Welcome

Virtual Presentation

Reconstruction Project

Sydney Street South (Delta Street to King Street East)
Delta Street (Sydney Street South to Charles Street East)
Maurice Street (Sydney Street South to Ottawa Street South)
Sydney Street South Multi-Use Trail (Delta Street to Nyberg Street)

November 2020
Posted Online
Reconstruction Project

**Sydney Street South** (Delta Street to King Street East), **Delta Street** (Sydney Street South to Charles Street East) **Maurice Street** (Sydney Street South to Ottawa Street South) and **Sydney Street South** Multi-Use Trail (Delta Street to Nyberg Street)

**Purpose of the Meeting:**
To present for public comment and input, the proposed reconstruction details.

**Project Description:**
The existing storm and sanitary sewers, watermains, as well as service connections, curbs, sidewalk, and the road structure will be replaced.

**Project Funding:**
This project is funded by the ratepayers of Kitchener.

**Construction Schedule:**
Construction is anticipated to begin in April 2021.

**Contractor:**
TBD

**Project Management:**
City of Kitchener Development Services Department, Engineering Services Division.

**Personnel to Contact:**
Should you have any questions or comments about this project and wish to speak with someone personally, you may call:

Kevin Mick, P.Eng. 519-741-2200 ext.7884, Kevin.Mick@kitchener.ca
Arend Lootsma, P.Eng., 519-585-2255, Arend.Lootsma@ibigroup.com
Sidewalks

Sidewalk infrastructure is a key component of the urban environment that encourages and facilitates active transportation, supports community health, neighbourhood connectivity, community vitality and safety. Sidewalks contribute significantly to a sustainable community and a pedestrian friendly environment.

What is the Sidewalk Infill Policy

The Sidewalk Infill Policy is the City of Kitchener’s Council approved policy which provides direction to staff regarding the prioritization and installation of new sidewalk where none currently exist.

- The Sidewalk Infill Policy directs staff to construct sidewalk on both sides of a street where feasible
- Using best engineering practices staff have developed a design which balances the challenges associated with the new sidewalk
- Delta Street is being converted from a local road to an active transportation corridor similar to the Iron Horse Trail. This transition has been approved as part of a separate consultation process.
- Infill sidewalk is being proposed on the east side of Sydney Street from Charles Street to Delta Street and a Multi-Use Trail has been proposed on the east side of Sydney Street from Delta Street to Nyberg Street.

Next Steps:

- Review proposed layouts and provide any comments at this meeting
# Typical Sidewalk Challenges

<table>
<thead>
<tr>
<th>Challenge</th>
<th>Proposed Solution</th>
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| Saving Trees / Protecting Landscaping | • Introduced bends in the sidewalk in order to go around significant trees and landscaping.  
• Non-linear sidewalk may add aesthetic value                                                                 |
| Driveway Parking                  | • The design aims to keep the sidewalk as close to the roadway where feasible in order to preserve as much driveway space as possible            |
| Snow Storage                      | • Boulevard areas (grass area between the sidewalk and the road) are provided so that there is space to store snow during winter.                |
| Utility Poles / Underground cables | • Sidewalk alignment attempts to minimize the number of utility poles and underground wires that will need to be moved to save on cost.        |

The sidewalk solution presented attempts to balance these all challenges. We want to hear from you if you have other ideas, or if you think there is a better way to address the sidewalk installation near your property.
Project Highlights

Sydney Street South (Delta Street to King Street East)

- Overview of work:
  - Complete Reconstruction of Sydney Street South including new curbs, sidewalks, asphalt roadway, sanitary sewer and services, watermain and services and storm sewer including infiltration of ground water.

- Proposed changes from existing roadway:
  - Reduction of street width from existing 9.0m to 7.0m to meet City of Kitchener Complete Streets guidelines. Parking to remain on west side of street and remain restricted on the east side of the street.
  - Increase in sidewalk width from existing 1.5m to 1.8m to meet City of Kitchener Complete Streets guidelines.
  - Addition of sidewalk on the east side of the street.
  - The existing speed humps will be re-instated.

The next two slides will illustrate the identified changes with proposed layout overlaid on top of the existing aerial image.
PROPOSED CONDITIONS

MATCHLINE = STA. 0+160
FROM STA. 0+160 TO STA. 0+320
SYDNEY STREET SOUTH

H1:250  V1:50

CHARLES STREET EAST

05.11.20
A.LOOTSMA

CONTRACT NO:

NOTES:
SERVICE CONNECTIONS
- ALL WATER SERVICE CONNECTIONS ARE 25mm∅ P.E. PIPE WITH SERVICE BOXES SET ON PROPERTY LINE, UNLESS OTHERWISE NOTED
- STORM SERVICES ARE 150mm∅ PVC DR 28, AND CONNECTION TO EXISTING WILL BE AT PROPERTY LINE, UNLESS OTHERWISE DIRECTED.
- SANITARY SERVICES ARE 100mm∅ OR 150mm∅ PVC DR 28, AND CONNECTION TO EXISTING WILL BE AT PROPERTY LINE, UNLESS OTHERWISE DIRECTED.
- FOR PARALLEL INSTALLATION OF WATERMAIN AND A SANITARY/STORM SEWER (INCLUDING A CATCHBASIN LEAD), PROVIDE MINIMUM 2.5m CLEAR HORIZONTAL SEPARATION DISTANCE FROM PIPE EDGE TO PIPE EDGE. FOR CROSSING OF A WATERMAIN BELOW OR ABOVE A SANITARY/STORM SEWER (INCLUDING A CATCHBASIN LEAD) PROVIDE A 0.5m CLEAR VERTICAL SEPARATION DISTANCE BETWEEN CROWN WATERMAIN AND INVERT OF SEWER.

PAVEMENT STRUCTURE
HL3 SURFACE ASPHALT-40mm
HL4 BINDER ASPHALT-80mm
GRANULAR “A” BASE-210mm
GRANULAR “B” BASE-450mm

ALL RESIDENTIAL DWY.’S PER COK 109. ALL SIDEWALK RAMPS PER COK 116, AND 117. SIDEWALK AT INDUSTRIAL, COMMERCIAL AND HIGH DENSITY RESIDENTIAL PROPERTIES TO BE A THICKNESS OF 200mm.

OTHER UTILITIES
- TEMPORARY SUPPORT OF EXISTING UTILITY POLES MUST BE APPROVED BY KITCHENER-WILMOT HYDRO. ALL ASSOCIATED COSTS WILL BE THE RESPONSIBILITY OF CONTRACTOR.
- SERVICE CONNECTION INFORMATION MAY BE INCOMPLETE, OR ONLY GENERALLY ACCURATE. SOME SANITARY SERVICES MAY ALSO HAVE SEPARATE CELLAR DRAIN PIPES.
- PROPOSED SANITARY AND/OR WATER SERVICES TO BE TUNNELLED TO AVOID CONFLICTS WITH TREES, PLANTING BEDS, ETC.
- IDENTIFIES LOTS APPEARING TO HAVE MULTIPLE SANITARY SERVICES.

BOREHOLES
- MANHOLES, CATCHBASIN MANHOLES, CATCHBASINS
- FOR MANHOLES, CATCHBASIN MANHOLES, AND CATCHBASINS GRATE ELEVATIONS ARE THE FINISHED PAVEMENT ELEVATION AT THE CENTRE OF THE STRUCTURE.
- SIDE INLET CATCHBASIN GRATE ELEVATION ARE THE TOP OF CURB ELEVATION.
- MANHOLE TAPER CONES AND FRAMES SHALL BE ROTATED TO ENSURE THE COVER IS NOT POSITIONED IN THE WHEEL PATH.

STORM SEWER PIPE MATERIAL
UNLESS OTHERWISE NOTED AS PER THE DGSSMS C.3.1.7 THE CONTRACTOR MAY CHOOSE TO INSTALL EITHER PVC DR-35 (CSA B182.2) OR HDPE (CSA 182.8 - WATERTIGHT GASKETS) WITH INTEGRAL BELL AND PVC (CSA 182.2) FITTINGS, OR CONC.

REFER TO REPORTS No: 160-P-0016322-0-08-107-GE-R-0001-00(SYDNEY), 160-P-0016322-0-07-106-GE-R-0001-00(DELTA), 160-P-0016322-0-11-110-GE-R-0001-00(MAURICE) BY ENGLOBE DATED NOVEMBER 2018

The Corporation Of The City OF KITCHENER
Development Services
Engineering Division

KITCHENER
Development Services
Engineering Division

PROPOSED CONDITIONS
SYDNEY STREET SOUTH
FROM STA. 0+160 TO STA. 3+320

IBI GROUP
101 - 410 Albert Street
Waterloo ON  N2L 3V3 Canada
tel 519 585 2255
ibigroup.com
Project Highlights

Sydney Street South Multi-Use Trail (Nyberg Street to Delta Street)

• Overview of work:
  • Installation of a new multi-use trail on the east side of the road from Nyberg Street to Delta Street, including new curbs and minor storm works.

• Proposed changes from existing roadway:
  • Reduction of street width from existing 9.0m to 7.0m to meet City of Kitchener Complete Streets guidelines. Parking to remain on west side of street and remain restricted on the east side of the street.
  • Addition of a new multi-use trail on the east side of the roadway.
  • The existing speed humps will be re-instated.
  • Minor storm works to account for the adjustment of the roadway

The next slide will illustrate the identified changes with proposed layout overlaid on top of the existing aerial image.
PROPOSED CONDITIONS FROM STA. 3+000 TO STA. 3+165

SYDNEY STREET SOUTH

- PROPOSED SANITARY AND/OR WATER SERVICES TO BE TUNNELLED TO AVOID CONFLICTS WITH TREES, PLANTING BEDS, ETC.

- IDENTIFIES LOTS APPEARING TO HAVE MULTIPLE SANITARY SERVICES.

NOTES:

- ALL WATER SERVICE CONNECTIONS ARE 25mm∅ P.E. PIPE WITH SERVICE BOXES SET ON PROPERTY LINE, UNLESS OTHERWISE NOTED.
- STORM SERVICES ARE 150mm∅ PVC DR 28, AND CONNECTION TO EXISTING WILL BE AT PROPERTY LINE, UNLESS OTHERWISE DIRECTED.
- SANITARY SERVICES ARE 100mm∅ OR 150mm∅ PVC DR 28, AND CONNECTION TO EXISTING WILL BE AT PROPERTY LINE, UNLESS OTHERWISE DIRECTED.

- FOR PARALLEL INSTALLATION OF WATERMAIN AND A SANITARY/STORM SEWER (INCLUDING A CATCHBASIN LEAD), PROVIDE MINIMUM 2.5m CLEAR HORIZONTAL SEPARATION DISTANCE FROM PIPE EDGE TO PIPE EDGE.
- FOR CROSSING OF A WATERMAIN BELOW OR ABOVE A SANITARY/STORM SEWER (INCLUDING A CATCHBASIN LEAD), PROVIDE A 0.5m CLEAR VERTICAL SEPARATION DISTANCE BETWEEN CROWN WATERMAIN AND INVERT OF SEWER.

PAVEMENT STRUCTURE

- HL3 SURFACE ASPHALT-40mm
- HL4 BINDER ASPHALT-80mm
- GRANULAR "A" BASE-210mm
- GRANULAR "B" BASE-450mm

ALL RESIDENTIAL DWY.'S PER COK 109. ALL SIDEWALK RAMPS PER COK 116, AND SIDEWALK AT INDUSTRIAL, COMMERCIAL AND HIGH DENSITY RESIDENTIAL PROPERTIES TO BE A THICKNESS OF 200mm.

OTHER UTILITIES

- TEMPORARY SUPPORT OF EXISTING UTILITY POLES MUST BE APPROVED BY KITCHENER-WILMOT HYDRO. ALL ASSOCIATED COSTS WILL BE THE RESPONSIBILITY OF CONTRACTOR.

- SERVICE CONNECTION INFORMATION MAY BE INCOMPLETE, OR ONLY GENERALLY ACCURATE. SOME SANITARY SERVICES MAY ALSO HAVE SEPARATE CELLAR DRAIN PIPES.

- BOREHOLES, MANHOLES, CATCHBASIN MANHOLES, CATCHBASINS

GRATE ELEVATIONS ARE THE FINISHED PAVEMENT ELEVATION AT THE CENTRE OF THE STRUCTURE.

SIDE INLET CATCHBASIN GRATE ELEVATION ARE THE TOP OF CURB ELEVATION.

MANHOLE TAPER CONES AND FRAMES SHALL BE ROTATED TO ENSURE THE COVER IS NOT POSITIONED IN THE WHEEL PATH.

STORM SEWER PIPE MATERIAL

- UNLESS OTHERWISE NOTED AS PER THE DGSSMS C.3.1.7 THE CONTRACTOR MAY CHOOSE TO INSTALL EITHER PVC DR-35 (CSA B182.2) OR HDPE (CSA 182.8 - WATERTIGHT GASKETS) WITH INTEGRAL BELL AND PVC (CSA 182.2) FITTINGS, OR CONC.

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Project Highlights

Delta Street (Sydney Street South to Charles Street East)

- Overview of work:
  - Complete Reconstruction of Delta Street including sanitary sewer and services, watermain and services and storm sewer and new multi-use trail.
- Proposed changes from existing roadway:
  - The existing roadway will be converted from a through traffic roadway to a multi-use trail for active transportation.

The next three slides will illustrate the identified changes with proposed layout overlaid on top of the existing aerial image.
Matchline = STA. 1+150

Delta Street

Proposed Conditions

1. Matchline = STA. 1+150 to STA. 1+280
2. Delta Street

H1:250  V1:50

North

Before starting work

Dwg. No.

Approved by:

Development Services
Engineering Division

Kitchener

Consultant Dwg. No.

121507

Dwg. No.

Drawn by:

A. Lootsma

Scale:

Date: (MM.DD.YY)

Checked by:

Contract No:

Notes:

1. Service connections

   - All water service connections are 25mm∅ P.E. pipe with service boxes set on property line, unless otherwise noted.
   - Storm services are 150mm∅ PVC DR 28, and connection to existing will be at property line, unless otherwise directed.
   - Sanitary services are 100mm∅ or 150mm∅ PVC DR 28, and connection to existing will be at property line, unless otherwise directed.
   - For parallel installation of watermain and a sanitary/storm sewer (including a catchbasin lead), provide minimum 2.5m clear horizontal separation distance from pipe edge to pipe edge.
   - For crossing of a watermain below or above a sanitary/storm sewer (including a catchbasin lead), provide a 0.5m clear vertical separation distance between crown watermain and invert of sewer.

2. Pavement structure

   - HL3 surface asphalt - 40mm
   - HL4 binder asphalt - 80mm
   - Granular "A" base - 210mm
   - Granular "B" base - 450mm

3. All residential dwy.'s per COK 109. All sidewalk ramps per COK 116, and 117. Sidewalk at industrial, commercial and high density residential properties to be a thickness of 200mm.

4. Other utilities

   - Temporary support of existing utility poles must be approved by Kitchener-Wilmot Hydro. All associated costs will be the responsibility of the contractor.
   - Service connection information may be incomplete, or only generally accurate. Some sanitary services may also have separate cellar drain pipes.
   - Proposed sanitary and/or water services to be tunnelled to avoid conflicts with trees, planting beds, etc.
   - Identifies lots appearing to have multiple sanitary services.

5. Boreholes

   - Manholes, catchbasin manholes, catchbasins

   - For manholes, catchbasin manholes, and catchbasins, grate elevations are the finished pavement elevation at the center of the structure. Side inlet catchbasin grate elevation are the top of curb elevation. Manhole taper cones and frames shall be rotated to ensure the cover is not positioned in the wheel path.

6. Storm sewer pipe material

   - Unless otherwise noted as per the DGSSMS C.3.1.7, the contractor may choose to install either PVC DR-35 (CSA B182.2) or HDPE (CSA 182.8 - watertight gaskets) with integral bell and PVC (CSA 182.2) fittings, or conc.

7. Refer to reports:

   - No: 160-P-0016322-0-08-107-GE-R-0001-00 (Sydney),
   - No: 160-P-0016322-0-07-106-GE-R-0001-00 (Delta),
   - No: 160-P-0016322-0-11-110-GE-R-0001-00 (Maurice) by Englobe dated November 2018.
PROPOSED CONDITIONS

MATCHLINE = STA. 1+280

FROM STA. 1+280 TO STA. 1+360

DELTA STREET

H1:250  V1:50

12 NORTH

BEFORE STARTING WORK

DWG. No.

APPROVED BY:

CITY OF
The Corporation Of The
KITCHENER
Development Services
Engineering Division
K
R
I
T
H
E

BENCHMARK
SURVEY
DESIGNED BY:

CONSULTANT DWG. No.

121507

121507

121507

DRAWN BY:

SCALE:

DATE:  (MM.DD.YY)

CHECKED BY:

05.11.20

A.LOOTSMA

CONTRACT NO:

TXX-XXX

NOTES:

SERVICE CONNECTIONS

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PAVEMENT STRUCTURE

HL3 SURFACE ASPHALT-40mm
HL4 BINDER ASPHALT-80mm
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GRANULAR "B" BASE-450mm

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OTHER UTILITIES

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-IDENTIFIES LOTS APPEARING TO HAVE MULTIPLE SANITARY SERVICES.

BOREHOLES

MANHOLE, CATCHBASIN MANHOLE, CATCHBASIN

FOR MANHOLE, CATCHBASIN MANHOLE, AND CATCHBASIN GRATE ELEVATIONS ARE THE FINISHED PAVEMENT ELEVATION AT THE CENTRE OF THE STRUCTURE.

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Project Highlights

Maurice Street (Sydney Street South to Ottawa Street South)

- Overview of work:
  - Complete Reconstruction of Maurice Street including new curbs, sidewalks, asphalt roadway, sanitary sewer and services, watermain and services and storm sewer.

- Proposed changes from existing roadway:
  - Reduction of street width from existing 9.0m to 7.0m to meet City of Kitchener Complete Streets guidelines. Parking to remain on south side of street and remain restricted on the north side of the street.
  - Increase in sidewalk width from existing 1.5m to 1.8m on the north side of the street to meet City of Kitchener Complete Streets guidelines. The sidewalk on the south side of the street will remain 1.5m wide as a result of conflicts.

The next slide will illustrate the identified changes with proposed layout overlaid on top of the existing aerial image.
PROPOSED CONDITIONS FROM STA. 2+000 TO STA. 2+166

MAURICE STREET

- **NOTES:**
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  - **PAVEMENT STRUCTURE**
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    - Granular "A" base - 210mm
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  - All residential dwy.'s per COK 109. All sidewalk ramps per COK 116, and 117. Sidewalk at industrial, commercial and high density residential properties to be a thickness of 200mm.
  - **OTHER UTILITIES**
    - Temporary support of existing utility poles must be approved by Kitchener-Wilmot Hydro. All associated costs will be the responsibility of contractor.
    - Service connection information may be incomplete, or only generally accurate. Some sanitary services may also have separate cellar drain pipes.
    - Proposed sanitary and/or water services to be tunnelled to avoid conflicts with trees, planting beds, etc.
    - Identifies lots appearing to have multiple sanitary services.
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Questions?

Personnel to Contact: Should you have any questions or comments about this project and wish to speak with someone personally, you may call:

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