

# 142 Street Planning Study

118 Avenue to Yellowhead Trail

## Transportation Committee

June 5, 2014



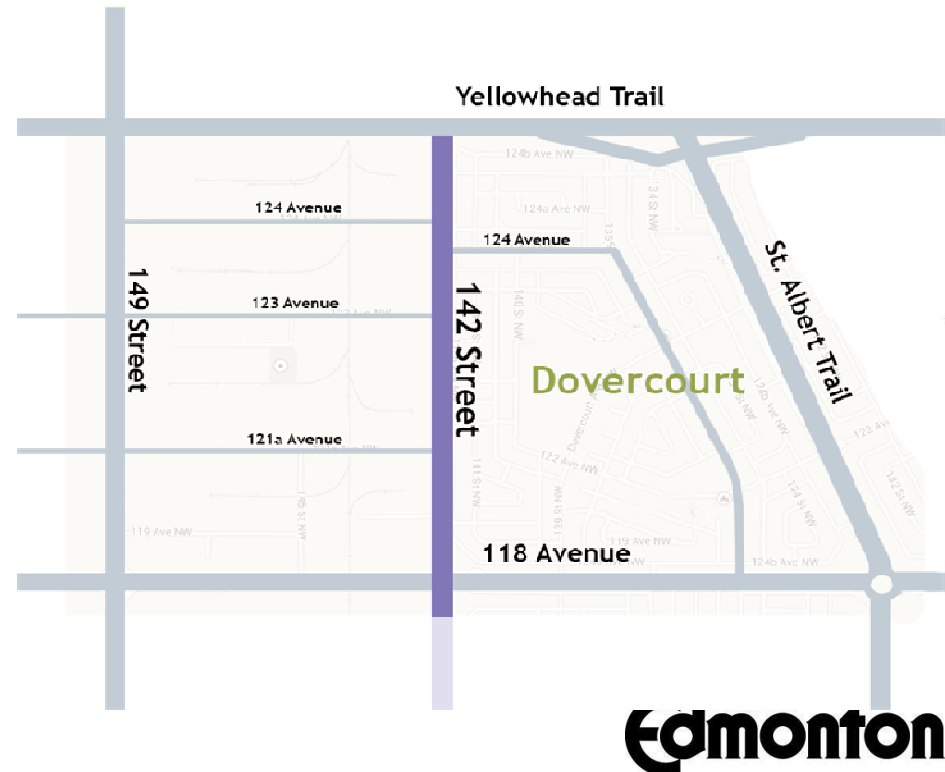


# Why are we here today?

- Seeking Council direction for the interpretation and application of Council policy to a roadway project

# Project Purpose

- 142 Street (118 Ave - Yellowhead Tr.) is scheduled for **road renewal in 2015**.
- The planning study allows us to **test the Complete Streets Guidelines** on a road renewal project.
- The planning study **considers all methods of travel**:
  - Cars
  - Cycling
  - Walking
  - Transit
  - Trucks





# Constraints

**EPCOR SUBSTATION SITE**



**EXISTING TREES**

**POWER POLES**



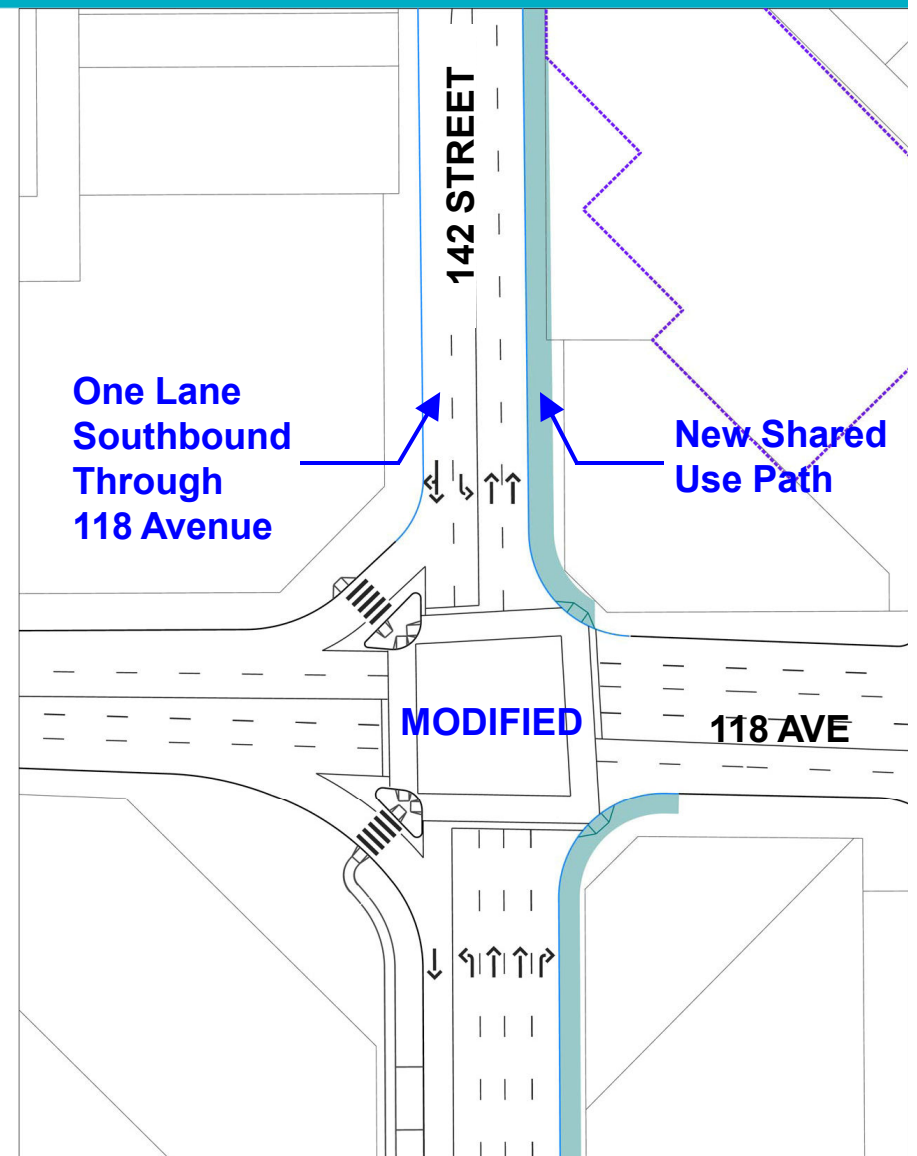
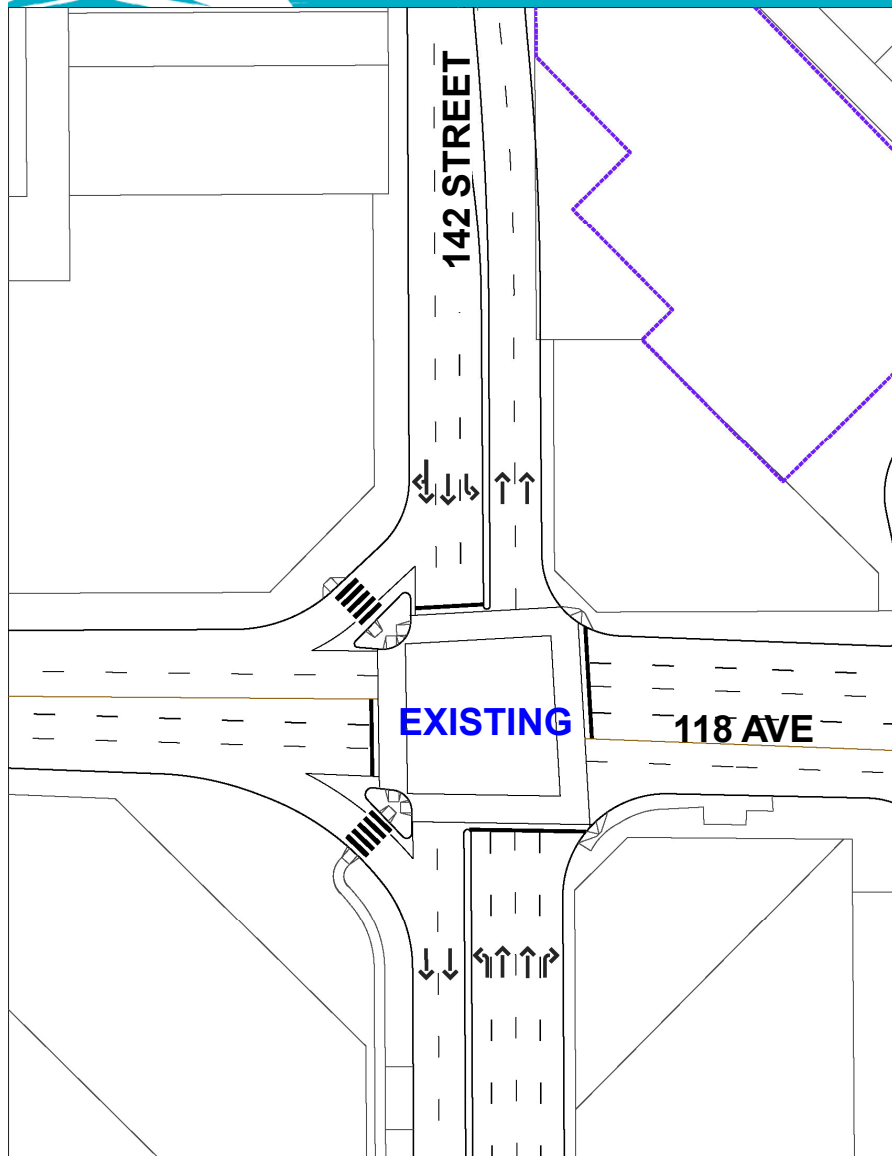


# Concepts

- Concept 1
  - Remove 1 southbound lane (124 Ave to south of 118 Ave)
  - Construct full boulevard west sidewalk
  - Shared-use path (SUP) on east side
  - 118 Avenue intersection modifications for SUP
- Concept 2
  - 2 southbound lanes
  - West side transit connections only
  - Shared-use path (SUP) on east side
  - 118 Avenue intersection modifications for SUP



# 118 Avenue / 142 Street Intersection





# Lane Reductions

The traffic volumes along 142 Street are:




























- 12,000 vpd\* (existing)      14,000 vpd (future)

Compared to other 4-lane roads within the City, the volumes are low:

- 30,000 to 40,000 vpd      St. Albert Tr
- 22,000 to 26,000 vpd      149 St
- 21,000 to 28,000 vpd      107 Ave

\*vpd = vehicles per day

# Option Comparison

CRITERIA	CONCEPT 1	CONCEPT 2	RECONSTRUCT WITHOUT CHANGES (For Comparison Purposes Only)
Desirable to Public			
Car Accommodation			
Bicycle Accommodation			
Pedestrian Accommodation			
Bus Rider Accommodation			
Truck Accommodation			
Construction Cost within Budget <i>Budget: \$4.0 million</i>	 \$4.2 million	 \$4.5 million	 \$3.8 million
Lifecycle and Maintenance Costs <i>Costs over 30 years</i>	 \$5.2 million	 \$6.1 million	 \$5.4 million
Appearance			

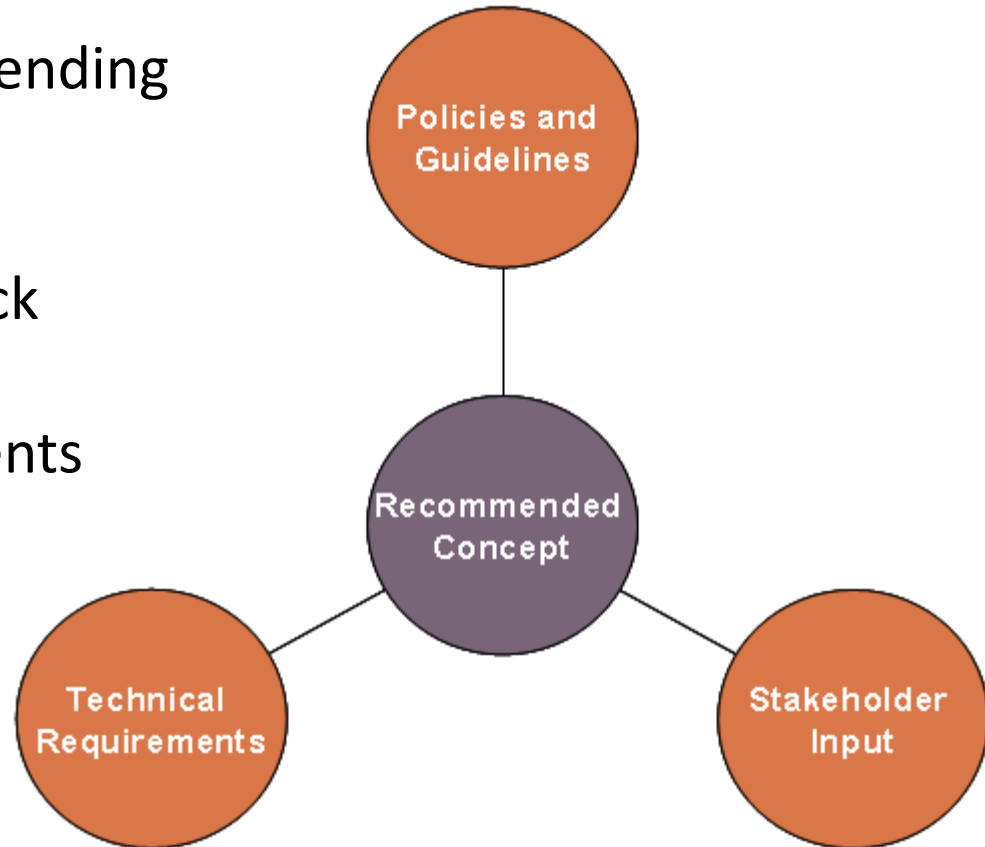
Legend:  Does Not Meet Criteria   Best Meets Criteria



# How We Choose a Concept

Administration is recommending a plan that balances:

- Stakeholder feedback
- Technical requirements
- City policies





## Council Direction

- Seeking direction on removal of traffic lane to accommodate sidewalk and / or shared-use path.
- Seeking Committee approval of the 142 Street concept plan which provides a balance between stakeholder input and Council Policy.