for St.	Most prevalent theme – option does not serve
	Albert residents and commuters	Edmonton communities
	Potential to reduce traffic congestion on St. Albert Trail	Missed urban opportunities – few/no opportunities
	Potential to provide service to St. Albert Trail	for higher density development along corridor
	businesses	Impact on goods movement corridors







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Defining the Long Range Network



Public Transportation - Strategic Objective 5.1

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"The City will pursue expansion of the LRT to all sectors of the city with a goal to increase transit ridership and transit mode split, and spur the development of compact, urban communities."

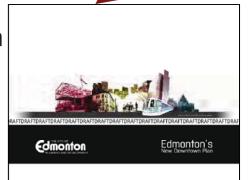




Edmonton's Planning Hierarchy

www.edmonton.ca/LRTProjects

- The Way Ahead (Strategic Plan) City Vision
- The Way We Grow (Municipal Development Plan)
- The Way We Move (Transportation Master Plan)
- Integrated Transit & Land Use Policy Framework
- Edmonton's Downtown Plan





THE WAY

EDMONTON INTEGRATED TRANSIT
& LAND USE POLICY FRAMEWORK



Integrated Transit & Land Use Framework

www.edmonton.ca/LRTProjects

 Outlines land use and community investment recommendations near LRT nodes and along major bus corridors.









Station Typology

www.edmonton.ca/LRTProjects











Residential Centre Stations

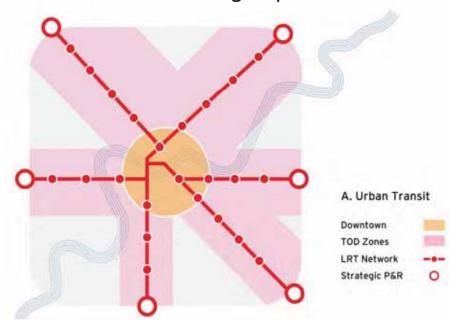


LRT System Style

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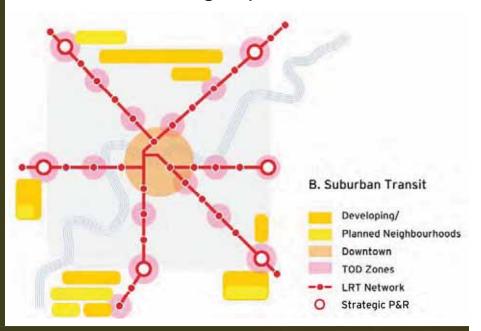
URBAN STYLE LRT

- 400m to 800m stop spacing
- 20-30 km/h average speed



SUBURBAN STYLE LRT

- 1000m to 2500m stop spacing
- 40 km/h average speed





LRT - Urban Style

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Closer station spacing

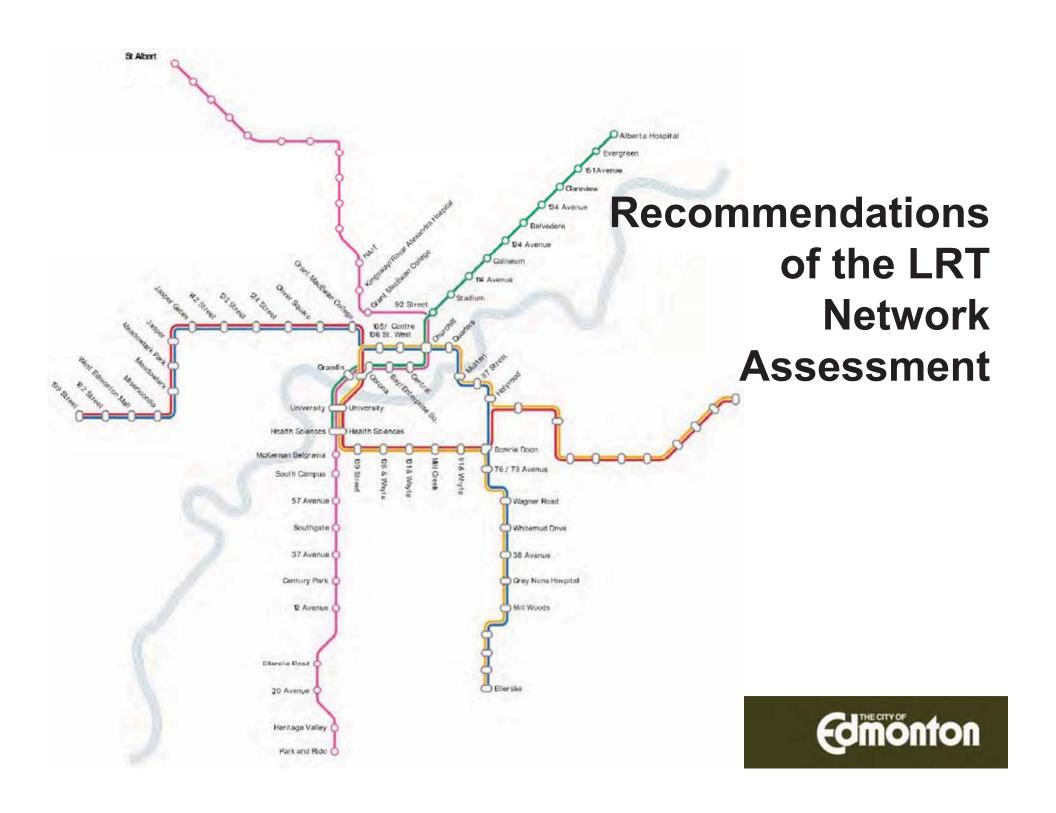
LRT is part of the street

 Easy access for passengers

 LRT mixes with pedestrians







LRT Projects - Status

	Concept Planning		Droliminom	Detailed	
	Corridor Definition	Alignment Definition	Preliminary Engineering	Detailed Engineering	Construction
South LRT (Health Sciences to Century Park)	✓	✓	✓	✓	✓
North LRT (Downtown to NAIT)	✓	✓	✓	Fall 2010	
South LRT (Century Park to Ellerslie Road)	✓	✓	Spring 2010		
Northeast LRT (Clarview to Gorman)	✓	✓	Spring 2010		
Southeast LRT (Downtown to Mill Woods)	✓	End 2010			
West LRT (Downtown to Lewis Estates)	✓	End 2010			
Northwest LRT (NAIT to Northwest Edmonton)	Summer 2010	End 2011			



The Potential of LRT

Transit Oriented Development Video



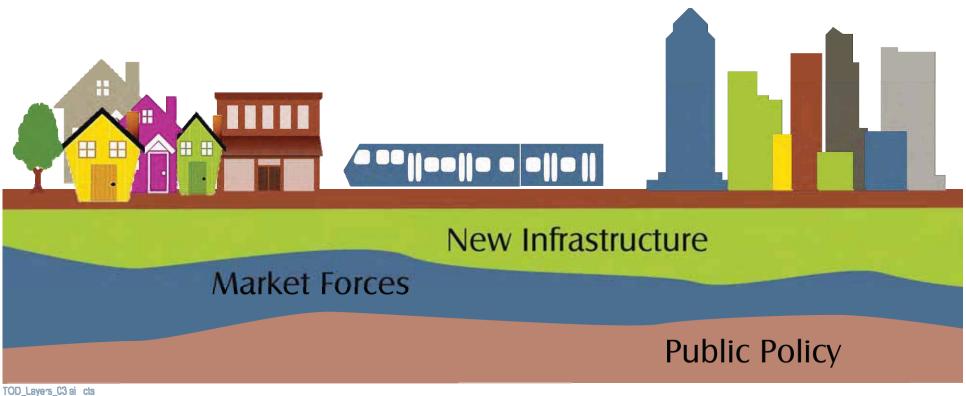
The Transit-Land Use Connection www.edmonton.ca/LRTProjects

Transit access affects location decisions





Transit Alone Is Not Enough





What Actions Are Needed?

- ✓ Steady, sustained, consistent policy
- ✓ Direct growth to priority areas for momentum / critical mass
- ✓ Balanced, but consistent emphasis on the plan when conflicts arise
- ✓ Consider impacts of other transportation investments that may not support the plan
- ✓ Consider impacts of other land use decisions in the city or region that may not support the plan

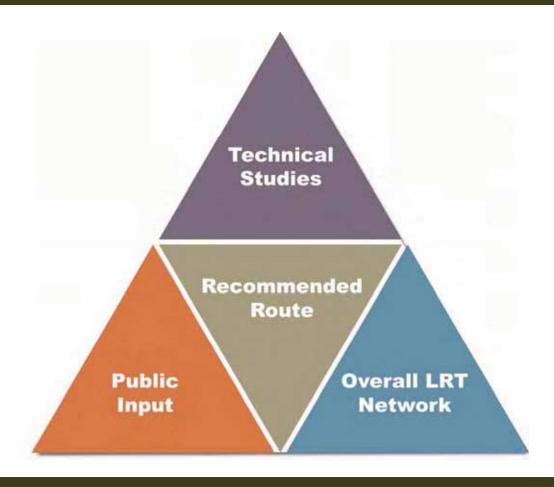


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Screening & Details of the Recommended Corridor



LRT Corridor Planning Process





Purpose Statement

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Establish an LRT connection between Downtown and Northwest Edmonton

The guiding principles supporting this purpose include:

- Maintain consistency with the Transportation Master Plan (TMP),
 Municipal Development Plan (MDP), the City's strategic direction, LRT
 System Network Plan, St. Albert's TMP and integrated land use
 framework, as well as the Capital Region Plan
- Shape land use to promote a more compact urban form
- Maximize use of existing transportation corridors
- Connect existing and future activity centers
- Increase transit system effectiveness
- Promote economic development/redevelopment
- Respect neighborhoods
- Respect parklands, river valley and ravine system
- Maximize cost effectiveness
- Provide opportunities for future system expansion



Alternatives Analysis Process

www.edmonton.ca/LRTProjects

Process & Criteria Development Level 1 **Conceptual Evaluation** Level 2 **Detailed Evaluation Preferred Alternative**



167 Avenue Landing 153 Avenue 137 Avenue 127 Avenue Yellowhead Trail City Centre May Airport 25 26 118 Avenue NAIT STATION Telus World of Spence Royal Albrandor 124 Street MacEwan 102 Avenue

Corridor Options



Landing 127 Avenue Yellowhead Trail 118 Avenue NAIT STATION Telus World of Spirnor Royar Albumbar 107 Avenue MacEwan 102 Avenue

Corridor Options



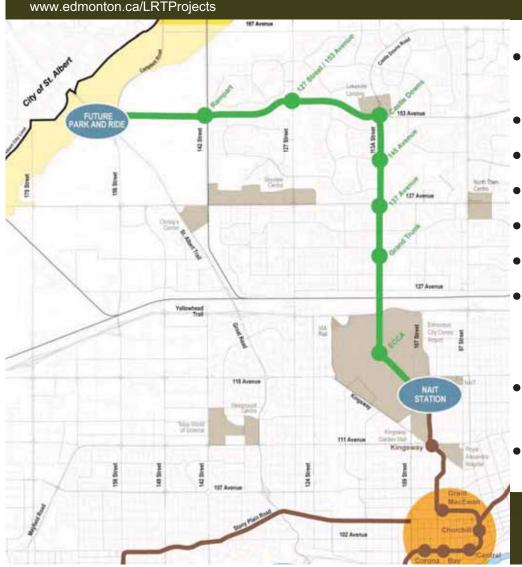
Landing 153 Avenue North Town 137 Avenue 127 Avenue Yellowhead Trail NAIT STATION Telus World of Science Kingsway Royal Alaxandra 124 Street 109 Street MacEwan 102 Avenue

Corridor Options





Recommended Corridor



- New Park and Ride near Campbell Road/St. Albert Trail
- 153 Avenue
- **Castle Downs**
- 113A Street
- Griesbach
- **Grand Trunk Park**
- New connection over /under CN rail yards and Yellowhead Trail
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Social Environment	2
Natural Environment	2
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"Givens", Benefits, & Trade Offs

- Comparison of corridors
- Defines the corridor (future phases define details within the corridor)
- Corridor serves regional and local trips
- There are impacts
- Worked towards a balance
 - Minimize impacts while creating improved mobility options
- Potential positive transportation and land use effects
- New connection across CN rail yards and Yellowhead Trail
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153 Avenue 137 Avenue STATION Texas World of Science 111 Avenue 102 Avenue

Corridor Options



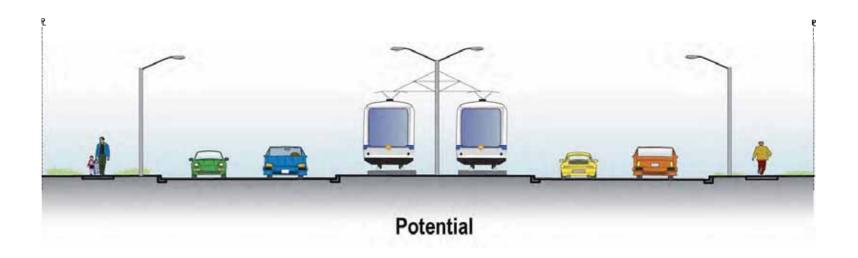
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Recommended Corridor Flyover



Recommended Corridor - Section 1

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Looking west on future 153 Avenue extension



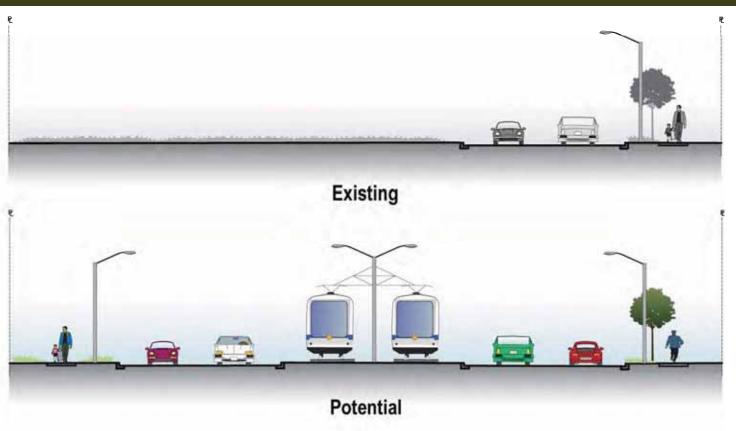


Looking west on future 153 Avenue extension



Recommended Corridor - Section 2

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Looking west on 153 Avenue at 135 Street

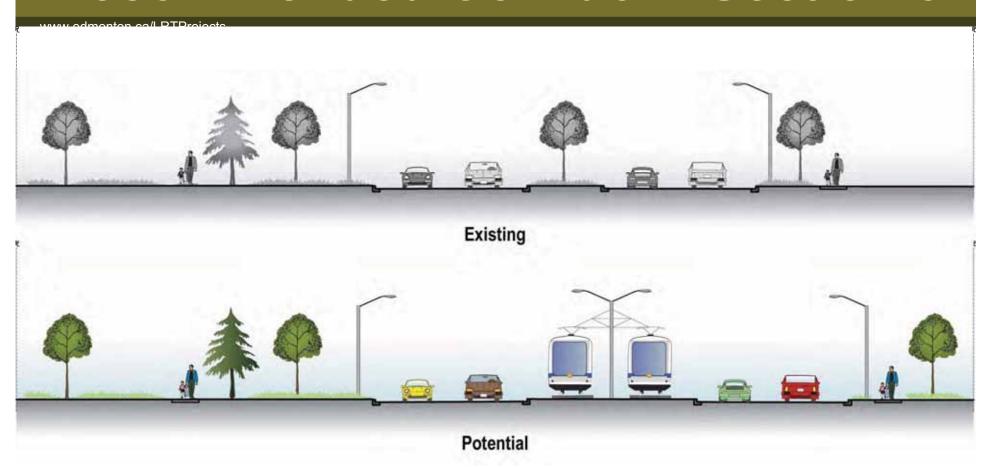




Looking west on 153 Avenue at 135 Street



Recommended Corridor - Section 3

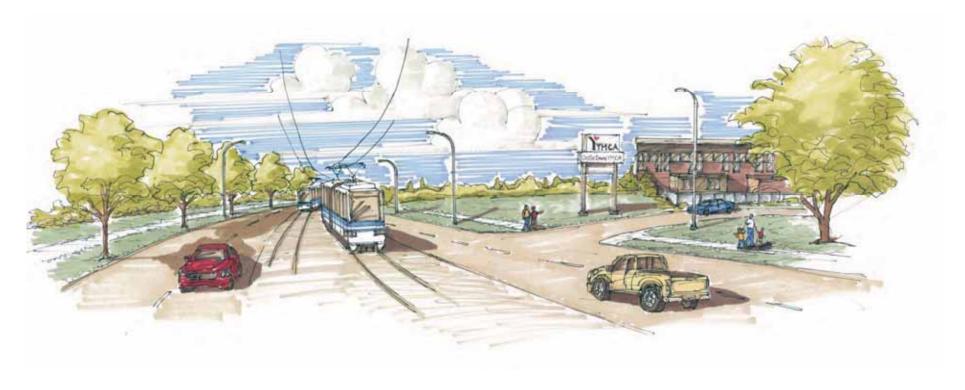


Looking west on 153 Avenue at 119 Street



Recommended Corridor – Image A

www.edmonton.ca/LRTProjects



Looking west on 153 Avenue at 116 Street



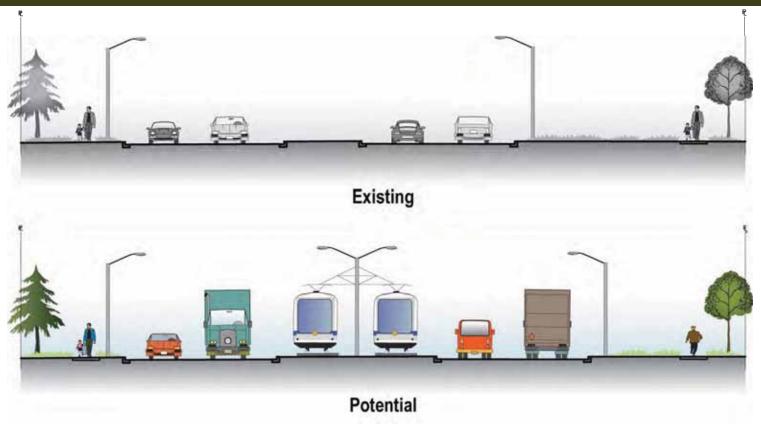


Looking west on 153 Avenue at 119 Street



Recommended Corridor – Section 4

www.edmonton.ca/LRTProjects

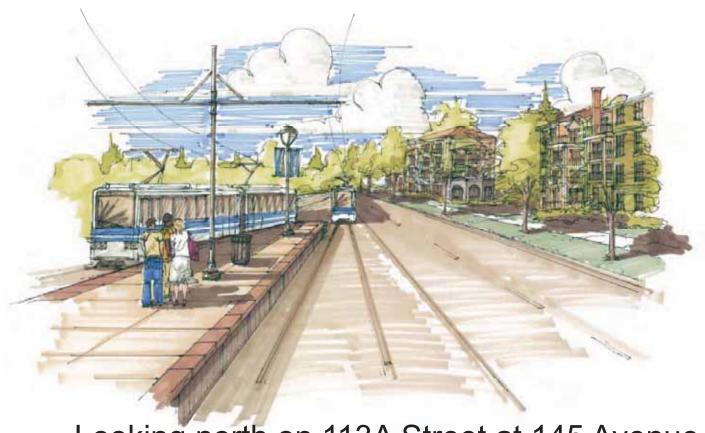


Looking north on 113A Street at 142 Avenue



Recommended Corridor – Image B

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Looking north on 113A Street at 145 Avenue



www.edmonton.ca/LRTProjects

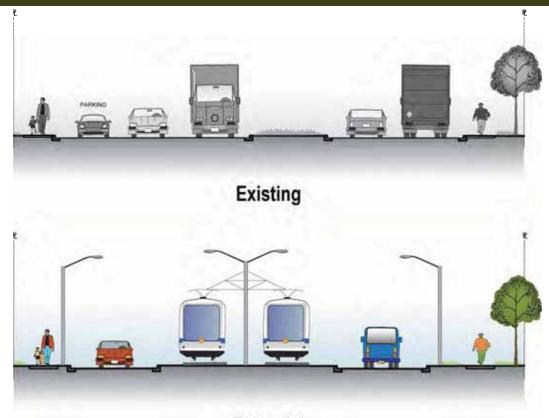


Looking north on 113 A Street at 145 Avenue



Recommended Corridor – Section 5

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Potential

Looking north on 113A Street at 133 Avenue



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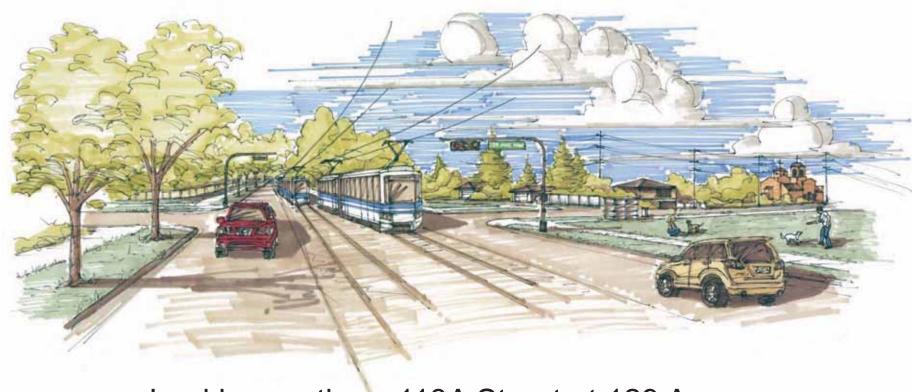


Looking north on 113 A Street at Grand Trunk Park



Recommended Corridor – Image C

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Looking north on 113A Street at 129 Avenue



www.edmonton.ca/LRTProjects



Looking south towards ECCA



Next Steps

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Corridor Definition



- Path for the NW LRT
- Comparative analysis
- General impacts and benefits

Alignment Definition



- Detailed layout of the NW LRT
- Track location (center or side)
- Exact station locations
- Roadway configurations
- Property acquisitions

Engineering



- Preliminary engineering
- Final engineering

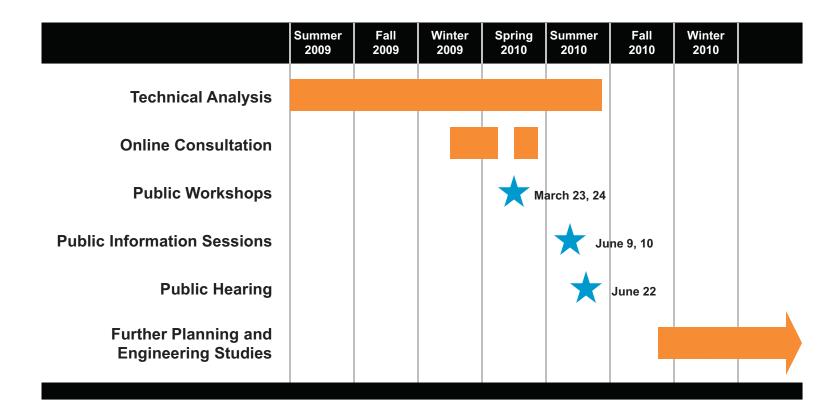
Construction



- Construction
- Conventional, design build, etc.



Next Steps





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Question and Answer Session



Question and Answer Session "Ground Rules"

- 2 minutes for each participant to ask a question or make a comment
- One follow-up question (1 minute)
- Will recognize 4 people for each round of questions; persons with microphones will go to those participants to ask their questions
- 3 rounds of questions
- Additional questions from same person not recognized until no new participants are wanting to ask questions
- Questions and responses will be recorded; please use microphones



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THANK YOU!

