

EAST-WEST

CYCLING CORRIDOR PROJECT

STAKEHOLDER PRESENTATION MAY 28, 2020

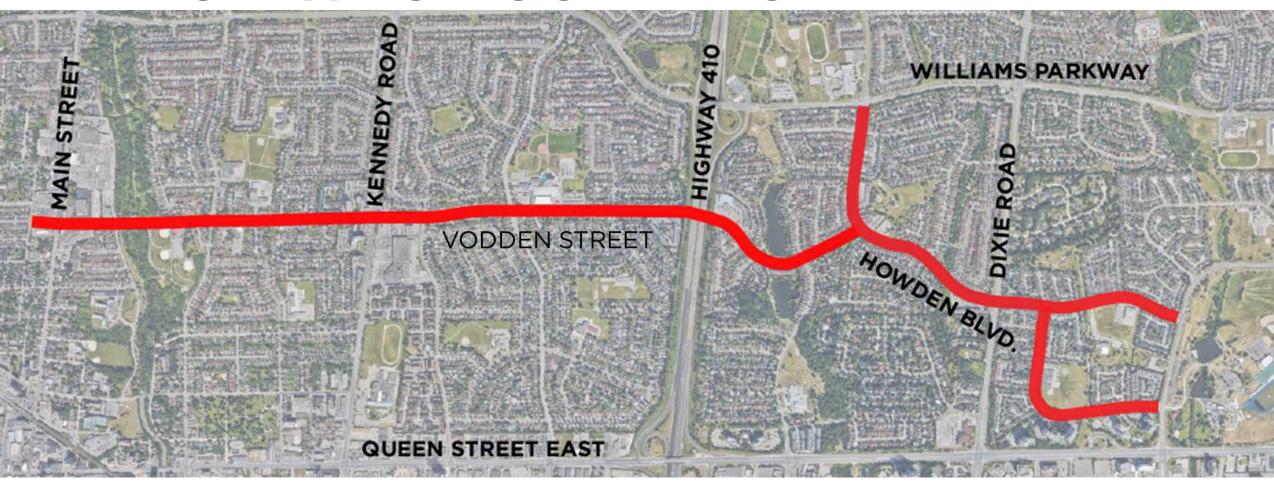


PROJECT AGENDA

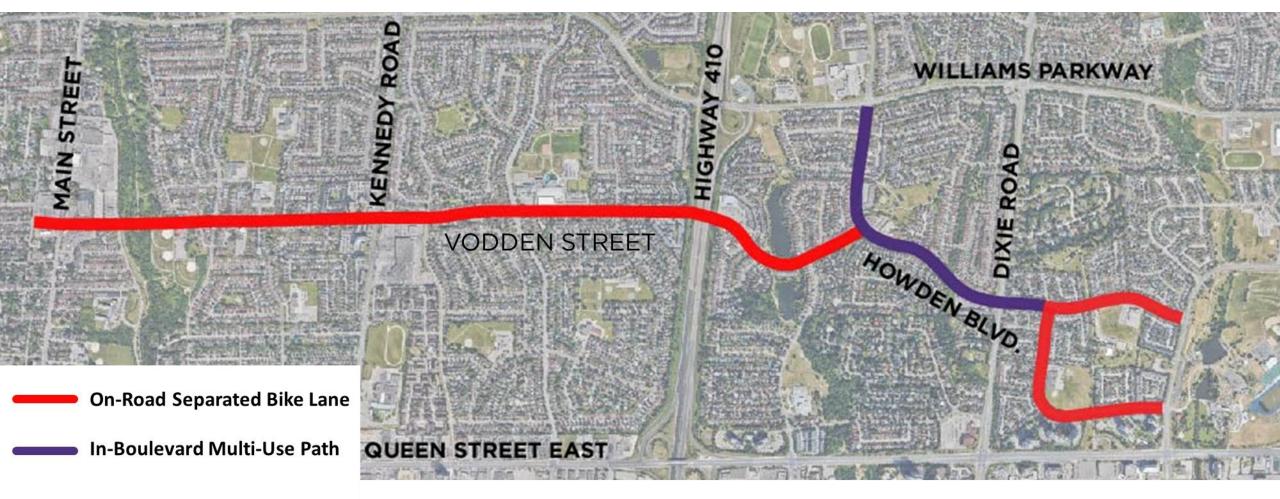
- East-West Corridor
- 2. Goals and Guiding Principles
- 3. Benefits of Active Transportation
- 4. Design Considerations
- 5. Vodden Street
- Howden Boulevard
- 7. Hanover Road
- 8. Project Timeframe
- 9. Public Consultation
- 10.Next Steps



EAST-WEST CORRIDOR



EAST-WEST CORRIDOR



PROJECT GOALS AND GUIDING PRINCIPLES

Introduce new physically separated bike lanes

Reallocate roadway space to accommodate cycling infrastructure

Reduce vehicle speeds along the study area

Integrate the separated bike lanes with existing trails and bike lanes

BROADER MUNICIPAL VISION

BRAMPTON 2040 VISION

"In 2040, Brampton will be a mosaic of safe, integrated transportation choices and new modes, contributing to civic sustainability, and emphasizing walking, cycling, and transit."

BRAMPTON IS A GREEN CITY

Priorities:

- 1. Equalize all forms of transportation
- 2. Implement a green framework
- 3. Sustainable growth
- 4. Lead environmental innovation

BRAMPTON IS A HEALTHY AND SAFE CITY

Priorities:

- 1. Community partnerships
- 2. Streets for people
- 3. Local health solutions
- 4. Healthy citizens

BENEFITS OF A.T.



IMPROVES HEALTH

Encourages physical activity, combating obesity, type 2 diabetes, and cardiovascular disease



PROVIDES CHOICE

Offers greater flexibility in how people may choose to get around



LOWERS EMISSIONS

Eliminates emissions generated by motor vehicles that exacerbate air pollution and climate change



OPTIMIZES TRAFFIC

Diverts car trips, providing traffic capacity to accommodate essential motorized travel (e.g. emergency, transit, deliveries)



ENHANCES ROAD SAFETY

Ensures the protection of all travel modes particularly, those most vulnerable (e.g. cyclists and pedestrians)



SUSTAINABLE DEVELOPMENT

Supports active and sustainable lifestyles by providing facilities that allow people to feel comfortable

DESIGN CONSIDERATIONS

REDUCE MOTOR VEHICLE SPEEDS

- Design a traffic-calmed east-west corridor
- Reduce the width of vehicle travel lanes compared to lane widths that exist today
- High vehicle speeds has been a concern for local residents

IMPLEMENT A ROAD-DIET

- Due to excess capacity on Vodden Street, Hanover Road, and a segment of Howden Boulevard, remove 1 vehicle travel lane per direction
- Add centre left-turn lane to improve access for vehicles turning into residential and commercial driveways

PROVIDE PHYSICAL SEPARATION FOR CYCLISTS

- Provide horizontal and vertical separation between bikes and motor vehicles
- Use of precast concrete curbs and flexible bollards to physically separate bike lanes from motor vehicles

ACCOMMODATE USERS OFF-ROAD ALONG HOWDEN BOULEVARD

- Due to existing traffic volumes along Howden Boulevard, an in-boulevard facility is preferred to an on-road separated bike lane
- Accommodates users of all ages and abilities
- Sufficient space in boulevard to accommodate the facility

DESIGN CONSIDERATIONS

PHYSICAL SEPARATION



FLEXIBLE BOLLARDS

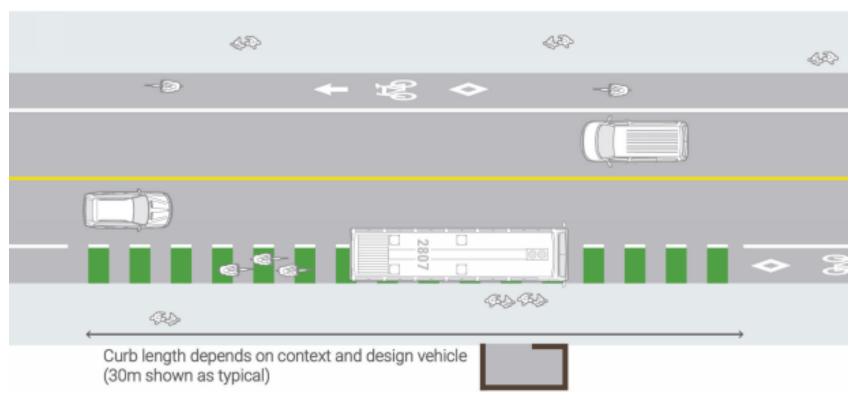


PRECAST CONCRETE CURBS



PRECAST CONCRETE CURBS WITH FLEXIBLE BOLLARDS

DESIGN CONSIDERATIONS BUS STOP TREATMENTS



DESIGN HIGHLIGHTS

- Dashed green
 pavement markings
 Identify locations where
 a bus is expected to
 encroach into the bike
 lane
- Avoid creating transit bays by shifting the buffer width to the opposite side of the road
- Maintain curbside operations

DESIGN CONSIDERATIONS BUS STOP TREATMENTS

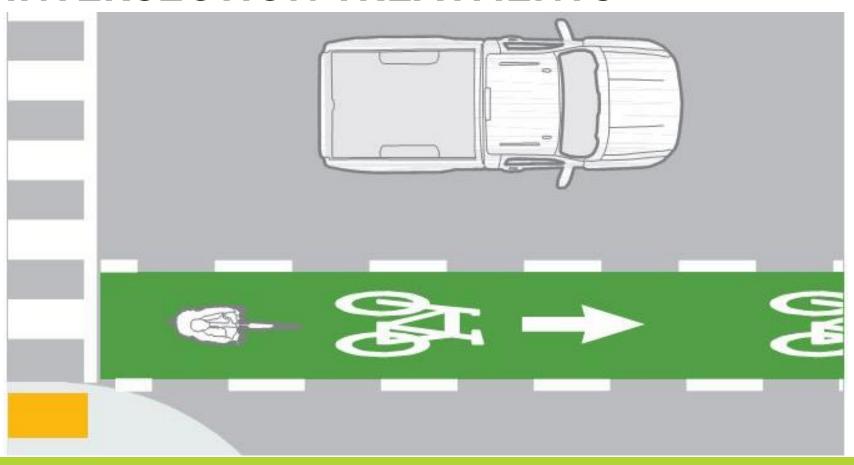


DESIGN HIGHLIGHTS

(Vodden/Laurelcrest Bus Stops)

- Dashed green pavement markings
- Buffer width reallocation
- Maintain curbside operations
- Bus to partially block dedicated right-turn lane, ensuring turning vehicles cannot pass when stopped

DESIGN CONSIDERATIONS INTERSECTION TREATMENTS



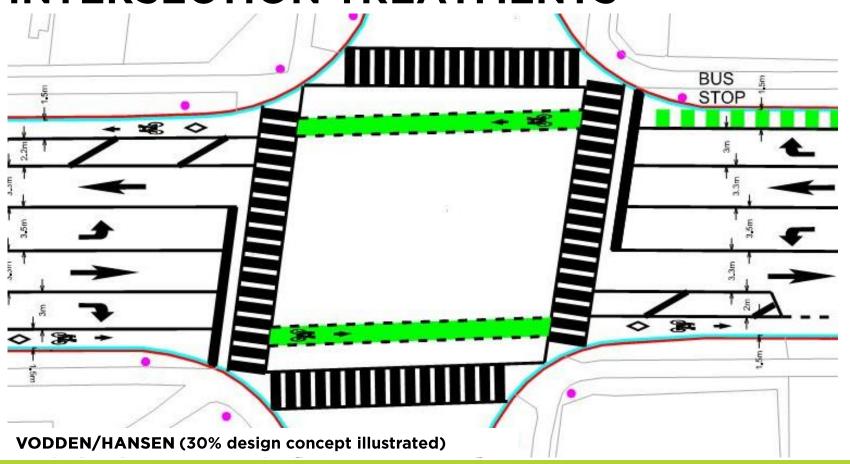
DESIGN HIGHLIGHTS

(Signalized Intersections)

- Solid green surface treatment
 - Identifies a conflict zone where the motor vehicle and cycling paths of travel intersect
- Dashed Guide Lines

Provide guidance to people cycling through an intersection.
Treatment includes directional arrow and bicycle stencil

DESIGN CONSIDERATIONS INTERSECTION TREATMENTS

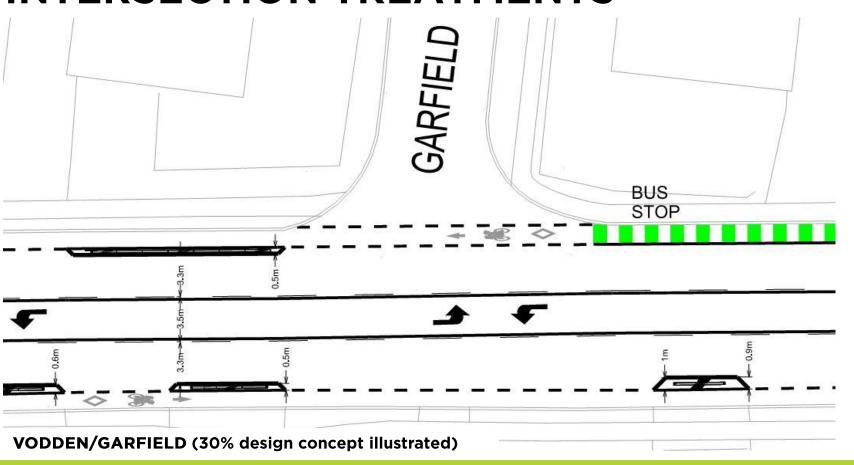


DESIGN HIGHLIGHTS

(Vodden/Hansen)

- Solid green surface treatment
- Dashed guide lines
- Offset buffer to accommodate bus stop treatment
- Introduction of new right-turn lanes

DESIGN CONSIDERATIONS INTERSECTION TREATMENTS

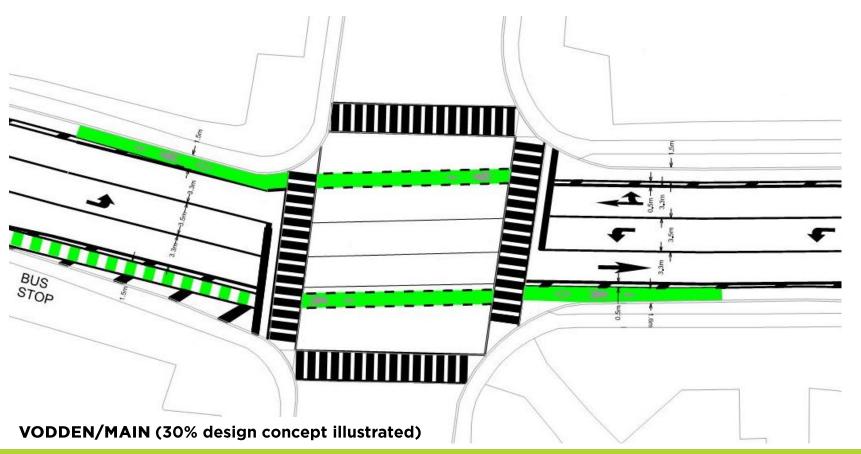


DESIGN HIGHLIGHTS

(Unsignalized Intersections)

- Directional Arrow,
 Bicycle Stencil, and
 Diamond
 Directional guidance for cyclists
- Dashed Guide Lines
 Provide guidance to people cycling through an intersection, denoting the cycling path

DESIGN CONSIDERATIONS VODDEN/MAIN INTERSECTION



DESIGN HIGHLIGHTS

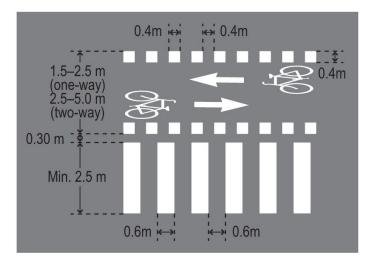
Road-diet treatment
Remove 1 eastbound lane
along Vodden

Improve intersection

skew condition

Design seeks to minimize the skew of this intersection by utilizing the hatched buffer to improve alignment of vehicle travel lanes

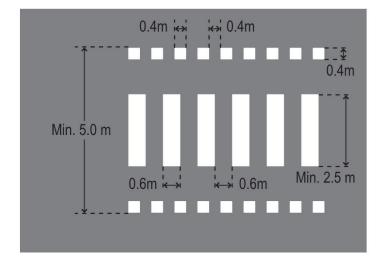
DESIGN CONSIDERATIONS CROSSRIDE TREATMENTS



SEPARATE CROSSRIDE

Provides a separate space for pedestrians and cyclists and may be used at signalized and unsignalized locations.

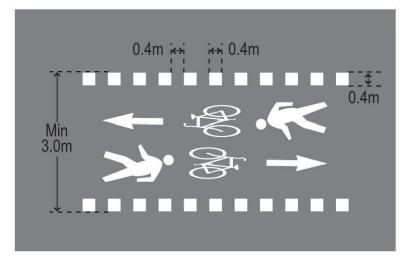
- Howden/Hanover
- Howden/Dixie (regional intersection)



COMBINED CROSSRIDE

May be used at signalized and unsignalized locations where pedestrians and cyclists approach the crossing on a shared facility.

- Howden/Vodden
- Vodden/Ken Whillans



MIXED CROSSRIDE

Intended for low-volume unsignalized crossings, with pedestrians and cyclists operate in a shared space.

- Howden/Lindridge
- Howden/La France
- Howden/Heath

DESIGN CONSIDERATIONS MAJOR DRIVEWAY TREATMENTS



DESIGN HIGHLIGHTS

(Commercial/Institutional Driveways)

- Directional arrow, bicycle stencil, and diamond
- Solid green surface treatment
- Dashed guide lines

DRIVEWAY AT LESTER B. PEARSON ELEMENTARY SCHOOL (30% design concept illustrated)

DESIGN CONSIDERATIONS IN-BOULEVARD MULTI-USE PATH

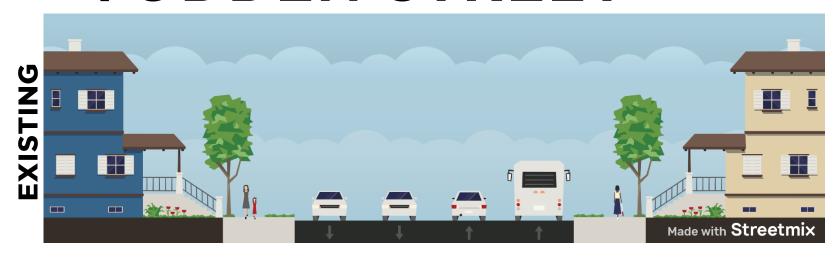


DESIGN HIGHLIGHTS

(Howden Boulevard Only)

- Williams Parkway Hanover Road (1 side only)
- Existing 1.5 metre sidewalk to be replaced with 3.0 metre asphalt multi-use path
- Removal of 1 vehicle lane in each direction on Howden would result in significant vehicle queueing at select intersections

VODDEN STREET



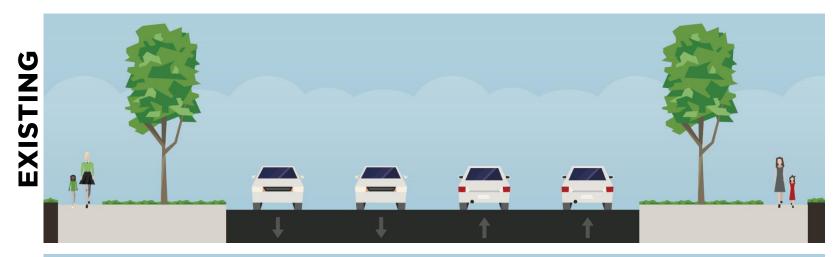


KEY CONSIDERATIONS

- 3.7KM corridor
 Isabella St. Howden Blvd.
- Transit RouteBrampton Transit route 9
- Highway 410 Crossing
 No highway interchange
- Trail Connectivity
 Etobicoke Creek Rec. Trail
 Esker Lake Rec. Trail
- Emergency Services Corridor Brampton Fire Station 207



HOWDEN BOULEVARD

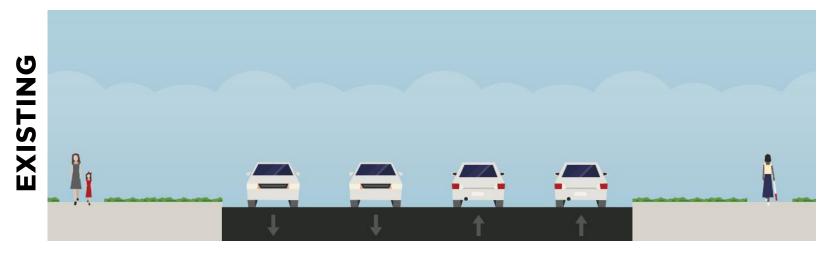




KEY CONSIDERATIONS

- 2.1KM corridor
 Williams Pkwy. Central Park Dr.
- In-Boulevard Multi-Use Path
 Williams Pkwy. Hanover Rd.
- On-Road Bike Lanes
 Hanover Rd. Central Park Dr.
- Transit Route
 Brampton Transit route 9 & 17
- Schools along Corridor
 Lester B Pearson Elementary
 School
 North Park Secondary School

HANOVER ROAD







KEY CONSIDERATIONS

- Hanover (1KM corridor)
 Howden Blvd. Central Park Dr.
- Transit RouteBrampton Transit route 17
- Access to Chinguacousy Park
 Major recreational and trail
 facilities
- Elementary School
 Hanover Public School
- High Density Residential
 Buildings

Separated bike lanes accessible to a large number of residents

INTERIM BIKE LANES



INTERIM BIKE LANES



PROJECT TIMEFRAME

SUMMER 2020 Detailed design work scheduled to be completed

SUMMER/FALL 2020 Phased implementation to begin (road-diet pavement markings along Vodden Street, Howden Boulevard, and Hanover Road)

SPRING/SUMMER 2021 Implementation of precast concrete curbs and flexible bollards, and construction of Howden Boulevard multi-use path



METROQUEST SURVEY

Webpage to be live shortly, with a link on the City's project webpage.



PROJECT POSTCARD

Brief project overview and study area map, mail to all addresses along east-west corridor.



Cancelled as a result of COVID-19.

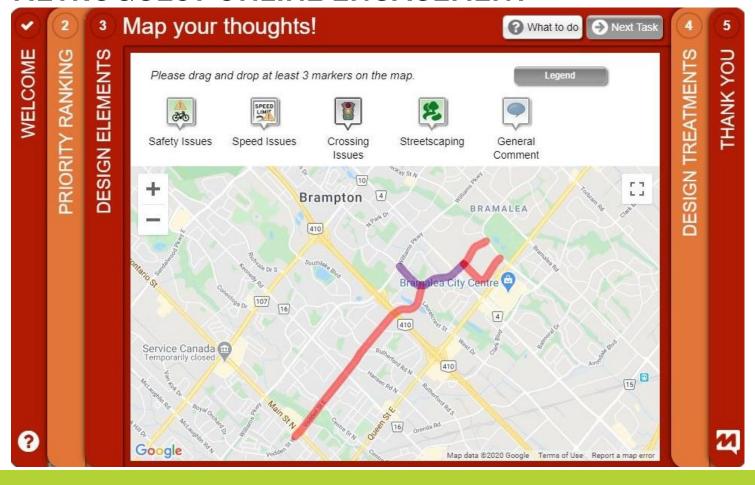
METROQUEST ONLINE ENGAGEMENT



PRIORITY RANKING EXERCISE

- Solicit priorities from participants
 Identify priorities among participants related to design considerations
- Understand what is important
 Allows the project team to
 understand what participants
 value most and which
 considerations are priorities

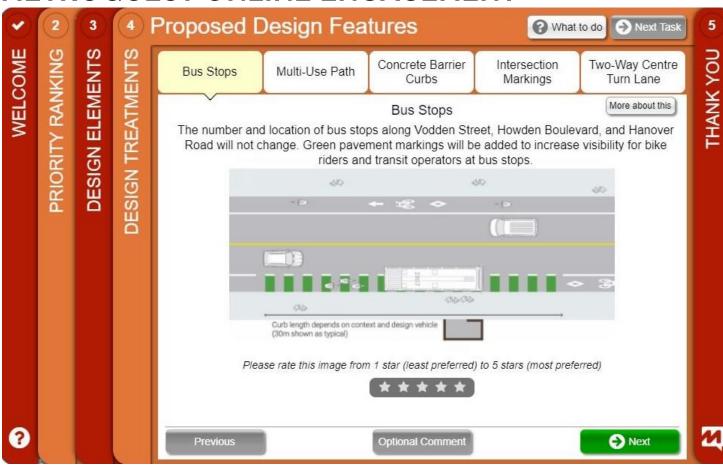
METROQUEST ONLINE ENGAGEMENT



INTERACTIVE MAPPING EXERCISE

- Location-specific commenting
 Tool allows participants to pinpoint exact locations where they have experienced issues with safety, speeding, or crossing locations
- Allows participants to share intimate knowledge of the eastwest corridor with project team based on lived experiences

METROQUEST ONLINE ENGAGEMENT



DESIGN TREATMENT PREFERENCES

- Presents participants with design treatments that have largely been decided upon and are being applied across the east-west corridor
- Better understand participants' views towards selected design treatments to identify whether major concerns exist
- Allows project team to respond to concerns with proposed design features and treatments

NEXT STEPS

We are looking for any feedback that you may have, as well as any considerations you'd like to share with the project team.

Please provide any feedback or questions to Nelson Cadete by **June 5th**.

CONTACT US

Nelson Cadete

Project Manager, Active Transportation Planning & Development Services City of Brampton



nelson.cadete@brampton.ca

J. David McLaughlin

National Active Transportation Practice Manager & Senior Project Manager WSP

905-882-7306

dave.mclaughlin@wsp.com





QUESTIONS?

