70 York Street, Suite 801
Toronto, Ontario M5J 1S9
Canada
ghd.com

Our ref: 12643161

December 19, 2024

Julian Baldassarra
GHD Limited
2072 Lakeshore Road
Burlington, Ontario
L7R 1E3

Waste Management Plan for a Mixed-Use Development at 2072 Lakeshore Road in Burlington, Ontario

Dear Julian,

1. Introduction

GHD Limited (GHD) was retained by Acamar Dwellings Corp. to complete a Waste Management Plan in support of a mixed-use development application for 2072 Lakeshore Road, Burlington, Ontario. The proposed development consists of 165 residential units in a 20-storey building (Building A), with seven levels of underground parking and proposed retail space on the ground floor and mezzanine. A description of each of the components of the development is as follows:

– Building A – 20 Storeys with 165 units
– Parking structure – 7 levels of below grade parking
– Retail – 582 m^2 area on the Ground Floor and Mezzanine

The Waste Management Plan has been prepared to address the Region of Halton's waste collection application requirements in relation to the proposed development (layout and use).

The Waste Management Plan was prepared using the Region's Regional Official Plan Guideline that relates to waste management titled *Development Design Guidelines for Source Separation of Solid Waste* (Guideline)[1]. This letter discusses the waste management issues related to the Site and should therefore be considered to be the "Waste Management Plan" to satisfy the approval authority's requirements. The following elements are discussed herein:

– Proposed Site Plan
– Anticipated residential and commercial waste volumes and storage
– Residential and commercial waste collection details
– Best management practices to address common waste-related complaints
– Recommendations

[1] Halton Region. (2014). Development Design Guidelines for Source Separation of Solid Waste

2. Draft waste management plan

2.1 Site plan

As stated above, the proposed development consists of 165 units in one high-rise building with seven levels of underground parking, and a retail area of 582 m^2 on the Ground Floor and Mezzanine (Retail A, see **Figure 1** for Ground Floor Plan and **Figure 3** for Mezzanine Plan). The Ground Floor Site Plan provides a 31 m^2 Waste Staging Area that will be used for waste collection. The Ground Floor Garbage Room and Loading Area provides the configuration of waste bins as required by the Region's Guideline. Waste bins should be labelled by waste stream. The Loading Area provided on the Site Plan is a minimum of 7.5 m high x 6 m wide x 18 m long. The Residential Garbage Room, Retail Garbage Room, Loading Area, and Staging Area are shown with double doors that are required to be a minimum of 2.2 m in width. The Residential Garbage Room is connected to a waste chute system that is accessible to all residents on all floors of the building (see **Figure 3** for Tower Typical Floor Plan). The termination of the three-chute system is labelled in the Residential Garbage Room on the Site Plan. It is recommended that sufficient space be provided below each chute to ensure that waste bins are able to fit below their respective waste stream chute. Since the residential waste storage area will have a compactor system, for safety reasons, residents will not have access to this area. This is in keeping with the Guideline:

1.9.3.4 Should the design require a Compactor for garbage, the Compactor must be secured at all times with no general access. A Garbage Compactor system may be used with or without a chute system (i.e., through a small garbage access door from the Recyclable Material/Organic Waste room).

Collection vehicle routing

Figure 4 demonstrates the anticipated movement of waste collection vehicles (auto-turn analysis), and that the geometrics of the proposed access route are sufficient to facilitate the safe and unobstructed movement of waste collection vehicles. The auto-turn analysis was completed using the specifications in the Region's Guideline for collection vehicle dimensions and minimum turning radii required for site plan approval. Waste collection vehicles will access the loading and staging areas by entering the Site by taking a left hand turn from Old Lakeshore Road into the Loading Area and exiting the site by continuing straight through the Loading area and onto Lakeshore Road. At the time of collection for safety reasons, it is recommended a barrier be placed to prevent vehicles from accessing the loading area from Lakeshore Road. It is recommended that signage or flashing lights be used during active waste collection to prevent flow of traffic through the loading area.

2.2 Waste volume and storage

Although there are no requirements for demonstrating the volume or types of waste generated, understanding this information assists in determining the appropriate waste bin storage method and capacity requirements.

Residential

The estimated residential waste volumes for Building A were determined by working backwards from the Region's Guideline standards for waste capacity requirements. Halton Region collects 3 cubic yard (cu. yd.) garbage bins, 4 cu. yd. bins for recycling and 95-gallon carts for organics, based on the types of collection vehicles utilized. Based on the number of units and recommendations from Halton Region, GHD completed calculations to determine the minimum number of bins/carts required for garbage, recycling, and organics as well as the bin/cart footprints (see **Attachment 1** for detailed waste capacity calculations). The breakdown is as follows:

Building A (165 Units)

Minimum Number of Bins Required - Residential	Value	Unit
Garbage (compacted)	3	3 cu. yd. bin(s)
Recycling	4	4 cu. yd. bin(s)
Organics	7	95-gallon cart(s)
Total Bin/Cart Footprint Area	43.8 m^2	

It should be noted that the above calculations are all based on public collection.

The Site Plan currently provides a 104 m^2 space for the Residential Garbage Room on the Ground Floor. **Figure 2** provides the configuration of waste bins in the Residential Garbage Room and includes an additional 2 garbage bins, 1 recycling bin, and 4 organics carts.

Per the waste management requirements in the Region's Guideline the following must be included:

– Dedicated storage areas, with enough space to store waste for a minimum of one-week,
– Recyclable and organic waste systems that are as convenient as the garbage system,
– Collection point locations for waste that are accessible to all residents/occupants,
– A water hose connection and floor drain to allow storage areas and waste receptacles to be easily cleaned,
– Adequate and well-maintained mechanical ventilation and cooling mechanisms to suppress odour during periods of hot weather in the waste storage areas,
– A sprinkler and fire prevention system in the waste storage areas, and
– Secure access to the compactor with no general access.

Garbage

– Halton Region recommends using 3 cu. yd. bins for garbage collection. Using the dimensions of a 3 cu. yd. bin included in the Region's Guideline, the total space required for garbage storage is as follows:
    - Building A – 6.8 m^2

Recyclable material

– Halton Region recommends using 4 cu. yd. bins for front end recycling collection, using the dimensions of a 4 cu. yd. bin included in the Region's Guideline, the total space required for recycling storage is as follows:
    - Building A – 11.1 m^2

Organic waste

– Per the Region's Guideline, space allotment for 95-gallon organics carts should be 0.8 m by 1 m per cart. Total storage space is as follows for organic waste:
    - Building A – 5.6 m^2

Bulk waste

The current Site Plan shows a dedicated area located within Building A for the storage of large, bulk waste items. These rooms may not be accessed through the garbage rooms, as garbage rooms are to be restricted to public access for safety reasons due to the three chute compactor system. While the Bulk Waste Rooms provided visually provides sufficient area, it is recommended that the exact area provided be labelled.

Commercial

There are typically no requirements for demonstrating the volume or types of waste generated, however understanding the volume and types of waste generated assist in determining the appropriate level of storage capacity and method of storage. We are using industry standards as a proxy for the Site in order to demonstrate an appropriate storage and collection solution, which is also based on the type of uses proposed.

Pre-consultation with the Region confirmed that the commercial portion of this development is eligible for Halton Region Waste Collection via curbside collection on Lakeshore Road. As such, GHD has calculated the retail waste generation using 95-gallon carts.

Given that the proposed commercial uses are Retail, GHD has calculated that Retail A will generate an estimated 272 L/day of commercial garbage waste and 272 L/day of commercial recycling. This is based on the Gross Floor Area and the typical waste/recycling generation per day (approximately 0.5 L/m^2/day) for commercial (non-food) uses. With this waste and recycling generation in mind, the following number of bins are required for the Commercial Retail uses:

Retail – 582 m^2

Minimum Number of Bins Required – Commercial	Value	Unit
Garbage	6	95-gallon cart(s)
Recycling	6	95-gallon cart(s)
Total Cart Footprint Area	7.5 m^2	

Typical waste storage and collection practices for Commercial developments that are relevant to the proposed development are as follows:

– All waste containers must be housed within a designated area or structure, as appropriate.
– All waste containers must be easily accessible to the user.
– Storage points and collection points should be convenient for both the user and the service crews to access without presenting a risk to health and safety.
– All commercial waste containers will be clearly labelled as such.
– Collection points should be hard-surfaced and should be of a size capable of accommodating the required number of bins so there is no overflow onto the public right of way; and
– Ensure collection contracts are established and executed.

The current Site Plan shows a dedicated Garbage Room that is 35 m^2 for Retail A on the Ground Floor. It is recommended that the provided configuration of bins provide labelling for each waste stream.

2.3 Waste collection

2.3.1 Building A – residential

On the day of collection, an on-site staff member will bring out waste bins from the Building A residential Garbage Rooms, into the Garbage Staging Area for waste pickup. The Loading Area dedicated for waste pick up is accessible through Lakeshore Road. Labelling of the Loading Area must be provided on the Site Plan to show the area measurements, total area, and configuration of waste bins. Signs will be posted to indicate that the area is a waste collection point and that there shall be no parking or blocking of the waste collection containers. An on-site staff member will assist the driver of the waste collection vehicle in accessing the collection point and exiting the Site.

A development must be more than 90 percent occupied before the Region will provide residential waste collection services (collection of front-end garbage bins, recycling carts, organic carts, and bulky waste). In the

interim, the developer is responsible for solid waste management. Therefore, collection of residential waste will be discussed as two phases:

Phase 1 – Pre-90 percent occupancy – schedule and frequency

The developer will be responsible for establishing solid waste collection for residents as an interim measure. Based on number of bins required for the residential units, it is anticipated that the collection frequency will be a minimum of once a week. All collections would occur during the hours of 8:00 a.m. to 5:00 p.m. and will be contracted to a private waste hauler. The collection frequency and hours of collection will be determined and set out in the contract between the private hauler and the developer.

Phase 2 – 90 percent occupancy – schedule and frequency

Once 90 percent occupancy has been achieved, the developer will submit the "Application for Waste collection Services to Halton Region Waste Management Services", which will facilitate the provision of regional solid waste management services. A letter will be provided to all tenants/owners within the development to communicate the details of the waste management system and when collection by the Region will commence.

A "Drive Through Agreement" will be established with Halton Region before collection commences to allow the Region and/or its agents full access to the internal property for the purpose of providing waste collection services.

As per the Region's Guideline, collection of garbage will occur weekly. It is anticipated that recyclable material and organic waste collection will also occur weekly. Collection time and date will be established by the Region.

2.3.2 Commercial

Pre-consultation with the Region confirmed that the commercial portion of this development is eligible for Halton Region Waste Collection. Commercial units will be entitled to cart collection through Halton Region. Carts will be part of the Burlington Business Improvement Area (BIA) collection area. Carts will be collected curbside on Lakeshore Road.

On the day of collection, an on-site staff member will bring out waste bins from the Building A Retail Garbage Room, to the Lakeshore Road Curbside for waste pickup.

Schedule and frequency

Upon occupancy of the retail units, the developer will submit the "Application for Waste collection Services to Halton Region Waste Management Services," which will facilitate the provision of regional solid waste management services. As the commercial units are located in a BIA, prior to occupancy of the retail units, the developer must contact the Region in order to receive the required number of garbage and recycling carts for retail waste disposal, initiating curb side collection for retail waste.

As per the Region's Guideline, curb-side collection of commercial garbage will occur two times per week, on Monday and Friday. It is anticipated that commercial recyclable material will also be collected curbside two times per week on Monday and Friday. For Monday collection days, an on-site staff member will be required to bring out waste carts from the Retail Garbage Area to the dedicated curbside pick-up location no earlier than 5 p.m. Sunday evening and no later than 9 a.m. Monday morning. For Friday collection days, an on-site staff member will be required to bring out waste carts from the Retail Garbage Area to the dedicated curbside pick-up location no earlier than 5 p.m. Thursday evening and no later than 7 a.m. Monday morning.

2.4 Best management practices

In addition to the above, we have provided Best Management Practices (BMPs) that will mitigate any potential issues or complaints from residents as it relates to the management of waste on-site:

Continuous communication with tenants/owners about the waste management system

As stated above, a letter will be provided to all tenants/owners informing them of the waste management system in place and the services provided by the Region. In addition to this, we suggest that quarterly notifications be sent out to tenants/owners indicating issues related to waste management that have been experienced, such as people not sorting waste correctly and providing information and facts promoting waste diversion and reduction.

The lids of the waste storage containers should be kept closed at all times, except when depositing waste/collection is to occur

Keeping the lids securely fastened, (except when depositing waste/ waste collection), will reduce nuisance related effects, such as odour, and attraction of vermin.

Clean up litter from around waste collection point

Waste collection points should be checked for litter after waste has been collected each week.

Noise

Ensure that collection hours are written into the contract with the private waste haulers and are established for normal business hours to reduce the noise effects from back-up beepers.

2.5 Recommendations and conclusions

The following recommendations are provided:

- The Residential and Retail Garbage Rooms should provide bin configurations and labelling of bins for each waste stream (Recycling, Garbage, Organics).
- It is recommended that the Retail Garbage Rooms utilize 95-gallon carts. This includes 6-95-gallon garbage carts and 6-95-gallon recycling carts.
- Provide clear representation of the required space for waste bins under each of their respective waste chutes from the three-chute system.
- Provide the area of the Bulk Waste Room.
- Establish waste collection contract with private waste hauler for residential waste before the development reaches 90 percent occupancy.
- Implement standard waste management BMPs.

By implementing the recommendations set out in this Waste Management Plan, the Region's requirements for a development application as it relates to Waste Management will be satisfied.

Should you have any questions on the above, please do not hesitate to contact us.

Regards,



Erika Brown, MEnv., RPP
Waste & Environmental Planner

416-866-2351
Erika.Brown@ghd.com

Figure 1 Ground Floor

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Issuances

01.	APR.12,2024	ISSUED FOR ZBA SUBMISSION E.C

LAKESHORE ROAD
OLD LAKESHORE ROAD
PEARL STREET
6340 SETBACK FROM CURB TO FACE OF THE BUILDING AT GRADE
8040 SETBACK FROM CURB TO FACE OF THE BUILDING AT GRADE
8310 SETBACK FROM CURB TO FACE OF THE BUILDING AT GRADE
SIAMESE CONNECTIONS
RETAIL LONG TERM BICYCLE PARKING
PROPOSED GAS METER
ACCESS TO LOADING
EXHAUST AIR SHAFT 10 SQ.M
LOADING SERVICE BAY 7.5m (H)x6.0m (W)x18.0m (L)
STAGING AREA 31 m2
OPEN TO ABOVE
UP
SERVICE CORR.
RETAIL ENTRY
RETAIL GARBAGE ROOM 35 m2 (376 ft2)
RESIDENTIAL GARBAGE ROOM 104 m2 (1,110 ft2)
MECHANICAL ROOM 28 m2
SHARED MOVING/ HOLDING
BULK WASTE
STAIRS TRANSFER ABOVE
PROPERTY MANGEMENT OFFICE
C.A.C.F
MAIL ROOM
MAIL MAN
SHORT TERM
A/L
LOBBY 82 m2 (888 ft2)
RETAIL 394 m2 (4,241 ft2) FFE=82.95 m
RETAIL ENTRY
RETAIL ENTRY
EXIT
RESIDENTIAL ENTRY
RESIDENTIAL BICYCLE PARKING
MAIL MAN
EXIT
U/G PARKING ENTRY
ACCESS TO LOADING
15% SLOPE DOWN TO UNDERGROUND LEVEL
7.5%
500 SETBACK
2200 SETBACK
5m x 5m VISIBILITY TRIANGLE AT GRADE
MAX. 45m DISTANCE FROM FIRE HYDRANT TO SIAMESE CONNECTION
FIRE HYDRANT
INTAKE AIR SHAFT 12 SQM
INTAKE AIR SHAFT BELOW
WARNING SYSTEM:
FLASHING WARNING LIGHT TO BE ACTIVATED WHEN TRUCKS ENTER AND EXIT THE SITE. THE SYSTEM TO REMAIN ACTIVATED DURING THE EXIT MANEUVER AND UNTIL THE TRUCK EXITS THE SITE.
WARNING SIGN TO BE MOUNTED BELOW THE FLASH LIGHT.

No.	Date	Description	Issued by

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PHONE. 905.795.2601 FAX. 905.795.2844 WWW.GC-ARCHITECTS.COM

PROPOSED MIXED USE DEVELOPMENT

2072 LAKESHORE RD

BURLINGTON TRINITY POINT ONTARIO

Project Architect :	E.CORAZZA
Assistant Designer :	L.WONG
Drawn By :	S.SAMAREH/O.HADI/W.CHIU
Checked By :	D.BIASE
Plot Date :	Dec 05, 2024
Job #	2069.22

GROUND (1ST) FLOOR

1 : 100

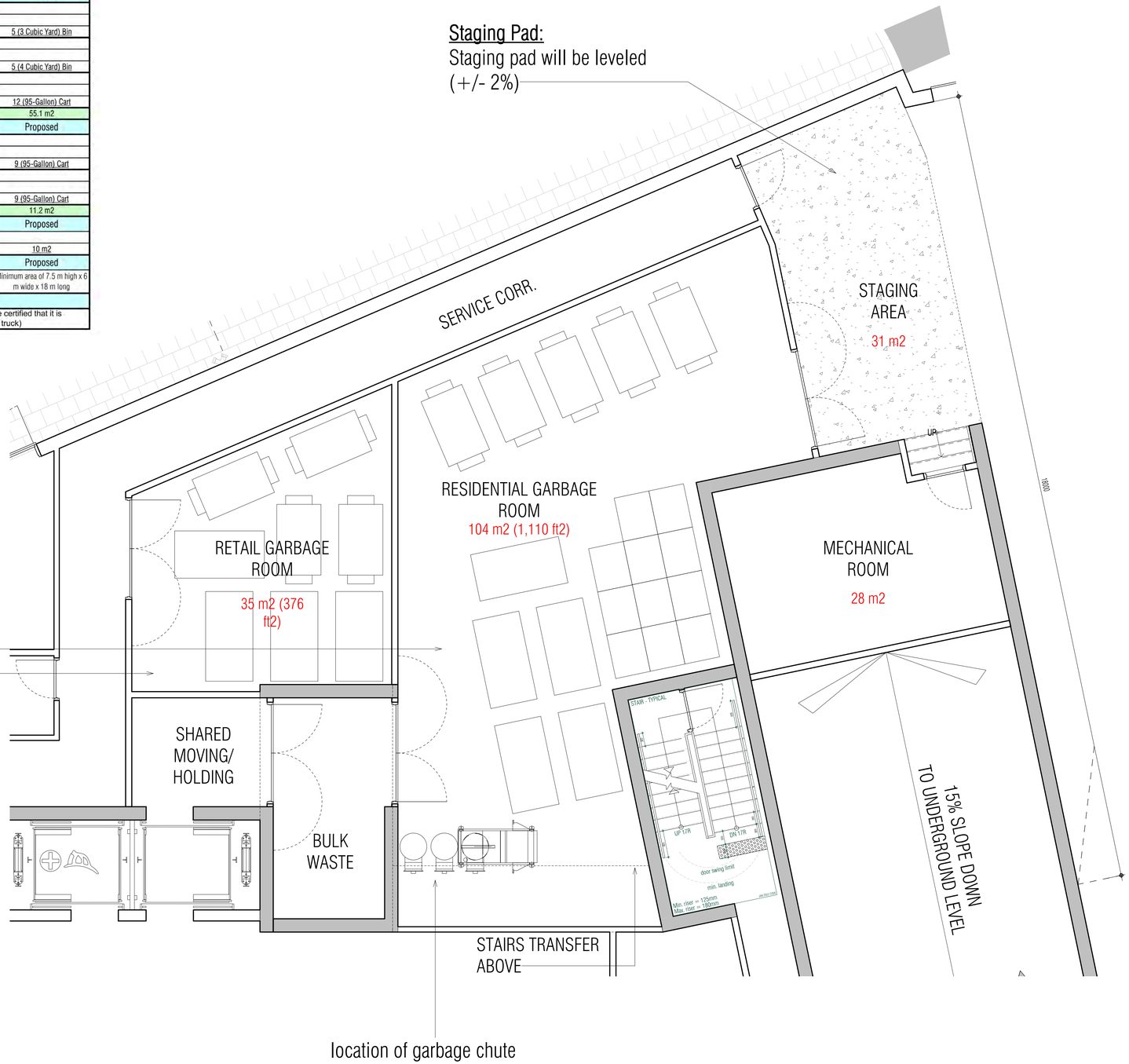
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Figure 2 Waste Requirements

SOLID WASTE MANAGEMENT		Aug.26.2024
As per Development Design Guidelines		Proposed
GARBAGE WASTE - RESIDENTIAL		
	REQUIRED	
	5 (3 Cubic Yard) Bin	5 (3 Cubic Yard) Bin
RECYCLING - RESIDENTIAL		
	REQUIRED	
	5 (4 Cubic Yard) Bin	5 (4 Cubic Yard) Bin
ORGANIC WASTE- RESIDENTIAL		
	REQUIRED	
	12 (95-Gallon) Cart	12 (95-Gallon) Cart
Total Bin/Cart Footprint Area		55.1 m2
As per Development Design Guidelines		Proposed
GARBAGE WASTE - RETAIL		
	REQUIRED	
	9 (95-Gallon) Cart	9 (95-Gallon) Cart
RECYCLING - RETAIL		
	REQUIRED	
	9 (95-Gallon) Cart	9 (95-Gallon) Cart
Total Cart Footprint Area		11.2 m2
BULK STORAGE		Proposed
	REQUIRED	
	10 m2	10 m2
LOADING SPACE		Proposed
	REQUIRED	Minimum area of 7.5 m high x 6 m wide x 18 m long
	Minimum area of 7.5 m high x 6 m wide x 18 m long	
NOTES		
The collection point must be level (change of grade must not be more than +/- 2%) and if applicable, must be certified that it is designed and constructed to support a minimum of 35 tonnes (the weight of a fully loaded waste truck)		

Residential Garbage Room
5 Garbage (compacted) bin
(3 cubic yard/bin)
5 Recycling bin
(4 cubic yard/bin)
11 Organics bin
(95 - gallon/cart)

Retail Garbage Room
4 Garbage (compacted) bin
(95-gallon cart)
4 Recycling bin
(95-gallon cart)



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BURLINGTON

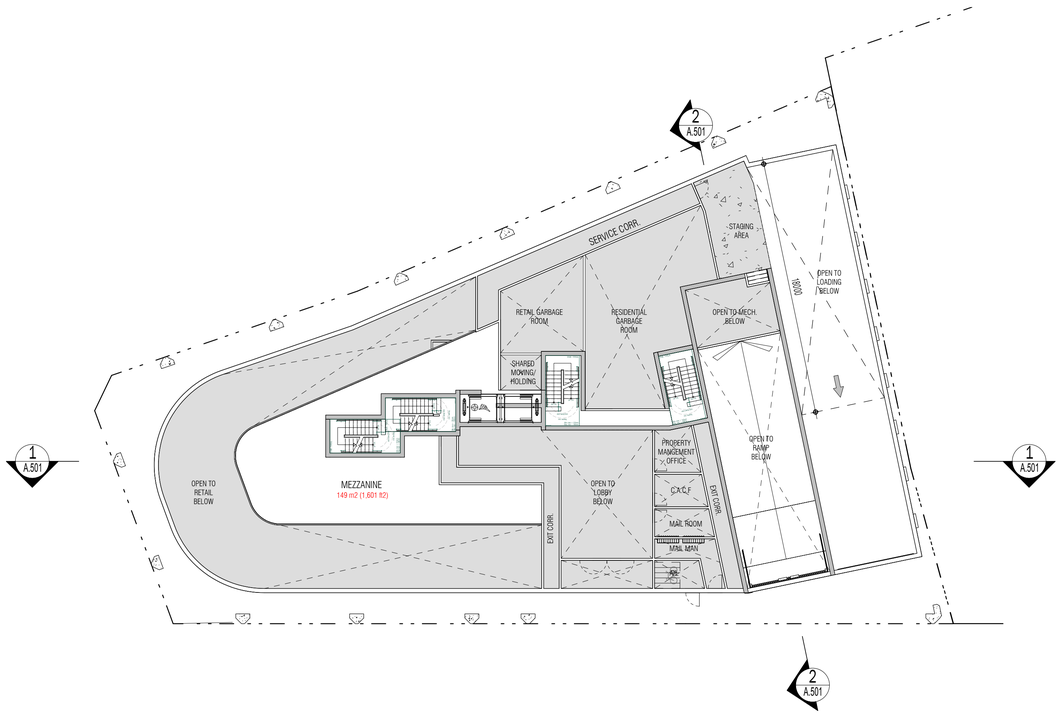
TRINITY POINT

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WASTE MANAGEMENT PLAN

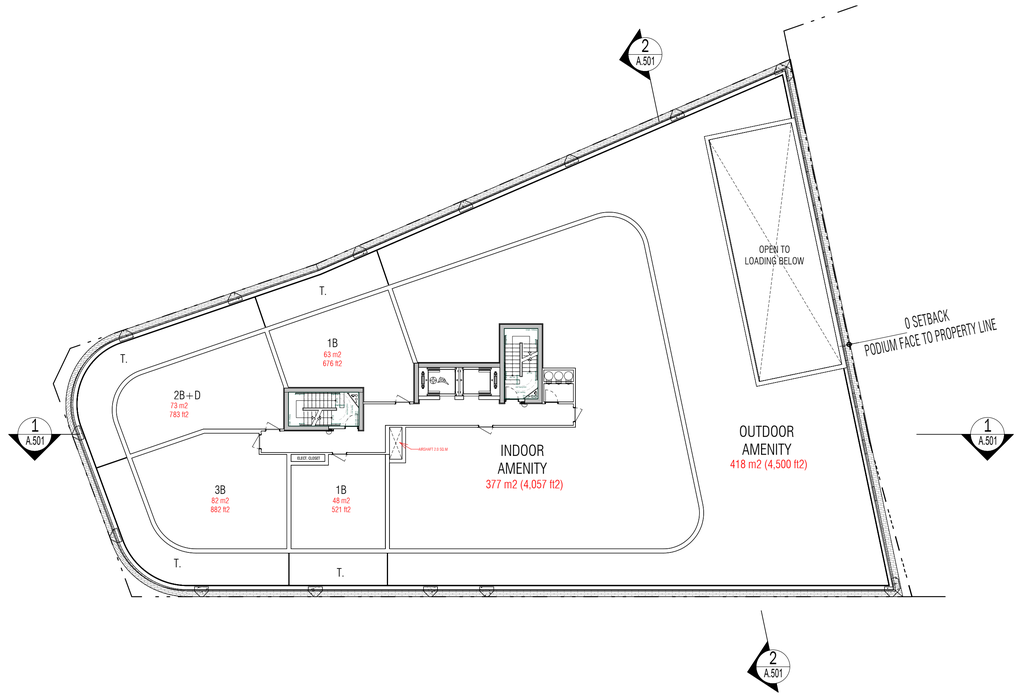
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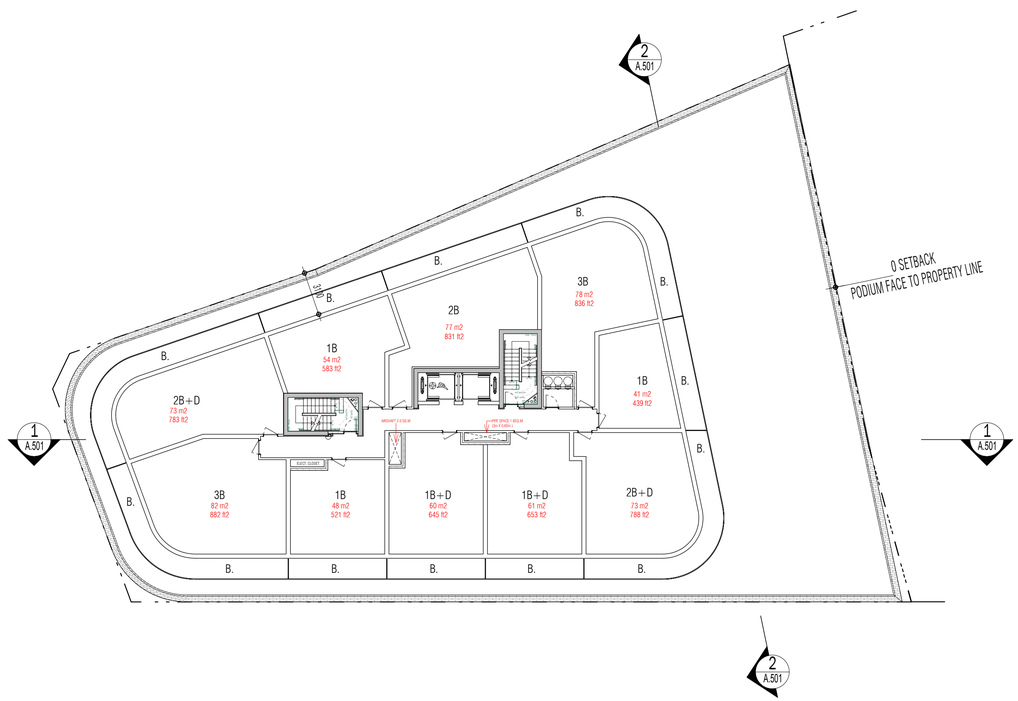
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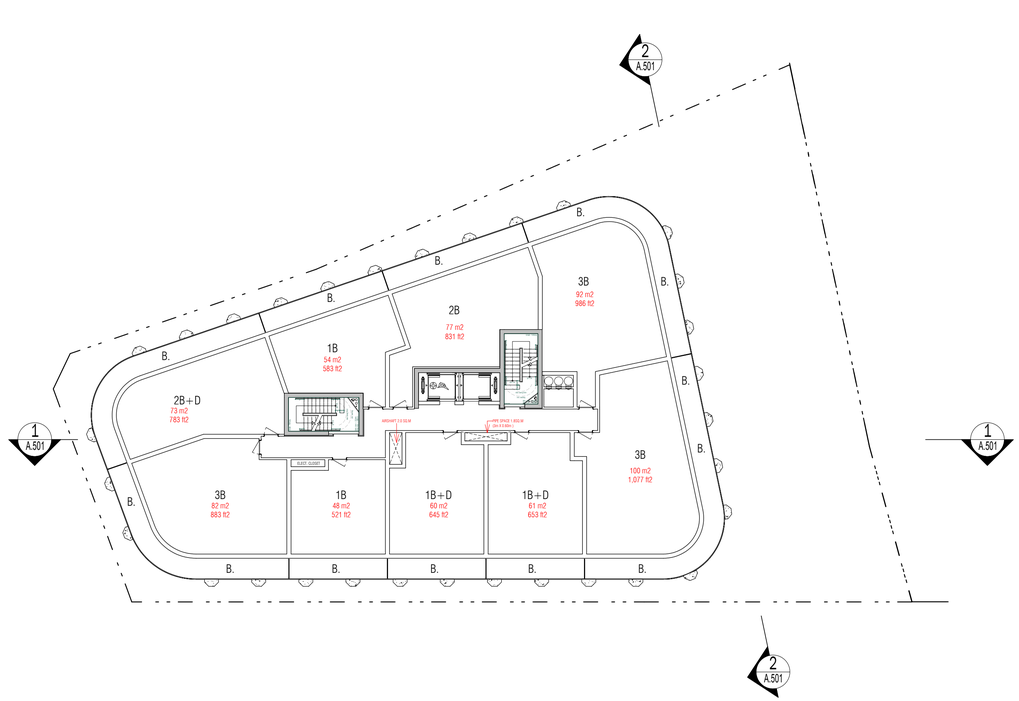
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2 LV. 3 - 10

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4 LV. 11-19

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Figure 3 Floor Plans

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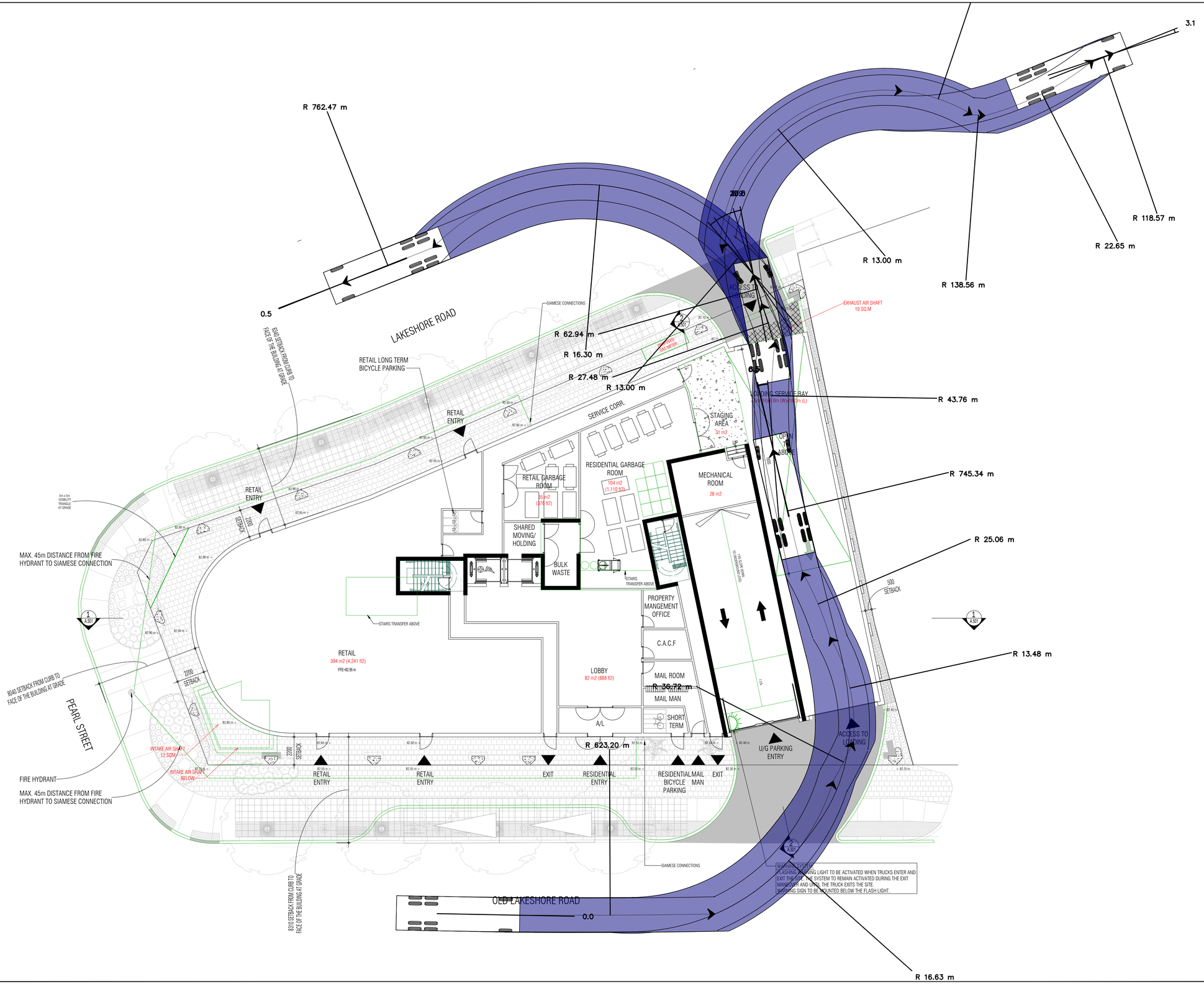
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MEZZANINE - 19TH FLOOR PLAN

1 : 200

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GHD Ltd.
111 Brunel Road, Suite 200
Mississauga, Ontario L4Z 1X3 Canada
T 1 905 712 0510 **F** 1 905 712 0515

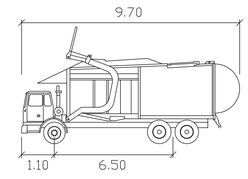
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LICENSED PROFESSIONAL ENGINEER
May. 6, 2024
W.C. MARIA
PROVINCE OF ONTARIO

Figure 4



No.	Issue	Checked	Approved	Date
1	First Submission	W.M	W.M	12/13/24

Author	S.B	Designer	S.B
Drafting Check	W.M	Design Check	W.M
Project Manager	W.M	Project Director	W.M

Client
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Project
-

Date: December 13, 2024
Scale: NTS

Project No.
-

Title
VEHICLE MANEUVERING DIAGRAM - WASTE TRUCK (CIRCULATION)

Size: ANSI D

Sheet No.
AT-101

Attachment 1

Building A - Residential
2072 Lakeshore Rd - Waste Capacity Calculation

Residential Waste Storage Room			
Stats	**Value**	**Unit**	**Comments**
Number of Storeys	20	storeys	
Dwelling Units on Second Floor and Higher	165	units	
Bulk Waste Room Space Requirement	10	m²	Ref #1, A clear and accessible area of 10 square meters within the building that can be used for the storage of larger items such as Bulk Waste, shall be included in the design.
Collection Frequency	Weekly	-	Assumed waste collection frequency

Item	**Value**	**Unit**	**Comments**
Number of Bins Required - Residential			
Garbage (compacted)	3	3 cu. yd. bin(s)	Compacted garbage, Ref #1, one 3 cu. yd. per 80 units, used with Regions and private collection system
Recycling	24	95 gallon cart(s)	Ref #1, (does not compact), one 95 gal (360L) per 7 units, used with Regions collection system
	4	3 cu. yd. bin(s)	606 gallon = 3 cu. yd.
Organics	7	95 gallon cart(s)	Ref #1, (does not compact), one 95 gal (360L) per 25 units, used with Regions collection system
	2	3 cu. yd. bin(s)	606 gallon = 3 cu. yd.
Bin/Cart Footprint			
95 Gallon Cart	0.8	m²	Ref #1, 0.8 m (W) X 1 m (D), may slightly differ from various manufactures
3 Cubic Yard Bin	2.3	m²	Ref #1, 2.03 m (W) X 1.12 m (D), may slightly differ from various manufactures
4 Cubic Yard Bin	2.8	m²	Ref #1, 2.03 m (W) X 1.37 m (D), may slightly differ from various manufactures
Total Footprint Required (Scenario A - bins and carts - Region Collection)			
Garbage (compacted)	6.8	m²	bins
Recycling	11.1	m²	bins
Organics	5.6	m²	carts
Compactor Layout with Bins	18	m²	This may vary by model/ company, 4.5 m (W) X 4 m (L)
Manoeuvre Factor	2.25		Ref #2, this is a consideration to factor in. Allows for manoeuvring and access path ways. The City minimum floor space requirements are provided above
Total Bin/Cart Footprint Required in Residential Waste Storage Room	43.8	m²	(Estimate) Bulk waste room **not** included
Total Footprint Required (Scenario B - bins ONLY - Private Collection)			
Garbage (compacted)	6.8	m²	bins
Recycling	11.1	m²	bins
Organics	4.5	m²	bins
Compactor Layout with Bins	18	m²	This may vary by model/ company, 4.5 m (W) X 4 m (L)
Total Bin/Cart Footprint Required in Residential Waste Storage Room	40.5	m²	(Estimate), this footprint does not include spacing for alleyway or other movement. Bulk waste room **not** included

References

1. Halton Region. (2014). Development Design Guidelines for Source Seperation of Solid Waste. Halton Region. Retrieved from https://www.halton.ca/Repository/Development-Design-Guidelines-for-Source-Separatio
2. City of Richmond. (2018). Commercial and Multi-Family Developments Waste Management Design Guidelines. Retrieved from: https://www.richmond.ca/__shared/assets/Waste_Management_Design_Guidelines48945.pdf

Building A, Ground Floor - Retail A
2072 Lakeshore Rd - Waste Capacity Calculationaste Capacity Calculation

Stats	Value	Unit	Comments
Number of Bins Required - Commercial			
Retail (non-food) Garbage	0.5	L/m²/day	Ref #1, 50L/100 m2 floor area/day
Retail (non-food) Recycling	0.5	L/m²/day	Ref #1, 50L/100 m2 floor area/day
Commercial Floor Space	582.43	m²	Total space
Commercial Garbage Waste Generation Rate	291	L/day	Using retail generation numbers
Commercial Recycling Waste Generation Rate	291	L/day	Using retail generation numbers
Days between collection	7	day(s)	Assuming weekly collection
Estimated Commercial Garbage Waste Generated	2,038.5	L/Week	Retail
Estimated Commercial Recycling Waste Generated	2,038.5	L/Week	Retail
Estimated Commercial Garbage Waste Generated	538	gallon	Converted units, retail, Conversion factor: 3.79L/gallon
Estimated Commercial Recycling Waste Generated	538	gallon	Converted units, retail, Conversion factor: 3.79L/gallon
Estimated Commercial Garbage Waste Generated	2.7	cu. yd.	Converted units, retail, Conversion factor: 765L/cubic yard
Estimated Commercial Recycling Waste Generated	2.7	cu. yd.	Converted units, retail, Conversion factor: 765L/cubic yard
Number of Bins Required - Commercial			Private Collection
Garbage	1	3 cu. yd. bin(s)	
Recycling	1	3 cu. yd. bin(s)	
			- or -
Garbage	6	95 gallon	
Recycling	6	95 gallon	
Bin/Cart Footprint			
1 Cubic Yard Bin	2.0	m²	Ref #3, 2.09 m (W) X 0.97 m (D), may slightly differ from various manufactures
2 Cubic Yard Bin	2.1	m²	Ref #2, 2.03 m (W) X 1.02 m (D), may slightly differ from various manufactures
3 Cubic Yard Bin	2.3	m²	Ref #2, 2.03 m (W) X 1.12 m (D), may slightly differ from various manufactures
35 Gallon	0.3	m²	Ref #4, 120L, .513 m (W) X .584 m (D)
95 Gallon	0.6	m²	Ref #4, 360L, .729 m (W) X .857 m (D)
Footprint Required - Option 1			Option dependant on private contractor
3 Cu yd. Garbage	2.3	m²	
3 Cu yd. Recycling	2.3	m²	
Manoeuvre Factor	2.25		Ref #5, this is a consideration to factor in. Allows for manoeuvring and access path ways.
Total Footprint Required in Waste Storage Room	4.5	m²	(Estimate)
Footprint Required - Option 2			Option dependant on private contractor
95 g. Garbage	3.7	m²	
95 g. Recycling	3.7	m²	
Total Footprint Required in Waste Storage Room	7.5	m²	(Estimate)

References

1. City of Melbourne. (2017). Guidelines for Preparing a Waste Management Plan.
2. Halton Region. (2014). Development Design Guidelines for Source Seperation of Solid Waste. Halton Region. Retrieved from https://www.halton.ca/Repository/Development-Design-Guidelines-for-Source-Separatio
3. Toter 1 Cubic Yard Front Loading Dumpster W/ Bumpers, Dark Cool Gray - FR010-00125. (n.d.). Retrieved from https://www.globalindustrial.ca/p/outdoor-grounds-maintenance/garbage-recycling/dumpster/1-yard-front-loading-dumpster-w-bumpers-dark-cool-gray-fr010-00125?infoParam.campaignId=T9F&gclid=CjwKCAiAtK79BRAIEiwA4OskBt3Nx1dm96L2pAH4fgwSIlHE_IpeR3FDqoTCXmxgmnM_uzEvqBvmdhoCOwoQAvD_BwE
4. City of Toronto. (2020, October 28). Garbage Bin Sizes & Fees. Retrieved from https://www.toronto.ca/services-payments/recycling-organics-garbage/houses/garbage-bin-sizes-fees/
5. City of Richmond. (2018). Commercial and Multi-Family Developments Waste Management Design Guidelines. Retrieved from: https://www.richmond.ca/__shared/assets/Waste_Management_Design_Guidelines48945.pdf