EXISTING HYDRO ONE OVER-HEAD LINES TO BE BURIED AND EXISTING SUBSTATION TO BE RELOCATED TO SOUTH SIDE OF FAIRWAY ROAD SOUTH

RETAINING WALL REQUIRED BETWEEN END OF STRUCTURE AND LIMIT OF ELEVATED LRT PROFILE

GRADE SEPARATED CROSSING

EXISTING HYDRO ONE OVERHEAD LINES TO BE BURIED AND EXISTING SUBSTATION TO BE RELOCATED TO SOUTH SIDE OF FAIRWAY ROAD SOUTH

FAIRVIEW PARK MALL

FAIRWAY ROAD SOUTH

WABANAKI DRIVE

CITY OF KITCHENER

10+000
10+100
10+200
10+300
10+400
10+500

STAGE 2 ION LRT TRANSIT PROJECT ASSESSMENT FUNCTIONAL DESIGN SHEET 01

SCALE:

DATE: November 2020

DRAWN BY: SR / PM

FILE No.: 161-07859-01
GRADE SEPARATED CROSSING TO ACCOMMODATE FUTURE HIGHWAY 8 WIDENING AND RAMP REALIGNMENT

MINIMUM 14m SETBACK FROM MTO ROW

PROPOSED TOP OF RAIL EXISTING GROUND

SCALE:

DATE: November 2020

DRAWN BY: SR / PM

FILE No. P:\IOM\2015\151-07859-00 (ION STAGE 2 TPAP)\6.1 DRAWINGS (CADD)\SHEETS\EPR - PLATES\EPR PLATES.DWG

REGION OF WATERLOO ORTHOIMAGERY (2020)
HIGHWAY 8 OFF-RAMP

ELEVATED TRACK SECTION ENDS HERE

KING STREET IMPROVEMENTS PROJECT SCHEDULED FOR CONSTRUCTION 2021 (WIDENING/RECONSTRUCTION) (REGION OF WATERLOO ROADWAY PROJECT)

RETAINING WALL REQUIRED BETWEEN END OF STRUCTURE AND LIMIT OF ELEVATED LRT PROFILE

KING STREET IMPROVEMENTS PROJECT

SCHEDULED FOR CONSTRUCTION 2021
(WIDENING/RECONSTRUCTION) (REGION OF WATERLOO ROADWAY PROJECT)
KING STREET IMPROVEMENTS PROJECT SCHEDULED FOR CONSTRUCTION 2021
(WIDENING/RECONSTRUCTION) (REGION OF WATERLOO ROADWAY PROJECT)

SPORTSWORLD DR
PIONEER TOWER ROAD
BAXTER PLACE
KING ST E
CITY OF KITCHENER

PROPOSED TOP OF RAIL
EXISTING GROUND

STAGE 2 ION LRT
TRANSIT PROJECT ASSESSMENT
FUNCTIONAL DESIGN

DATE: November 2020
DRAWN BY: SR / PM
FILE No.: 161-07859-01

SCALE:

HOR: 0m 10m 20m 40m
VER: 0m 2m 4m 8m

STAGE 2 ION LRT TRANSIT PROJECT ASSESSMENT
FUNCTIONAL DESIGN

SHEET 09

MATCHLINE

SHEET 08

MATCHLINE

SHEET 10
FUTURE HIGHWAY 401 AND HIGHWAY 8 INTERCHANGE CONFIGURATION (MTO PROJECT)

CITY OF KITCHENER

FUTURE RAMPS
GRADE SEPARATED

STAGE 2 ION LRT
TRANSIT PROJECT ASSESSMENT
FUNCTIONAL DESIGN

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REGION OF WATERLOO ORTHOIMAGERY (2020)

MATCHLINE
ELEVATED TRACK SECTION STARTS HERE
RETAINING WALL REQUIRED BETWEEN END OF STRUCTURE AND LIMIT OF ELEVATED LRT PROFILE

DRIVEWAY ACCESS TO BE REVIEWED FURTHER IN NEXT DESIGN PHASE, IN CONSULTATION WITH MTO

MULTI-USE TRAIL ON SHANTZ HILL ROAD FROM HIGHWAY 401 TO FOUNTAIN STREET TO BE ASSESSED IN NEXT DESIGN PHASE

3.50m
2.10m SIDEWALK

SHANTZ HILL ROAD
PRESTON PARKWAY
FOUNTAIN ST
CITY OF CAMBRIDGE

GRADE SEPARATED CROSSING

PROPOSED TOP OF RAIL
EXISTING GROUND
PRESTON PARKWAY
FOUNTAIN STREET

ROW 2010
STAGE 2 ION LRT TRANSIT PROJECT ASSESSMENT FUNCTIONAL DESIGN SHEET 13

SCALE:
DATE: November 2020
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FILE No.: 161-07859-01

REGION OF WATERLOO ORTHOIMAGERY (2020)
ONE WAY
MULTI-USE TRAIL ON EAGLE STREET FROM KING STREET TO CP RAIL CROSSING TO BE ASSESSED IN NEXT DESIGN PHASE

1.80m SIDEWALK
3.25m
3.65m
3.65m
3.25m

6.0m LRT PLATFORM

1.80m SIDEWALK

3.65m
3.25m
3.65m
3.35m
3.25m

CHOPIN DRIVE
QUEENSTON STREET
CHOPIN DRIVE
REALIGNMENT
RELOCATED ACCESS FOR 100/200 EAGLE STREET NORTH
EMERGENCY SERVICES ACCESS TO 100/200 EAGLE STREET NORTH
AT-GRADE CROSSING WITH GATES, AND CROSSING WARNING SYSTEM

PROPOSED TOP OF RAIL
EXISTING GROUND
CHOPIN DRIVE

PROPOSED BUS STOP
PROPOSED TRAFFIC LANE
PROPOSED SIDEWALK
PROPOSED BIKE PATH
PROPOSED FUTURE/PLANNED ROAD
 PRESTON

SCALE:
DATE:
DRAWN BY:
FILE No.
161-07859-01
REGION OF WATERLOO ORTHOIMAGERY (2020)
RETAINING WALL REQUIRED BETWEEN END OF STRUCTURE AND LIMIT OF ELEVATED LRT PROFILE SPEED RIVER

GRADE SEPARATED CROSSING

ELEVATED TRACK SECTION ENDS HERE

ELEVATED TRACK SECTION STARTS HERE

MULTI-USE TRAIL ON EAGLE STREET FROM KING STREET TO CP RAIL CROSSING TO BE ASSESSED IN NEXT PHASE OF DESIGN

WARRANT FOR PEDESTRIAN CROSSING TO BE CONFIRMED IN NEXT DESIGN PHASE

2.10m SIDEWALK

5.00m MIN. CLEARANCE

3.65m MIN. CLEARANCE

WILLIAM STREET

CP RAIL

EAGLE ST N

MARGARET ST

AGNES STREET

HEDLEY STREET

WILLIAM ST

CITY OF CAMBRIDGE

STAGE 2 ION LRT TRANSIT PROJECT ASSESSMENT FUNCTIONAL DESIGN SHEET 16
AT-GRADE CROSSING WITH GATES, AND CROSSING WARNING SYSTEM

TURNOUT CROSSING TO BE ADDRESS DURING NEXT STAGE OF DESIGN

PROPOSED TOP OF RAIL
EXISTING GROUND

INDUSTRIAL ROAD
ROW 2010
STAGE 2 ION LRT
TRANSIT PROJECT ASSESSMENT
FUNCTIONAL DESIGN

SCALE:
DATE: November 2020
DRAWN BY: SR / PM
FILE No. 161-07859-01
TRANSITION OF CYCLING FACILITIES TO BE ASSESSED DURING NEXT STAGE OF DESIGN

AT-GRADE CROSSING WITH GATES, AND CROSSING WARNING SYSTEM

PROPOSED TOP OF RAIL
EXISTING GROUND

MATCHLINE
SHEET 22

MATCHLINE
SHEET 23

MATCHLINE
SHEET 24
SIGNALS, AND GATES FOR LRT TO BE ADDED FOR PEDESTRIAN CROSSING

CITY OF CAMBRIDGE
CITY OF CAMBRIDGE

MATCHLINE

SHEET 31

PROPOSED TOP OF RAIL
EXISTING GROUND

MATCHLINE

SHEET 30

ROW 2010
STAGE 2 ION LRT
TRANSIT PROJECT ASSESSMENT
FUNCTIONAL DESIGN

FILE No.
161-07859-01

SCALE:

DATE:
November 2020

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161-07859-01 (ION STAGE 2 TPAP)
6.1 DRAWINGS (CADD)
SHEETS
EPR - PLATES
EPR PLATES.DWG

REGION OF WATERLOO ORTHOIMAGERY (2020)
LRT Crosses Under Grantham Bridge

At-Grade Crossing with Gates and Crossing Warning System

Dundas-Beverly Roundabout Design (Region of Waterloo Roadway Project)

Proposed Top of Rail: Existing Ground Row 2010

CP Rail

Dundas Street N

City of Cambridge

CITY OF CAMBRIDGE

STAGE 2 ION LRT TRANSIT PROJECT ASSESSMENT
FUNCTIONAL DESIGN SHEET 32

SCALE:

DATE: November 2020

DRAWN BY: 161-07859-01
ALTERNATIVE CONNECTION TO
MULTI-USE TRAIL TO DUNDAS STREET TO
BE ASSESSED IN NEXT DESIGN PHASE

AT-GRADE CROSSING WITH GATES, AND
CROSSING WARNING SYSTEM

KERR STREET
BEVERLY STREET
CITY OF CAMBRIDGE

MATCHLINE
SHEET 33

STAGE 2 ION LRT
TRANSIT PROJECT ASSESSMENT
FUNCTIONAL DESIGN
SHEET 33
WARRANT FOR PEDESTRIAN SIGNAL TO BE CONFIRMED DURING DETAILED DESIGN

ONE WAY

BUSES ONLY

3.65m

5.50m

5.50m

2.10m SIDEWALK

2.10m SIDEWALK

5.50m

6.0m LRT PLATFORM

7.00m

Shelter

Shelter

Shelter

3.50m SIDEWALK + BUFFER

7.00m

Shelter

3.00m MULTI-USE PATH

2.10m SIDEWALK

5.50m

Shelter

Shelter

3.50m SIDEWALK + BUFFER

27+300

27+400

27+500

27+540

Downtown Cambridge

WATER STREET S

AINSLIE STREET

WARNICK STREET

GRAND RIVER

WELLINGTON STREET

BRUCE STREET

WHITEHALL LANE

BRUCE STREET

AINSLIE STREET

PROPOSED TOP OF RAIL

EXISTING GROUND

ROW 2010

STAGE 2 ION LRT

TRANSIT PROJECT ASSESSMENT

FUNCTIONAL DESIGN

SHEET 35

SCALE:

DATE:
November 2020

DRAWN BY:
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FILE No.
161-07859-01

REGION OF WATERLOO ORTHOIMAGERY (2020)