

Agenda

Design Update

- Project Overview
- City Policy Changes
- City Design Themes being Evaluated
- Other Design Considerations





Project Overview

- 14-km corridor, 17 stops
- 600-800m between stops
- Operations, Maintenance and Storage Facility at Chatham and Frid Street
- Capital funding from Federal (\$1.7B) and Provincial (\$1.7B) governments





Project Overview – LRT System Key Components



Light Rail Vehicles (LRVs)



Overhead Catenary System (OCS)



Guideway/Tracks



Operations, Maintenance and Storage Facility (OMSF)



Integrated Network



Electrical Substations



LRT Stops



Streetscape



Project Overview – Infrastructure Benefits



SEWERS

14,000 m (14 km) of sewer pipe replaced



WATERMAINS

16,000 m (16 km) of watermain pipe replaced



ROADS

14,000 m (14 km) of road reconstruction



SIDEWALKS

28,000 m (28 km) of sidewalk replaced and upgraded to AODA standard



Note: Information is current as of December 2019 and may be subject to change.



City Policy Changes

Plans and Policies with Direct Impact

Plan or Policy	Implications for LRT
Complete Streets Design Manual (2022)	 Includes policies and guidelines which direct how streets are designed to facilitate Complete Streets Includes new guidelines for lane widths, curb radii, design speeds, etc.
Truck Route Master Plan (2022)	 Removes selected N-S routes crossing King Street Implements max. four axle restriction for most downtown routes, plus King Street East
Main Street Conversion Project (2022)	Council approval to convert Main Street from one-way to two-way operations
HSR re-Envision Study (on-going)	Identifies changes to local transit services including connections to LRT stops
City-wide Transportation Master Plan (2018)	Included updated Cycling Master Plan
Gore Standard: Hardscape Design Guidelines (2018)	Gore Pedestrianization Initiative hardscape detailing



City Policy Changes

Other Plans and Policies

Plan or Policy	Implications for LRT
Hamilton Vision Zero Strategy (2019)	Council approved policy to adopt Safe Systems and Vision Zero approach to design
Urban Forest Strategy (ongoing)	Includes actions that will contribute to better forest planning and management and support Hamilton's urban forest strategy
Hamilton's Climate Action Strategy	 Community Energy & Emissions Plan – includes actions to increase energy efficiency, use of renewable energy, sustainable transportation and green building practices among others Climate Change Impact Adaptation Plan – includes actions like low impact development to increase community resilience to extreme weather
Parking Master Plan (2021)	Provides direction for public off-street and on-street parking, technology, and curbside management
Downtown Entertainment Precinct Plan (2021)	Land transaction to facilitate redevelopment of major downtown venues including Hamilton Convention Centre and First Ontario Place
Ontario Traffic Manual (OTM) Book 18	Provincial manual that guides design of cycling facilities
Snow Removal	Council has directed to snowplow along the transit corridors

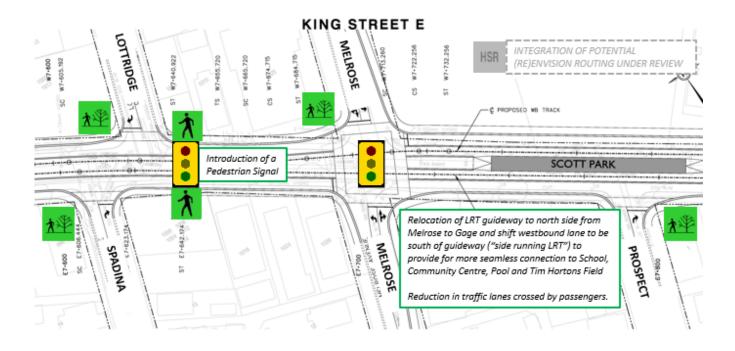


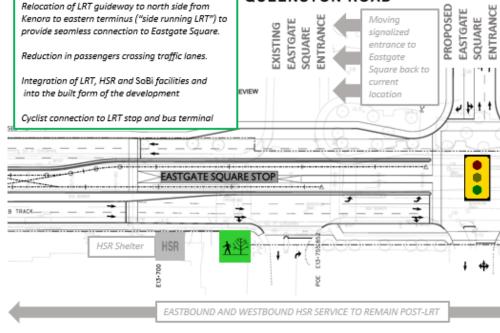
City and Metrolinx are working together to update the concept design based on the following design themes:

- Pedestrian Environment
- Cycling Facilities and Connectivity
- Transit Connectivity
- Streetscape Elements
- Traffic Network
- Infrastructure Opportunities



Pedestrian Environment Sample Concepts





QUEENSTON ROAD

See Sheet 15 of Appendix "A"

Introduction of Pedestrian Signal at existing school crossing

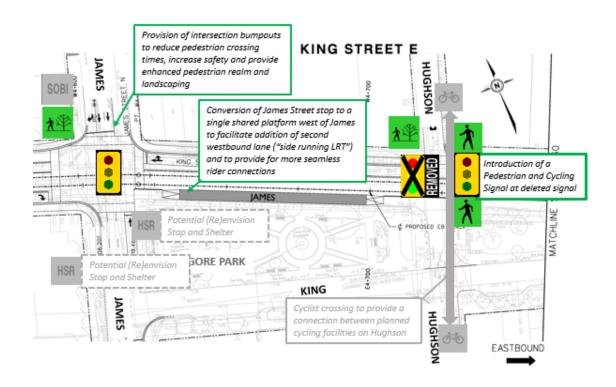
LRT shift to side-running to eliminate pedestrians crossing westbound traffic lane

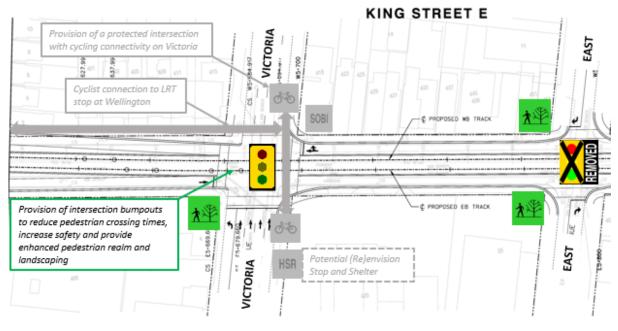
See Sheet 26 of Appendix "A"

LRT shift to side-running to eliminate pedestrians crossing westbound traffic lanes



Pedestrian Environment Sample Concepts - continued





See Sheet 10 of Appendix "A"

Introduction of Pedestrian Signal at the deleted vehicular signal at Hughson

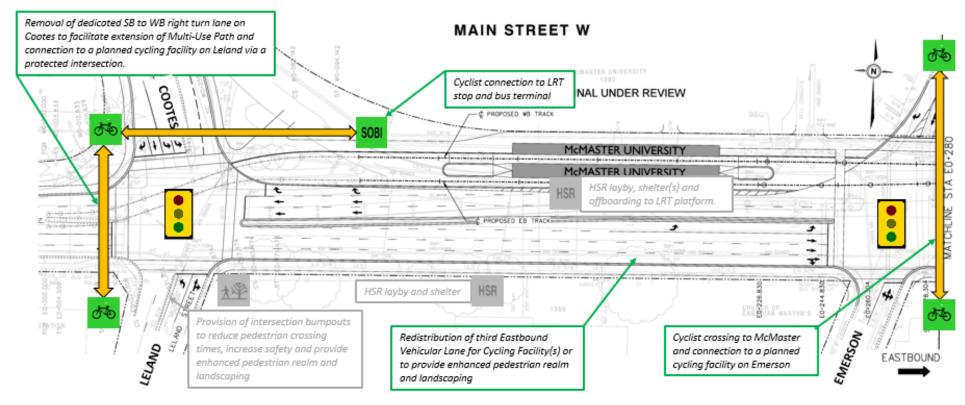
Incorporate bump-outs at James to increase pedestrian safety

See Sheet 12 of Appendix "A"

Introduction of bump-outs and integration of pedestrian, cycling and HSR



Cycling Facilities and Connectivity Sample Concepts



See Sheet 2 of Appendix "A"

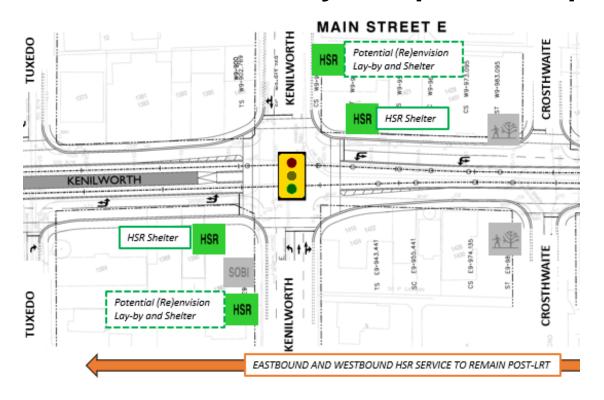
Removal of third eastbound vehicular lane and provision of eastbound and westbound cycling facilities

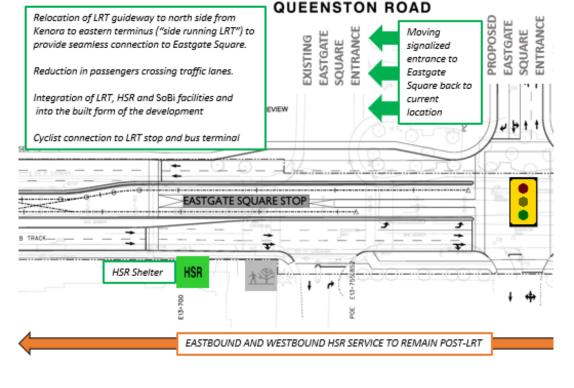
Extension of existing multi-use path on Cootes to Main, connections to a planned cycling facilities on Leland and Cootes

Connectivity to LRT stop and SoBi



Transit Connectivity Sample Concepts





See Sheet 19 of Appendix "A"

Provision of shelters and/or laybys and integration of LRT with:

- existing HSR, (Re)envision and BLAST network (T-line) routing

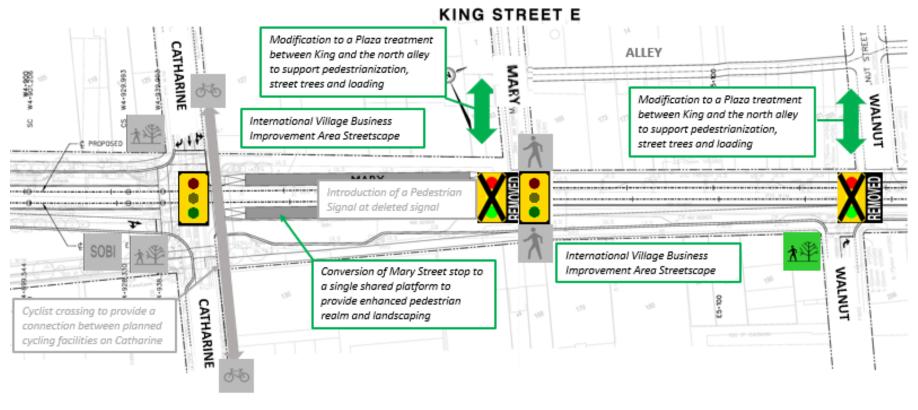
See Sheet 26 of Appendix "A"

Integration of LRT and provision of shelters and/or laybys:

- existing HSR, (Re)envision and BLAST network (S-line) routing
- potential site redevelopment



Streetscape Opportunities Sample Concepts



See Sheet 10 and 11 of Appendix "A"

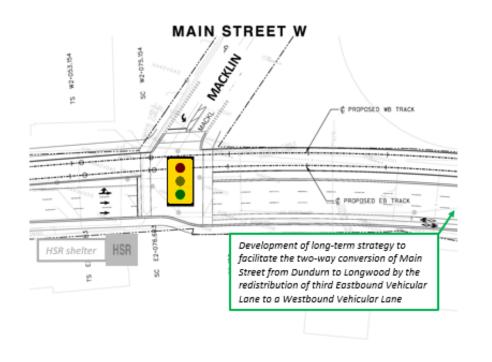
International Village Business Improvement Area Streetscape

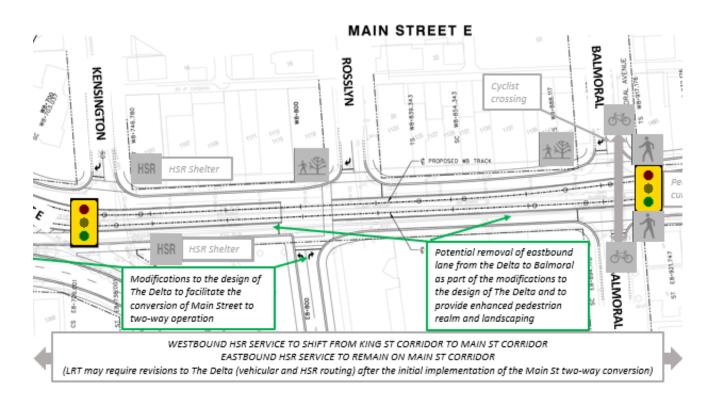
Modifications to road segments between King Street and the north alley to support pedestrianization, greening and loading

Conversion of Mary Street stop to a single shared platform to increase pedestrianization of area and streetscape opportunities.



Traffic Network Sample Concepts





See Sheets 5 and 17 of Appendix "A"

Addition of a westbound lane within the limits of the LRT project on Main Street

Development of strategy to facilitate the two-way conversion of Main Street from Dundurn to Longwood

Modifications to the design of The Delta and LRT corridor to facilitate the conversion of Main Street to two-way operation through the Delta



Other Design Considerations

 Other design considerations are currently being investigated with Metrolinx. This includes addressing Emergency Services and Accessibility requirements, consideration of Public Art and Digital Infrastructure requirements, and coordinating the LRT design with adjacent developments.





THANK YOU