

- ✓ City's highest priority new rail-road grade separation candidate site as per the 2005 Rail Exposure Index Study and 2013 **Blockage Study**
- ✓ The Smart Moves 2030 Transportation Master Plan and **Development Charge Background Study (2014)** identifies needs for optimization and for the implementation of the grade separation in the 2031 planning horizon respectively.
- Subsequently, in 2017 Council approved moving project forward in a 3-5 timeframe to support implementation of the BRT initiative









Existing Conditions

✓ Adelaide Street North is a key north-south 4-lane arterial roadway that carries over 25,500 vehicles per day and is an important local commercial and service corridor.

√ Frequent train crossings result in the street being blocked significantly affecting EMS, vehicles, transit, cyclists, pedestrians and resulting in cut-through traffic onto local streets

✓ CPR operations can block the crossing on average 20 times and up to 80 minutes per day, with more than half of the blockages resulting from shunting activities (2018 study)

✓ Excessive delays increase idling time and emissions





Opportunities

✓ Grade separating the crossing will create a safer and more reliable road crossing of the CPR line by removing potential conflict between railway operations and pedestrian, cyclists and automobiles

✓ Provide an uninterrupted north-south road corridor for emergency planning and response

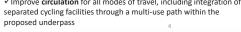
✓ Improve local transit reliability and support the implementation of the BRT north corridor

✓ Allow for improvements to surrounding streetscape and integration of heritage character of the neighborhood and

✓ Improve circulation for all modes of travel, including integration of









Preliminary Preferred Concept

Underpass (road under rail) is preferred because:

- √ Fewer overall property impacts
- Improves connectivity with Central Ave and maintains access to Elias St, Pall Mall Ave and McMahen St.
- Decreased traffic noise from the depressed roadway
- Is more attractive to pedestrians and cyclists
- Relatively little visual intrusion to the surrounding community and provides more opportunities for context sensitive design
- Preferred by the community









Adelaide St Cross-Section

SECTION B

View looking north along Adelaide, showing relationship of bridge, abutment walls and sidewalks



Intersection Improvements

Central Ave Realignment



Recommended

Pall Mall and McMahen Street



Recommended



Not Recommended







Temporary Road Detour



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Temporary Road Detour

- The specifics of the temporary detour are subject to further design and review with CPR.
- Significant rail infrastructure constraints exist and implementation of a 2-lane detour with turning lanes is proposed.







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Estimated Capital Costs

Item	Estimated Cost
Removals	1,139,000
Roadwork	10,826,000
Storm Sewers / Pump Station	8,779,000
CP Structure	9,832,000
Sanitary Sewer	567,000
Watermain	876,000
Temporary Work	660,000
Road Detour	2,027,000
Utility Relocation	4,440,000
CP Railway Infrastructure Costs	4,080,000
Property Acquisition	9,800,000
Engineering	5,250,000
TOTAL (cost sharing with CP is expected at 15%)	\$58,276,000

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Next Steps





Thank You





