

GODERICH







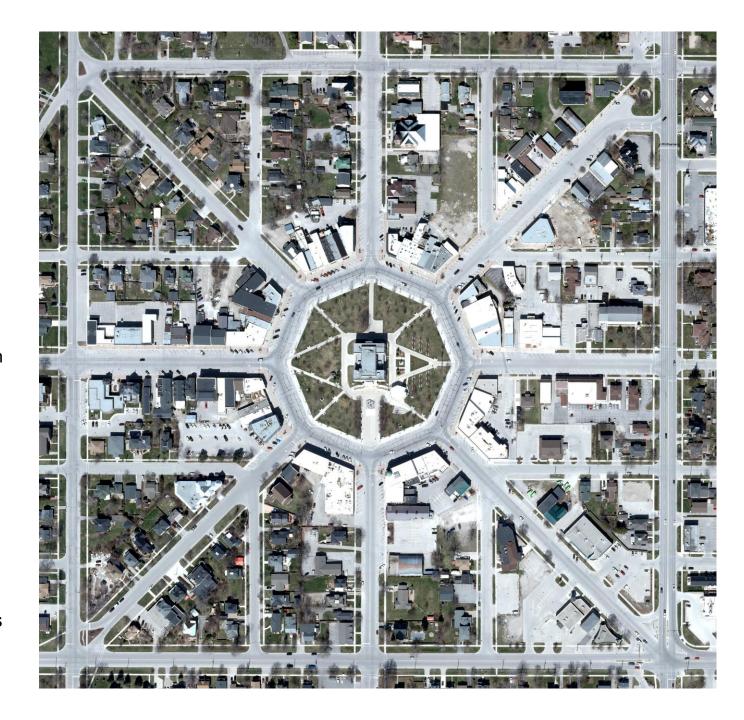
DOWNTOWN STREETSCAPE

Rebuilding Downtown Infrastructure

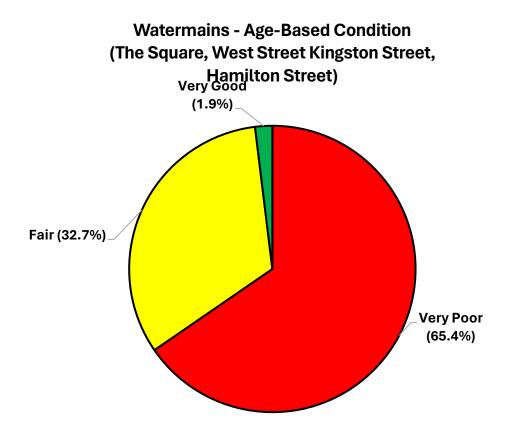
June 1, 2023 – Goderich Strategic Action Plan - 4 year priority setting. Goal #1 = Safe and Reliable Infrastructure

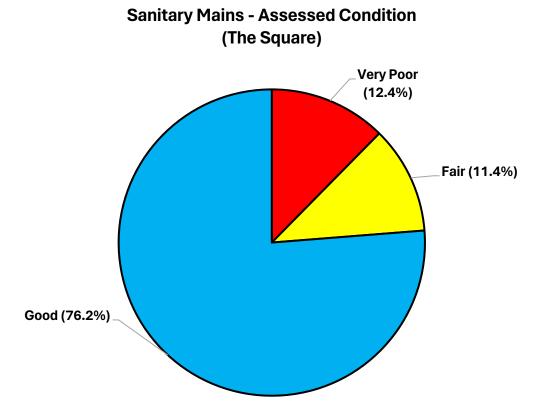
Subsection 1.1 – Taking a long-term perspective and an evidence-based approach to managing municipal infrastructure. Key elements:

- a) Engage a design/engineering firm to work with Town staff to produce a comprehensive "Rebuilding Downtown Infrastructure" plan that includes future state design concepts and options, associated costs with high level phases/milestones. The outcome of this process will be a costed out Preferred Option.
- b) Establish a Rebuilding Downtown Infrastructure **Task Force** with citizen participation with a mandate to facilitate public discussion and inform the Project Team (design/engineering firm & Town staff) throughout the process.
- c) Council makes decision on the Rebuilding Downtown Infrastructure Preferred Option. Initiate communications strategy with residents and downtown businesses.
- d) Complete a go forward plan with priorities and costing to extend water/wastewater services.



Infrastructure Management – Time to Replace

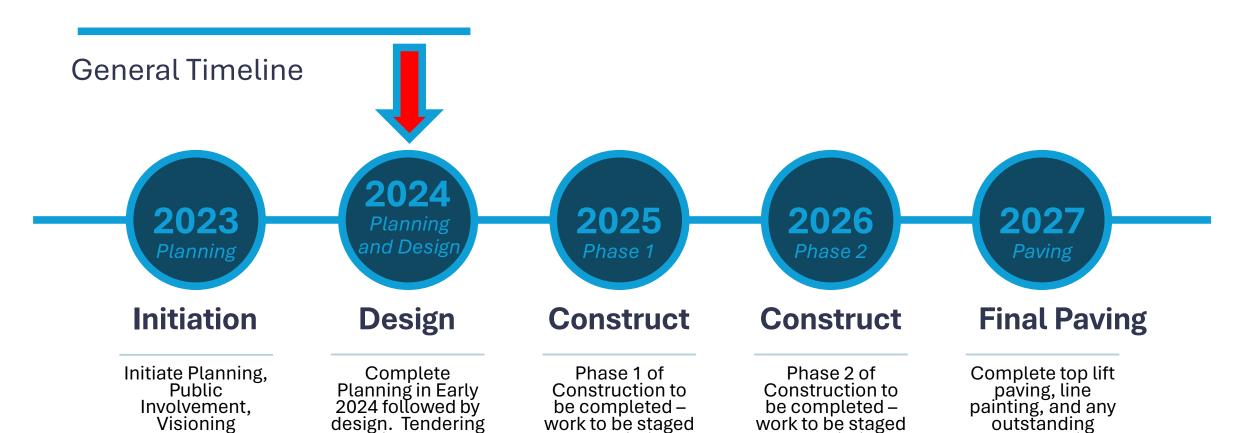




High-Level Phasing

Processes

in fall.



work to be staged

to maximize

public access

to maximize

public access

streetscaping

Project Team

- Council and Staff
- Task Force Representation from BIA, Chamber, and Citizen Member
- BMROSS Engineering and Planning
- GSP Urban Planning and Landscape Architecture



Director of Community

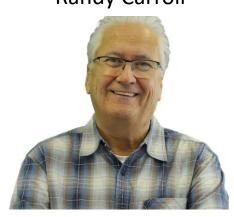
Christopher Spaleta

Citizen Appointment



Mayor Trevor Bazinet





Councillor



Councillor

Services, Infrastructure and Rebuilding Downtown Infrastructure Task Force

Operations

Vicky Culbert **BIA Appointment**



Janice Hallahan CAO



Chamber of Commerce

New Appointment Pending



Director of Legislative Services/Clerk

Engineering Team

BMROSS



Dale ErbP Eng
Principal and Senior Engineer

Role: Project Manager



Dennis Elliott

Senior Project Manager

Role: Design Manager

GODERICH PROJECT LEADER



Ryan Reihl
C.E.T.
Senior Engineering Technologist

Role: Designer



Matt Pearson

RPP

Senior Planner

Role: Facilitator

Engage Urban Planner / Landscape Architect

GSP



Mark Zuzinjak
OALA, CSLA
VP, Landscape Architecture

Role: Project Manager



Raj Mohabeer
OALA, CSLA, MCIP, RPP,
LEED®AP
Urban Design Leader

Role: Charette Lead



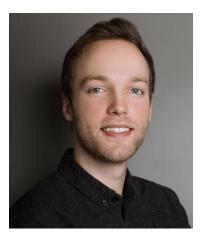
Jennifer Hachler
OALA, CSLA
Landscape Architecture
Manager

Role: Streetscape Lead



Brendan te Brinke
OALA, CSLA
Sr. Landscape Architect

Role: Streetscape Designer



Owen Wheeler

Landscape Designer

Role: Streetscape Designer

Task Force Visioning Exercise





DESIGN CHARRETTE - EDUCATION AND IDEAS EXCHANGE

| Time | Day 1 - Education and Vision Tuesday, November 28, 2023 | | Day 2 - Typical Street Section Wednesday, November 29, 2023 | | Day 3 - The Concept Plan Thursday, November 30, 2023 | | Day 4 - Production | |
|-------------|---|--------------------------------------|--|---------------------------------|--|-------------------------------|------------------------------|---------------------|
| | | | | | | | Friday, Decen ber 1, 2023 | |
| 9:00-10:00 | | | | LTATION Property Owners | CONSUI Downtown Core | | DRAFT Concept Plan | Public consultation |
| 10:00-11:00 | | | | LTATION siness – Restaurants | CONSUI Downtown Core Bu | | DRAFT Concept Plan | Public consultation |
| 11:00-12:00 | | f invited parties and photographs | | .TATION Business – Offices | CONSU Downtown Core | TATION Jusiness – Offices | DRAFT Concept Plan | Public consultation |
| 12:00-1:00 | | | Public co | ısultation | Public co | sultation | Public cor | sultation |
| 1:00-2:00 | Working lunc | with tour group ssues exercise | | .TATION usiness - Retailers | CONSU Downtown Core E | TATION usiness - Retailers | Councillo | Session |
| 2:00-3:00 | | | Public co | ısultation | Public co | ısultation | Prep Streetscap presen | · · |
| 3:00-4:00 | Meet with Pub | c Works and Parks | Develop Typical | Cross Section(s) | DRAFT Concept Plan | Public consultation | | |
| 4:00-5:00 | | | | | DRAFT Concept F | an Development | | |
| 5:00-6:00 | | | | | | | | |
| 6:00-7:00 | | ublic presentation cape 101" | PIN UP SESSION | Public consultation | PIN UP SESSION | Public consultation | Closing pre Streetscape (| |
| 7:00-8:00 | Public consultation | | Public consultation | | Public consultation | | | |

CONCEPT



2.6 m Parallel Parking

11.5 m ± Cart Path 5.5 m Angle Parking 3.9 m Typical Sidewalk

 $23.5\,\mathrm{m}\pm$



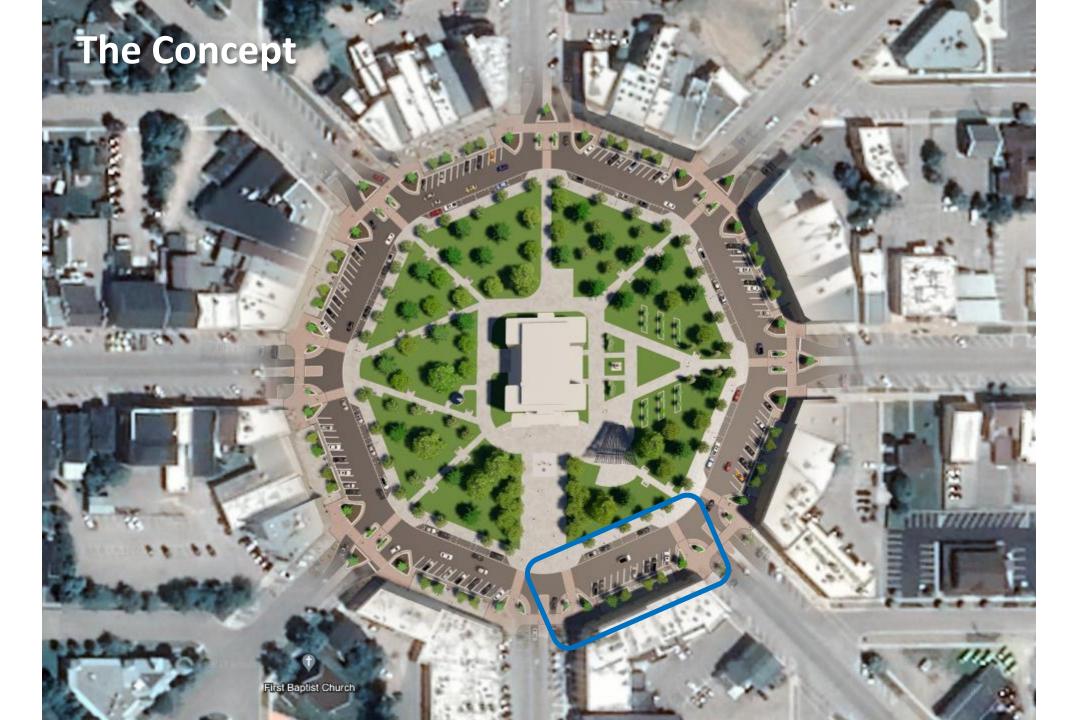






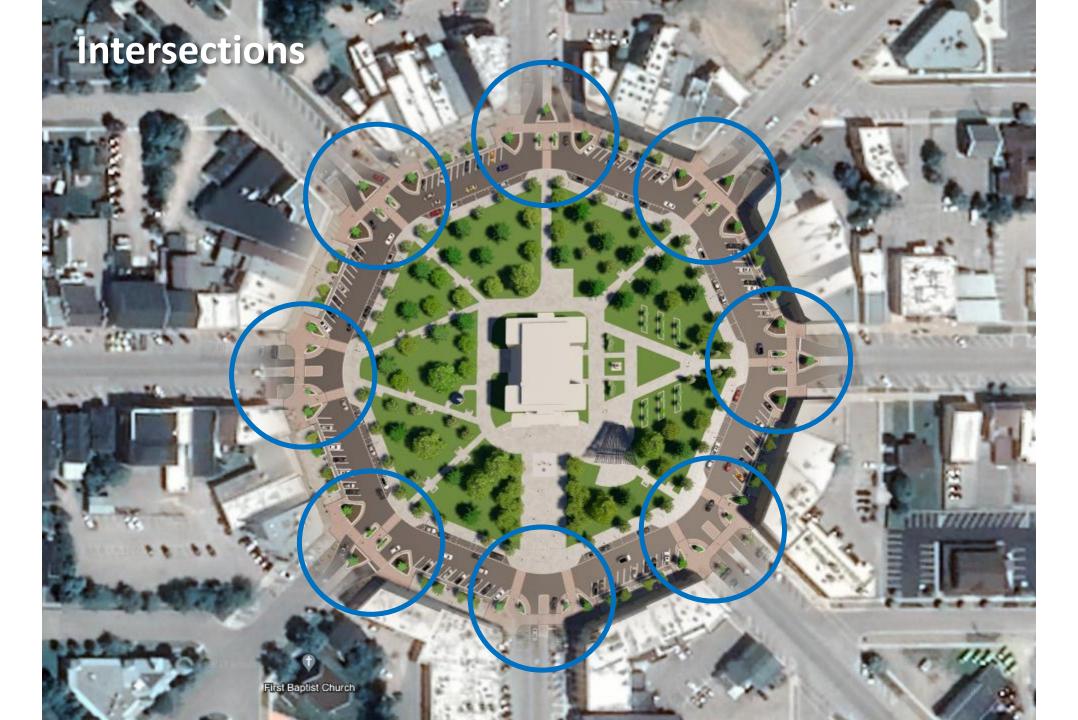








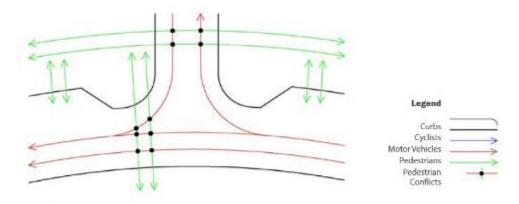






4.5 Intersection Designs Based on Minimizing Pedestrian Conflicts

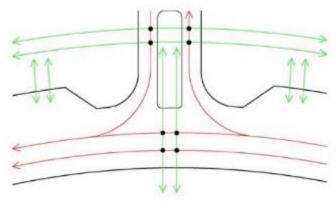
Existing pedestrian crossing conflicts.



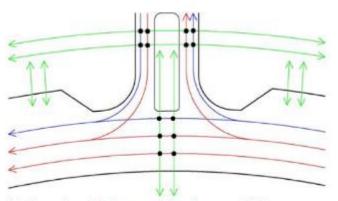
The intersection designs are focused on minimizing conflicts between pedestrians and circulating vehicles — note that bicycles are considered vehicles under Ontario's Highway Traffic Act. For the purpose of this analysis, only pedestrian conflicts are examined. Many vehicle to vehicle conflicts exist but are not shown.

In the existing condition where cycling paths are not differentiated from motor vehicle paths, ten pedestrian crossing conflicts exist. In the proposed design, without dedicated cycling facilities and with median island crossings refuge, eight crossing conflicts exist. If a one-way circulating cycling lane is introduced to the proposed design, the number of pedestrian crossing conflicts increases to fourteen. If two-way cycling facilities are introduced behind the curb (because contra-flow cycling facilities within the roadway creates many other vehicle to vehicle issues with parking), more than 24 conflict points exist as people exiting their cars will have to cross the path of cyclists.

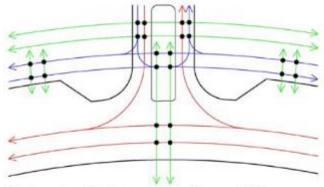
The intent of the proposed design is to create a street that operates at a low operating speed so cyclist feel safe in a shared environment that does not require dedicated cycling facilities. This reduces the number of conflicts for pedestrians and makes it safer for all users of the street.



Pedestrian crossing conflicts for proposed design without dedicated cycing facilities.



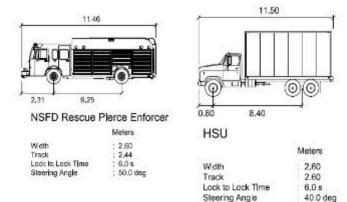
Pedestrian crossing conflicts for proposed design with one-way dedicated cycing facilities.

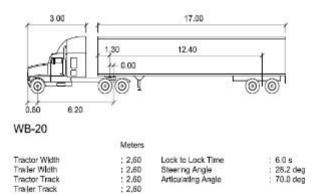


Pedestrian crossing conflicts for proposed design with two-way dedicated cycing facilities.

4.6 Turning Movements

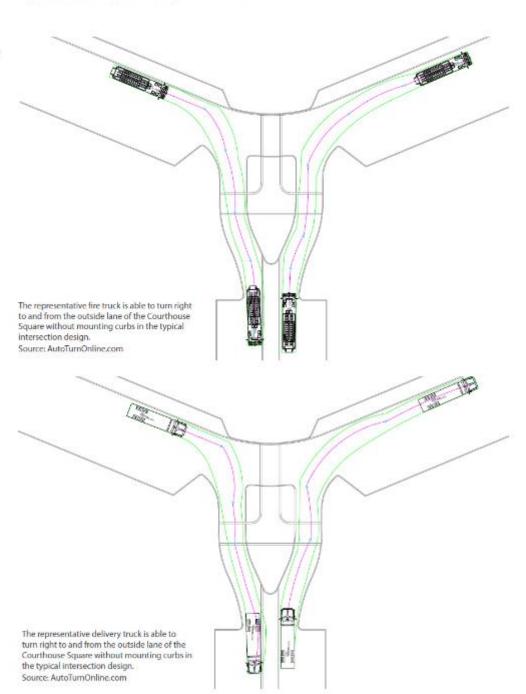
Two intersections have been designed within the streetscape. Both accommodate the swept path of delivery vehicles and the fire truck specified by the Town's Fire Department. One accommodates large wheelbase vehicles up to a WB20 tractor with trailer.

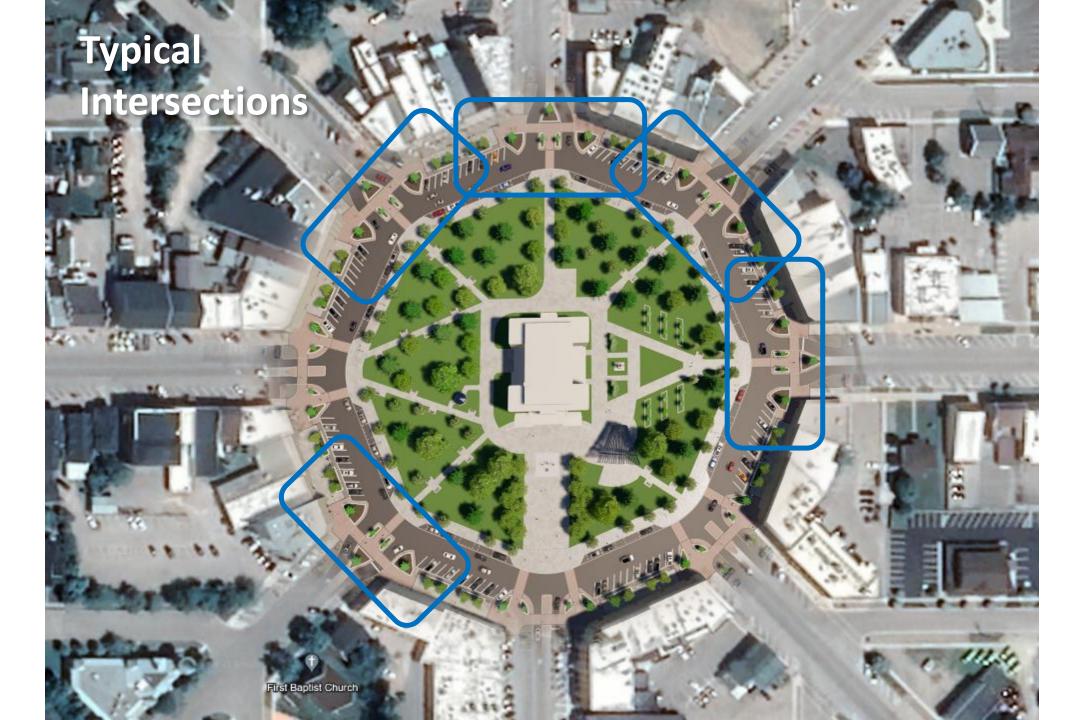




Representative vehicles from Autotum Online used to test turning movements. Source: AutoTurnOnline.com

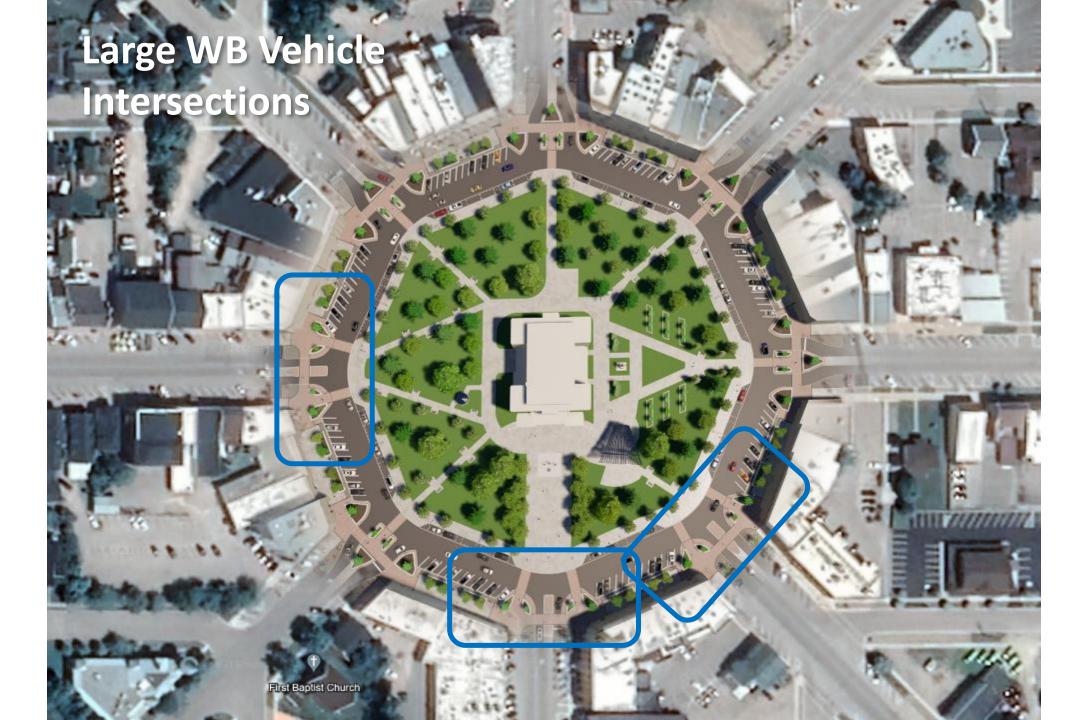
Typical Intersection Turing Movements













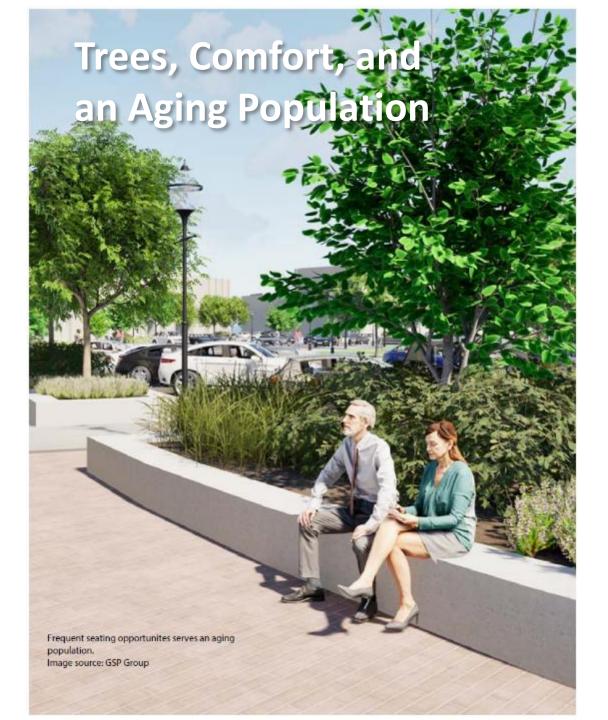


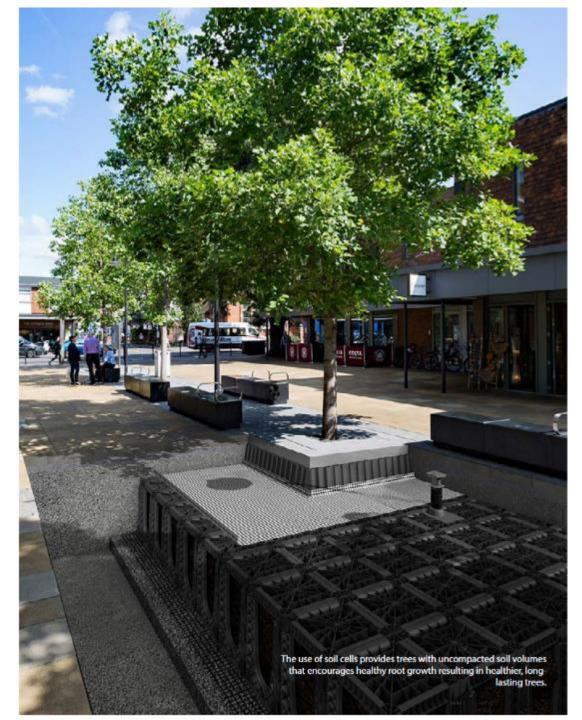


Ninety degree angle parking on intersecting streets can increase parking supply in the Courthouse Square area. This is only possible because of the generous travel lanes that allows motorists to turn into the spaces without encroaching into oncoming travel lanes. Image source: GSP Group.













Costing Elements

Below Ground

- Electrical Ducts
- Sewers and Watermain
- Road and Sidewalk Base
- Soil Cells / Structural Soils
- Irrigation

Above Ground

- Street Lighting
- Roadway and Parking
- Sidewalks and Boulevards
- Intersections
- Landscaping
 - Planters / Seatwalls
 - Plantings and Trees



Estimated Cost Comparison

| Infrastructure Component | OPTION | | | |
|--|-----------------------------|-----------------------------------|--|--|
| | Replacement of What we Have | Preferred Concept / Upgrade | | |
| | | | | |
| Roadworks - lanes, parking, curb, asphalt | \$2,530,000 | \$2,420,000 | | |
| Sidewalks and Boulevards | \$1,380,000 | \$1,490,000 | | |
| Buried Infrastructure - Storm/San/Water | \$1,820,000 | \$1,820,000 | | |
| Streetlighting and Related Electrical | \$450,000 | \$450,000 | | |
| Planters and Seatwalls | \$120,000 | \$980,000 | | |
| Planting Media: Soil Cells/Structural Soil | \$80,000 | \$710,000 | | |
| Plantings, Trees, Irrigation, streetscape | \$90,000 | \$460,000 | | |
| Provisional and Miscellaneous | \$880,000 | \$880,000 | | |
| Sub-total (Excl. HST) | \$7,340,000 | \$9,210,000 | | |

Notes:

- 1. Subject to Final Design / Contractor Pricing/Phasing Plan, etc.
- 2. Estimate includes 30m of reconstruction work on each Street off the Square.
- 3. Planting Media Cost Options based on Soil Cell Alternative. Structural Soil may provide cost savings.
- 4. Engineering/Planning Allowance = \$700,000 to \$900,000 depending on construction period.

Other Projects

Construction Cost Comparison

Goderich Square Concept

\$9.2M

\$11,800 per metre

Preferred Concept

Strathroy – Caradoc St

\$6.5M

\$17,000 per metre

Large storm sewer, railway crossing, planters

Clinton – Albert St.

\$3.5M

\$8,500 per metre

Revitalization, road, infrastructure, Sidewalks, lighting, etc.

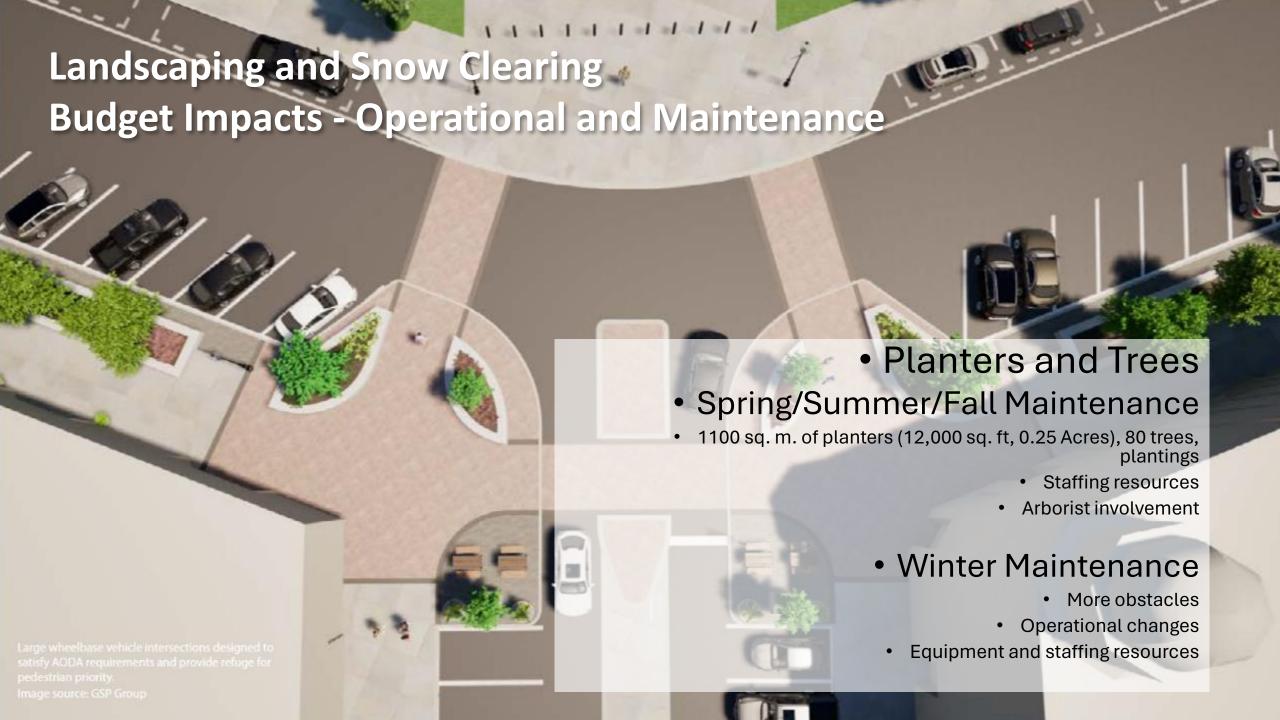
• Kincardine – Queen St.

\$7.1M

\$13,000 per metre

• Revitalization, road, infrastructure, Sidewalks, lighting, etc.





Recommended Next Steps

- Project Team Advance to Detailed Design Stage
 - BMROSS / STAFF / GSP
- Coordinate Surface with Underground Works with all Utility Stakeholders and Businesses
- Develop Construction Phasing and Mitigation Plan
 - Consider Off-site Parking
- Continued Public Consultation
- Consider Parking Management Study
- Coordinate Accessibility Items with Huron County Accessibility Advisory Committee



Council Motion

- Direct design team (BMROSS/GSP) to proceed with Detailed Design
 - Work with staff related to operational considerations
- Update Task Force through design process
- Present Design to Public when appropriate

Motion

That Goderich Town Council receive the Downtown Streetscape Plan presented by BMROSS and GSP for information.

Council further directs staff to bring back a financial strategy on how this Capital Infrastructure Project will be funded to unify the work to achieve Council's Strategic Goal.







