

Dundas Street Cycle Track Detailed Design

> Cycling Advisory Committee Update Wednesday, December 18th, 2019 John Zunic & Stephen Tam



Project update agenda

- 1. Project Overview
- 2. Project History
- 3. Key Design Options
 - Design philosophy
 - Mid-block design
 - Intersection design
 - Transit integration
- 4. Project Timelines & Wrap-up

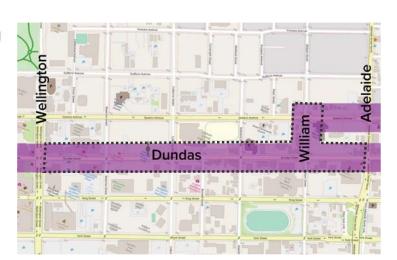


Image by Stephen Tam/WSP

Project Overview

Complete detailed design of a separated bikeway on Dundas from Wellington to Adelaide and William from Dundas to Queens

- Approximately 1.4km of new separated bikeway
- Connects Dundas Place and downtown to the west
- Connects to a future separated bikeway on Queens and cycle track on Dundas through the Old East Village to the east



Credit: OpenStreetMaps 12/18/2019 3

High level project goals and guiding principles



Build and refine on previous design concept and develop a practical and feasible design for 2020 installation



Provide facilities that emphasize conflict mitigation and that are attractive to users of all ages & abilities



Minimize impacts on on-street parking supply, traffic, transit and curbside operations



Create a vibrant streetscape and enhance the public realm



Coordinate and work collaboratively with key stakeholders such as community groups, advisory committees, LTC, advocates, etc.

Icons from noun project 12/18/2019

Separated bikeway history in London

The Dundas Street Cycle Track Detailed Design assignment builds on momentum from previous London cycling plans and projects



LondON Bikes Cycling Master Plan, Queens & Colborne from WSP, King Street image by Dave McLaughlin,/WSP

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Dundas cycle track project history

The Dundas Street Cycle Track Detailed Design project is a continuation of the planning and design study from the Downtown OEV East-west Bikeway Corridor Evaluation project undertaken by WSP



Parking supply and demand confirmation

From previous work in the City on cycling and transit projects, our team recognizes the importance of on-street parking in support of the diverse land uses and businesses along Dundas

Supply confirmation

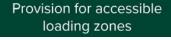
Coordinate with the design team and accurately confirm parking supply based on the new design



Demand confirmation

Conduct surveys to validate the City's existing parking utilization data Consider new on-street parking opportunities

Consider new and existing off-street parking opportunities



Alternative Parking Strategies

Where physical design cannot offset reduced parking and loading supply, alternative strategies will be investigated and recommended

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Cycle track design philosophy

DESIGN CYCLIST

Interested but Concerned

51-56% of potential users

Somewhat Confident



Fearless Confident



Lower stress tolerance Higher stress tolerance

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Preliminary separation types for consideration

Precast concrete curb and bollards





Fully raised cycle track

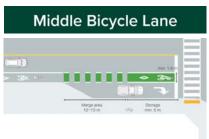
London Colborne separated bikeway by Stephen Tam/WSP, Ottawa Main Street Cycle Track by James Schofield/WSP

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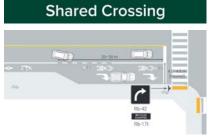
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Intersection design is context specific

Setback Crossing Small coner radius (4-8 m) 13-15 RB-77 (TAC) RD-73







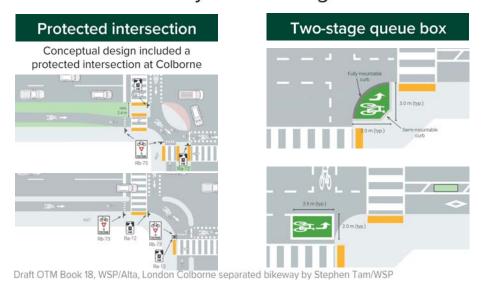
Important for all ages and abilities facility design

Context specific: Each design will consider the intersection's unique characteristics such as current traffic volumes, potential cyclist movements, existing phasing, geometry, etc.

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Supporting cycling turning movements

Key intersections such as Colborne/Dundas and William/Dundas will need to facilitate cyclists turning movements at cross-streets

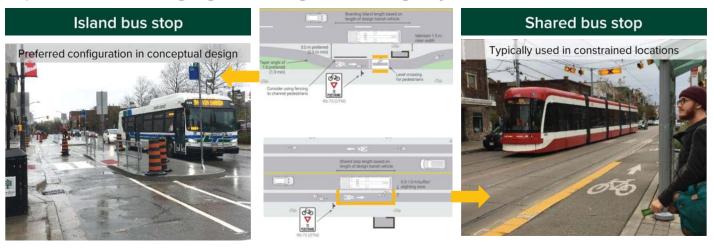




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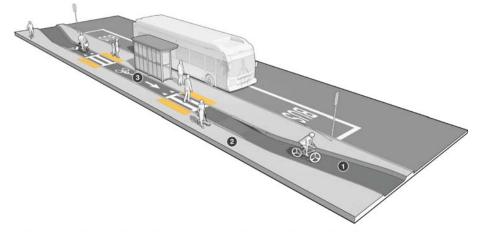
Integration with transit and LTC

Dundas is a major transit route through London today and into the future. With an anticipated increased sustainable mode share in London, it is important to leverage good design to manage cyclist interactions



Raised cycle track bus stop design

Based on conversations with LTC regarding operating experience on King Street, raising the cycle track on approach to the bus stop may help reduce cyclist speed and reinforce yielding behaviour.





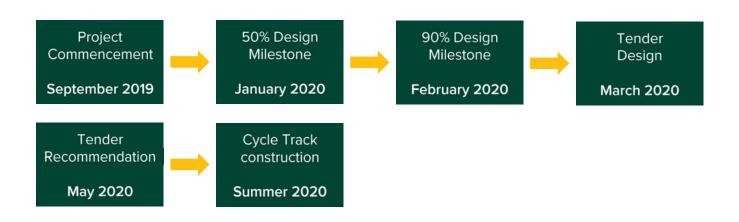


MassDOT Separated Bike Lane Guide Chapter 5, Twitter: Will Norman/Tfl, James Schofield/WSP

12/18/2019

13

Project timeframe



Public engagement
Throughout the entire design phase of the project

We're asking for your input

Our team is currently evaluating these design options with City staff in preparation for the 50% design. We are requesting the Cycling Advisory Committee's feedback throughout the design process.

- Are there lessons learned you would like to share from Colborne, King Street or other London cycling projects?
- Are there specific sections of Dundas or William that may present significant technical challenges?
- Are there other reference designs outside London that could be considered?
- Are there other project issues the team should be aware about?

12/18/2019

15

Thank you!

London Transportation Planning & Design

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