

## **1027458 ONTARIO INC.**

# Banwell and McHugh Mixed Use Developments

**Functional Servicing Report** 

# **Table of Contents**

2.0	1.1	Reference Documents	4	
2.0			1	
	Transportation Servicing			
	2.1	Existing Conditions		
	2.2	Proposed Roadways	3	
3.0	Sanitar	4		
	3.1	Existing Conditions	4	
	3.2	Design Criteria	4	
	3.3	Proposed Servicing	5	
4.0	Stormy	6		
	4.1	Background Information	6	
	4.2	Design Criteria	6	
	4.3	Proposed Servicing	7	
	4.4	Parent Drain	7	
5.0	Wateri	8		
	5.1	Existing Conditions	8	
	5.2	Proposed Servicing	8	
6.0	Utilitie	es ·	10	
	6.1	Gas	10	
	6.2	Bell	10	
	6.3	Cogeco	10	
	6.4	MNSi	10	
	6.5	EnWin (Hydro)	10	
7.0	Conclusion		11	
	Tables			
	Table 1: Sanitary Sewer Design Criteria			
	Table 2: Storm Sewer Design Criteria			



### **Appendices**

- A Functional Servicing Plans
- B Sanitary Sewer Analysis



### Introduction 1.0

Dillon Consulting Limited (Dillon) was retained by 1027458 Ontario Inc. to develop a functional servicing strategy for proposed mixed-use developments in the City of Windsor. The proposed developments are located to the north and south of the Banwell Road and McHugh Street intersection, and are bounded by Banwell Road on east limit. The subject site is composed of three individual parcels, which for the purpose of this report are individually referred as the following: "North 'A' Site", "North 'B' Site" and "South Site". Refer to Figure 1.0 and 2.0 in Appendix A for the conceptual site layout. This document outlines the servicing strategy and identifies the supporting studies and related information for the transportation, sanitary, stormwater management, and watermain servicing for the site.

The proposed development "South Site" is 5.35 ha (13.23 acres) and is currently vacant undeveloped land. When developed, the "South Site" will consist four multi-storey residential buildings with a total of 408 residential units, a two-storey business office building with approximately 1860 m2 of commercial space, and a respite home. The "South Site" is bounded on the south by VIA Railway, by McHugh Street to the north and by existing residential units to the west.

The proposed development area of "North 'A' Site" is 1.43 ha (3.54 acres) and is currently vacant undeveloped land. The proposed development will include two, six-storey residential buildings with a total of 156 residential units. The "North 'A' Site" is bounded by Leathorne Street on the south, residential units to the west, and an existing commercial development to the north.

The subject property "North 'B' Site" is 1.66 ha (4.11 acres) in total area and is currently vacant undeveloped land. When developed, it will consist three, six-storey residential buildings with a total of 180 residential units. The "North 'B' Site" is bounded by McHugh Street on the south, Leathorne Street to the north, and existing residential developments to the west.

#### **Reference Documents** 1.1

The following documents and drawings were referenced when completing this study:

- The Corporation of The City of Windsor Development Manual (May 2015);
- MappMyCity Interactive Mapping My Windsor Sewer System;
- Design Guidelines for Sewage Works (MOE, 2008);
- Stormwater Management Planning and Design Manual (MOE,2003);
- Windsor/Essex Region Stormwater Management Standards Manual (ERCA, 2018);
- Design Guidelines and Specifications for Water Main and Water Service Installation (WUC, 2022);
- Lakeview Planning Area Stormwater Management Hydraulic Study (HGS Ltd., 1994);



- Stormwater Management Memo Multi-Unit Residential Development at Banwell-Firgrove intersection (Dillon, 2019);
- Record Drawings Banwell Road Construction Little River Boulevard to Tecumseh Road East (Dillon, 2005);
- Record Drawings West Banwell Road South Neighbourhood Development (Dillon, 1999);
- Record Drawings West Banwell Road Development Phase 7 & 8 (Dillon, 1999);
- Record Drawings Banwell Road Extension Tecumseh Road East to South End of Jarvis Ave. (Dillon, 1997).



# **Transportation Servicing**

#### **Existing Conditions** 2.1

2.0

The subject site currently has no direct access to the municipal roadway. The proposed developments are located north and south of McHugh Street just east of Banwell Road.

#### **Proposed Roadways** 2.2

The proposed primary access point to the "South Site" will be from McHugh Street, on north side along the western property limit; "North 'A' Site" will be from Leathorne Street on the south side; "North 'B' Site" will be from McHugh Street to the south side and from the Leathorne Street on the north side. Leathorne Street will be extended through the site from Questa Drive to Banwell Road as per the City of Windsor standard utility cross section.

The pavement structure of the proposed parking lots will be consistent with geotechnical report recommendations.

A Traffic Impact Study (TIS) for this development is concurrently being completed and will be submitted under separate cover. Any upgrades that may be required to the existing road network that are identified in the report will be incorporated in the detailed design of this development.



# **Sanitary Servicing**

#### **Existing Conditions** 3.1

3.0

Following are the available sanitary sewers near the subject properties. Refer to Figure 1.0 and 2.0 in Appendix A.

- An existing 300mm sanitary sewer located on McHugh Street which flows easterly into a 450mm sanitary sewer on Banwell Road.
- A 450mm sanitary trunk sewer along the eastern property limit of "North 'A' Site" and "North 'B' Site" on Banwell Road.
- A 300mm sanitary stub is provided to the "South Site" along McHugh Street to the north side.
- A 300mm sanitary sewer located on Leathorne Street which flows easterly into the 450mm sanitary sewer on Banwell Road.

#### **Design Criteria** 3.2

The following sanitary sewer design criteria for the site is outlined in Table 1. The design criteria were established from the City of Windsor's Development Manual.

**Table 1: Sanitary Sewer Design Criteria** 

Criteria	City of Windsor Development Manual
Hydraulic Sewer Sizing	Manning's Equation
Minimum Sewer Size (mm) Pipe Material	250 diameter < 450 mm – PVC DR35 Service – PVC DR28
Manning's Roughness Coefficient 'n'	0.013
Velocity: Minimum (m/s) Maximum (m/s)	0.75 3.00
Infiltration Allowance/Peak Extraneous Flow	0.156 l/ha/s
Peaking Factor	Based on Table from Development Manua
Population Densities For: Residential (where # of units are known)	2.2 persons/unit
Average Daily Sewage	0.0042 L/s/cap-day

<sup>\*1.</sup> Design Guidelines for Sewage Works (MOE, 2008)



#### **Proposed Servicing** 3.3

It is proposed that the majority of the sanitary flows from the "South Site" will be conveyed to the 300mm diameter sanitary private drain connection which flows into the existing 300mm diameter sanitary sewer located on McHugh Street. The McHugh main ultimately discharges into the existing 450mm diameter sewer along Banwell Road. Sanitary flows from "North 'A' Site" and "North 'B' Site" will be discharged into the existing 300mm diameter sanitary sewer located on Leathorne Street. The Leathorne Street main ultimately discharges into the existing 450mm sewer along Banwell Road.

The invert elevations, estimated from sewer atlas for the existing sewers and estimated from previously submitted reports and design drawings for the planned sewers, allows for a 2.40m cover at the top end of the internal sewers. All buildings where the bottom of the footings is below the sanitary sewer and the hydraulic grade line is less than 300mm below the basement floor elevation, shall be equipped with a sewer ejector pump.

Due to the increase in density, a Sanitary Sewer Design Sheet was developed to evaluate the sanitary sewer system from the site to the trunk outlet sewer located at Greenpark Avenue and Beverly Glen Drive. Based on the City of Windsor's Development Manual and Design Guidelines for Sewage Works (MOE, 2008), the population density for townhomes is 50 persons/ha and 2.2 persons per unit for multi-storey residential developments. The total peak design flow from the "South Site" is calculated as 19.30 l/s and from "North 'A' and 'B' Site" as 14.45 l/s for a total peak outflow of 33.75 l/s. The analysis indicates all sewers remain below full flow capacity.

The future detailed design of the sanitary sewers and services are to be consistent with the requirements of the City of Windsor and the Ministry of Environment, Conservation and Parks (MECP).



# **Stormwater Servicing**

#### **Background Information** 4.1

4.0

The proposed development lands are currently undeveloped. The existing site drains to the remnants of the Parent Drain to outlet sewers into the McHugh and Banwell storm sewer system. "North 'A' Site" and "North 'B' Site" are included in the catchment area for the 900mm diameter storm sewer on Banwell Road. The "South Site" is included in the catchment area for the sewer on McHugh Street. Sizes range from 675mm to 825mm in diameter across the site. Refer to Figure 1.0 and 2.0 in Appendix A.

The subject parcels have been assessed under existing condition to be conveyed to the storm sewer with a runoff coefficient, 'C' value of 0.35 according to the "Lakeview Planning Area Stormwater Management Hydraulic Study" (HGS Ltd., 1994). The existing sites are located in the Blue Heron Lake drainage area.

#### **Design Criteria** 4.2

The following storm sewer design criteria for this property are outlined in Table 2. The design criteria were established by the "Windsor/Essex Region Stormwater Management Standards Manual".

**Table 2: Storm Sewer Design Criteria** 

Criteria	Windsor/Essex Region Stormwater Management Standards Manual	
Stormwater Runoff	PCSWMM Model	
Hydraulic Sewer Sizing	Rational Method or Hydrodynamic Model	
Sewer Sizing Rainfall Event	5-Year as Per WERSMS 2018	
Minimum Cover Depth (m)	1.07	
Manning's Roughness Coefficient 'n'	0.013	
Velocity:  Minimum (m/s)  Maximum (m/s)	0.80 3.00	
Roof Downspouts	Disconnected (splash to ground)	
Inlet Times: Residential	Per WERSMS	
Runoff Coefficients: Asphalt Covered Area Grass/Landscaping Area Building Area	0.95 0.20 0.95	



Criteria	Windsor/Essex Region Stormwater Management Standards Manual
Sewer Surcharging	Maximum 5-year hydraulic grade line is below road grade

#### **Proposed Servicing** 4.3

The proposed storm sewers will be designed to convey the proposed "North 'A' Site" and "North 'B' Site" runoff to the existing storm sewer on Banwell Road and the proposed "South Site" runoff to the existing storm sewer on McHugh Street. The storm sewers will be sized to have sufficient conveyance for the 1:5year design event peak flows.

The required on-site stormwater storage will be provided by ADS StormTech underground chambers. The peak discharges from the proposed storm sewers to the existing storm sewers on Banwell Road and McHugh Street will be controlled by the orifice plates. Water quality treatment will be provided by OGS units that has sufficient capacity to accommodate the flows from the subject site.

A Stormwater Management Report for this development is concurrently being completed and will be submitted under separate cover. Acceptance of this strategy is to be discussed with the Corporation of The City of Windsor prior to the detailed design.

#### Parent Drain 4.4

The sites and surrounding area were at one time serviced by the Parent Drain that was constructed by the former Township of Sandwich East in the early part of the 1900's. A 1200mm diameter sewer was constructed beneath the VIA Railway and serviced the area south of Tecumseh Road. That area was redirected to an open drain (Parent Relief Drain) located along the south side of the VIA Railway. A portion of the 1200mm diameter sewer remains on the site before the drain returns to an open drain. The drain is cut off with the construction of McHugh Street.

The areas surrounding the site have been urbanized and stormwater conveyed with a closed storm sewer system to stormwater management facilities. With development of the site, the remnants of the Parent Drain will be removed and backfilled. It would be the City's discretion to abandon the drain under Section 84 of the Drainage Act, although it would be considered a formality.



# **Watermain Servicing**

#### **Existing Conditions 5.1**

5.0

The following watermains abut the site and could be available to service the sites. Refer to Figure 1.0 and 2.0 in Appendix A.

- An existing 600mm diameter feedermain along Banwell Road, east of the "South Site". The 600mm diameter watermain reduces to a 400mm diameter watermain northerly from McHugh Street.
- An existing 500mm diameter feedermain along McHugh Street, North of the "South Site". A 200mm diameter stub was brought to the property limit at Questa Drive. The end of the pipe has a fire hydrant attached for flushing purposes.
- An existing 400mm diameter watermain along Banwell Road, east of the "North 'A' Site" and "North 'B' Site".
- An existing 200mm diameter watermain along Questa Drive. A 200mm diameter stub was provided along Questa Drive a Leathorne Street and Banwell Road for future extension.

It is EnWin's policy that services to properties fronting feedermains are not permitted.

#### 5.2 **Proposed Servicing**

Refer to the attached Figure 1.0 and 2.0 in Appendix A which illustrates the proposed watermain servicing. The watermain servicing for the proposed development is as follows:

- "South Site" will be serviced by a 150mm diameter watermain connected to the existing 200mm diameter watermain at the intersection of Questa Drive and McHugh Street.
- A 200mm diameter watermain will be extended to Banwell Road from Questa Drive through the Leathorne Street right-of-way.
- "North 'A' Site" will be serviced by a 150mm diameter watermain connected to the extended 200mm diameter watermain along Leathorne Street.
- "North 'B' Site" will be serviced by a 150mm diameter watermain connected to the extended 200mm diameter watermain along Leathorne Street.

No pressure/flow testing has been completed for these developments. During detailed design, pressure testing of the existing watermain along Banwell Road and McHugh Street may be required to satisfy fire suppression system design.



The detailed design of the watermain services are to be consistent with the requirements of EnWin. Placement of Hydrants for adequate fire protection will be completed during the detailed design in accordance with the Ontario Building Code.



# 6.0 Utilities

### *6.1* Gas

Existing natural gas service is available along McHugh Street, and Banwell Road. Coordination with Enbridge will be provided during detail design to confirm loading and supply points to the proposed buildings.

### 6.2 Bell

Bell has aerial services available along McHugh Street and Banwell Road. During detailed design, additional consultation will be held with utility owner to confirm site and internal servicing requirements.

### 6.3 Cogeco

Cogeco has aerial services available along McHugh Street and Banwell Road. During detailed design, additional consultation will be held with utility owner to confirm site and internal servicing requirements.

### 6.4 MNSi

MNSi has aerial services available along McHugh Street and Banwell Road. During detailed design, additional consultation will be held with utility owner to confirm site and internal servicing requirements.

### 6.5 EnWin (Hydro)

Existing overhead hydro is available along Banwell Road, Coordination with EnWin will be provided during detailed design to confirm servicing to the proposed buildings.



# 7.0 Conclusion

The review of the adjacent services has been found to be sufficient for the proposed development. The design of the proposed internal services will be finalized during detailed design.

Yours sincerely,

### **DILLON CONSULTING LIMITED**

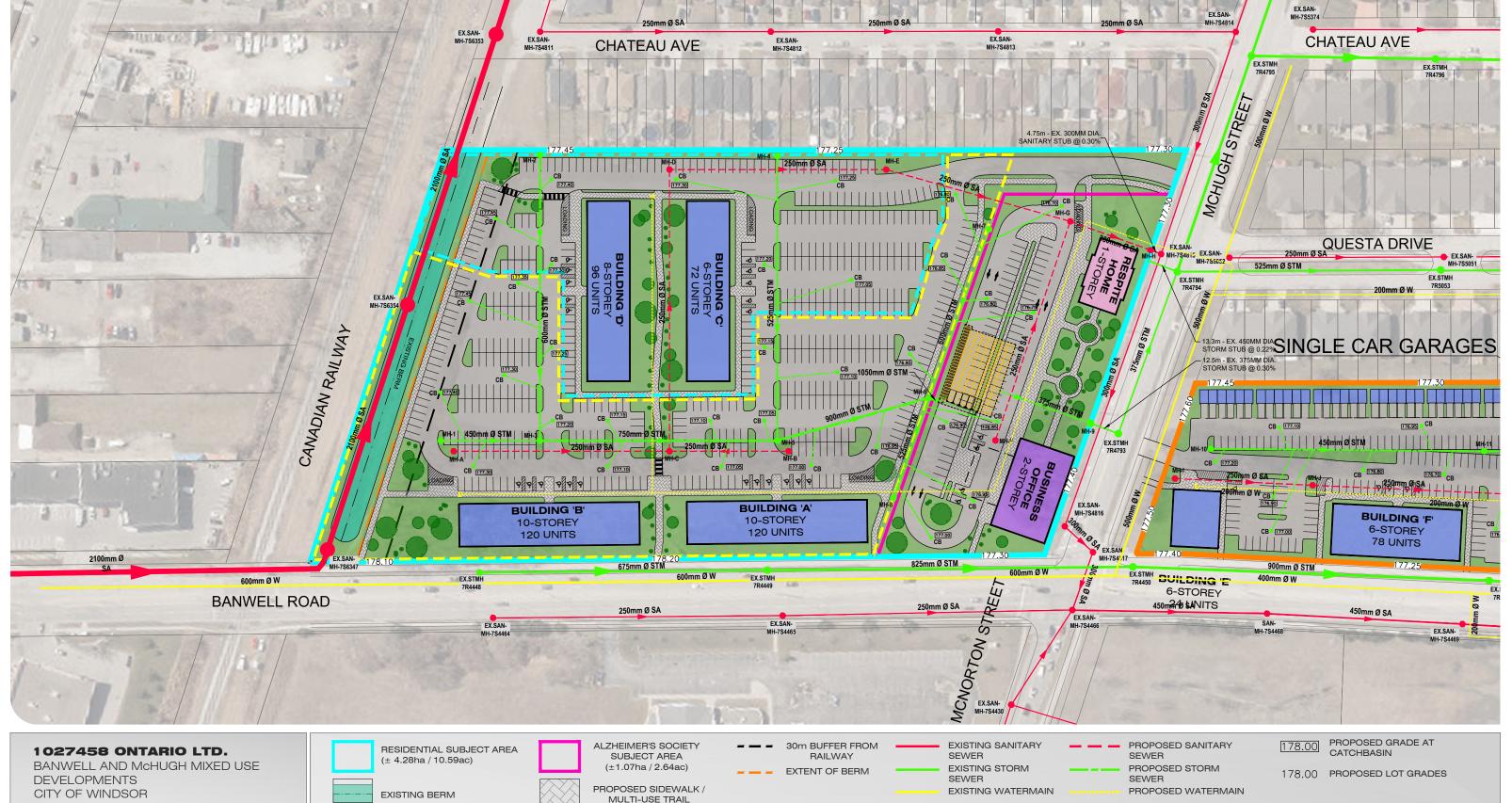
Robert Filipov, P.Eng. Project Engineer Dhruv Moradiya, EIT

Civil Designer

# **Appendix A**

**Functional Servicing Plans** 





CONCEPTUAL SERVICING PLAN FIGURE 1.0 FUNCTIONAL SERVICING REPORT



SOURCE: THE COUNTY OF ESSEX INTERACTIVE MAPPING (2021)

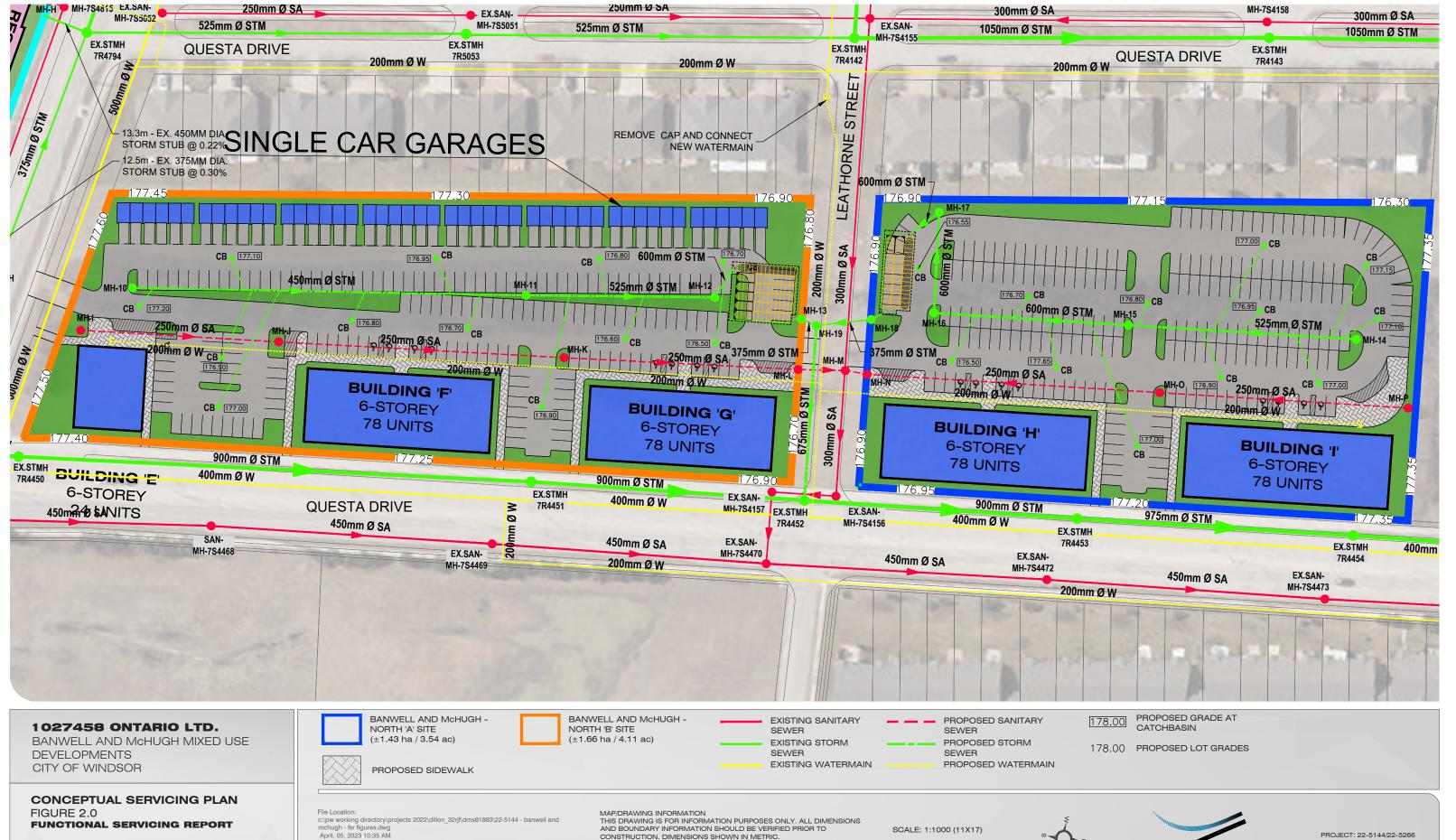
MAP/DRAWING INFORMATION
THIS DRAWING IS FOR INFORMATION PURPOSES ONLY. ALL
DIMENSIONS AND BOUNDARY INFORMATION SHOULD BE
VERIFIED BY AN O.L.S PRIOR TO CONSTRUCTION.
CREATED BY: MRU/DM
CHECKED BY: KDT/RJF
DESIGNED BY: MRU/DM

SCALE: 1:1500 (11X17)





PROJECT: 22-5144/22-5266
STATUS: DRAFT
DATE: 04/05/2023



CREATED BY: MRU/DM

CHECKED BY: KDT/RJF DESIGNED BY: MRU/DM PROJECT: 22-5144/22-5266

STATUS: DRAFT

DATE: 04/05/2023

# **Appendix B**

**Sanitary Sewer Analysis** 



### BANWELL AND MCHUGH MIXED USE DEVELOPMENTS **SANITARY SEWER DESIGN SHEET**

Project Name: Banwell and McHugh Mixed Use Developments

Firegrove Dr

7S4314 7S4474

Banwell Rd 7S4474 7S4476

0.0

0.0

0.00

0.30

480

9.60

5688 93.51 4.500

4.500

9.072

107 510

1.498

14 588

10.57

122.10

36.66

166.56

18.3

86.2

250

525

0.38

0.15

70

171.709

171 639

171.639

171 510

0.070

0 129

0.75

0.77

176.050

176 350

4.085

4 116

4.455

3 845

Outlet Invert Elevation= 171.510 Project No: 225144 & 225266 The Peaking Factor was derived: Residential Average Daily Flow= 363 L/Cap.D (Y or N) Using Harmon Formula=

Basement Floor Elevation = Mannings 'n'= 0.013 Peak Extraneous Flow= 0.156 L/Ha.S From a Table= City of Windsor Total Area= 93.510 Hydraulic Grade Line Cover = PIPE DIA. ROAD/STN FROM TO POP AREA POP ARE/ FACTOR (q)Q FLOW Q(i) FLOW Q(d) CAPACITY LENGTH Thickness SLOPE LOWER FALL VELOCIT DROP IN LOWER Ground Elevation Cover @ Up MH Cover @ Low MH MANHOLE (m) Upper MH McNorton St 7S5391 7S5390 2.90 2.90 2.741 0.452 52.97 87.4 0.30 174.595 174.332 0.262 0.75 177.700 3.201 145 4.500 3.19 McNorton St 7S5390 7S5389 140.0 2.80 285 4.500 0.889 52.97 86.0 300 174.332 174.074 0.258 0.75 177.840 5.387 6.28 0.30 3.201 3.229 McNorton St 7S5389 7S5388 2.90 430 8.60 8.127 1.342 9.47 52.97 87.5 300 174.074 173.812 0.263 0.75 177.610 3.681 4.500 0.30 3.229 McNorton St 7S5388 7S5387 140.0 2.80 570 11.40 4.500 10.773 1.778 12.55 52.97 87.1 300 0.30 173.812 173.551 0.261 0.75 177.800 3.681 3.742 McNorton St 7S5387 7S4894 135.0 2.70 705 14 10 4 500 13 325 2 200 15.52 82.24 104 1 375 11 0.22 173 551 173 322 0.229 0.74 177 600 3 663 3 942 McNorton St 7S4894 7S4432 140 0 2.80 845 16 90 4 500 15 971 2.636 18.61 82.24 66.8 375 11 0.22 173 322 173 175 0 147 0.74 177 650 3 942 3 839 965 375 3.841 7S4432 7S4891 18.239 14.3 0.072 McNorton St 120.0 1.25 18.15 4.500 2.831 21.07 123.98 173,175 173.103 177,400 3.839 11 0.50 1.12 7S4891 7S4431 130.0 1095 173,103 172.916 0.74 177.330 McNorton St 2.60 20.75 4.500 20.696 3.237 23.93 82.24 375 0.22 0.187 3.841 3.918 85.0 11 1215 McNorton St 7S4431 7S4887 120.0 22.00 4.500 22.964 26.40 78.41 15.0 375 172.916 172.886 0.030 0.71 177.220 3.918 4.178 1.25 3.432 11 0.20 McNorton St 7S4487 7S4430 140.0 2.80 1355 24.80 4.500 25.610 3.869 29.48 78.41 119.9 375 11 0.20 172.886 172.646 0.240 0.71 177.450 4.178 4.768 7S4430 7S4466 175.0 6.90 1530 4.500 28.917 4.945 33.86 375 172.646 172.502 0.76 177.800 4.712 McNorton St 31.70 84.09 63.0 11 0.23 0.145 4.768 Banwell Rd 7S4464 7S4465 0.0 0.60 0 0.60 4.500 0.000 0.094 0.09 37.61 122.1 250 0.40 173.478 172.990 0.488 0.77 178.050 4.316 4.604 Banwell Rd 7S4465 7S4466 74.8 0.30 75 0.90 4.500 1.414 0.140 1.55 37.61 122.1 250 0.40 172.990 172.502 0.488 0.77 177.850 4.604 4.842 McHugh St 785500 785498 90 N 1.80 90 1.80 4 500 1 701 0 281 1 98 53 84 77 N 300 0.31 174 826 174 587 0.239 0.76 177 300 2 167 2 656 McHugh St 7S5498 7S5496 145.0 2.90 235 4.70 4.500 4.442 0.733 5.17 54.70 86.6 300 0.32 174.587 174.310 0.277 0.77 177.550 2.656 2.813 7S5496 7S5338 385 7 70 4 500 7 277 53.84 85.9 300 174 310 174 044 2 813 McHuah St 150 0 3.00 1 201 8.48 0.31 0.266 0.76 177 430 2 959 7S5338 7S5285 150.0 535 4.500 11.78 174.044 0.241 0.72 177.310 McHuah St 3.00 10.70 10.112 1.669 51.17 86.2 300 0.28 173.803 2.959 3.100 7S5285 7S4809 685 13.70 12.947 2.137 52.07 McHuah St 150.0 3.00 4.500 15.08 86.7 300 0.29 173.803 173.551 0.251 0.74 177.210 3.100 3.542 McHugh St 7S4809 7S4814 145.0 2.90 830 16.60 4.500 15.687 18.28 52.97 300 173.551 173.265 0.75 177.400 3.542 3.718 2.590 95.4 0.30 0.286 7S4814 7S4815 985 300 0.296 4.304 McHugh St 19.70 4.500 18.617 3.073 21.69 52.97 98.8 0.30 173.265 172.969 0.75 177.290 3.718 STUB 7S4815 5.36 977 5.36 4.500 19.30 0.89 177.300 4.004 4.304 Proposed Dev. 976.8 18.461 0.836 62.67 0.42 172.989 172.969 0.020 McHugh St 7S4815 7S4816 0.70 1962 25.76 4.500 37.078 4.019 41.10 52.97 121.8 300 0.30 172.969 172.603 0.365 0.75 177.580 4.304 4.750 0.0 McHugh St 7S4816 7S4817 0.00 1962 25.76 4.500 37.078 4.019 41.10 53.84 16.1 300 0.31 172.603 172.553 0.050 0.76 177,660 4.750 4.840 McHugh St 7S4817 7S4466 0.0 0.00 1962 25.76 4.500 37.078 4.019 41.10 43.25 25.9 300 0.20 172.553 172.502 0.052 0.61 177,700 4.840 4.791 0.131 177 600 Banwell Rd 754466 754468 0.30 3567 58.66 67 408 172.502 172 370 0.72 4 466 0.0 4 500 9 151 76 56 114 04 82 1 450 0.16 4 584 7S4468 7S4469 3567 Banwell Rd 58.86 64 0.0 0.20 4.500 67.408 9.182 76.59 139.67 82.5 450 0.24 172.370 172.172 0.198 0.88 177.350 4.466 4.414 7S4469 7S4470 0.0 0.30 3567 59.16 4.500 67.408 172,172 172.059 0.113 0.67 177,100 4.414 4.527 Banwell Rd 9.229 76.64 106.68 80.9 450 64 0.14 7S4149 7S5363 1.60 173.234 0.264 0.77 176.700 3.393 Leathorne St 4.500 0.250 1.76 82.5 0.32 172.970 Leathorne St 7S5363 7S6774 1.50 155 3.10 4.500 2.930 0.484 3.41 50.25 88.1 300 0.27 172.970 172.732 0.238 0.71 176.670 3.393 3.661 7S6774 7S4155 1.90 250 5.00 4.500 5.51 52.07 93.2 172.732 172.462 0.74 3.831 Leathorne St 4.725 0.780 0.270 176.700 Leathorne St 7S4155 MH-M 145.0 2.90 395 7.90 4.500 7.466 1.232 8.70 52.97 90.0 300 0.30 172.462 172.192 0.270 0.75 176.600 3.831 4.461 North A Site MH-N MH-M 343.2 1.43 343 1 43 4 500 6 486 0.223 6.71 56.39 15.0 300 0.34 172.243 172.192 0.051 0.80 176 800 4.250 4.461 North B Site MH-L MH-M 396.0 1.66 396 1.66 4.500 7 484 0.259 7.74 37.61 49.9 250 0.40 172.392 172.192 0.200 0.77 176,480 3.832 4.512 Leathorne St MH-M 7S4156 0.0 0.20 1134 11 19 4 500 21 436 1 746 23 18 38 68 20.5 300 0.16 172.192 172 159 0.033 0.55 176 960 4 461 4 824 1134 37.61 0.77 Leathorne St 7S4156 7S4157 0.0 1 66 12 85 4 500 21 436 2 005 23.44 15.0 250 0.40 172 159 172 099 0.060 177 290 4 875 4 895 1134 4.734 Banwell Rd 7S4157 7S4470 0.00 12.85 4.500 21.436 2.005 23.44 38.68 25.2 300 0.16 172.099 172.059 0.040 0.55 177.250 4.844 Banwell Rd 7S4470 7S4472 0.0 0.20 1134 13.05 4.500 21.436 2.036 23.47 110.42 81.9 450 0.15 172.059 171.936 0.123 0.69 177.100 4.527 4.450 Banwell Rd 7S4472 7S4473 0.20 1134 13.25 4.500 21.436 23.50 117.55 450 0.17 171.936 171.799 0.74 176.900 4.307 0.0 2.067 80.9 0.138 4.450 4701 72.71 83.8 450 0.159 Banwell Rd 7S4473 7S4474 0.0 0.30 4.500 88.845 11.343 100.19 124.27 0.19 171.799 171.639 0.78 176.620 4.307 4.197 7S5615 7S5637 175.0 3.50 175 3.50 4.500 3.308 0.546 3.85 49.31 90.0 300 0.26 172.964 172.730 0.234 0.70 176.700 3.429 3.563 Firegrove Dr Firegrove Dr 7S5637 7S5266 1.90 270 5.40 4.500 5.103 0.842 5.95 50.25 40.2 300 0.27 172.730 172.622 0.109 0.71 176.600 3.563 3.571 Firegrove Dr 7S5266 7S5636 90.0 1 80 360 7.20 4 500 6 804 1.123 7.93 48.35 48 1 300 0.25 172.622 172.501 0.120 0.68 176 500 3.571 3 492 Firegrove Dr 785636 785616 130.0 2.60 490 9.80 4 500 9.261 1.529 10.79 52.07 93.0 300 0.29 172.501 172.232 0.270 0.74 176.300 3 4 9 2 3.611 Firegrove Dr 7S5616 7S5618 0.0 0.30 490 10.10 4.500 9.261 1.576 10.84 53.84 55.2 300 0.31 172.232 172.060 0.171 0.76 176,150 3.611 3.533 490 Firegrove Dr 785618 785620 0.0 0.00 10 10 4 500 9 261 1 576 10.84 52.97 96.9 300 0.30 172 060 171 770 0.291 0.75 175 900 3 533 3 973 1.576 171.719 Firegrove Dr 7S5620 7S5621 0.0 0.00 490 10.10 4.500 9.261 10.84 50.25 18.8 300 0.27 171,770 0.051 0.71 176.050 3.973 3.974 Firegrove Dr 7S5621 7S4474 508 10.90 4.500 9.594 1.700 24.9 300 171.719 171.639 0.080 0.77 3.974 4.404 17.6 0.80 11.29 54.70 0.32 176.000 Firegrove Dr 7S4311 7S4312 3.70 185 3.70 4.500 3.497 0.577 4.07 37.61 80.2 0.40 172.614 172.293 0.321 0.77 175.850 2.980 3.301 7S4312 7S4313 295 5.90 4.500 Firegrove Dr 110.0 2.20 0.920 6.50 35.68 78.4 250 0.36 172.293 172.011 0.282 0.73 175.850 3.301 3.583 Firegrove Dr 7S4313 7S5668 110 0 2 20 405 8.10 4.500 7.655 1.264 8.92 39.00 54.0 250 0.43 172.011 171.779 0.232 0.79 175.850 3.583 3.765 Firegrove Dr 7S4557 7S4314 1.50 480 9.60 4.500 9.072 1.498 10.57 37.14 18.0 250 0.39 171.779 171.709 0.070 0.76 175.800 3.765 4.085