

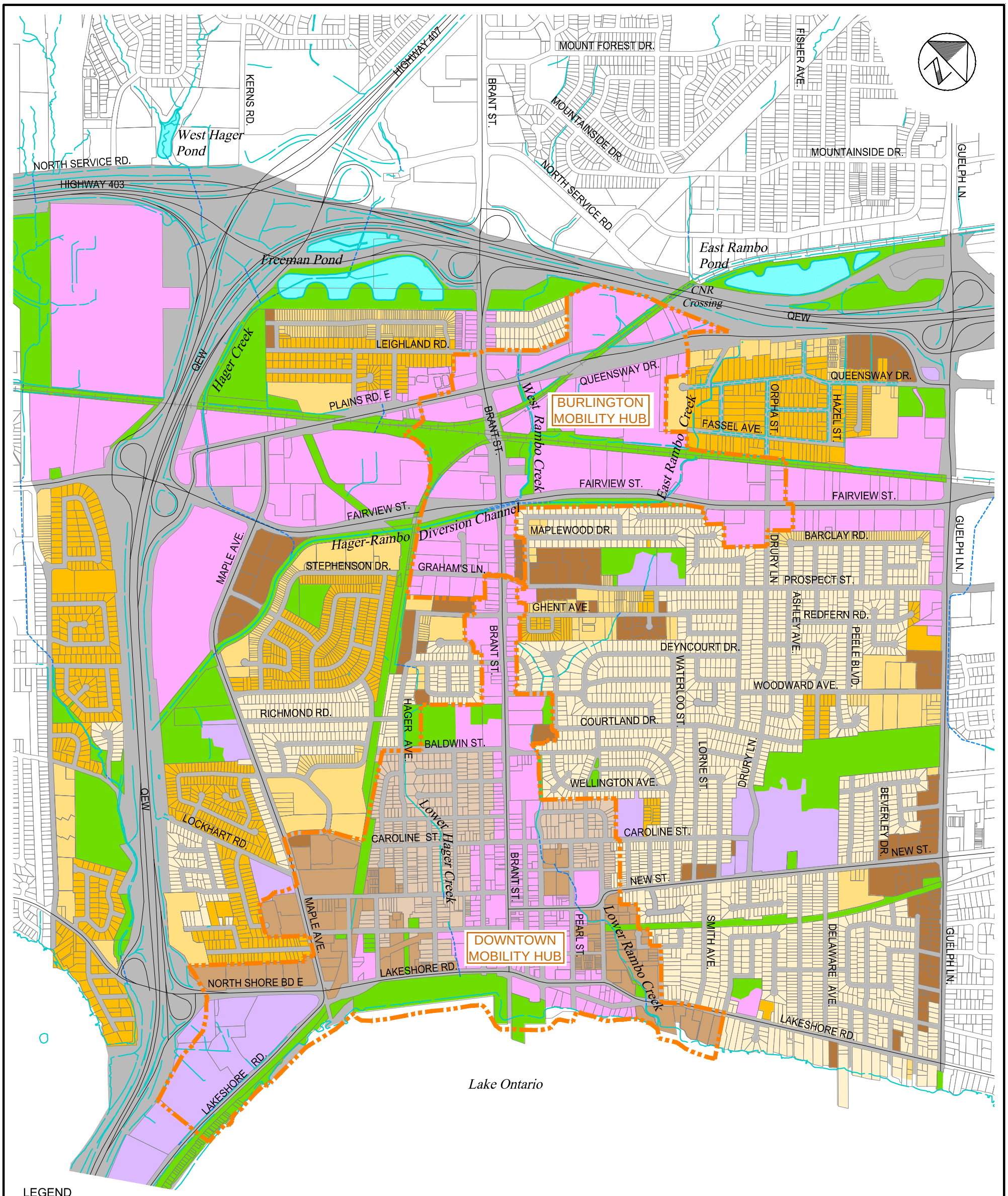
LEGEND

- MOBILITY HUB STUDY AREA
- WATERCOURSE
- PARCEL FABRIC
- CULVERT LOCATION

SCALE VALID ONLY FOR 24"x36" VERSION

MOBILITY HUB PLANNING STUDY CITY OF BURLINGTON	STUDY AREA PLAN	wood.	Scale 1:7500 (0, 75, 150, 300) Consultant File No. TP178008S Drawing No. 1

Path: P:\2017\Projects\TPB178008S – Mobility Hub Planning Consulting Services\06_DES-ENG\01_CAD\02_DWGS\05_WR\01_PROJ\2018-11(Dtwn-Burl)\Dwg1 StudyAreas.dwg
Last Saved: 2018-11-12 Last Saved By: richard.bartolo Plotted: 2018-12-06 Plotted By: richard.bartolo



LEGEND

- MOBILITY HUB STUDY AREA
- WATERCOURSE
- PRIMARY ROADWAY
- PARCEL FABRIC
- CULVERT LOCATION

LAND USE

- INSTITUTIONAL
- APARTMENT BUILDINGS
- DOWNTOWN HIGH DENSITY
- DOWNTOWN LOW DENSITY RESIDENTIAL
- HIGH DENSITY DETACHED
- LOW DENSITY DETACHED
- SEMI-DETACHED AND TOWNHOMES
- HIGH IMPERVIOUS
- ROAD
- PARK

SCALE VALID ONLY FOR 24"x36" VERSION

MOBILITY HUB PLANNING STUDY

CITY OF BURLINGTON

EXISTING LAND USE PLAN FOR HYDROLOGIC MODELLING

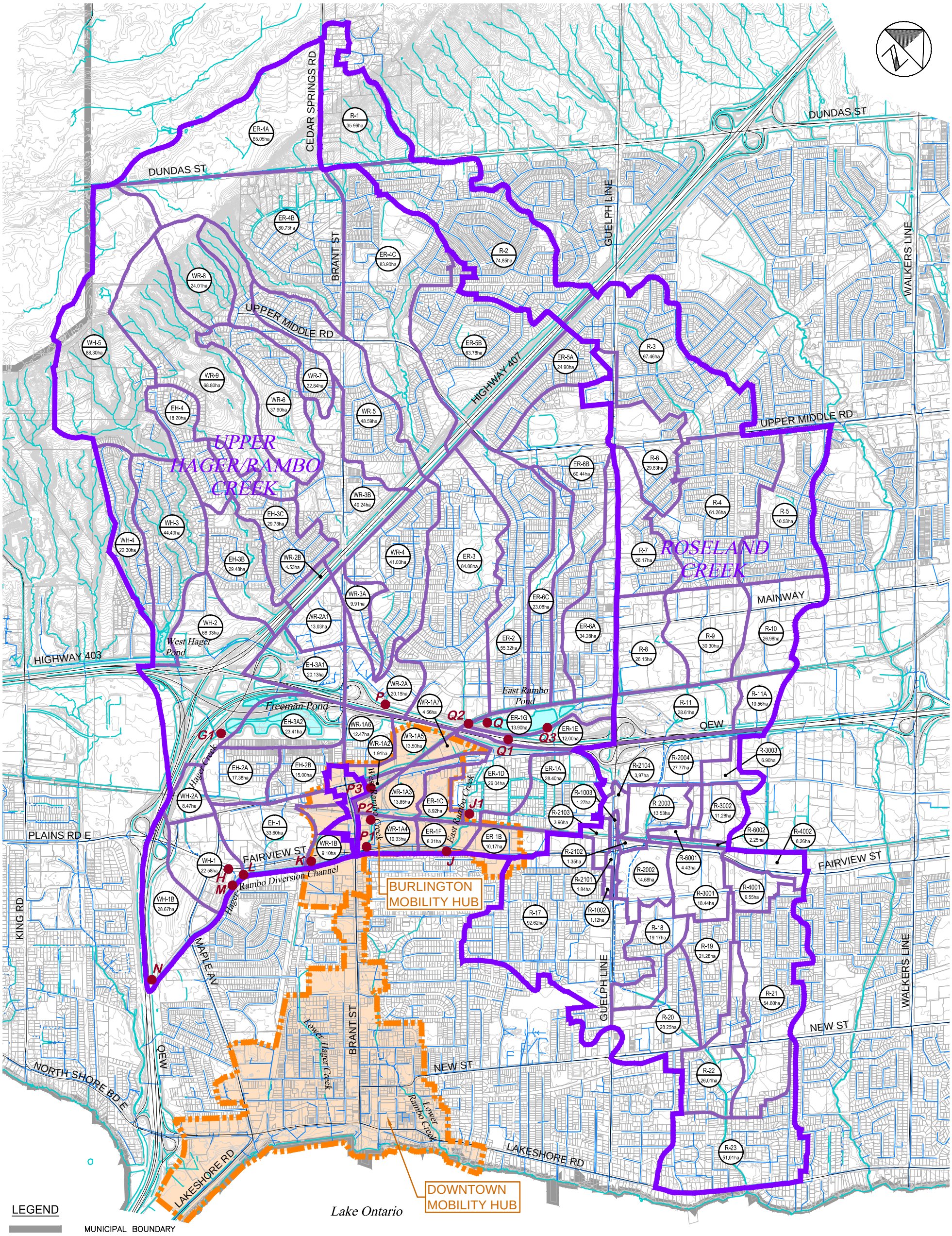
wood.

Scale 1:7500
0 75 150 300

Consultant File No. TP178008S

Drawing No. 2

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Last Saved: 2018-12-05 Last Saved By: richard.bartolo Plotted: 2018-12-06 Plotted By: richard.bartolo



LEGEND

- MUNICIPAL BOUNDARY
- MOBILITY HUB STUDY AREA
- WATERCOURSE
- CONTOUR (1m)
- PRIMARY ROADWAY
- PARCEL FABRIC
- CULVERT LOCATION
- STORM SEWER SYSTEM
- WATERSHED BOUNDARY
- SUBCATCHMENT BOUNDARY
- 100 / 25.0ha — SUBCATCHMENT ID# / SUBCATCHMENT AREA
- FLOW NODE

SCALE VALID ONLY FOR 24"x36" VERSION

MOBILITY HUB PLANNING STUDY

CITY OF BURLINGTON

SUBCATCHMENT BOUNDARY PLAN (EXTERNAL HAGER-RAMBO SYSTEM)

wood.

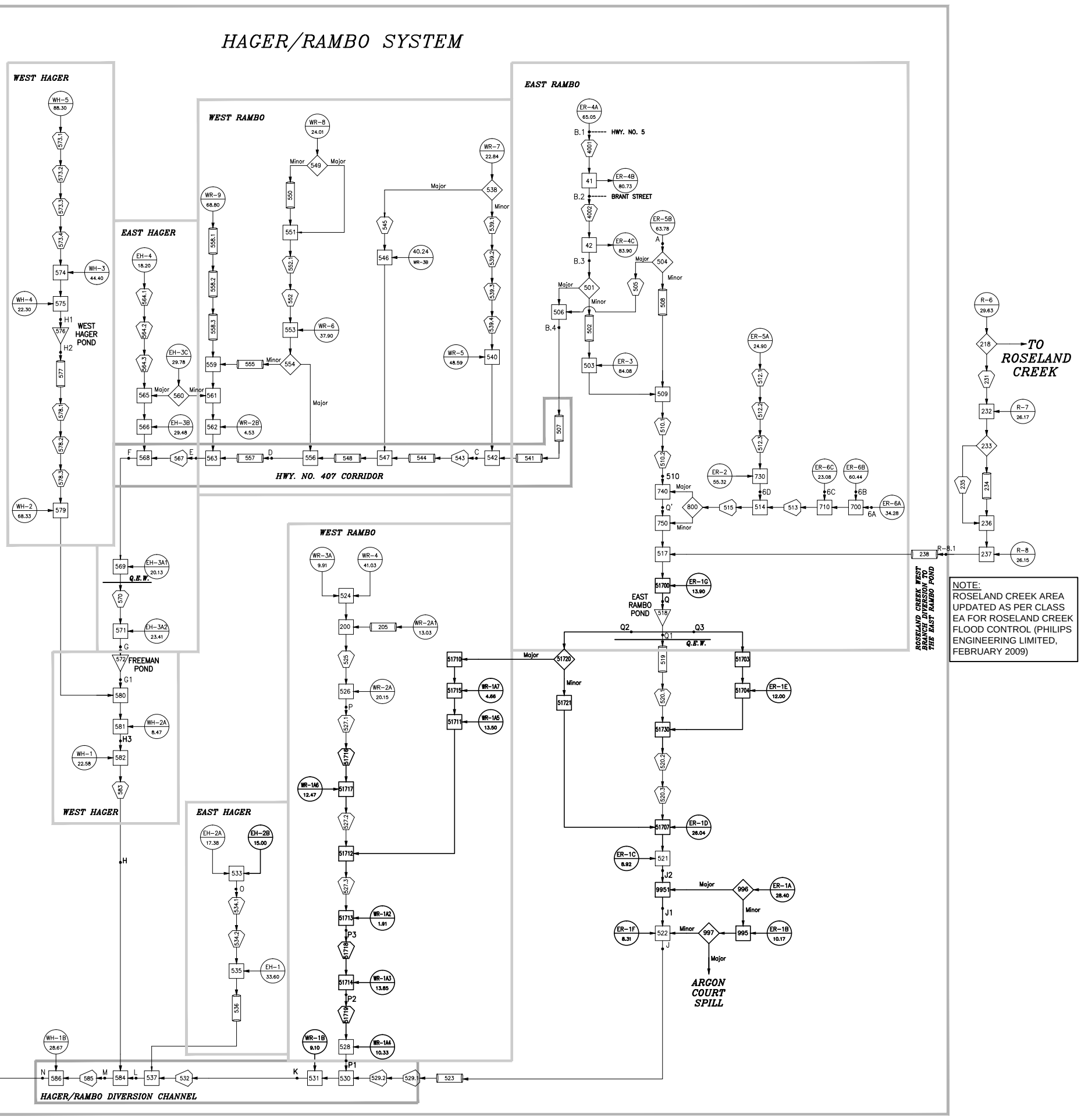
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Consultant File No. TP178008S

Drawing No. 3

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Last Saved: 2018-12-05 Last Saved By: richard.bartolo Plotted: 2018-12-10 Plotted By: richard.bartolo

HAGER/RAMBO SYSTEM



NOTE:
ROSELAND CREEK AREA UPDATED AS PER CLASS EA FOR ROSELAND CREEK FLOOD CONTROL (PHILIPS ENGINEERING LIMITED, FEBRUARY 2009)

NOTE:
- ORIGINAL SCHEMATIC FROM 'TECHNICAL SUMMARY, UPDATED HYDROLOGY, INDIAN CREEK, HAGER-RAMBO SYSTEM, ROSELAND CREEK (PHILIPS PLANNING AND ENGINEERING LIMITED, APRIL 1997)
- MODIFICATIONS TO MODEL SCHEMATIC MADE IN 2017, AS COMPARED TO ORIGINAL 1997 MODELLING, ARE SHOWN IN BOLD

LEGEND

WR-8 / 6.2	SUB-AREA NUMBER / AREA (ha)
549	DUHYD (Hydrograph No.)
553	CHANNEL ROUTE (Reach Number)
556	PIPE ROUTE (Reach Number)
100.1	ADDHYD (Hydrograph No.)
518	RESERVOIR ROUTE (Hydrograph No.)
1091	POTENTIAL FUTURE STORAGE (Hydrograph No.)
• 3.1	NODE NO. (ROSELAND CREEK)
• B	NODE NO. (H-R SYSTEM)
• 303B.1	NODE NO. (INDIAN CREEK)

MOBILITY HUB PLANNING STUDY
CITY OF BURLINGTON

HYDROLOGIC MODEL SCHEMATIC

wood.

Scale: NOT TO SCALE
Consultant File No.: TP178008S
Drawing No.: 4

Last Saved: 2018-11-13 Last Saved By: richard.bartolo Plotted: 2018-12-06 Plotted By: richard.bartolo Path: P:\2017\Projects\TPB178008S - Mobility Hub Planning Consulting Services\06_DES-ENG\01_CAD\02_DWGS\05_WR\01_PROJ\2018-11(Dtwn-Bur)\Dwg4 Schematic.dwg

'SCENARIO 1' CONSIDERS SPLIT FLOW FROM EAST RAMBO POND DIRECTED TO BOTH EAST AND WEST RAMBO CREEKS, AS PER EXISTING CONDITIONS. FLOWS ON WEST RAMBO CREEK, FROM LEIGHLAND ROAD TO PLAINS ROAD EAST CANNOT BE CONTAINED BY THE CHANNEL AND SPILL WESTERLY ALONG PLAINS ROAD EAST AND ARE NOT PRESENTED. FLOODLINES FOR REMAINDER OF WEST RAMBO CREEK REPRESENT THE REDUCED FLOW AT PLAINS ROAD EAST, AS PRODUCED FROM PCSWMM 2D MODEL.

FROM EAST RAMBO POND AT CNR CROSSING

Freeman Pond

East Rambo Pond

CNR Crossing

TREELAND ST.

LEIGHLAND RD.

BRANT ST.

HELENA ST.

PLAINS RD. E

QEW

QUEENSWAY DR.

BRENDA CR.

GLENWOOD SCHOOL DR.

ORPHA ST.

HAZEL ST.

BRINELL AVE.

FASSEL AVE.

BURLINGTON MOBILITY HUB

LATERAL STRUCTURE 3

West Rambo Creek

East Rambo Creek

Hager-Rambo Diversion Channel

FAIRVIEW ST.

WEST RAMBO CREEK AT FAIRVIEW STREET

HAGER RAMBO DIVERSION CHANNEL AT FAIRVIEW STREET

EDINBURGH DR.

MAPLEWOOD DR.

ARGON CT.

LATERAL STRUCTURE 1

LATERAL STRUCTURE 2

JOYCE ST.

DRURY LN

ASHLEY AVE.

BARCLAY RD.

PROCTOR RD.

PROSPECT ST.

SPILL

355.12
333.13
318.50
304.63
277.29
272.49

232.44 (99.53 / 99.51)
222.48 (100.00 / 99.57)
202.11 (99.99 / 99.56)
40.68 (99.28 / 98.92)
38.48 (99.10 / 98.77)
1.18 (97.25 / 97.19)
200.00 (96.80 / 96.71)
106.00 (96.15 / 95.21)
90.00 (96.19 / 94.90)
50.00 (96.19 / 94.76)
30.00 (96.17 / 94.49)
10.00 (96.15 / 94.37)
0.00 (95.97 / 94.36)
1717.07 (95.96 / 94.41)
1703.42 (95.96 / 94.42)
1443.63 (95.74 / 94.26)
1454.46 (95.92 / 94.37)
1501.66 (95.92 / 94.37)
1667.58 (95.91 / 94.37)
1721.67 (95.95 / 94.40)
1650.54 (95.92 / 94.38)
89.16 (99.28 / 98.90)
59.83 (99.28 / 98.91)
0.01 (97.23 / 97.15)
220.00 (96.85 / 96.77)
160.00 (96.39 / 95.99)
130.00 (96.43 / 95.95)
122.00 (96.37 / 95.92)
70.00 (96.18 / 94.78)
1991.14 (96.43 / 94.60)
2001.66 (96.43 / 94.71)
2029.00 (96.43 / 94.73)
2068.32 (96.43 / 94.76)
2101.66 (96.44 / 94.80)
2135.04 (96.44 / 94.85)
2175.40 (96.44 / 94.89)
2201.66 (96.44 / 94.91)
2240.22 (96.44 / 94.94)
2301.66 (96.44 / 95.02)
2393.06 (96.46 / 95.36)
2401.66 (96.43 / 95.33)
2468.12 (96.60 / 96.00)
2491.30 (96.91 / 96.67)
2557.34 (98.06 / 97.70)
2601.89 (98.36 / 98.21)
2656.19 (98.40 / 98.06)
2699.39 (100.44 / 99.27)
2711.59 (100.44 / 99.79)
2747.22 (100.43 / 99.78)
2802.17 (100.30 / 99.58)
2875.83 (100.26 / 99.80)
2938.69 (101.28 / 100.93)
2977.40 (101.67 / 101.42)
3005.78 (101.62 / 101.58)
3020.18 (101.75 / 101.57)
3059.84 (102.00 / 101.43)
3104.64 (102.42 / 101.76)
3188.99 (102.47 / 102.19)
174.70 (100.01 / 99.58)
145.52 (99.20 / 98.98)
169.61 (99.81 / 99.38)
141.47 (99.26 / 99.02)
135.41 (99.22 / 98.88)
119.45 (99.25 / 98.90)

LEGEND

- MOBILITY HUB STUDY AREA
- WATERCOURSE
- CONTOUR (1m)
- PARCEL FABRIC
- CULVERT LOCATION
- STORM SEWER SYSTEM

100.25 / 101.00 / 100.00 — CROSS SECTION NUMBER; REGIONAL STORM FLOOD ELEVATION (m); CROSS SECTION LOCATION; 100 YEAR STORM FLOOD ELEVATION (m)

- LATERAL STRUCTURE (HEC-RAS)
- REGIONAL STORM FLOODPLAIN
- 100 YEAR STORM FLOODPLAIN
- SPILL LOCATION

SCALE VALID ONLY FOR 24"x36" VERSION

MOBILITY HUB PLANNING STUDY

CITY OF BURLINGTON

FLOODPLAIN MAPPING 'SCENARIO 1' (HAGER-RAMBO DIVERSION CHANNEL & UPPER RAMBO CREEK)

wood.

Scale 1:2500 (0 25 50 100)

Consultant File No. TP178008S

Drawing No. 5A

Path: P:\2017\Projects\TP178008S – Mobility Hub Planning Consulting Services\06_DES-ENG\01_CAD\02_DWGS\05_WR\01_PROJ\2019-12(Dtwn-BurlREV)\Dwg5ab FloodPlain(UpperRambo).dwg

Plotted By: richard.bartolo

Last Saved By: richard.bartolo

Plotted: 2020-02-18

Last Saved: 2020-02-18

'SCENARIO 2' CONSIDERS ALL FLOW FROM EAST RAMBO POND DIRECTED TO EAST RAMBO CREEK, AS PER CONSERVATION HALTON REQUESTED SCENARIO. 'SCENARIO 2' IS HYPOTHETICAL ONLY AND IS NOT APPLIED FOR LAND USE PLANNING PURPOSES, BASED ON THE EAST RAMBO FLOOD CONTROL RETROFIT FEASIBILITY STUDY (WOOD 2019). FLOWS ON WEST RAMBO CREEK, FROM LEIGHLAND ROAD TO PLAINS ROAD EAST CANNOT BE CONTAINED BY THE CHANNEL AND SPILL WESTERLY ALONG PLAINS ROAD EAST AND ARE NOT PRESENTED.

Freeman Pond
East Rambo Pond
CNR Crossing
QEW
TREELAND ST.
LEIGHLAND RD.
BRANT ST.
PLAINS RD. E
QUEENSWAY DR.
HELENA ST.
BRENDA CR
GLENWOOD SCHOOL DR.
ORPHA ST.
HAZEL ST.
BRINELL AVE.
FASSEL AVE.
BURLINGTON MOBILITY HUB
West Rambo Creek
East Rambo Creek
LATERAL STRUCTURE 3
SPILL
355.12
333.13
318.50
304.63
277.29
272.49
232.44 (99.31 / 100.89)
222.48 (99.37 / 100.89)
202.11 (99.36 / 100.89)
40.68 (98.72 / 99.96)
38.48 (98.59 / 99.79)
1.18 (97.18 / 97.32)
0.01 (97.10 / 97.33)
89.16 (98.70 / 99.96)
59.83 (98.70 / 99.96)
200.00 (96.67 / 96.89)
220.00 (96.73 / 96.94)
160.00 (96.34 / 96.13)
106.00 (96.13 / 95.39)
90.00 (96.16 / 95.07)
50.00 (96.16 / 94.93)
30.00 (96.14 / 94.62)
10.00 (96.09 / 94.39)
0.00 (95.99 / 94.37)
130.00 (96.37 / 96.13)
122.00 (96.33 / 96.05)
70.00 (96.15 / 94.94)
1991.14 (96.67 / 95.39)
2001.66 (96.67 / 95.58)
2029.00 (96.65 / 95.59)
2175.40 (96.66 / 95.65)
2201.66 (96.66 / 95.66)
169.61 (99.18 / 100.74)
174.70 (99.38 / 100.89)
145.52 (98.87 / 99.86)
141.47 (98.91 / 99.96)
135.41 (98.72 / 99.96)
119.45 (98.72 / 99.96)
3104.64 (102.93 / 102.75)
3188.99 (103.29 / 102.60)
3059.84 (102.55 / 102.25)
3020.18 (102.15 / 102.15)
3005.78 (102.07 / 101.79)
2977.40 (102.02 / 101.79)
2938.69 (101.63 / 101.39)
2875.83 (101.05 / 100.68)
2802.17 (101.02 / 100.62)
2747.22 (101.18 / 100.75)
2711.59 (101.18 / 100.76)
2699.39 (101.18 / 100.76)
2656.19 (99.60 / 98.71)
2601.89 (98.44 / 98.31)
2557.34 (98.14 / 98.06)
2491.30 (97.95 / 97.05)
2468.12 (97.95 / 96.70)
1717.07 (95.79 / 94.32)
1703.42 (95.79 / 94.33)
1443.63 (95.74 / 94.31)
1454.46 (95.92 / 94.43)
1501.66 (95.92 / 94.43)
1667.58 (95.91 / 94.42)
1721.67 (95.74 / 94.27)
1650.54 (95.92 / 94.43)
2135.04 (96.66 / 95.64)
2101.66 (96.66 / 95.62)
2068.32 (96.65 / 95.60)
2240.22 (96.67 / 95.67)
2301.66 (96.67 / 95.70)
2401.66 (96.67 / 95.75)
2393.06 (96.73 / 95.83)
FAIRVIEW ST.
Hager-Rambo Diversion Channel
WEST RAMBO CREEK AT FAIRVIEW STREET
HAGER RAMBO DIVERSION CHANNEL AT FAIRVIEW STREET
EDINBURGH DR.
MAPLEWOOD DR.
ARGON CT.
JOYCE ST.
DRURY LN
ASHLEY AVE.
PROCTOR RD.
BARCLAY RD.
PROSPECT ST.

LEGEND

- MOBILITY HUB STUDY AREA
- WATERCOURSE
- CONTOUR (1m)
- PARCEL FABRIC
- CULVERT LOCATION
- STORM SEWER SYSTEM
- CROSS SECTION NUMBER
- REGIONAL STORM FLOOD ELEVATION (m)
- CROSS SECTION LOCATION
- 100 YEAR STORM FLOOD ELEVATION (m)
- LATERAL STRUCTURE (HEC-RAS)
- REGIONAL STORM FLOODPLAIN
- 100 YEAR STORM FLOODPLAIN
- SPILL LOCATION

SCALE VALID ONLY FOR 24"x36" VERSION

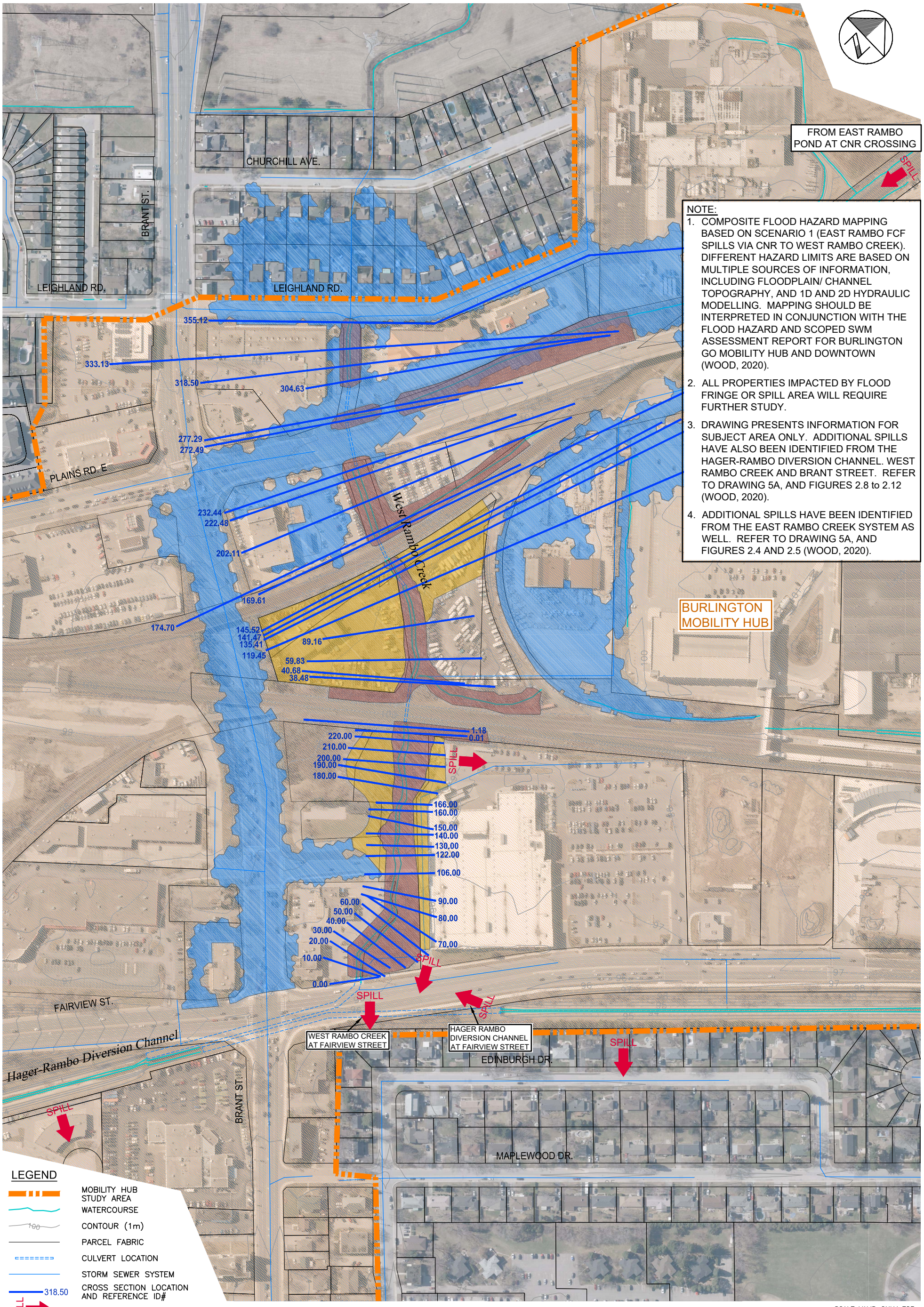
MOBILITY HUB PLANNING STUDY
CITY OF BURLINGTON

FLOODPLAIN MAPPING 'SCENARIO 2'
(HAGER-RAMBO DIVERSION CHANNEL & UPPER RAMBO CREEK)

wood.

Scale 1:2500 (0 25 50 100)
Consultant File No. TP178008S
Drawing No. 5B

Path: P:\2017\Projects\TP\178008S - Mobility Hub Planning Consulting Services\06_DES-ENG\01_CAD\02_DWGS\05_WR\01_PROJ\2019-12(Dtwn-BurRtEV)\Dwg5ab FloodPlain(UpperRambo).dwg
Plotted By: richard.bartolo
Last Saved By: richard.bartolo
Plotted: 2020-02-18
Last Saved: 2020-02-18



NOTE:

1. COMPOSITE FLOOD HAZARD MAPPING BASED ON SCENARIO 1 (EAST RAMBO FCF SPILLS VIA CNR TO WEST RAMBO CREEK). DIFFERENT HAZARD LIMITS ARE BASED ON MULTIPLE SOURCES OF INFORMATION, INCLUDING FLOODPLAIN/ CHANNEL TOPOGRAPHY, AND 1D AND 2D HYDRAULIC MODELLING. MAPPING SHOULD BE INTERPRETED IN CONJUNCTION WITH THE FLOOD HAZARD AND SCOPED SWM ASSESSMENT REPORT FOR BURLINGTON GO MOBILITY HUB AND DOWNTOWN (WOOD, 2020).
2. ALL PROPERTIES IMPACTED BY FLOOD FRINGE OR SPILL AREA WILL REQUIRE FURTHER STUDY.
3. DRAWING PRESENTS INFORMATION FOR SUBJECT AREA ONLY. ADDITIONAL SPILLS HAVE ALSO BEEN IDENTIFIED FROM THE HAGER-RAMBO DIVERSION CHANNEL. WEST RAMBO CREEK AND BRANT STREET. REFER TO DRAWING 5A, AND FIGURES 2.8 to 2.12 (WOOD, 2020).
4. ADDITIONAL SPILLS HAVE BEEN IDENTIFIED FROM THE EAST RAMBO CREEK SYSTEM AS WELL. REFER TO DRAWING 5A, AND FIGURES 2.4 AND 2.5 (WOOD, 2020).

LEGEND

- MOBILITY HUB STUDY AREA
- WATERCOURSE
- CONTOUR (1m)
- PARCEL FABRIC
- CULVERT LOCATION
- STORM SEWER SYSTEM
- 318.50 CROSS SECTION LOCATION AND REFERENCE ID#
- SPILL SPILL LOCATION
- NO DEVELOPMENT AREA FLOODWAY/TOP OF BANK
- AREA REQUIRES FURTHER STUDY FLOOD FRINGE
- AREA REQUIRES FURTHER STUDY SPILL AREA

SCALE VALID ONLY FOR 24"x36" VERSION

MOBILITY HUB PLANNING STUDY

CITY OF BURLINGTON

COMPOSITE FLOOD HAZARD MAPPING (UPPER WEST RAMBO CREEK)

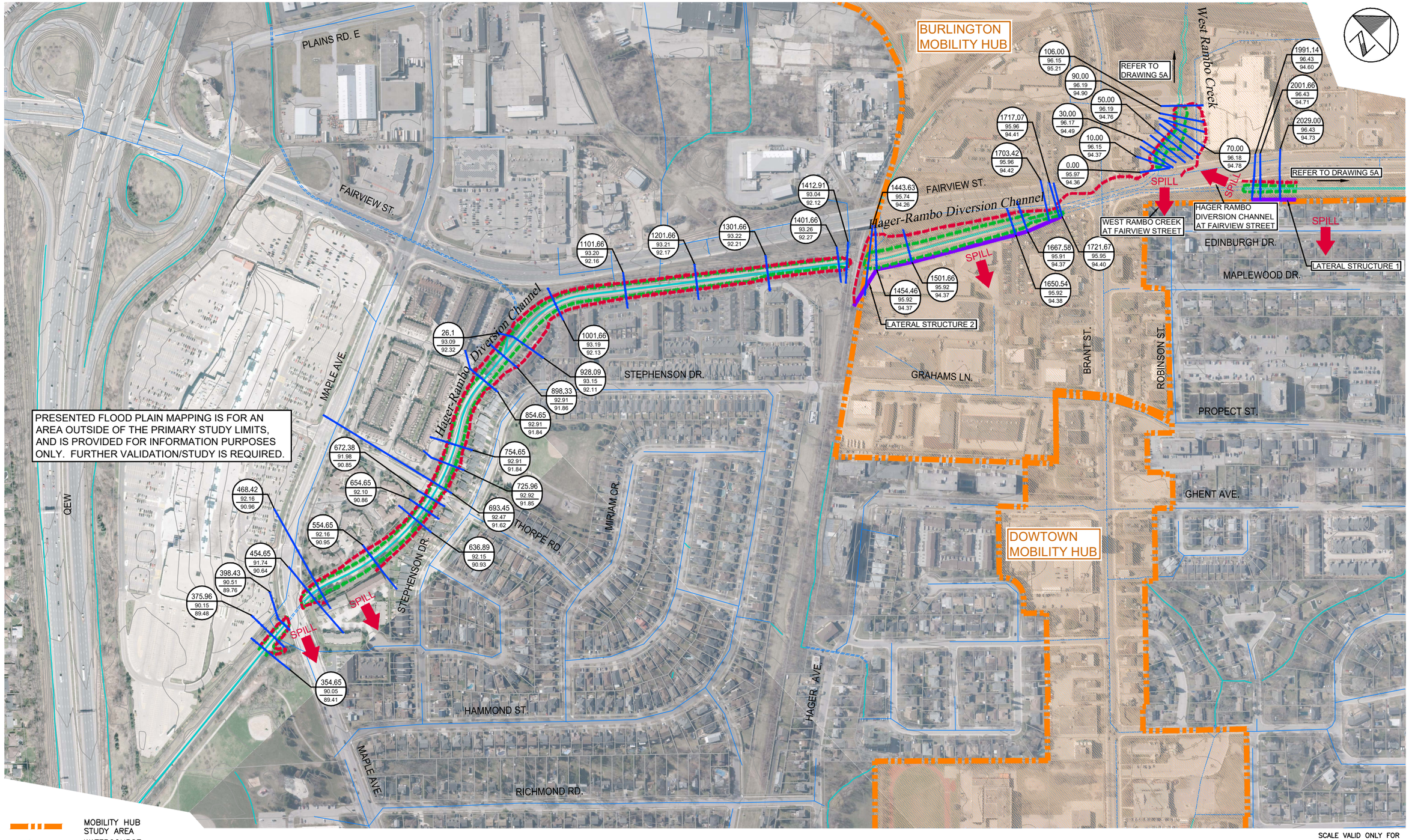
wood.

Scale 1:1500 (0, 15, 30, 60)

Consultant File No. TP178008S

Drawing No. 5C

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Last Saved: 2020-01-08 Last Saved By: richard.bartolo Plotted: 2020-01-08 Plotted By: richard.bartolo



MOBILITY HUB STUDY AREA
WATERCOURSE
CONTOUR (1m)
PARCEL FABRIC
CULVERT LOCATION
STORM SEWER SYSTEM

CROSS SECTION NUMBER
REGIONAL STORM FLOOD ELEVATION (m)
CROSS SECTION LOCATION
100 YEAR STORM FLOOD ELEVATION (m)
(100.25 / 101.00 / 100.00)

LATERAL STRUCTURE (HEC-RAS)
REGIONAL STORM FLOODPLAIN
100 YEAR STORM FLOODPLAIN
SPILL LOCATION

SCALE VALID ONLY FOR 24"x36" VERSION

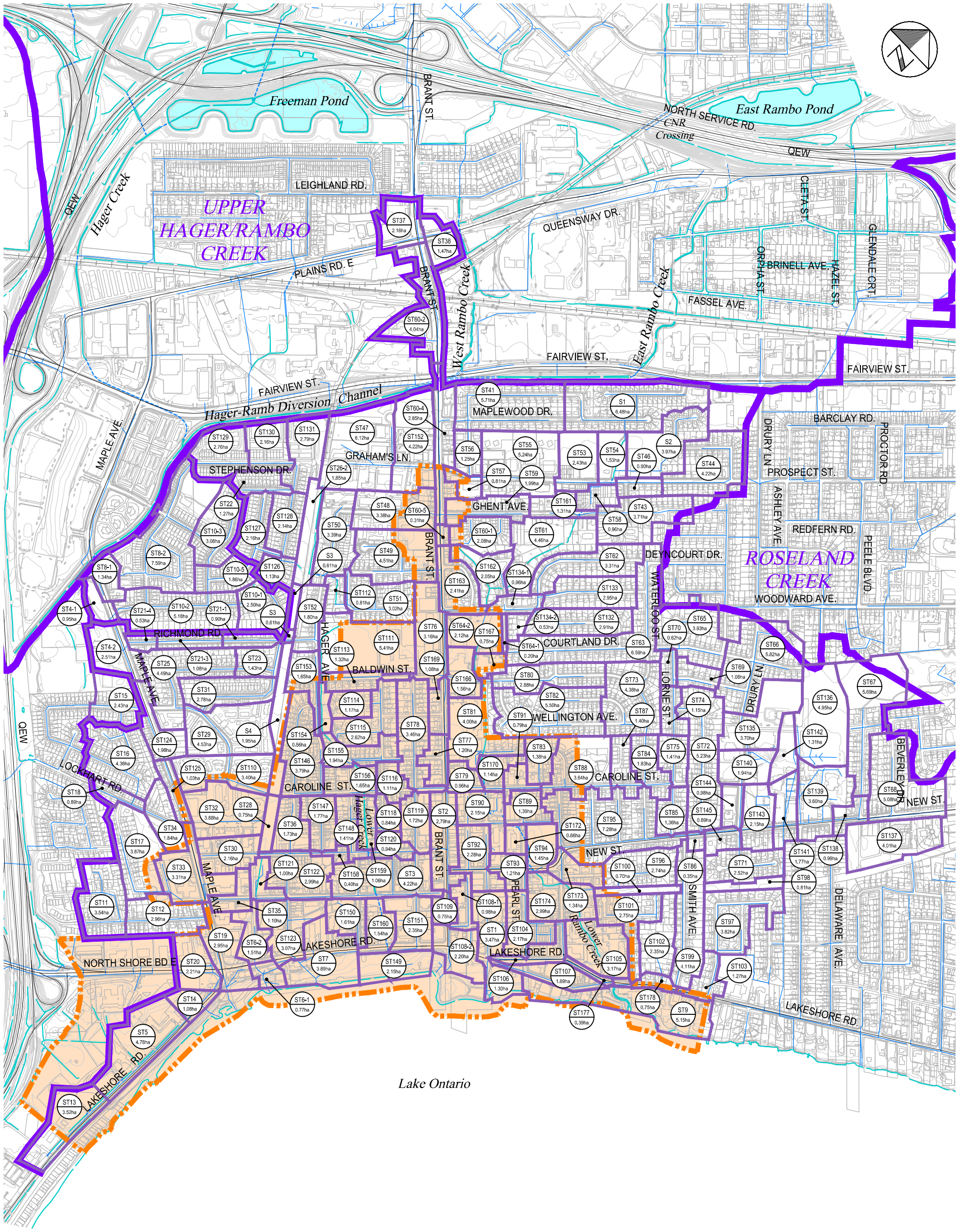
MOBILITY HUB PLANNING STUDY
CITY OF BURLINGTON

FLOODPLAIN MAPPING 'SCENARIO 1'
(HAGER-RAMBO DIVERSION CHANNEL)

wood.

Scale 1:2500 (0 25 50 100)
Consultant File No. TP178008S
Drawing No. 5D

Path: P:\2017\Projects\TP\178008S - Mobility Hub Planning Consulting Services\06_DES-ENG\01_CAD\02_DWGS\05_WR\01_PROJ\2019-12(Dtwn-BurlREV)\Dwg5d FloodPlain(UpperRambo).dwg
Plotted By: richard.bartolo
Last Saved By: richard.bartolo
Plotted: 2020-01-08
Last Saved: 2019-12-17



LEGEND

- MOBILITY HUB STUDY AREA
- WATERCOURSE
- CONTOUR (1m)
- PRIMARY ROADWAY
- PARCEL FABRIC
- CULVERT LOCATION
- STORM SEWER SYSTEM
- WATERSHED BOUNDARY
- SUBCATCHMENT BOUNDARY
- 100 / 25.0ha — SUBCATCHMENT ID# / SUBCATCHMENT AREA

SCALE VALID ONLY FOR 24"x36" VERSION

MOBILITY HUB PLANNING STUDY

CITY OF BURLINGTON

SUBCATCHMENT BOUNDARY PLAN (DOWNTOWN AREA)

wood.

Scale 1:6000 (0 75 150 300)

Consultant File No. TP178008S

Drawing No. 6

Last Saved: 2018-11-12 Last Saved By: richard.bartolo Plotted: 2018-12-06 Plotted By: richard.bartolo Path: P:\2017\Projects\TP178008S - Mobility Hub Planning Consulting Services\06_DES-ENG\01_CAD\02_DWGS\05_WR\01_PROJ\2018-11(Dtwn-Burl)\Dwg6 Subcatchment(Downtown).dwg



LEGEND

- MOBILITY HUB STUDY AREA
- WATERCOURSE
- CONTOUR (1m)
- PARCEL FABRIC
- CULVERT LOCATION
- STORM SEWER SYSTEM
- SAG POINT
- OVERLAND FLOW NODE (DEPTH 150mm–300mm)
- OVERLAND FLOW NODE (DEPTH GREATER THEN 300mm)

SCALE VALID ONLY FOR 24"x36" VERSION

MOBILITY HUB PLANNING STUDY

CITY OF BURLINGTON

URBAN FLOODING PLAN 100 YEAR STORM (DOWNTOWN AREA)

wood.

Scale 1:5000 (0, 50, 100, 200)

Consultant File No. TP178008S

Drawing No. 7

Last Saved: 2018-11-12 Last Saved By: richard.bartolo Plotted: 2018-12-06 Plotted By: richard.bartolo
Path: P:\2017\Projects\TPB178008S – Mobility Hub Planning Consulting Services\06_DES-ENG\01_CAD\02_DWGS\05_WR\01_PRO\2018-11(Dtwn-Burl)\Dwg7-8 UrbanFlooding(Downtown).dwg



LEGEND

- MOBILITY HUB STUDY AREA
- WATERCOURSE
- CONTOUR (1m)
- PARCEL FABRIC
- CULVERT LOCATION
- STORM SEWER SYSTEM
- SAG POINT
- OVERLAND FLOW NODE (DEPTH 150mm–300mm)
- OVERLAND FLOW NODE (DEPTH GREATER THEN 300mm)

SCALE VALID ONLY FOR 24"x36" VERSION

MOBILITY HUB PLANNING STUDY

CITY OF BURLINGTON

URBAN FLOODING PLAN REGIONAL STORM (DOWNTOWN AREA)

wood.

Scale 1:5000 (0 50 100 200)

Consultant File No. TP178008S

Drawing No. 8

Path: P:\2017\Projects\TPB178008S – Mobility Hub Planning Consulting Services\06_DES-ENG\01_CAD\02_DWGS\05_WR\01_PROJ\2018-11(Dtwn-Burl)\Dwg7-8 UrbanFlooding(Downtown).dwg
Last Saved: 2018-11-12 Last Saved By: richard.bartolo Plotted: 2018-12-06 Plotted By: richard.bartolo



LEGEND

- MOBILITY HUB STUDY AREA
- WATERCOURSE
- CONTOUR (1m)
- PARCEL FABRIC
- CULVERT LOCATION
- STORM SEWER SYSTEM
- SAG POINT
- OVERLAND FLOW NODE (DEPTH 150mm–300mm)
- OVERLAND FLOW NODE (DEPTH GREATER THEN 300mm)

SCALE VALID ONLY FOR 24"x36" VERSION

MOBILITY HUB PLANNING STUDY

CITY OF BURLINGTON

URBAN FLOODING PLAN REGIONAL STORM WITH SPILLS (DOWNTOWN AREA)

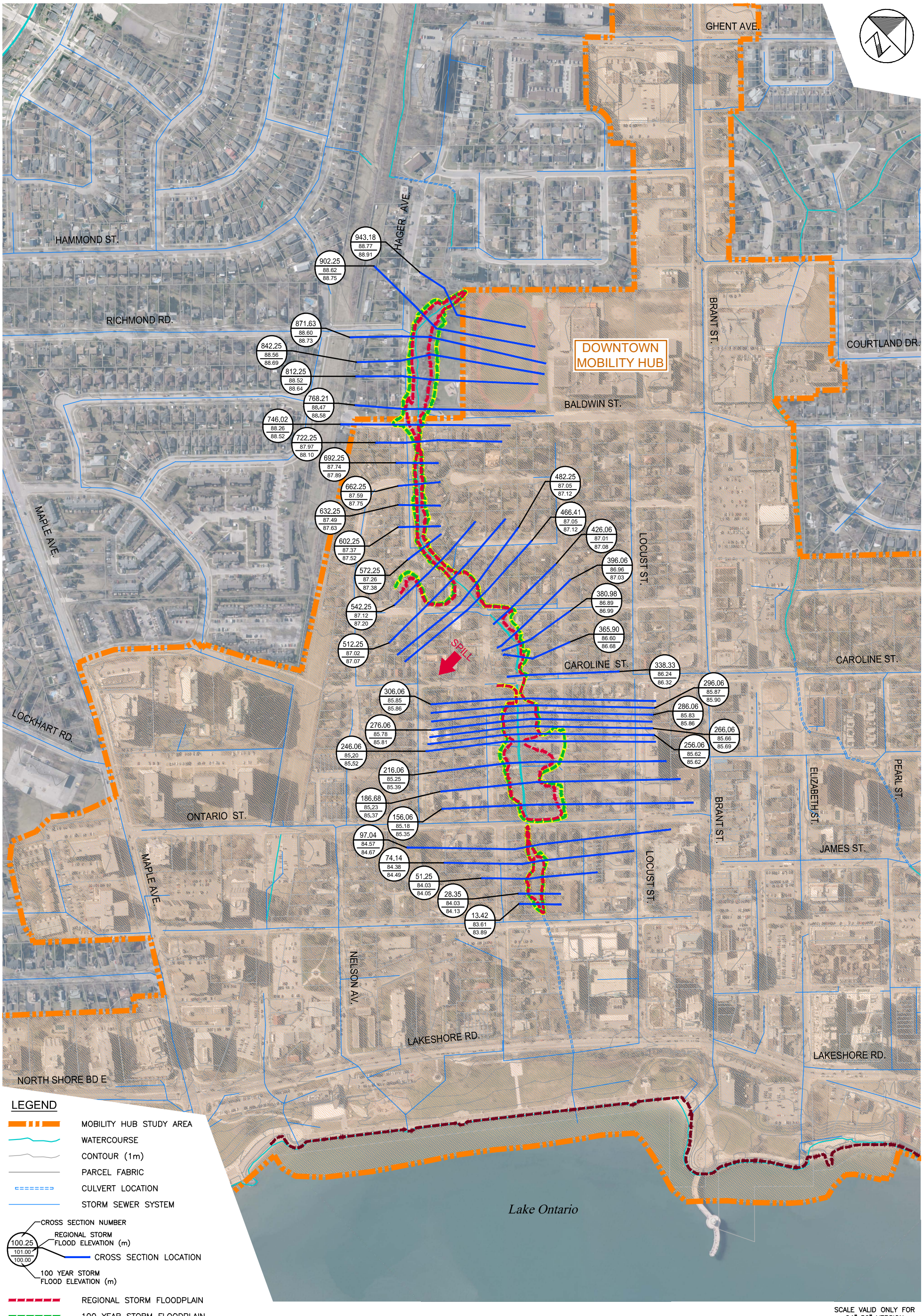
wood.

Scale 1:5000 (0 50 100 200)

Consultant File No. TP178008S

Drawing No. 9

Path: P:\2017\Projects\TPB1780085 – Mobility Hub Planning Consulting Services\06_DES-ENG\01_CAD\02_DWGS\05_WR\01_PROJ\2018-11(Dtwn-Burl)\Dwg9 UrbanFloodingSpills(Downtown).dwg
Last Saved: 2018-11-12 Last Saved By: richard.bartolo Plotted: 2018-12-06 Plotted By: richard.bartolo



LEGEND

- MOBILITY HUB STUDY AREA
- WATERCOURSE
- CONTOUR (1m)
- PARCEL FABRIC
- CULVERT LOCATION
- STORM SEWER SYSTEM

CROSS SECTION NUMBER
100.25 — REGIONAL STORM FLOOD ELEVATION (m)
CROSS SECTION LOCATION
101.00
100.00 — 100 YEAR STORM FLOOD ELEVATION (m)

- REGIONAL STORM FLOODPLAIN
- 100 YEAR STORM FLOODPLAIN
- 100 YEAR LAKE ONTARIO FLOOD LEVEL (EL. 76.0m)
- REGULATORY STORM FLOODPLAIN
- SPILL — SPILL LOCATION

SCALE VALID ONLY FOR 24"x36" VERSION

MOBILITY HUB PLANNING STUDY

CITY OF BURLINGTON

FLOODPLAIN MAPPING (LOWER HAGER CREEK)

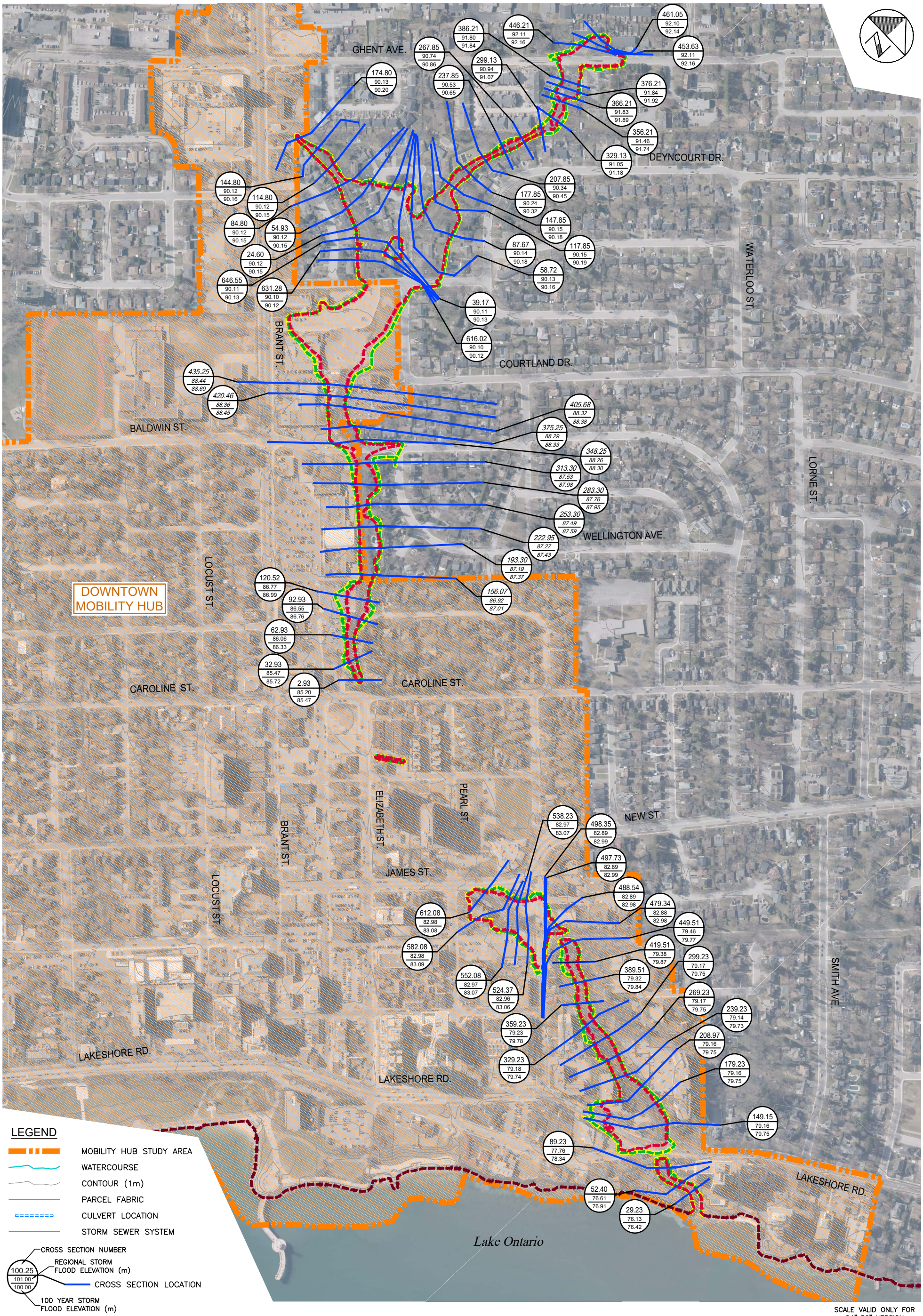
wood.

Scale 1:2500 (0 25 50 100)

Consultant File No. TP178008S

Drawing No. 10

Path: P:\2017\Projects\TPB178008S – Mobility Hub Planning Consulting Services\06_DES-ENG\01_CAD\02_DWGS\05_WR\01_PROJ\2019-12(Dtwn-BurlREV)\Dwg10-12 FloodPlain(Downtown).dwg
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LEGEND

- MOBILITY HUB STUDY AREA
- WATERCOURSE
- CONTOUR (1m)
- PARCEL FABRIC
- CULVERT LOCATION
- STORM SEWER SYSTEM

100.25 / 101.00 / 100.00 — CROSS SECTION NUMBER; REGIONAL STORM FLOOD ELEVATION (m); CROSS SECTION LOCATION; 100 YEAR STORM FLOOD ELEVATION (m)

- REGIONAL STORM FLOODPLAIN
- 100 YEAR STORM FLOODPLAIN
- 100 YEAR LAKE ONTARIO FLOOD LEVEL (EL. 76.0m)
- REGULATORY STORM FLOODPLAIN

SCALE VALID ONLY FOR 24"x36" VERSION

MOBILITY HUB PLANNING STUDY

CITY OF BURLINGTON

FLOODPLAIN MAPPING WITH NO SPILLS (LOWER RAMBO CREEK)

wood.

Scale 1:2500 (0 25 50 100)

Consultant File No. TP178008S

Drawing No. 11

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FROM HAGER-RAMBO DIVERSION CHANNEL

SPILL

FLOODPLAIN LIMITS TO THE NORTH OF BLAIRHOLM AVENUE ARE AS PER EXISTING CONDITIONS (BLAIRHOLM AVENUE ENCLOSURE IN PLACE). FLOODPLAIN LIMITS TO THE SOUTH OF THIS AREA ASSUME THE FUTURE REMOVAL OF THE BLAIRHOLM AVENUE ENCLOSURE AND ASSOCIATED FLOW ATTENUATION, AS PER PROVINCIAL POLICY (MNRF, 2002).

DOWNTOWN MOBILITY HUB

GHENT AVE.
BLAIRHOLM AVE.
DEYNCOURT DR.
COURTLAND DR.
WELLINGTON AVE.
CAROLINE ST.
JAMES ST.
NEW ST.
LAKESHORE RD.
BALDWIN ST.
BRANT ST.
LOCUST ST.
ELIZABETH ST.
PEARL ST.
WATERLOO ST.
LORNE ST.
SMITH AVE.

Lake Ontario

461.05	92.10	92.14
446.21	92.11	92.16
453.63	92.11	92.16
386.21	91.80	91.84
267.85	90.80	90.86
299.13	90.95	91.07
237.85	90.70	90.65
174.80	90.93	90.20
376.21	91.84	91.92
366.21	91.83	91.89
356.21	91.46	91.74
329.13	91.06	91.18
207.85	90.63	90.45
177.85	90.60	90.32
147.85	90.59	90.18
117.85	90.59	90.19
87.67	90.59	90.18
58.72	90.59	90.16
144.80	90.68	90.16
114.80	90.66	90.15
84.80	90.58	90.15
54.93	90.59	90.15
24.60	90.58	90.15
646.55	90.58	90.13
631.28	90.58	90.12
39.17	90.59	90.13
616.02	90.58	90.12
435.25	89.75	88.69
420.46	88.71	88.45
405.68	88.61	88.38
375.25	88.56	88.33
348.25	88.53	88.30
313.30	88.34	87.98
283.30	88.29	87.95
253.30	87.72	87.59
222.95	87.74	87.43
193.30	87.67	87.37
156.07	87.15	87.01
120.52	87.18	86.99
92.93	86.96	86.76
62.93	86.80	86.33
32.93	86.33	85.72
2.93	86.33	85.47
538.23	83.12	83.07
498.35	83.05	82.99
497.73	83.05	82.99
488.54	83.03	82.98
479.34	83.03	82.98
449.51	79.84	79.77
419.51	79.86	79.87
299.23	79.69	79.75
389.51	79.81	79.84
269.23	79.68	79.75
239.23	79.65	79.73
208.97	79.69	79.75
179.23	79.69	79.75
149.15	79.69	79.75
612.08	83.12	83.08
582.08	83.14	83.09
552.08	83.12	83.07
524.37	83.11	83.06
359.23	79.73	79.78
329.23	79.67	79.74
89.23	78.29	78.34
52.40	76.89	76.91
29.23	76.40	76.42

LEGEND

- MOBILITY HUB STUDY AREA
- WATERCOURSE
- CONTOUR (1m)
- PARCEL FABRIC
- CULVERT LOCATION
- STORM SEWER SYSTEM
- CROSS SECTION NUMBER
- REGIONAL STORM (WITH SPILLS) FLOOD ELEVATION (m)
- CROSS SECTION LOCATION
- 100 YEAR STORM (WITHOUT SPILLS) FLOOD ELEVATION (m)

(Example: 100.25 / 101.00 / 100.00)

- REGIONAL STORM FLOODPLAIN (WITH SPILLS)
- 100 YEAR STORM FLOODPLAIN (WITHOUT SPILLS)
- 100 YEAR LAKE ONTARIO FLOOD LEVEL (EL. 76.0m)
- REGULATORY STORM FLOODPLAIN
- SPILL LOCATION

SCALE VALID ONLY FOR 24"x36" VERSION

MOBILITY HUB PLANNING STUDY

CITY OF BURLINGTON

REGIONAL FLOODPLAIN MAPPING WITH SPILLS (LOWER RAMBO CREEK)

wood.

Scale 1:2500 (0 25 50 100)

Consultant File No. TP178008S

Drawing No. 12

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LEGEND

- MOBILITY HUB STUDY AREA
- WATERCOURSE
- CONTOUR (1m)
- PARCEL FABRIC
- CULVERT LOCATION
- STORM SEWER SYSTEM
- STORM SEWER SYSTEM NOT SURCHARGED
- STORM SEWER SYSTEM SURCHARGED
- STORM SEWER SYSTEM FLOODED

SCALE VALID ONLY FOR 24"x36" VERSION

MOBILITY HUB PLANNING STUDY

CITY OF BURLINGTON

STORM SEWER CAPACITY 5 YEAR STORM (DOWNTOWN AREA)

wood.

Scale 1:5000 (0 50 100 200)

Consultant File No. TP178008S

Drawing No. 13

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Last Saved: 2018-12-05 Last Saved By: richard.bartolo Plotted: 2018-12-06 Plotted By: richard.bartolo