Welcome

Virtual Presentation

Reconstruction Project

Pattandon Avenue (Ottawa Street South to Borden Parkway)

February 2021

Posted Online
Project Information
Reconstruction Project
Pattandon Avenue (Ottawa Street South to Borden Parkway)

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 early June 2021 with paving complete by November 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:
Steve Allen, P.Eng. 519-741-2200 ext.7584, Steve.Allen@kitchener.ca;
Arend Lootsma, P.Eng., 519-585-2255, Arend.Lootsma@ibigroup.com
Project Highlights

Pattandon Avenue (Ottawa Street South to Borden Parkway)

• Overview of work:
  • Complete Reconstruction of Pattandon Avenue 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 8.7m to 7.0m to meet City of Kitchener Complete Streets guidelines. Parking to remain on both sides of the street.
  • Increase in sidewalk width from existing 1.5m to 1.8m, and addition of curb and gutter to meet City of Kitchener Complete Streets guidelines.
  • Addition of a channelized island at Ottawa Street South restricting left turns from Ottawa Street onto Pattandon Avenue.

The next three slides will illustrate the identified changes with proposed layout overlaid on top of the existing aerial image.
THE POSITION OF THE POLE LINES, CONDUITS, WATERMAINS, SEWERS, AND OTHER UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED.

THE CONTRACTOR SHALL CONFIRM THE POSITION AND EXACT LOCATION OF ALL SUCH UTILITIES, AND SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO THEM MADE DURING THE COURSE OF THE CONTRACT WORK.

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 REPORT No: 160-P-0016322-0-12-111-GE-R-0001-00 BY ENGLOBE DATED NOVEMBER 2018
**NOTES:**

**SERVICE CONNECTIONS**

- All water service connections are 25mm ∅ P.E. pipe with service boxes set on property line, unless otherwise noted.

**STORM SERVICES**

- Storm services are 150mm ∅ PVC DR 28, and connection to existing will be at property line, unless otherwise directed.

**SANITARY SERVICES**

- Sanitary services are 100mm ∅ or 150mm ∅ PVC DR 28, and connection to existing will be at property line, unless otherwise directed.

**PARALLEL INSTALLATION**

- 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.

**CROSSING**

- 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 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.**

**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 REPORT No: 160-P-0016322-0-12-111-GE-R-0001-00 BY ENGLOBE DATED NOVEMBER 2018**
New Island to Prevent Left Turns on To Pattandon Avenue From Ottawa Street
Questions?

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