# Colinton <br> －rolalole 

Adelaide Street／Canadian Pacific Railway （CPR）Grade Separation EA


London

## Study Background／Context

$\checkmark$ City＇s highest priority new rail－road grade separation candidate site as per the $\mathbf{2 0 0 5}$ Rail Exposure Index Study and 2013 Blockage Study
$\checkmark$ 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．
$\checkmark$ Subsequently，in 2017 Council approved moving project forward in a 3－5 timeframe to support implementation of the BRT initiative


Existing Conditions
$\checkmark$ 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．
$\checkmark$ 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
$\checkmark$ CPR operations can block the crossing on average $\mathbf{2 0}$ times and up to 80 minutes per day，with more than half of the blockages resulting from shunting activities（2018 study）
$\checkmark$ Excessive delays increase idling time and emissions



## Opportunities

$\checkmark$ 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
$\checkmark$ Provide an uninterrupted north－south road corridor for emergency planning and response
$\checkmark$ Improve local transit reliability and support the implementation of the BRT north corridor
$\checkmark$ Allow for improvements to surrounding streetscape and integration of heritage character of the neighborhood and McMahan Park

$\checkmark$ Improve circulation for all modes of travel，including integration of separated cycling facilities through a multi－use path within the proposed underpass

# HAOLITCN <br>  

Preliminary Preferred Concept

Underpass（road under rail）is preferred because：
$\checkmark$ Fewer overall property impacts
$\checkmark$ Improves connectivity with Central Ave and maintains access to Elias St，Pall Mall Ave and McMahen St．
$\checkmark$ Decreased traffic noise from the depressed roadway
$\checkmark$ Is more attractive to pedestrians and cyclists
$\checkmark$ Relatively little visual intrusion to the surrounding community and provides more opportunities for context sensitive design
$\checkmark$ Preferred by the community


# HADNTON 

Adelaide St Cross-Section
SECTION B
View looking north along Adelaide, showing relationship of bridge, abutment walls and sidewalks


Recommended

Pall Mall and McMahen Street


Recommended


# TOMATON 

Temporary Road Detour

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


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 $\mathbf{1 5 \%})$ | $\$ 58, \mathbf{2 7 6 , 0 0 0}$ |


Next Steps


https://getinvolved.london.ca/adelaide-streetcpr-grade-separation

