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Prepared for:

First Capital REIT

Rev. No.	Date	Description
0	November 11, 2024	Issued for Official Plan Amendment
		and Rezoning (ZBA) Application

Project No.: 22-010



# **Executive Summary**

# **Prospective Development Site**

- The subject Site is located in the *Toronto & East York* District of Toronto, Ontario.
- The site's area is approximately 0.77 Ha and presently comprises a one-storey grocery store building with paved asphalt parking lot areas.
- The Owner is proposing to develop the Site as a mixed-use development comprising one tower and one midrise building, sharing a common podium.

#### Watermains & Water Servicing

- There are existing 150mm-dia. And 300mm-dia. Watermains within Danforth Ave., adjacent to the site's frontage.
- It has been determined that the existing 150mm watermain is sufficient to service the development and domestic/fire service connections are proposed to that main.

# Sanitary Servicing & Combined Sewers

- There are existing parallel 300mm-dia. and 450mm-dia. combined sewers within Danforth Ave., adjacent to the Site's frontage.
- The Site is preliminarily serviceable to the combined sewers in the adjacent municipal R.O.W.
- Sanitary sewer connections are proposed to connect to the existing 300mm combined sewer.
- Combined sewer capacity & Procedure F-5-5 are addressed acceptably in the development of the site.

#### Storm Servicing, Storm Sewers & Stormwater Management

- There are no separated storm sewers within the municipal R.O.W. adjacent to the Site.
- It is proposed to service the Development to the existing combined sewers, to which the subject site presently (pre-development) drains.
- Stormwater management quality, quantity and retention criteria are satisfied.

#### Foundation Drainage & Groundwater

• The proposed building will be constructed in a watertight manner, without drained foundations.



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# Appendix A

- Architectural Site Plan by Superkül Architects
- Architectural Statistics by Superkül Architects

# Appendix B

Dye Test Investigation by Aquaflow Technologies

# Appendix C

• City Engineering Records – City of Toronto Drawing No. D-110-1



# 1. Introduction & Background

# a. Introduction

civilGo Engineering Inc. was retained by First Capital REIT on behalf of FCHT Holdings (Ontario) Corporation, to prepare a *Functional Servicing and Stormwater Management Report* for submission to the City of Toronto in support of an Official Plan Amendment and Zoning Bylaw Amendment Submission. The proposed Development for which the Submission is being made comprises two Buildings (A & B) within the subject lands, 2451-2495 Danforth Avenue, in Toronto, Ontario. The following report has accordingly been prepared to provide discussion and engineering analysis pertaining to the site servicing, grading and stormwater management for the proposed Development.

# b. Subject Lands Description

The subject Site has municipal addresses 2451-2495 Danforth Avenue, Toronto, Ontario and postal code M4C 1L1. The Site's area is 0.77 Ha.

Presently, site comprises an existing one-storey commercial building ('Sobeys' food store), which occupies approximately the middle of the site, as well as adjacent ground-level asphalt parking lots. Refer to the *Existing Site Summary Figure* on the following page for the existing subject lands and adjacent infrastructure.

The site is bounded by Danforth Avenue to the north, Westlake Avenue to the west, detached houses to the south and existing commercial buildings to the east.

# c. Proposed Development Description

It is proposed to demolish the existing one-storey commercial building ('Sobeys' food store) and adjacent ground-level asphalt parking lots. It is proposed to construct in their place a Development comprising two mixed-use Buildings (A & B), Building A comprising 35-storeys and Building B comprising 13-storeys, sharing a two-storey podium. The Development will comprise a two-level below-grade parking structure. A 0.0354 Ha P.O.P.S. (Privately-Owned Public Space) is proposed at the Site's eastern area.

Refer to the architectural Site Plan and Statistics by Superkül Architects in Appendix A for the proposed Development layout and specifics as referenced herein.

# d. Report Scope and Terms of Reference

The scope of this Report is outlined below. The scope has been reviewed for compliance with the Terms of Reference for both Servicing Reports and Stormwater Management Reports as given in the City of Toronto's Website *Application Support Material: Terms of Reference*.

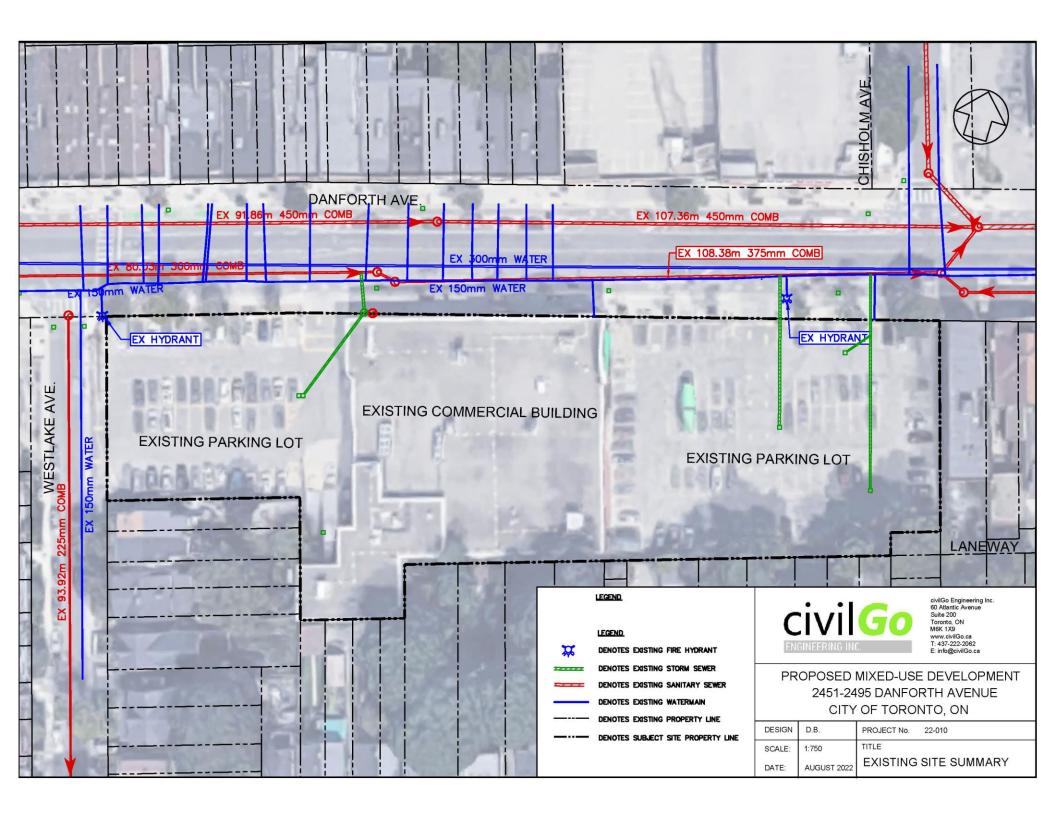
This report has, further, been prepared in accordance with the Terms of Reference given by the City of Toronto's *Design Criteria for Sewers and Watermains* (January 2021) as well as the City of Toronto's *Wet Weather Flow Management Guidelines* (November 2006).

The scope of this report, in general, comprises the following.

22-010-FSR SWMR-2451Danforth-Rev0.5



- Obtaining the most recent engineering records (Plan & Profile Drawings) as well as Digital Mapping Owners' Group (DMOG) drawing from the City of Toronto.
- Providing support to the Owner in undertaking a Subsurface Utility Engineering (SUE)
   Investigation to verify existing infrastructure.
- Reviewing all background information pertaining to existing water infrastructure, topography and related characteristics of the subject Lands.
- Evaluating the capacity of existing sewer and water mains to support the proposed Development of the subject Site.
- Provide stormwater management analysis and designs whereby the stormwater quality and quantity objectives given by the *Wet Weather Flow Management Guidelines* are addressed.





# 2. Watermains & Water Servicing

# a. Water Servicing Criteria

The City of Toronto's site servicing policy typically requires all buildings/podiums/towers on a development to have separate respective water service connections to the street to which that component of the development fronts.

Design criteria pertaining to water servicing is given in Chapter 4 of the City of Toronto's *Design Criteria* for Sewers and Watermains (January 2021). The criteria that are observed herein is as follows.

- Per-capita average domestic water demand (multi-unit development): 190 L/cap/day
- Peaking Factors:
  - o Peak Hour: 2.50 x average day demand
  - Maximum Day: 1.30 x average day demand
- Fire Flow Demand: is given by the calculation as per the manual *Water Supply for Public Fire Protection* by the *Fire Underwriters' Survey* (1999).
- Minimum residual pressure in maximum demand scenario (Fire Flow Demand + Max. Day) is 140 kPa.

Combined domestic water and fire service connections are to be installed as per City-standard drawings, including T-1104.02-3.

# b. Existing Water Mains

The existing Streets adjacent to the Site are presently understood to comprise the following watermains, adjacent to the Site's frontage.

- Danforth Avenue: 150mm watermain (within the south side of the R.O.W., south of the following 300mm watermain).
- Danforth Avenue: 300mm watermain (within the south side of the R.O.W., north of the above 150mm watermain).
- Westlake Avenue: 150mm watermain (within the east side of the R.O.W.).

There are two existing Fire Hydrants at the Site's frontage to Danforth Avenue, both connected to the 150mm watermain.

A hydrant flow test was conducted on the 150mm watermain and the test report is provided in the following pages. The testing was completed in accordance with NFPA 291: Recommended practice for Fire Flow Testing and Marking of Hydrants.



# c. Proposed Water Servicing

It is proposed to service each of the two buildings (Building A and Building B) with separate respective domestic water service connections and fire service connections. Each of Building A and Building B is proposed to be serviced by a 200mm fire service connection with branch 150mm domestic water connection. Building A, which is greater-than 84m in height, additionally has a second 200mm fire service connection to the second watermain within Danforth Ave., in accordance with OBC 3.2.9.7. (4). The Commercial Component in the Podium, further, will have a separate respective 100mm-dia. domestic water connection. Refer to the Functional Servicing Plan for proposed domestic water and fire service connections.

# d. Water Demand & Existing System Adequacy

The domestic water demand (using average-day, peak-hour and max.-day peaking factors) as well as fire flow demand, are summarized as follows.

It is evident, as per the below hydrant flow test reports, that the available flow at the minimum residual pressure of 140 kPa in the Danforth Ave. watermain is **3056** USGM, which is greater than the maximum demand, **2956.6** USGM (Fire Flow + Max. Day Demand), therefore the existing Danforth Ave. 150mm watermain is sufficient to service the proposed Development. No watermain infrastructure improvements are required.

**Table 1 - Water Demand Summary** 

	Average Day Demand (ADD) (Pop'n* x 190 L/c/d)	Max. Day Demand (MDD) (1.3x ADD)	Peak Hour Demand (PHD) (2.5xADD)	Fire Flow Demand	Required Water Demand (Fire Flow Demand + MDD)
Prop Building A	1.45 L/s 22.98 USGM	1.89 L/s 29.95 USGM	3.63 L/s 57.53 USGM		
Prop Building B	0.93 L/s 14.74 USGM	1.20 L/s 19.02 USGM	2.32 L/s 36.77 USGM		
Prop Commercial Building	0.08 L/s 1.27 USGM	0.10 L/s 1.43 USGM	0.19 L/s 2.85 USGM		
Total	2.45 L/s 39.00 USGM	3.19 L/s 50.56 USGM	6.14 L/s 97.32 USGM	183.3 L/s 2906 USGM	186.5 L/s 2956.6 USGM

<sup>\*</sup>Population is given in Table 2, below

The fire flow demand calculation is provided on the following page. The following assumptions were made in the Fire Flow Demand calculation.

- The proposed buildings are of reinforced concrete construction.
- The proposed buildings will be sprinklered and the sprinklers will be fully monitored according to NFPA 13.
- The proposed buildings' contents (residences and retail) will be non-combustible in nature.
- Proposed building floor areas are as given in the architectural statistics in Appendix A



#### **Domestic Water Demand Flow Calculation Sheet**

Project: 2451-2495 Danforth Avenue, Toronto, ON - Proposed Mixed-use Development

 Project No.:
 22-010

 Date:
 Oct 2024

 By:
 MP



		Propose	d Residen	tial Water	Flows	Prop. I	Prop. Non-Residential Water Flows				Total Flows		
Development Component	I Studio   2BR Unit   3BR Unit   4E		4BR Unit	Total Residential Population	Instit'l Floor Area GFA	Commercial/ Retail Floor Area GFA	Non-Residential Population	Total Proposed Population	Average Day Demand (ADD)	Max. Day Demand (MDD) (1.3ADD)	Peak Hour Demand (PHD) (2.5ADD)		
	(Units)	(Units)	(Units)	(Units)	(Persons)	(m²)	(m²)	(Persons)		(L/s)	(L/s)	(L/s)	
Prop Apt Bldg A	246	96	37	0	661		0.0	0.0	661	1.45	1.89	3.63	
Prop Apt Bldg B	159	56	25	1	421		0.0	0.0	421	0.93	1.20	2.32	
Prop Comm'l	0	0	0	0	0		3197.3	35.2	35	0.08	0.10	0.19	
			•				•						

Reference Sanitary Flows as per Design Criteria for Sewers and Watermains (City of Toronto, January 2021)

Residential Unit Population:

1BR = 1.4 person/unit

2BR = 2.1 person/unit

3BR = 3.1 person/unit 4BR = 3.7 person/unit Non-Residential Unit Population:
Office = 3.3 person/100m<sup>2</sup> GFA

Commercial/Retail = 1.1 person/100m<sup>2</sup> GFA

Institutional = GFA(m2) x 1 bed/30m2 x 1 person/bed

Unit Water Demand = 190 L/cap/day



#### **Fire Flow Demand Calculation**

as per Water Supply for Public Fire Protection, 1999 (Fire Underwriters' Survey)

F	Project:	2451-2495 Danforth Avenue, Toronto, ON
F	Project No.:	22-010
[	Date:	Oct 2024

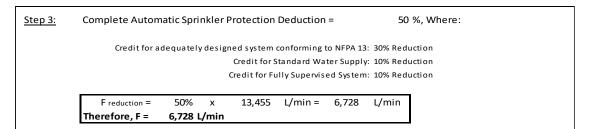
Fire Flow is given by the following calculation:

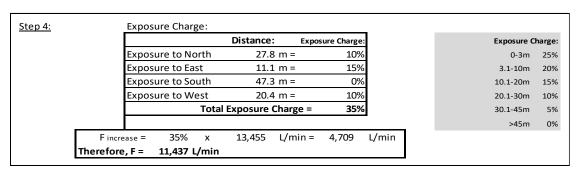
 $F = 220C\sqrt{A}$ 

- the required fire flow in litres per minute.
  coefficient related to the type of construction.
  = 1.5 for wood frame construction (structure essentially all combustible).
  = 1.0 for ordinary construction (brick or other masonry walls, combustible floor and interior).
  = 0.8 for non-combustible construction (unprotected metal structural masonry or metal walls).
- = 0.6 for fire-resistive construction (fully protected frame, floors, roof).

Step 1:	$F = 220C\sqrt{A}$ = 15,830 L/Min	Building A	Area, 'A' =
	<b>F = 4181.73 USGPM</b> Where:	1	3987.9 m²
		2	1476.8 m²
	Type of Construction Factor, 'C' = 0.6	3	2425.8 m²
	Wood Frame Construction: 1.5	4	2245.3 m²
	Ordinary Construction: 1.0	5	2193.6 m²
	Non-Combustible Construction: 0.8	6	2193.6 m²
	Fire Resistive Construction: 0.6	7	2193.6 m²
		8	2193.6 m²
	Vertical Openings & Exterior Vertical Connections Adequately Protected?:	O 9	2193.6 m²
		10	2193.6 m²
1		'A'=	14381.05 m <sup>2</sup>

Step 2:	Occupancy Hazard Reduction =	-15 %	
			Where % Reduction =
	F reduction = -15% x	15,830 L/min = -2,374 L/n	nin Non-Combustible -25%
	Therefore, F = 13,455 L/mir	1	Limited Combusible -15%
			Combustible 0%
			Free Burning +15%
			Rapid Burning +25%





Therefore:	F =	11,437 L/min
	F =	11,000 L/min (Rounded to nearest 1,000 L/min)
	F =	183.3 L/s
	F=	2906 USGPM





## GENERAL INFORMATION:

PROJECT ID PROJECT NAME BUILDING ADDRESS 2451 Danforth Ave Daniel Bancroft 2451 Danforth Ave Tornto, Ontario TESTED B'AA

DATE 2024-04-24

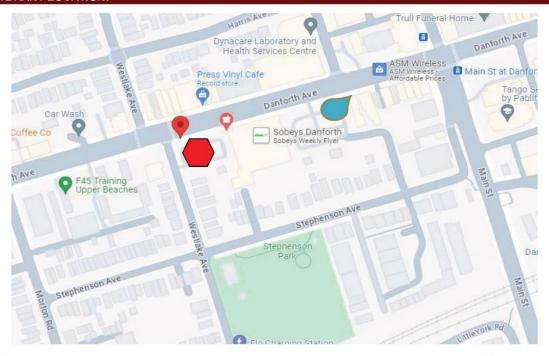
TIME 12:30:00 PM

# WATER MAIN INFORMATION:

MAIN SIZE / MATERIAL CONFIGURATION

Looped

# **HYDRANT LOCATION:**



8



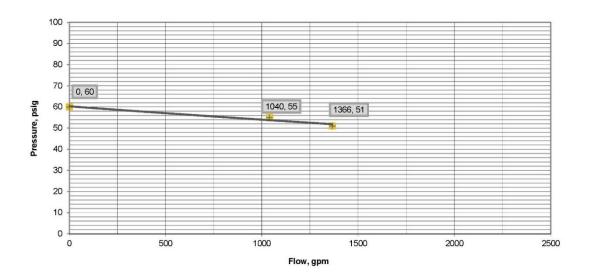
LEGEND:





# FINAL RESULTS:

Test #	Number	Orifice	Pitot	Equivlnt	Total	Projected	Gau	Discharge	
	of	Size (in)	Reading	Flow	Flow	flow at	ge	Coefint	
	Outlets		(psig)	(usgpm)	(usgpm)	20psi	Pres		
			2000 2000		37 333 333	(usgpm)	sure		
Static	N/A	N/A	N/A	N/A	0	N/A	60	N/A	
1	1	2.47	51	1040	1040	3196	55	8.0	
2	2	2.47	22	683	1366	3056	51	0.8	





# 3. Sanitary & Combined Sewers

# a. Criteria & Terms of Reference

The City of Toronto's site servicing policy typically requires all buildings/podiums/towers on a development to have separate respective sanitary service connections to a municipal sewer in the street to which that component of the development fronts.

Sanitary servicing criteria is given in Chapter 2 of the City of Toronto's *Design Criteria for Sewers and Watermains* manual (January 2021). The following sanitary sewage flow-calculation criteria are applied in this report as given in the City's manual.

- Per-capita average sanitary sewage flow: 450 L/cap/day (for the design of new sewers & sewer connections)
- Per-capita average sanitary sewage flow, for the analysis of existing sewer systems:
  - Residential population: 240 L/cap/day
  - Non-Residential population: 250 L/cap/day
- Unit population (Residential) Bachelor & 1-B Units = 1.4 person/unit; 2-B Units = 2.1 person/unit; 3-B Units = 3.1 person/unit; 4-B Units = 3.7 person/unit; single-family = 3.5 person/unit; townhouse = 2.7 person/unit.
- Unit population (Non-residential) Office = 3.3 person/100m<sup>2</sup> GFA; Commercial/Retail = 1.1 person/100m<sup>2</sup> GFA
- Inflow & Infiltration Flows (I&I) Originating from Subject Site = 0.26 L/s/Ha
- Peaking Factor given by Harman Equation

Where a development project is in an area serviced by Combined sewers (rather than separated sanitary sewers) – design criteria is given by the foregoing City manual and the Province of Ontario's *Procedure F-5-5 – Determination of Treatment Requirements for Municipal and Private Combined Sewers*. These criteria generally require development projects in such sewer sheds not to compound or increase the risk of Combined Sewer Overflow events by a proposed development.

# b. Existing Sanitary & Combined Sewers

There are no separated sanitary sewer mains in the area of the subject site.

The existing Streets adjacent to the Site are presently understood to comprise the following combined sewers, adjacent to the Site's frontage. Refer to the Functional Servicing Plan.

- Within Danforth Avenue, beneath the south side of the street, there is a 300mm-diameter (increasing to 375mm-diameter) vitrified pipe combined sewer flowing easterly. This sewer outlets into a 700mm x 1050mm combined sewer, discussed below.
- Within Danforth Avenue, beneath the north side of the street, there is a 450mm-diameter vitrified pipe combined sewer flowing easterly. This sewer outlets into the same 700mm x 1050mm combined sewer, discussed below.
- Within Danforth Avenue, near the site's northeast corner, a 700mm x 1050mm brick combined sewer commences and flows easterly. Both of the foregoing sewer's discharge into this sewer.



• Within Westlake Avenue, adjacent to the site's west frontage, there is a 225mm-diameter combined sewer which flows southerly.

# c. Basement Flooding Environmental Assessment (BFEA) – Combined Sewers Discussion

The City of Toronto has undertaken a *Basement Flooding Protection Program* to help reduce the risk of flooding by making improvements to the sewer system and overland drainage routes. The intent and scope of the program is to undertake analysis of the City's drainage systems (municipal storm, sanitary and combined sewers) in order to identify system deficiencies and thereby recommend infrastructure improvements.

The program divides the City into 67 different Study Areas for which Basement Flooding Environmental Assessments (EA) have been or will be individually undertaken. Many of the study areas have been completed presently as given in the City of Toronto's Basement Flooding Protection Program Map.

The City's criteria typically requires Functional Servicing Reports prepared in support of Development applications to review and address the conclusions and recommendations of the Basement Flooding EA, where complete, with respect to the proposed Development's drainage.

The subject proposed Development of 2451-2495 Danforth Avenue falls within BFEA Study Area 32, which is complete. The completed EA Report is titled *Investigation of Chronic Basement Flooding* (Eastern Beaches Area 32) by Genivar and dated May 2012.

The following comments are provided with respect to the conclusions of the EA Report, pertaining to combined sewers and sanitary drainage. Refer to Section 4., below, for comments pertaining to storm sewers.

- The EA Report identifies the performance of the combined sewer system in the various design storm events. The Report shows that the combined sewer system presently operates acceptably and does not recommend improvements to the combined sewers adjacent to the site.
- Figure 6.6.a., 2-Year Design Storm Combined and Sanitary Sewer System, in the EA Report shows that the combined sewer segments adjacent to the site's frontages are flowing with no surcharge in the pipes (with one exception) (in the 2-year storm) and that the freeboard (or depth from grade to surcharge water elevation) is greater than 1.8m below-grade in all Combined Sewer Maintenance Holes adjacent to the Site's frontage.
- Figure 9.1, *Preferred Solutions, Cluster 1*, in the EA Report does not recommend any improvements within the combined or storm sewers near the subject Site.

Given the above discussion, no sanitary/combined sewer infrastructure improvements are required as part of this development on account of the Basement Flooding EA's recommendations.



# d. Proposed Sanitary Servicing & Sanitary Flows

It is proposed to service each of the two proposed Buildings (Building A and Building B) and the Commercial Podium with a separate respective 200mm sanitary sewer connection to the existing combined sewer within Danforth Avenue. Refer to the Functional Servicing Plan for the proposed services.

The proposed Development's sanitary flows are summarized as follows. Detailed sanitary flow calculations are provided on the following page.

Table 2 - Proposed Sanitary Flows Summary

	Total Proposed Population	Residential Sanitary Flows	Non-Residential Sanitary Flows	Inflow & Infiltration (I&I) Flows	Total Proposed Sanitary Flows
Prop Building A	661	13.5 L/s	-	0.061 Ha	13.47 L/s
Prop Building B	421	8.80 L/s	-	0.124 Ha	8.84 L/s
Prop Commercial	35	-	0.8 L/s	0.585 Ha	0.95 L/s
Total	1117	22.3 L/s	0.8 L/s	0.770 Ha	23.25 L/s

The proposed sanitary flows as outlined above will discharge into municipal sewers by three 200mm @ 2.0% sanitary service connections. Each of the Buildings (A & B) and the Podium has separate proposed sanitary connections to the existing combined sewer within Danforth Avenue. Each of the three sanitary sewer connections has a capacity of 46 L/s, which is greater than the sanitary flows from each component of the development as above, therefore the proposed sanitary sewer connections are adequately designed.



#### Proposed Sanitary Flows Calculation Sheet (Using 450 L/c/d)

Project: 2451-2495 Danforth Avenue, Toronto, ON - Proposed Mixed-Use Development

 Project No.:
 22-010

 Date:
 Oct 2024

 By:
 MP



	Proposed Residential Sanitary Flows								Proposed No	n-Residential	Sanitary Fl	ows	Prop. 18	I Flows & G	iroundwater	
Development Component	1 BR Unit + Studio	2BR Unit	3BR Unit	4BR Unit	Residential Population	Peaking Factor	Peak Residential Sanitary Flow	Inst'l Floor Area GFA	Commercial / Retail Floor Area GFA	Non- Residential Population	Peaking Factor	Peak Non- Residential Sanitary Flow	Inflow & Infiltration Area	Site I&I Flow	Groundwater Flows	Peak Sanitary Flows
	(Units)	(Units)	(Units)	(Units)	(Persons)	М	(L/s)	(m²)	(m²)	(Persons)	M	(L/s)	(Ha)	(L/s)	(L/s)	(L/s)
Prop Bldg A	246	96	37	0	661	3.9	13.5						0.061	0.02	0.0	13.47
Prop Bldg B	159	56	25	1	421	4.0	8.80						0.124	0.03	0.0	8.84
Total of Prop Bldg (A+B)	405	152	62	1	1082	7.9	22.3	0.0	0.0	0.0	4.5	0.0	0.185	0.05	0.0	22.30
Prop Comm'l	0	0	0	0	0	4.5	0.0	0.0	3197.3	35.2	4.3	0.8	0.585	0.15	0.0	0.95
				Tota	al (Prop Bldg A	+ Prop Bl	dg B + Prop Co	omm'l)					0.770			23.25

Reference Sanitary Flows as per Design Criteria for Sewers and Watermains (City of Toronto, January 2021)

 Residential Unit Population:
 Non-Residential Unit Population:

 1BR = 1.4 person/unit
 Office = 3.3 person/100m² GFA

2BR = 2.1 person/unit Commercial/Retail = 1.1 person/100m<sup>2</sup> GFA

3BR = 3.1 person/unit Institutional = GFA(m2) x 1 bed/30m2 x 1 person/bed
4BR = 3.7 person/unit

Unit I&I Flow = 0.26 L/s/Ha

Unit Sanitary Flow = 450 L/c/d (for design of new sewers)

Peaking Factor,  $M = 1 + 14/(4 + P/1000)^2$ 

Peak Sanitary Flow, Q(D)(L/s) = P \* Q \* M / 86,400



# e. Receiving Combined Sewer Capacity & F-5-5 Compliance

It is demonstrated as follows that the existing municipal combined sewers, to which it is proposed to connect the development, will be operating under the reduced conditions pre-development as in post-development conditions. There will therefore be no adverse impacts on the capacity of the municipal combined sewer by the proposed development. The development is, further, in compliance with the Province of Ontario's *Procedure F-5-5*.

The pre-development and post-development flows which drain to the combined sewer are summarized in the following table.

Existing sewer outlets and sewer connections were identified in a Dye Test and CCTV Investigation, which is provided here in Appendix B. The dye test investigation informed the *Pre-Development Drainage Plan*, which is provided on the following page.

It is shown as follows that there is a reduction of 60.1 L/s in flows draining to the combined sewers from the Pre-Development Scenario to the Post-Development Scenario. No combined sewer infrastructure improvements are therefore required to accommodate the proposed development.

Table 3 - Comparison of Flows Draining into Combined Sewer, Pre-Development to Post-Development

	Sanitary Flow (DWF) (@ 240 L/c/d)*	Storm Flow (WWF) (2-Year Storm)**	Groundwater Flows	Total Flows Draining into Combined Sewer
Pre-Development Scenario	1.21L/s (Existing Building)	Ex-A + Ex-B + Ex-C + Ex-D+ Ex-E = 2.78CiA =2.78*0.88*88.2*0.77 =166.14 L/s	-	167.35 L/s
Post- Development Scenario	23.25 L/s*	84 L/s**	-	107.25 L/s
Change from Pre- Development to Post- Development	+22.04 L/s	-82.14L/s	-	-60.1 L/s

<sup>\*</sup>As per Table 2, above.

<sup>\*\*</sup>Storm flows are calculated using the Rational Method formula ( $Q_{2-\gamma}=2.78$ CiA), where the catchment area is given on the Pre-Development Drainage Plan, in reference to the Dye Test Investigation (Appendix B)



## Existing Sanitary Flows Calculation Sheet (Using 240 L/c/d & 250 L/c/d)

**Project:** 2451-2495 Danforth Avenue, Toronto, ON - Proposed Mixed-Use Develepment

 Project No.:
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 MP



			Resider	ntial Sanitary	Flows			Non-Re	sidential Sani	tary Flows		1&1 F	lows & Gro	undwater	
Development Component	1 BR Unit + Studio	2BR Unit	DTH House	Residential Population	Peaking Factor	Peak Residential Sanitary Flow	Ind'l Floor Area GFA	Commercial / Retail Floor Area GFA	Non- Residential Population	Peaking Factor	Peak Non- Residential Sanitary Flow	Inflow & Infiltration Area	Segment I&I Flow	Groundwater Flows	Peak Sanitary Flows
	(Units)	(Units)	(Units)	(Persons)	М	(L/s)	(m²)	(m²)	(Persons)	M	(L/s)	(Ha)	(L/s)	(L/s)	(L/s)
Ex. Bldg	0	0	0	0	4.5	0.0	0.0	2483.5	82.0	4.3	1.01	0.772	0.20	0.0	1.21

Reference Sanitary Flows as per Design Criteria for Sewers and Watermains (City of Toronto, January 2021)

Residential Unit Population: Non-Residential Unit Population:

1BR = 1.4 person/unit Office = 3.3 person/100m² GFA

2BR = 2.1 person/unit Commercial/Retail = 1.1 person/100m<sup>2</sup> GFA

3BR = 3.1 person/unit Institutional = GFA(m2) x 1 bed/30m2 x 1 person/bed

DTH = 3.5 person/unit Industrial = GFA (m<sup>2</sup>) x  $0.0272 \text{ persons/m}^2$ 

Unit I&I Flow = 0.26 L/s/Ha

Unit Non-Residential Sanitary Flow = 250 L/c/d (for analysis of existing sewers)
Unit Residential Sanitary Flow = 240 L/c/d (for analysis of existing sewers)

Peaking Factor,  $M = 1 + 14/(4 + P/1000)^2$ 

Peak Sanitary Flow, Q(D)(L/s) = P \* Q \* M / 86,400



# 4. Storm Drainage & Stormwater Management

# a. Criteria & Terms of Reference

The City of Toronto's site servicing policy typically requires all buildings/podiums/towers on a development to have separate respective storm service connections to a municipal sewer in the street to which that component of the development fronts. Alternatively, it is typically permissible to drain more than one building on a single Site into a common stormwater management facility, provided that sampling facilities (sampling ports, etc.) are provided for each prospective building.

Storm servicing criteria is given in Chapter 3 of the City of Toronto's *Design Criteria for Sewers and Watermains* manual (January 2021).

Stormwater Management criteria is given in the City of Toronto's *Wet Weather Flow Management Guidelines* (WWFMG) manual (2006). Table 7 provides stormwater management criteria therein. Table 7 states that the allowable release rate shall be given by the pre-development 2-year storm flow rate, utilizing the lesser of the actual pre-development runoff coefficient, or a runoff coefficient of 0.5. Table 7 therein allows for the use of the Rational Method for calculation of allowable flows, where site area is less than 5.0 Ha.

The following IDF curves represent the City of Toronto's storms which will be analyzed herein, as per the above manuals.

$$I_{2-Year} = 21.8 * T^{-0.78}$$
  
$$I_{100-Year} = 59.7 * T^{-0.80}$$

Where:

I = intensity (mm/hr)
T = Time of Concentration in hours

The *Toronto Green Standard* (TGS) provides criteria for stormwater retention/water balance. TGS Version 4, Tier 1, *WQ 1.1 Water Balance, Quality and Quantity* requires the proponent to address the following criteria.

- Water Balance: Retain a minimum of 50% of average annual rainfall volume (or equivalent 5mm each rainfall event).
- Water Quality: Provide long-term average removal of 80% Total Suspended Solids (TSS).
- Water Quantity: Peak flow control in accordance with WWFMG, above.



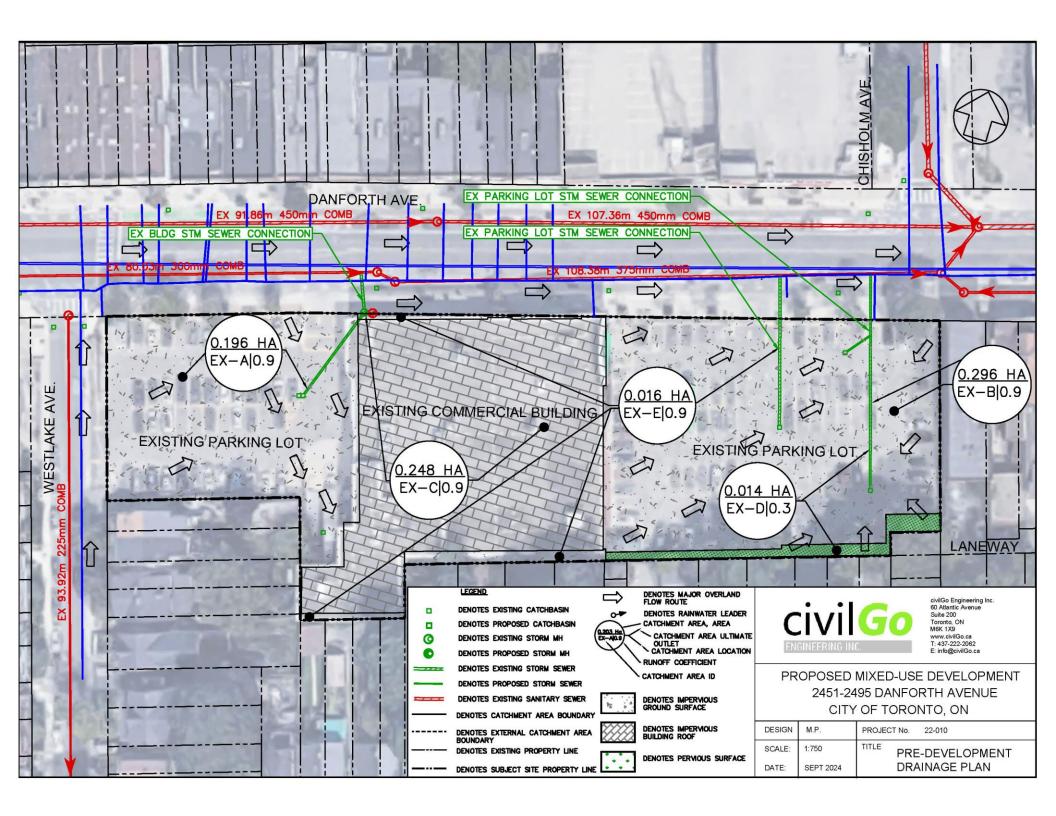
# b. Existing Storm Sewers & Drainage

There are no existing storm sewers within the municipal R.O.W. to which the site fronts. The adjacent streets (Danforth Avenue and Westlake Avenue) presently drain by catch basins which are connected to the combined sewers therein – discussed in Section 4.0 a., above.

The existing site presently drains by a total of three existing storm sewer connections which are connected to the Danforth Avenue combined sewers. Refer to the *Pre-Development Storm Drainage Plan* on the following page for pre-development (existing) storm drainage patterns and outlets.

The Site's pre-development drainage patterns are described as follows:

- Catchment Ex-A: is a 0196 Ha catchment area that comprises the impervious surfaces such as
  the existing parking lot to the west of the existing commercial building. The existing parking lot
  drain is connected by the existing building storm sewer connection; the existing storm sewer is
  connected into the Danforth Avenue combined sewer.
- Catchment Ex-B: is a 0.296 Ha catchment area that comprises the impervious surfaces such as
  the existing parking lot to the east of the existing commercial building. The existing parking lot
  drain is connected by the existing parking lot storm sewer connection; the existing storm sewer
  is connected into the Danforth Avenue combined sewer.
- Catchment Ex-C: is a 0.248 Ha catchment area that comprises the impervious surfaces such as the roof of the existing commercial building on the Site. The roof is connected by roof drains, and into the Danforth Avenue combined sewer.
- Catchment Ex-D: is a 0.014 Ha catchment area that comprises the existing pervious softscape surfaces within the Site, which drain by overland flow towards the east side existing parking lot storm sewer connections into the Danforth Avenue combined sewer.
- Catchment Ex-E: is a 0.016 Ha catchment area that comprises the impervious surfaces such as the front and the back existing ground surface of the existing commercial building within the Site, which drain by overland flow towards the east side existing parking lot storm sewer connections into the Danforth Avenue combined sewer.





# c. Basement Flooding Environmental Assessment (BFEA) – Storm Sewers Discussion

A Basement Flooding Environmental Assessment (BFEA) has been undertaken for this area, as discussed in Section 3. c., above. Refer to Section 3. c. for overall discussion pertaining to the context for the EA and for discussion pertaining to sanitary and combined sewers.

The following comments are provided with respect to the conclusions of the EA Report, pertaining to storm sewers and storm drainage.

- There are no separated storm sewers within the Streets adjacent to the site, therefore the EA's conclusions regarding storm sewer performance do not apply to this development.
- The EA Report identifies the performance of the combined sewer system in the various design storm events. The Report shows that the combined sewer system presently operates acceptably and does not recommend improvements to the combined sewers adjacent to the site.
- Figure 6.6.a., 2-Year Design Storm Combined and Sanitary Sewer System, in the EA Report shows that the combined sewer segments adjacent to the site's frontages are flowing with no surcharge in the pipes (with one exception) (in the 2-year storm) and that the freeboard (or depth from grade to surcharge water elevation) is greater than 1.8m below-grade in all Combined Sewer Maintenance Holes adjacent to the Site's frontage.
- Figure 6.6.d., 100-Year Design Storm Combined and Sanitary Sewer System, in the EA Report shows that the combined sewer segments adjacent to the site's frontages are surcharged (in the 100-year storm). This figure shows that the freeboard is greater than 1.80m below-grade in the combined sewers on the north side of Danforth Ave. and both sides of the street near the northeast corner, but that the HGL is less than 1.80m below-grade in the MH's at the NW corner.
- Figure 9.1, *Preferred Solutions, Cluster 1*, in the EA Report does not recommend any improvements within the combined or storm sewers near the subject Site.

Given the above discussion, no sanitary/combined sewer infrastructure improvements are required as part of this development on account of the Basement Flooding EA's recommendations.



# d. Allowable Storm Release Rate

Stormwater quantity/detention controls are required to satisfy the criteria given in Table 7 of the WWFMG, as outlined above. The allowable release rate to municipal infrastructure is calculated as follows.

It is proposed to drain storm flows from the proposed Development to the Danforth Avenue storm sewer.

The allowable release rate is calculated using the Rational Method formula, as follows. It is calculated based on the areas which drained to Danforth Ave. in the existing condition (Catchment Areas Ex-A, Ex-B, Ex-C, Ex-D, and Ex-E — refer to the *Pre-Development Drainage Plan*) minus the areas that will flow uncontrolled into the Danforth Ave. combined sewer in the post-development condition (Catchment Area H — refer to the *Post-Development Drainage Plan*). The allowable discharge flow rate is determined as follows to be 42 L/s for each of Building A and B (or 84 L/s for the Development as a whole).

Table 4 - Allowable Release Rate

Discharge Outlet	Site Area (A) (Ha)	Runoff Coefficient* (C <sub>Pre-Dev</sub> ) (unitless)	2-Year Storm Rainfall Intensity (I) (mm/hr)	Allowable Discharge Flow Rate (=2.78CIA)
Danforth Ave. 375mm dia. Combined Sewer	Ex-A + Ex-B + Ex-C + Ex-D+ Ex-E = 0.77 Ha	0.50	88.2 (2-year storm)	94 L/s
Deduction from Uncontrolled Runoff to Danforth Ave. 375mm dia. Combined Sewer (Catchment – H)	H = 0.017 Ha	0.90	250.3 (100-year storm)	10 L/s
	Remainir	ng Allowable Release Ra	ate = 94 L/s – 10 L/s =	84 L/s
Allowable Release Rate for each-of Building A & B			42 L/s	

 $<sup>* \ \</sup>textit{C}_{\textit{Pre-Dev}} = \frac{\textit{C*A}}{\textit{A}} = \frac{(0.9*0.196) + (0.9*0.296) + (0.9*0.248) + (0.3*0.014) + (0.9*0.016)}{0.196 + 0.296 + 0.248 + 0.014 + 0.016} = 0.88 \ ; \ \text{greater-than 0.50,} \\ \text{therefore C}_{\textit{Pre-Dev}} \ \text{taken-as} = 0.5$ 



# e. Proposed Storm Drainage, Servicing & Stormwater Management

It is proposed to service the proposed development with 200mm @ 2.00% storm sewer connections, for each of Building A and B, to the existing 375mm-dia. combined sewer within Danforth Avenue. Refer to the Functional Servicing Plan.

The Proposed Development's storm drainage conveyances are described as follows.

- Rainwater falling on the proposed building's roofs and ground-level surfaces will drain uncontrolled into storm area drains & roof drains (to be designed by the mechanical engineer). The storm roof drains will drain uncontrolled by mechanical storm drainage piping, into the site's proposed below-grade 100-year storm water detention tank(s). The tanks will be of cast-in-place concrete construction and constructed in the below-grade basement levels, adjacent-to the Danforth Avenue. Refer to the Functional Servicing Plan for the location of the tanks.
  - Aside: storm events up-to 5mm-depth will drain-into and fill the stormwater retention tank, which will spill into the stormwater detention tank. Refer to Section 4. f. for discussion.
- Note: detailed design of the orifice device and stormwater management tank are to be undertaken at the SPA-stage.

The Site's post-development storm catchment areas are outlined on the *Post-Development Drainage Plan*, below, and summarized in Table 5.

Table 5 - Post-Development Catchment Area Parameters

Catchment Area ID	Catchment Area (Ha)	Hydrology/Volume Method	Runoff Coefficient, C
Building A			
Catchment B (Pervious Surfaces – Green roof)	0.0610	Modified Rational Method	0.30
Catchment C (Pervious Softscape Surfaces)	0.031	Modified Rational Method	0.30
Catchment D (Impervious Regular Roof)	0.1839	Modified Rational Method	0.90
Catchment G (Impervious Ground-Level (Surfaces)	0.016	Modified Rational Method	0.90



#### **Building B Catchment A (Pervious Modified Rational** 0.0074 0.30 Softscape Surfaces) Method **Modified Rational** Catchment E (Impervious 0.0543 0.90 Method Regular Roof) **Catchment F (Impervious Modified Rational** 0.002 0.90 Surfaces) Method Catchment H (Impervious Rational Method 0.017 0.90 Surfaces) (Uncontrolled) Catchment I (Pervious **Modified Rational** 0.124 0.30 Surfaces – Green roof) Method **Modified Rational** Catchment J (Impervious 0.264 0.90 **Driveway Surfaces)** Method **Total** 0.76 6.6

The required volume of stormwater detention was determined utilizing the *Modified Rational Method*. The required volume of stormwater storage is summarized in Table 6, as follows. Modified Rationale Method calculation sheets for the 1-in-2-year storm and 1-in-100-year storm are provided on the following pages, below.

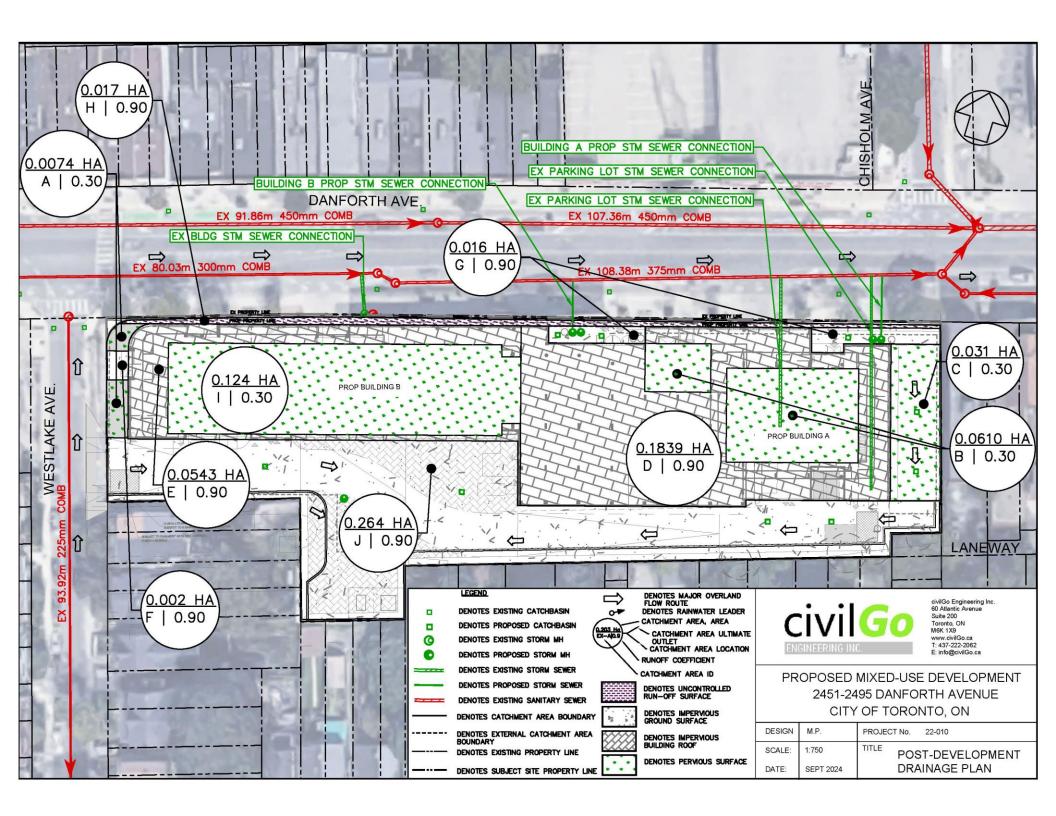
It is evident in Table 6 that the proposed controlled release rate in the 100-year storm (42 L/s), is nomore-than the allowable release rate (42 L/s) for each of Building A and B, therefore the City's allowable release rate criteria is addressed. Further, the required volume of stormwater storage in Building A in a 1-in-100-year storm (61.44m³) will be accommodated in the proposed 150m³ below-grade stormwater detention tank, and the required volume of stormwater storage in Building B in a 1-in-100-year storm (118.29m³) will be accommodated in the proposed 150m³ below-grade stormwater detention tank. Therefore, the stormwater detention criteria with respect to the 1-in-100-year storm is addressed. Refer to the Functional Servicing Plan (Drawing No. CV-101) for the design of the stormwater detention tank whereby this criterion is addressed.



Table 6 - Stormwater Quantity Control (Detention) Results Summary

Storm Event	Allowable Release Rate (Q <sub>all</sub> )	Max Controlled Flows (Q <sub>c</sub> )	Uncontrolled Flows (Q <sub>UC</sub> )	Total Release Rate from Site (Q <sub>τ</sub> =Q <sub>c</sub> +Q <sub>Uc</sub> )	Required Detention Storage Volume	Provided Detention Storage Volume
Building A						
2-Year Storm	42 L/s (Table 4)	42 L/s	N/A	42 L/s	5.32 m³ (below*)	150 m <sup>3</sup>
100-Year Storm	42 L/s (Table 4)	42 L/s	N/A	42 L/s	61.44 m³ (below*)	150 m <sup>3</sup>
Building B						
2-Year Storm	42 L/s (Table 4)	42 L/s	N/A	42 L/s	25.25 m³ (below*)	150 m <sup>3</sup>
100-Year Storm	42 L/s (Table 4)	42 L/s	N/A	42 L/s	118.29 m³ <i>(below*)</i>	150 m³

<sup>\*</sup>Refer to Modified Rational Method – Stormwater Storage Volume Calculation Sheets, below







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#### Modified Rational Method - Stormwater Storage Volume Calculation

#### 100-Year Storm

Project Name:	Proposed Mixed-Use Develeopment - BLDG B
Project Address:	2451-2495 Danforth Avenue, Toronto, ON
civilGo Project No.:	22-010
Date:	Sep 2024
Rev. No:	0
Ref. Drawing:	Servicing Plan
By:	MP

#### Stormwater Quantity Control Criteria:

Control 1-in-100-Year Post-Development Storm Flow to 1-in-2-Year Pre-Development Storm Flow

Qa = Allowable Release Rate =	42 L	L/s (see FSR Table 5)
Qc = Controlled Release Rate =	42 L	L/s (Max outflow from Orifice)

#### Post-Development Catchment Area Parameters:

Catchment Areas:	A, E, F, H, I, J	See Post Development Catchment Plan
Cpost =	0.73	Post-Development Composite Runoff Coefficient (unitless)
Apost =	0.47	Site Area, Post-Development (Ha)
Tc =	10	Initial Time of Concentration (minutes)

## Rainfall Intensity for Storm Even 100-Year

$$i = A/(T_d + B)^{\mathcal{C}}$$

Where:	i =	rainfall intensity (mm/hr)			
	A =	59.7	City of Toronto 100		
	B =	0	City of Toronto 100- Year Storm IDF		
	C =	0.8			
	Td =	Tc +	storm duration		

## Post-Development Runoff Flow Rate, QP

$$Q_P = 2.78 * C_{Post} * i * A_{Post}$$

## Required Storage Volume, SR

$$S_R = Q_P * T_d - Q_c * T_d$$

Td	i	Qp	Sr	
(min)	(mm/hr)	(L/s)	(m3)	
10	250.3	238.7	118.01	
11	231.9	221.2	118.25	
12	216.3	206.3	118.29	>Max
13	202.9	193.5	118.17	
14	191.2	182.4	117.90	
15	181.0	172.6	117.51	
16	171.9	163.9	117.00	
17	163.7	156.1	116.40	
18	156.4	149.1	115.71	
19	149.8	142.8	114.95	
20	143.8	137.1	114.10	
21	138.3	131.8	113.20	
22	133.2	127.0	112.23	
23	128.6	122.6	111.21	
24	124.3	118.5	110.13	
25	120.3	114.7	109.01	
26	116.6	111.1	107.85	
27	113.1	107.8	106.64	
28	109.8	104.7	105.40	
29	106.8	101.8	104.12	
30	103.9	99.1	102.80	
31	101.3	96.5	101.45	1
32	98.7	94.1	100.08	1
33	96.3	91.8	98.67	1
34	94.0	89.7	97.24	
35	91.9	87.6	95.79	

Td	i	Qp	Sr
(min)	(mm/hr)	(L/s)	(m3)
36	89.8	85.7	94.31
37	87.9	83.8	92.80
38	86.0	82.0	91.28
39	84.3	80.3	89.73
40	82.6	78.7	88.17
41	81.0	77.2	86.58
42	79.4	75.7	84.98
43	77.9	74.3	83.36
44	76.5	73.0	81.72
45	75.1	71.7	80.07
46	73.8	70.4	78.40
47	72.6	69.2	76.72
48	71.4	68.1	75.02
49	70.2	66.9	73.31
50	69.1	65.9	71.59
51	68.0	64.8	69.85
52	66.9	63.8	68.11
53	65.9	62.9	66.35
54	65.0	61.9	64.58
55	64.0	61.0	62.79
56	63.1	60.2	61.00
57	62.2	59.3	59.20
58	61.3	58.5	57.38
59	60.5	57.7	55.56
60	59.7	56.9	53.73
61	58.9	56.2	51.89





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#### **Modified Rational Method - Stormwater Storage Volume Calculation**

100-Year Storm

Project Name:	Proposed Mixed-Use Develeopment - BLDG A
Project Address: 2451-2495 Danforth Avenue, Toronto, ON	
civilGo Project No.:	22-010
Date:	Sep 2024
Rev. No:	0
Ref. Drawing:	Servicing Plan
By:	MP

#### Stormwater Quantity Control Criteria:

Control 1-in-100-Year Post-Development Storm Flow to 1-in-2-Year Pre-Development Storm Flow

Qa = Allowable Release Rate =	42	L/s (see FSR Table 5)
Qc = Controlled Release Rate =	42	L/s (Max outflow from Orifice)

Post-Development	Catchment A	rea Parameters:	
Catchment Areas: B, C, D, G See Post Development		See Post Development Catchment Pl	an
Cpost = 0.71		Post-Development Composite Runoff	Coefficient (unitless)
Apost = 0.29		Site Area, Post-Development (Ha)	
Tc =	10	Initial Time of Concentration (minute:	s)

ı	Rainfall Intensity	for Storm Even	100-Year	

$$i = A/(T_d + B)^C$$

$$Q_P = 2.78 * C_{Post} * i * A_{Post}$$

Where:	i =	rainfall intensity (mm/hr)	
	A =	59.7	City of Toronto 100
	B =	0	City of Toronto 100-
	C =	0.8	Year Storm IDF
	T., -	Tc ±	storm duration

$$S_R = Q_P * T_d - Q_c * T_d$$

Td	i	Qp	SR	
(min)	(mm/hr)	(L/s)	(m3)	
10	250.3	144.4	61.44	>Max
11	231.9	133.8	60.59	
12	216.3	124.8	59.62	
13	202.9	117.1	58.55	
14	191.2	110.3	57.39	
15	181.0	104.4	56.16	
16	171.9	99.1	54.86	
17	163.7	94.5	53.50	
18	156.4	90.2	52.09	
19	149.8	86.4	50.63	
20	143.8	82.9	49.13	
21	138.3	79.8	47.58	
22	133.2	76.8	46.00	
23	128.6	74.2	44.39	
24	124.3	71.7	42.74	
25	120.3	69.4	41.07	
26	116.6	67.2	39.37	
27	113.1	65.2	37.64	
28	109.8	63.4	35.89	
29	106.8	61.6	34.12	
30	103.9	60.0	32.33	
31	101.3	58.4	30.52	
32	98.7	56.9	28.70	
33	96.3	55.6	26.85	
34	94.0	54.2	24.99	
35	91.9	53.0	23.11	]

Td	i	Qp	Sr
(min)	(mm/hr)	(L/s)	(m3)
36	89.8	51.8	21.22
37	87.9	50.7	19.32
38	86.0	49.6	17.40
39	84.3	48.6	15.47
40	82.6	47.6	13.53
41	81.0	46.7	11.57
42	79.4	45.8	9.61
43	77.9	45.0	7.63
44	76.5	44.1	5.65
45	75.1	43.4	3.65
46	73.8	42.6	1.65
47	72.6	41.9	-0.37
48	71.4	41.2	-2.39
49	70.2	40.5	-4.42
50	69.1	39.8	-6.46
51	68.0	39.2	-8.50
52	66.9	38.6	-10.56
53	65.9	38.0	-12.62
54	65.0	37.5	-14.68
55	64.0	36.9	-16.76
56	63.1	36.4	-18.84
57	62.2	35.9	-20.92
58	61.3	35.4	-23.02
59	60.5	34.9	-25.11
60	59.7	34.4	-27.22
70	52.8	30.4	-48.54





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#### Modified Rational Method - Stormwater Storage Volume Calculation

#### 2-Year Storm

Project Name: Proposed Mixed-Use Develeopment -BLDG	
Project Address:	2451-2455 Danforth Avenue, Toronto, ON
civilGo Project No.:	22-010
Date:	Sep 2024
Rev. No:	0
Ref. Drawing:	Servicing Plan
By:	MP

#### Stormwater Quantity Control Criteria:

Control 1-in-100-Year Post-Development Storm Flow to 1-in-2-Year Pre-Development Storm Flow

Qa = Allowable Release Rate =	42	L/s (see FSR Table 5)
Qc = Controlled Release Rate =	42	L/s (Max outflow from Orifice)

## Post-Development Catchment Area Parameters:

Catchment Areas:	A, E, F, H, I, J	See Post Development Catchment Plan
Cpost = 0.73		Post-Development Composite Runoff Coefficient (unitless)
Apost =	0.4687	Site Area, Post-Development (Ha)
Tc =	10	Initial Time of Concentration (minutes)

## Rainfall Intensity for Storm Even 2-Year

$$i = A/(T_d + B)^C$$

$$Q_P = 2.78 * C_{Post} * i * A_{Post}$$

# Where: $i = \frac{rainfall\ intensity\ (mm/hr)}{A = 21.8}$ B = 0 C = 0.78City of Toronto 100Year Storm IDF Td = Tc + storm duration

#### Required Storage Volume, SR

$$S_R = Q_P * T_d - Q_c * T_d$$

Td	i	Qp	Sr	
(min)	(mm/hr)	(L/s)	(m3)	
10	88.2	84.1	25.25	>Max
11	81.9	78.1	23.80	
12	76.5	72.9	22.28	
13	71.9	68.5	20.69	
14	67.8	64.7	19.05	
15	64.3	61.3	17.36	
16	61.1	58.3	15.63	
17	58.3	55.6	13.86	
18	55.8	53.2	12.06	
19	53.5	51.0	10.23	
20	51.4	49.0	8.36	_
21	49.4	47.1	6.48	
22	47.7	45.5	4.57	
23	46.1	43.9	2.64	
24	44.6	42.5	0.69	_
25	43.2	41.1	-1.28	
26	41.9	39.9	-3.26	
27	40.6	38.8	-5.26	_
28	39.5	37.7	-7.28	_
29	38.4	36.6	-9.31	
30	37.4	35.7	-11.35	]
31	36.5	34.8	-13.41	]
32	35.6	33.9	-15.47	]
33	34.8	33.1	-17.55	]
34	34.0	32.4	-19.64	]
35	33.2	31.6	-21.74	

Td	i	Qp	Sr
(min)	(mm/hr)	(L/s)	(m3)
36	32.5	31.0	-23.84
37	31.8	30.3	-25.96
38	31.1	29.7	-28.08
39	30.5	29.1	-30.21
40	29.9	28.5	-32.35
41	29.3	28.0	-34.50
42	28.8	27.5	-36.66
43	28.3	27.0	-38.82
44	27.8	26.5	-40.98
45	27.3	26.0	-43.16
46	26.8	25.6	-45.34
47	26.4	25.1	-47.52
48	25.9	24.7	-49.71
49	25.5	24.3	-51.91
50	25.1	24.0	-54.11
51	24.7	23.6	-56.32
52	24.4	23.2	-58.53
53	24.0	22.9	-60.74
54	23.7	22.6	-62.96
55	23.3	22.2	-65.19
56	23.0	21.9	-67.42
57	22.7	21.6	-69.65
58	22.4	21.3	-71.88
59	22.1	21.1	-74.12
60	21.8	20.8	-76.37
61	21.5	20.5	-78.62





civil Go Engineering Inc. 60 Atlantic Avenue, Suite 200 Toronto, ON M6K 1X9 www.civil Go.ca T: 437-222-2062 E: info@civil Go.ca

#### Modified Rational Method - Stormwater Storage Volume Calculation

#### 100-Year Storm

Project Name:	Proposed Mixed-Use Develeopment - BLDG B	
Project Address:	2451-2455 Danforth Avenue, Toronto, ON	
civilGo Project No.:	22-010	
Date:	Sep 2024	
Rev. No:	0	
Ref. Drawing:	Servicing Plan	
By:	MP	

## Stormwater Quantity Control Criteria:

Control 1-in-100-Year Post-Development Storm Flow to 1-in-2-Year Pre-Development Storm Flow

Qa = Allowable Release Rate =	42	L/s (see FSR Table 5)
Qc = Controlled Release Rate =	42	L/s (Max outflow from Orifice)

Tc + storm duration

#### Post-Development Catchment Area Parameters:

Catchment Areas:	A, E, F, H, I, J	See Post Development Catchment Plan
Cpost =	0.73	Post-Development Composite Runoff Coefficient (unitless)
Apost =	0.47	Site Area, Post-Development (Ha)
Tc =	10	Initial Time of Concentration (minutes)

## Rainfall Intensity for Storm Even 100-Year

$$i = A/(T_d + B)^C$$

Where:	i =	rainfall intensity (mm/hr)		
	A =	59.7	City of Toronto 100	
	B =	0	City of Toronto 100-	
	C =	0.8	Year Storm IDF	

# Post-Development Runoff Flow Rate, QP

$$Q_P = 2.78 * C_{Post} * i * A_{Post}$$

## Required Storage Volume, SR

$$S_R = Q_P * T_d - Q_c * T_d$$

Td	i	Qр	Sr	
(min)	(mm/hr)	(L/s)	(m3)	
10	250.3	238.7	118.01	1
11	231.9	221.2	118.25	
12	216.3	206.3	118.29	>Max
13	202.9	193.5	118.17	
14	191.2	182.4	117.90	
15	181.0	172.6	117.51	
16	171.9	163.9	117.00	
17	163.7	156.1	116.40	
18	156.4	149.1	115.71	
19	149.8	142.8	114.95	
20	143.8	137.1	114.10	
21	138.3	131.8	113.20	
22	133.2	127.0	112.23	
23	128.6	122.6	111.21	
24	124.3	118.5	110.13	
25	120.3	114.7	109.01	
26	116.6	111.1	107.85	
27	113.1	107.8	106.64	
28	109.8	104.7	105.40	
29	106.8	101.8	104.12	
30	103.9	99.1	102.80	
31	101.3	96.5	101.45	]
32	98.7	94.1	100.08	]
33	96.3	91.8	98.67	]
34	94.0	89.7	97.24	1
35	91.9	87.6	95.79	

Td	i	Qp	Sr
(min)	(mm/hr)	(L/s)	(m3)
36	89.8	85.7	94.31
37	87.9	83.8	92.80
38	86.0	82.0	91.28
39	84.3	80.3	89.73
40	82.6	78.7	88.17
41	81.0	77.2	86.58
42	79.4	75.7	84.98
43	77.9	74.3	83.36
44	76.5	73.0	81.72
45	75.1	71.7	80.07
46	73.8	70.4	78.40
47	72.6	69.2	76.72
48	71.4	68.1	75.02
49	70.2	66.9	73.31
50	69.1	65.9	71.59
51	68.0	64.8	69.85
52	66.9	63.8	68.11
53	65.9	62.9	66.35
54	65.0	61.9	64.58
55	64.0	61.0	62.79
56	63.1	60.2	61.00
57	62.2	59.3	59.20
58	61.3	58.5	57.38
59	60.5	57.7	55.56
60	59.7	56.9	53.73
61	58.9	56.2	51.89



# f. Stormwater Retention & 'Water Balance'

Criteria for stormwater retention, or 'Water Balance/Reuse', is given by the City of Toronto's *Wet Weather Flow Management Guidelines (WWFMG)* and *Toronto Green Standard (TGS)*. TGS *WQ 1.1 Water Balance, Quality and Quantity* requires the proponent to address the following criteria.

• Water Balance: Retain a minimum of 50% of average annual rainfall volume (or equivalent 5mm each rainfall event).

The WWFMG and Toronto Water's criteria typically requires that retained stormwater is reused on-site within 72-hours of the 5mm storm.

It is shown, as follows, that the required retention volume to satisfy the TGS and WWFMG criteria is 38.1m<sup>3</sup>/72-Hours and that this volume of stormwater may be retained on-site by a combination of initial abstractions and storage in a retention cistern (for subsequent greywater and irrigation reuse), providing a total retention volume of 38.2m<sup>3</sup>/72-Hour.

Table 7 - 'Water Balance', or Stormwater Retention and Reuse, Summary

Catchment Area	Surface Description	Catchment Area (m²)	Initial Abstraction (mm)	Retention Volume (m³)
Target Volume	N/A	7620 m <sup>2</sup>	5mm	38.10 m³

## Stormwater Retention by Initial Abstraction, as Follows:

Building A				
Green roof (Catchment B)	Pervious Surfaces	610 m <sup>2</sup>	5 mm	3.05 m <sup>3</sup>
Softscape Surfaces (Catchment C)	Pervious Surfaces	1300 m <sup>2</sup>	5 mm	6.5 m <sup>3</sup>
Regular Roof (Catchment D)	Impervious Surfaces	1839 m²	1 mm	1.83 m³
Ground-Level Surfaces (Catchment G)	Impervious Surfaces	160 m²	1 mm	0.16 m <sup>3</sup>
Building B				
Softscape Surfaces (Catchment A)	Pervious Surfaces	74 m²	5 mm	0.37 m <sup>3</sup>
Regular Roof (Catchment E)	Impervious Surfaces	543 m <sup>2</sup>	1 mm	0.543 m <sup>3</sup>
Ground-Level Surfaces (Catchment F)	Impervious Surfaces	20 m²	1 mm	0.02 m <sup>3</sup>



Ground-Level Surfaces (Catchment H)	Impervious Surfaces	170 m²	1 mm	0.17 m <sup>3</sup>
Green roof (Catchment I)	Pervious Surfaces	1240 m²	5 mm	6.2 m <sup>3</sup>
Driveway Surface (Catchment J)	Impervious Surfaces	2640 m <sup>2</sup>	1 mm	2.64m³
Total Stormwater Retention by Initial Abstractions:				21.5 m <sup>3</sup>
Retention in Cistern (for Greywater Reuse & Irrigation):				16.7 m <sup>3</sup>
Total On-Site Stormwater Retention Capacity:				38.2 m³

As shown above, water balance retention of 21.5 m³ is provided by surface initial abstractions. There remains a deficit of 16.7 m³/72-hour, which is addressed by retention in a below-grade stormwater retention cistern and thereafter dispersed on-site by irrigation and greywater reuse. 'Clean' stormwater runoff from the building's roof will drain into a stormwater retention cistern to be designed at the SPA stage.

# g. Stormwater Quality

Criteria for stormwater quality is given by the City of Toronto's *Wet Weather Flow Management Guidelines (WWFMG)* and *Toronto Green Standard (TGS)*. TGS Version 4, Tier 1, *WQ 1.1 Water Balance, Quality and Quantity* requires the proponent to address the following criteria.

Water Quality: Provide long-term average removal of 80% Total Suspended Solids (TSS).

There is an open-to-above driveway area at the Site's rear, fronting the laneway, which will be subject to winter maintenance and will require stormwater quality treatment. A stormwater filter device will be specified at the SPA stage, to provide 80% TSS Removal. Preliminarily, a *Jellyfish Filter* by Imbrium Systems will be specified. The Jellyfish Filter has Canadian Environmental Technology Verification (ETV) and NJDEP certification for 80% TSS Removal.



# 5. Foundation Drainage & Groundwater

# a. Criteria

The City of Toronto enacted a foundation drainage policy applying to new development applications made after January 1, 2022, providing criteria for consideration of foundation drainage. The policy applies to new development applications made after January 1, 2022. The policy effectively categories below-grade construction into the following scenarios.

- 'Scenario 1': Below-grade construction extends below the stable groundwater table elevation (or within 1.0m of it) in which case the foundations must be constructed in a watertight or 'bathtubbed' manner.
- 'Scenario 2': Below-grade construction does not extend below the stable groundwater table, and stops 1.0m higher-than the stable groundwater table elevation. The policy offers two solutions in this scenario:
  - 'Scenario 2A': If the project is in a storm or sanitary sewer-shed the foundations may be constructed in a 'drained' manner and the resulting foundation drainage water discharged to the storm or sanitary sewer (subject to satisfying the applicable City criteria with respect to water quality and the sewer having capacity).
  - 'Scenario 2B': If the project is in a combined sewer-shed the foundations must be constructed in a watertight or 'bathtubbed' manner.

The policy also allows the collection and discharge of foundation drainage on-site, into an infiltration gallery or such solution, provided the quality of the water is acceptable.

# b. Hydrogeological Investigation Results

The hydrogeological investigation informs which scenario, above, applies to this development.

A Hydrogeological Investigation was prepared by WSP, dated November 2024, to qualitatively and quantitatively characterize the groundwater at the Site with respect to the City's criteria. The conclusions of the report are generally as follows.

The seasonally high groundwater table, considering the required vertical freeboard contingencies, is higher-than the proposed building's foundation drains. The 'Scenario 1' discussion form the City's foundation drainage policy, as outlined, above applies. The proposed building will be constructed in a watertight manner and the hydro-geological manner states so accordingly.

In the short-term, construction-stage, scenario, the daily volume of water entering the excavation (thus requiring discharge) is 353m<sup>3</sup>/day (which equates to 4.1 L/s).

# c. Long-Term Scenario

In the long-term scenario, the proposed building will be constructed in a watertight manner, therefore there will be no long-term discharge of foundation drainage water. A letter has been provided by each of the owner, mechanical engineer and structural engineer, accordingly, on the following pages.



# d. Short-Term 'Construction-Stage' Scenario

It is proposed, in the short-term scenario, to collect the water in the excavation for the proposed development and discharge it into the site's existing sanitary sewer connection.

The flow rate of short-term groundwater is 353m<sup>3</sup>/day (which equates to 4.1 L/s). This flow rate is less than the future development's post-development sanitary flow rate (as per Table 3), therefore it follows that the receiving combined sewers have available capacity for the temporary groundwater discharge.





tmptoronto.com

November 5, 2024

**Attention:** Chief Engineer and Executive Director, Engineering and Construction services c/o Manager, Development Engineering

cc: General Manager, Toronto Water c/o Manager, Environmental Monitoring and Protection Unit 30 Dee Ave, Toronto ON M9N 1S9

#### RE: 2451-2494 DANFORTH AVENUE

Dear Sir or Madam,

I Steve Orchard, confirm that all building(s) on the subject lands 2451-2494 Danforth Ave will be designed and constructed in a manner without Private Water Drainage System (subsurface drainage system) consisting of but not limited to weeping tile(s), foundation drain(s), private water collections sump(s), private water pump or any combination thereof for the disposal of private water on the surface of the ground or to a private sewer connection directly or indirectly or drainage system for disposal directly or indirectly in a municipal sewer. Underground structure(s) of the proposed building(s) will be built completely watertight without any direct or indirect connection to the city sewer for the discharge of groundwater (from a PWDS or floor drain or other infrastructure).

I understand that a Private Water Drainage System as an emergency backup system is not permitted, as part of this proposal.

Yours very truly,

THE MITCHELL PARTNERSHIP INC.

Steve Orchard, P.Eng

Partner







Entuitive Corporation 200 University Avenue, 7th Floor Toronto, ON M5H 3C6 Canada

T. 416.477.5832

November 7th, 2024

Attention: Executive Director, Engineering and Construction Services c/o Manager, Development Engineering 5100 Yonge Street, 4<sup>th</sup> Floor, Toronto, ON M2N 5V7

Cc: General Manager, Toronto Water c/o Manager, Environmental Monitoring and Protection Unit 30 Dee Ave, Toronto, ON M9N 1S9

Re: Watertight Below-Grade Structure, 2451 Danforth Avenue, Toronto, ON Our Project No. EN024-01874

Dear Sir or Madam,

I, Robin Djuita, confirm that all buildings on the subject lands at 2451 Danforth Avenue can be constructed completely water-tight below grade in a manner that will resist hydrostatic pressure without any necessity for Private Water Drainage System (subsurface drainage system) consisting of but not limited to weeping tile(s), foundation drain(s), private water collection sump(s), private water pump or any combination thereof for the disposal of private water on the surface of the ground or to a private sewer connection directly or indirectly or drainage system for disposal directly or indirectly in a municipal sewer.

Note: For structural design only to resist hydrostatic pressure. Entuitive is not responsible for waterproofing, construction and active or passive drainage systems as referenced above.

Sincerely, Entuitive

Robin Djuita, P.Eng. Associate robin.djuita@entuitive.com D: 416 305 2860



entuitive.com





November 11, 2024

#### **Corporate Headquarters**

85 Hanna Ave, Suite 400 Toronto, ON M6K 3S3

Attention: Executive Director, Engineering and Construction Services c/o Manager, Development Engineering

cc: General Manager, Toronto Water c/o Manager, Environmental Monitoring and Protection Unit 30 Dee Ave, Toronto ON M9N 1S9

Dear Sir or Madam,

I, Joshua Butcher, confirm and undertake that I will construct and maintain the new buildings to be constructed on the subject lands at 2451-2495 in a manner which shall be completely watertight below grade and resistant to hydrostatic pressure without any necessity for Private Water Drainage System (subsurface drainage system) consisting of but not limited t weeping tile (s), foundation drain(s), private water collection sump(s), private water pump or any combination thereof for the disposal of private water on the surface of the ground or to a private sewer connection directly or indirectly or drainage system for disposal directly or indirectly in a municipal sewer.

FCHT Holdings (Ontario) Corp.

Joshua Butcher

Senior Director, Development

I, Joshua Butcher, have the authority to bind the corporation.

85 Hanna Avenue, Suite 400 Toronto, Ontario M6K 3S3

fcr.ca



## 6. Grading & Topography

The Site is generally level and no significant grade changes warranting retaining walls etc. are required.

The proposed development fronts on two sides to existing municipal Rights of Way. It is proposed to reconstruct the existing municipal sidewalks on those two frontages, according to City standards.

### 7. Erosion & Sediment Control

Erosion and sediment control practices will be employed during the construct phase to mitigate sediment transport, in accordance with TRCA and City of Toronto requirements. Refer to the *Erosion and Sediment Control Plan* for the proposed measures.

### 8. Conclusions

This report has outlined the manner in which the proposed development will be serviced and by which the stormwater management criteria will be satisfied.

Please contact the undersigned with any questions.

Respectfully submitted,



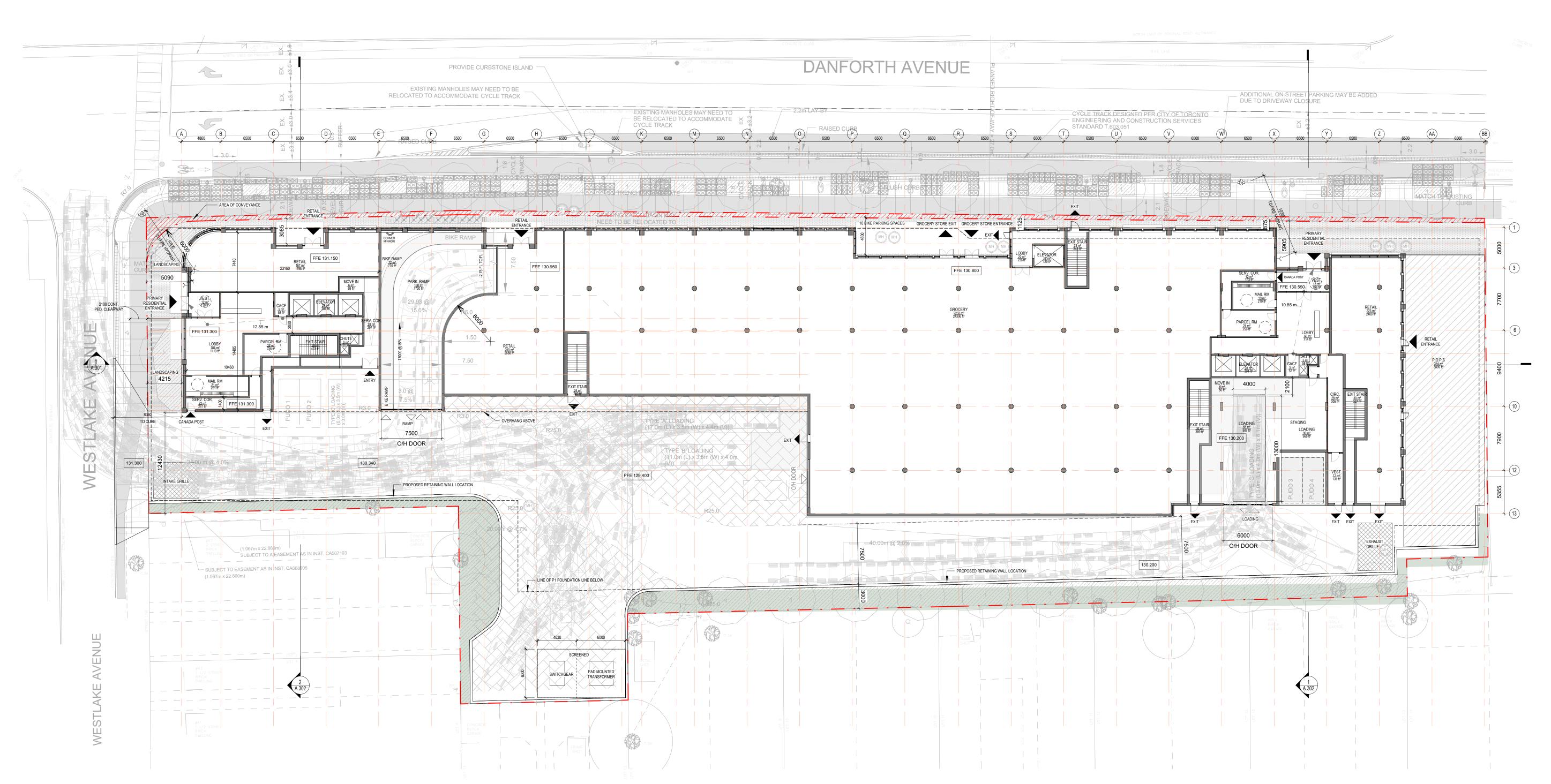
**Daniel Bancroft, P.Eng.,** civilGo Engineering Inc.

Miti Patel, M.Eng., E.I.T., civilGo Engineering Inc.



# **APPENDIX** A

- Architectural Site Plan by Superkül Architects
- Architectural Statistics by Superkül Architects



Site Plan - Ground Floor 1: 250 Copyright reserved. This design and drawings are the exclusive property of superkul inc. (the Architect) and cannot be used for any purpose without the written consent of the Architect. This drawing is not to be used for construction until issued for that purpose by the Architect.

Prior to commencement of the Work the Contractor shall verify all drawing dimensions, datums, and levels with the Contract Documents and with the conditions on site; ascertain any discrepancies between the site and the Contract Documents, and bring these items to the attention of the Architect for clarification.

# superk"

101 - 35 Golden Avenue Toronto, ON M6R 2J5

t> 416.596.0700 f> 416.533.6986 www.superkul.ca

PRINCIPAL ENTRY
ENTRY/ EXIT

VEHICULAR ENTRY/ EXIT

FIRE DEPARTMENT

CONNECTION

CONNECTION

FIRE HYDRANT

MANHOLE COVER

CB CATCH BASIN

HP HYDRO POLE

EL ELECTRICAL STAND

— — — EXTENT OF BELOW GRADE

— — — BUILDING ELEMENT ABOVE

OPEN TO BELOW

EXTENT OF GROUND FLOOR

123.45 GEODETIC ELEVATION

HT: 12.30 m ELEVATION FROM EXTABLISHED GRADE

78.20 EXISTING GRADE ELEVATION

BARRIER FREE TURNING RADIUS

EXISTING BUILDING

PROPERTY CONVEYANCE

PROPERTY LINE

FFE FINISHED FLOOR ELEVATION

TOP TOP OF PARAPET

TOR TOP OF ROOF

TOS TOP OF STRUCTURE

TGS TORONTO GREEN STANDARDS

TPZ TREE PROTECTION ZONE

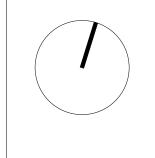
### NOTE:

SURVEY INFORMATION TAKEN FROM "LOT 1 AND PART OF LOT 2 REGISTERED PLAN 614 YORK AND PART OF LOT 13 SOUTH SIDE OF DANFORTH AVENUE REGISTERED PLAN 90 YORK AND PART OF LOTS 3,4,5,6,7 AND 8 REGISTERED PLAN 580 YORK CITY OF TORONTO"
BY KRCMAR SURVEYORS LTD.
DATED JULY, 27 2022.

OCT 28, 2024 Issued for OPA and ZBA

Date Issue/Revision





# 2451-2495 Danforth

2451-2495 Danforth Avenue, Toronto, ON M6R 2J5

Title

FLOOR PLAN - GROUND FLOOR

Project No. 2216

Drawing No.

Scale As indicated

A.103

Statistics Template – Toronto Green Standard Version 4.0

City Agency, Corporation & Division-Owned Facilities

The Toronto Green Standard Version 4.0 Statistics Template is submitted with Site Plan Control Applications and stand-alone Zoning Bylaw Amendment applications. Complete the table and copy it directly onto the Site Plan submitted as part of the application.

For Zoning Bylaw Amendment applications: complete General Project Description and Section 1. For Site Plan Control applications: complete General Project Description, Section 1 and Section 2. For further information, please visit <u>www.toronto.ca/greendevelopment</u>

General Project Description	Proposed				
Total Gross Floor Area	41251.7 m²	444029.5 ft²			
Breakdown of project components (m²):					
Retail <b>GROCERY GFA</b> :	2258.1 m²	24306.3 ft²			
Commercial TOTAL RETAIL GFA:	939.2 m²	10109.6 ft² (EXCLUDING GROCERY)			
Industrial					
Institutional/Other					
Total number of residential units	620				

### Section 1: For Stand Alone Zoning Bylaw Amendment Applications and Site Plan Control Applications

Low Emissions Transportation	Required	Proposed	Proposed %
Number of Parking Spaces	7	278	>100%
Number of EV Parking Spaces (Residential)	190	190	100%
Number of EV Parking Spaces (Non - Residential)	22	22	100%
Cycling Infrastructure	Required	Proposed	Proposed %
Number of long-term bicycle parking spaces (all-uses)	564	568	>100%
Number of long-term bicycle parking located on:			
a) first storey of building			
b) second storey of building			
c) first level below-ground		568	100%
d) second level below-ground			
e) other levels below-ground			
Number of short-term bicycle parking spaces	146	146	100%
Number of shower and change facilities	N/A	N/A	







Statistics Template – Toronto Green Standard Version 4.0 TORONTO City Agency, Corporation & Division-Owned Facilities

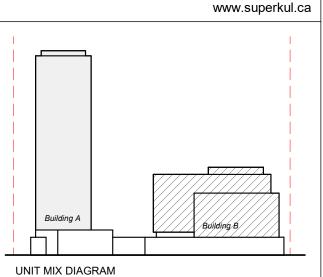
Tree Canopy	Required	Proposed	Proposed %
Total Soil Volume (40% of the site area ÷ 66 m² x 30 m³)	1374 m3	1156 m3	84%
Soil volume provided within the site area (m³)		644 m3	
Soil Volume provided within the public boulevard (m³)		512 m3	

GCA AND	GFA BREAKD	OWN					PROJECT STATIST	ICS SUMMAI	RY		
ABOVE GROUND GROSS CONSTRUCTION ZBL 56							NUMBER OF FLOORS: 13/35 FSI (GFA/LOT AREA):				
ABOVE GROUND GROSS CONSTRUCTION AREA		ZBL 569-2013 EXCLUSIONS		CITY WIDE BY-LAW 569-2013 GROSS FLOOR AREA		GROSS CONSTRUCTION AREA (GCA) ABOVE GRADE:			47179.6 m²	507837.0 ft	
Level	GCA, m2	GCA, sf	GFA Exclusion, m2	GFA Exclusion, sf	GFA, m2	GFA, sf	TOTAL GROSS FLOOR AREA	A (GFA):  *as definied in Z	ZBL 569-2013	41251.7 m²	444029.5 ft
Fround Floor	3987.9 m²	42925.9 ft <sup>2</sup>	518.1 m²	5577.2 ft²	3469.8 m <sup>2</sup>	37348.6 ft²	RESIDENTIAL GFA:			38054.4 m²	409613.6 ft
evel02 evel03	1476.8 m <sup>2</sup>	15895.7 ft <sup>2</sup>	145.0 m <sup>2</sup> 1580.2 m <sup>2</sup>	1560.6 ft²	1331.8 m <sup>2</sup>	14335.1 ft² 9101.6 ft²	RETAIL GFA:			939.2 m²	10109.6 ft²
evel03 evel04	2425.8 m <sup>2</sup> 2245.3 m <sup>2</sup>	26110.8 ft <sup>2</sup> 24168.1 ft <sup>2</sup>	147.3 m <sup>2</sup>	17009.2 ft² 1585.3 ft²	845.6 m <sup>2</sup> 2098.0 m <sup>2</sup>	22582.8 ft²	GROCERY STORE	GFA:		2258.1 m²	24306.3 ft²
evel05		23612.2 ft <sup>2</sup>	142.2 m <sup>2</sup>	1530.4 ft²	2051.5 m <sup>2</sup>	22081.8 ft²	POPS AREA:			353.9 m²	3809.4 ft²
evel06	2193.6 m <sup>2</sup>	23612.2 ft <sup>2</sup>	142.2 m²	1530.4 ft²	2051.5 m <sup>2</sup>	22081.8 ft²	LOT AREA:			7,724 m <sup>2</sup>	
.evel07	2193.6 m <sup>2</sup>	23612.2 ft <sup>2</sup>	142.2 m <sup>2</sup>	1530.4 ft²	2051.5 m <sup>2</sup>	22081.8 ft²	CONVEYANCES AREA:			168m²	
.evel08 .evel09	2193.6 m <sup>2</sup> 2193.6 m <sup>2</sup>	23612.2 ft <sup>2</sup> 23612.2 ft <sup>2</sup>	142.2 m <sup>2</sup> 142.2 m <sup>2</sup>	1530.4 ft <sup>2</sup>	2051.5 m <sup>2</sup> 2051.5 m <sup>2</sup>	22081.8 ft² 22081.8 ft²	ADJUSTED LOT AREA:	Total Salable	e / above ground GCA	7,556m <sup>2</sup> 80.7%	
evel10	2193.6 m <sup>2</sup>	23612.2 ft <sup>2</sup>	142.2 m <sup>2</sup>	1530.4 ft²	2051.5 m <sup>2</sup>	22081.8 ft <sup>2</sup>	TOTAL EFFICIENCY  NUMBER OF RESIDENTIAL U			620	
evel11		21356.9 ft <sup>2</sup>	142.2 m²	1531.0 ft²	1841.9 m²	19825.9 ft²	NUMBER OF RESIDENTIAL C			13 (2%)	
evel12		21356.9 ft <sup>2</sup>	142.2 m <sup>2</sup>	1531.0 ft²	1841.9 m <sup>2</sup>	19825.9 ft²	Nomber of Altorbabee	<u> </u>			
evel13 evel14/MPH	1984.1 m <sup>2</sup> 1086.9 m <sup>2</sup>	21356.9 ft <sup>2</sup> 11699.1 ft <sup>2</sup>	142.2 m <sup>2</sup> 368.1 m <sup>2</sup>	1531.0 ft <sup>2</sup> 3962.3 ft <sup>2</sup>	1841.9 m <sup>2</sup> 718.8 m <sup>2</sup>	19825.9 ft² 7736.8 ft²	UNIT COUNT AND N	IIV			
evel15	778.1 m <sup>2</sup>	8374.9 ft <sup>2</sup>	68.1 m <sup>2</sup>	732.8 ft²	710.0 m <sup>2</sup>	7642.2 ft²	ONIT COONT AND IV	IIIA			
∟evel16	778.1 m²	8374.9 ft <sup>2</sup>	68.1 m <sup>2</sup>	732.8 ft²	710.0 m <sup>2</sup>	7642.2 ft²	BUILDING A*: *SEE UNIT MIX DIAGRAM GRE		Desidentia		
evel17	778.1 m <sup>2</sup>	8374.9 ft <sup>2</sup>	68.1 m <sup>2</sup>	732.8 ft²	710.0 m <sup>2</sup>	7642.2 ft²	Level	Residential GFA, m2	Residentia GFA, sf	Count	
evel18 evel19	778.1 m <sup>2</sup>	8374.9 ft <sup>2</sup>	68.1 m <sup>2</sup>	732.8 ft² 732.8 ft²	710.0 m <sup>2</sup> 710.0 m <sup>2</sup>	7642.2 ft² 7642.2 ft²	Level04	659.8 m²	7102.2 ft²	11	
evel20	778.1 m <sup>2</sup>	8374.9 ft <sup>2</sup>	68.1 m <sup>2</sup>	732.8 ft²	710.0 m <sup>2</sup>	7642.2 ft <sup>2</sup>	Level05	659.8 m <sup>2</sup>	7102.2 ft²	11	
evel21	778.1 m²	8374.9 ft <sup>2</sup>	68.1 m²	732.8 ft²	710.0 m <sup>2</sup>	7642.2 ft <sup>2</sup>	Level06	659.8 m <sup>2</sup>	7102.2 ft <sup>2</sup>	11	
evel22	778.1 m <sup>2</sup>	8374.9 ft <sup>2</sup>	68.1 m <sup>2</sup>	732.8 ft²	710.0 m <sup>2</sup>	7642.2 ft²	Level07 Level08	659.8 m <sup>2</sup>	7102.2 ft <sup>2</sup> 7102.2 ft <sup>2</sup>	11	_
evel23	778.1 m <sup>2</sup>	8374.9 ft <sup>2</sup>	68.1 m <sup>2</sup>	732.8 ft²	710.0 m <sup>2</sup>	7642.2 ft²	Level09	659.8 m <sup>2</sup>	7102.2 ft <sup>2</sup>	12	
evel24 .evel25	778.1 m <sup>2</sup>	8374.9 ft <sup>2</sup>	68.1 m <sup>2</sup>	732.8 ft² 732.8 ft²	710.0 m <sup>2</sup> 710.0 m <sup>2</sup>	7642.2 ft² 7642.2 ft²	Level10	659.8 m <sup>2</sup>	7102.2 ft²	12	
evel26	778.1 m <sup>2</sup>	8374.9 ft <sup>2</sup>	68.1 m <sup>2</sup>	732.8 ft <sup>2</sup>	710.0 m <sup>2</sup>	7642.2 ft <sup>2</sup>	Level11	659.8 m²	7102.2 ft²	12	
evel27	778.1 m²	8374.9 ft <sup>2</sup>	68.1 m <sup>2</sup>	732.8 ft²	710.0 m <sup>2</sup>	7642.2 ft²	Level12	659.8 m <sup>2</sup>	7102.2 ft²	12	
evel28	778.1 m²	8374.9 ft <sup>2</sup>	68.1 m <sup>2</sup>	732.8 ft²	710.0 m <sup>2</sup>	7642.2 ft²	Level13 Level14/MPH	659.8 m <sup>2</sup>	7102.2 ft <sup>2</sup> 7102.2 ft <sup>2</sup>	12 12	
evel29	778.1 m <sup>2</sup>	8374.9 ft <sup>2</sup>	68.1 m <sup>2</sup>	732.8 ft²	710.0 m <sup>2</sup>	7642.2 ft²	Level15	659.8 m <sup>2</sup>	7102.2 ft <sup>2</sup>	12	
evel30 evel31	778.1 m <sup>2</sup>	8374.9 ft <sup>2</sup>	68.1 m <sup>2</sup>	732.8 ft² 732.8 ft²	710.0 m <sup>2</sup> 710.0 m <sup>2</sup>	7642.2 ft² 7642.2 ft²	Level16	659.8 m <sup>2</sup>	7102.2 ft <sup>2</sup>	12	
evel32	778.1 m <sup>2</sup>	8374.9 ft <sup>2</sup>	68.1 m <sup>2</sup>	732.8 ft <sup>2</sup>	710.0 m <sup>2</sup>	7642.2 ft²	Level17	659.8 m <sup>2</sup>	7102.2 ft²	12	
evel33	778.1 m <sup>2</sup>	8374.9 ft <sup>2</sup>	68.1 m <sup>2</sup>	732.8 ft²	710.0 m <sup>2</sup>	7642.2 ft <sup>2</sup>	Level18	659.8 m <sup>2</sup>	7102.2 ft²	12	
evel34	778.1 m²	8374.9 ft <sup>2</sup>	68.1 m²	732.8 ft²	710.0 m <sup>2</sup>	7642.2 ft²	Level19 Level20	659.8 m <sup>2</sup>	7102.2 ft <sup>2</sup> 7102.2 ft <sup>2</sup>	12 12	
evel35	778.1 m²	8374.9 ft <sup>2</sup>	68.1 m <sup>2</sup>	732.8 ft²	710.0 m <sup>2</sup>	7642.2 ft²	Level21	659.8 m <sup>2</sup>	7102.2 ft <sup>2</sup>	12	
IPH rand total	503.5 m <sup>2</sup>	5419.6 ft <sup>2</sup> 507837.0 ft <sup>2</sup>	459.8 m <sup>2</sup>	4948.7 ft <sup>2</sup> 63807.5 ft <sup>2</sup>	43.7 m <sup>2</sup> 41251.7 m <sup>2</sup>	470.9 ft² 444029.5 ft²	Level22	659.8 m <sup>2</sup>	7102.2 ft <sup>2</sup>	12	
irand total	47 17 9.0 111	307037.0 IL	3927.9 III	03007.3 11	41231.7 111	444029.3 It	Level23	659.8 m²	7102.2 ft <sup>2</sup>	12	
DEFINITIONS				CAR PARKING			Level24	659.8 m <sup>2</sup>	7102.2 ft²	12	
DEI INITIONS				Level Visitor Parking Visitor Parking Car-Share Required Provided P1 86 33 2			Level25 Level26	659.8 m <sup>2</sup>	7102.2 ft <sup>2</sup> 7102.2 ft <sup>2</sup>	12 12	_
From the City of Toronto ZBL 569-201							Level27	659.8 m <sup>2</sup>	7102.2 ft <sup>2</sup>	12	
In the Residential Zone category, the the area in the building used for: (A) parking, loading and bicy	cle parking below established	d grade;					Level28	659.8 m²	7102.2 ft²	12	
grade;	and required bicycle parking s ms, electrical, utility, mechanic			*required visitor parking = 2 + (0.05 per unit)			Level29	659.8 m <sup>2</sup>	7102.2 ft <sup>2</sup>	12	
the basement; (D) shower and change facili law for required bicycle parking spaces	ities and bicycle maintenance s; [ By-law: 839-2022 ]	facilities required by this f	3у-	Level	Residential Parking Provided		Level30	659.8 m <sup>2</sup>	7102.2 ft <sup>2</sup>	12	
(E) indoor amenity space rec (F) elevator shafts; (G) garbage shafts;	ulred by this By-law;			P2 16 P1 28	62 8		Level31 Level32	659.8 m <sup>2</sup>	7102.2 ft <sup>2</sup> 7102.2 ft <sup>2</sup>	12 12	
(H) mechanical penthouse; a exit stairwells in the build					90		Level33	659.8 m <sup>2</sup>	7102.2 ft <sup>2</sup>	12	$\dashv$
Floor Space Index Calculation				Total Parking Provided			Level34	659.8 m²	7102.2 ft²	12	
In the Residential Zone category, the fl	floor space index: ding, is the result of the gross	floor area of a building		27	78		Level35	659.8 m <sup>2</sup>	7102.2 ft <sup>2</sup>	12	
(B) for a residential building, floor area, plus the area of an attic des 10.5.40.40(2) minus the areas listed in	other than an apartment build cribed in regulation 10.5.40.4	ding, is the result of the grido(1) and subject to regula	oss tion	LOADING PRO	VISIONS		BUILDING A UNIT MIX:	21114.1 m <sup>2</sup>	227270.5 ft	<sup>2</sup>  379	
and (C) for an apartment building	g, is the result of the gross floo	oor area, minus the areas o		. = . =			Name Cour	nt Unit Mix	Average Area	, m2 Avera	ge Area,
aparament banding noted in regulation	10.0.40.40(4), divided by the c	(C) for an apartment building, is the result of the gross floor area, minus the areas of an apartment building listed in regulation 10.5.40.40(4), divided by the area of the lot.			SPACE	1x TYPE 'A' LOADING SPACE 1x TYPE 'B' LOADING SPACE			55.6 m <sup>2</sup>		·
Green Roof Statistics			1x TYPE 'C' LOADING SPACES 1x TYPE 'G' LOADING SPACE			UNIT 1BD 155	41% 5	)J.U III	598.21	ft²	
Green Roof Statistics				1x TYPE 'G' LOADING			UNIT 2BD 96	25% 6	69.1 m²	598.2 t	ft²
	Num 2 15 1 2 2		oposed	1x TYPE 'G' LOADING : 4x PUDO PARKING SP	PACES		UNIT 2BD 96 UNIT 3 BD 37	25% 6 10% 8	69.1 m² 81.7 m²	598.21 744.01 879.41	ft² ft²
Gross Floor Area, as defined in C Total Roof Area (m²)		468 423	379.5 m <sup>2</sup> 31.57 m <sup>2</sup>	1x TYPE 'G' LOADING	PACES		UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91	25% 6 10% 8 24% 3	69.1 m <sup>2</sup> 31.7 m <sup>2</sup> 31.2 m <sup>2</sup>	598.2 f 744.0 f 879.4 f 336.2 f	ft² ft² ft²
Gross Floor Area, as defined in Co Total Roof Area (m²) Area of Residential Private Rooftop Outdoor Amenity S	Terraces (m²) Space, <i>if in a Residential Bui</i>	468 423 390	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 0.04 m <sup>2</sup> 76.17 m <sup>2</sup>	1x TYPE 'G' LOADING : 4x PUDO PARKING SP	PACES		UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379	25% 6 10% 8 24% 3	69.1 m² 81.7 m²	598.21 744.01 879.41	ft² ft² ft²
Gross Floor Area, as defined in C Total Roof Area (m²) Area of Residential Private	Terraces (m²) Space, if in a Residential Bui Devices (m²)	468 423 390 <i>iilding</i> (m <sup>2</sup> ) 137 0 m N/A 246	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 0.04 m <sup>2</sup> 76.17 m <sup>2</sup> 1 <sup>2</sup> 1.55.36 m <sup>2</sup>	1x TYPE 'G' LOADING 4x PUDO PARKING SP	PACES		UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91	25% 6 10% 8 24% 3 2 CHED AREA Residential	69.1 m <sup>2</sup> 31.7 m <sup>2</sup> 31.2 m <sup>2</sup> 237.6 m <sup>2</sup>	598.2 f 744.0 f 879.4 f 336.2 f 2557.8	ft² ft² ft²
Gross Floor Area, as defined in C Total Roof Area (m²) Area of Residential Private Rooftop Outdoor Amenity S Area of Renewable Energy Tower (s)Roof Area with flo Total Available Roof Space (m²) Green Roof Coverage Coverage of Available Roof Space	Terraces (m²) Space, if in a Residential Buil Devices (m²) oor plate less than 750 m² ce (m²)	468 423 390 iilding (m²) 137 0 m N/A  Required Pr 1479.22 m² 198	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 9.04 m <sup>2</sup> (6.17 m <sup>2</sup> 1 <sup>2</sup> 1	1x TYPE 'G' LOADING 4x PUDO PARKING SP *REFER TO FLOOR PLANS FO	PACES OR LOCATIONS  Indoor Amer	3	UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379 BUILDING B*: *SEE UNIT MIX DIAGRAM HAT	25% 6 10% 8 24% 3 2 CHED AREA Residential GFA, m2	89.1 m <sup>2</sup> 81.7 m <sup>2</sup> 81.2 m <sup>2</sup> 237.6 m <sup>2</sup> Residentia GFA, sf	598.2 f 744.0 f 879.4 f 336.2 f 2557.8	ft² ft² ft²
Gross Floor Area, as defined in C Total Roof Area (m²)  Area of Residential Private Rooftop Outdoor Amenity S Area of Renewable Energy Tower (s)Roof Area with flo Total Available Roof Space (m²)  Green Roof Coverage	Terraces (m²) Space, if in a Residential Buil Devices (m²) oor plate less than 750 m² ce (m²)	468 423 390 iilding (m²) 137 0 m N/A  Required Pr 1479.22 m² 198	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 30.04 m <sup>2</sup> 76.17 m <sup>2</sup> 76.36 m <sup>2</sup>	1x TYPE 'G' LOADING 4x PUDO PARKING SP  *REFER TO FLOOR PLANS FO  AMENITY  Level Name	Indoor Amer	Required	UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379 BUILDING B*: "SEE UNIT MIX DIAGRAM HAT Level Level02	25% 6 10% 8 24% 3 2 CHED AREA Residential GFA, m2 963.7 m <sup>2</sup>	89.1 m <sup>2</sup> 81.7 m <sup>2</sup> 81.2 m <sup>2</sup> 237.6 m <sup>2</sup> Residentia GFA, sf 10373.4 ft <sup>2</sup>	598.2 f 744.0 f 879.4 f 336.2 f 2557.8 Count	ft² ft² ft²
Gross Floor Area, as defined in O Total Roof Area (m²) Area of Residential Private Rooftop Outdoor Amenity S Area of Renewable Energy Tower (s)Roof Area with flo Total Available Roof Space (m²) Green Roof Coverage Coverage of Available Roof Space	Terraces (m²) Space, if in a Residential Bui v Devices (m²) por plate less than 750 m² ce (m²) ce (%)	468 423 390 iilding (m²) 137 0 m N/A  Required Pr 1479.22 m² 198	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 9.04 m <sup>2</sup> (6.17 m <sup>2</sup> 1 <sup>2</sup> 1	1x TYPE 'G' LOADING 4x PUDO PARKING SP *REFER TO FLOOR PLANS FO	Indoor Amer	, , , , , , , , , , , , , , , , , , ,	UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379 BUILDING B*: *SEE UNIT MIX DIAGRAM HAT	25% 6 10% 8 24% 3 2 CHED AREA Residential GFA, m2	89.1 m <sup>2</sup> 81.7 m <sup>2</sup> 81.2 m <sup>2</sup> 237.6 m <sup>2</sup> Residentia GFA, sf 10373.4 ft <sup>2</sup> 7704.2 ft <sup>2</sup>	598.2 f 744.0 f 879.4 f 336.2 f 2557.8 Count 14	ft² ft² ft²
Gross Floor Area, as defined in O Total Roof Area (m²) Area of Residential Private Rooftop Outdoor Amenity S Area of Renewable Energy Tower (s)Roof Area with flo Total Available Roof Space (m²) Green Roof Coverage Coverage of Available Roof Space Coverage of Available Roof Space Number of Affordable Un 3.2. Unit Mix, Size and Location	Terraces (m²) Space, if in a Residential Bui Devices (m²) por plate less than 750 m² ce (m²) ce (m²) ce (%)	468 423 390 137 0 m N/A  Required Pr 1479.22 m² 195 60 % 80	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 9.04 m <sup>2</sup> (6.17 m <sup>2</sup> 1 <sup>2</sup> 1	1x TYPE 'G' LOADING 4x PUDO PARKING SP  *REFER TO FLOOR PLANS FO  AMENITY  Level Name	Indoor Amer Provided Y 1265.9 m²	Required 1240 m² *required area (2sm per unit) = 1240m².	UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379 BUILDING B*: SEE UNIT MIX DIAGRAM HAT  Level Level02 Level03 Level04 Level05	25% 6 10% 8 24% 3 2 CHED AREA  Residential GFA, m2 963.7 m² 715.7 m²	89.1 m <sup>2</sup> 81.7 m <sup>2</sup> 81.2 m <sup>2</sup> 237.6 m <sup>2</sup> Residentia GFA, sf 10373.4 ft <sup>2</sup>	598.2 f 744.0 f 879.4 f 336.2 f 2557.8 Count 14	ft² ft² ft²
Gross Floor Area, as defined in G Total Roof Area (m²)  Area of Residential Private Rooftop Outdoor Amenity S Area of Renewable Energy Tower (s)Roof Area with flo Total Available Roof Space (m²) Green Roof Coverage Coverage of Available Roof Spac Coverage of Available Roof Spac Number of Affordable Un 3.2. Unit Mix, Size and Location	Terraces (m²) Space, if in a Residential Bui v Devices (m²) por plate less than 750 m² ce (m²) ce (%)	468	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 9.04 m <sup>2</sup> (6.17 m <sup>2</sup> 1 <sup>2</sup> 1	1x TYPE 'G' LOADING 4x PUDO PARKING SP  *REFER TO FLOOR PLANS FO  AMENITY  Level Name	Indoor Amer Provided Y 1265.9 m²  Outdoor Ame	Required  1240 m²  *required area (2sm per unit) = 1240m².  Pointy Outdoor Amenity	UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379 BUILDING B*: "SEE UNIT MIX DIAGRAM HAT  Level Level02 Level03 Level04 Level05 Level06	25% 6 10% 8 24% 3 2 CHED AREA  Residential GFA, m2 963.7 m² 715.7 m² 1285.5 m² 1239.0 m² 1239.0 m²	89.1 m <sup>2</sup> 81.7 m <sup>2</sup> 81.2 m <sup>2</sup> 237.6 m <sup>2</sup> Residentia GFA, sf 10373.4 ft <sup>2</sup> 7704.2 ft <sup>2</sup> 13837.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup>	598.2 f 744.0 f 879.4 f 336.2 f 2557.8 al Count 14 11 24 23 23	ft² ft² ft²
Gross Floor Area, as defined in O Total Roof Area (m²) Area of Residential Private Rooftop Outdoor Amenity S Area of Renewable Energy Tower (s)Roof Area with flo Total Available Roof Space (m²) Green Roof Coverage Coverage of Available Roof Spac Coverage of Available Roof Spac Number of Affordable Un 3.2. Unit Mix, Size and Location	Terraces (m²)  Space, if in a Residential Buil  Devices (m²)  por plate less than 750 m²  ce (m²)  ce (m²)  ce (%)  hits:  ould contain one bedroom and shorerage of all one bedroom affordab  (+/- 5%). Bachelor units are not accompany to the short of th	468	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 9.04 m <sup>2</sup> (6.17 m <sup>2</sup> 1 <sup>2</sup> 1	1x TYPE 'G' LOADING AX PUDO PARKING SP  'REFER TO FLOOR PLANS FOR  AMENITY  Level Name Level03 AMENITY  Level Name Level03 OUTDOO	Indoor Amer Provided Y 1265.9 m²  Outdoor Amer Provided DR 1574.2 m²	Required  1240 m <sup>2</sup> *required area (2sm per unit) = 1240m <sup>2</sup> .  enity Outdoor Amenity	UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379 BUILDING B*: SEE UNIT MIX DIAGRAM HAT  Level Level02 Level03 Level04 Level05 Level06 Level07	25% 6 10% 8 24% 3 2 Residential GFA, m2 963.7 m² 715.7 m² 1285.5 m² 1239.0 m² 1239.0 m²	89.1 m <sup>2</sup> 81.7 m <sup>2</sup> 81.2 m <sup>2</sup> 237.6 m <sup>2</sup> Residentia GFA, sf 10373.4 ft <sup>2</sup> 7704.2 ft <sup>2</sup> 13837.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup>	598.2 f 744.0 f 879.4 f 336.2 f 2557.8 1 1 14 11 24 23 23 23	ft² ft² ft²
Gross Floor Area, as defined in C Total Roof Area (m²) Area of Residential Private Rooftop Outdoor Amenity S Area of Renewable Energy Tower (s)Roof Area with flo Total Available Roof Space (m²) Green Roof Coverage Coverage of Available Roof Space Coverage of Available Roof Space Number of Affordable Un 3.2. Unit Mix, Size and Location 3.2.1. 40% of all housing units she (48.7 sq m) in area. The av 590 square feet (55 sq m) ( 3.2.2. 40% of all units should cont m) in area. The average siz 3.2.3. 15% of all units should cont m) in area. The average siz	Terraces (m²) Space, if in a Residential Buil Devices (m²) Por plate less than 750 m²  Ce (m²) Ce (m²) Ce (%)  hits:  could contain one bedroom and should be reage of all one bedroom units should tain three bedrooms and should be red of all two bedrooms and should be red of three bedrooms and should be red of three bedrooms and should be red of three bedroom units should the red of three	468   423   390   137   0 m   N/A   246   Required   Pro   1479.22 m²   195   60 %   80   80   1479.25 sq ft   60 %   80   1479.25 sq ft   60	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 9.04 m <sup>2</sup> 76.17 m <sup>2</sup> 15.36 m <sup>2</sup> 15.36 m <sup>2</sup> 15.39 m <sup>2</sup> 17 %	1x TYPE 'G' LOADING AX PUDO PARKING SP  *REFER TO FLOOR PLANS FOR AMENITY  Level Name Level03 AMENITY  Level Name	Indoor Amer Provided Y 1265.9 m²  Outdoor Amer Provided DR 1574.2 m²	Required  1240 m²  *required area (2sm per unit) = 1240m².  enity Outdoor Amenity Required	UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379 BUILDING B*: SEE UNIT MIX DIAGRAM HAT  Level Level02 Level03 Level04 Level05 Level06 Level07 Level08	25% 6 10% 8 24% 3 2 CHED AREA  Residential GFA, m2 963.7 m² 715.7 m² 1285.5 m² 1239.0 m² 1239.0 m² 1239.0 m² 1239.0 m²	Residentia GFA, sf 13336.3 ft² 13336.3 ft² 13336.3 ft² 13336.3 ft² 13336.3 ft² 13336.3 ft²	598.2 f 744.0 f 879.4 f 336.2 f 2557.8 1 1 14 11 24 23 23 23 23	ft² ft² ft²
Gross Floor Area, as defined in C Total Roof Area (m²)  Area of Residential Private Rooftop Outdoor Amenity S Area of Renewable Energy Tower (s)Roof Area with flo Total Available Roof Space (m²)  Green Roof Coverage Coverage of Available Roof Space Coverage of Available Roof Space  Number of Affordable Un  3.2. Unit Mix, Size and Location  3.2.1. 40% of all housing units she (48.7 sg m) in area. The aver spo square feet (55 sg m) (  3.2.2. 40% of all units should cont m) in area. The average siz  3.2.3. 15% of all units should cont m) in area. The average siz  3.2.4. 5% of all units should cont m) in area. The average siz	Terraces (m²) Space, if in a Residential Buil Devices (m²) Por plate less than 750 m²  Ce (m²) Ce (m²) Ce (%)  hits:  could contain one bedroom and should be reage of all one bedroom units should tain three bedrooms and should be red of all two bedrooms and should be red of three bedrooms and should be red of three bedrooms and should be red of three bedroom units should the red of three	### ### ##############################	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 9.04 m <sup>2</sup> 76.17 m <sup>2</sup> 15.36 m <sup>2</sup> 15.36 m <sup>2</sup> 15.39 m <sup>2</sup> 17 %	1x TYPE 'G' LOADING AX PUDO PARKING SP  'REFER TO FLOOR PLANS FOR  AMENITY  Level Name Level03 AMENITY  Level Name Level03 OUTDOO	Indoor Amer Provided Y 1265.9 m²  Outdoor Amer Provided DR 1574.2 m²	Required  1240 m²  *required area (2sm per unit) = 1240m².  enity Outdoor Amenity Required	UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379 BUILDING B*: SEE UNIT MIX DIAGRAM HAT  Level Level02 Level03 Level04 Level05 Level06 Level07	25% 6 10% 8 24% 3 2 Residential GFA, m2 963.7 m² 715.7 m² 1285.5 m² 1239.0 m² 1239.0 m²	89.1 m <sup>2</sup> 81.7 m <sup>2</sup> 81.2 m <sup>2</sup> 237.6 m <sup>2</sup> Residentia GFA, sf 10373.4 ft <sup>2</sup> 7704.2 ft <sup>2</sup> 13837.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup>	598.2 f 744.0 f 879.4 f 336.2 f 2557.8 1 1 14 11 24 23 23 23	ft² ft² ft²
Gross Floor Area, as defined in Gross Floor Area (m²)  Area of Residential Private Rooftop Outdoor Amenity S Area of Renewable Energy Tower (s)Roof Area with flot Total Available Roof Space (m²)  Green Roof Coverage Coverage of Available Roof Space Coverage of Available Roof Space Coverage of Available Roof Space  Number of Affordable Un  3.2. Unit Mix, Size and Location  3.2.1. 40% of all housing units she (48.7 sq m) in area. The av 590 square feet (555 qm) (  3.2.2. 40% of all units should cont m) in area. The average siz  3.2.3. 15% of all units should cont m) in area. The average siz  3.2.4. 5% of all units should cont m) in area. The average siz  3.2.5. Family Units: a. Larger family units a street with front outs	Terraces (m²)  Space, if in a Residential Buil  Devices (m²)  por plate less than 750 m²  ce (m²)  ce (m²)  ce (%)  hits:  culd contain one bedroom and should contain one bedroom affordab (+/-5%). Bachelor units are not accurate the bedroom units should be read to the bedroom units should be accorded to the bedroom units should be accorded to the bedroom units should be an four bedroom units should be are of all four bedroom units should be are preferred either on the ground tdoor space; or	468	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 9.04 m <sup>2</sup> 76.17 m <sup>2</sup> 15.36 m <sup>2</sup> 15.36 m <sup>2</sup> 15.39 m <sup>2</sup> 17 %	1x TYPE 'G' LOADING AX PUDO PARKING SP  *REFER TO FLOOR PLANS FOR AMENITY  Level Name Level Name Level Name Level Name Level OJ OUTDOO AMENITY	Indoor Amer Provided Y 1265.9 m²  Outdoor Amer Provided DR 1574.2 m² Y	Required  1240 m²  *required area (2sm per unit) = 1240m².  Pointy Outdoor Amenity Required  1240 m²	UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379 BUILDING B*: "SEE UNIT MIX DIAGRAM HAT  Level Level02 Level03 Level04 Level05 Level06 Level07 Level08 Level09	25% 6 10% 8 24% 3 24% 3 Residential GFA, m2 963.7 m² 715.7 m² 1285.5 m² 1239.0 m² 1239.0 m² 1239.0 m² 1239.0 m² 1239.0 m²	Residentia GFA, sf 13336.3 ft² 13336.3 ft² 13336.3 ft² 13336.3 ft² 13336.3 ft² 13336.3 ft²	598.2 f 744.0 f 879.4 f 336.2 f 2557.8  Count 14 11 24 23 23 23 23 23 23	ft² ft² ft²
Gross Floor Area, as defined in C Total Roof Area (m²) Area of Residential Private Rooftop Outdoor Amenity S Area of Renewable Energy Tower (s)Roof Area with flo Total Available Roof Space (m²) Green Roof Coverage Coverage of Available Roof Space Coverage of Available Roof Space Coverage of Available Roof Space  Number of Affordable Un  3.2. Unit Mix, Size and Location 3.2.1. 40% of all housing units she (48.7 sq m) in area. The av 590 square feet (55 sq m) ( 3.2.2. 40% of all units should cont m) in area. The average siz 3.2.3. 15% of all units should cont m) in area. The average siz 3.2.4. 5% of all units should cont m) in area. The average siz 3.2.5. Family Units: a. Larger family units street with front out b. In building types the well on a podium (a c. Family units should c. E. Family units	Terraces (m²) Space, if in a Residential Buil Devices (m²) por plate less than 750 m²  ce (m²) ce (m²) ce (%)  hits:  ould contain one bedroom and should be reage of all one bedroom affordab (+/- 5%). Bachelor units are not accept the search of the search of the search of all two bedroom units should be read all two bedroom units should be read all two bedroom units should be read in four bedroom units should be read in four bedroom units should be an in four bedroom units should be an in four bedroom units should be an in four bedroom units should be are preferred either on the ground tdoor space; or at don't permit this configuration, fa shove grade) with an outdoor terral thave proportionately larger living, thave proportionately larger living, thave proportionately larger living, that have proportionately larger living, that have proportionately larger living, the search of the sea	468	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 9.04 m <sup>2</sup> 76.17 m <sup>2</sup> 15.36 m <sup>2</sup> 15.36 m <sup>2</sup> 15.39 m <sup>2</sup> 17 %	1x TYPE 'G' LOADING AX PUDO PARKING SP  'REFER TO FLOOR PLANS FOR  AMENITY  Level Name Level03 AMENITY  Level Name Level03 OUTDOO	Indoor Amer Provided Y 1265.9 m²  Outdoor Amer Provided DR 1574.2 m² Y	Required  1240 m²  *required area (2sm per unit) = 1240m².  Pointy Outdoor Amenity Required  1240 m²	UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379 BUILDING B*: "SEE UNIT MIX DIAGRAM HAT  Level Level02 Level03 Level04 Level05 Level06 Level07 Level08 Level09 Level10 Level11 Level12	25% 6 10% 8 10% 8 24% 3  Residential GFA, m2 963.7 m² 715.7 m² 1285.5 m² 1239.0 m² 1032.2 m²	89.1 m <sup>2</sup> 81.7 m <sup>2</sup> 81.2 m <sup>2</sup> 237.6 m <sup>2</sup> Residentia GFA, sf 10373.4 ft <sup>2</sup> 7704.2 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 11110.9 ft <sup>2</sup>	598.2 f 744.0 f 879.4 f 336.2 f 2557.8  Count 14 11 24 23 23 23 23 23 18 18	ft² ft² ft²
Gross Floor Area, as defined in O Total Roof Area (m²)  Area of Residential Private Rooftop Outdoor Amenity S Area of Renewable Energy Tower (s)Roof Area with flo Total Available Roof Space (m²)  Green Roof Coverage Coverage of Available Roof Space Coverage of Available Roof Space  Number of Affordable Un  3.2. Unit Mix, Size and Location  3.2.1. 40% of all housing units she (48.7 sg m) in area. The aver spo square feet (55 sq m) (  3.2.2. 40% of all units should cont m) in area. The average siz  3.2.3. 15% of all units should cont m) in area. The average siz  3.2.4. 5% of all units should cont m) in area. The average siz  3.2.5. Family Units: a. Larger family units a street with front out b. In building types the well on a podium (a c. Family units should d. Outdoor private am features for family s  3.2.6. Bedrooms should be a mini	Terraces (m²)  Space, if in a Residential Buil  Devices (m²)  por plate less than 750 m²  ce (m²)  ce (m²)  ce (%)  nits:  ould contain one bedroom and shot rerage of all one bedroom affordable (+/- 5%). Bachelor units are not act tain two bedrooms and should be ree of all two bedroom units should tain three bedroom units should be ree of all four bedroom units should be ree of all four bedroom units should be ree of all four bedroom units should be are preferred either on the ground todoor space; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe all premits the proportionately larger living, entity spaces such as patios, balco suites.	and the street (+/- 5%).  In oless than 150 sq ft (60 sq to be 125 square feet (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq to be	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 9.04 m <sup>2</sup> 76.17 m <sup>2</sup> 15.36 m <sup>2</sup> 15.36 m <sup>2</sup> 15.39 m <sup>2</sup> 17 %	1x TYPE 'G' LOADING AX PUDO PARKING SP  *REFER TO FLOOR PLANS FOR AMENITY  Level Name Level Name Level Name Level Name Level OJ OUTDOO AMENITY	Indoor Amer Provided Y 1265.9 m²  Outdoor Amer Provided OR 1574.2 m²  G* KKONSITE	Required  1240 m²  *required area (2sm per unit) = 1240m².  Pointy Outdoor Amenity Required  1240 m²	UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379 BUILDING B*: *SEE UNIT MIX DIAGRAM HAT  Level Level02 Level03 Level04 Level05 Level06 Level07 Level08 Level09 Level10 Level10	25% 6 10% 8 24% 3 24% 3 Residential GFA, m2 963.7 m² 715.7 m² 1285.5 m² 1239.0 m² 1032.2 m² 1032.2 m²	89.1 m <sup>2</sup> 81.7 m <sup>2</sup> 81.2 m <sup>2</sup> 237.6 m <sup>2</sup> Residentia GFA, sf 10373.4 ft <sup>2</sup> 7704.2 ft <sup>2</sup> 13837.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 11110.9 ft <sup>2</sup>	598.2 f 744.0 f 879.4 f 336.2 f 2557.8  11	ft² ft² ft²
Gross Floor Area, as defined in C Total Roof Area (m²)  Area of Residential Private Rooftop Outdoor Amenity S Area of Renewable Energy Tower (s)Roof Area with flo Total Available Roof Space (m²)  Green Roof Coverage Coverage of Available Roof Space Coverage of Available Roof Space Coverage of Available Roof Space  Number of Affordable Un  3.2. Unit Mix, Size and Location  3.2.1. 40% of all housing units she (48.7 sq m) in area. The average siz space (as a constant of the co	Terraces (m²)  Space, if in a Residential Buil  Devices (m²)  por plate less than 750 m²  ce (m²)  ce (m²)  ce (%)  nits:  ould contain one bedroom and shot rerage of all one bedroom affordable (+/- 5%). Bachelor units are not act tain two bedrooms and should be ree of all two bedroom units should tain three bedroom units should be ree of all four bedroom units should be ree of all four bedroom units should be ree of all four bedroom units should be are preferred either on the ground todoor space; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe all premits the proportionately larger living, entity spaces such as patios, balco suites.	and the street (+/- 5%).  In oless than 150 sq ft (60 sq to be 125 square feet (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq to be	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 9.04 m <sup>2</sup> 76.17 m <sup>2</sup> 15.36 m <sup>2</sup> 15.36 m <sup>2</sup> 15.39 m <sup>2</sup> 17 %	1x TYPE 'G' LOADING AX PUDO PARKING SP  *REFER TO FLOOR PLANS FOR AMENITY  Level Name Level03 AMENITY  Level Name Level03 OUTDOO AMENITY  BIKE PARKING *EXCLUDES EXISTING BIKE SHARE PARKING REQUIRED BIKE PARKING Land Use Units / GF	Indoor Amer Provided Y 1265.9 m²  Outdoor Amer Provided OR 1574.2 m² Y  OSPACES: FA Short Term Lo	Required  1240 m²  *required area (2sm per unit) = 1240m².  Penity Outdoor Amenity Required  1240 m²  *required area (2sm per unit) = 1240m².  Penity Required  1240 m²  Spaces Required	UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379 BUILDING B*: SEE UNIT MIX DIAGRAM HAT  Level Level02 Level03 Level04 Level05 Level06 Level07 Level08 Level09 Level10 Level11 Level12 Level13	25% 6 10% 8 10% 8 24% 3  Residential GFA, m2 963.7 m² 715.7 m² 1285.5 m² 1239.0 m² 1032.2 m²	89.1 m <sup>2</sup> 81.7 m <sup>2</sup> 81.2 m <sup>2</sup> 237.6 m <sup>2</sup> Residentia GFA, sf 10373.4 ft <sup>2</sup> 7704.2 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 11110.9 ft <sup>2</sup>	598.2 f 744.0 f 879.4 f 336.2 f 2557.8  11	ft² ft² ft²
Gross Floor Area, as defined in O Total Roof Area (m²)  Area of Residential Private Rooftop Outdoor Amenity S Area of Renewable Energy Tower (s)Roof Area with flo Total Available Roof Space (m²)  Green Roof Coverage Coverage of Available Roof Space Coverage of Available Roof Space  Number of Affordable Un  3.2. Unit Mix, Size and Location  3.2.1. 40% of all housing units she (48.7 sg m) in area. The aver 590 square feet (55 sq m) (  3.2.2. 40% of all units should cont m) in area. The average siz  3.2.3. 15% of all units should cont m) in area. The average siz  3.2.4. 5% of all units should cont m) in area. The average siz  3.2.5. Family Units: a. Larger family units a street with front out b. In building types the well on a podium (a c. Family units should d. Outdoor private am features for family s  3.2.6. Bedrooms should be a mini	Terraces (m²)  Space, if in a Residential Buil  Devices (m²)  por plate less than 750 m²  ce (m²)  ce (m²)  ce (%)  nits:  ould contain one bedroom and shot rerage of all one bedroom affordable (+/- 5%). Bachelor units are not act tain two bedrooms and should be ree of all two bedroom units should tain three bedroom units should be ree of all four bedroom units should be ree of all four bedroom units should be ree of all four bedroom units should be are preferred either on the ground todoor space; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe all premits the proportionately larger living, entity spaces such as patios, balco suites.	and the street (+/- 5%).  In oless than 150 sq ft (60 sq to be 125 square feet (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq to be	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 9.04 m <sup>2</sup> 76.17 m <sup>2</sup> 15.36 m <sup>2</sup> 15.36 m <sup>2</sup> 15.39 m <sup>2</sup> 17 %	1x TYPE 'G' LOADING AX PUDO PARKING SP  *REFER TO FLOOR PLANS FO  AMENITY  Level Name Level03 AMENITY  Level Name Level03 OUTDOO AMENITY  BIKE PARKING  *EXCLUDES EXISTING BIKE SHARE PARKING REQUIRED BIKE PARKING	Indoor Amer Provided Y 1265.9 m²  Outdoor Amer Provided OR 1574.2 m² Y  Outdoor Amer Provided OR 1574.2 m² Y  Outdoor Amer Provided OR 1574.2 m² Y	Required  1240 m²  *required area (2sm per unit) = 1240m².  Penity Outdoor Amenity Required  1240 m²  *required area (2sm per unit) = 1240m².  ong Term* Spaces Required per unit = 558 682 Spaces	UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379 BUILDING B*: SEE UNIT MIX DIAGRAM HAT  Level Level02 Level03 Level04 Level05 Level06 Level07 Level08 Level09 Level10 Level11 Level12 Level13	25% 6 10% 8 24% 3 2 Residential GFA, m2 963.7 m² 715.7 m² 1285.5 m² 1239.0 m² 13495.6 m²	89.1 m <sup>2</sup> 81.7 m <sup>2</sup> 81.2 m <sup>2</sup> 237.6 m <sup>2</sup> Residentia GFA, sf 10373.4 ft <sup>2</sup> 7704.2 ft <sup>2</sup> 13837.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 1145265.4 ft	598.2 f 744.0 f 879.4 f 336.2 f 2557.8  Count 14 11 24 23 23 23 23 23 18 18 18 18 18	ft² ft² ft² 3 ft²
Gross Floor Area, as defined in O Total Roof Area (m²)  Area of Residential Private Rooftop Outdoor Amenity S Area of Renewable Energy Tower (s)Roof Area with flo Total Available Roof Space (m²)  Green Roof Coverage Coverage of Available Roof Space Coverage of Available Roof Space  Number of Affordable Un  3.2. Unit Mix, Size and Location  3.2.1. 40% of all housing units she (48.7 sg m) in area. The aver 590 square feet (55 sq m) (  3.2.2. 40% of all units should cont m) in area. The average siz  3.2.3. 15% of all units should cont m) in area. The average siz  3.2.4. 5% of all units should cont m) in area. The average siz  3.2.5. Family Units: a. Larger family units a street with front out b. In building types the well on a podium (a c. Family units should d. Outdoor private am features for family s  3.2.6. Bedrooms should be a mini	Terraces (m²)  Space, if in a Residential Buil  Devices (m²)  por plate less than 750 m²  ce (m²)  ce (m²)  ce (%)  nits:  ould contain one bedroom and shot rerage of all one bedroom affordable (+/- 5%). Bachelor units are not act tain two bedrooms and should be ree of all two bedroom units should tain three bedroom units should be ree of all four bedroom units should be ree of all four bedroom units should be ree of all four bedroom units should be are preferred either on the ground todoor space; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe above grade; or at don't permit this configuration, fe all premits the proportionately larger living, entity spaces such as patios, balco suites.	and the street (+/- 5%).  In oless than 150 sq ft (60 sq to be 125 square feet (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq ft (+/- 5%).  In oless than 1100 sq ft (102 sq to be 1775 sq to be	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 9.04 m <sup>2</sup> 76.17 m <sup>2</sup> 15.36 m <sup>2</sup> 15.36 m <sup>2</sup> 15.39 m <sup>2</sup> 17 %	1x TYPE 'G' LOADING AX PUDO PARKING SP  *REFER TO FLOOR PLANS FOR AMENITY  Level Name Level03 AMENITY  Level Name Level03 OUTDOC AMENITY  BIKE PARKING  *EXCLUDES EXISTING BIKE SHARE PARKING REQUIRED BIKE PARKING Land Use Units / GR Residential 620 Units	Indoor Amer Provided Y 1265.9 m²  Outdoor Amer Provided OR 1574.2 m²  Y  Outdoor Amer Provided OR 1574.2 m²	Required  1240 m²  *required area (2sm per unit) = 1240m².  Pointy Outdoor Amenity Required  1240 m²  *required area (2sm per unit) = 1240m².  In the second of the second	UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379 BUILDING B*: SEE UNIT MIX DIAGRAM HAT  Level Level02 Level03 Level04 Level05 Level06 Level07 Level08 Level09 Level10 Level11 Level12 Level13	25% 6 10% 8 24% 3 24% 3 Residential GFA, m2 963.7 m² 715.7 m² 1285.5 m² 1239.0 m² 1032.2 m² 1032.2 m² 1032.2 m² 1032.2 m²	89.1 m <sup>2</sup> 81.7 m <sup>2</sup> 81.2 m <sup>2</sup> 237.6 m <sup>2</sup> Residentia GFA, sf 10373.4 ft <sup>2</sup> 7704.2 ft <sup>2</sup> 13837.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 1145265.4 ft	598.2 f 744.0 f 879.4 f 336.2 f 2557.8  Count 14 11 24 23 23 23 23 23 18 18 18 18 18	ft² ft² ft² 3 ft²
Gross Floor Area, as defined in O Total Roof Area (m²)  Area of Residential Private Rooftop Outdoor Amenity S Area of Renewable Energy Tower (s)Roof Area with flo Total Available Roof Space (m²)  Green Roof Coverage Coverage of Available Roof Space Coverage of Available Roof Space  Number of Affordable Un  3.2. Unit Mix, Size and Location  3.2.1. 40% of all housing units she (48.7 sg m) in area. The aver 590 square feet (55 sq m) (  3.2.2. 40% of all units should cont m) in area. The average siz  3.2.3. 15% of all units should cont m) in area. The average siz  3.2.4. 5% of all units should cont m) in area. The average siz  3.2.5. Family Units: a. Larger family units a street with front out b. In building types the well on a podium (a c. Family units should d. Outdoor private am features for family s  3.2.6. Bedrooms should be a mini	Terraces (m²)  Space, if in a Residential Buil  Devices (m²)  por plate less than 750 m²  ce (m²)  ce	defining (m²) 137  o m  N/A  Required Pre  1479.22 m² 199  60 % 80.  sould be no less than 525 sq ft blue units will be no less than coeptable.  In o less than 650 sq ft (60 sq broze for feet (+/-5%).  In o less than 900 sq ft (84 sq be 1000 square feet (+/-5%).  In o less than 1100 sq ft (102 sq broze feet (+/-5%).  In o less than 1100 sq	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 9.04 m <sup>2</sup> 76.17 m <sup>2</sup> 15.36 m <sup>2</sup> 15.36 m <sup>2</sup> 15.39 m <sup>2</sup> 17 %	1x TYPE 'G' LOADING AX PUDO PARKING SP  *REFER TO FLOOR PLANS FO  AMENITY  Level Name Level03 AMENITY  Level Name Level03 OUTDOC AMENITY  BIKE PARKING  *EXCLUDES EXISTING BIKE SHARE PARKING  REQUIRED BIKE PARKING  REQUIRED BIKE PARKING  Residential 620 Units / GF  Residential 620 Units  Retail / Grocery 3,197.1 m²  At Grade N/A  Totals:  *15% OF REQUIRED LONG-TERMI RESIDENTIAL BIT  *15% OF REQUIRED LONG-TERMI RESIDENTIAL B	Indoor Amer	Required   1240 m²	UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379 BUILDING B*: SEE UNIT MIX DIAGRAM HAT  Level Level02 Level03 Level04 Level05 Level06 Level07 Level08 Level09 Level10 Level11 Level12 Level13  BUILDING B UNIT MIX: Name Cour UNIT 1BD 111 UNIT 2BD 56	25% 6 10% 8 24% 3  Residential GFA, m2 963.7 m² 715.7 m² 1285.5 m² 1239.0 m² 14395.6 m² 1032.2 m² 1032.2 m² 1032.2 m² 1032.2 m²	89.1 m <sup>2</sup> 81.7 m <sup>2</sup> 81.2 m <sup>2</sup> 237.6 m <sup>2</sup> Residentia GFA, sf 10373.4 ft <sup>2</sup> 7704.2 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 145265.4 ft  Average Area	598.2 f 744.0 f 879.4 f 336.2 f 2557.8  Count 14 11 24 23 23 23 23 23 18 18 18 18 18 18 22 41 Average	ft² ft² ft² 3 ft² ge Area,
Gross Floor Area, as defined in O Total Roof Area (m²)  Area of Residential Private Rooftop Outdoor Amenity S Area of Renewable Energy Tower (s)Roof Area with flo Total Available Roof Space (m²)  Green Roof Coverage Coverage of Available Roof Space Coverage of Available Roof Space  Number of Affordable Un  3.2. Unit Mix, Size and Location  3.2.1. 40% of all housing units should cont (48.7 sq m) in area. The average siz  3.2.2. 40% of all units should cont m) in area. The average siz  3.2.3. 15% of all units should cont m) in area. The average siz  3.2.4. 5% of all units should cont m) in area. The average siz  3.2.5. Family Units: a. Larger family units a street with front out b. In building types the well on a podium (a c. Family units well on a podium (a c. Family units should d. Outdoor private am features for family s  3.2.6. Bedrooms should be a mini and include operable windo	Terraces (m²) Space, if in a Residential Buil Devices (m²) oor plate less than 750 m² ce (m²) ce (m²) ce (%)  Inits:  Ould contain one bedroom and she verage of all one bedroom affordab (+/- 5%). Bachelor units are not act tain two bedrooms and should be tae of all two bedroom units should be tain four bedroom units should be are preferred either on the ground tdoor space; or at don't permit this configuration, fa above grade) with an ouldoor terrace thave proportionately larger living, unity spaces such as patios, balco suites.  DUSING UNIT I	defining (m²) 137  o m  N/A  Required Pre  1479.22 m² 199  60 % 80.  sould be no less than 525 sq ft blue units will be no less than coeptable.  In o less than 650 sq ft (60 sq broze for feet (+/-5%).  In o less than 900 sq ft (84 sq be 1000 square feet (+/-5%).  In o less than 1100 sq ft (102 sq broze feet (+/-5%).  In o less than 1100 sq	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 9.04 m <sup>2</sup> 76.17 m <sup>2</sup> 15.36 m <sup>2</sup> 15.36 m <sup>2</sup> 15.39 m <sup>2</sup> 17 %	1x TYPE 'G' LOADING AX PUDO PARKING SP  *REFER TO FLOOR PLANS FOR AMENITY  Level Name Level03 AMENITY  Level Name Level03 OUTDOO AMENITY  BIKE PARKING  *EXCLUDES EXISTING BIKE SHARE PARKING  REQUIRED BIKE PARKING  REQUIRED BIKE PARKING  Residential 620 Units / GF  Residential 620 Units  Retail / Grocery 3,197.1 m²  At Grade N/A  Totals:	Indoor Amer Provided Y 1265.9 m²  Outdoor Amer Provided Y 1265.9 m²  Outdoor Amer Provided OR 1574.2 m²  Y  NG SPACES: FA Short Term Lo 0.2 per unit = 124 0.9 p 3 + 0.3 per 100 m² 0.2 p 13 10 Spaces 147 Spaces 565	Required   1240 m²	UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379 BUILDING B*: SEE UNT MIX DIAGRAM HAT  Level Level02 Level03 Level04 Level05 Level06 Level07 Level08 Level09 Level10 Level11 Level12 Level13  BUILDING B UNIT MIX: Name Cour UNIT 1BD 111 UNIT 2BD 56 UNIT 3 BD 25	25% 6 10% 8 24% 3  Residential GFA, m2 963.7 m² 715.7 m² 1285.5 m² 1239.0 m²	89.1 m <sup>2</sup> 81.7 m <sup>2</sup> 81.2 m <sup>2</sup> 237.6 m <sup>2</sup> Residentia GFA, sf 10373.4 ft <sup>2</sup> 7704.2 ft <sup>2</sup> 13837.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 145265.4 ft  Average Area 61.7 m <sup>2</sup> 64.6 m <sup>2</sup> 92.1 m <sup>2</sup>	598.2 f 744.0 f 879.4 f 336.2 f 2557.8  Count 14 11 24 23 23 23 23 23 18 18 18 18 18 18 991.8 f	ft² ft² ft² 3 ft² ge Area, ft² ft²
Gross Floor Area, as defined in C Total Roof Area (m²) Area of Residential Private Rooftop Outdoor Amenity S Area of Renewable Energy Tower (s)Roof Area with flo Total Available Roof Space (m²)  Green Roof Coverage Coverage of Available Roof Space Coverage of Available Roof Space  Number of Affordable Un  3.2. Unit Mix, Size and Location 3.2.1. 40% of all housing units she (48.7 sq m) in area. The av 590 square feet (55 sq m) ( 3.2.2. 40% of all units should cont m) in area. The average siz 3.2.3. 15% of all units should cont m) in area. The average siz 3.2.4. 5% of all units should cont m) in area. The average siz 3.2.5. Family Units: a. Larger family units street with front out b. In building types th well on a podium (a c. Family units should d. Outdoor private am features for family s 3.2.6. Bedrooms should be a mini and include operable windo	Terraces (m²)  Space, if in a Residential Buil  Devices (m²)  por plate less than 750 m²  ce (m²)  ce	### design of the control of the con	379.5 m <sup>2</sup> 31.57 m <sup>2</sup> 30.04 m <sup>2</sup> 76.17 m <sup>2</sup> 15.36 m <sup>2</sup> 15.36 m <sup>2</sup> 15.36 m <sup>2</sup> 17 m <sup>2</sup> 18 m <sup>2</sup> 19 m <sup>2</sup> 1	1x TYPE 'G' LOADING AX PUDO PARKING SP  *REFER TO FLOOR PLANS FOR AMENITY  Level Name Level03 AMENITY  Level Name Level03 OUTDOC AMENITY  BIKE PARKING  *EXCLUDES EXISTING BIKE SHARE PARKING  REQUIRED BIKE PARKING Retail / Grocery 3,197.1 m² At Grade N/A  Totals:  *15% OF REQUIRED BIKE PARKING  PROVIDED BIKE PARKING STORY  *15% OF REQUIRED LONG-TERM RESIDENTIAL BIVITH EV CHARGING AS PER TOS VA AO 2.5  PROVIDED BIKE PARKING Land Use Short Term	Indoor Amer	Required   1240 m²	UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379 BUILDING B*: SEE UNIT MIX DIAGRAM HAT  Level Level02 Level03 Level04 Level05 Level06 Level07 Level08 Level09 Level10 Level11 Level12 Level13  BUILDING B UNIT MIX: Name Cour UNIT 1BD 111 UNIT 2BD 56 UNIT 3 BD 25 UNIT 4 BD 1	25% 6 10% 8 24% 3 24% 3 2 Residential GFA, m2 963.7 m² 715.7 m² 1285.5 m² 1239.0 m² 1032.2 m² 1032.2 m² 1032.2 m² 1032.2 m² 1032.3 m²	89.1 m <sup>2</sup> 81.7 m <sup>2</sup> 81.2 m <sup>2</sup> 837.6 m <sup>2</sup> Residentia GFA, sf 10373.4 ft <sup>2</sup> 7704.2 ft <sup>2</sup> 13837.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 145265.4 ft  Average Area 61.7 m <sup>2</sup> 64.6 m <sup>2</sup> 92.1 m <sup>2</sup> 126.9 m <sup>2</sup>	598.2 f 744.0 f 879.4 f 336.2 f 2557.8  1	ft² ft² ft² 3 ft² ge Area, ft² ft²
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Gross Floor Area, as defined in Company of Total Roof Area (m²)  Area of Residential Private Rooftop Outdoor Amenity Sarea of Renewable Energy Tower (s)Roof Area with flot Total Available Roof Space (m²)  Green Roof Coverage  Coverage of Available Roof Space Coverage Coverage of Available Roof Space Coverage Coverage of Available Roof Space Coverage Coverage Coverage Coverage Coverage Coverage	Terraces (m²) Space, if in a Residential Buil Devices (m²) por plate less than 750 m²  ce (m²)	dilding (m²) 137 0 m N/A Required Production 1479.22 m² 199 60 % 80.  Required Production 1479.22 m² 199 60 % 100 sq ft (60 sq ft (	786.4 ft <sup>2</sup> Average Area, sf 625.9 ft <sup>2</sup> 786.4 ft <sup>2</sup>	1x TYPE 'G' LOADING AX PUDO PARKING SP  *REFER TO FLOOR PLANS FOR AMENITY  Level Name Level03 AMENITY  Level Name Level03 OUTDOC AMENITY  BIKE PARKING  *EXCLUDES EXISTING BIKE SHARE PARKING  REQUIRED BIKE PARKING Retail / Grocery 3,197.1 m² At Grade N/A  Totals:  *15% OF REQUIRED BIKE PARKING  PROVIDED BIKE PARKING STORY  *15% OF REQUIRED LONG-TERM RESIDENTIAL BIVITH EV CHARGING AS PER TOS VA AO 2.5  PROVIDED BIKE PARKING Land Use Short Term	Indoor Amer	Required   1240 m²	UNIT 2BD 96 UNIT 3 BD 37 UNIT STUDIO 91 379 BUILDING B*: SEE UNIT MIX DIAGRAM HAT  Level Level02 Level03 Level04 Level05 Level06 Level07 Level08 Level10 Level11 Level12 Level13  BUILDING B UNIT MIX: Name Cour UNIT 1BD 111 UNIT 2BD 56 UNIT 3 BD 25 UNIT 4 BD 1 UNIT STUDIO 48 241	25% 6 10% 8 24% 3 24% 3 Residential GFA, m2 963.7 m² 715.7 m² 1285.5 m² 1239.0 m² 1032.2 m² 1032.2 m² 1032.2 m² 1032.2 m² 1032.3 m²	89.1 m <sup>2</sup> 81.7 m <sup>2</sup> 81.2 m <sup>2</sup> 837.6 m <sup>2</sup> Residentia GFA, sf 10373.4 ft <sup>2</sup> 7704.2 ft <sup>2</sup> 13837.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 13336.3 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 11110.9 ft <sup>2</sup> 145265.4 ft  Average Area 61.7 m <sup>2</sup> 64.6 m <sup>2</sup> 92.1 m <sup>2</sup> 126.9 m <sup>2</sup>	598.2 f 744.0 f 879.4 f 336.2 f 2557.8  1	ft² ft² ft² 3 ft² ge Area, ft² ft² ft² ft²
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Prior to commencement of the Work the Contractor shall verify all drawing dimensions, datums, and levels with the Contract Documents and with the conditions on site; ascertain any discrepancies between the site and the Contract Documents, and bring these items to the attention of the Architect for

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OCT 28, 2024 Issued for OPA and ZBA

Issue/Revision

2451-2495 Danforth

2451-2495 Danforth Avenue, Toronto, ON M6R 2J5

Drawing No.

PROJECT STATISTICS

Scale 1:1 Project No. 2216



# **APPENDIX B**

Dye Test Investigation by Aquaflow Technologies



# 226 WILKINSON ROAD, BRAMPTON, ONTARIO L6T 4N7 (905) 792-8169

# COMBINED SEWER INVESTIGATION REPORT DYE TEST

### 100 MM - 450 MM DIAMETER COMBINED SEWERS

### **FOR**

### 2451 - 2495 DANFORTH AVENUE

### CITY OF TORONTO

CONSULTING ENGINEER: CIVIL GO ENG. INC.
CONSULTING ENGINEER'S REPRESENTATIVE:
DANIEL BANCROFT
OWNER: FIRST CAPITAL
OWNER'S REPRESENTATIVE: MADELEINE BRADSHAW

WEDNESDAY, AUGUST 9TH, 2023

### **INDEX:**

- 1. TITLE PAGE AND INDEX
- 2. SUMMARY REPORT AND CONCLUSIONS
- 3. SKETCH OF SEWERS INSPECTED

SEWER CLEANING, VIDEO INSPECTION, INSITU REPAIRS & MUNICIPAL ENGINEERING SERVICES

#### 2. SUMMARY REPORT AND CONCLUSIONS:

The investigation of the combined sewers at 2451 - 2495 Danforth Avenue was carried out by Steven Lostracco, P.Eng. of Aquaflow Technology, and was authorized by Daniel Bancroft of Civil Go Eng. Inc. The investigation was carried out on Wednesday August, 9th, 2023.

The purpose of this report was to determine which municipal sewer the building storm and sanitary drains connect to. Dye testing was carried out to confirm which sewer the building connects to.

- 1. All drains on site connect to the Danforth Avenue 300 mm / 375 mm combined sewer (sewer on the south side of Danforth Avenue). DCB-1, CB-2, CB-3, CB-4, CB-5, all roof drains and the sanitary drains all connect to the combined sewer system.
- 2. Note, all storm drains on the west side of the site connect to the property line STM-MH, then connect to the combined sewer. All sanitary sewers for the site connect to the property line SAN-MH, then connect to the combined sewer.



1. 2451-2495 Danforth Ave



2. Property line STM + SAN MH's

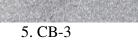


3. Dye observed in 300 mm / 375 mm comb. swr





4. DCB-1







6. Roof drains

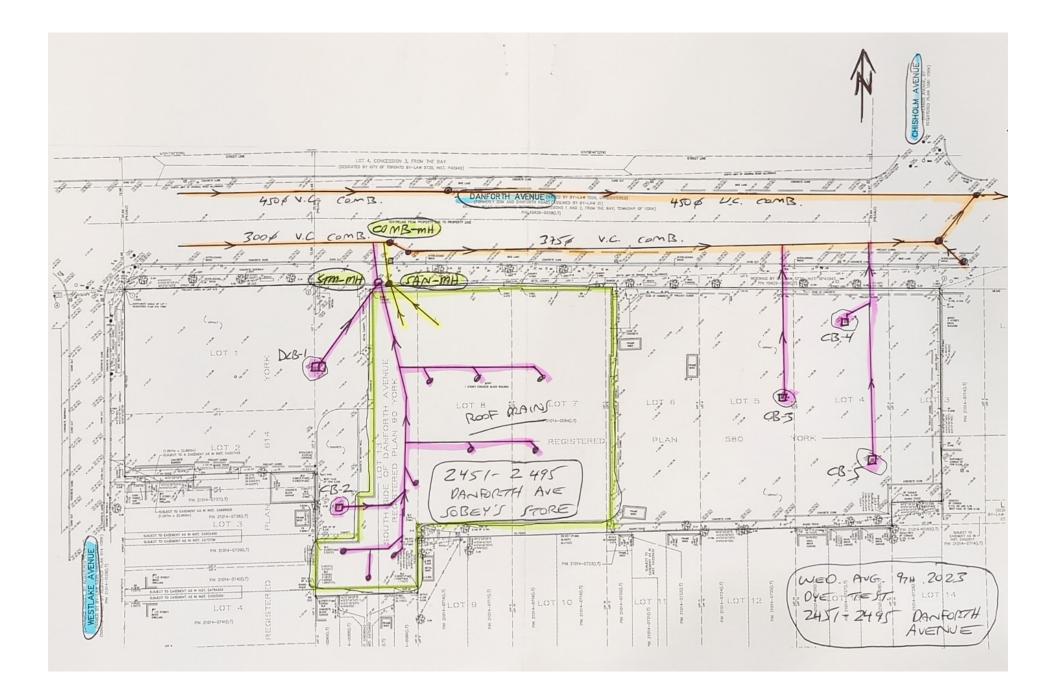
7. Roof drains



8. Flush truck + video van for dye testing

Report Prepared by:

Steven Lostracco, P. Eng.





# **APPENDIX C**

• City Engineering Records – City of Toronto Drawing No. D-110-1



