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Produced by the City of Guelph  
 Infrastructure, Development & Enterprise  
 Engineering Services  
 July 31, 2015

### Figure 1

York Road from Wyndham Street to East City Limits Study Area

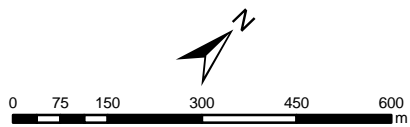


I:\gis\_staging\Engineering\GIS Request\15-024\GIS 15-024(01) York Road - Fig 01 - Study Area.mxd





- Legend**
- Watercourses
  - SWM Pond
  - Waterbodies
  - Culvert
  - Storm Pipe
  - Approximate Study Area
- Wildlife Crossing**
- Wildlife Crossings**
- ↔ Amphibian Crossings
  - ↔ Deer Crossings
  - ◆ Other Wildlife Crossing Opportunities

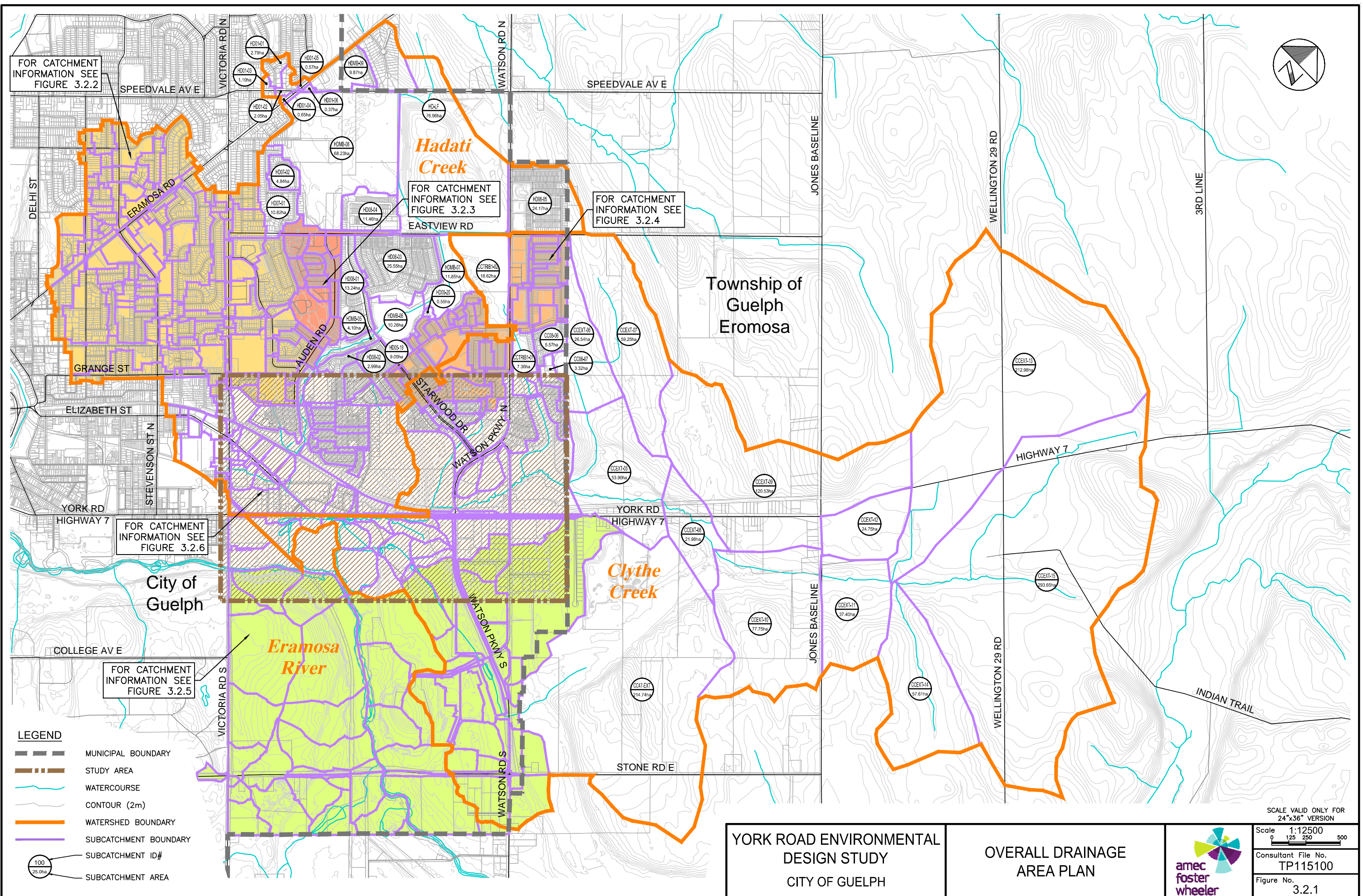


**Figure 2**  
**York Road Environmental Design Study Area**





Plotted: 2017-03-09  
 Last Saved: 2017-03-08  
 Plotted By: richard.bartolo  
 Last Saved By: richard.bartolo  
 Path: P:\Work\TP115100\water\dwg\2016-11\Fig1 OverallDrainage(Ex).dwg



FOR CATCHMENT INFORMATION SEE FIGURE 3.2.2

FOR CATCHMENT INFORMATION SEE FIGURE 3.2.3

FOR CATCHMENT INFORMATION SEE FIGURE 3.2.4

FOR CATCHMENT INFORMATION SEE FIGURE 3.2.6

FOR CATCHMENT INFORMATION SEE FIGURE 3.2.5

- LEGEND**
- MUNICIPAL BOUNDARY
  - STUDY AREA
  - WATERCOURSE
  - CONTOUR (2m)
  - WATERSHED BOUNDARY
  - SUBCATCHMENT BOUNDARY
  - SUBCATCHMENT ID#
  - SUBCATCHMENT AREA

YORK ROAD ENVIRONMENTAL  
 DESIGN STUDY  
 CITY OF GUELPH

OVERALL DRAINAGE  
 AREA PLAN



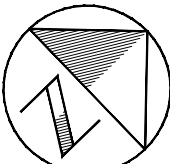
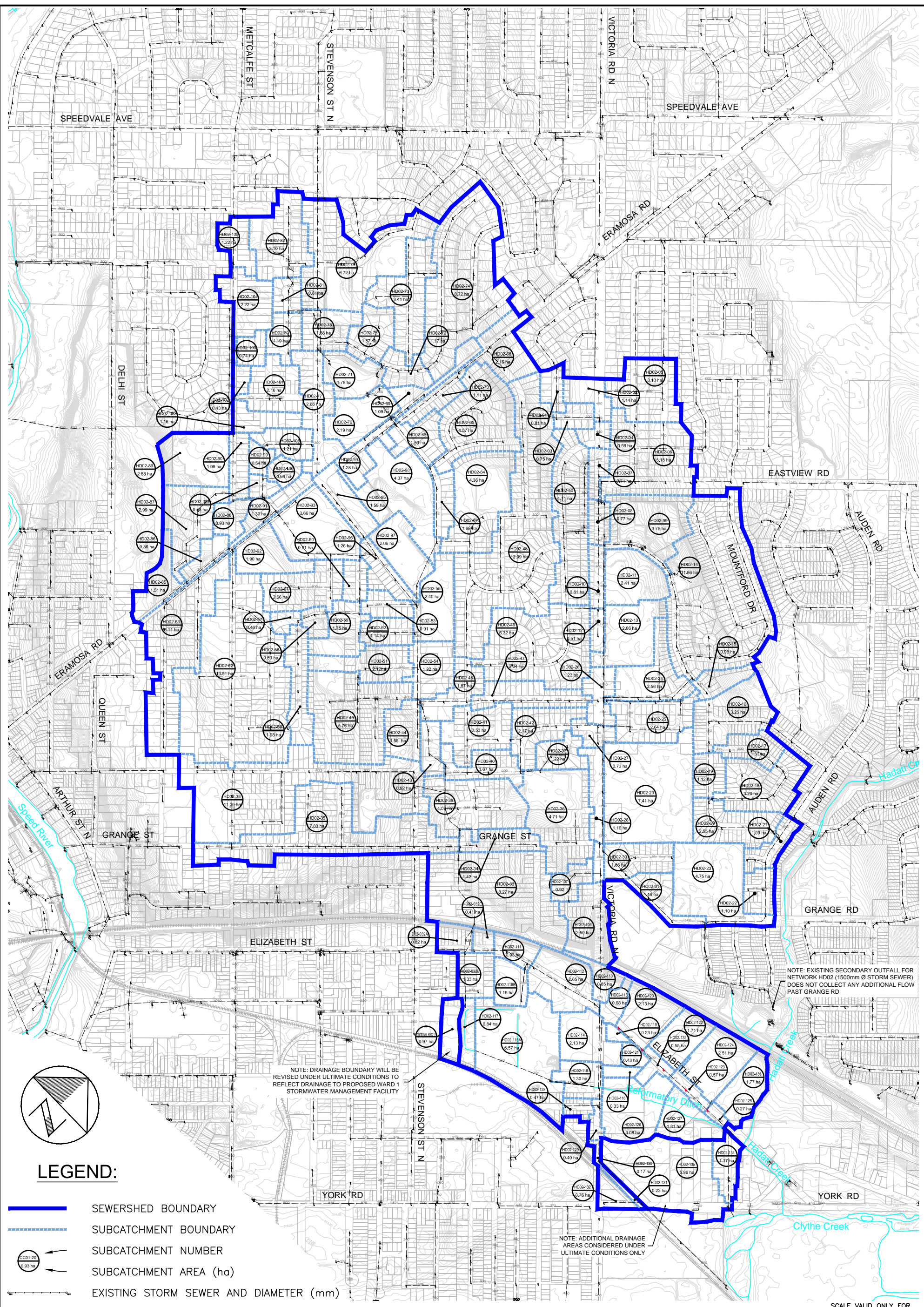
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Consultant File No. TP115100  
 Figure No. 3.2.1



Path: P:\Work\TP115100\water.dwg, 2016-11-11\Fig 1a DrainageApp-HD02.dwg  
 Plotted By: richard.bartolo  
 Plotted: 2017-03-09  
 Last Saved: 2017-03-08



**LEGEND:**

- SEWERSHED BOUNDARY
- - - SUBCATCHMENT BOUNDARY
- CC01-20 → SUBCATCHMENT NUMBER
- 0.93 ha → SUBCATCHMENT AREA (ha)
- EXISTING STORM SEWER AND DIAMETER (mm)

NOTE: DRAINAGE BOUNDARY WILL BE REVISED UNDER ULTIMATE CONDITIONS TO REFLECT DRAINAGE TO PROPOSED WARD 1 STORMWATER MANAGEMENT FACILITY

NOTE: ADDITIONAL DRAINAGE AREAS CONSIDERED UNDER ULTIMATE CONDITIONS ONLY

NOTE: EXISTING SECONDARY OUTFALL FOR NETWORK HD02 (1500mm Ø STORM SEWER) DOES NOT COLLECT ANY ADDITIONAL FLOW PAST GRANGE RD

SCALE VALID ONLY FOR 24"x36" VERSION

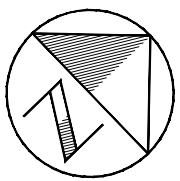
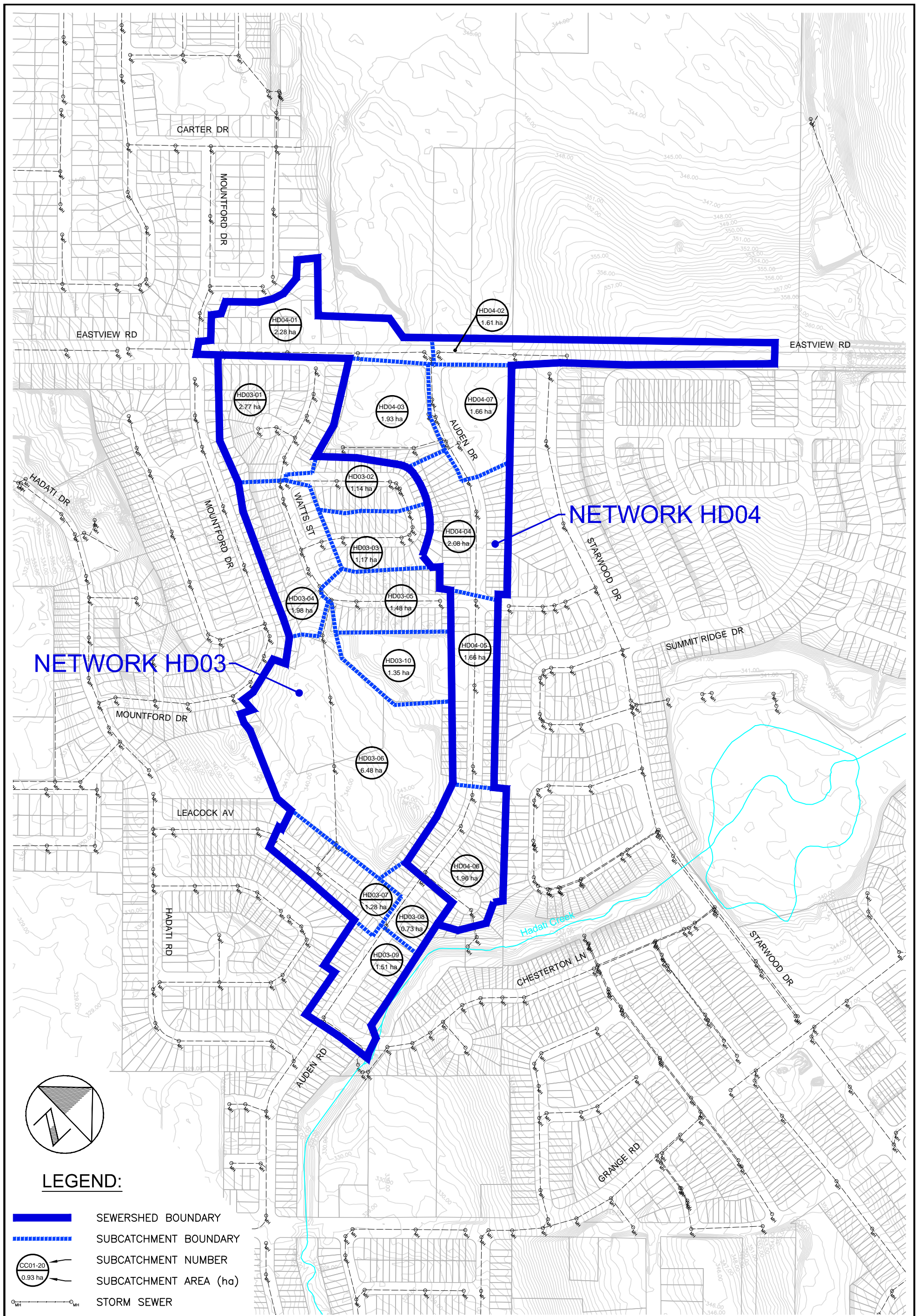
**YORK ROAD ENVIRONMENTAL DESIGN STUDY**  
 CITY OF GUELPH

**ELIZABETH STREET RECONSTRUCTION**  
**SUB-CATCHMENT BOUNDARY**  
**PLAN NETWORK HD02**



Scale 1:5000  
 0 50 100 200  
 Consultant File No. TP115100  
 Figure No. 3.2.2





**LEGEND:**

- SEWERSHED BOUNDARY
- SUBCATCHMENT BOUNDARY
- SUBCATCHMENT NUMBER  
SUBCATCHMENT AREA (ha)
- STORM SEWER

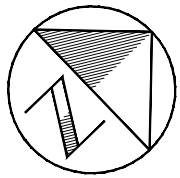
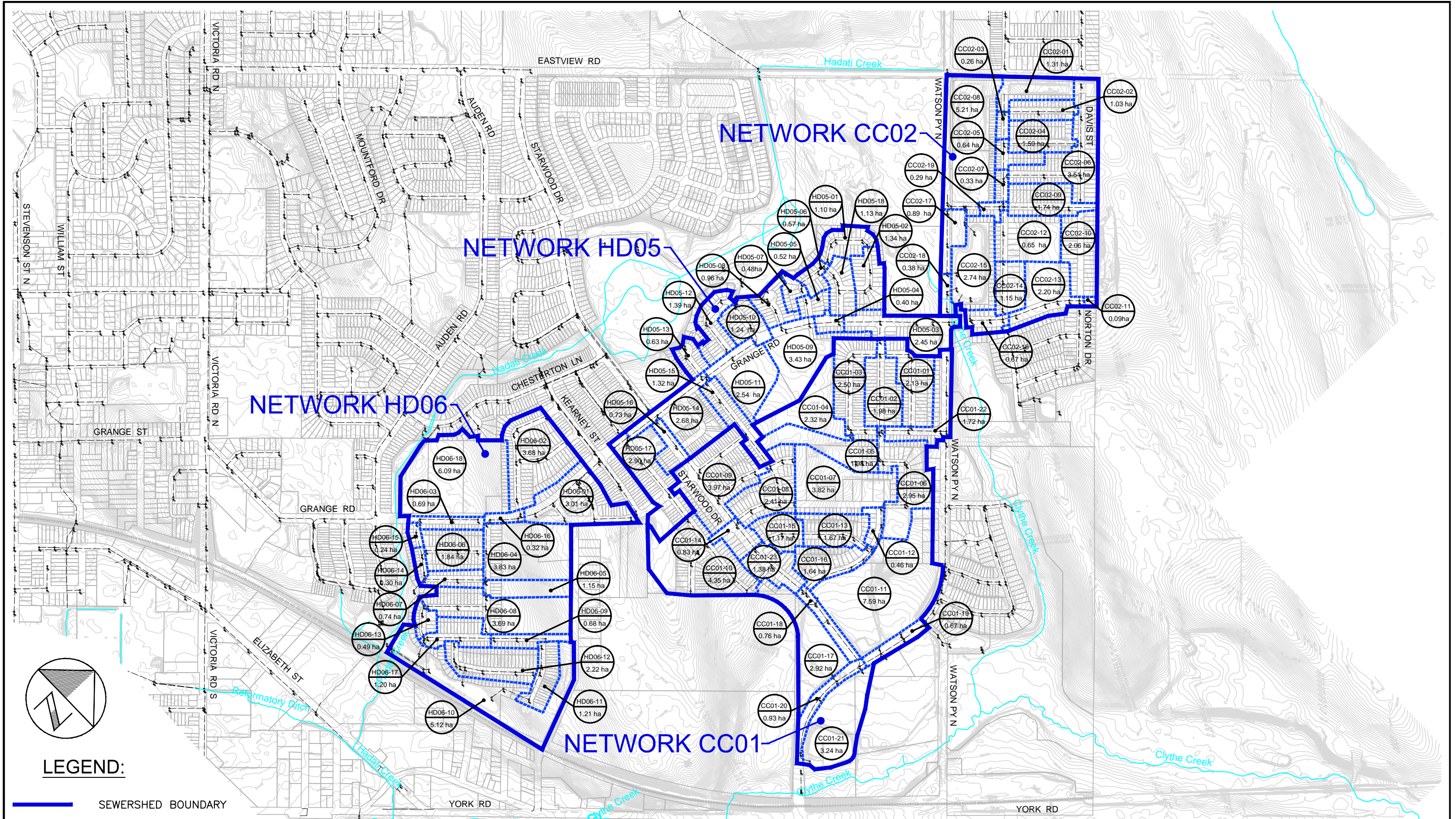
YORK ROAD ENVIRONMENTAL  
DESIGN STUDY  
CITY OF GUELPH

STORMWATER MANAGEMENT  
MASTER PLAN  
SUB-CATCHMENT  
BOUNDARY PLAN  
NETWORK HD03 & HD04



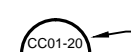
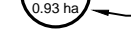



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Consultant File No.  
TP115100  
Figure No.  
3.2.3





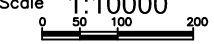
**LEGEND:**

-  SEWERSHED BOUNDARY
-  SUBCATCHMENT BOUNDARY
-  SUBCATCHMENT NUMBER
-  SUBCATCHMENT AREA (ha)
-  STORM SEWER

**YORK ROAD ENVIRONMENTAL  
DESIGN STUDY**  
CITY OF GUELPH

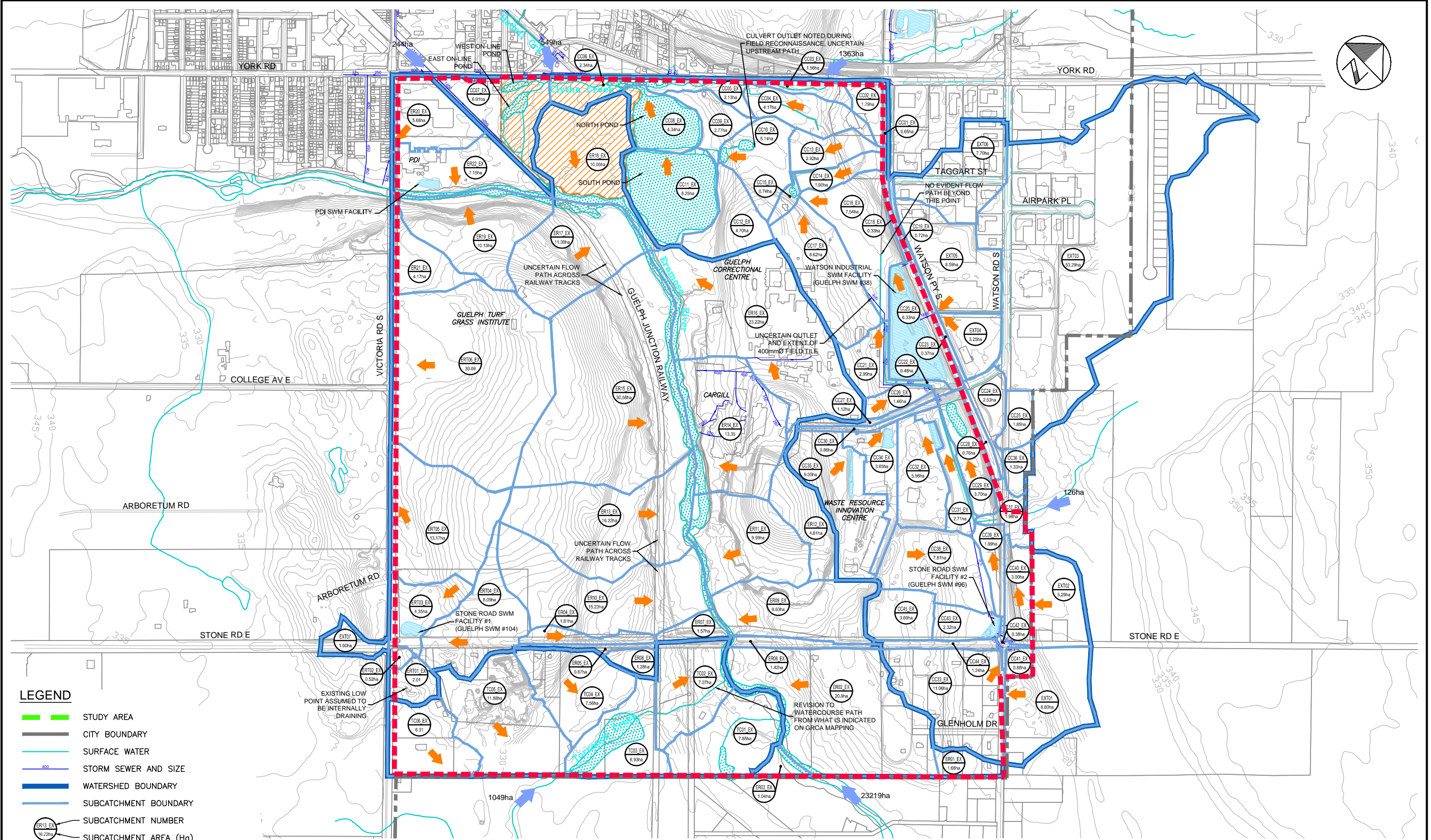
**STORMWATER MANAGEMENT  
MASTER PLAN  
SUB-CATCHMENT  
BOUNDARY PLAN**  
NETWORK CC01, CC02, HD05 & HD06



Scale 1:10000  
  
 Consultant File No.  
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 Figure No.  
 3.2.4

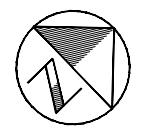


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 Last Saved: 2017-03-08  
 Plotted By: richard.bartolo  
 Last Saved By: richard.bartolo  
 Path: P:\Work\TP115100\water\dwg\2016-11\Fig1.d DrainageApp-CID.dwg



**LEGEND**

- STUDY AREA
- CITY BOUNDARY
- SURFACE WATER
- STORM SEWER AND SIZE
- WATERSHED BOUNDARY
- SUBCATCHMENT BOUNDARY
- ERT13 EX  
16.22ha SUBCATCHMENT NUMBER
- TC06 EX  
6.31 SUBCATCHMENT AREA (Ha)
- SWM FACILITY (EXISTING)
- EXISTING POND OR RIVER
- DRAINAGE DIRECTION
- EXTERNAL CONTRIBUTING DRAINAGE AREA (NOT MODELED)
- ROYAL CITY JACEES PARK BOUNDARY



**YORK ROAD ENVIRONMENTAL  
 DESIGN STUDY  
 CITY OF GUELPH**

**GUELPH INNOVATION DISTRICT  
 EXISTING CONDITIONS  
 SUBCATCHMENT  
 BOUNDARY PLAN**



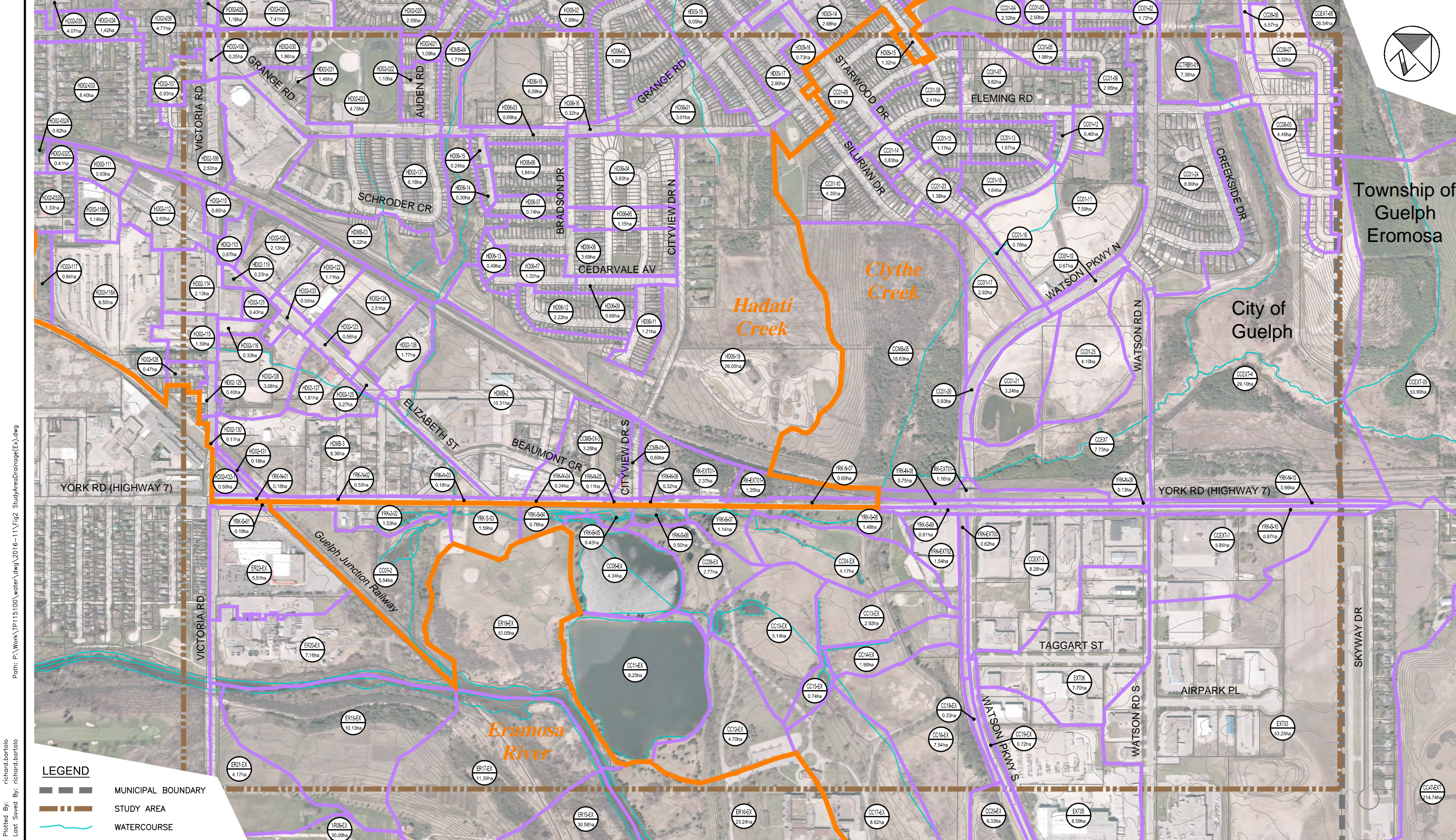
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Consultant File No.  
 TP115100

Figure No.  
 3.2.5





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 Plotted By: richard.bartolo  
 Last Saved By: richard.bartolo

**LEGEND**

- MUNICIPAL BOUNDARY
- STUDY AREA
- WATERCOURSE
- CONTOUR (1m)
- WATERSHED BOUNDARY
- SUBCATCHMENT BOUNDARY
- 100 SUBCATCHMENT ID#
- 25.0ha SUBCATCHMENT AREA

**YORK ROAD ENVIRONMENTAL  
 DESIGN STUDY  
 CITY OF GUELPH**

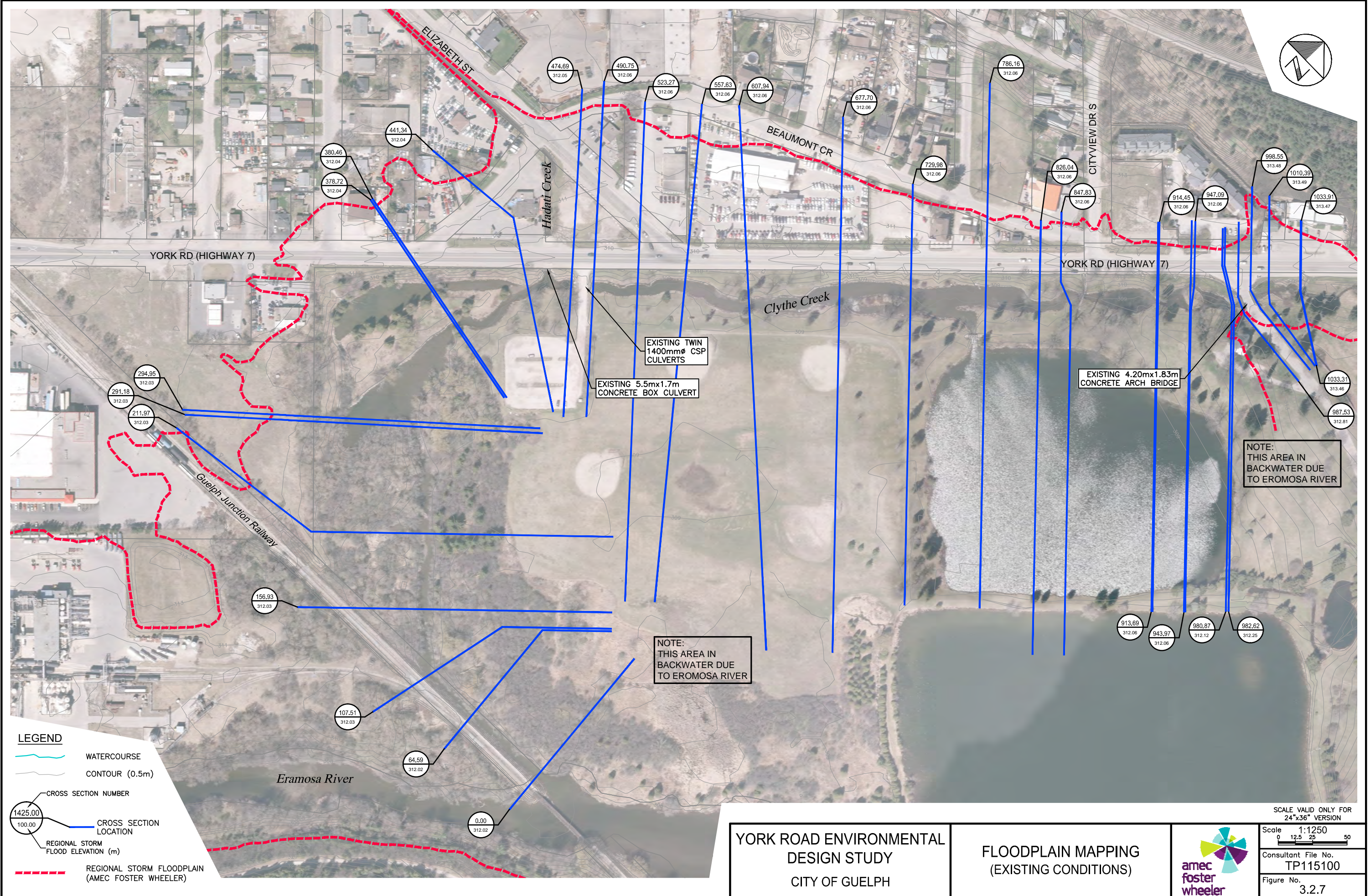
**STUDY AREA  
 DRAINAGE PLAN  
 (EXISTING CONDITIONS)**



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 Consultant File No.  
**TP115100**  
 Figure No.  
**3.2.6**



Plotted: 2017-03-10  
 Last Saved: 2017-03-09  
 Plotted By: richard.bartolo  
 Last Saved By: richard.bartolo  
 Path: P:\Work\TP115100\water\dwg\2016-11\Fig4\_FloodlineMapping(Ex).dwg



**YORK ROAD ENVIRONMENTAL DESIGN STUDY**  
 CITY OF GUELPH

**FLOODPLAIN MAPPING (EXISTING CONDITIONS)**

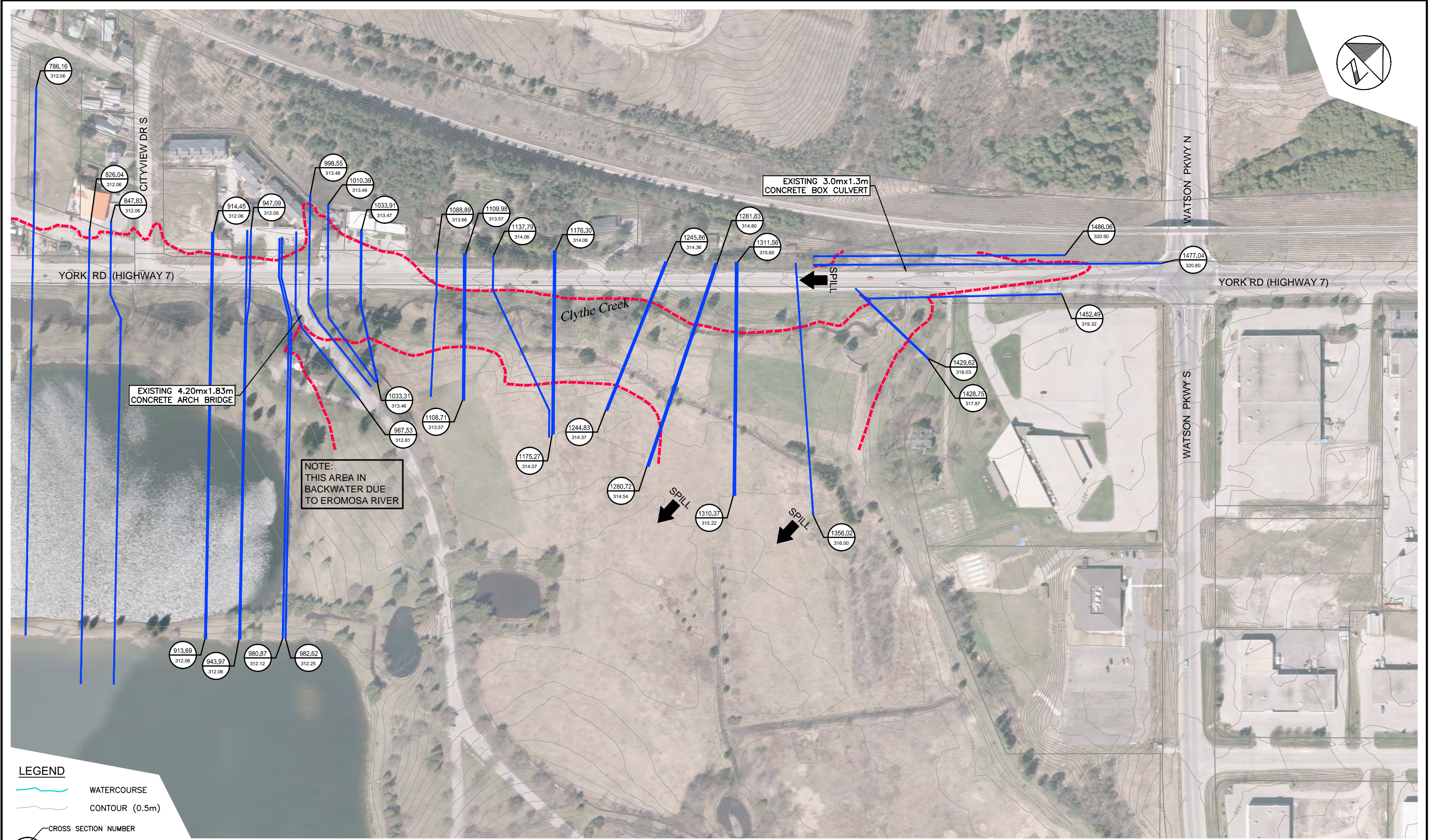


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 Consultant File No. TP115100  
 Figure No. 3.2.7



Pain: P:\Work\TP115100\water\dwg\2016-11\Fig4 FloodlineMapping(Ex).dwg

Plotted: 2017-03-10  
Last Saved: 2017-03-09  
Plotted By: richard.bartolo  
Last Saved By: richard.bartolo



**LEGEND**

- WATERCOURSE
- CONTOUR (0.5m)
- CROSS SECTION NUMBER
- CROSS SECTION LOCATION
- REGIONAL STORM FLOOD ELEVATION (m)
- REGIONAL STORM FLOODPLAIN (AMEC FOSTER WHEELER)

YORK ROAD ENVIRONMENTAL  
DESIGN STUDY  
CITY OF GUELPH

FLOODPLAIN MAPPING  
(EXISTING CONDITIONS)



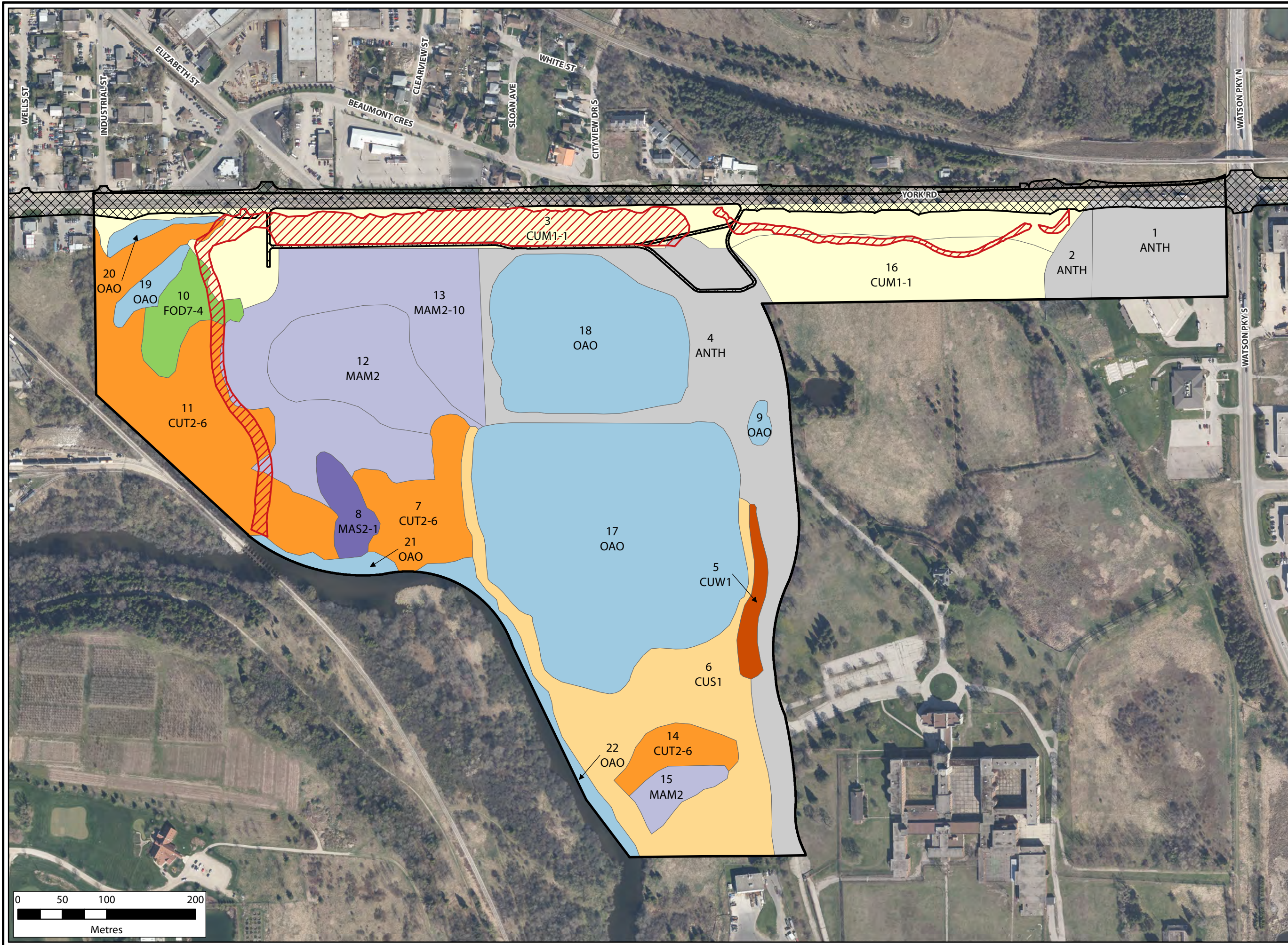
SCALE VALID ONLY FOR  
24"x36" VERSION

Scale 1:1250  
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Consultant File No.  
TP115100

Figure No.  
3.2.8





**Legend**

- D&A Study Area
- Grading Extent (March 8, 2017)**
- Creek Re-alignment
- Road & Path
- Vegetation Communities**
- Anthropogenic
- Cultural Meadow
- Cultural Savannah
- Cultural Thicket
- Cultural Woodland
- Deciduous Forest
- Meadow Marsh
- Shallow Marsh
- Open Aquatic

York Rd Environmental Design  
**Vegetation Communities  
 & Area of Disturbance**



PROJECT: DA15-061-01

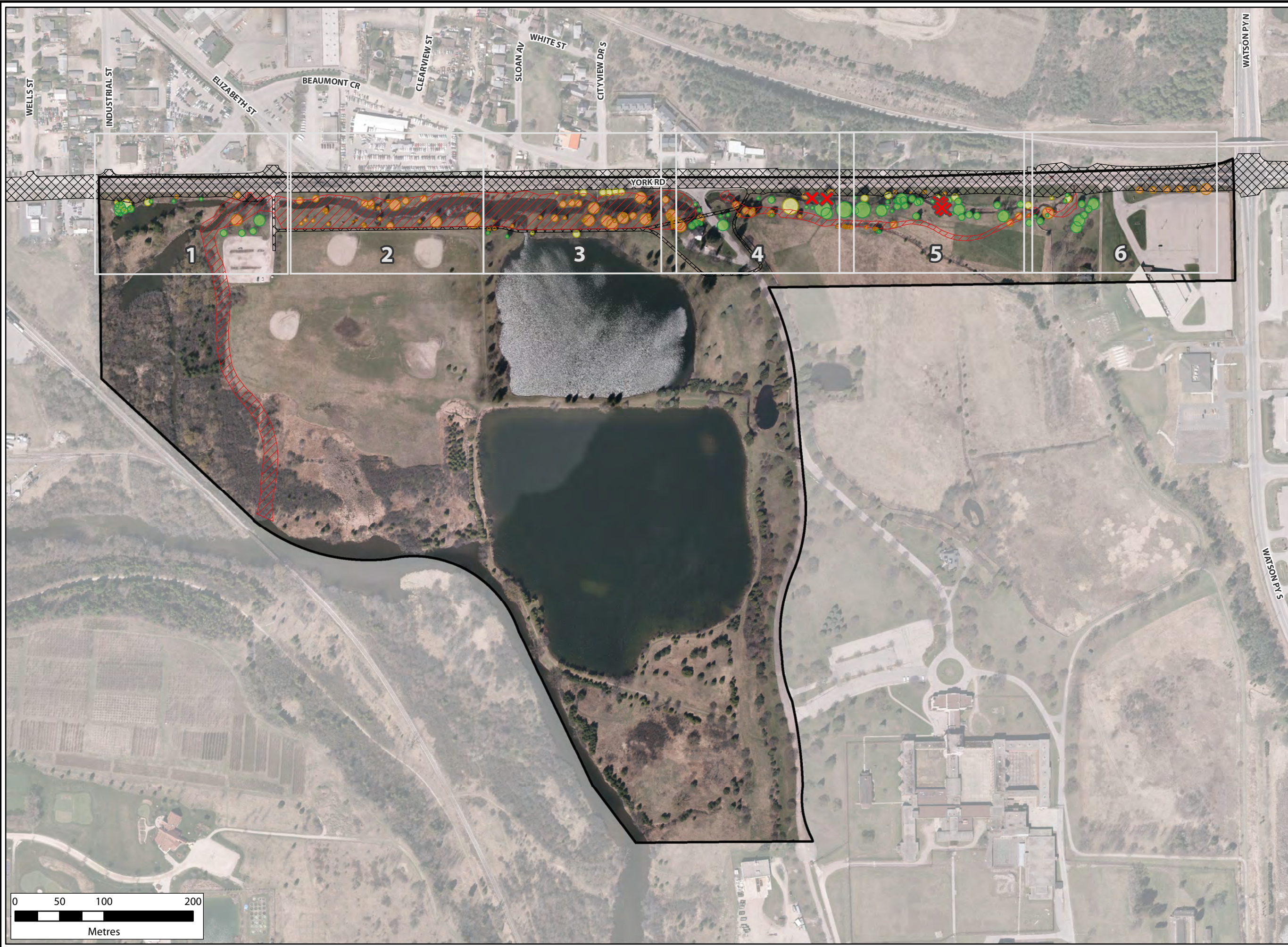
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	CHECKED BY: TF

Figure:  
**3.6.1**

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- Legend**
- D&A Study Area
  - Figure Extent
  - Grading Extent (March 8, 2017)**
  - Creek Re-alignment
  - Road & Path
  - Tree Action \***  
(Crown shown to scale. D&A, 2016)
  - Preserve
  - Injure
  - Remove
  - Dead  
(tree previously tagged & assessed by NRSI but found dead during 2016 D&A arborist assessment)

\* See Appendix H-4: Tree Inventory Data for tree attributes & tree assessment criteria.

2016 Orthoimagery provided by the City of Guelph

York Rd Environmental Design  
**Tree Preservation Plan**



PROJECT: DA15-061-01

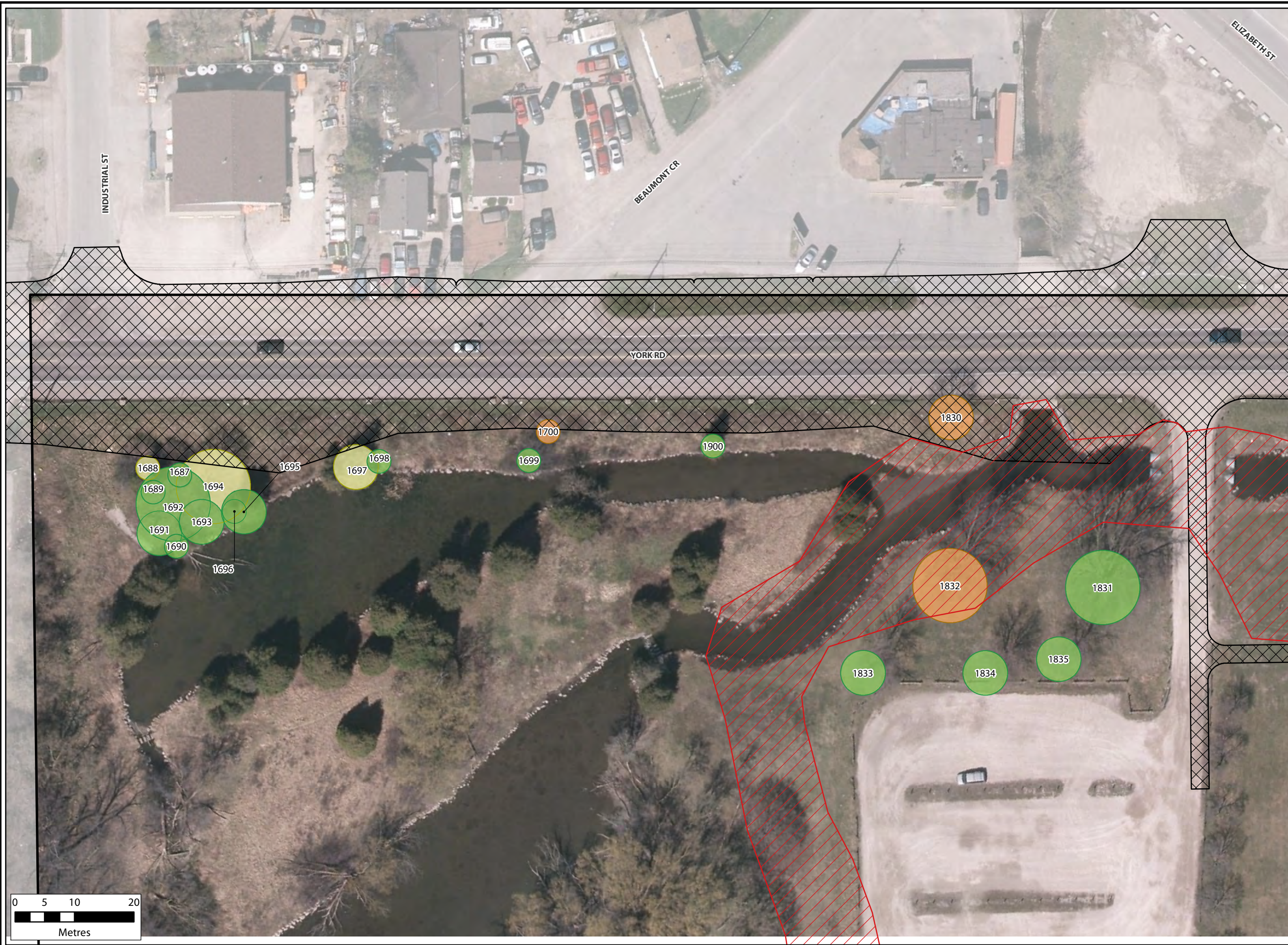
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	CHECKED BY: TF

Figure:  
**3.6.2 - Key Map**

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- Legend**
- D&A Study Area
  - Grading Extent (March 8, 2017)**
  - Creek Re-alignment
  - Road & Path
  - Tree Action \***  
(Crown shown to scale. D&A, 2016)
  - Preserve
  - Injure
  - Remove
  - Dead  
(tree previously tagged & assessed by NRSI but found dead during 2016 D&A arborist assessment)

\* See Appendix H-4: Tree Inventory Data for tree attributes & tree assessment criteria.

Trees 332, 344, 344 & 355 from the previous NRSI arborist assessment were removed thus are not present on these maps nor included in the D&A arborist assessment data.

2016 Orthoimagery provided by the City of Guelph

York Rd Environmental Design  
**Tree Preservation Plan**



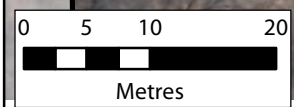
PROJECT: DA15-061-01

CLIENT: City of Guelph

<p>UTM Zone 17 NAD83</p>	DATE: MARCH 2017
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	CHECKED BY: TF

Figure:  
**3.6.2 - 1**

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**Legend**

D&A Study Area

**Grading Extent (March 8, 2017)**

Creek Re-alignment

Road & Path

**Tree Action \***

(Crown shown to scale. D&A, 2016)

Remove

Dead  
(tree previously tagged & assessed by NRSI but found dead during 2016 D&A arborist assessment)

\* See Appendix H-4: Tree Inventory Data for tree attributes & tree assessment criteria.

Trees 332, 344, 344 & 355 from the previous NRSI arborist assessment were removed thus are not present on these maps nor included in the D&A arborist assessment data.

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**Tree Preservation Plan**



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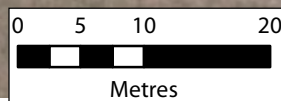
PROJECT: DA15-061-01

CLIENT: City of Guelph

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Figure:  
**3.6.2 - 2**

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**Legend**

D&A Study Area

**Grading Extent (March 8, 2017)**

Creek Re-alignment

Road & Path

**Tree Action \***

(Crown shown to scale. D&A, 2016)

Preserve

Injure

Remove

Dead  
(tree previously tagged & assessed by NRSI but found dead during 2016 D&A arborist assessment)

\* See Appendix H-4: Tree Inventory Data for tree attributes & tree assessment criteria.

Trees 332, 344, 344 & 355 from the previous NRSI arborist assessment were removed thus are not present on these maps nor included in the D&A arborist assessment data.

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DATE: MARCH 2017

SCALE: 1:600

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Figure:

**3.6.2 - 3**

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**Legend**

D&A Study Area

**Grading Extent (March 8, 2017)**

Creek Re-alignment

Road & Path

**Tree Action \***

(Crown shown to scale. D&A, 2016)

Preserve

Injure

Remove

Dead  
(tree previously tagged & assessed by NRSI but found dead during 2016 D&A arborist assessment)

\* See Appendix H-4: Tree Inventory Data for tree attributes & tree assessment criteria.

Trees 332, 344, 344 & 355 from the previous NRSI arborist assessment were removed thus are not present on these maps nor included in the D&A arborist assessment data.

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York Rd Environmental Design  
**Tree Preservation Plan**



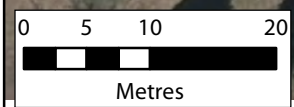
PROJECT: DA15-061-01

CLIENT: City of Guelph

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Figure:  
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The information displayed on this map has been compiled from various sources. While every effort has been made to accurately depict the information, this map should not be relied on as being a precise indicator of locations, features, or roads, nor as a guide to navigation. MNR data provided by Queen's Printer of Ontario. Use of the data in any derivative product does not constitute an endorsement by the MNR or the Ontario Government of such products.







**Legend**

D&A Study Area

**Grading Extent (March 8, 2017)**

Creek Re-alignment

Road & Path

**Tree Action \***

(Crown shown to scale. D&A, 2016)

Preserve

Injure

Remove

Dead  
(tree previously tagged & assessed by NRSI but found dead during 2016 D&A arborist assessment)

\* See Appendix H-4: Tree Inventory Data for tree attributes & tree assessment criteria.

Trees 332, 344, 344 & 355 from the previous NRSI arborist assessment were removed thus are not present on these maps nor included in the D&A arborist assessment data.

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PROJECT: DA15-061-01

CLIENT: City of Guelph

DATE: MARCH 2017

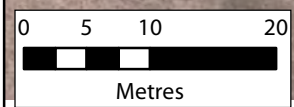
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CHECKED BY: TF

Figure:  
**3.6.2 - 5**

The information displayed on this map has been compiled from various sources. While every effort has been made to accurately depict the information, this map should not be relied on as being a precise indicator of locations, features, or roads, nor as a guide to navigation. MNR data provided by Queen's Printer of Ontario. Use of the data in any derivative product does not constitute an endorsement by the MNR or the Ontario Government of such products.







**Legend**

D&A Study Area

**Grading Extent (March 8, 2017)**

Creek Re-alignment

Road & Path

**Tree Action \***

(Crown shown to scale. D&A, 2016)

Preserve

Injure

Remove

Dead  
(tree previously tagged & assessed by NRSI but found dead during 2016 D&A arborist assessment)

\* See Appendix H-4: Tree Inventory Data for tree attributes & tree assessment criteria.

Trees 332, 344, 344 & 355 from the previous NRSI arborist assessment were removed thus are not present on these maps nor included in the D&A arborist assessment data.

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York Rd Environmental Design  
**Tree Preservation Plan**



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PROJECT: DA15-061-01

CLIENT: City of Guelph

DATE: MARCH 2017

SCALE: 1:600

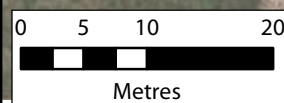
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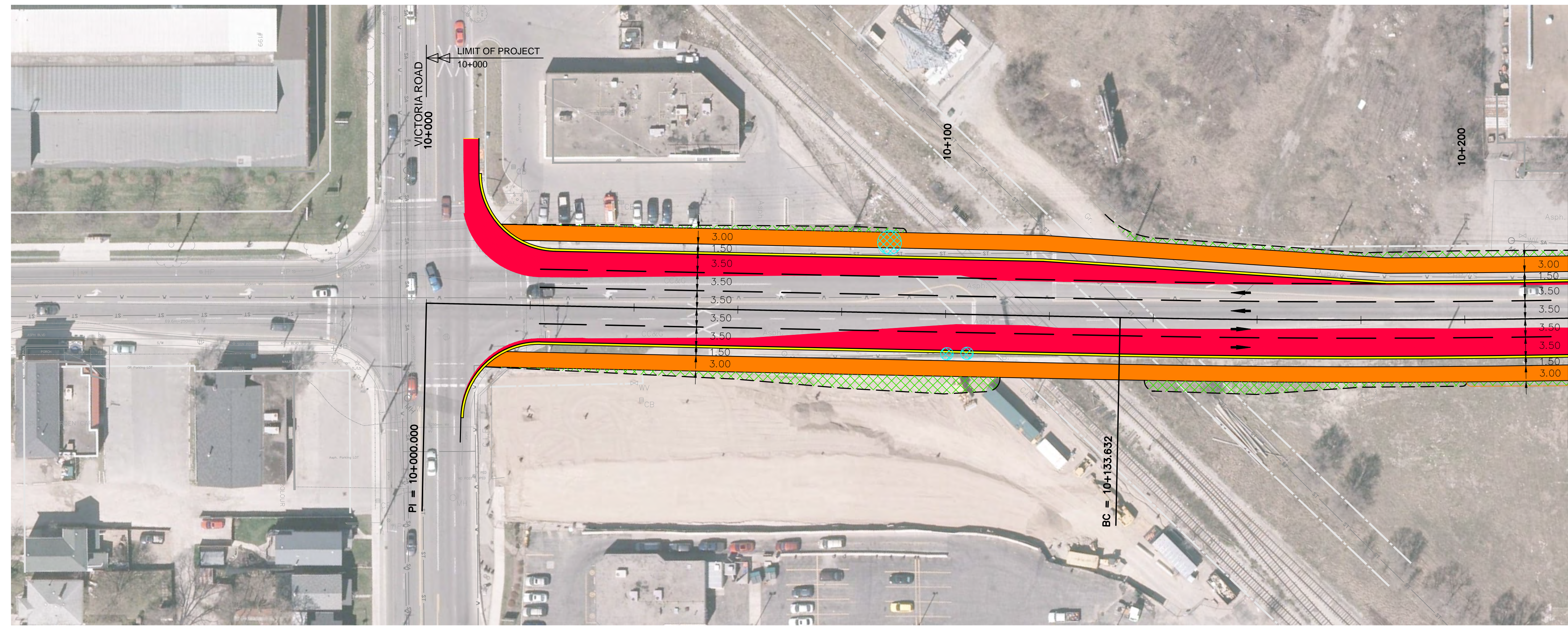
Figure:

**3.6.2 - 6**

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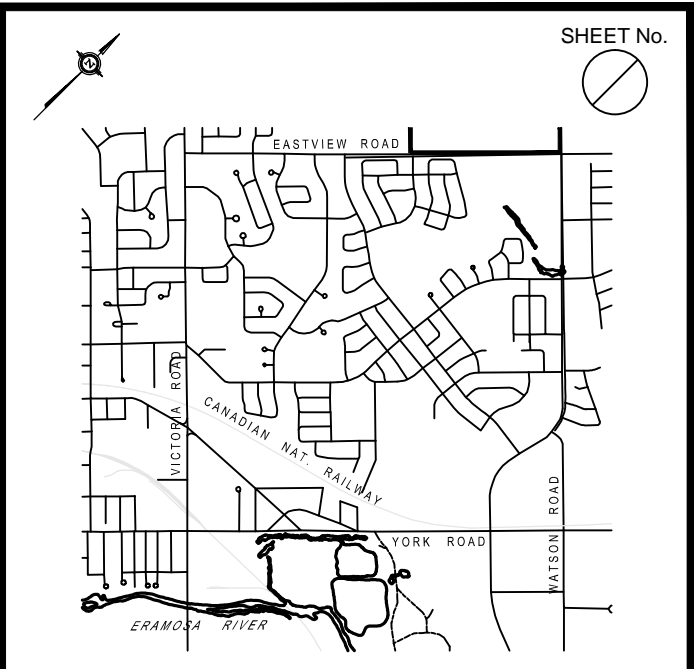






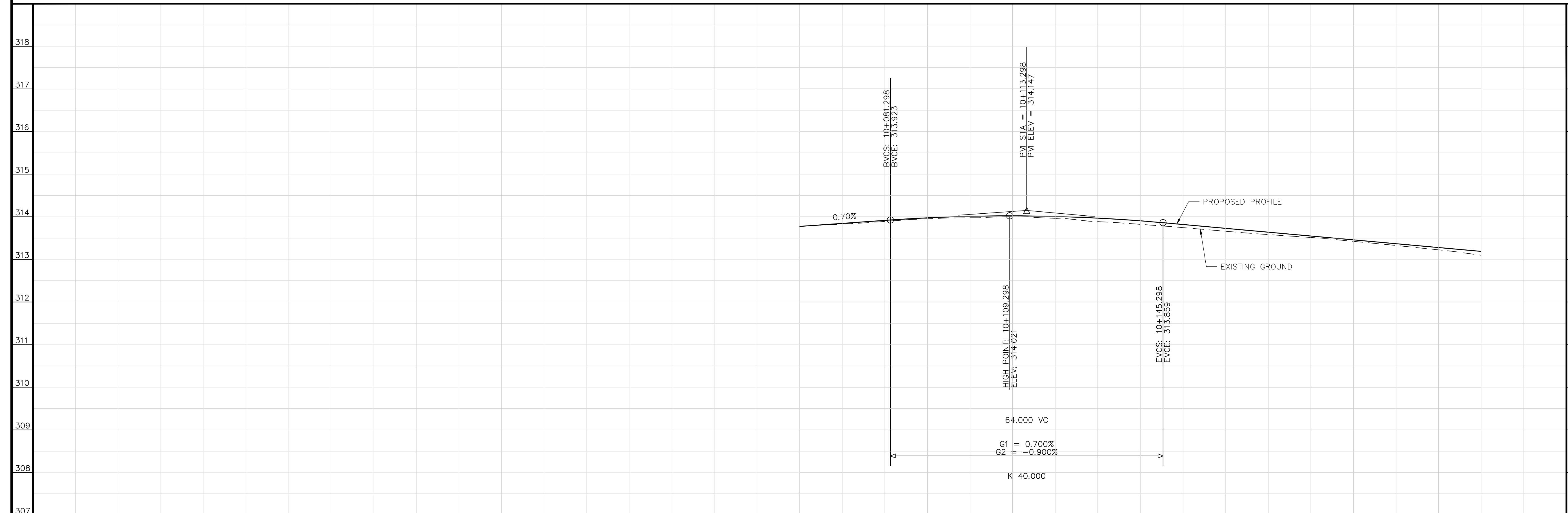
YORK ROAD

MATCHLINE - STA. 10+220



KEY PLAN Scale: NOT TO SCALE

- LEGEND**
- EXISTING RIGHT OF WAY
  - PROPOSED RIGHT OF WAY WIDENING
  - PROPOSED CURB
  - XXXXXX PROPOSED GRADE SLOPE
  - PROPOSED PAVEMENT WIDENING
  - PROPOSED MULTI-USE PATH
  - PROPOSED TREE REMOVAL
  - GRADING LINE 3:1 SLOPE
  - GRADING LINE 2:1 SLOPE



THE POSITION OF POLES, LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

No.	DATE	DESCRIPTION	BY:	CHKD.
ISSUES/REVISIONS				

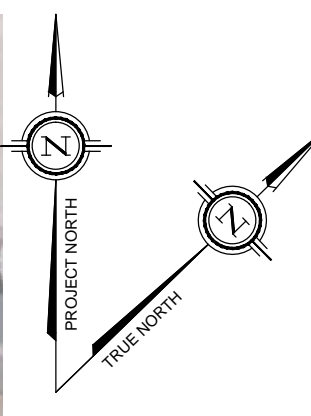
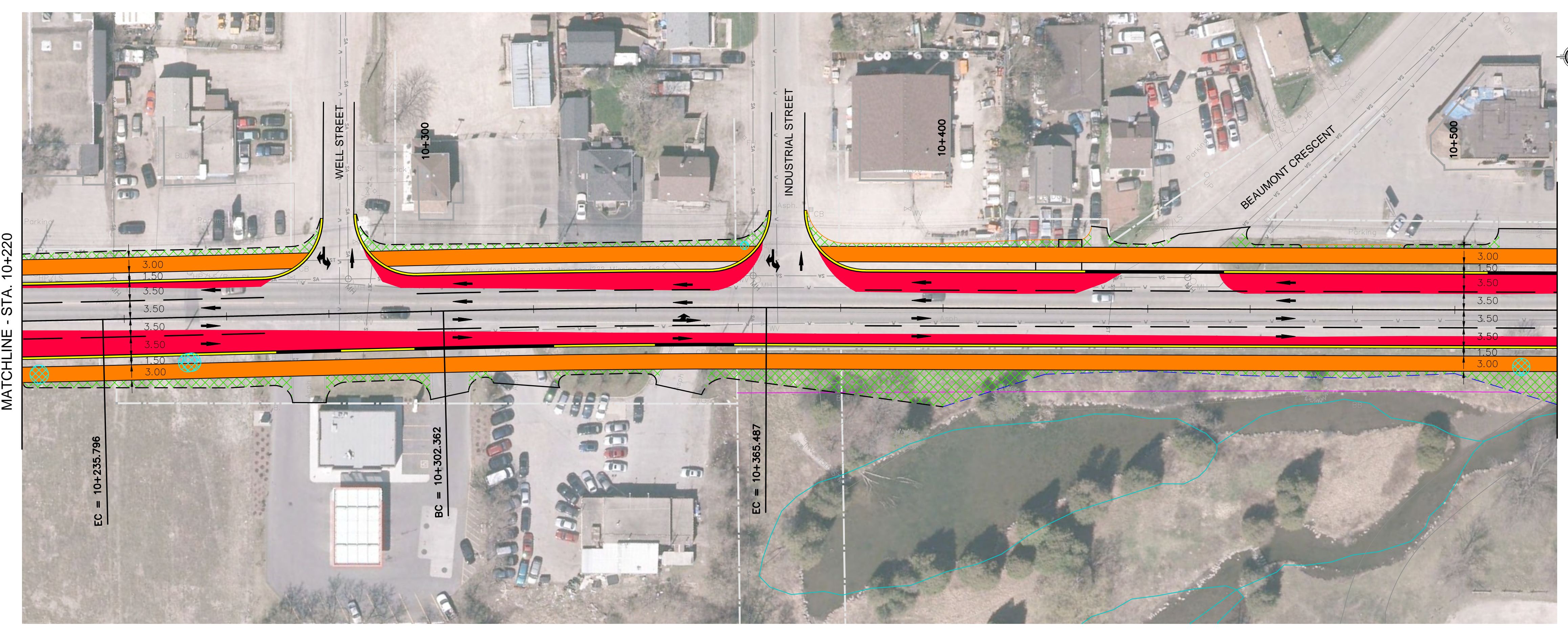
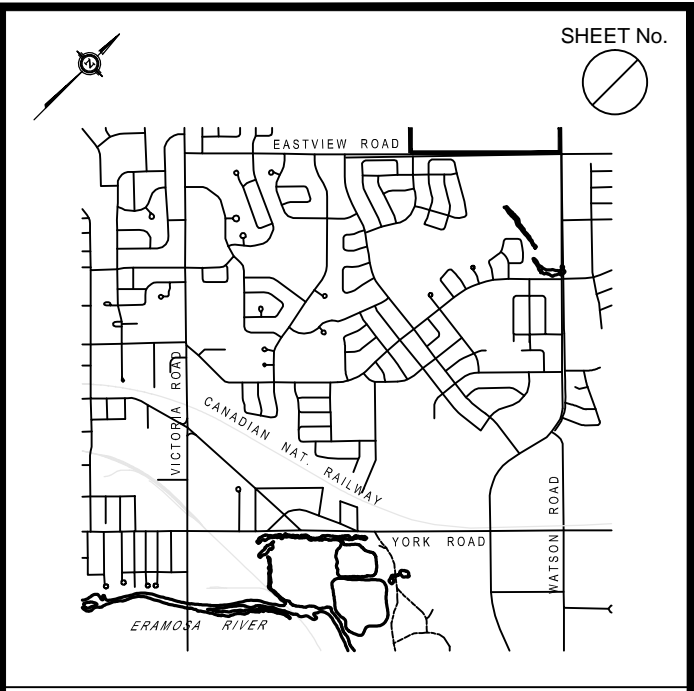


YORK ROAD ENVIRONMENTAL DESIGN STUDY

CHAINAGE	10+000	10+020	10+040	10+060	10+080	10+100	10+120	10+140	10+160	10+180	10+200	10+220
EXISTING CENTRELINE												
PROPOSED GRADE												
STORM SEWER												
SANIT. SEWER												

EXISTING CENTRELINE	SCALES: HOR: 1:500 VER: 1:50
PROPOSED GRADE	DATE DRAWN: 2016-09-21
STORM SEWER	DRAWN BY: B.S. CHECKED BY: M.E.K.
SANITARY SEWER	CONSULTANT DRAWING No. FIGURE 4.1.2
CHAINAGE	CITY CONTRACT No.
	CITY REFERENCE No. REV.



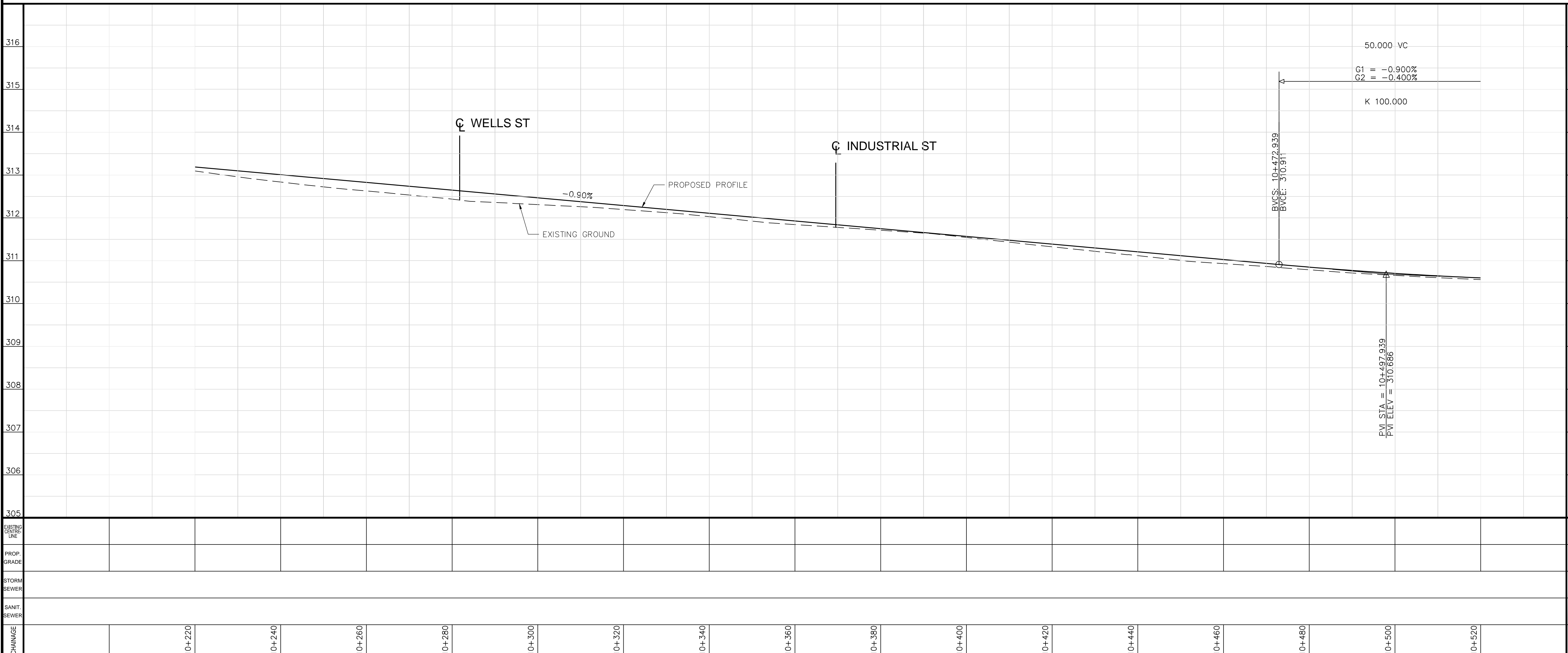


MATCHLINE - STA. 10+220

MATCHLINE - STA. 10+520

YORK ROAD

- LEGEND**
- EXISTING RIGHT OF WAY
  - PROPOSED RIGHT OF WAY WIDENING
  - PROPOSED CURB
  - XXXXXX PROPOSED GRADE SLOPE
  - PROPOSED PAVEMENT WIDENING
  - PROPOSED MULTI-USE PATH
  - PROPOSED TREE REMOVAL
  - GRADING LINE 3:1 SLOPE
  - GRADING LINE 2:1 SLOPE



THE POSITION OF POLES, LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

No.	DATE	DESCRIPTION	BY:	CHKD.
ISSUES/REVISIONS				



ENGINEERING SERVICES

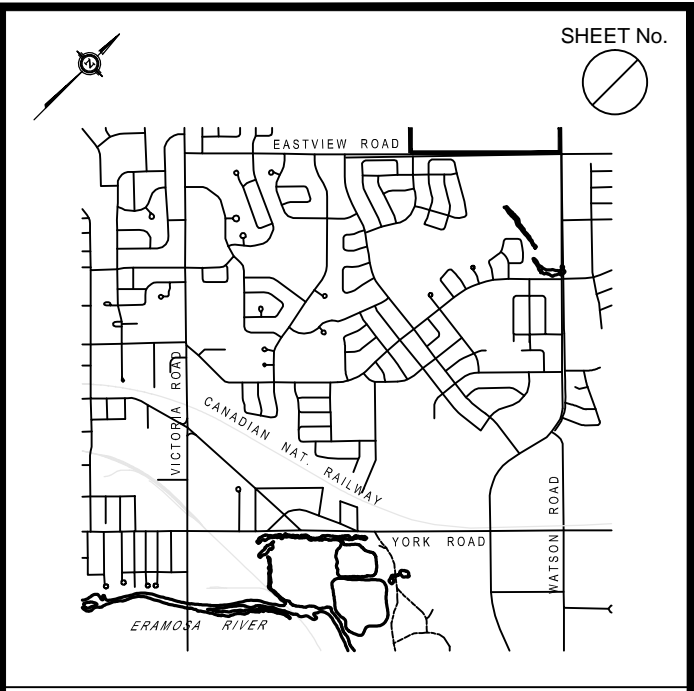


YORK ROAD ENVIRONMENTAL DESIGN STUDY

CHAINAGE	10+220	10+240	10+260	10+280	10+300	10+320	10+340	10+360	10+380	10+400	10+420	10+440	10+460	10+480	10+500	10+520
EXISTING CENTRELINE																
PROPOSED GRADE																
STORM SEWER																
SANITARY SEWER																

EXISTING CENTRELINE	SCALES:	HOR: 1:500	VER: 1:50
PROPOSED GRADE	DATE DRAWN:	2016-09-21	
STORM SEWER	DRAWN BY:	B.S.	CHECKED BY: M.E.K.
SANITARY SEWER	CONSULTANT DRAWING No. FIGURE 4.1.3		
CHAINAGE	CITY CONTRACT No.		
	CITY REFERENCE No.	REV.	





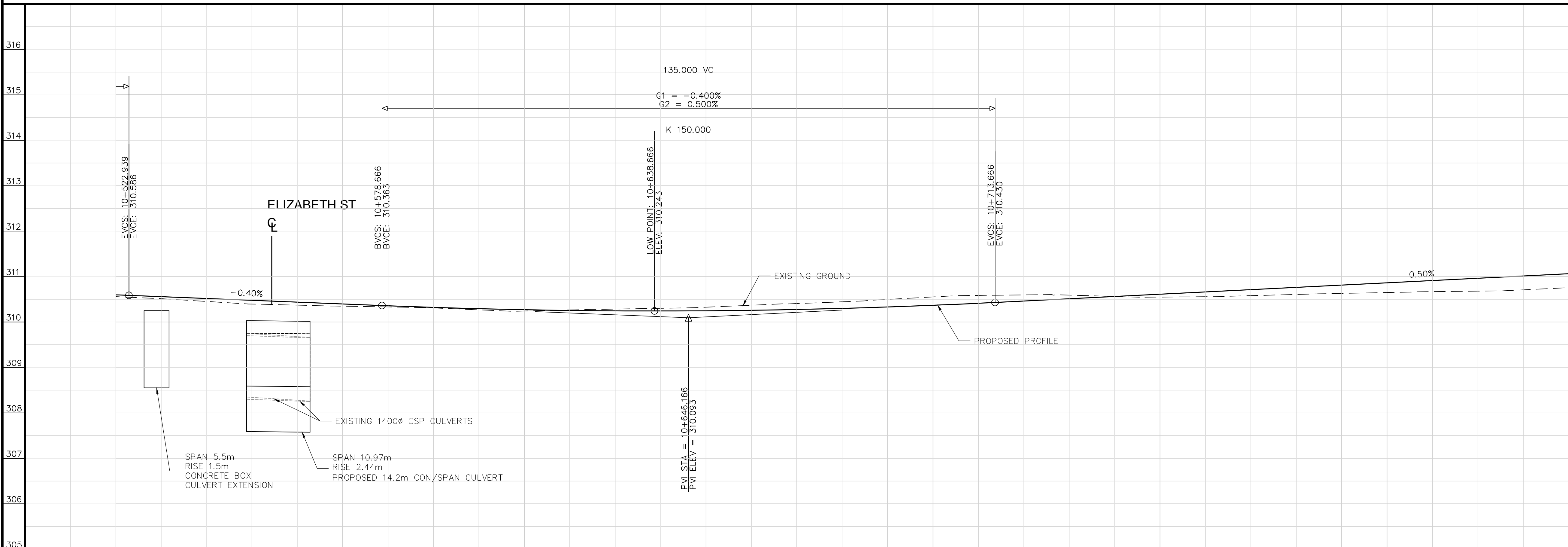
KEY PLAN Scale: NOT TO SCALE

LEGEND

- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY WIDENING
- PROPOSED CURB
- XXXXXX PROPOSED GRADE SLOPE
- PROPOSED PAVEMENT WIDENING
- PROPOSED MULTI-USE PATH
- PROPOSED TREE REMOVAL
- GRADING LINE 3:1 SLOPE
- GRADING LINE 2:1 SLOPE



YORK ROAD



THE POSITION OF POLES, LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

No.	DATE	DESCRIPTION	BY:	CHKD.
ISSUES/REVISIONS				

**CITY OF Guelph**  
ENGINEERING SERVICES

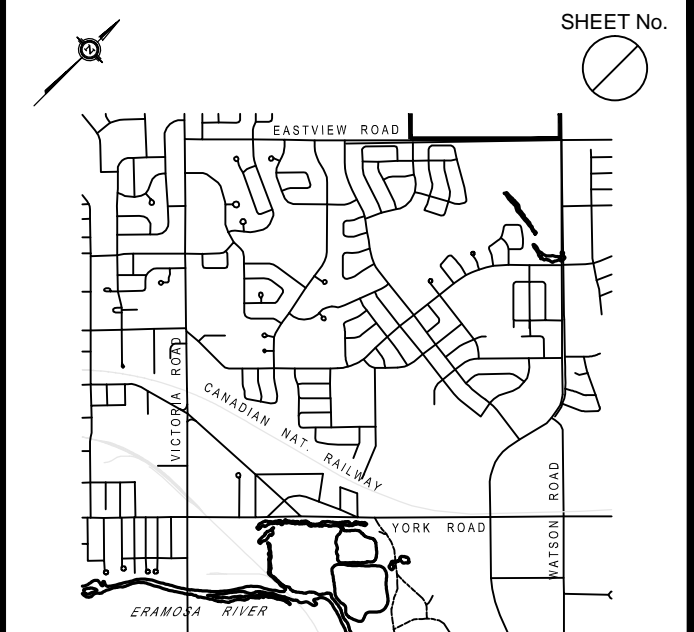
amec foster wheeler

**YORK ROAD ENVIRONMENTAL DESIGN STUDY**

CHAINAGE	10+520	10+540	10+560	10+580	10+600	10+620	10+640	10+660	10+680	10+700	10+720	10+740	10+760	10+780	10+800	10+820	10+840
EXISTING CENTRELINE																	
PROPOSED GRADE																	
STORM SEWER																	
SANIT SEWER																	

SCALE:	HOR: 1:500	VER: 1:50
DATE DRAWN:	2016-09-21	
DRAWN BY:	B.S.	CHECKED BY: M.E.K.
CONSULTANT DRAWING No.	FIGURE 4.1.4	
CITY CONTRACT No.		
CITY REFERENCE No.		REV.

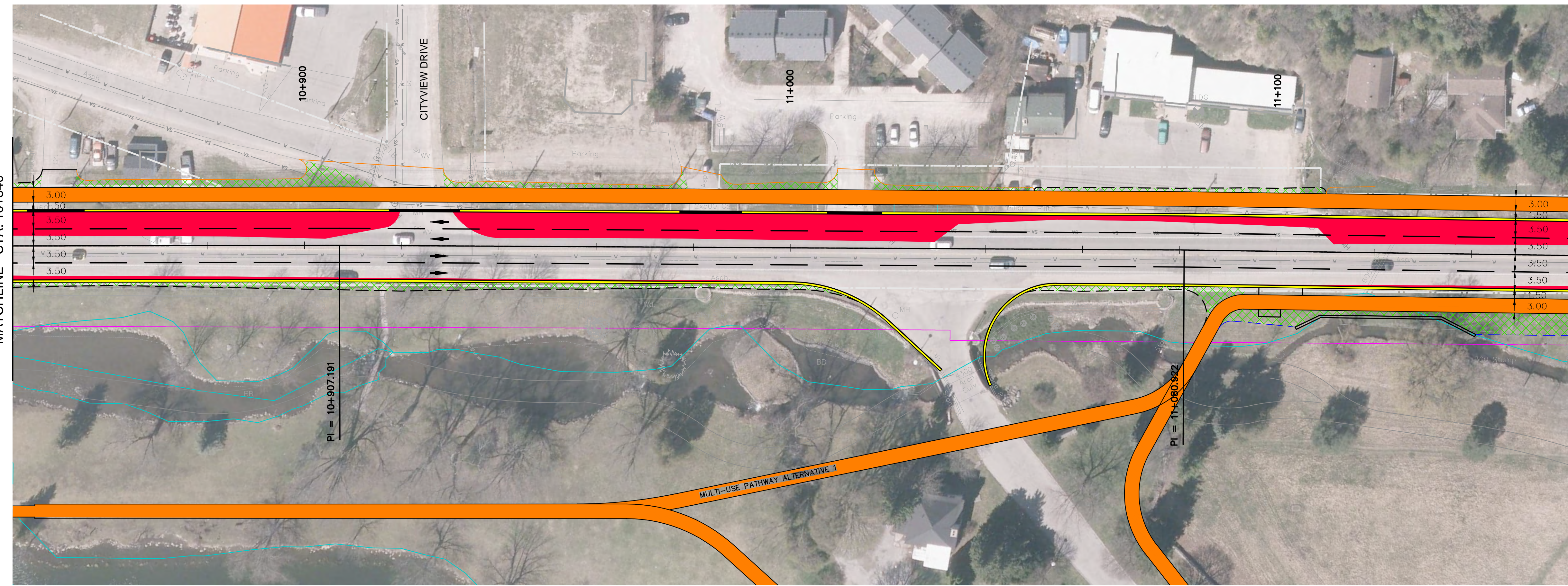




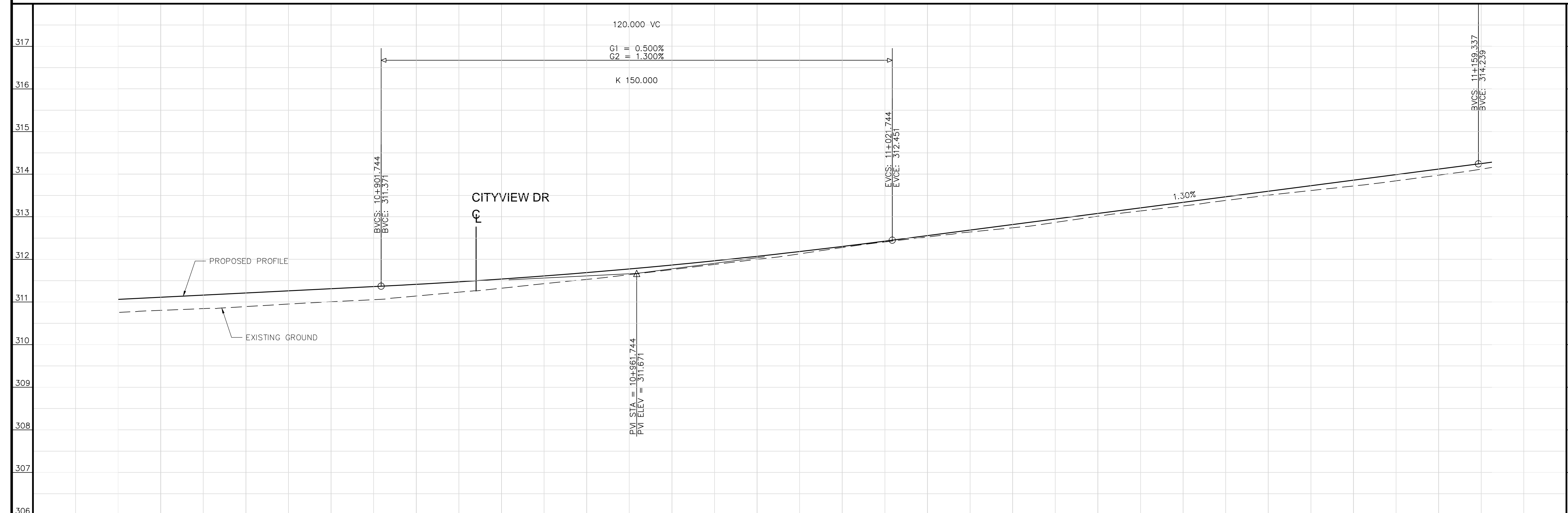
KEY PLAN Scale: NOT TO SCALE

LEGEND

- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY WIDENING
- PROPOSED CURB
- XXXXXX PROPOSED GRADE SLOPE
- PROPOSED PAVEMENT WIDENING
- PROPOSED MULTI-USE PATH
- PROPOSED TREE REMOVAL
- GRADING LINE 3:1 SLOPE
- GRADING LINE 2:1 SLOPE



YORK ROAD



THE POSITION OF POLES, LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

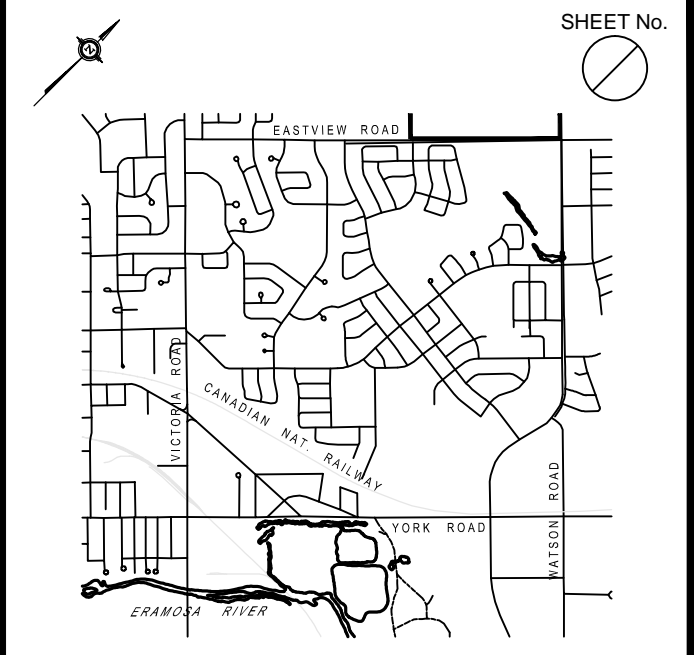
No.	DATE	DESCRIPTION	BY:	CHKD.
ISSUES/REVISIONS				



YORK ROAD ENVIRONMENTAL DESIGN STUDY

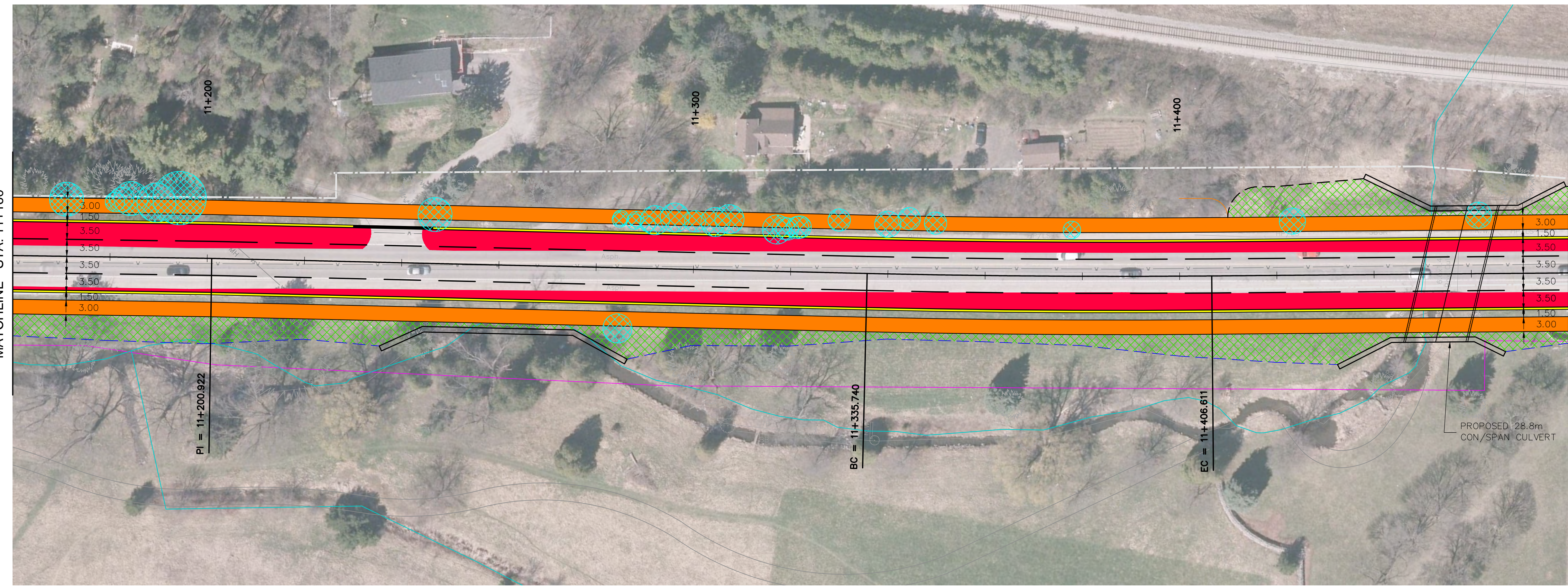
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PROPOSED GRADE	DATE DRAWN: 2016-09-21
STORM SEWER	DRAWN BY: B.S. CHECKED BY: M.E.K.
SANITARY SEWER	CONSULTANT DRAWING No. <b>FIGURE 4.1.5</b>
CHAINAGE	CITY CONTRACT No.
	CITY REFERENCE No. REV.



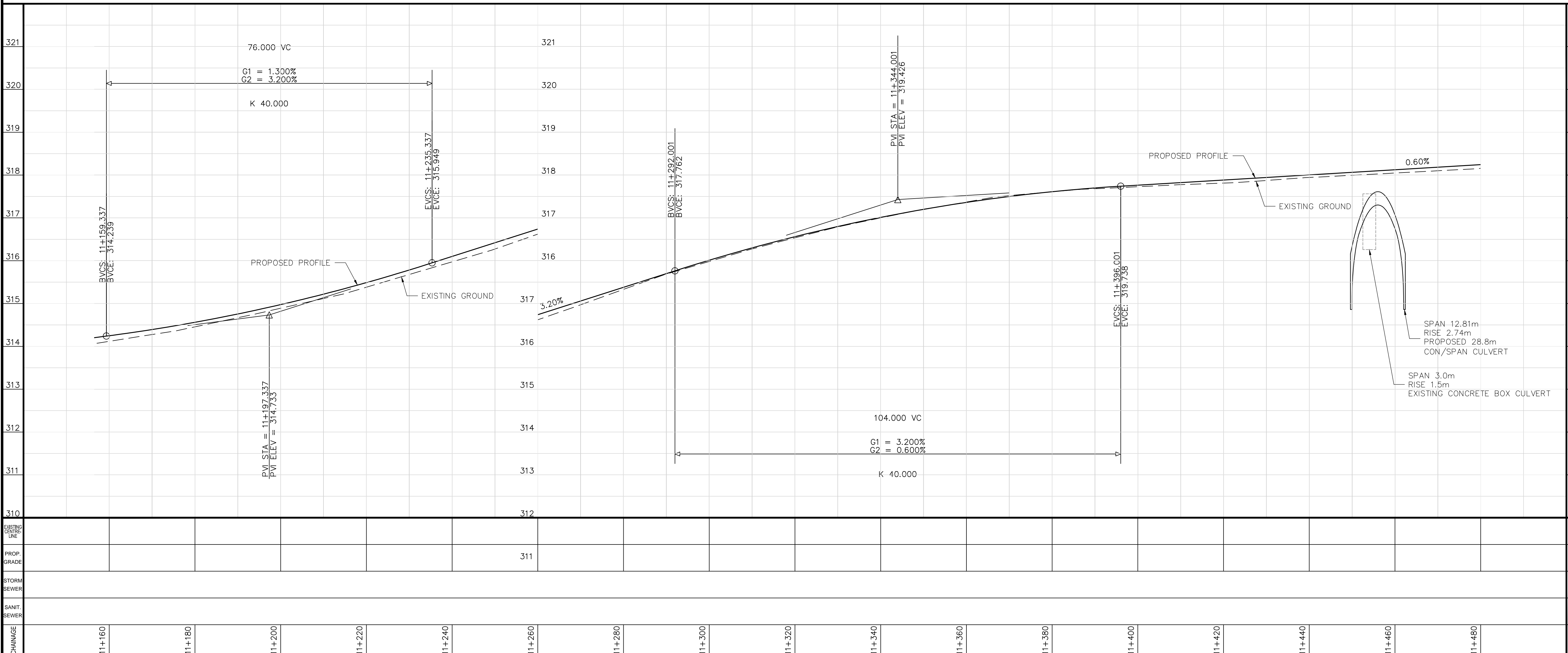


KEY PLAN Scale: NOT TO SCALE

- LEGEND**
- EXISTING RIGHT OF WAY
  - PROPOSED RIGHT OF WAY WIDENING
  - PROPOSED CURB
  - XXXXXX PROPOSED GRADE SLOPE
  - PROPOSED PAVEMENT WIDENING
  - PROPOSED MULTI-USE PATH
  - ⊗ PROPOSED TREE REMOVAL
  - GRADING LINE 3:1 SLOPE
  - GRADING LINE 2:1 SLOPE



YORK ROAD



THE POSITION OF POLES, LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

No.	DATE	DESCRIPTION	BY:	CHKD.

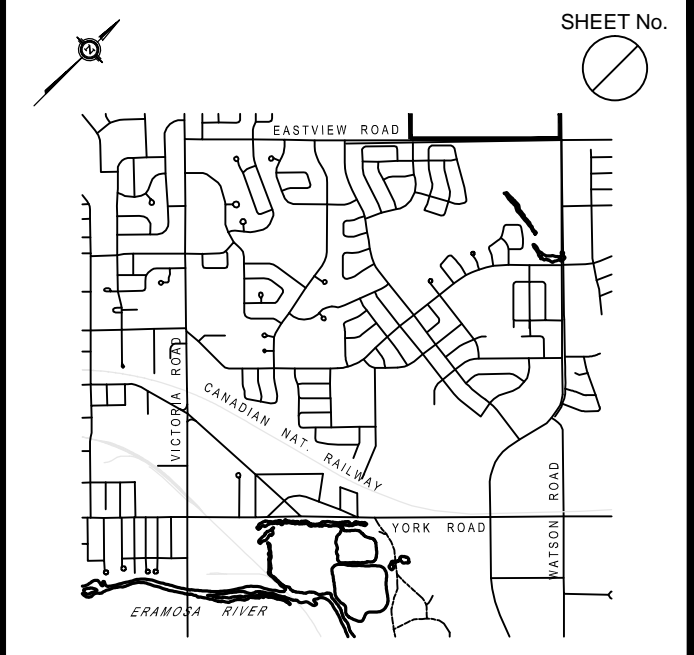
**CITY OF Guelph**  
ENGINEERING SERVICES

amec foster wheeler

**YORK ROAD ENVIRONMENTAL DESIGN STUDY**

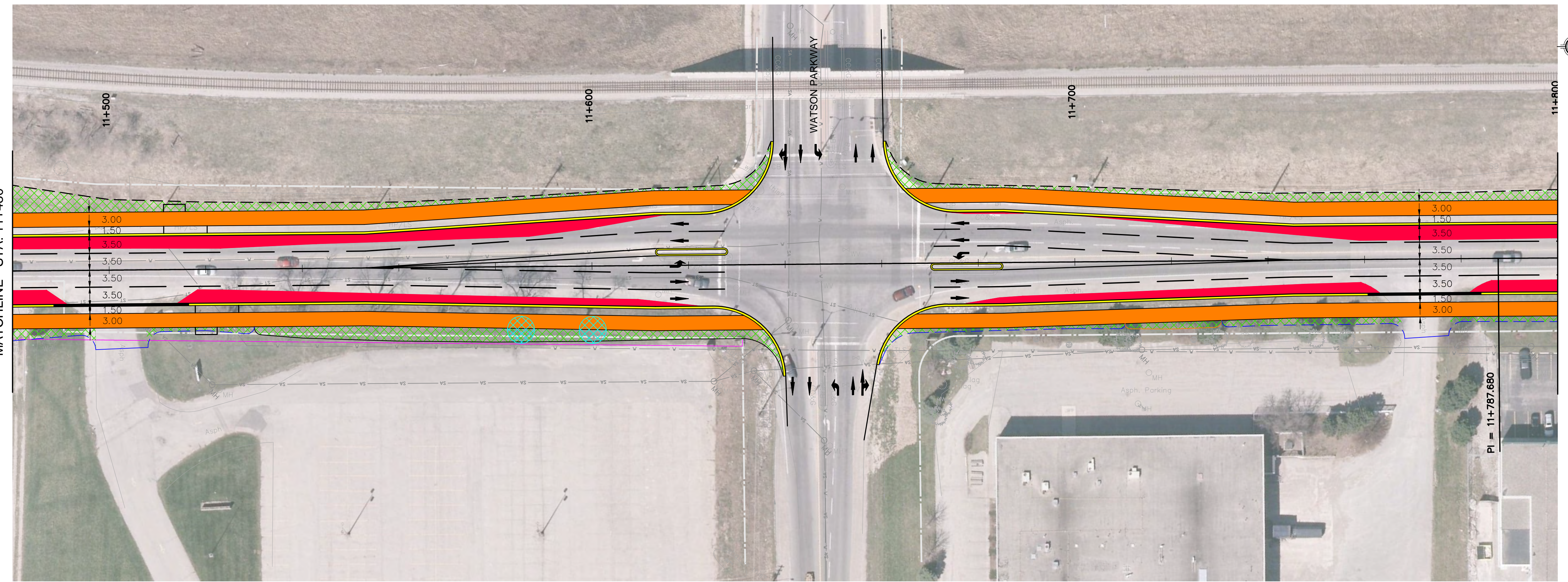
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PROPOSED GRADE	DATE DRAWN: 2016-09-21
STORM SEWER	DRAWN BY: B.S. CHECKED BY: M.E.K.
SANITARY SEWER	CONSULTANT DRAWING No. <b>FIGURE 4.1.6</b>
CHAINAGE	CITY CONTRACT No.
	CITY REFERENCE No. REV.



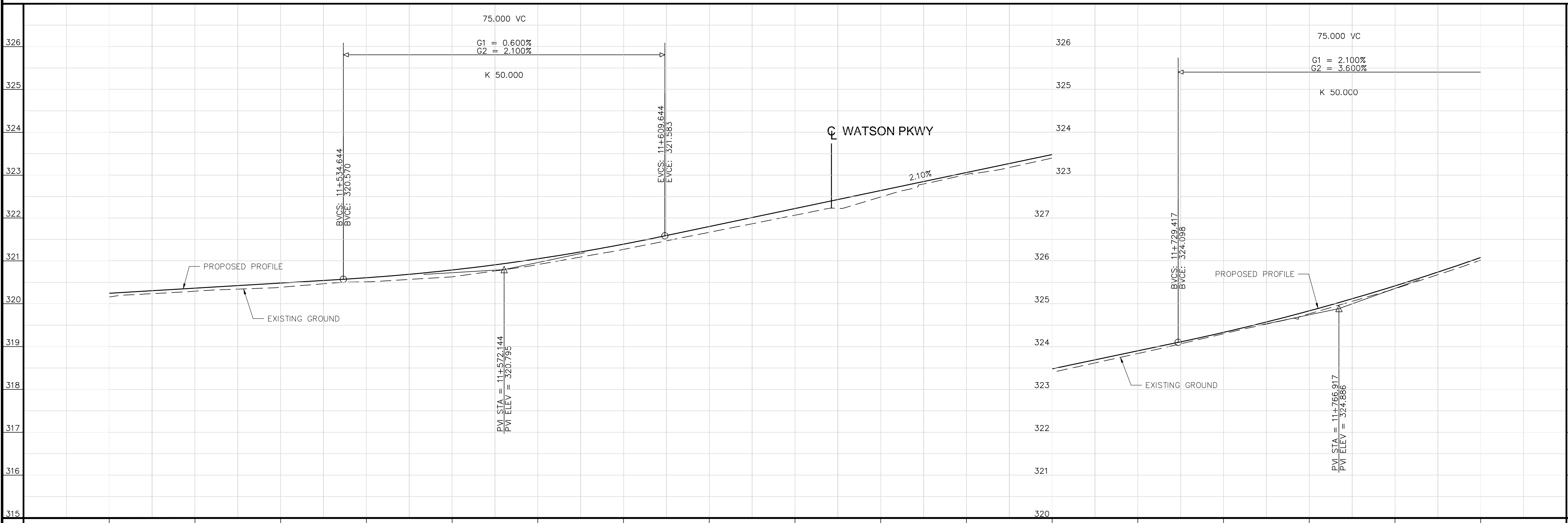


KEY PLAN Scale: NOT TO SCALE

- LEGEND**
- EXISTING RIGHT OF WAY
  - PROPOSED RIGHT OF WAY WIDENING
  - PROPOSED CURB
  - XXXXXX PROPOSED GRADE SLOPE
  - PROPOSED PAVEMENT WIDENING
  - PROPOSED MULTI-USE PATH
  - PROPOSED TREE REMOVAL
  - GRADING LINE 3:1 SLOPE
  - GRADING LINE 2:1 SLOPE



YORK ROAD



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No.	DATE	DESCRIPTION	BY:	CHKD.
328		ISSUES/REVISIONS		

**CITY OF Guelph**  
ENGINEERING SERVICES

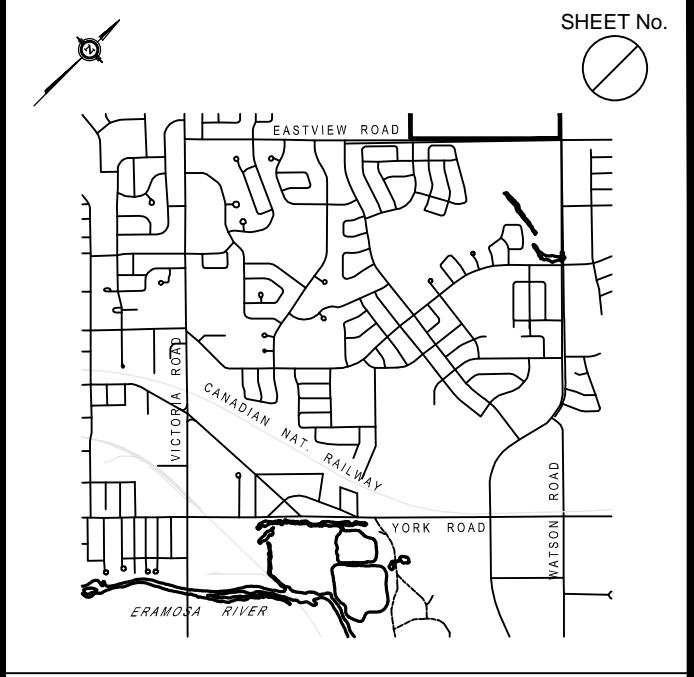
amec foster wheeler

**YORK ROAD ENVIRONMENTAL DESIGN STUDY**

CHAINAGE	11+480	11+500	11+520	11+540	11+560	11+580	11+600	11+620	11+640	11+660	11+680	11+700	11+720	11+740	11+760	11+780	11+800
EXISTING CENTRELINE																	
PROPOSED GRADE																	
STORM SEWER																	
SANIT SEWER																	

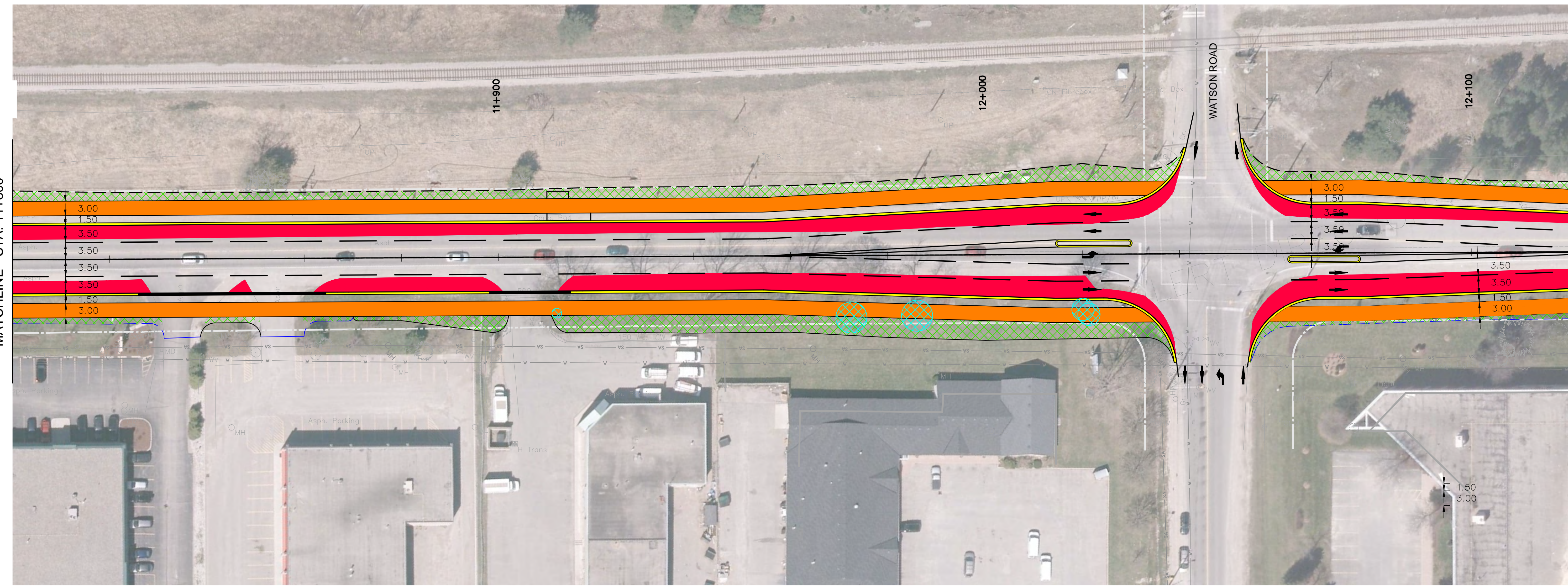
EXISTING CENTRELINE	SCALES: HOR: 1:500 VER: 1:50
PROPOSED GRADE	DATE DRAWN: 2016-09-21
STORM SEWER	DRAWN BY: B.S. CHECKED BY: M.E.K.
SANITARY SEWER	CONSULTANT DRAWING No. <b>FIGURE 4.1.7</b>
CHAINAGE	CITY CONTRACT No.
	CITY REFERENCE No. REV.



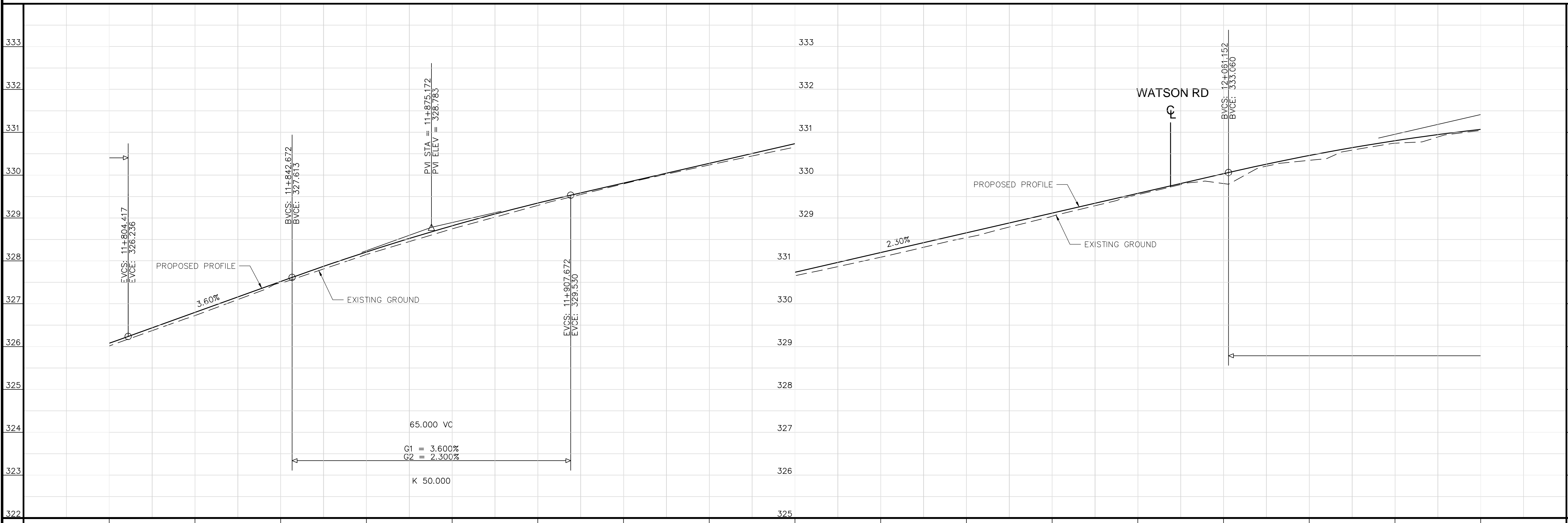


KEY PLAN Scale: NOT TO SCALE

- LEGEND**
- EXISTING RIGHT OF WAY
  - PROPOSED RIGHT OF WAY WIDENING
  - PROPOSED CURB
  - XXXXXX PROPOSED GRADE SLOPE
  - PROPOSED PAVEMENT WIDENING
  - PROPOSED MULTI-USE PATH
  - PROPOSED TREE REMOVAL
  - GRADING LINE 3:1 SLOPE
  - GRADING LINE 2:1 SLOPE



YORK ROAD



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No.	DATE	DESCRIPTION	BY:	CHKD.
333				

**CITY OF Guelph**  
ENGINEERING SERVICES

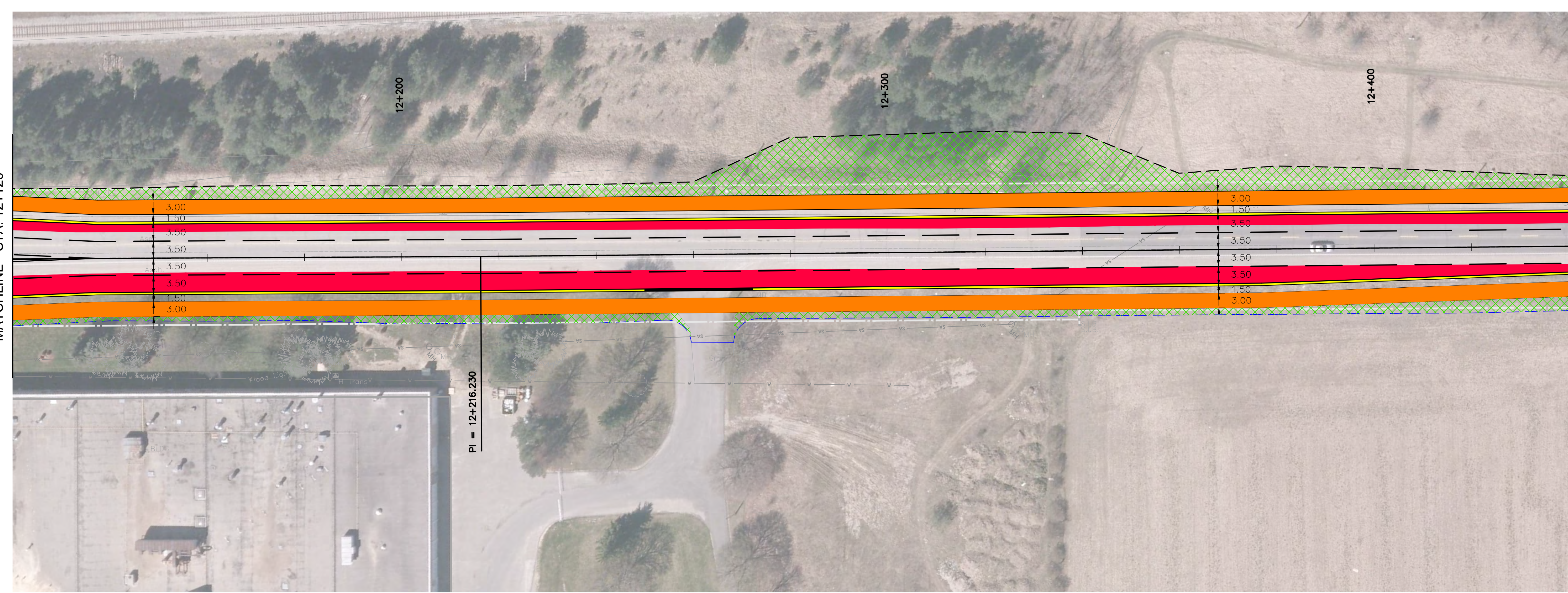
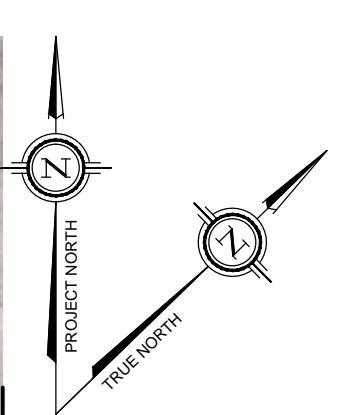
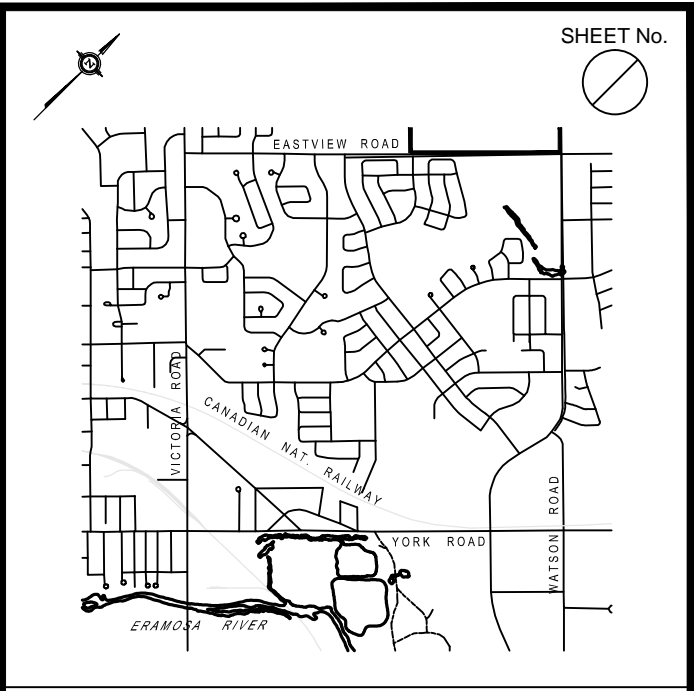
amec foster wheeler

**YORK ROAD ENVIRONMENTAL DESIGN STUDY**

CHAINAGE	11+800	11+820	11+840	11+860	11+880	11+900	11+920	11+940	11+960	11+980	12+000	12+020	12+040	12+060	12+080	12+100	12+120
EXISTING CENTRELINE																	
PROPOSED GRADE																	
STORM SEWER																	
SANIT SEWER																	

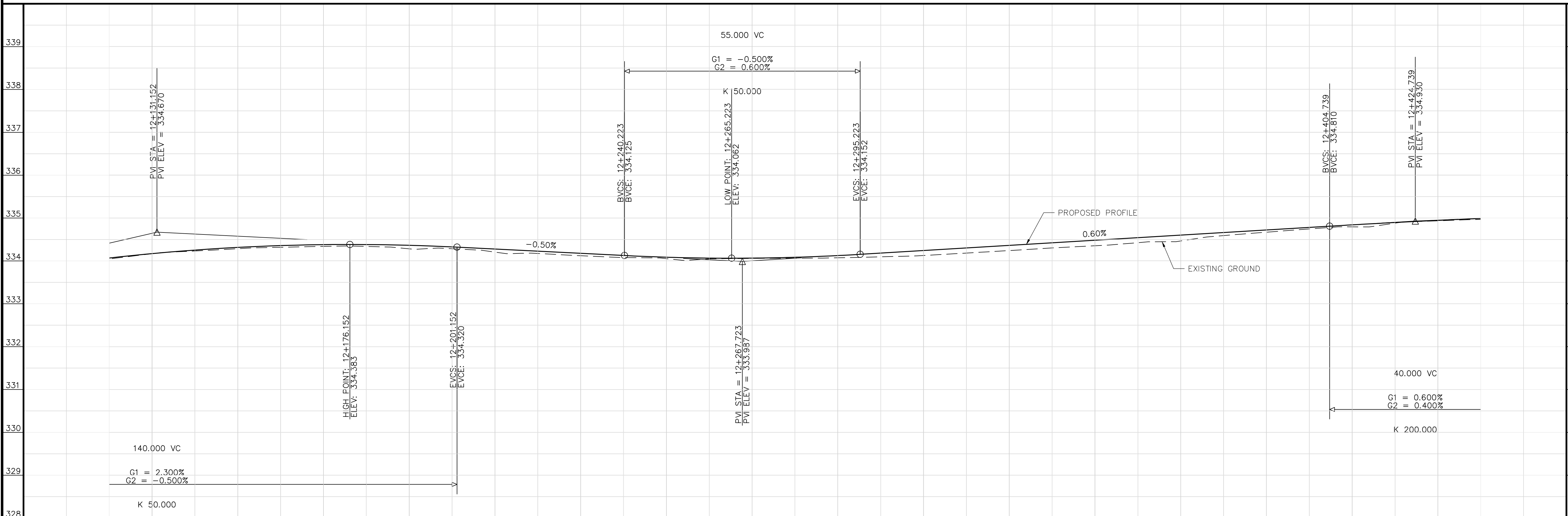
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PROPOSED GRADE	DATE DRAWN: 2016-09-21
STORM SEWER	DRAWN BY: B.S. CHECKED BY: M.E.K.
SANITARY SEWER	CONSULTANT DRAWING No. <b>FIGURE 4.1.8</b>
CHAINAGE	CITY CONTRACT No.
	CITY REFERENCE No. REV.





YORK ROAD

- LEGEND**
- EXISTING RIGHT OF WAY
  - PROPOSED RIGHT OF WAY WIDENING
  - PROPOSED CURB
  - XXXXXX PROPOSED GRADE SLOPE
  - PROPOSED PAVEMENT WIDENING
  - PROPOSED MULTI-USE PATH
  - PROPOSED TREE REMOVAL
  - GRADING LINE 3:1 SLOPE
  - GRADING LINE 2:1 SLOPE



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No.	DATE	DESCRIPTION	BY:	CHKD.

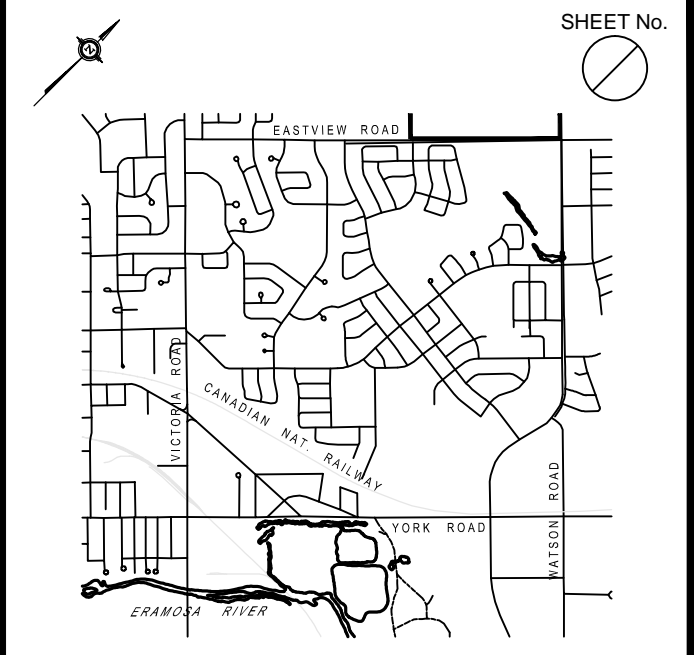
**CITY OF Guelph**  
ENGINEERING SERVICES

amec foster wheeler

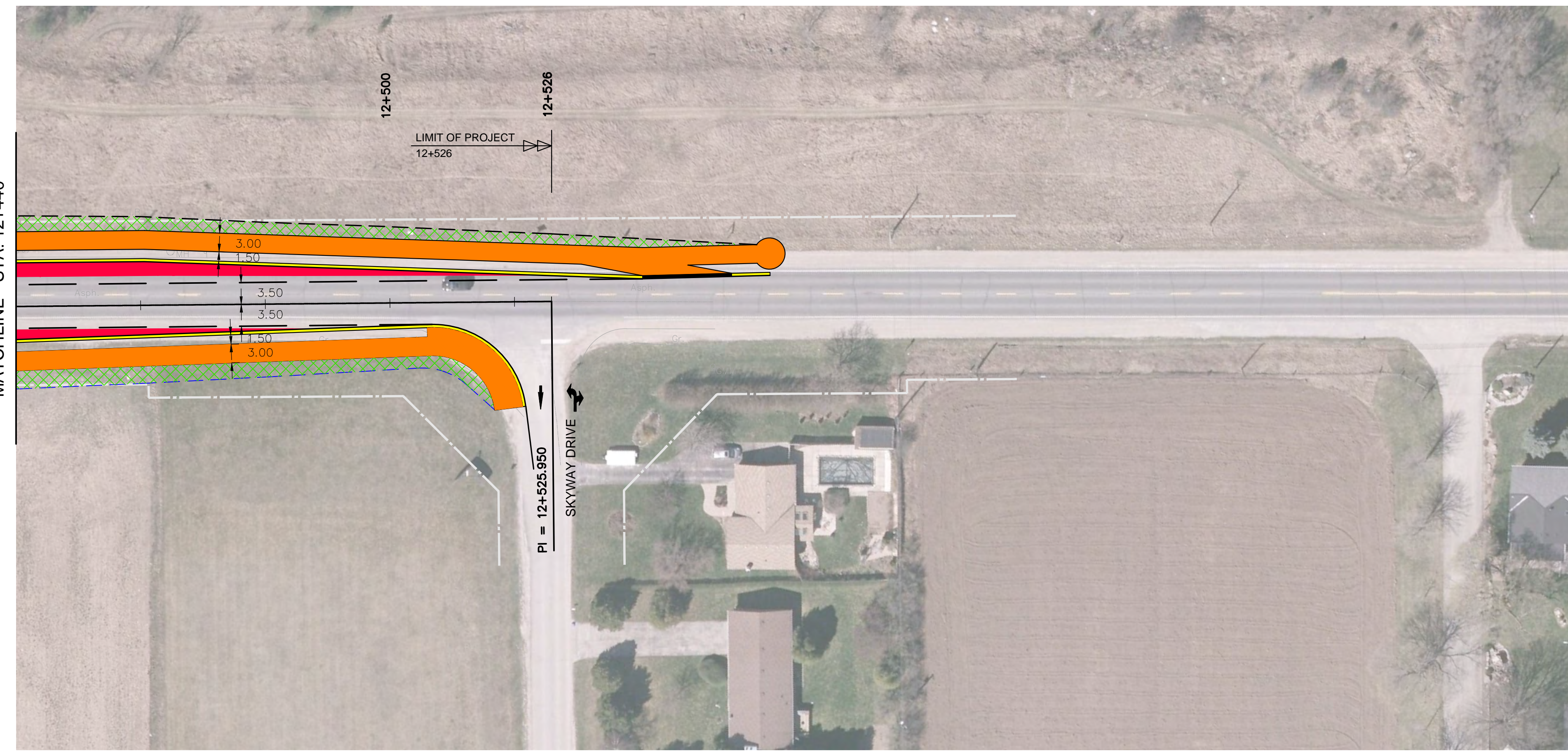
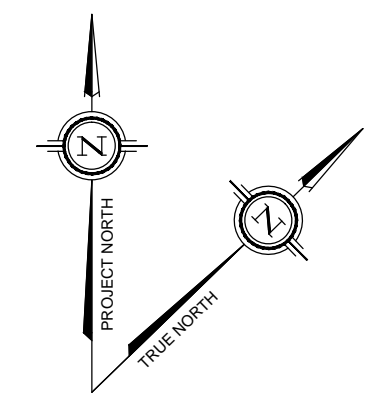
**YORK ROAD ENVIRONMENTAL DESIGN STUDY**

EXISTING CENTRELINE	SCALE: HOR: 1:500 VER: 1:50
PROPOSED GRADE	DATE DRAWN: 2016-09-21
STORM SEWER	DRAWN BY: B.S. CHECKED BY: M.E.K.
SANITARY SEWER	CONSULTANT DRAWING No. <b>FIGURE 4.1.9</b>
CHAINAGE	CITY CONTRACT No.
	CITY REFERENCE No. REV.



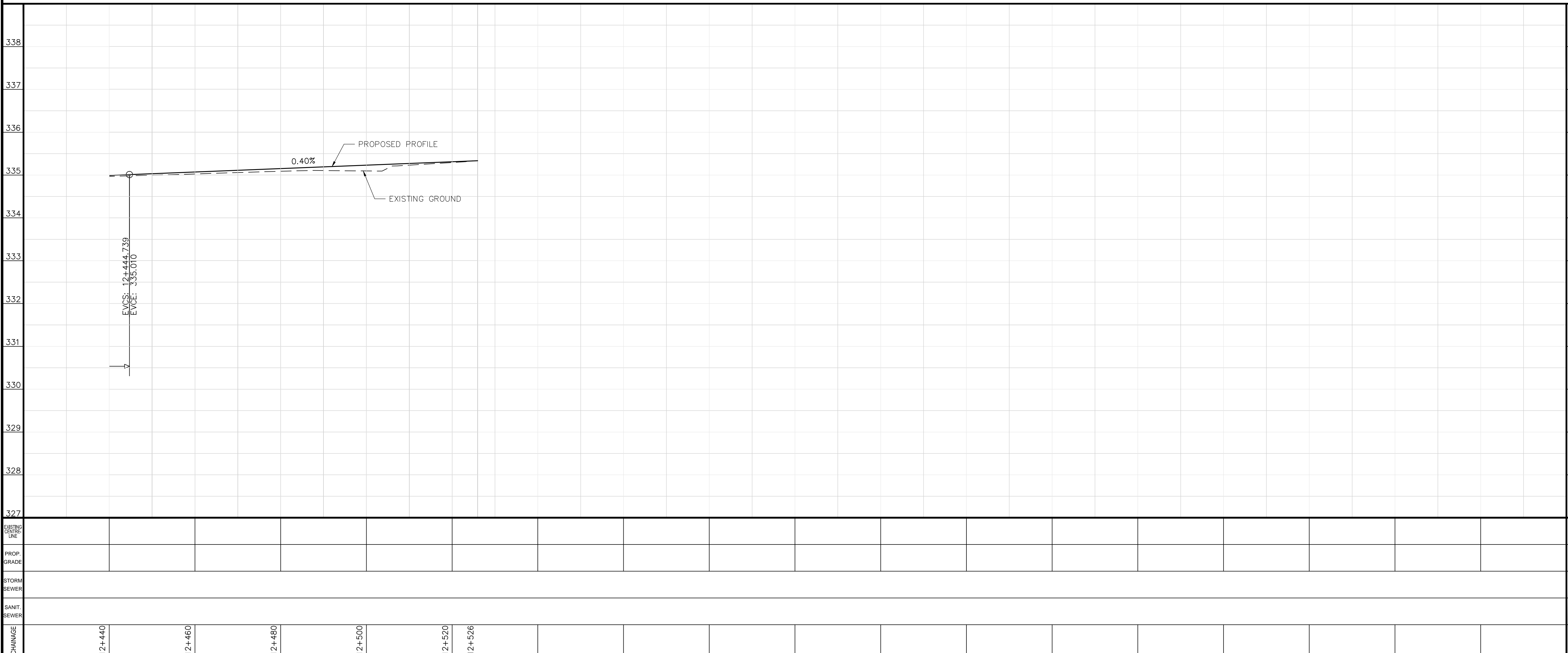


KEY PLAN Scale : NOT TO SCALE



YORK ROAD

- LEGEND**
- EXISTING RIGHT OF WAY
  - PROPOSED RIGHT OF WAY WIDENING
  - PROPOSED CURB
  - XXXXXX PROPOSED GRADE SLOPE
  - PROPOSED PAVEMENT WIDENING
  - PROPOSED MULTI-USE PATH
  - PROPOSED TREE REMOVAL
  - GRADING LINE 3:1 SLOPE
  - GRADING LINE 2:1 SLOPE



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No.	DATE	DESCRIPTION	BY:	CHKD.
ISSUES/REVISIONS				



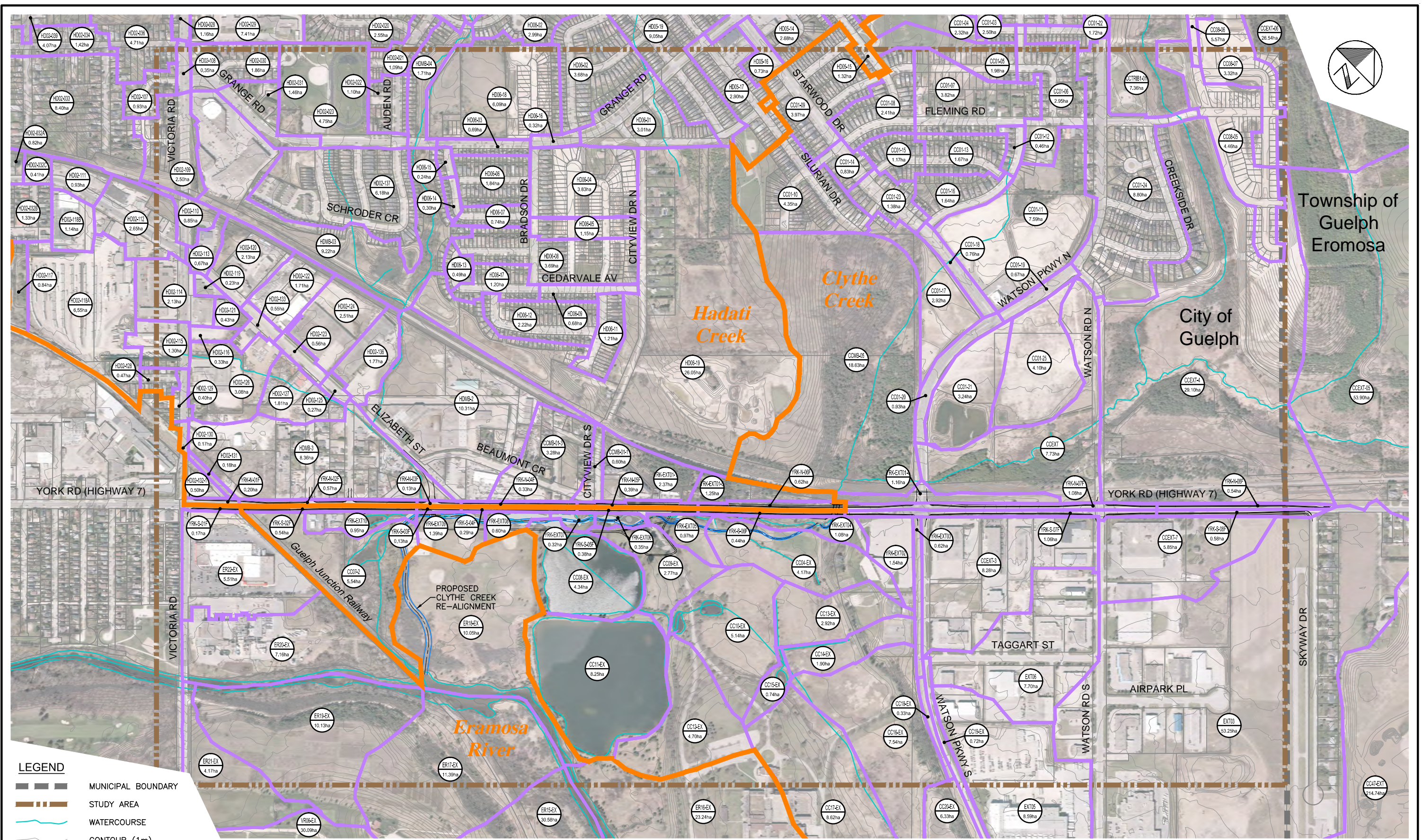
YORK ROAD ENVIRONMENTAL DESIGN STUDY

EXISTING CENTRELINE	SCALE: HOR: 1:500 VER: 1:50
PROPOSED GRADE	DATE DRAWN: 2016-09-21
STORM SEWER	DRAWN BY: B.S. CHECKED BY: M.E.K.
SANITARY SEWER	CONSULTANT DRAWING No. FIGURE 4.1.10
CHAINAGE	CITY CONTRACT No.
	CITY REFERENCE No. REV.



Plotted: 2017-03-10  
 Last Saved: 2017-03-10  
 Path: P:\Work\TP115100\water\dwg\2016-11\Fig3\_StudyAreaDrainage(Pro).dwg

Plotted By: richard.bartolo  
 Last Saved By: richard.bartolo



**LEGEND**

- MUNICIPAL BOUNDARY
- STUDY AREA
- WATERCOURSE
- CONTOUR (1m)
- WATERSHED BOUNDARY
- SUBCATCHMENT BOUNDARY
- SUBCATCHMENT ID#
- SUBCATCHMENT AREA

**YORK ROAD ENVIRONMENTAL  
 DESIGN STUDY  
 CITY OF GUELPH**

**STUDY AREA  
 DRAINAGE PLAN  
 (FUTURE CONDITIONS)**



SCALE VALID ONLY FOR  
 24"x36" VERSION

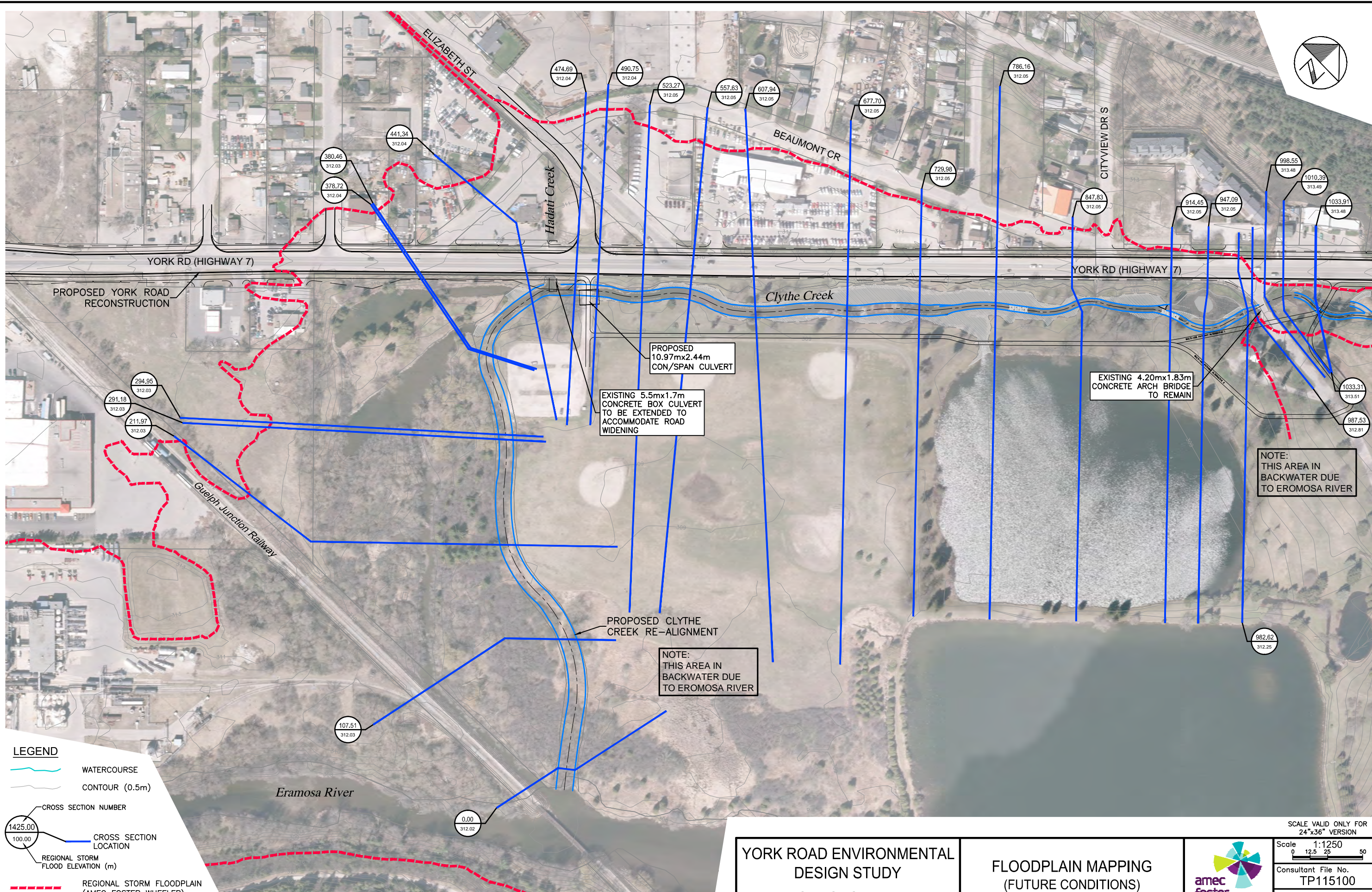
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Consultant File No.  
 TP115100

Figure No.  
 4.1.11



Plotted: 2017-03-10  
 Last Saved: 2017-03-10  
 Plotted By: richard.bartolo  
 Last Saved By: richard.bartolo  
 Path: P:\Work\TP115100\water\dwg\2016-11\Fig5\_FloodlineMapping(Pro).dwg



**LEGEND**

- WATERCOURSE
- CONTOUR (0.5m)
- CROSS SECTION NUMBER
- CROSS SECTION LOCATION
- REGIONAL STORM FLOOD ELEVATION (m)
- REGIONAL STORM FLOODPLAIN (AMEC FOSTER WHEELER)

PROPOSED  
10.97mx2.44m  
CON/SPAN CULVERT

EXISTING 5.5mx1.7m  
CONCRETE BOX CULVERT  
TO BE EXTENDED TO  
ACCOMMODATE ROAD  
WIDENING

EXISTING 4.20mx1.83m  
CONCRETE ARCH BRIDGE  
TO REMAIN

PROPOSED CLYTHE  
CREEK RE-ALIGNMENT

NOTE:  
THIS AREA IN  
BACKWATER DUE  
TO EROMOSA RIVER

NOTE:  
THIS AREA IN  
BACKWATER DUE  
TO EROMOSA RIVER

YORK ROAD ENVIRONMENTAL  
DESIGN STUDY  
CITY OF GUELPH

FLOODPLAIN MAPPING  
(FUTURE CONDITIONS)



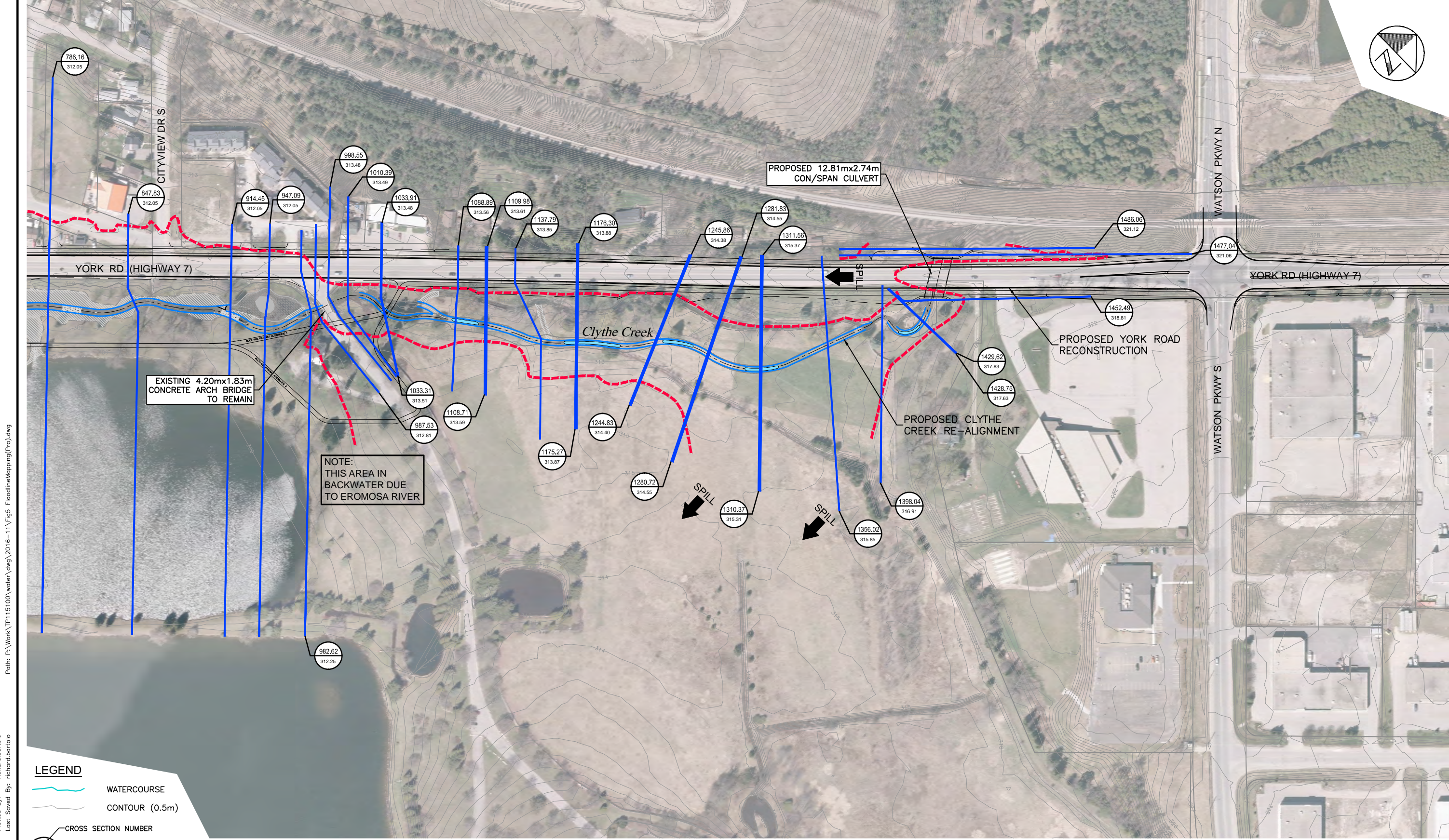
SCALE VALID ONLY FOR  
24"x36" VERSION

Scale 1:1250  
0 12.5 25 50

Consultant File No.  
TP115100

Figure No.  
4.1.12





Path: P:\Work\TP115100\water\dwg\2016-11\Fig5 FloodlineMapping(Pro).dwg

Plotted: 2017-03-10  
Last Saved: 2017-03-10  
Plotted By: richard.bartolo  
Last Saved By: richard.bartolo

**LEGEND**

- WATERCOURSE
- CONTOUR (0.5m)
- 1425.00 100.00 CROSS SECTION NUMBER
- CROSS SECTION LOCATION
- REGIONAL STORM FLOOD ELEVATION (m)
- - - REGIONAL STORM FLOODPLAIN (AMEC FOSTER WHEELER)

**YORK ROAD ENVIRONMENTAL  
DESIGN STUDY  
CITY OF GUELPH**

**FLOODPLAIN MAPPING  
(FUTURE CONDITIONS)**



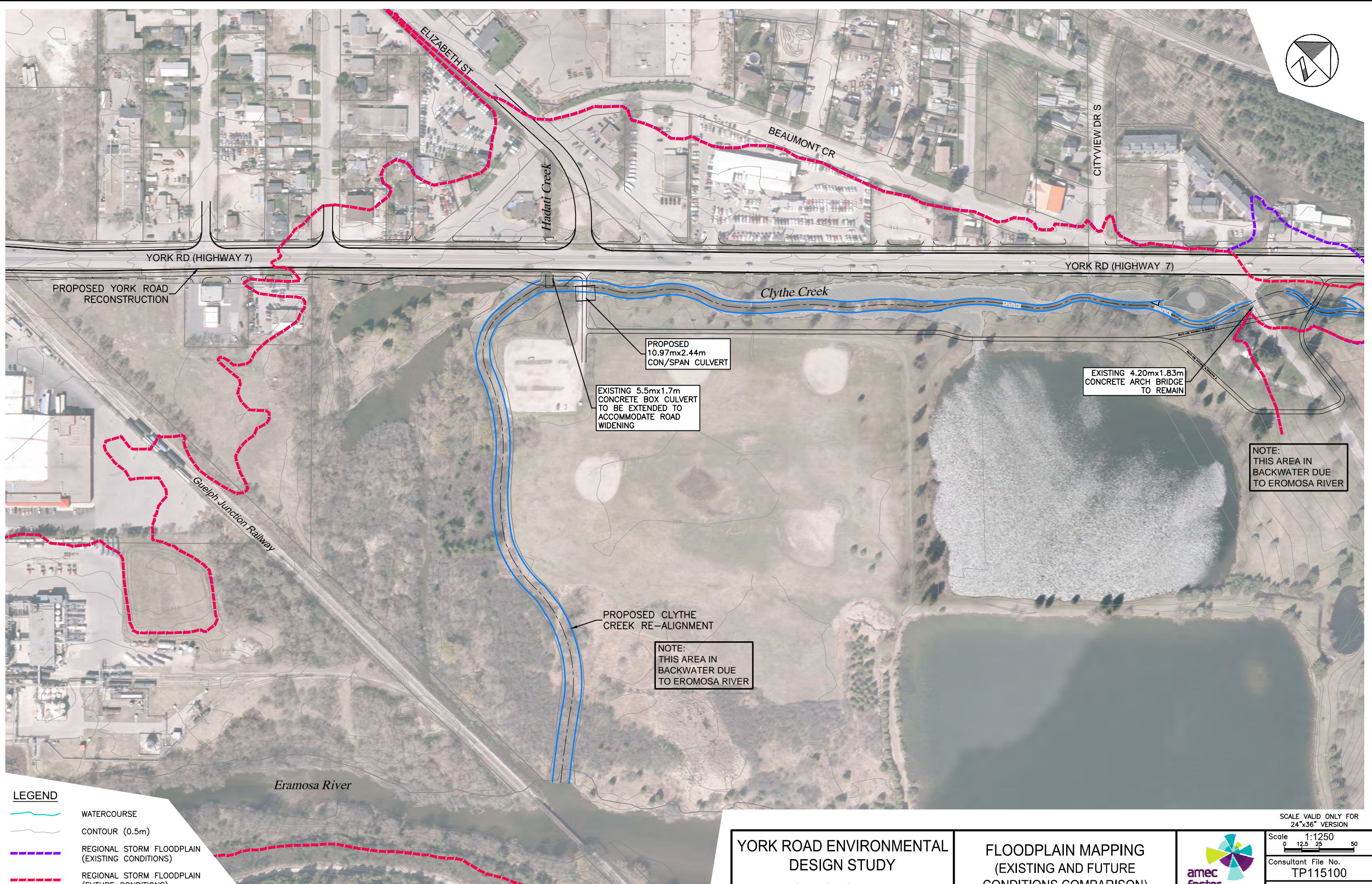
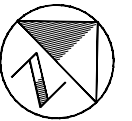
SCALE VALID ONLY FOR  
24"x36" VERSION

Scale 1:1250  
0 12.5 25 50

Consultant File No.  
TP115100

Figure No.  
4.1.13





Plotted: 2017-03-10  
Last Saved: 2017-03-10  
Plotted By: richard.bartolo  
Last Saved By: richard.bartolo  
Path: P:\Work\TP115100\water\dwg\2016-11\Fig6 FloodlineMapping(Comp).dwg

**LEGEND**

	WATERCOURSE
	CONTOUR (0.5m)
	REGIONAL STORM FLOODPLAIN (EXISTING CONDITIONS)
	REGIONAL STORM FLOODPLAIN (FUTURE CONDITIONS)

**YORK ROAD ENVIRONMENTAL  
DESIGN STUDY**  
CITY OF GUELPH

**FLOODPLAIN MAPPING  
(EXISTING AND FUTURE  
CONDITIONS COMPARISON)**



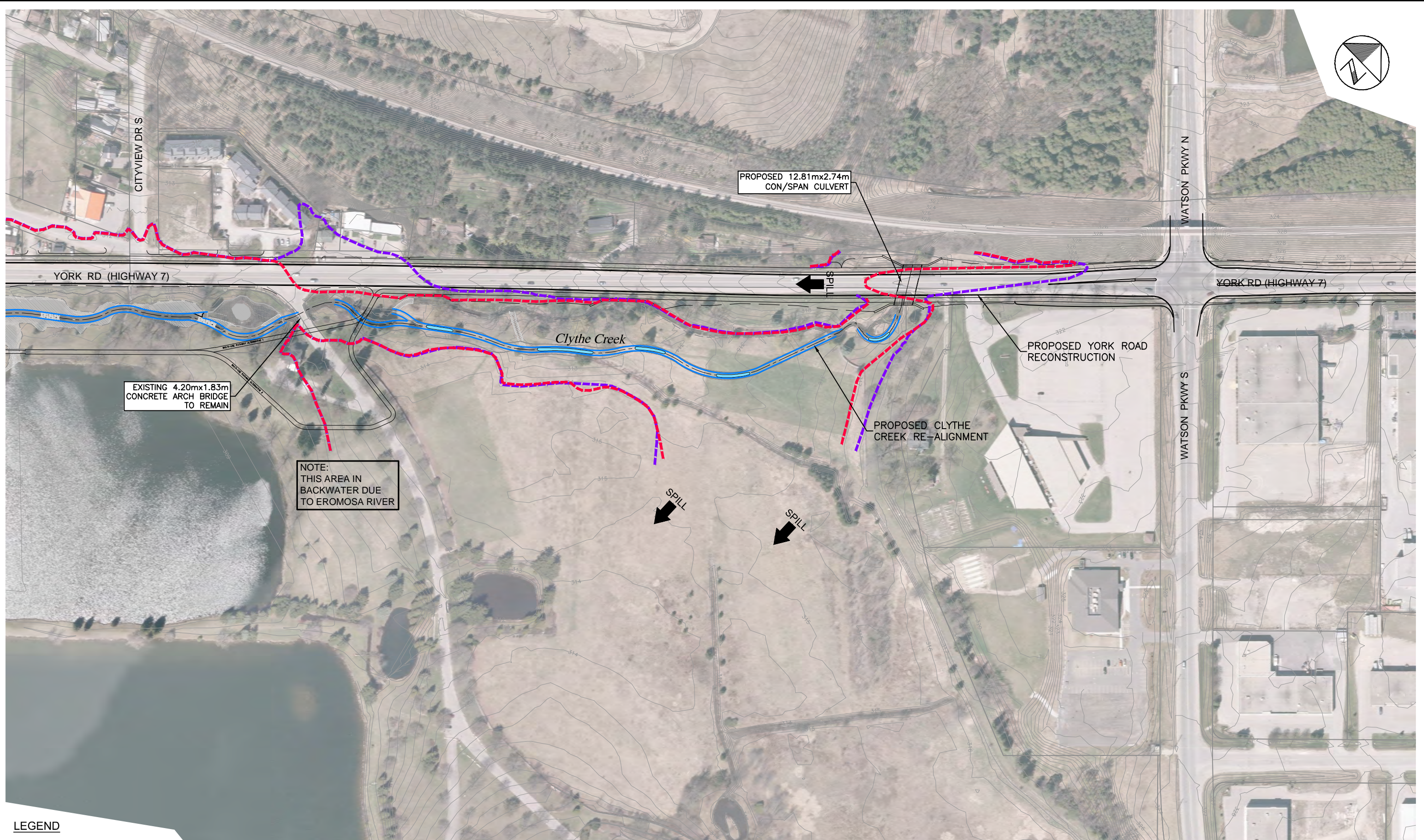
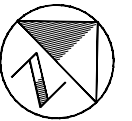
SCALE VALID ONLY FOR  
24"x36" VERSION

Scale 1:1250  
0 12.5 25 50

Consultant File No.  
TP115100

Figure No.  
4.1.14





Path: P:\Work\TP115100\water\dwg\2016-11\Fig6 FloodlineMapping(Comp).dwg

Plotted By: richard.bartolo  
Last Saved By: richard.bartolo  
2017-03-10  
2017-03-10

LEGEND	
	WATERCOURSE
	CONTOUR (0.5m)
	REGIONAL STORM FLOODPLAIN (EXISTING CONDITIONS)
	REGIONAL STORM FLOODPLAIN (FUTURE CONDITIONS)

SCALE VALID ONLY FOR 24"x36" VERSION

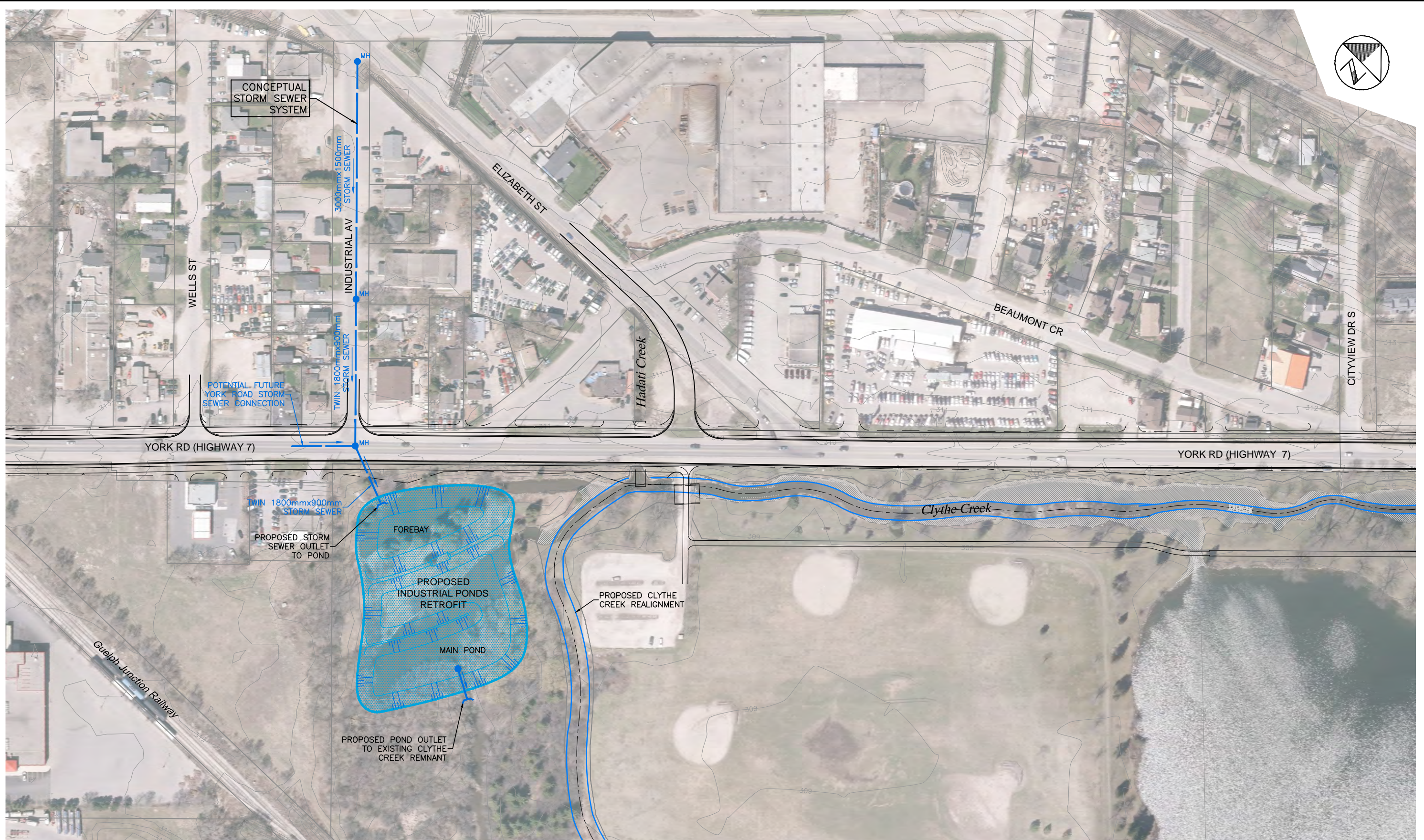
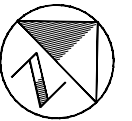
YORK ROAD ENVIRONMENTAL DESIGN STUDY  
CITY OF GUELPH

FLOODPLAIN MAPPING (EXISTING AND FUTURE CONDITIONS COMPARISON)



Scale 1:1250 0 12.5 25 50
Consultant File No. TP115100
Figure No. 4.1.15





Plotted: 2017-03-10  
Last Saved: 2017-03-10  
Path: P:\Work\TP115100\water\dwg\2016-11\Fig7 PondReconst.dwg  
Plotted By: richard.bartolo  
Last Saved By: richard.bartolo

LEGEND	
	WATERCOURSE
	CONTOUR (0.5m)

YORK ROAD ENVIRONMENTAL  
DESIGN STUDY  
CITY OF GUELPH

CONCEPTUAL  
INDUSTRIAL PONDS  
RETROFIT



SCALE VALID ONLY FOR 24"x36" VERSION	
Scale	1:1250
Consultant File No.	TP115100
Figure No.	4.1.16