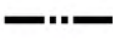







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2022-03-31
Last Saved By: richard.bartoio
2022-03-31

LEGEND

-  STUDY AREA BOUNDARY
-  PROPERTY LINE
-  WATERCOURSE
-  CROSSING LOCATION
-  RAIN GAUGE LOCATION
-  FLOW MONITORING LOCATION

**CLAREMONT
DRAINAGE PLAN
CITY OF PICKERING**

STUDY AREA PLAN

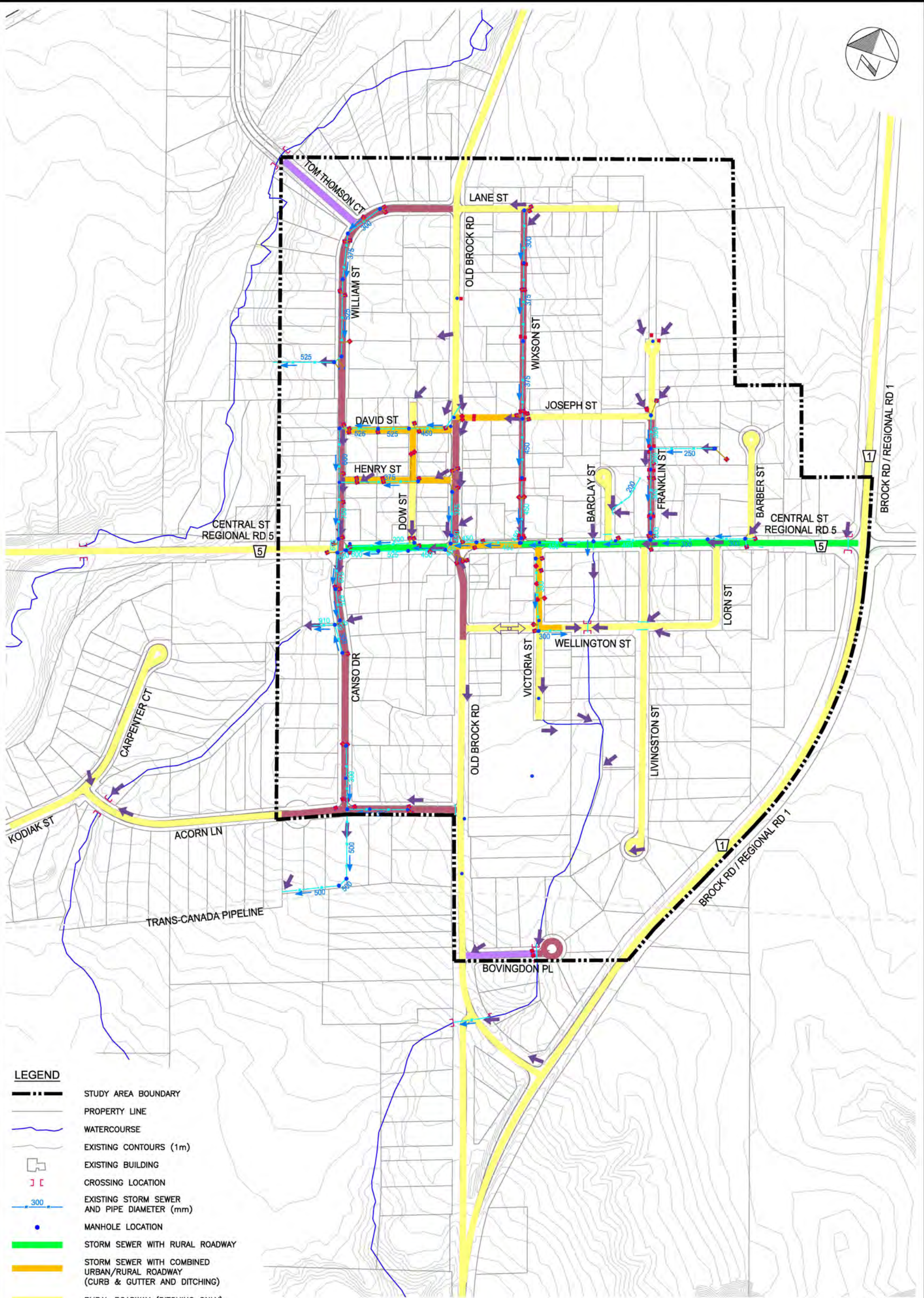
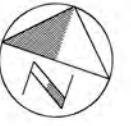


SCALE VALID ONLY FOR
24"x36" VERSION

Scale 1:2500
0 25 50 100
















Consultant File No.
TPB1681525

Figure No.
1



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Last Saved By: richard.bortolo
2022-03-31

LEGEND

-  STUDY AREA BOUNDARY
-  PROPERTY LINE
-  WATERCOURSE
-  EXISTING CONTOURS (1m)
-  EXISTING BUILDING
-  CROSSING LOCATION
-  EXISTING STORM SEWER AND PIPE DIAMETER (mm)
-  MANHOLE LOCATION
-  STORM SEWER WITH RURAL ROADWAY
-  STORM SEWER WITH COMBINED URBAN/RURAL ROADWAY (CURB & GUTTER AND DITCHING)
-  RURAL ROADWAY (DITCHING ONLY)
-  URBAN ROADWAY (NO SEWER)
-  STORM SEWER WITH URBAN ROADWAY
-  MAJOR SYSTEM FLOW DIRECTION
-  MINOR SYSTEM FLOW DIRECTION

SCALE VALID ONLY FOR 24"x36" VERSION

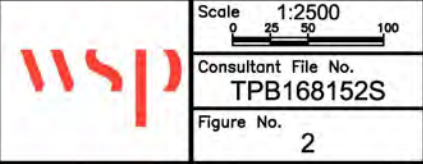
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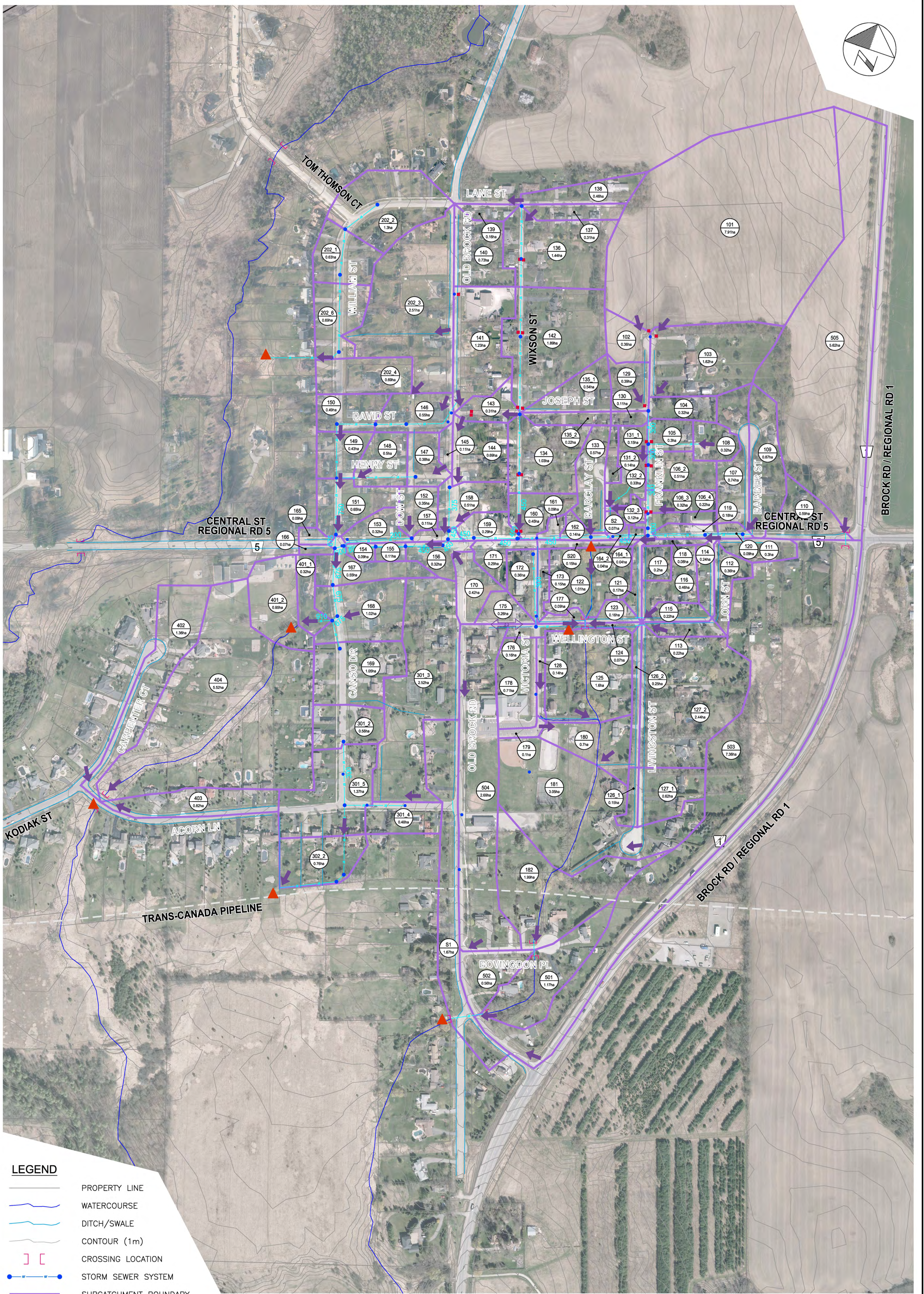
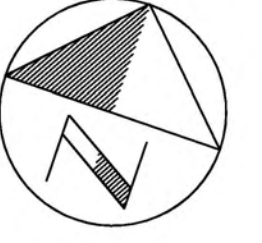
Consultant File No. TPB1681525

Figure No. 2

CLAREMONT DRAINAGE PLAN
CITY OF PICKERING









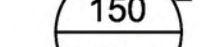

DRAINAGE SYSTEM CHARACTERIZATION





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Plotted By: richard.bartolo
2022-03-31
Last Saved: 2022-03-31

LEGEND

-  PROPERTY LINE
-  WATERCOURSE
-  DITCH/SWALE
-  CONTOUR (1m)
-  CROSSING LOCATION
-  STORM SEWER SYSTEM
-  SUBCATCHMENT BOUNDARY
-  SUBCATCHMENT ID #
SUBCATCHMENT AREA
-  MAJOR SYSTEM FLOW DIRECTION
-  OUTFALL LOCATION

**CLAREMONT
DRAINAGE PLAN
CITY OF PICKERING**

**SUBCATCHMENT
BOUNDARY PLAN**

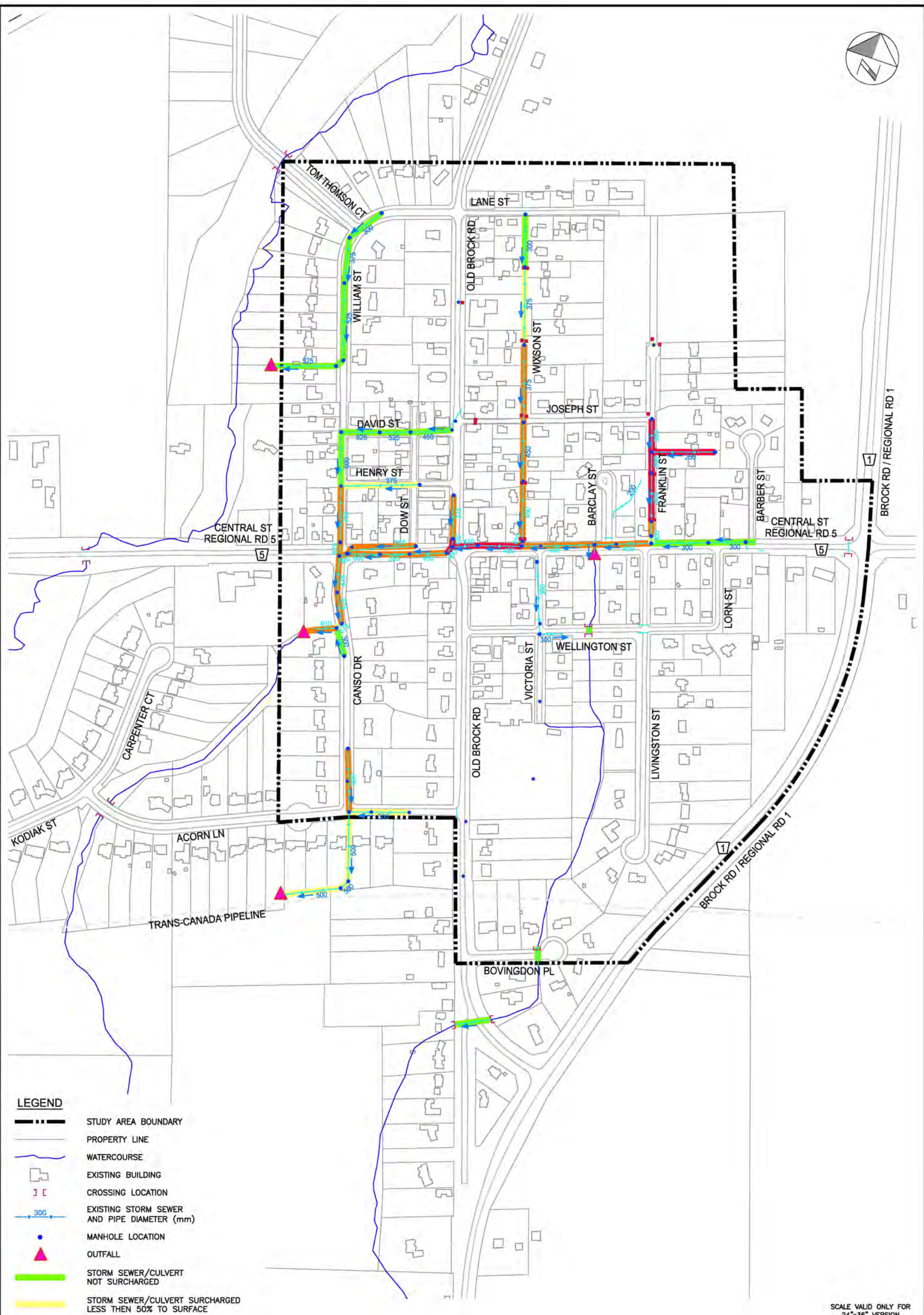
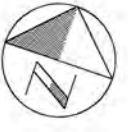


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Consultant File No.
TPB168152S

Figure No.
3



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Last Saved By: richard.bortolo
Last Saved: 2022-03-31

LEGEND

-  STUDY AREA BOUNDARY
-  PROPERTY LINE
-  WATERCOURSE
-  EXISTING BUILDING
-  CROSSING LOCATION
-  EXISTING STORM SEWER AND PIPE DIAMETER (mm)
-  MANHOLE LOCATION
-  OUTFALL
-  STORM SEWER/CULVERT NOT SURCHARGED
-  STORM SEWER/CULVERT SURCHARGED LESS THEN 50% TO SURFACE
-  STORM SEWER/CULVERT SURCHARGED GREATER THEN 50% TO SURFACE
-  STORM SEWER/CULVERT FLOODED
-  MINOR SYSTEM FLOW DIRECTION

**CLAREMONT
DRAINAGE PLAN
CITY OF PICKERING**

**5 YEAR PERFORMANCE
SUMMARY (MINOR SYSTEM)**

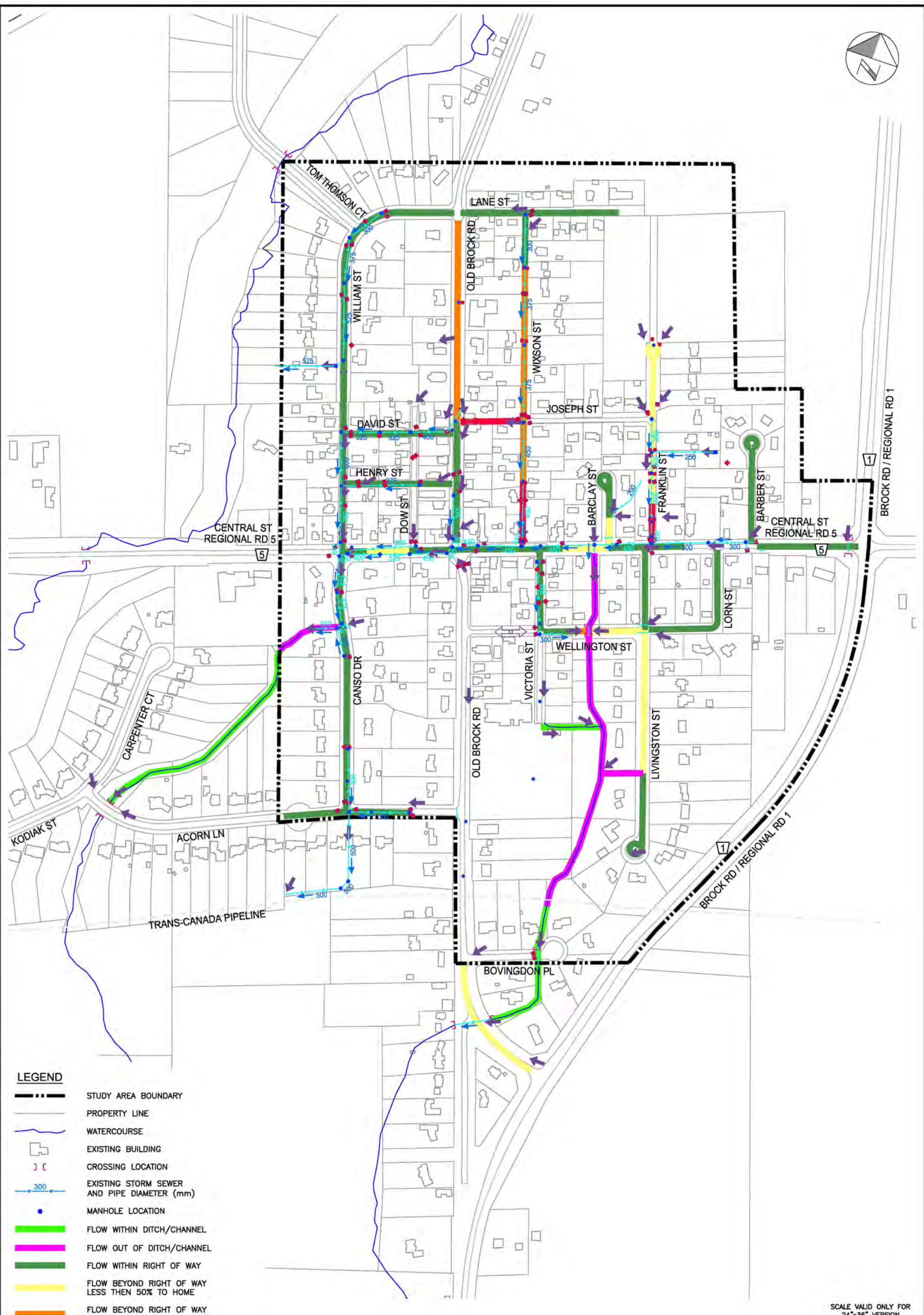
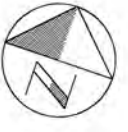


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Consultant File No.
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Figure No.
4



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Plotted By: richard.bortolo
Last Saved By: richard.bortolo
Last Saved: 2022-03-31

LEGEND

-  STUDY AREA BOUNDARY
-  PROPERTY LINE
-  WATERCOURSE
-  EXISTING BUILDING
-  CROSSING LOCATION
-  EXISTING STORM SEWER AND PIPE DIAMETER (mm)
-  MANHOLE LOCATION
-  FLOW WITHIN DITCH/CHANNEL
-  FLOW OUT OF DITCH/CHANNEL
-  FLOW WITHIN RIGHT OF WAY
-  FLOW BEYOND RIGHT OF WAY LESS THEN 50% TO HOME
-  FLOW BEYOND RIGHT OF WAY GREATER THEN 50% TO HOME
-  FLOW BEYOND RIGHT OF WAY AT HOME
-  MAJOR SYSTEM FLOW DIRECTION
-  MINOR SYSTEM FLOW DIRECTION

**CLAREMONT
DRAINAGE PLAN
CITY OF PICKERING**

**100 YEAR PERFORMANCE
SUMMARY**

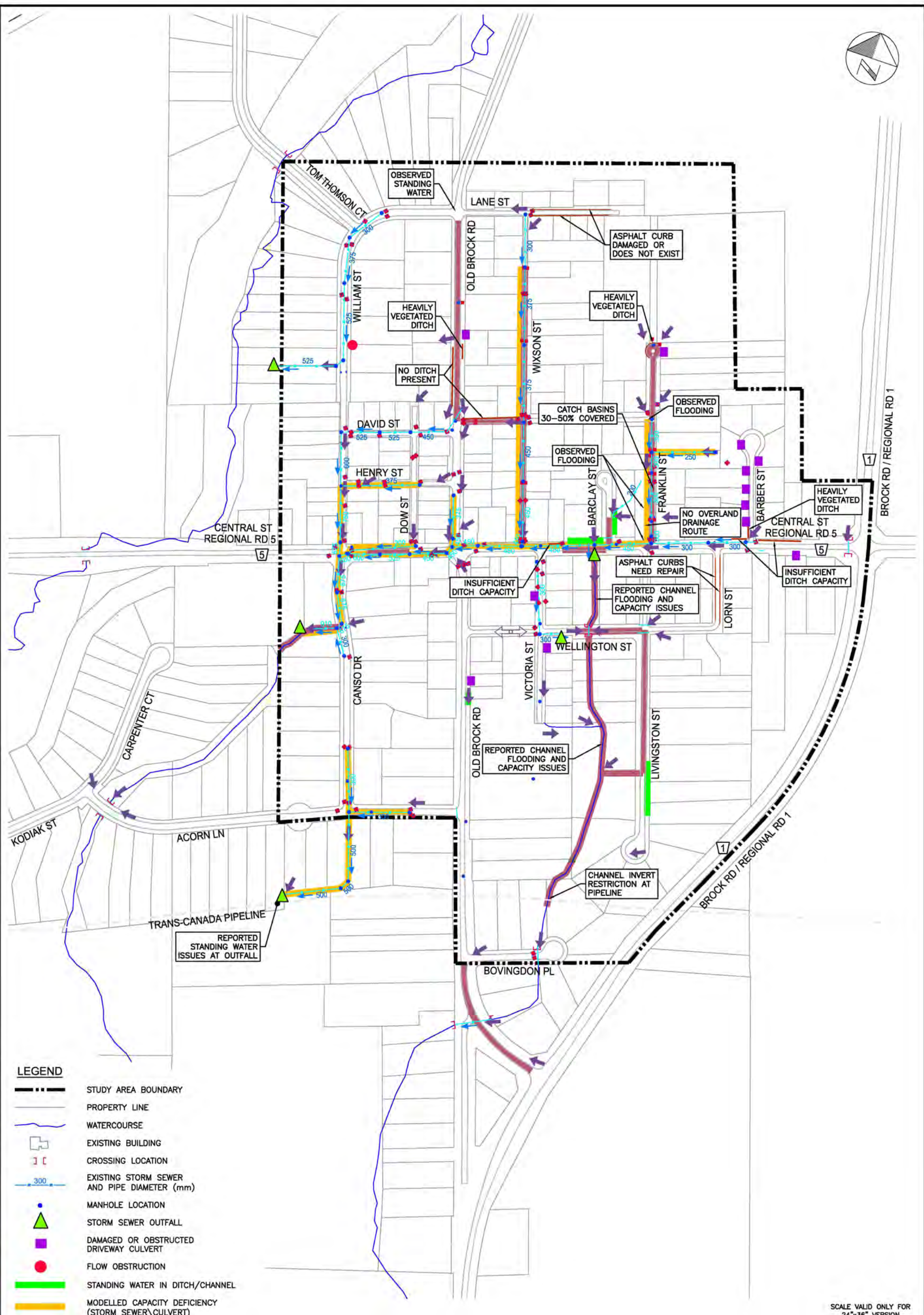
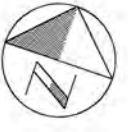


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Consultant File No.
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Figure No.
5



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2022-03-31
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Last Saved By: richard.bartoia
Last Saved: 2022-03-31

LEGEND

-  STUDY AREA BOUNDARY
-  PROPERTY LINE
-  WATERCOURSE
-  EXISTING BUILDING
-  CROSSING LOCATION
-  EXISTING STORM SEWER AND PIPE DIAMETER (mm)
-  MANHOLE LOCATION
-  STORM SEWER OUTFALL
-  DAMAGED OR OBSTRUCTED DRIVEWAY CULVERT
-  FLOW OBSTRUCTION
-  STANDING WATER IN DITCH/CHANNEL
-  MODELLED CAPACITY DEFICIENCY (STORM SEWER\CULVERT)
-  MODELLED CAPACITY DEFICIENCY (OVERLAND FLOW)
-  MAJOR SYSTEM FLOW DIRECTION
-  MINOR SYSTEM FLOW DIRECTION

CLAREMONT
DRAINAGE PLAN
CITY OF PICKERING

DRAINAGE ISSUES
SUMMARY

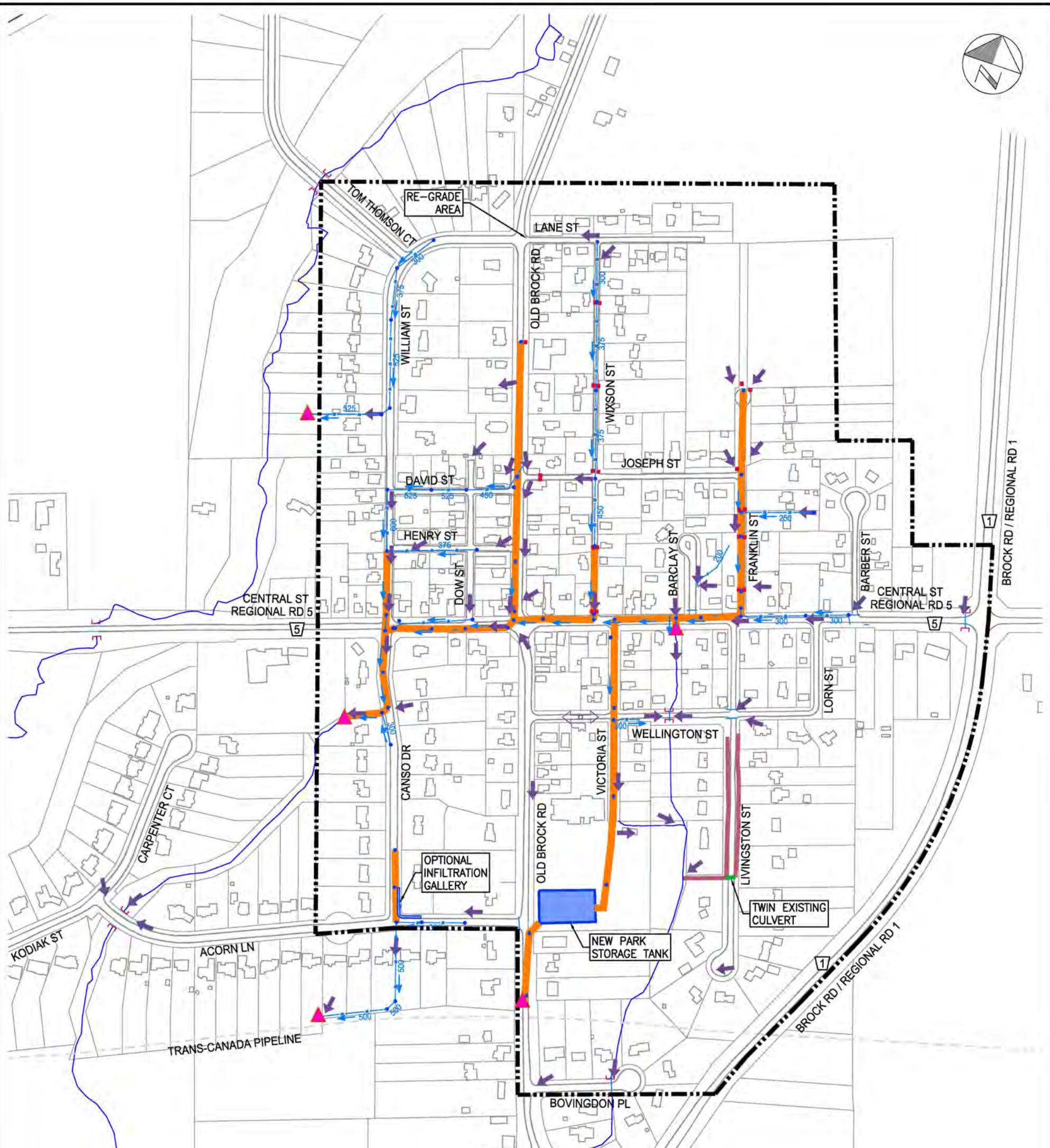
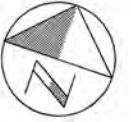


SCALE VALID ONLY FOR
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Scale 1:2500
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Consultant File No.
TPB1681525

Figure No.
6



- LEGEND**
- STUDY AREA BOUNDARY
 - PROPERTY LINE
 - WATERCOURSE
 - EXISTING BUILDING
 - CROSSING LOCATION
 - EXISTING STORM SEWER AND PIPE DIAMETER (mm)
 - MANHOLE LOCATION
 - MAJOR SYSTEM FLOW DIRECTION
 - MINOR SYSTEM FLOW DIRECTION
 - NEW STORAGE TANKS
 - OUTFALL
 - STORM SEWER UPGRADE
 - NEW CATCHBASIN
 - DITCH RE-PROFILING
 - CULVERT UPGRADES

**CLAREMONT
DRAINAGE PLAN
CITY OF PICKERING**

**ALTERNATIVE 1
CLAREMONT MEMORIAL PARK**



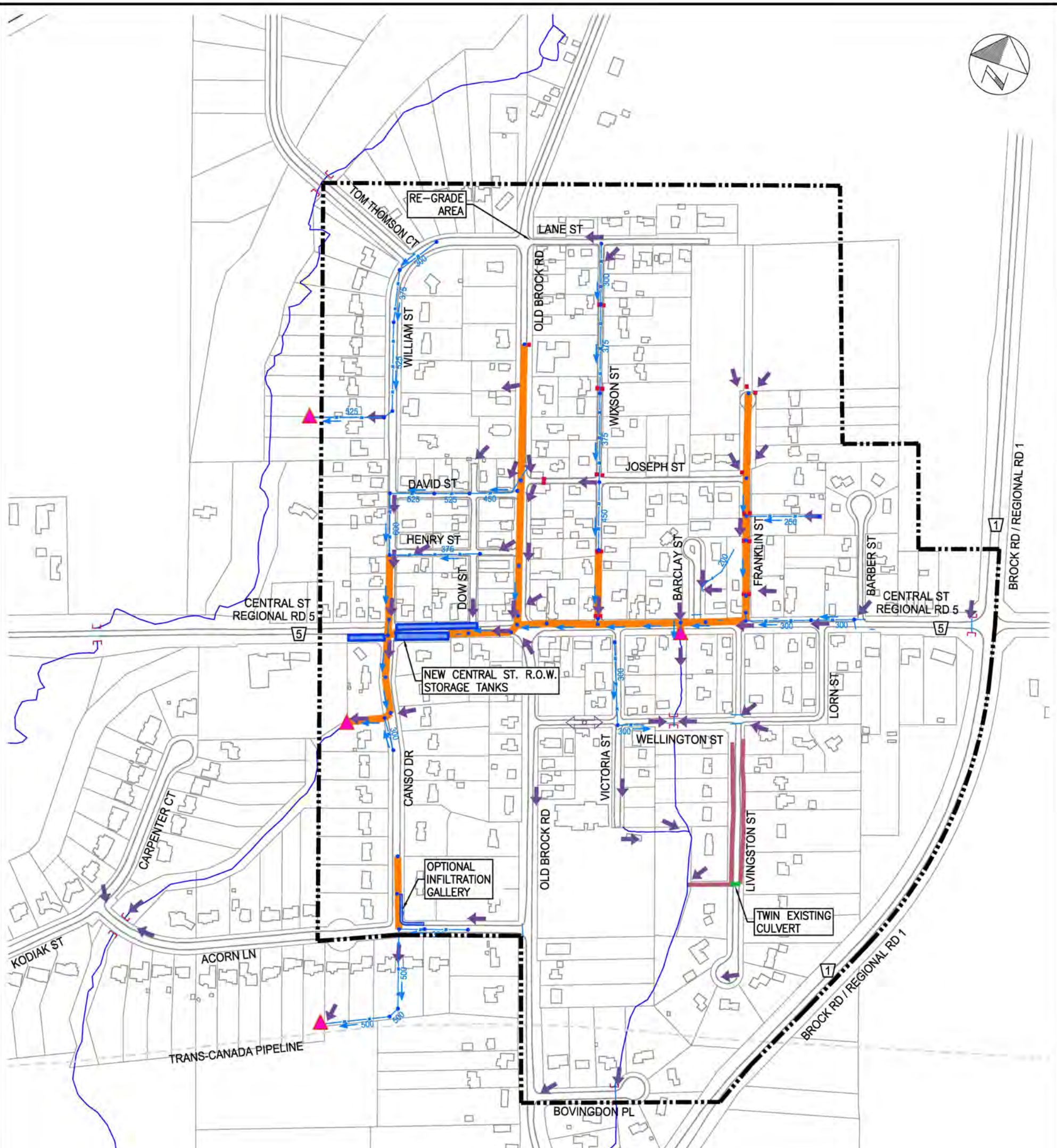
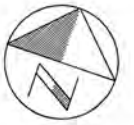
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Consultant File No.
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Figure No.
7

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- LEGEND**
-  STUDY AREA BOUNDARY
 -  PROPERTY LINE
 -  WATERCOURSE
 -  EXISTING BUILDING
 -  CROSSING LOCATION
 -  EXISTING STORM SEWER AND PIPE DIAMETER (mm)
 -  MANHOLE LOCATION
 -  MAJOR SYSTEM FLOW DIRECTION
 -  MINOR SYSTEM FLOW DIRECTION
 -  NEW STORAGE TANKS
 -  OUTFALL
 -  STORM SEWER UPGRADE
 -  NEW CATCHBASIN
 -  DITCH RE-PROFILING
 -  CULVERT UPGRADES

**CLAREMONT
DRAINAGE PLAN
CITY OF PICKERING**

**ALTERNATIVE 2
CENTRAL STREET
RIGHT-OF-WAY**



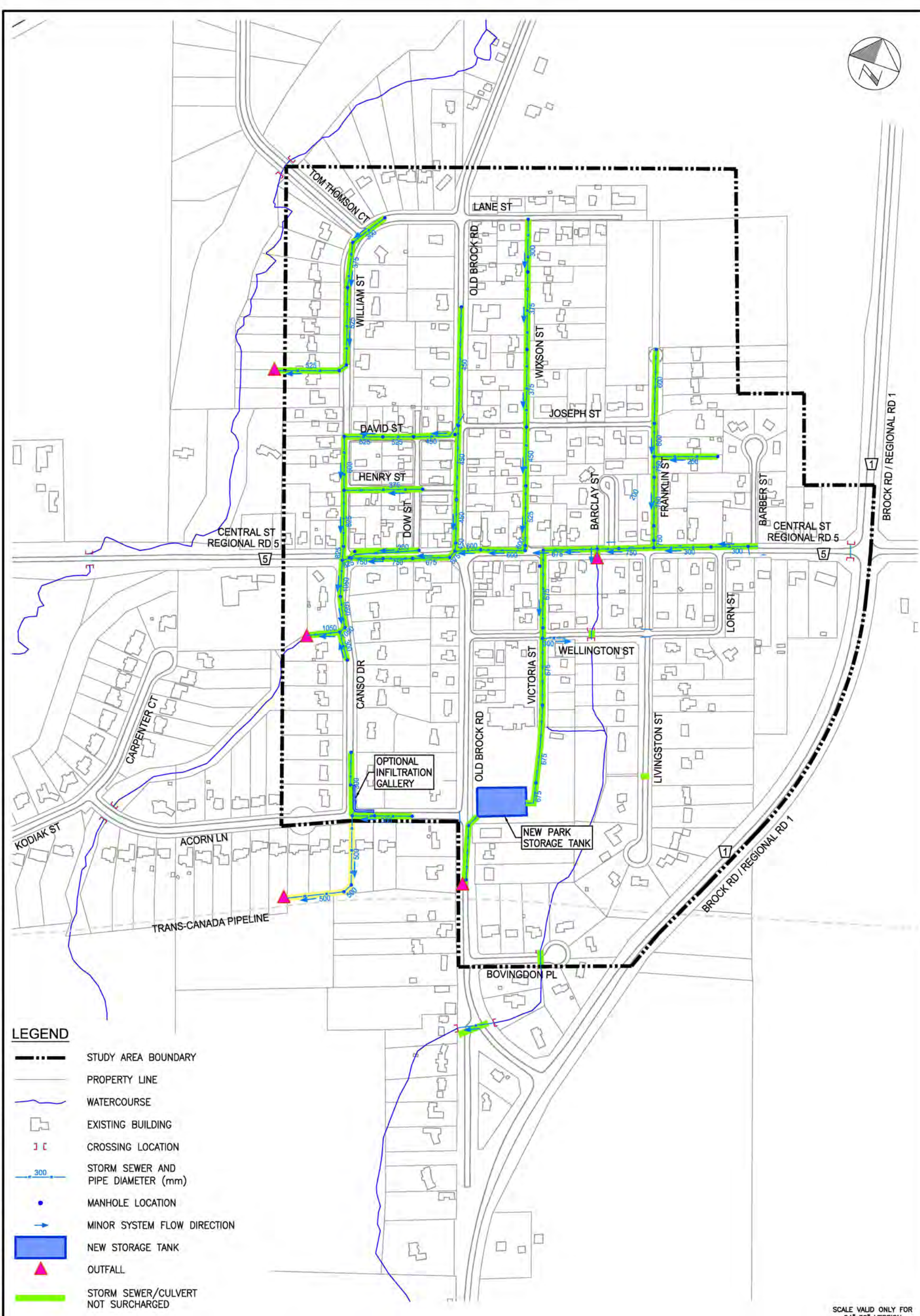
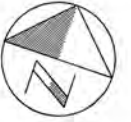
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Figure No.
8

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LEGEND

-  STUDY AREA BOUNDARY
-  PROPERTY LINE
-  WATERCOURSE
-  EXISTING BUILDING
-  CROSSING LOCATION
-  STORM SEWER AND PIPE DIAMETER (mm)
-  MANHOLE LOCATION
-  MINOR SYSTEM FLOW DIRECTION
-  NEW STORAGE TANK
-  OUTFALL
-  STORM SEWER/CULVERT NOT SURCHARGED
-  STORM SEWER/CULVERT SURCHARGED LESS THAN 50% TO SURFACE

**CLAREMONT
DRAINAGE PLAN
CITY OF PICKERING**

**ALTERNATIVE 1
CLAREMONT MEMORIAL PARK
5 YEAR PERFORMANCE SUMMARY
(MINOR SYSTEM)**

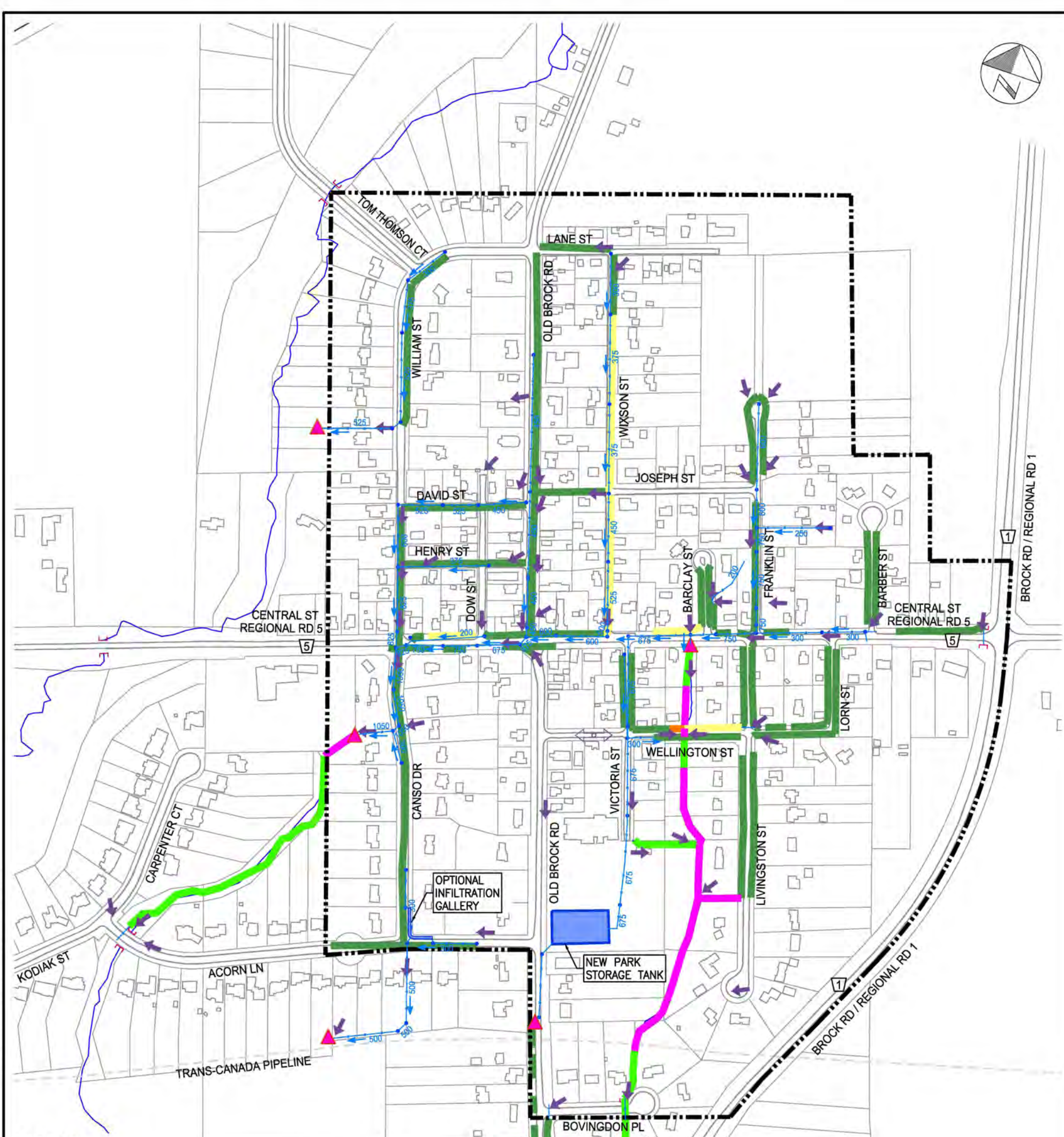
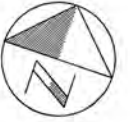


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Consultant File No.
TPB168152S

Figure No.
9



- LEGEND**
- STUDY AREA BOUNDARY
 - PROPERTY LINE
 - WATERCOURSE
 - EXISTING BUILDING
 - CROSSING LOCATION
 - STORM SEWER AND PIPE DIAMETER (mm)
 - MANHOLE LOCATION
 - MAJOR SYSTEM FLOW DIRECTION
 - MINOR SYSTEM FLOW DIRECTION
 - NEW STORAGE TANK
 - OUTFALL
 - FLOW WITHIN DITCH/CHANNEL
 - FLOW OUT OF DITCH/CHANNEL
 - FLOW WITHIN RIGHT OF WAY
 - FLOW BEYOND RIGHT OF WAY LESS THAN 50% TO HOME
 - FLOW BEYOND RIGHT OF WAY GREATER THAN 50% TO HOME

**CLAREMONT
DRAINAGE PLAN
CITY OF PICKERING**

**ALTERNATIVE 1
CLAREMONT MEMORIAL PARK
100 YEAR PERFORMANCE SUMMARY
(MAJOR SYSTEM)**



SCALE VALID ONLY FOR
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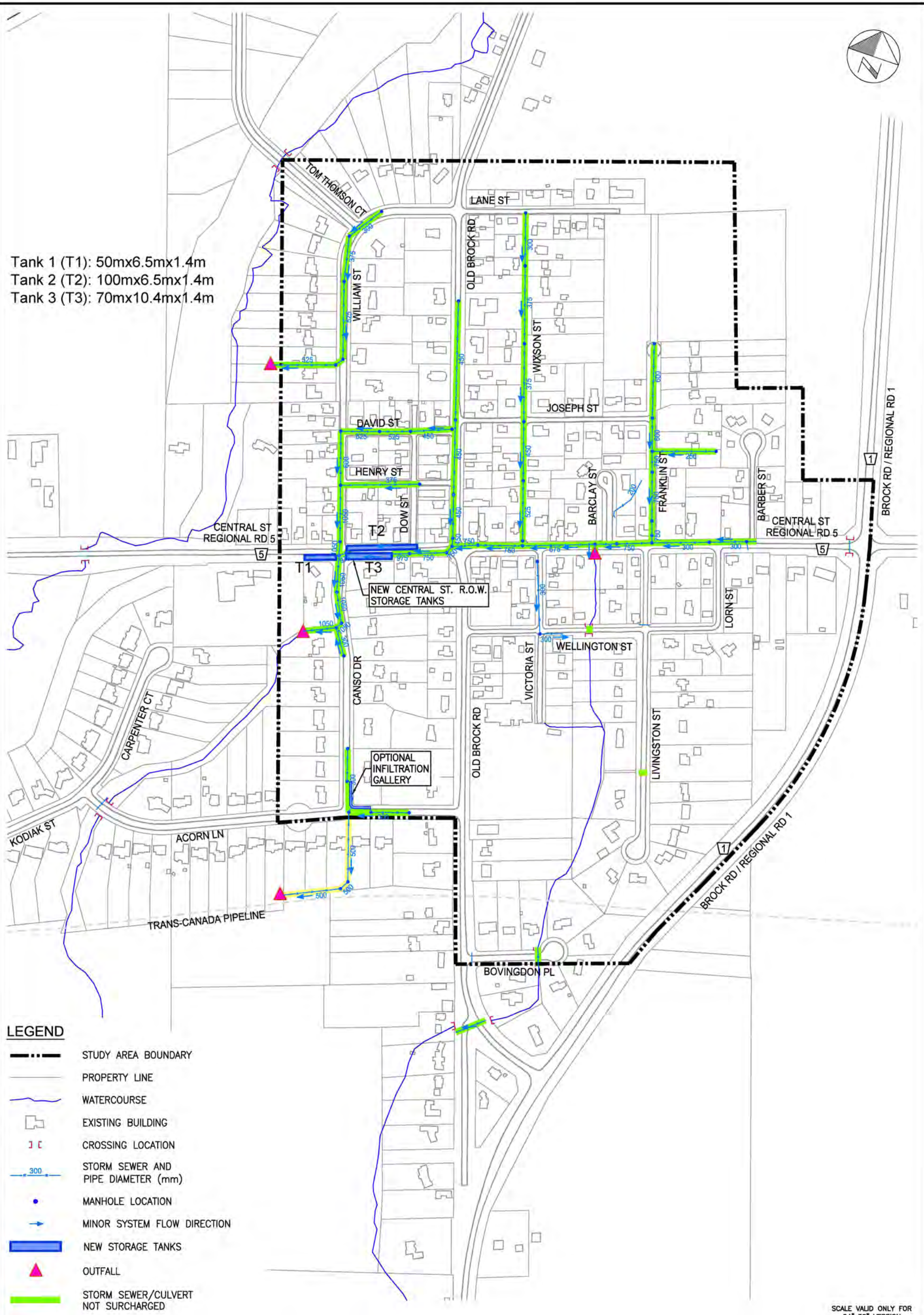
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Figure No.
10




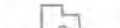








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 2022-03-31
 Plotted: 2022-03-31
 Last Saved By: richard.bortolo
 Last Saved: 2022-03-31



Tank 1 (T1): 50mx6.5mx1.4m
 Tank 2 (T2): 100mx6.5mx1.4m
 Tank 3 (T3): 70mx10.4mx1.4m



LEGEND

-  STUDY AREA BOUNDARY
-  PROPERTY LINE
-  WATERCOURSE
-  EXISTING BUILDING
-  CROSSING LOCATION
-  STORM SEWER AND PIPE DIAMETER (mm)
-  MANHOLE LOCATION
-  MINOR SYSTEM FLOW DIRECTION
-  NEW STORAGE TANKS
-  OUTFALL
-  STORM SEWER/CULVERT NOT SURCHARGED
-  STORM SEWER/CULVERT SURCHARGED LESS THAN 50% TO SURFACE

**CLAREMONT
 DRAINAGE PLAN
 CITY OF PICKERING**

**ALTERNATIVE 2
 CENTRAL STREET ROW
 5 YEAR PERFORMANCE SUMMARY
 (MINOR SYSTEM)**



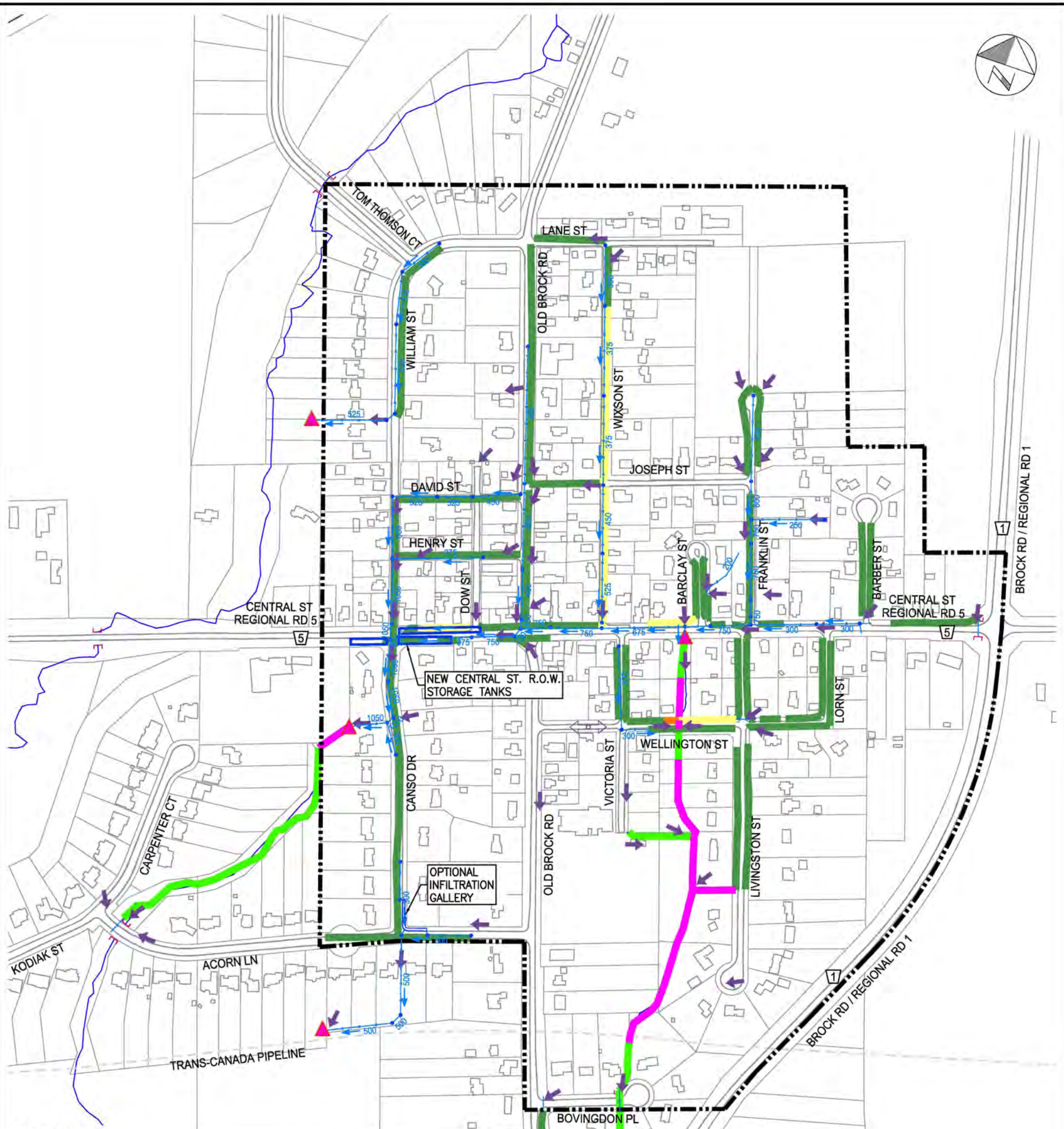
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Consultant File No.
 TPB168152S

Figure No.
 11

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 2022-03-31
 Plotted By: richard.bartolo
 Last Saved: 2022-03-31



LEGEND

- STUDY AREA BOUNDARY
- PROPERTY LINE
- WATERCOURSE
- EXISTING BUILDING
- CROSSING LOCATION
- STORM SEWER AND PIPE DIAMETER (mm)
- MANHOLE LOCATION
- MAJOR SYSTEM FLOW DIRECTION
- MINOR SYSTEM FLOW DIRECTION
- NEW STORAGE TANKS
- OUTFALL
- FLOW WITHIN DITCH/CHANNEL
- FLOW OUT OF DITCH/CHANNEL
- FLOW WITHIN RIGHT OF WAY
- FLOW BEYOND RIGHT OF WAY LESS THAN 50% TO HOME
- FLOW BEYOND RIGHT OF WAY GREATER THAN 50% TO HOME

**CLAREMONT
DRAINAGE PLAN
CITY OF PICKERING**

**ALTERNATIVE 2
CENTRAL STREET ROW
100 YEAR PERFORMANCE SUMMARY
(MAJOR SYSTEM)**



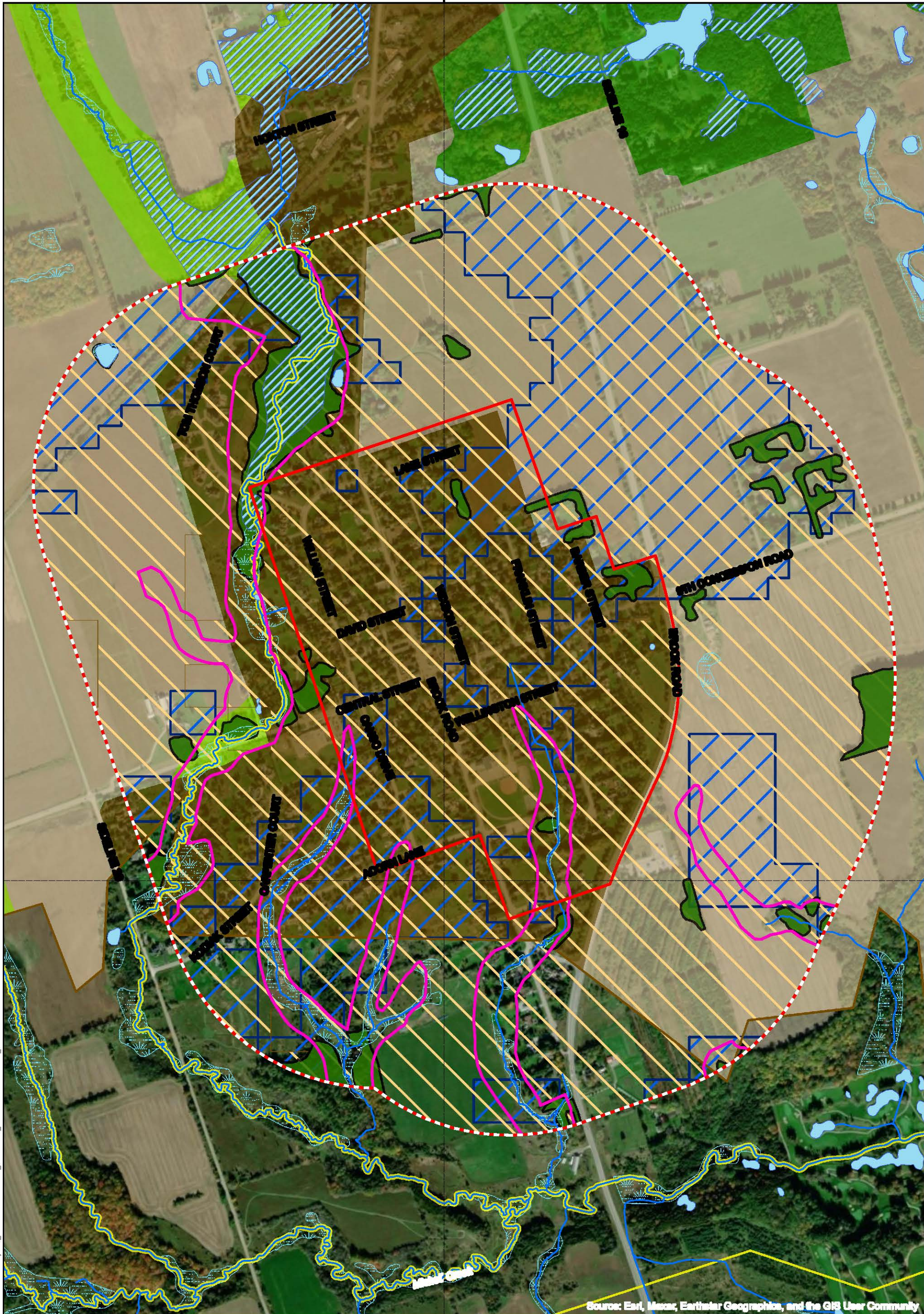
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Consultant File No.
TPB168152S

Figure No.
12

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 2022-03-31
 Plotted: 2022-03-31
 Last Saved By: richard.bortolo
 Last Saved: 2022-03-31



Source: Earl, Messer, Earthstar Geographics, and the GIS User Community

LEGEND <ul style="list-style-type: none"> Study Area Study Area Buffer (500 m) Greenbelt Outer Boundary Oak Ridges Moraine (ORM) Planning Area Oak Ridges Moraine Conservation Plan Natural Core Area (ORMCP, 2022) Natural Linkage Area (ORMCP, 2022) Countryside Area (ORMCP, 2022) Rural Settlement (ORMCP, 2022) 		Key Natural Heritage Features <ul style="list-style-type: none"> Significant Valleyland (Pickering Official Plan, 2022) Significant Woodlands (Pickering Official Plan, 2022) Redside Dace Habitat (DFO, 2022) Provincially Significant Wetlands Unevaluated Wetland Waterbody (Land Information Ontario, 2022) Watercourse (Land Information Ontario, 2022) 		<ul style="list-style-type: none"> Highly Vulnerable Aquifers Significant Groundwater Recharge Area 		NOTES: - Background data provided by Land Information Ontario, DFO, MECP, and City of Pickering Official Plan - Significant Valley Land, Highly Vulnerable Aquifers, Significant Groundwater Recharge Areas and Significant Woodland derived from digitizing			
<p>Datum: NAD83 Projection: UTM Zone 17N</p>								City of PICKERING Claremont Drainage Plan Municipal Class Environmental Assessment	
						PROJECT N°: TPB168152S		FIGURE: 13	
						SCALE: 1:8,250		DATE: November 2022	