West, Southeast and Downtown LRT Concept Plans

www.edmonton.ca/LRTProjects

Non Statutory Public Hearing

December 8, 2010

THE CITY OF Edmonton

LRT Policy & LRT Network

www.edmonton.ca/LRTProjects

Brian Latte

Branch Manager

Transportation Planning

THE CITY OF Edmonton

Public Transportation - Strategic Objective 5.1

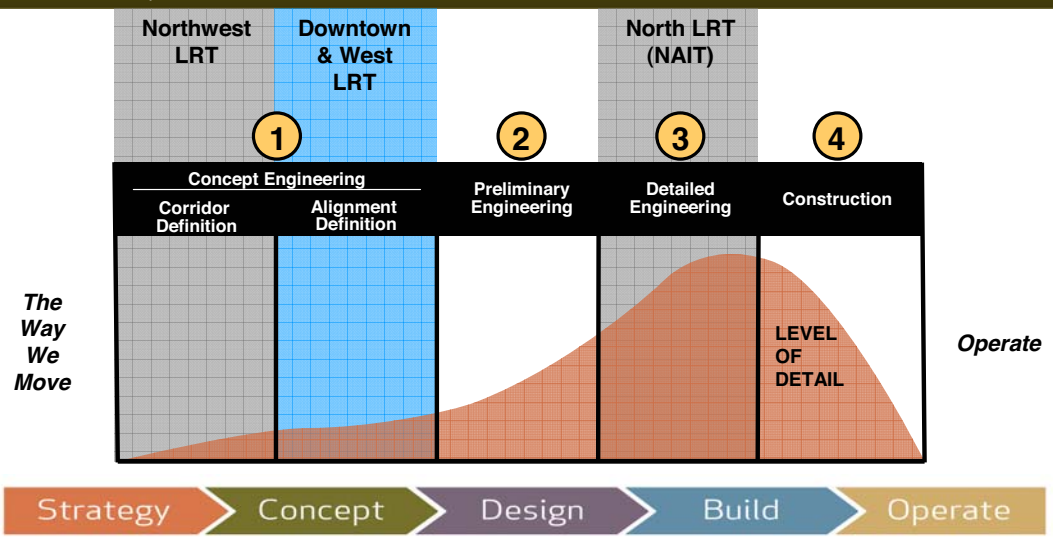
www.edmonton.ca/LRTProjects

"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

LRT Project Stages

www.edmonton.ca/LRTProjects



Edmonton

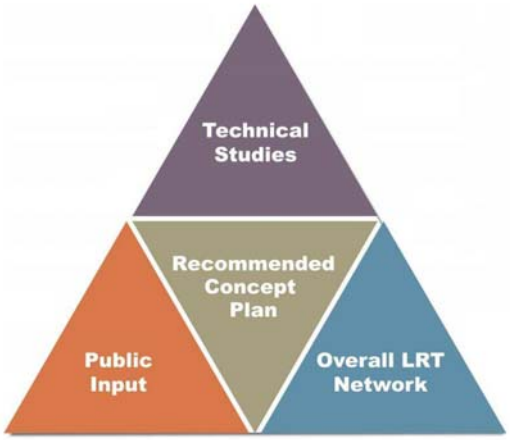
	Concept Planning		Preliminary Engineering	Detailed Engineering	Construction Complete & Opened
	Corridor Definition	Alignment Definition			
South LRT (Health Sciences to Century Park)	✓	✓	✓	✓	✓
North LRT (Downtown to NAIT)	✓	✓	✓	End 2010	End 2014
South LRT (Century Park to Ellerslie Road)	✓	✓	✓		
Northeast LRT (Clarview to Gorman)	✓	✓	✓		
Southeast LRT (Downtown to Mill Woods)	✓	End 2010			
West LRT (Downtown to Lewis Estates)	✓	End 2010			
Downtown LRT	✓	Spring 2011			
Northwest LRT (NAIT to Northwest Edmonton)	✓	2012			
Central Area Circulator	TBD	TBD			
East LRT (Downtown to Sherwood Park)	TBD	TBD			

Critical Components

www.edmonton.ca/LRTProjects

Three components that impact LRT recommendations:

- The overall LRT Network Plan
- Technical Analysis
- Public Input



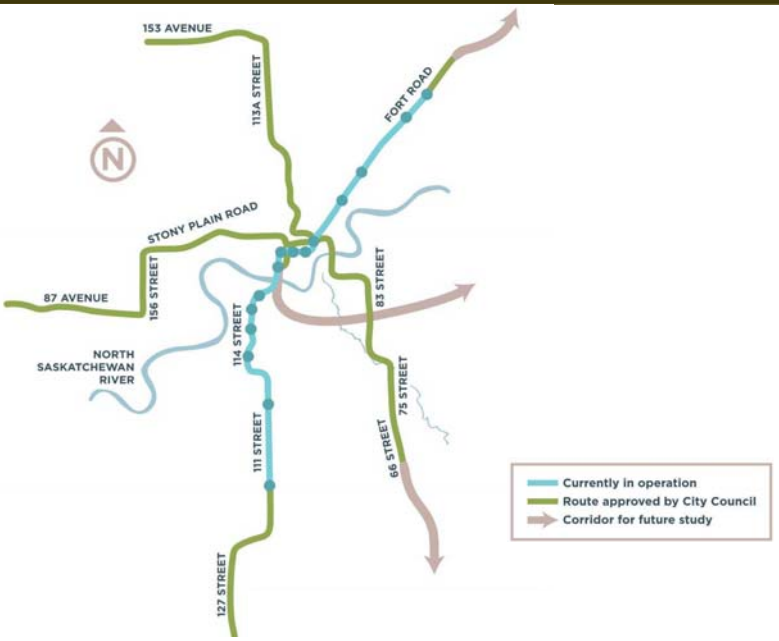
Concept Plan

www.edmonton.ca/LRTProjects

- Next step after Corridor approval
- Defines major infrastructure requirements, including:
  - LRT Alignment within corridor (center or side running)
  - Station Locations
  - Neighbourhood, business and pedestrian access
  - Further refinement of cost estimates

The Way We Move - LRT Network

www.edmonton.ca/LRTProjects



Urban-Style Low-Floor LRT

www.edmonton.ca/LRTProjects

- Operates on the surface
- Electrically powered from overhead lines.
- Low-floor vehicles
- Low-level platforms
- Integrated LRT stops in the Downtown streetscape
- Integrated facilities for pedestrians and bikes
- Urban design, redevelopment, TOD opportunities
- Encourage higher density and mixed use

THE CITY OF Edmonton

Urban-Style Low-Floor LRT

www.edmonton.ca/LRTProjects

Transit-Oriented Development (TOD) Guidelines

www.edmonton.ca/LRTProjects

- Work will continue on the establishment of TOD Guidelines and Plans for areas with proposed LRT corridors.

THE CITY OF Edmonton

LRT Concept Plans

www.edmonton.ca/LRTProjects

Adam Laughlin

Director Facility Planning

Transportation Planning

THE CITY OF Edmonton

West, Southeast and Downtown LRT

www.edmonton.ca/LRTProjects

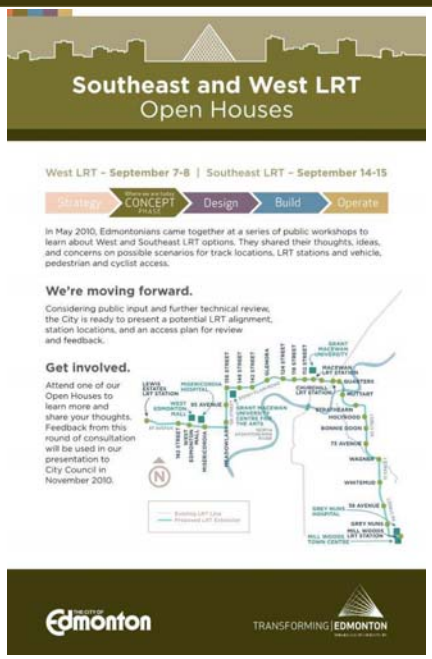
Public Involvement Process & Update

THE CITY OF Edmonton

Public Involvement Process

www.edmonton.ca/LRTProjects

- Process built on LRT corridor public involvement process
- 74 Events with over 2,900 participants
- Location specific workshops to get input on alignment options, station locations, and access management
- Additional meetings held with:
  - community leagues
  - major institutions
  - property owners
  - business owners



Southeast and West LRT
Open Houses

West LRT – September 7-8 | Southeast LRT – September 14-15

Strategy | CONCEPT PHASE | Design | Build | Operate

In May 2010, Edmontonians came together at a series of public workshops to learn about West and Southeast LRT options. They shared their thoughts, ideas, and concerns on possible scenarios for track locations, LRT stations and vehicle, pedestrian and cyclist access.

We're moving forward.

Considering public input and further technical review, the City is ready to present a potential LRT alignment, station locations, and an access plan for review and feedback.

Get involved.

Attend one of our Open Houses to learn more and share your thoughts. Feedback from this round of consultation will be used in our presentation to City Council in November 2010.

Edmonton

TRANSFORMING EDMONTON

What We Heard

www.edmonton.ca/LRTProjects

Competing Themes:		
ensure easy access into neighborhoods	⟷	reducing travel lanes
station location	⟷	intersection operations
pedestrian access across the roadways	⟷	vehicle travel times
neighborhood access	⟷	neighborhood short-cutting

THE CITY OF Edmonton

What We Heard – Next Steps

www.edmonton.ca/LRTProjects

- Minimize construction costs
- Bus system integration - ensure destinations off the LRT corridor are accessible by bus
- Concerned about noise and impact on residential life
- Emergency vehicle access
- Ensure snow removal can be managed
- Minimize potential for crime and risk to personal security
- Preserve or replace landscaping

THE CITY OF Edmonton

Responding to Feedback

www.edmonton.ca/LRTProjects

- When reviewing impacts for alignment, used philosophy to balance impact/benefit to communities on both sides of LRT corridor.
- Added signalized pedestrian crossings and intersections at key locations
- Recognizing multi-use trail and cyclist connections

West LRT

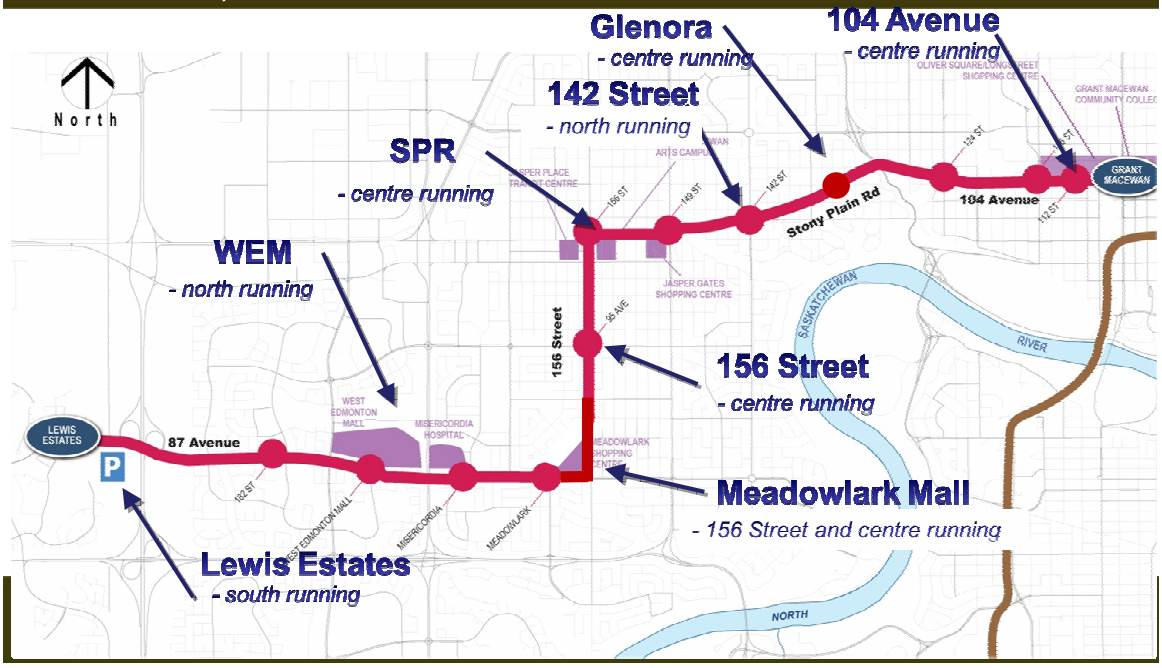
Lewis Estates to Downtown

www.edmonton.ca/LRTProjects

Recommended Alignment

West LRT Alignment

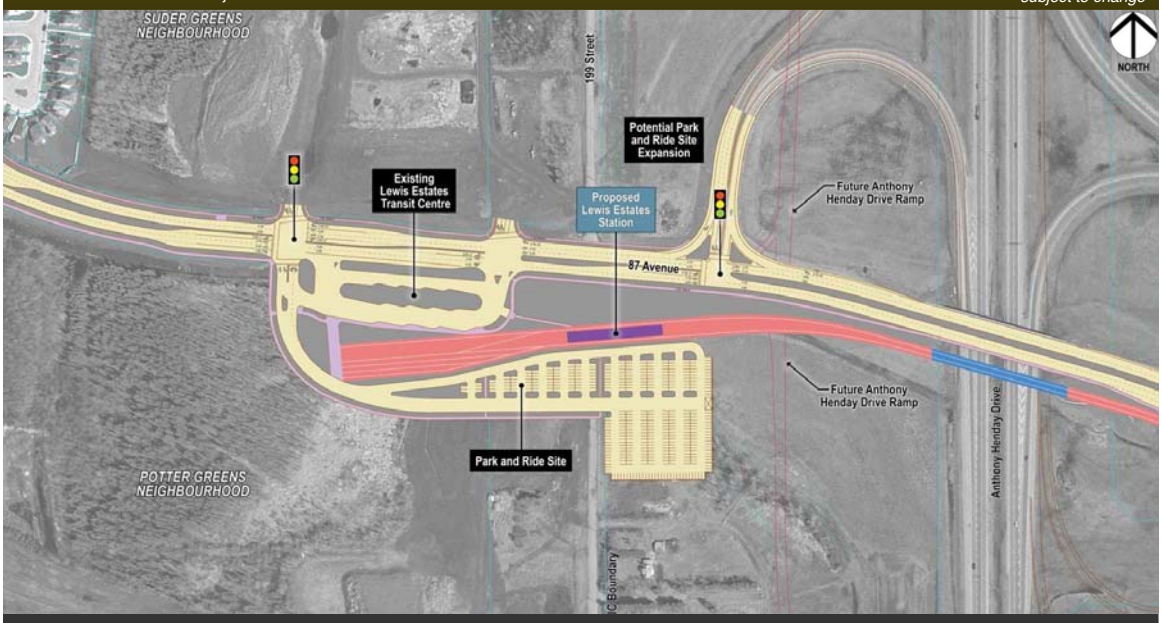
www.edmonton.ca/LRTProjects



Lewis Estates

www.edmonton.ca/LRTProjects

subject to change

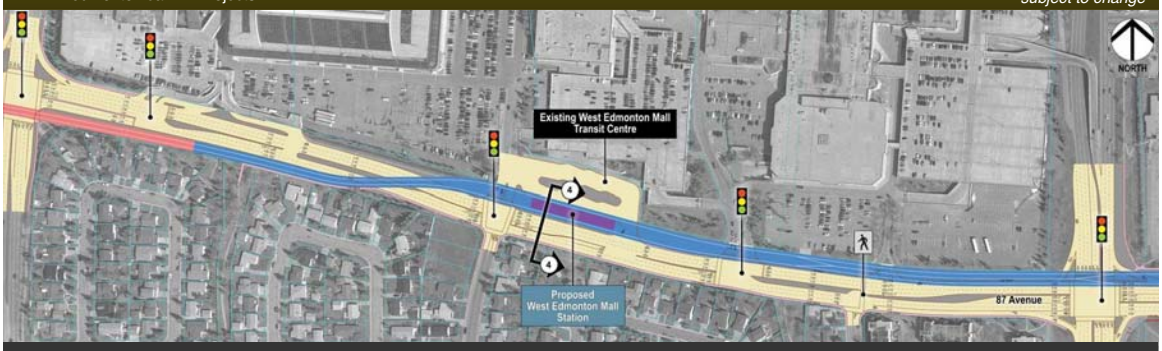


Side Running LRT

West Edmonton Mall

www.edmonton.ca/LRTProjects

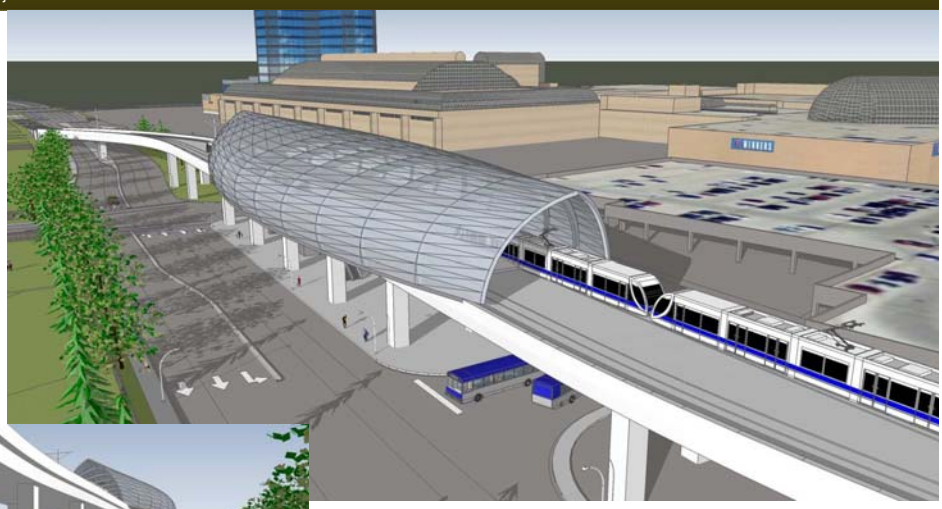
subject to change



Elevated LRT

West Edmonton Mall

www.edmonton.ca/LRTProjects

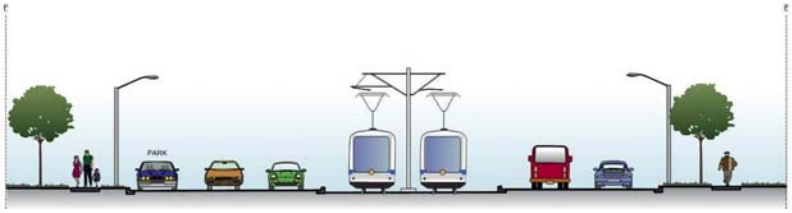


Misericordia

www.edmonton.ca/LRTProjects

subject to change

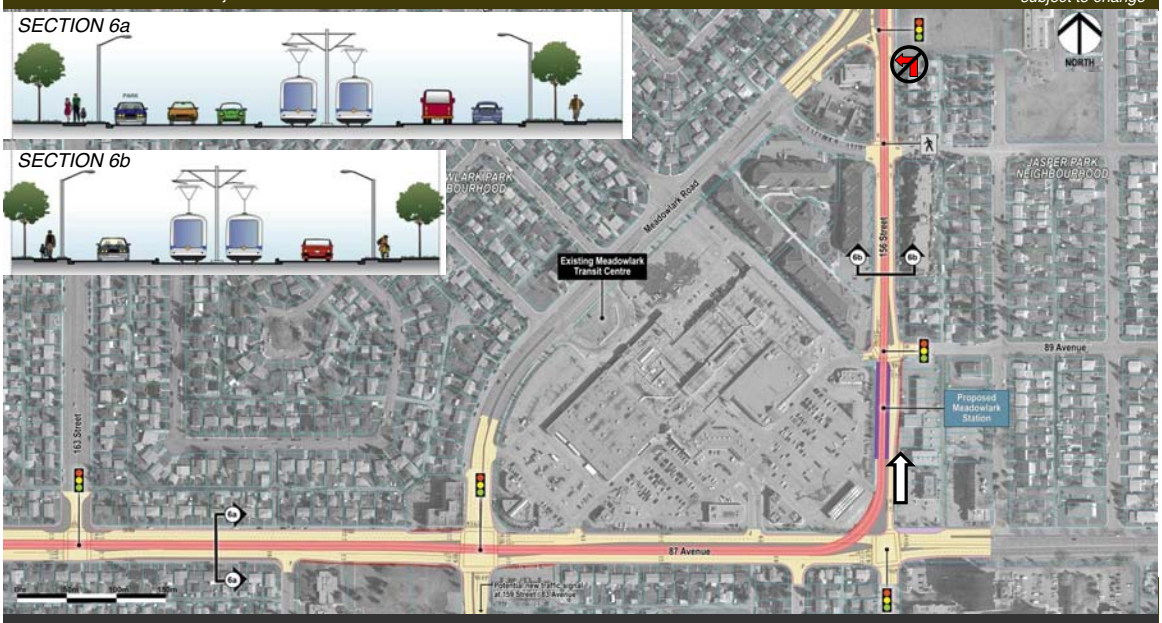
Elevated and Centre Running LRT



Meadowlark

www.edmonton.ca/LRTProjects

subject to change



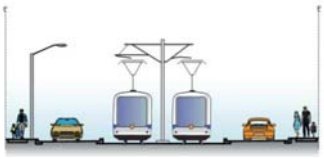
Center Running LRT

Stony Plain Road Business District

www.edmonton.ca/LRTProjects

subject to change

Centre Running LRT



Proposed Cross Section

SPR – ROW Options

www.edmonton.ca/LRTProjects

Centre Running LRT

Possible Cross Section

Stony Plain Road Business District

www.edmonton.ca/LRTProjects

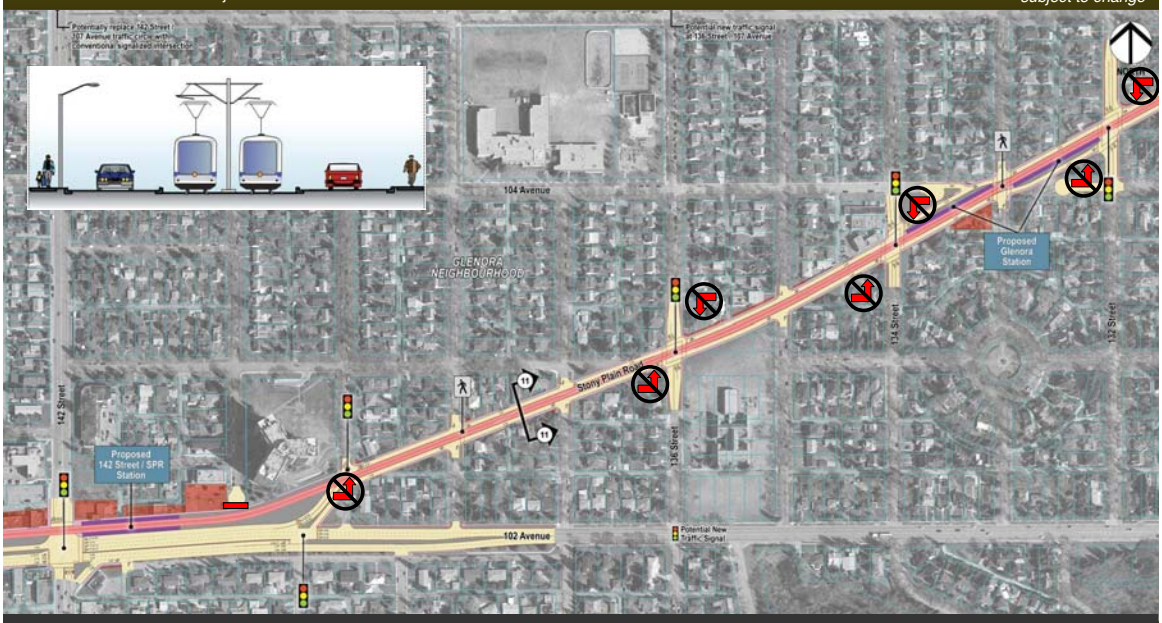
Looking East at 154 Street

Looking West at 153 Street

Glenora

www.edmonton.ca/LRTProjects

subject to change



Centre Running LRT

Glenora

www.edmonton.ca/LRTProjects

Looking West
at 134 Street

Groat Road

www.edmonton.ca/LRTProjects

subject to change

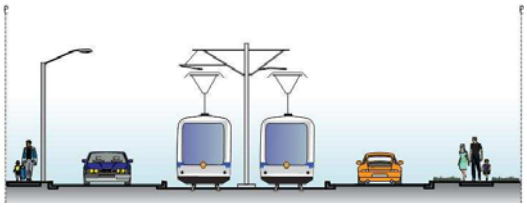
Centre Running LRT

Oliver

www.edmonton.ca/LRTProjects

subject to change

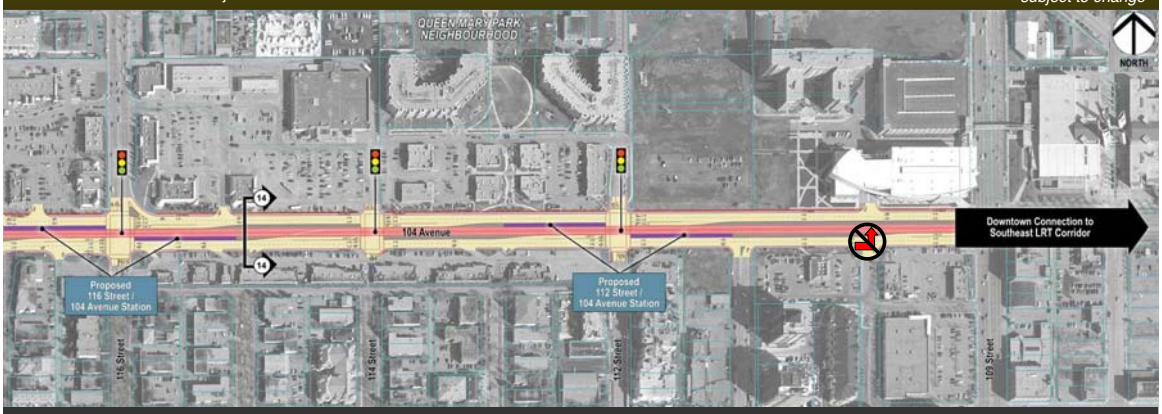
Centre Running LRT



Downtown

www.edmonton.ca/LRTProjects

subject to change



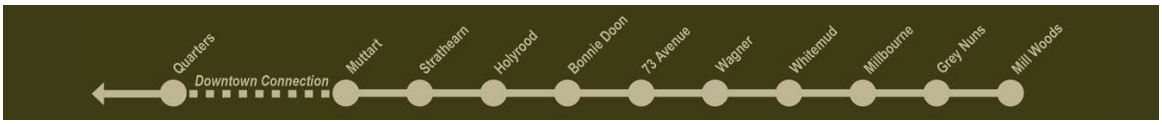
Centre Running LRT

Southeast LRT

Downtown to Mill Woods

www.edmonton.ca/LRTProjects

Recommended Alignment



Southeast LRT Alignment

Strathearn
- centre running

Holyrood
- East side running w/ 2 lanes

Traffic Circle

Bonnie Doon
- west running w/ 4 lanes

75 Street
- east running

Whitemud P & R
- east running

66 Street
- east running

No Options
- Quarters, tunnel, bridge
- north running Connors Road

Avonmore / KEP
- centre running w/ 2 lanes

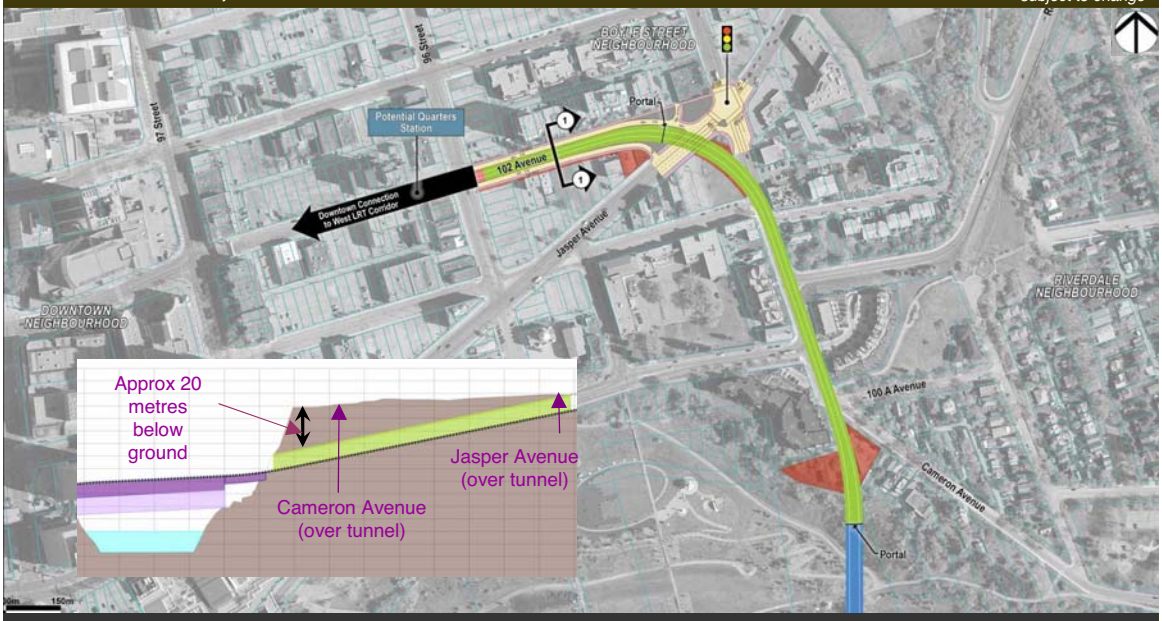
Wagner
- Davies Road w/ tunnel

Terminus

Quarters

www.edmonton.ca/LRTProjects

subject to change



LRT Below Grade

Quarters

www.edmonton.ca/LRTProjects

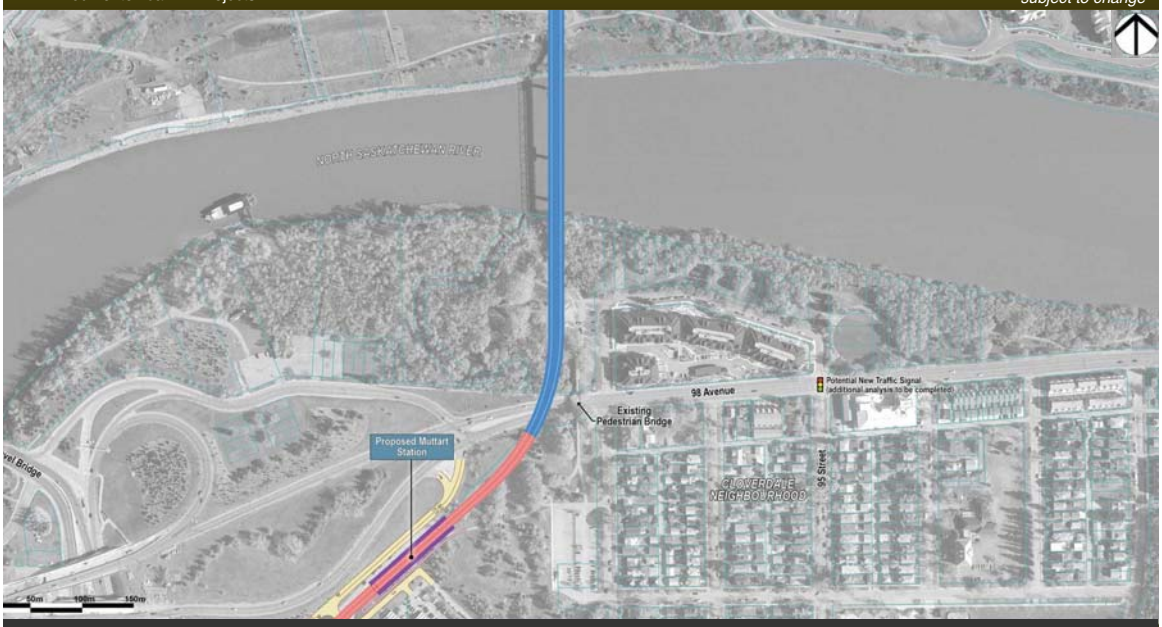
subject to change

102 Avenue at
Jasper Avenue

North Saskatchewan River

www.edmonton.ca/LRTProjects

subject to change



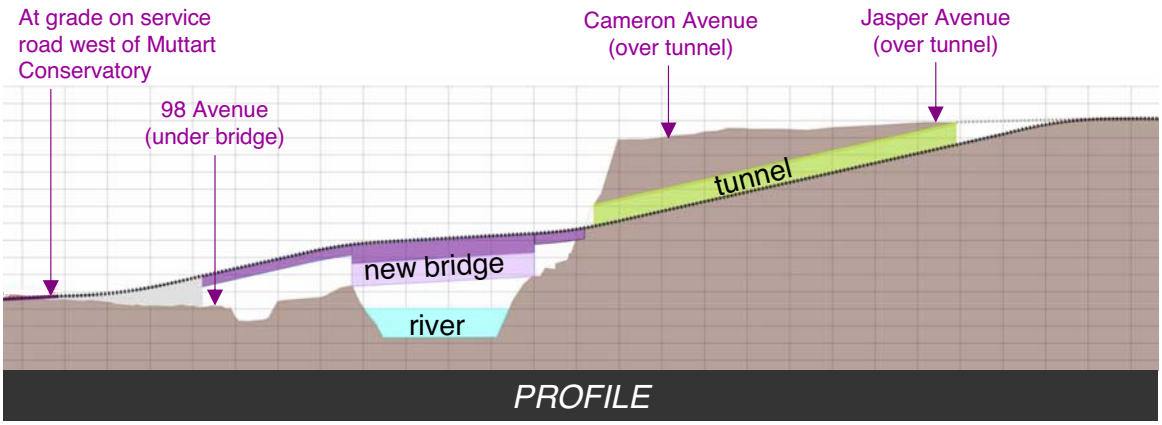
Elevated LRT

Pedestrian and LRT River Crossing Examples

www.edmonton.ca/LRTProjects

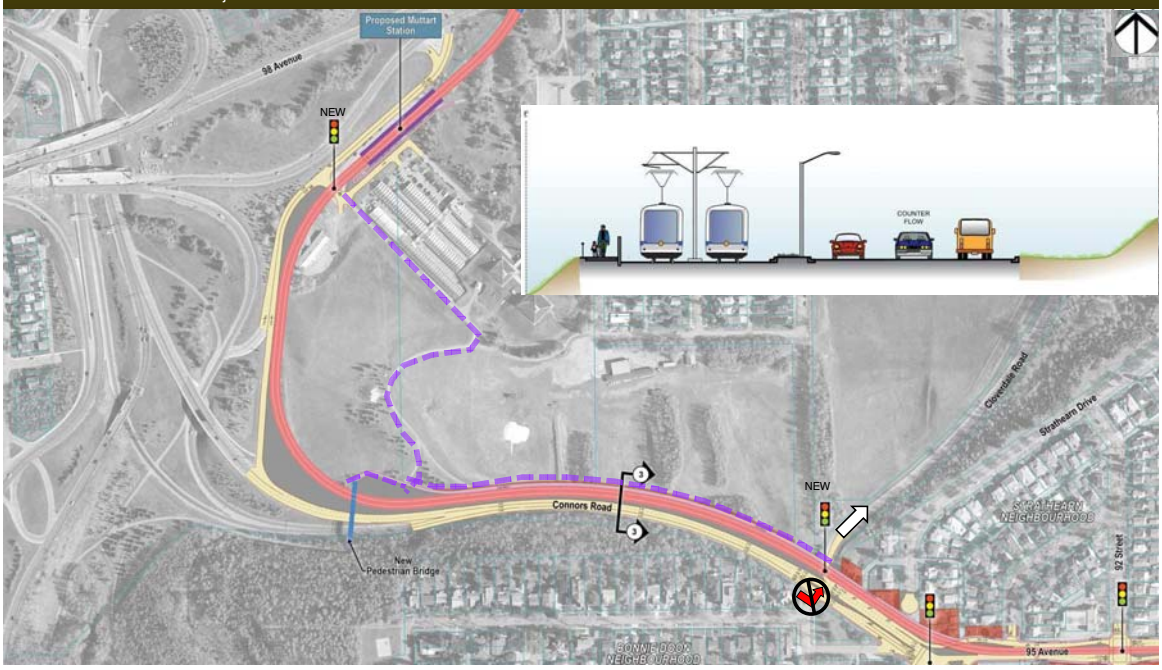
North Saskatchewan River Profile

www.edmonton.ca/LRTProjects



Cloverdale

www.edmonton.ca/LRTProjects



Muttart

www.edmonton.ca/LRTProjects

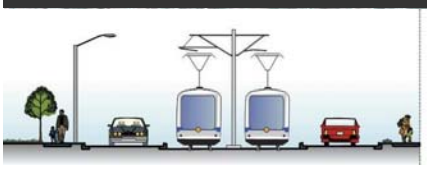
subject to change

Strathearn

www.edmonton.ca/LRTProjects

subject to change

Centre Running LRT



Strathearn

www.edmonton.ca/LRTProjects

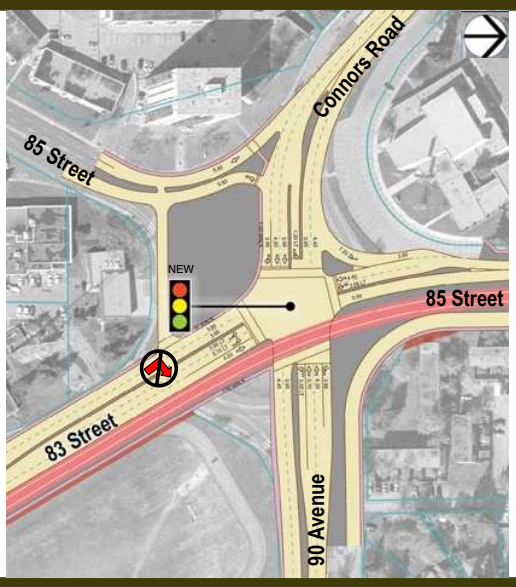
subject to change

95 Avenue at 90 Street

THE CITY OF Edmonton

Bonnie Doon Traffic Circle

www.edmonton.ca/LRTProjects

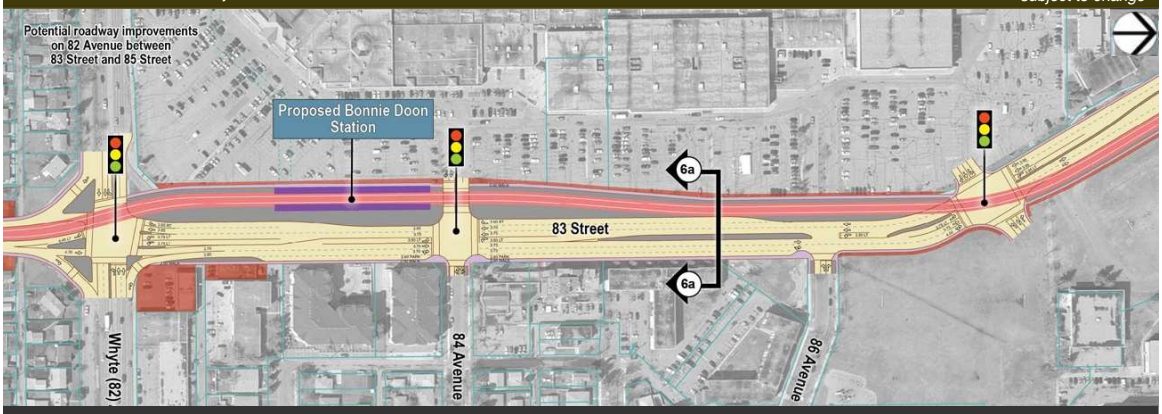


THE CITY OF Edmonton

Bonnie Doon

www.edmonton.ca/LRTProjects

subject to change



West Running LRT

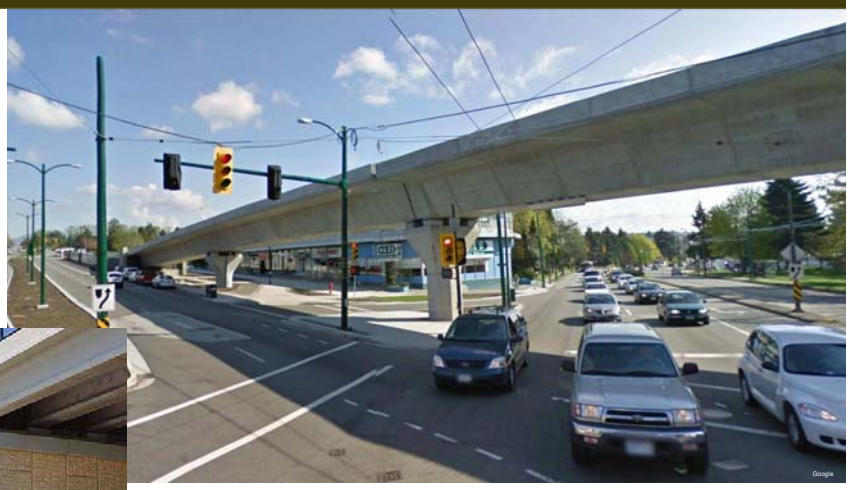
Argyll

www.edmonton.ca/LRTProjects

subject to change

Elevated LRT

www.edmonton.ca/LRTProjects



THE CITY OF Edmonton

Wagner

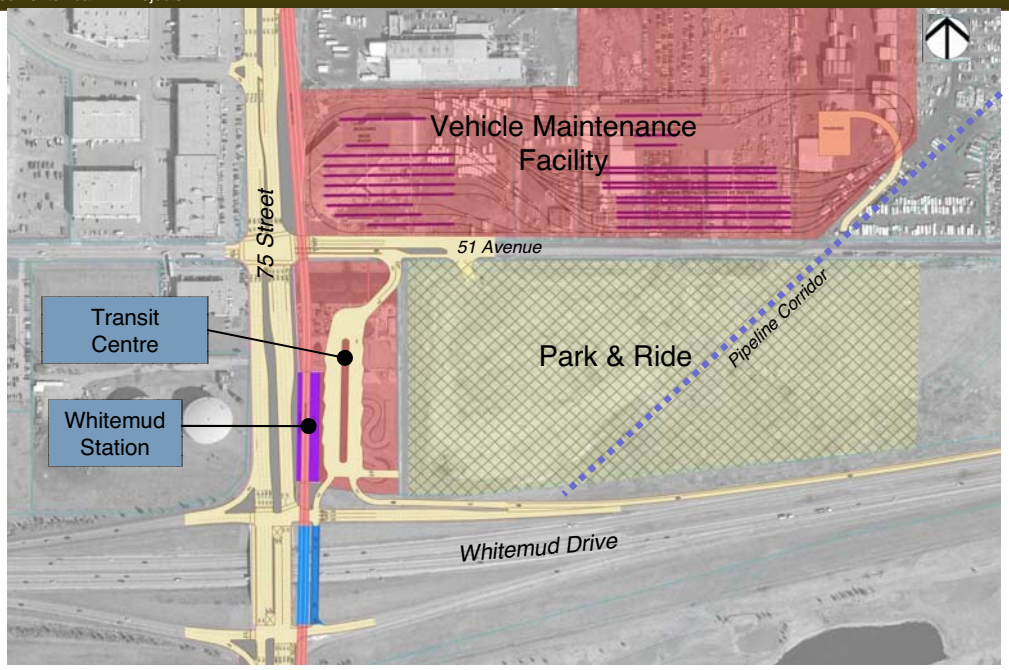
www.edmonton.ca/LRTProjects

subject to change

LRT Below Grade

Mtce Facility/PnR/Transit Centre

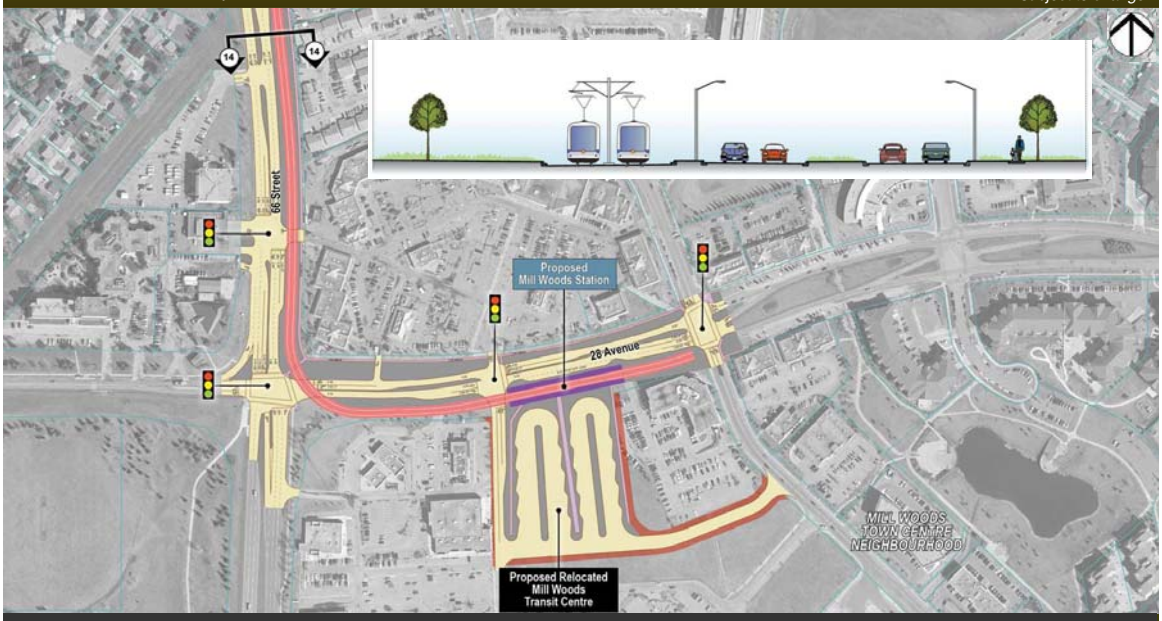
www.edmonton.ca/LRTProjects



Mill Woods

www.edmonton.ca/LRTProjects

subject to change

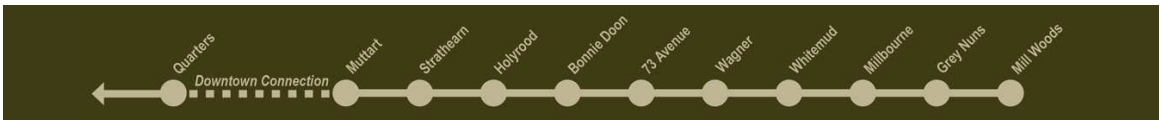


Side Running LRT

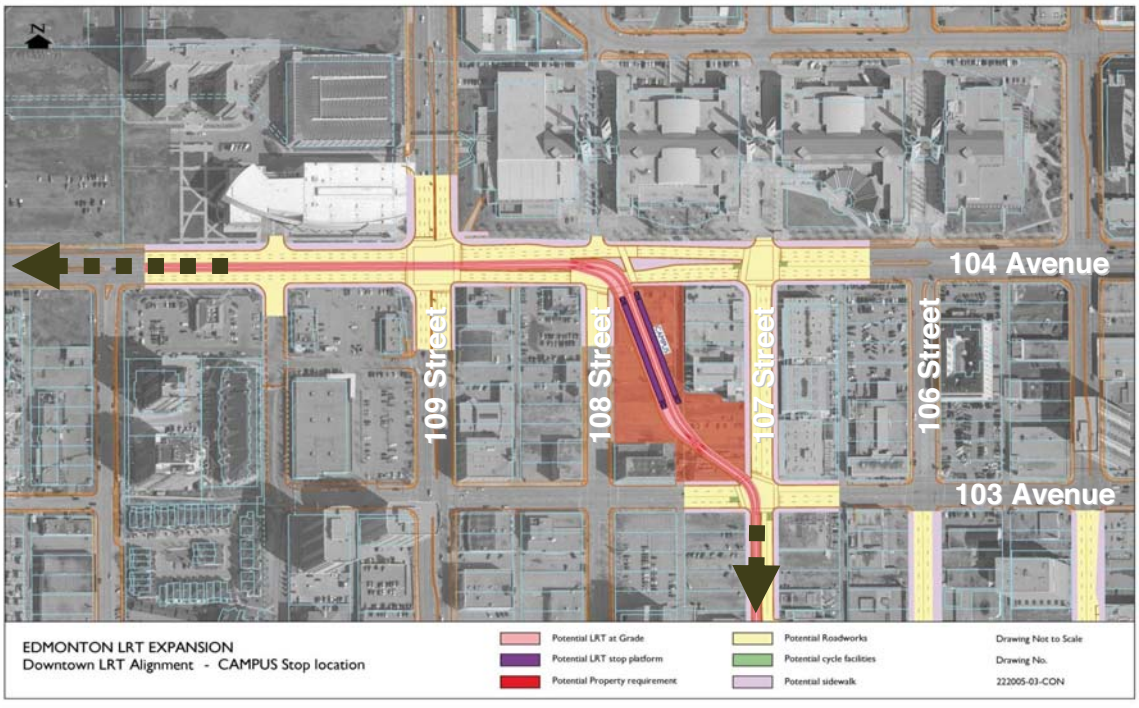
Downtown LRT

www.edmonton.ca/LRTProjects

Draft Recommended Alignment



Campus Stop



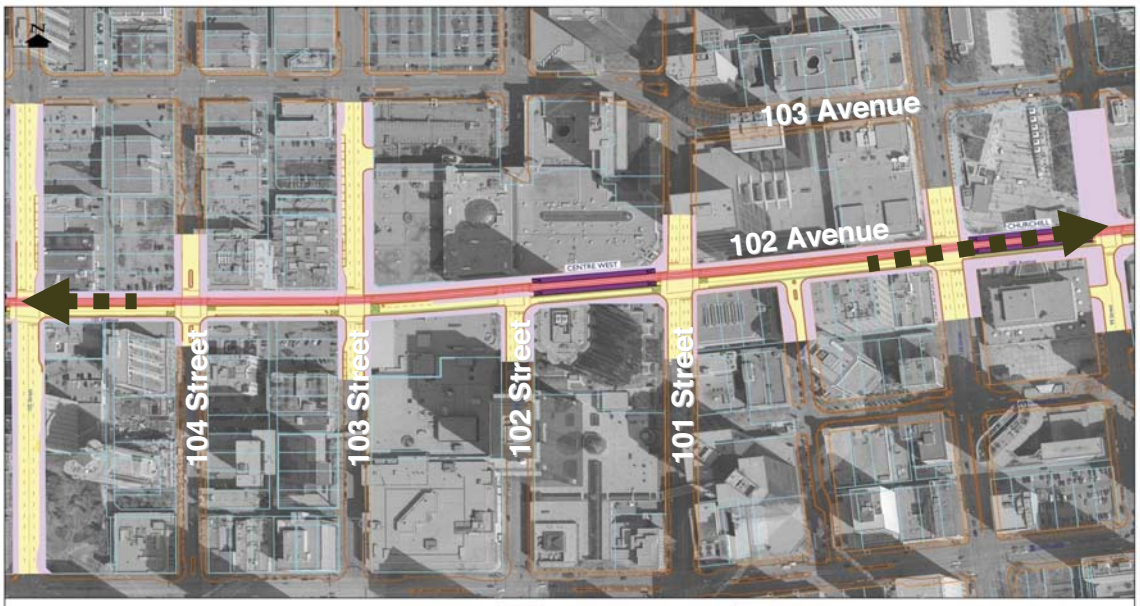
105/106 Street Stop

EDMONTON LRT EXPANSION
Downtown LRT Alignment - 106/105 STREET Stop location

Potential LRT at Grade
Potential LRT stop platform
Potential Property requirement
Potential Roadworks
Potential cycle facilities
Potential sidewalk

Drawing Not to Scale
Drawing No.
222005-03-CON

Centre West Stop

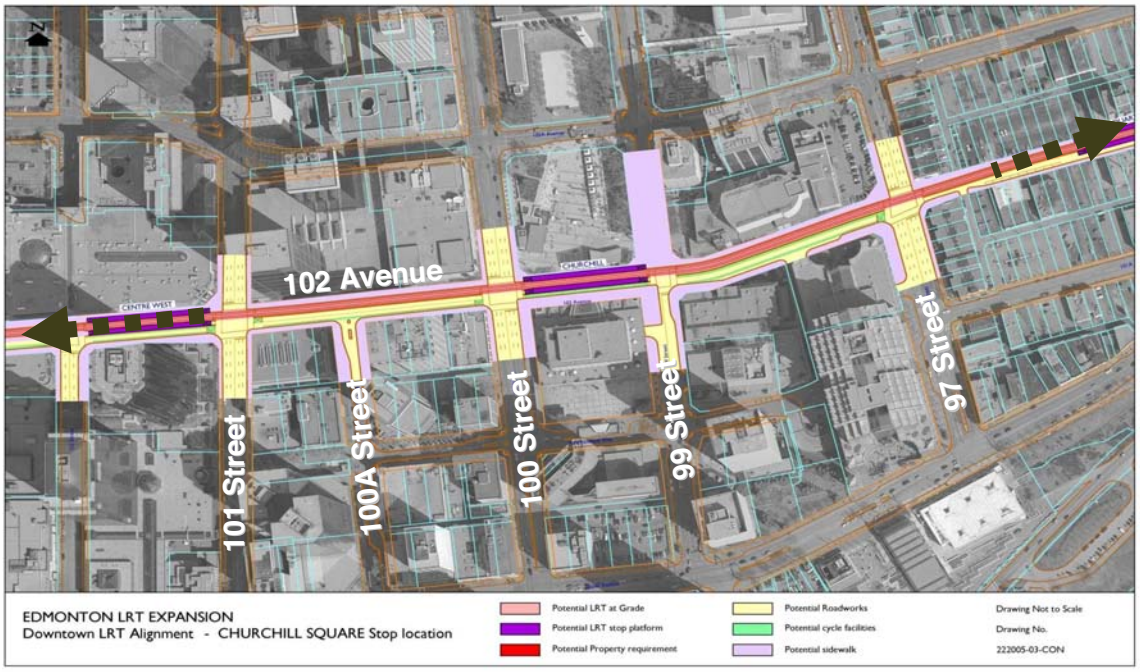


EDMONTON LRT EXPANSION
Downtown LRT Alignment - CENTRE WEST Stop location

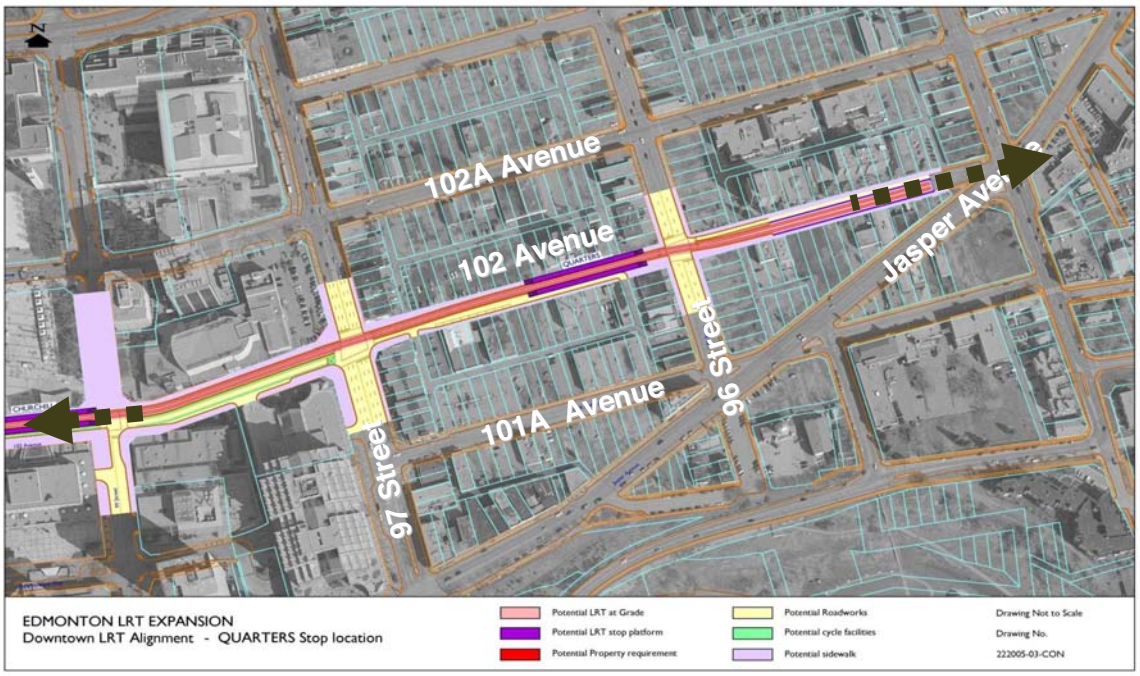
Potential LRT at Grade
Potential LRT stop platform
Potential Property requirement
Potential Roadworks
Potential cycle facilities
Potential sidewalk

Drawing Not to Scale
Drawing No.
222005-03-CON

Churchill Square Stop



Quarters Stop



West, Southeast and Downtown LRT Concept Plans

www.edmonton.ca/LRTProjects

Thank You

THE CITY OF Edmonton