

Edmonton Transit System

Create database designs for each normalization (0NF through 3NF) for someone catching the LRT in Edmonton (Capital and Metro Lines only). Use the following information to base your design from.

Assumptions (that do not necessarily reflect the current LRT operations):

1. Capital line trains start at Century Park and Clareview stations, and all times between stations are fixed. Trains run consistently every 5 mins.
2. Metro line trains start at Health Sciences/Jubilee and NAIT stations, and all times between stations are fixed. Trains run consistently every 15 mins.
3. If required for their trip, riders must transfer train lines at any station that both trains service. The selection can be fixed if it is sensible (for example, a Clareview to NAIT trip must transfer at Churchill as the rider would not want to travel needlessly south, missing their NAIT train)

Sample Trip:

9:15 AM - 9:44 AM
(29 min)

Capital

Metro

9:15 AM from Southgate LRT Station
every 15 min

Add to Calendar

Schedule explorer

9:15 AM

Southgate LRT Station
111 St & 48th Avenue, Edmonton, AB

9:15 AM

Southgate LRT Station

Capital

Clareview

9 min (4 stops) · Stop ID: 2114 ·

Modified service

9:24 AM
9:27 AM

University Stn-NB

Metro

NAIT

17 min (8 stops) · Stop ID: 2969 ·

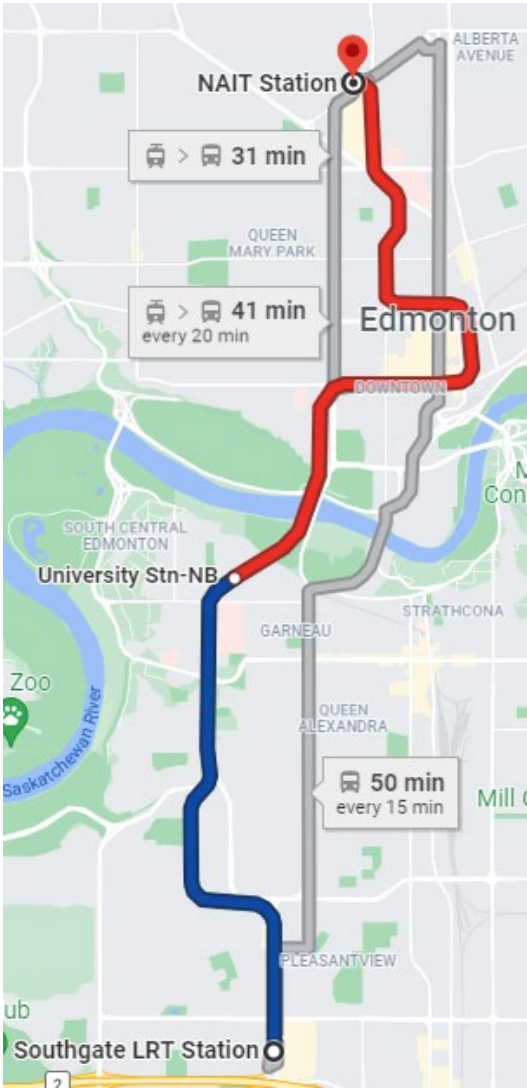
Modified service

9:44 AM

NAIT Station

9:44 AM

NAIT Station
Edmonton, AB T5G 3H6



Travel Times between Stations

(based on information provided at <https://www2.epl.ca/ets/> on Jan 13, 2022)

Capital Line														
Century Park	Southgate	South Campus	McKernan	Jubilee	University	Gov't Centre	Corona	Bay	Central	Churchill	Stadium	Coliseum	Beldere	Clareview
0	5	8	10	12	14	16	18	18	20	22	24	27	31	34
Metro Line														
-	-	-	-	Jubilee	University	Gov't Centre	Corona	Bay	Central	Churchill	MacEwan	Kingsway	NAIT	-
-	-	-	-	0	2	4	6	6	8	10	13	16	19	-

Figure: Edmonton’s Capital and Metro Line LRT Stations

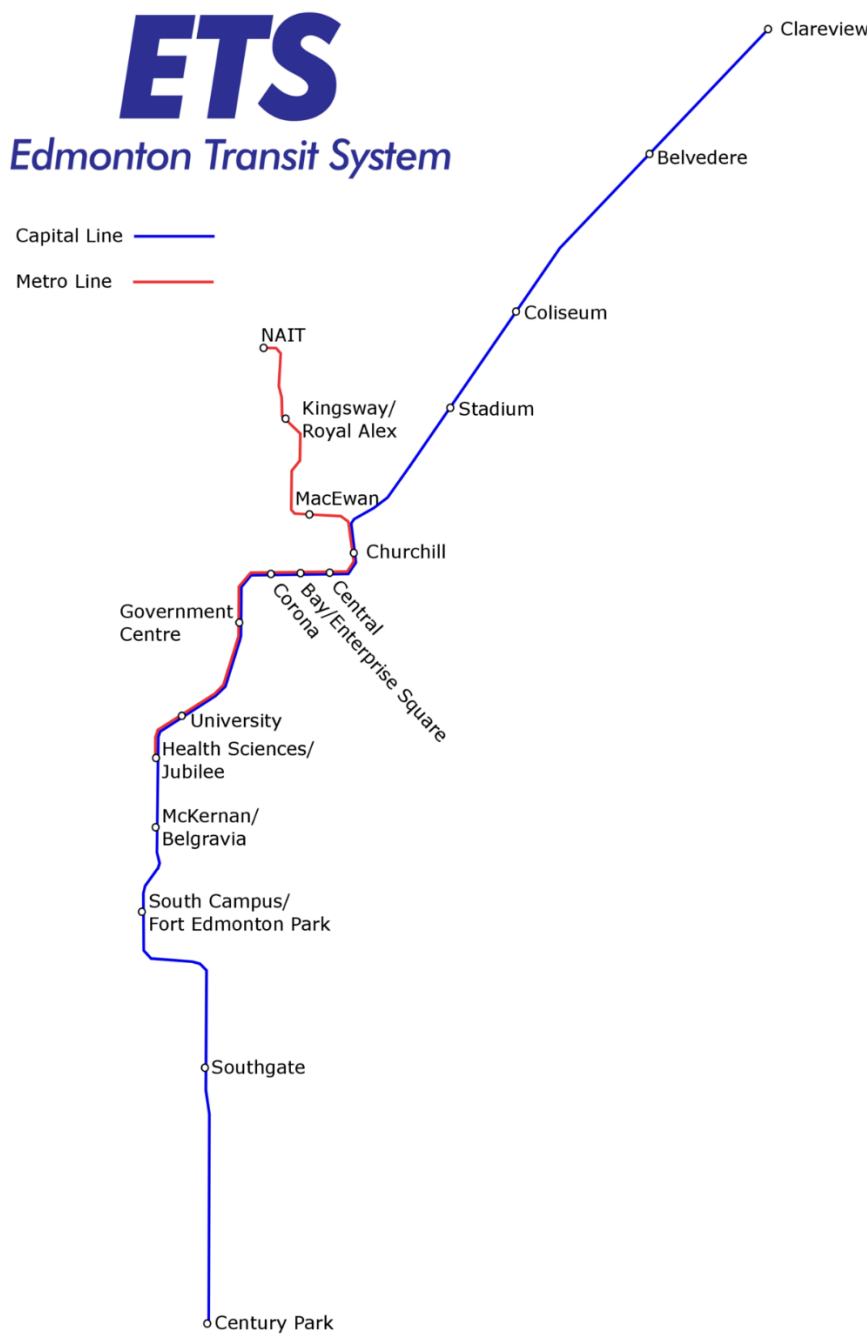


Figure: ETS Day Map September 2021

