

RECONSTRUCTION OF ST. CLAIR & LITE STREET

January 5th, 2023



Overview



SCOPE OF WORK



DESIGN FEATURES



COST & TIMELINE



FUTURE WORKS



SCOPE OF WORK

Scope of Work

Surface Works:

- Place new road base and asphalt pavement
- Form and place new concrete curbs
- Form and place new concrete sidewalks
- Place new asphalt multi-use pathway
- Apply line painting
- Install signage
- Restore all boulevards to grass
- Plant boulevard trees in select locations

Please refer to drawing set provided.

Watermain Works:

- New watermain including all appurtenances (hydrants, valves, etc.)
- New water services to property line including new curb stops

Sanitary Works:

- Locate and replace all deficient sanitary clean-outs at property line
- Install new sanitary clean-outs at property line where none exist

Stormwater Works:

- Install new storm main on Lite Street including all appurtenances (manholes, catchbasins and leads, etc.)
- Install new storm services and clean-outs at property line





DESIGN FEATURES

Design Features – Overview

Road Features:

- 90-degree approaches at side street intersections
- Road and lane narrowing throughout ("road diet")
- Intersection bulb-outs
- Dedicated centre left-turn lane along Lite Street
- Elimination of redundant commercial entrances

Pedestrian Safety Features:

- 1.5m wide sidewalks
- AODA ramps and tactile plates where applicable
- Reduced crosswalk distances
- Dedicated raised pedestrian mid-block crossing
- Multi-use pathway

On-Street Parking Features:

- Marked parking lanes in select locations
- Accessible on street parking in select locations
- Elimination of on-street parking on curves

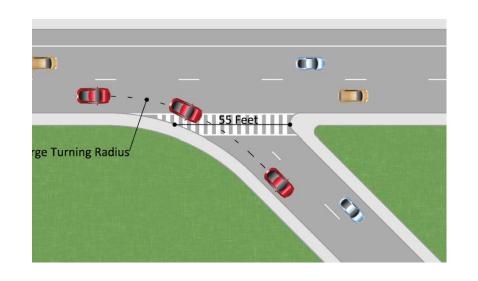
Other Features:

- Expanded boulevard paving in commercial areas
- Additional boulevard trees in select locations
- Additional boulevard greenspace (grass)

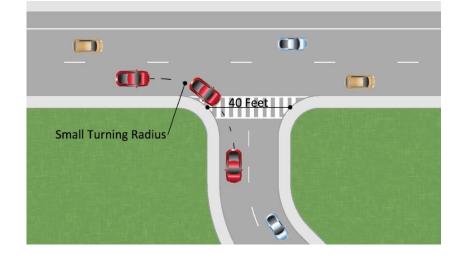
Please refer to notes in drawing set provided.



Design Feature – 90° Intersections







Applicable Intersections:

- Charles Street at St. Clair Street
- Albert Street at St. Clair Street
- Helena Street at Lite Street

- Speed reduction
- Reduction in pedestrian crossing lengths
- Improved pedestrian visibility

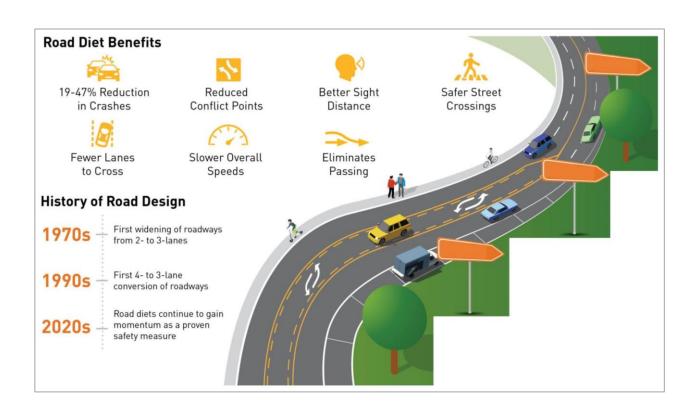


Design Feature – Road Diet / Narrowing

Locations of Road Dieting / Narrowing:

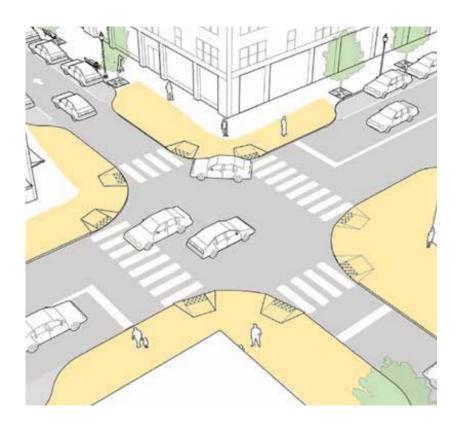
- Throughout the length of St. Clair Street from Michigan Avenue to Lite Street
- Throughout the entire length of Lite Street from Helena Street to Front Street North

- Speed reduction and improved safety along curves in road
- Reduction in O & M costs
- Reduction in long-term capital replacement costs
- Reduction in solid surface area (climate change adaptation)





Design Feature – Bulb-Outs



Locations of Bulb-Outs:

- St. Clair Street at Michigan Avenue
- St. Clair Street at Alexandra Avenue
- St. Clair Street at Charles Street
- St. Clair at Albert Street
- St. Clair Street at raised mid-block pedestrian crossing

Advantages:

- Speed reduction at intersections
- Reduction of pedestrian crossing lengths
- Improved pedestrian visibility
- Improved sightlines at intersections (elimination of parked cars near intersections)



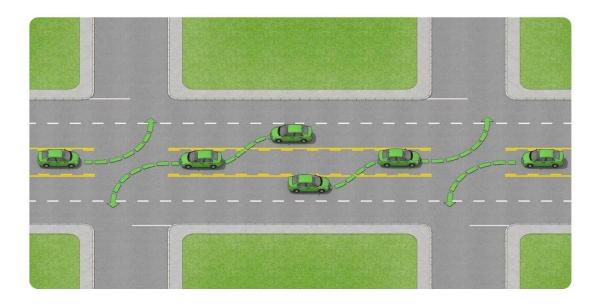


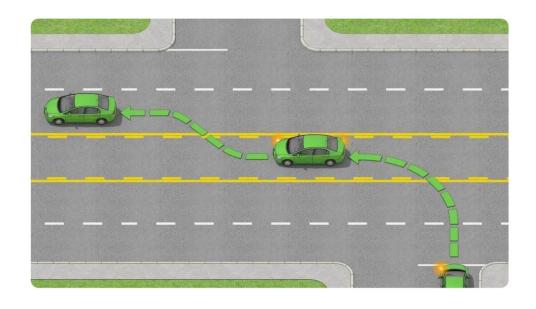


Design Feature – Left-Turn Lane

Location of Dedicated Centre Left-Turn Lane:

- Lite Street from Front Street North to Helena Street
- St. Clair Street from Helena Street to Iron Works





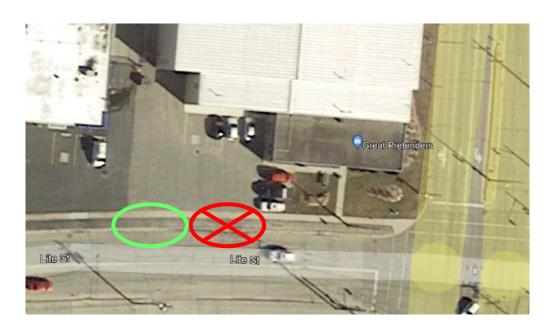
- Improved traffic flow/continuity
- Reduction in traffic congestion in commercial area



Design Feature – Redundant Driveways

Location of Redundant Commercial Driveways:

- Iron Works/Cross Works Physiotherapy (from 3 to 2 entrances)
- 714 Lite Street at Front Street North (from 2 to 1 entrances)





- Improved traffic flow/continuity with left-hand lane
- Improved traffic safety on curve
- Reduce congestion at Front Street North intersection



Design Feature – Sidewalks

Location of Sidewalk Improvements:

- 1.5m wide concrete sidewalks throughout
- Dropped curbs and tactile indicators at all controlled intersections and raised mid-block crossing
- Separation and barriers between sidewalk and commercial parking lots along Lite Street

Advantages:

- Improved accessibility and pedestrian experience
- AODA and OTM compliance
- Improved pedestrian safety





Design Feature – Mid-Block Crossing

Raised Pedestrian Mid-Block Crossing Location:

 At 517 St. Clair Street across to the Bluewater Bridge Maintenance Building





- Connectivity to new multi-use pathway
- AODA and OTM compliance
- Improved pedestrian safety
- Reduced pedestrian crossing length
- Speed reduction



Design Feature – Multi-Use Pathway

Multi-Use Pathway Location:

- From the Veteran's Memorial Park on St. Clair
 Street to Lite Street
- From Lite Street to Front Street North

Advantages:

- Improved pedestrian and cyclist connectivity
- AODA and OTM compliance
- Grant funding available



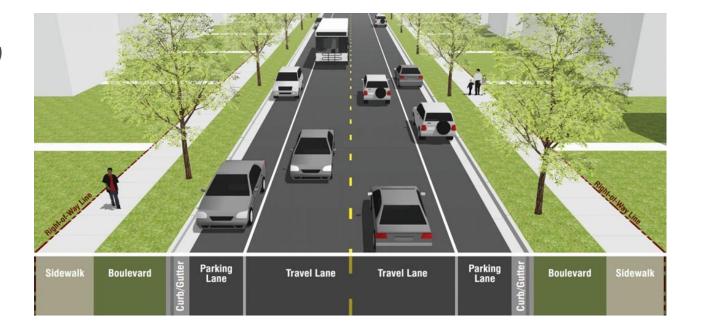


Design Feature – Marked Parking Lanes

Locations of Marked On-Street Parking Lanes:

- St. Clair Street between Michigan Avenue and Alexandra Avenue (double)
- St. Clair Street from Charles Street to Albert Street (single)
- St. Clair Street from Albert Street to 2nd curve (single)

- Perceived road narrowing = Speed reducing effect
- Reduction of on-street parking in undesirable locations





Design Feature – Accessible Parking

Location of Marked Accessible Parking Spaces:

- In front of Stevie D's on St. Clair Street (1 total)
- In front of Ice Cream Galore/Hair Boutique on St. Clair Street (1 total)

Advantages:

 Improved accessibility/reduction of barriers in commercial areas



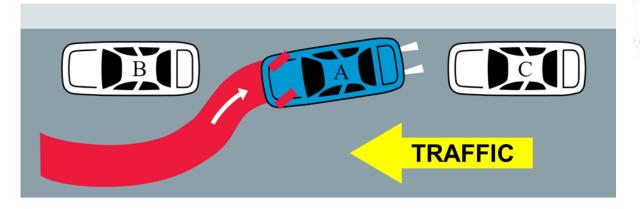


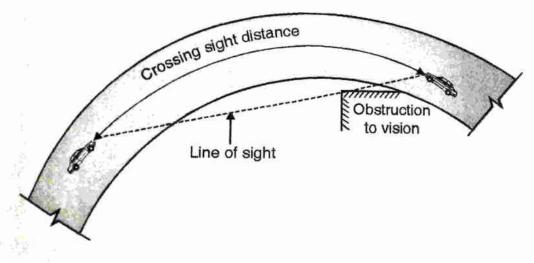


Design Feature – Parking on Curves

Location of Eliminated On-Street Parking on Curves:

- St. Clair Street from Public Works to Stevie D's
- Both sides of St. Clair Street from Alexandra Street to Charles Street





- Improved line of sight/safety
- Potential reduction in traffic collisions



Design Feature – Others

Additional Design Features:

- Expanded boulevard paving in front of Ice Cream Galore on St. Clair Street
- More greenspace (grass) and street trees in boulevards



Associated Benefits:

- Improved streetscape aesthetic/pedestrian experience
- Reduction of pavement temperatures (climate change adaptation)
 - Improvement of air quality (climate change adaptation)
 - Food and habitat for wildlife







COST & TIMELINE

Cost – Estimate

Construction Estimate:

- \$4,714,905 based on 2022 construction contracts
- Includes roads, curbs and gutter, watermain, water services and curb stops, storm services and clean-outs, sanitary clean-outs, sidewalks, multi-use pathway, and boulevard restoration.
- Includes 25% contingency
- HST additional

Professional Services:

- \$707,235.51 based on 2022 pricing
- Includes detailed designs and drawings, preparation of tender documents and quantities, contract administration and inspection services.
- Includes geotechnical testing and archaeology allowance
- Includes 25% contingency
- HST additional



Timeline

Timeline:

- Public Meeting January 2023
- Detailed Design January to March 2023
- Tendering March to April 2023
- Construction Spring to Summer 2023





Future Works – Additional 90° Intersection

Location of Additional 90-Degree Intersection:

Louisa Steet at Helena Street intersection

Advantages:

- Speed reduction at intersection
- Reduction of pedestrian crossing length



Future Works – Passive Park

Location of Future Passive Park:

- West side of St. Clair Street at Charles Street Intersection
- East of arena parking lot
- South of Veteran's Memorial Park

Advantages:

- Improved pedestrian and cyclist connectivity
- Grant funding available
- Increased community greenspaces
- Emergency access to arena
- Outdoor space for community and/or private events

Please refer to concept drawing provided.





THANKYOU

Questions or Comments?

