

157 & 165 Cross Avenue, Oakville ON OPA/ZBA Application Solid Waste Management Plan

Cross Realty LP. 90 Wingold Avenue, Unit 1 Toronto, ON M6B 1P5



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February 2024 300057336.0000



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R.J. Burnside & Associates Limited

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157 & 165 Cross Avenue, Oakville ON Solid Waste Management Plan February 2024

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1.0 Introduction

This document describes the preliminary Solid Waste Management Plan (Plan) developed for the proposed 157 & 165 Cross Avenue mixed-use development located in the Town of Oakville, Ontario. This Plan is intended for municipal review during the Zoning By-Law Amendment (ZBA) process. The development's Site Plan may change during the ZBA process and prior to Site Plan Approval (SPA) / construction, though it is currently expected that the methods of handling solid waste as expressed in this report will not require revision. This report will be developed further during SPA, featuring further specifics and operational detail.

This report is based on the 'Issued for OPA/ZBA' drawing package, dated February 16, 2024. Table 1 are a list of drawings from this package, contained in Appendix A, describe the development's solid waste management features for both residential and commercial waste:

| Drawing No. | Drawing Title |
|-------------|---------------------------------|
| A001 | Sheet List, Zoning Requirements |
| A112 | Loading Plan |
| A113 | Waste Management Plan |
| A207 | Level P1 Plan |
| A211 | Level 1 Plan |
| A401 | North & South Elevations |
| A402 | East & West Elevations |

Table 1: Appendix A Drawing List

The 157 & 165 Cross Avenue development will provide:

- 1,198 residential units.
 - Tower A will be 61-storeys and will contain 694 residential units.
 - Tower B will be 45-storeys and will contain 504 residential units.
- 2,739 m² Gross Floor Area (GFA) of leasable retail space
 - The first two levels of Tower A provide 1,710 m².
 - The first two levels of Tower B provide 983 m².
- 1,127 m² GFA of office space between the first two levels of Tower A.
- Seven (7) levels of underground parking (i.e., Levels P1 to P7).
 - Both Towers are connected at these parking levels.
- Each Tower has their own residential waste storage room located at Level P1.
- Retail and office waste storage rooms located on the ground floor.
 - These rooms are not delineated on the plans but will be within the 'commercial' and 'office' footprints.

1

• Both Towers share a Collection Point (including loading and staging area) on the ground level.

As noted in the Pre-Consultation Comments Report by Halton Region staff, the development will not be eligible to receive commercial waste collection services. Therefore, private collection must be arranged. The management of commercial wastes is discussed in Section 3.0.

1.1 Design Resources

In preparing this report, R.J. Burnside & Associates Limited (Burnside) has considered the following sources:

- Halton Region 'Development Design Guidelines for Source Separation of Solid Waste, Regional Official Plan Guidelines', Version 1.0 dated June 2014;
- Pre-Consultation Comments Report from the Town of Oakville dated June 28, 2023;
- Waste Management Meeting with Halton Region's Waste Management Team dated September 18, 2023, and other direct communications with Halton staff;
- Halton Region By-law No. 123-12 and No. 88-15;
- Waste Diversion Ontario Continuous Improvement Fund (CIF) Report 219: Best Practices for the Storage and Collection of Recyclables in Multi-Residential Buildings, dated February 2011;
- Waste Diversion Ontario Continuous Improvement Fund (CIF) Report 723: Multi-Residential Project Debriefing Series, dated March 14, 2014;
- Resource Recovery and Circular Economy Act, 2016; and
- Ontario Food and Organic Waste Framework, dated April 2018.

1.1.1 Halton Region Guidelines

Halton Region's (Region) 'Development Design Guidelines for Source Separation of Solid Waste' document (hereinafter referred to as the 'Guidelines') outline the requirements to obtain approval for municipal waste collection services. Following the Guidelines provides some flexibility to address future solid waste management needs and programs. In addition, the Region's municipal waste collection services are preferred over private services when considering long term operating costs for the development.

Based on the Guidelines, the residential portion of this development is expected to be compatible with Regional provided recycling, organics, and refuse collection. This waste management plan for the development is sufficiently flexible to allow future revision of Regional waste collection processes, including privatization and changes anticipated by the Resource Recovery and Circular Economy Act (RRCEA).

1.1.2 Other Considerations

In addition to the City Requirements, Burnside considered Continuous Improvement Fund (CIF) Report 219 and Report 723 related to multiunit residential buildings for their waste management effectiveness. Both reports made recommendations for the design and operation of waste management systems for new multi-residential buildings. The findings of the CIF reports are consistent with City Requirements. Burnside has also studied the Ontario Food and Organic Waste Framework which outlines the objective of increasing resource recovery (from food and organic waste in particular) from multiunit residential buildings.

2.0 Waste Management System Requirements

2.1 Residential Waste Storage Rooms

Towers A and B provide residents with equivalent waste disposal service. Each Tower has its own Residential Waste Storage Room located on Level P1. In accordance with Section's 1.9.2 and 1.9.3 of the Guidelines, the Residential Waste Storage Rooms for this development will feature the following:

- A chute system consisting of three separate chutes for recyclables, organics, and garbage will be used to deliver these wastes to the Residential Waste Storage Rooms.
 - The chute system will be accessible to all residential units via internal corridors.
 - Controls at chute access points include an interlock to prevent simultaneous access and access during maintenance.
- Each Residential Waste Storage Room will have a compactor to minimize the number of bins required for garbage storage.
- Separate rooms adjacent to each Residential Waste Storage Room will be designated for the storage of bulk waste (i.e., the Bulky Waste Storage Area). These rooms will be a minimum of 10 m² in size.
- All waste storage rooms (both for residential waste and commercial waste see Section 3.0) will be locked and inaccessible to residents.
- All waste storage rooms, including bulky waste storage rooms, will be rodent proof, properly ventilated, and include a hose bib and floor drain for periodically washing the room, equipment, and waste containers (carts and bins). Should it be necessary, odour and insect issues can be addressed by:
 - Increasing the cleaning efforts for the room and its equipment;
 - Adding odour neutralizer sprays in the waste room(s);
 - Increasing the ventilation (air changes per hour);
 - Installing an in-room air cleaner; and / or
 - Reducing the storage room temperature (air conditioning).
- The width of the doors for all waste storage rooms will be enough to accommodate the size of all required waste containers, a minimum of 2.2 metres in width.

2.2 Residential Waste Equipment Requirements

Three chutes will lead recyclables, organic waste, and garbage into each tower's Residential Waste Storage Room. The following equipment will be located under each chute:

- Recyclables chute: 4 yd³ front-load bins for storing recyclables.
- Organics chute: 360 L semi-automated carts for storing organics waste.
- Garbage chute: A compactor that loads 3 yd³ front-load bins for storing garbage.

Based upon a once-per-week collection schedule for each stream, Burnside has determined waste storage container needs (bin counts) from the Guidelines and details provided via direct communications¹ with the Region's Multi-Residential Waste Diversion Coordinator.

- 1. Recycling (loose):
 - 56 residential units can be serviced by one 4 yd³ front-lift bin.
- 2. Organics:
 - One 360 L (0.34 yd³) organics bin is required for every 25 residential units.
- 3. Garbage (compacted):
 - 54 residential units per 3 yd³ front-lift bin.

Table 2 outlines the equipment requirements for each Residential Waste Storage Room. Maintenance staff will check the containers frequently to ensure those reaching capacity are exchanged for empty ones. They will also control access to the Residential Waste Storage Room as there are safety concerns associated with the chutes and the garbage compactor.

| | | Quantity | | |
|---|--|---------------------------|------------------------|--|
| ltem | Stream/Use | Tower A (694 Units) | Tower B (504 Units) | |
| 4 yd ³ front-lift bin | Recycling | 14 | 10 | |
| 360 L semi- automated carts | Organics | 29 | 22 | |
| 3 yd ³ front-lift bin (compaction type) | Garbage (compacted) | 14 | 11 | |
| Waste Compactor | Compacts garbage into the 3 yd³ front-lift bins | 1 | 1 | |
| Bin Tractor | To move bins & (loaded) cart trailer | 1 | N/A | |
| Cart Trailer | To move carts | 1 | N/A | |

Table 2: Residential Waste Storage Room Equipment

Note:

1. Container counts (carts and bins) assume twice per week collection.

2. Container counts include one extra for continuous service during collection.

¹ Garbage and recycling bin ratios were provided to Burnside via March 22, 2022 email from Halton Region's Multi-Residential Waste Diversion Coordinator, Andrew Suprun. These values update Halton's Guidelines.

The current design for each Residential Waste Storage Room not only meets these spatial requirements for all equipment, but also includes additional space to provide flexibility to accommodate future waste management needs and facilitate more efficient bin movements.

2.3 Collection Point and Waste Collection

Recyclables, organics, and garbage from both Towers will be collected in one Collection Point, located on the ground floor.

The Collection Point will feature:

- a loading area 6 m in width by 13 m in length with an overhead clearance of 7.5 m;
- a +/- 2% grade; and
- a weight capacity of 35,000 kg (35 tonnes)².

The staging area is 131.7 m², which is sufficient to store and maneuver the recycling bins from both Towers during a single collection day. This is considered this a 'worst-case' collection day, given the anticipated once weekly collection schedule. The layout of recycling and garbage bins awaiting collection in the staging area is illustrated on the 'Level 1 Plan' (Drawing No. A211) in Appendix A.

On each collection day, prior to 7:00 AM., maintenance staff will move the bins from each Residential Waste Storage Room to the Collection Point.

- Bins from Tower A's Residential Waste Storage Room will reach the Collection Point by moving up a ramp (labeled "Driveway" in Drawing No. A211). Maintenance staff may use a ride-on tractor³ for ease of transporting bins.
- Bins / carts from Tower B's Residential Waste Storage Room will be moved directly to the staging area via the service elevator connecting it to the staging area.

During collection, maintenance staff will assist in moving and positioning the bins in front of the collection vehicle. This will allow its driver to remain within the vehicle during collection, and not require multiple rows of bins in the staging area, positioned for collection (per Appendix 4 of the Guidelines, a minimum of 6 metres width). Staff will then shuffle bins in the staging area as the tipping proceeds. All waste containers will be returned to their respective Residential Waste Storage Rooms following collection.

The collection truck drive path is attached as Appendix B, showing the minimum 13 metre centreline turning radii.

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² Confirmation to be provided by others.

³ A Kubota sub-compact tractor (<u>https://www.kubota.ca/products/BX2380</u> accessed February 2024) is provided as an example.

3.0 Retail & Office Waste Management

The Region has stated they will not provide waste collection for commercial wastes generated by this development. As such, private collection will be arranged for retail and office wastes produced at the property. Retail and office wastes will be stored separately from residential wastes in dedicated waste rooms, proposed to be a part of each tower located at the ground floor. These commercial waste rooms are not shown on the current plans.

3.1 Storage Room & Equipment

It is expected that commercial wastes will be temporarily stored within each commercial unit in a small closet using 360 L carts (or smaller) for each waste stream (i.e., garbage, recyclables, and organic waste), before they are transported to the Commercial Waste Room in their respective tower. This movement will be completed by the commercial tenants either daily or once the cart(s) are filled.

Frequent collection may be required for odorous wastes generated by potential tenants. Dedicated containers for these wastes would be labelled for identification by daycare operators and maintenance staff.

The commercial waste rooms will be of a sufficient size to allow for the storage and maneuvering of multiple 360 L carts or front-lift bins for each waste stream, dependent on the operational requirements.

3.1.1 Using Front-lift Bins

Should front-lift bins be used for storage, a cart tipper⁴ will be required in the commercial waste room to empty carts into front-lift bins.

The use of the room in this manner can be operated by either:

a) Commercial Tenants:

Tenants will bring their waste carts to the waste storage room and use the cart tipper to empty the cart into the appropriate front-lift bin. The tenant will then return their emptied cart to their (commercial unit) storage closet.

This option has the benefit of requiring the fewest carts. However, training must be provided to the tenant's staff for the safe use of the cart tipper.

⁴ A cart tipper such as one from Vestil Manufacturing Corp. or similar may be used (e.g., <u>https://www.vestil.com/product.php?FID=227</u>, accessed February 2024).

b) Facility Maintenance:

Tenants will bring their filled waste carts to the waste storage room. There will be spare, empty carts in the room. The tenant will grab one of the spare carts and return to their (commercial) unit, leaving their filled cart(s) in the waste storage room.

Facility maintenance staff will empty the filled carts using the cart tipper. The emptied carts will then be positioned for reuse by the tenants.

A minimum of two days of carts are recommended with this method. Tenant staff will not require training to operate the cart tipper.

3.1.2 Using Carts Only

If using only carts (no front-lift bins), then the tenants will:

- Deliver their filled carts to the room, and
- Grab an empty cart before returning to their (commercial) unit.

This option is likely to require the highest number of carts compared to other options. Increasing collection frequency (i.e., recycling collection two times per week) would reduce the cart count. Some manual movement of waste to completely load partly filled carts may also reduce the number of carts required.

3.2 Collection Point and Waste Collection

Collection of commercial waste will take place at the same Collection Point that is used for residential waste. Facility maintenance staff will be responsible for moving the frontlift bins or carts into the staging area.

Private collection of commercial waste will be scheduled so that it does not conflict with the Region's (residential) waste collection schedule.

4.0 Conclusions

From the research completed in preparing this report, Burnside believes that the 157 & 165 Cross Avenue mixed-use development's waste management system will operate in a safe, functional, and accessible manner, compatible with the Region's residential waste collection system. Furthermore, the development's design provides flexibility to address future solid waste management systems.

Burnside will work with the architectural team to ensure the site's design considers the Region's waste management Guidelines and addresses any municipal comments when preparing the SPA submission.



Appendix A

Site Plan and Statistics



157-165 CROSS AVENUE

ISSUED FOR OPA / ZBA



Teeple Architects

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COVER SHEET

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2024-02-1 PLOT DATE

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A000

16 FEBRUARY 2024

| SH | EET LIST |
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| A000 - F | PROJECT INFORMATION |
| A001 | SHEET LIST, ZONING REQUIREMENTS |
| A101 | SITE SURVEY |
| A111 | SITE PLAN @ ROOF LEVEL |
| A112 | LOADING PLAN |
| A113 | WASTE MANAGEMENT PLAN |
| A200 - F | FLOOR PLANS |
| A201 | LEVEL P7 PLAN |
| A202 | LEVEL P6 PLAN |
| A203 | LEVEL P5 PLAN |
| A204 | LEVEL P4 PLAN |
| A205 | LEVEL P3 PLAN |
| A206 | LEVEL P2 PLAN |
| A207 | LEVEL P1 PLAN |
| A211 | LEVEL 1 PLAN |
| A212 | LEVEL MEZZ PLAN |
| A214 | LEVEL 3 PLAN |
| A215 | LEVEL 4 PLAN |
| A216 | LEVEL 5 PLAN |
| A217 | L06, L07 & L58, L59 (A) & L42, L43 (B) |
| A218 | L08, L09 & L56, L57 (A) & L40, L41 (B) |
| A220 | L10, L11 & L54, L55 (A) & L38, L39 (B) |
| A221 | L12, L13 & L52, L53 (TOWER A) |
| A222 | LEVEL 14 (TYP TOWER) |
| A223 | L44, L45 (TOWER B) |
| A224 | L60, L61 (TOWER A) |
| A225 | LEVEL MPH |
| A226 | LEVEL MPH ROOF |
| A227 | ROOF PLAN |
| A400 - E | ELEVATIONS |
| A401 | NORTH & SOUTH ELEVATIONS |
| A402 | EAST & WEST ELEVATIONS |
| A500 - S | SECTIONS |
| A501 | BUILDING SECTIONS |
| - | |
| A700 - F | RENDERINGS |
| A701 | PERSPECTIVES |
| A702 | PERSPECTIVES |

BUILDING STATISTICS - OVERALL

| GCA BY LEVEL (BELOW GRADE) | | | | | | |
|----------------------------|--------------------------|------------|-------------|--------------------------|--|--|
| | AREA PE | R LEVEL | NO. OF TYP | TOTAL | | |
| LEVELS | (SM) | (SF) | (SF) LEVELS | | | |
| LEVEL P7 | 5,688.49 m ² | 61,230 SF | 1 | 5,688.49 m² | | |
| LEVEL P6 | 5,688.49 m ² | 61,230 SF | 1 | 5,688.49 m ² | | |
| LEVEL P5 | 5,688.49 m ² | 61,230 SF | 1 | 5,688.49 m² | | |
| LEVEL P4 | 5,688.49 m ² | 61,230 SF | 1 | 5,688.49 m² | | |
| LEVEL P3 | 5,688.49 m ² | 61,230 SF | 1 | 5,688.49 m² | | |
| LEVEL P2 | 5,688.49 m ² | 61,230 SF | 1 | 5,688.49 m² | | |
| LEVEL P1 | 5,688.49 m ² | 61,230 SF | 1 | 5,688.49 m² | | |
| | | | | · · · · · · | | |
| TOTAL | 39,819.44 m ² | 428,613 SF | 1 | 39,819.44 m ² | | |

| GCA BY LEVEL (ABOVE GRADE) | | | | | | | |
|----------------------------|--------------------------|------------|------------|---------------------------|--------------|--|--|
| | AREA PER LEVEL | | NO. OF TYP | TOTAL AREA | | | |
| LEVELS | (SM) | (SF) | LEVELS | (SM) | (SF) | | |
| LEVEL 01 | 3,814.28 m ² | 41,057 SF | 1 | 3,814.28 m ² | 41,057 SF | | |
| LEVEL MEZZANINE | 4,352.13 m ² | 46,846 SF | 1 | 4,352.13 m ² | 46,846 SF | | |
| LEVEL 02 | 3,882.64 m ² | 41,792 SF | 1 | 3,882.64 m ² | 41,792 SF | | |
| LEVEL 03 | 3,046.43 m ² | 32,792 SF | 1 | 3,046.43 m ² | 32,792 SF | | |
| LEVEL 04 | 1,934.93 m ² | 20,827 SF | 1 | 1,934.93 m ² | 20,827 SF | | |
| LEVEL 05 | 1,802.04 m ² | 19,397 SF | 1 | 1,802.04 m ² | 19,397 SF | | |
| ТҮР | 1,675.58 m ² | 18,036 SF | 4 | 6,702.34 m ² | 72,143 SF | | |
| ТҮР | 1,685.90 m ² | 18,147 SF | 4 | 6,743.60 m ² | 72,588 SF | | |
| ТҮР | 1,694.57 m ² | 18,240 SF | 4 | 6,778.27 m ² | 72,961 SF | | |
| TYP L12; L13 & L52; L53 | 849.13 m ² | 9,140 SF | 4 | 3,396.50 m ² | 36,560 SF | | |
| ТҮР | 1,700.44 m ² | 18,303 SF | 61 / 45 | 54,413.95 m ² | 585,707 SF | | |
| TYP L44; L45 | 835.13 m ² | 8,989 SF | 2 | 1,670.25 m² | 17,978 SF | | |
| LEVEL MPH | 835.13 m ² | 8,989 SF | 1 | 835.13 m ² | 8,989 SF | | |
| UPPER ROOF | 173.20 m ² | 1,864 SF | 1 | 173.20 m² | 1,864 SF | | |
| TYP L60; L61 | 830.44 m ² | 8,939 SF | 2 | 1,660.88 m ² | 17,878 SF | | |
| LEVEL MPH | 830.44 m ² | 8,939 SF | 1 | 830.44 m ² | 8,939 SF | | |
| UPPER ROOF | 165.97 m ² | 1,786 SF | 1 | 165.97 m ² | 1,786 SF | | |
| | | | | | | | |
| TOTAL | 30,108.37 m ² | 324,084 SF | | 102,202.99 m ² | 1,100,104 SF | | |

BUILDING STATISTICS - TOWER A

| | AREA PEI | RLEVEL | NO. OF TYP | TOTAL |
|-------------------------|-------------------------|-----------|------------|--------------------------|
| LEVELS | (SM) | (SF) | LEVELS | (SM) |
| LEVEL 01 | 2,229.53 m ² | 23,998 SF | 1 | 2,229.53 m ² |
| LEVEL MEZZANINE | 1,866.97 m ² | 20,096 SF | 1 | 1,866.97 m ² |
| LEVEL 02 | 1,949.72 m ² | 20,987 SF | 1 | 1,949.72 m² |
| LEVEL 03 | 1,443.06 m ² | 15,533 SF | 1 | 1,443.06 m² |
| LEVEL 04 | 971.03 m ² | 10,452 SF | 1 | 971.03 m² |
| LEVEL 05 | 900.66 m ² | 9,695 SF | 1 | 900.66 m² |
| TYP L06; L07 & L58; L59 | 835.13 m ² | 8,989 SF | 4 | 3,340.50 m ² |
| TYP L08; L09 & L56; L57 | 840.46 m ² | 9,047 SF | 4 | 3,361.84 m² |
| TYP L10; L11 & L54; L55 | 845.44 m ² | 9,100 SF | 4 | 3,381.76 m ² |
| TYP L12; L13 & L52; L53 | 849.13 m ² | 9,140 SF | 4 | 3,396.50 m ² |
| TYP TOWER L14 TO L51 | 850.22 m ² | 9,152 SF | 38 | 32,308.28 m ² |
| TYP L60; L61 | 830.44 m ² | 8,939 SF | 2 | 1,660.88 m² |
| LEVEL MPH | 830.44 m ² | 8,939 SF | 1 | 830.44 m² |
| UPPER ROOF | 165.97 m ² | 1,786 SF | 1 | 165.97 m² |

TOTAL 15,408.18 m² 165,852 SF

BUILDING STATISTICS - TOWER B

| GCA BY LEVEL (ABOVE GRADE) TOWER B | | | | | | |
|------------------------------------|--------------------------|----------------|--------|--------------------------|--|--|
| | AREA PER | AREA PER LEVEL | | TOTAL | | |
| LEVELS | (SM) | (SF) | LEVELS | (SM) | | |
| LEVEL 01 | 1,584.76 m ² | 17,058 SF | 1 | 1,584.76 m ² | | |
| LEVEL MEZZANINE | 455.13 m ² | 4,899 SF | 1 | 455.13 m ² | | |
| LEVEL 02 | 1,295.28 m ² | 13,942 SF | 1 | 1,295.28 m ² | | |
| LEVEL 03 | 1,603.37 m ² | 17,259 SF | 1 | 1,603.37 m ² | | |
| LEVEL 04 | 963.90 m ² | 10,375 SF | 1 | 963.90 m ² | | |
| LEVEL 05 | 901.38 m ² | 9,702 SF | 1 | 901.38 m ² | | |
| TYP L06; L07 & L42; L43 | 840.46 m ² | 9,047 SF | 4 | 3,361.84 m ² | | |
| TYP L08; L09 & L40; L41 | 845.44 m ² | 9,100 SF | 4 | 3,381.76 m ² | | |
| TYP L10; L11 & L38; 39 | 849.13 m ² | 9,140 SF | 4 | 3,396.50 m ² | | |
| TYP TOWER L12 TO L37 | 850.22 m ² | 9,152 SF | 26 | 22,105.67 m ² | | |
| TYP L44; L45 | 835.13 m ² | 8,989 SF | 2 | 1,670.25 m ² | | |
| LEVEL MPH | 835.13 m ² | 8,989 SF | 1 | 835.13 m ² | | |
| UPPER ROOF | 173.20 m ² | 1,864 SF | 1 | 173.20 m ² | | |
| | | | | ' | | |
| TOTAL | 12 022 51 m ² | 120 517 SE | | 41 720 17 m ² | | |



12,032.51 m² 129,517 SF

41,728.17 m² 449,158 SF



| AREA |
|------------|
| (SF) |
| 61,230 SF |
| |
| 428,613 SF |

| L | AREA | |
|---|------------|--|
| | (SF) | |
| 2 | 41,057 SF | |
| 2 | 46,846 SF | |
| 2 | 41,792 SF | |
| 2 | 32,792 SF | |
| 2 | 20,827 SF | |
| 2 | 19,397 SF | |
| 2 | 72,143 SF | |
| 2 | 72,588 SF | |
| 2 | 72,961 SF | |
| 2 | 36,560 SF | |
| 2 | 585,707 SF | |
| 2 | 17,978 SF | |
| 2 | 8,989 SF | |
| 2 | 1,864 SF | |
| 2 | 17,878 SF | |
| 2 | 8,939 SF | |

| | 2B | 616 SF | 895 SF | 346 | 29% |
|------------|---------------|----------|-------------|--------|-----------|
| | 3B | 761 SF | 999 SF | 100 | 8% |
| | TOTAL | | | 1198 | 100% |
| | | | | | |
| | | | | | |
| | AF | REA BY T | YPE | | |
| | | | тот | AL ARE | 4 |
| | AREA TYPE | | (SM) | | (SF) |
| EXTERIOR | | | 1,326.40 r | n² 1 | 4,277 SF |
| INDOOR AM | IENITY | | 3,648.26 r | n² 3 | 9,270 SF |
| OFFICE COI | MMON AREA - C | OFFICE | 99.50 r | n² | 1,071 SF |
| OFFICE LEA | SEABLE | | 1,027.15 r | n² 1 | 1,056 SF |
| OTHER | | | 6,272.29 r | n² 6 | 67,514 SF |
| OUTDOOR / | AMENITY | | 1,480.77 r | n² 1 | 5,939 SF |
| RES. COMM | ION AREA | | 7,155.41 r | n² 7 | 7,020 SF |
| RES. SERVI | CE | | 2,841.02 r | n² 3 | 80,580 SF |
| RETAIL CON | MMON AREA | | 46.44 r | n² | 500 SF |
| RETAIL LEA | SABLE | | 2,692.80 r | n² 2 | 28,985 SF |
| SALEABLE | | | 67,572.32 r | n² 72 | 27,342 SF |

UNIT SUMMARY 1

UNIT SUMMARY 2

SIZE RANGE

UNIT TYPE MINIMUM MAXIMUM COUNT %

UNIT SUMMARY 1 TOWER A

595 SF

616 SF 776 SF 168

COUNT

464

62

694

174

290

168

694

67%

24%

9%

39%

23%

8%

MINIMUM MAXIMUM

(SF) (SF)

804 SF 999 SF

UNIT SUMMARY 2 TOWER A

595 SF

776 SF

999 SF

SIZE RANGE UNIT TYPE MINIMUM MAXIMUM COUNT %

552 SF

616 SF

804 SF

508 SF

 508 SF
 556 SF
 299

 552 SF
 595 SF
 453

508 SF 595 SF 752

616 SF 895 SF 346 29%

761 SF 999 SF 100 8%

1198

63%

25%

38%

SIZE RANGE

CATEGORY MINIMUM MAXIMUM

UNIT

2B

3B

1B+D

UNIT

CATEGORY

1B

2B 3B

1B+D

TOTAL

| | UNIT | | MAXIMUM | COUNT |
|----------|----------|--------------|---------|-------|
| LEVEL | CATEGORY | MINIMUM (SF) | (SF) | |
| LEVEL 04 | 1B | 523 SF | 587 SF | 7 |
| LEVEL 04 | 2B | 620 SF | 895 SF | 11 |
| LEVEL 04 | 3B | 814 SF | 999 SF | 6 |
| | | | | 24 |
| LEVEL 05 | 1B | 523 SF | 587 SF | 11 |
| LEVEL 05 | 2B | 631 SF | 784 SF | 11 |
| LEVEL 05 | 3B | 804 SF | 805 SF | 2 |
| | | | | 24 |
| LEVEL 06 | 1B | 508 SF | 595 SF | 64 |
| LEVEL 06 | 2B | 659 SF | 707 SF | 28 |
| LEVEL 06 | 3B | 812 SF | 812 SF | 4 |
| | | | | 96 |
| LEVEL 08 | 1B | 521 SF | 595 SF | 64 |
| LEVEL 08 | 2B | 659 SF | 667 SF | 24 |
| LEVEL 08 | 3B | 761 SF | 812 SF | 8 |
| | | | | 96 |
| LEVEL 10 | 1B | 523 SF | 595 SF | 60 |
| LEVEL 10 | 2B | 616 SF | 667 SF | 28 |
| LEVEL 10 | 3B | 800 SF | 812 SF | 8 |
| | | | | 96 |
| LEVEL 12 | 1B | 523 SF | 595 SF | 32 |
| LEVEL 12 | 2B | 656 SF | 663 SF | 12 |
| LEVEL 12 | 3B | 812 SF | 812 SF | 4 |
| | | | | 48 |
| LEVEL 14 | 1B | 523 SF | 595 SF | 486 |
| LEVEL 14 | 2B | 662 SF | 667 SF | 218 |
| LEVEL 14 | 3B | 812 SF | 812 SF | 64 |
| | | | | 768 |
| LEVEL 44 | 1B | 523 SF | 587 SF | 14 |
| LEVEL 44 | 2B | 655 SF | 667 SF | 10 |
| | | | | 24 |
| LEVEL 60 | 1B | 523 SF | 592 SF | 14 |
| LEVEL 60 | 2B | 663 SF | 663 SF | 4 |
| LEVEL 60 | 3B | 815 SF | 983 SF | 4 |
| | | | | 22 |
| ΤΟΤΑΙ | | | | 1198 |

| AREA |
|------------|
| (SF) |
| 23,998 SF |
| 20,096 SF |
| 20,987 SF |
| 15,533 SF |
| 10,452 SF |
| 9,695 SF |
| 35,957 SF |
| 36,186 SF |
| 36,401 SF |
| 36,560 SF |
| 347,763 SF |
| 17,878 SF |
| 8,939 SF |
| 1,786 SF |

57,807.15 m² 622,231 SF

| REA | |
|------------|--|
| (SF) | |
| 17,058 SF | |
| 4,899 SF | |
| 13,942 SF | |
| 17,259 SF | |
| 10,375 SF | |
| 9,702 SF | |
| 36,186 SF | |
| 36,401 SF | |
| 36,560 SF | |
| 237,943 SF | |
| 17,978 SF | |
| 8,989 SF | |
| 1,864 SF | |
| | |

| UNIT SUMMARY 1 TOWER B | | | | |
|------------------------|-----------------|-----------------|-------|-----|
| UNIT CATEGORY | MINIMUM (SF) | MAXIMUM (SF) | COUNT | % |
| 1B | 523 SF | 587 SF | 288 | 57% |
| 2B | 620 SF | 895 SF | 178 | 35% |
| 3B | 761 SF | 892 SF | 38 | 8% |
| TOTAL | | | 504 | |

| UNIT SUMMARY 2 TOWER B | | | | | |
|------------------------|---------|---------|-------|-----|--|
| | SIZE R | ANGE | | | |
| UNIT TYPE | MINIMUM | MAXIMUM | COUNT | % | |
| 1B | 523 SF | 556 SF | 125 | 23% | |
| 1B+D | 552 SF | 587 SF | 163 | 30% | |
| 2B | 620 SF | 895 SF | 178 | 33% | |
| 3B | 761 SF | 892 SF | 38 | 7% | |
| TOTAL | | | 504 | 92% | |

| I EVEI | | MINIMUM (SF) | MAXIMUM (SF) | COUNT |
|----------|----|--------------|-----------------|-------|
| | 18 | 523 SE | 570 SE | 1 |
| | 2B | 631 SE | 670 SF | 5 |
| | 3B | 824 SF | 999 SF | 3 |
| | 08 | 02101 | 000 01 | 12 |
| LEVEL 05 | 1B | 523 SE | 587 SE | 6 |
| | 2B | 639 SF | 776 SF | 5 |
| | 3B | 804 SF | 804 SF | 1 |
| | | | | 12 |
| LEVEL 06 | 1B | 508 SE | 595 SF | 36 |
| LEVEL 06 | 2B | 663 SF | 663 SF | 8 |
| | 3B | 812 SF | 812 SF | 4 |
| | | 0.2 0. | 0.2 0. | 48 |
| LEVEL 08 | 1B | 521 SF | 595 SF | 36 |
| LEVEL 08 | 2B | 663 SF | 663 SF | 8 |
| LEVEL 08 | 3B | 812 SF | 812 SF | 4 |
| | - | | - | 48 |
| LEVEL 10 | 1B | 523 SF | 595 SF | 32 |
| LEVEL 10 | 2B | 616 SF | 663 SF | 12 |
| LEVEL 10 | 3B | 812 SF | 812 SF | 4 |
| | | | | 48 |
| LEVEL 12 | 1B | 523 SF | 595 SF | 32 |
| LEVEL 12 | 2B | 656 SF | 663 SF | 12 |
| LEVEL 12 | 3B | 812 SF | 812 SF | 4 |
| | | | | 48 |
| LEVEL 14 | 1B | 523 SF | 595 SF | 304 |
| LEVEL 14 | 2B | 663 SF | 667 SF | 114 |
| LEVEL 14 | 3B | 812 SF | 812 SF | 38 |
| | | | | 456 |
| LEVEL 60 | 1B | 523 SF | 592 SF | 14 |
| LEVEL 60 | 2B | 663 SF | 663 SF | 4 |
| LEVEL 60 | 3B | 815 SF | 983 SF | 4 |
| | | | | 22 |
| TOTAL | | | | 694 |

| | | | MAXIMIIM | |
|----------|----------|--------------|----------|------|
| LEVEL | CATEGORY | MINIMUM (SF) | (SF) | COUN |
| LEVEL 04 | 1B | 523 SF | 587 SF | 3 |
| LEVEL 04 | 2B | 620 SF | 895 SF | 6 |
| LEVEL 04 | 3B | 814 SF | 892 SF | 3 |
| | | | | 12 |
| LEVEL 05 | 1B | 523 SF | 587 SF | 5 |
| LEVEL 05 | 2B | 631 SF | 784 SF | 6 |
| LEVEL 05 | 3B | 805 SF | 805 SF | 1 |
| | | | | 12 |
| LEVEL 06 | 1B | 523 SF | 587 SF | 28 |
| LEVEL 06 | 2B | 659 SF | 707 SF | 20 |
| | | | | 48 |
| LEVEL 08 | 1B | 523 SF | 587 SF | 28 |
| LEVEL 08 | 2B | 659 SF | 667 SF | 16 |
| LEVEL 08 | 3B | 761 SF | 761 SF | 4 |
| | | | | 48 |
| LEVEL 10 | 1B | 523 SF | 587 SF | 28 |
| LEVEL 10 | 2B | 659 SF | 667 SF | 16 |
| LEVEL 10 | 3B | 800 SF | 800 SF | 4 |
| | | | | 48 |
| LEVEL 14 | 1B | 523 SF | 587 SF | 182 |
| LEVEL 14 | 2B | 662 SF | 667 SF | 104 |
| LEVEL 14 | 3B | 812 SF | 812 SF | 26 |
| | | | | 312 |
| LEVEL 44 | 1B | 523 SF | 587 SF | 14 |
| LEVEL 44 | 2B | 655 SF | 667 SF | 10 |
| | | | | 24 |
| TOTAL | | | | 504 |





_____ OV LEV LEVEL P LEVEL P1



| OVERALL VEHICLE PARKING SCHEDULE | | | |
|----------------------------------|--|-------|--|
| LEVEL | PARKING TYPE | COUNT | |
| LEVEL P1 | COMMERCIAL - ACCESSIBLE B (5700 x 2700) | 1 | |
| LEVEL P1 | COMMERCIAL - STANDARD (5700 x 2700) | 39 | |
| LEVEL P1 | VISITOR - STANDARD (5700 x 2700) | 39 | |
| LEVEL P1 | | 79 | |
| LEVEL P2 | VISITOR - ACCESSIBLE A (5700 x 3650) | 2 | |
| LEVEL P2 | VISITOR - ACCESSIBLE B (5700 x 2700) | 2 | |
| LEVEL P2 | VISITOR - STANDARD (5700 x 2700) | 124 | |
| LEVEL P2 | | 128 | |
| LEVEL P3 | RESIDENTIAL - ACCESSIBLE A (5700 x 3650) | 3 | |
| LEVEL P3 | RESIDENTIAL - ACCESSIBLE B (5700 x 2700) | 1 | |
| LEVEL P3 | RESIDENTIAL- STANDARD (5700 x 2700) | 108 | |
| LEVEL P3 | VISITOR - STANDARD (5700 x 2700) | 13 | |
| LEVEL P3 | | 125 | |
| LEVEL P4 | RESIDENTIAL - ACCESSIBLE A (5700 x 3650) | 3 | |
| LEVEL P4 | RESIDENTIAL - ACCESSIBLE B (5700 x 2700) | 1 | |
| LEVEL P4 | RESIDENTIAL- STANDARD (5700 x 2700) | 121 | |
| LEVEL P4 | | 125 | |
| LEVEL P5 | RESIDENTIAL - ACCESSIBLE A (5700 x 3650) | 3 | |
| LEVEL P5 | RESIDENTIAL- STANDARD (5700 x 2700) | 122 | |
| LEVEL P5 | | 125 | |
| LEVEL P6 | RESIDENTIAL - ACCESSIBLE A (5700 x 3650) | 3 | |
| LEVEL P6 | RESIDENTIAL - ACCESSIBLE B (5700 x 2700) | 1 | |
| LEVEL P6 | RESIDENTIAL- STANDARD (5700 x 2700) | 121 | |
| LEVEL P6 | | 125 | |
| LEVEL P7 | RESIDENTIAL - ACCESSIBLE A (5700 x 3650) | 3 | |
| LEVEL P7 | RESIDENTIAL - ACCESSIBLE B (5700 x 2700) | 1 | |
| LEVEL P7 | RESIDENTIAL- STANDARD (5700 x 2700) | 108 | |
| LEVEL P7 | | 112 | |
| TOTAL PARKING | | 819 | |

| RESIDENTIAL VEHICLE PARKING | | | | | |
|-----------------------------|--|-------|--|--|--|
| LEVEL | ТҮРЕ | TOTAL | | | |
| LEVEL P3 | RESIDENTIAL - ACCESSIBLE A (5700 x 3650) | 3 | | | |
| LEVEL P3 | RESIDENTIAL - ACCESSIBLE B (5700 x 2700) | 1 | | | |
| LEVEL P3 | RESIDENTIAL- STANDARD (5700 x 2700) | 108 | | | |
| LEVEL P3 | | 112 | | | |
| LEVEL P4 | RESIDENTIAL - ACCESSIBLE A (5700 x 3650) | 3 | | | |
| LEVEL P4 | RESIDENTIAL - ACCESSIBLE B (5700 x 2700) | 1 | | | |
| LEVEL P4 | RESIDENTIAL- STANDARD (5700 x 2700) | 121 | | | |
| LEVEL P4 | | 125 | | | |
| LEVEL P5 | RESIDENTIAL - ACCESSIBLE A (5700 x 3650) | 3 | | | |
| LEVEL P5 | RESIDENTIAL- STANDARD (5700 x 2700) | 122 | | | |
| LEVEL P5 | | 125 | | | |
| LEVEL P6 | RESIDENTIAL - ACCESSIBLE A (5700 x 3650) | 3 | | | |
| LEVEL P6 | RESIDENTIAL - ACCESSIBLE B (5700 x 2700) | 1 | | | |
| LEVEL P6 | RESIDENTIAL- STANDARD (5700 x 2700) | 121 | | | |
| LEVEL P6 | | 125 | | | |
| LEVEL P7 | RESIDENTIAL - ACCESSIBLE A (5700 x 3650) | 3 | | | |
| LEVEL P7 | RESIDENTIAL - ACCESSIBLE B (5700 x 2700) | 1 | | | |
| LEVEL P7 | RESIDENTIAL- STANDARD (5700 x 2700) | 108 | | | |
| LEVEL P7 | | 112 | | | |
| TOTAL PARKING | | 599 | | | |

| VISITOR VEHICLE PARKING | | | | |
|-------------------------|--------------------------------------|-------|--|--|
| EVEL | ТҮРЕ | TOTAL | | |
| P1 | VISITOR - STANDARD (5700 x 2700) | 39 | | |
| P1 | | 39 | | |
| P2 | VISITOR - ACCESSIBLE A (5700 x 3650) | 2 | | |
| P2 | VISITOR - ACCESSIBLE B (5700 x 2700) | 2 | | |
| P2 | VISITOR - STANDARD (5700 x 2700) | 124 | | |
| P2 | | 128 | | |
| 23 | VISITOR - STANDARD (5700 x 2700) | 13 | | |
| 23 | | 13 | | |
| PARKING | | 180 | | |

| COMMERCIAL OR NON-RES. PARKING | | | | |
|--------------------------------|---|-------|--|--|
| EVEL | ТҮРЕ | TOTAL | | |
| 21 | COMMERCIAL - ACCESSIBLE B (5700 x 2700) | 1 | | |
| 21 | COMMERCIAL - STANDARD (5700 x 2700) | 39 | | |
| P1 | | 40 | | |

40

| TOWN OF OAKVILLE ZONIN | IG BY-LAW 2014-014 | |
|-------------------------|---|--|
| SITE AREA | TOTAL = 9,630 m ² | |
| | AREA OF ROAD CONVEYANCES = 3,586.45 | m² |
| | PRIVATELY OWNED PUBLIC ACCESSIBLE SI | PACES = 1,0 |
| | | |
| SITE INFORMATION | SITE AREA PROVIDED BY: J. D. BARNES LT | D |
| PROGRAM | MULTI-TOWER RESIDENTIAL DEVELOPMEN WITH A TOTAL OF <u>1198</u> RESIDENTIAL U | T WITH 6-STY PODI NITS |
| | REQUIRED / PERMITTED | PROVIDED |
| MAXIMUM BUILDING HEIGHT | | TOWER A @ 61 5 |
| WASTE LOADING | 13.0 m (L) x 4.0 m (W) x 7.5 M (H) | 13.0 m (L) x 4.0 |
| GROSS CONSTRUCTION AREA | 102,202.99 m² | |
| GROSS FLOOR AREA | 97,858.28 m ² FLOOR AREA, GROSS (GFA) DEFINIT BUILDING MEASURED FROM THE EX | TION AS PER TOWN OF OAK TERIOR FACES F THE EXTE |
| FLOOR SPACE INDEX | 97,858.28 m² (TOTAL GFA) / 9,630 m² (L | OT AREA) = 10.1 |
| NUMBER OF UNITS | 1198 RESIDENTIAL UNITS | |

| AMENITY AREA PROVISIONS | | | | |
|-------------------------|-------------|---|-------------------|--------------------------------------|
| INDOOR AMENITY SPACE | 3,648.26 m² | / | <u>1198</u> UNITS | 3.04 m² PER UNIT |
| OUTDOOR AMENITY SPACE | 1,480.77 m² | 1 | <u>1198</u> UNITS | 5 1.30 m² PER UNIT |
| | | | | |

| PARKING PROVISIONS | | | | |
|--|---------------------------|--|-------|---|
| | RE | QUIRED / PERMITTED | | PROVIDED |
| VEHICULAR PARKING | RESIDENTIAL | <u>1198</u> x (0.50) = 599 | | 599 |
| | VISITOR | <u>1198</u> x (0.15) = 180 | | 180 |
| | RETAIL / COMMERCIAL | 2,692.80 m² (1.08/100 m ²) = | 29 | 40 |
| | OFFICE | 1,027.15 m² (1.08/100 m ²) = | 11 | |
| TOTAL REQUIRED | | | 819 | <u>819</u> |
| BICYCLE PARKING | RESIDENTIAL | <u>1198</u> x (1.00) = 1198 → | → 899 | 292 BICYCLE STACKER - SHORT-TERM |
| (NON-RESIDENTIAL PARKING | VISITOR (25% OF TOTAL) | <u>1198</u> x (0.25) = (300) | | 900 BICYCLE STACKER - LONG-TERM RESIDENTIAL (600x1800) |
| OF 2 OR 1.0 PER 1,000 m ²) | RETAIL / COMMERCIAL | 2,692.80 m² (1.00/1,000 m ²) = | 3 | 8 BICYCLE SINGLE - SHORT-TERM VISITOR (600x1800) |
| | OFFICE | 1,027.15 m² (1.00/1,000 m ²) = | 1 | COMMERCIAL (600x1800) |
| TOTAL REQUIRED | | | 1203 | <u>1204</u> |

| VEHICULA | VEHICULAR PARKING PROVISION BREAKDOWN BY FLOOR LEVEL | | | | |
|----------|--|---------|-----------------|------------|--|
| LEVEL | RESIDENTIAL | VISITOR | NON-RES. 1 & 2* | TOTAL | |
| | 599 | | | 819 | |
| P7 | 112 | | | 112 | |
| P6 | 125 | | | 125 | |
| P5 | 125 | | | 125 | |
| P4 | 125 | | | 125 | |
| P3 | 112 | 13 | | 125 | |
| P2 | | 128 | | 128 | |
| P1 | | 39 | 40 | 79 | |
| TOTAL | 599 | 180 | 40 | <u>819</u> | |

| STORAGE LOCKERS | S PROVIDED |
|-----------------|------------|

| TOTAL | | |
|-------|---------|--|
| TOTAL | | |
| | I TOTAL | |
| | 1 | |
| | | |

| BICYCLE P | ARKING PROVISIO | ON BREAKDOW | VN BY FLOOR LEVE | ïL |
|-----------|-----------------|-------------|------------------|-------------|
| LEVEL | RESIDENTIAL | VISITOR | NON-RES. 1 & 2 | TOTAL |
| MEZZ | 430 | | | 430 |
| L01 | 26 | 300 | | 330 |
| P2 | 444 | | | 444 |
| TOTAL | | | | <u>1204</u> |





057.92 m²

DIUM; TOWER A @ 61 STY + MPH; TOWER B @ 45 STY + MPH;

1 STY + MPH; TOWER B @ 45 STY + MPH 4.0 m (W) x 7.5 M (H)

AKVILLE BY-LAW NUMBER 2023-065 "MEANS THE TOTAL AREA OF ALL OF THE FLOORS IN A TERIOR WALLS, BUT SHALL NOT INCLUDE AN *ATTIC, BASEMENT OR MECHANICAL PENTHOUSE.*
 FLOOR SPACE INDEX (FSI) DEFINITION PER TOWN OF OAKVILLE BY-LAW 2014-014 &

 AMENDED IN BY-LAW 2023-065 "MEANS THE GROSS FLOOR AREA OF ALL BUILDINGS ON A LOT DIVIDED BY THE LOT AREA."



Teeple Architects

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Teeple Architects Inc.

| NO. | DATE: | ISSUED FOR: |
|-----|------------|--------------------|
| 1 | 2024-02-16 | ISSUED FOR OPA/ZBA |
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ARCHITECT Teeple Architects Inc. 5 Camden Street, Toronto, ON, Canada, M5V 1V2 T. 416.598.0554

STRUCTURAL --

MECHANICAL -

ELECTRICAL

-

-

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Trafalgar Engineering Limited 1-481 Morden Road, Oakville, ON, L6K 2W6 T. 905.338.3366

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SOLID WASTE MANAGEMENT R.J. Burnside & Asscoiates Limited 1465 Pickering Parkway, Pickering, ON, L1V 7G7 T. 1.800.265.9662

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CLIENT **Distrikt Developments** 1-90 Wingold Avenue, Toronto, ON, Canada M6B 1P5 T. 416.628.8038





A001



WASTE MANAGEMENT NOTES:

- RESPECTIVELY)
- THE NEXT SCHEDULED COLLECTION DAY.
- 4.5m CLEARANCE UNDER OVERHEAD DOORS.
- CLEARANCE OF 7.5m. COLLECTION VEHICLE AT 35 METRIC TONNES.
- DOES NOT CONFLICT WITH ANY RESIDENTIAL USES.
- 10 RESIDENTIAL COLLECTION AT THIS SITE.
- i) DESIGN CODE ONTARIO BUILDING CODE SPEEDS
- 12. SPACE.
- 13.
- THE AIR EXCHANGE RATE FOR WASTE STORAGE ROOMS TO BE A MINIMUM OF ONE-CUBIC FOOT 14.
- WASTE MANAGEMENT PLAN.

| TABLE 1. WASTE CONTAINER COMPUTATION | | | | |
|--------------------------------------|-----------------------------|------------|---|--|
| WASTE STREAM | CONTAINER TYPES | AREA (SQM) | NUMBER OF RESIDENTIAL UNITS SERVICED PER BIN | |
| GARBAGE (COMPACTED) | 3 CUBIC YARD FRONT-LIFT BIN | 2.27 | 54 | |
| RECYCLING (UNCOMPACTED) | 4 CUBIC YARD FRONT-LIFT BIN | 2.78 | 56 | |
| ORGANICS | 360 L SEMI-AUTOMATED CART | 0.80 | 25 | |

TABLE 2: REQUIRED RESIDENTIAL WASTE STORAGE ROOM AREA

| | NUMBER OF RESIDENTIAL UNITS | APPROXIMATE WASTE STORAGE ROOM SPATIAL REQUIREMENT (SQM) ** |
|---|--------------------------------|--|
| BUILDING A | 694 | 191.01 |
| BUILDING B | 504 | 201.77 |
| TOTAL | <u>1198</u> | 392.78 |
| ** EXCLUDES 10 SQM REQUIRED FOR BULKY WASTE STORAGE | | |

| TABLE 3: WASTE CONTAINER COUNTS | | | |
|---------------------------------|--|----------------------|----------------------|
| NUMBER OF RESIDENTIAL UNITS | | 694 | 504 |
| WASTE STREAM | CONTAINER | BUILDING A # BINS | BUILDING B # BINS |
| GARBAGE (COMPACTED) | 3 YARD ³ FRONT-LIFT | 14 | 11 |
| RECYCLING | 4 YARD ³ YARD FRONT-LIFT | 14 | 10 |
| ORGANICS | 360 L SEMI- AUTOMATED CART | 29 | 22 |

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THE WASTE LOADING SPACE WILL BE CONSTRUCTED OF AT LEAST 200mm THICK (MIN.) REINFORCED CONCRETE, BE LEVEL (±2%), AND BE AT LEAST 6m WIDE X 13m LONG AND HAVE VERTICAL

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ii) DESIGN LOAD - CITY BULK LIFT VEHICLE IN ADDITION TO BUILDING CODE REQUIREMENTS iii) IMPACT FACTOR - 5% FOR MAXIMUM VEHICULAR SPEEDS TO 15KM/H AND 30% FOR HIGHER

DOUBLE DOORS (MINIMUM 2.2m WIDTH) TO BE PROVIDED TO ACCESS EACH WASTE STORAGE (AND BULKY WASTE STORAGE) ROOM. THESE DOORS SHALL OPEN OUTWARDS TO MAXIMIZE STORAGE

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PER MINUTE PER SQUARE FOOT OF FLOOR SPACE (1 CFM/FT^2). THIS DRAWING TO BE READ IN CONJUNCTION WITH R.J. BURNSIDE & ASSOCIATES LIMITED, SOLID

WASTE BINS AND CARTS SHOWN ON THESE DRAWINGS ARE REPRESENTATIONAL ONLY.

TABLE 1. WASTE CONTAINER COMPLITATION

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LOADING PLAN

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RESPECTIVELY) THE NEXT SCHEDULED COLLECTION DAY. 4.5m CLEARANCE UNDER OVERHEAD DOORS. 5. CLEARANCE OF 7.5m. 6. COLLECTION VEHICLE AT 35 METRIC TONNES. DOES NOT CONFLICT WITH ANY RESIDENTIAL USES. RESIDENTIAL COLLECTION AT THIS SITE. 11 i) DESIGN CODE - ONTARIO BUILDING CODE SPEEDS SPACE. THE ROOM AND WASTE CONTAINERS. 14. THE AIR EXCHANGE RATE FOR WASTE STORAGE ROOMS TO BE A MINIMUM OF ONE-CUBIC FOOT WASTE MANAGEMENT PLAN. 16.

| WASTE STREAM | CONTAINER TYPES | AREA (SQM) | NUMBER OF RESIDENTIAL UNITS SERVICED PER BIN | |
|----------------------------|-----------------------------|------------|---|--|
| GARBAGE (COMPACTED) | 3 CUBIC YARD FRONT-LIFT BIN | 2.27 | 54 | |
| RECYCLING (UNCOMPACTED) | 4 CUBIC YARD FRONT-LIFT BIN | 2.78 | 56 | |
| ORGANICS | 360 L SEMI-AUTOMATED CART | 0.80 | 25 | |

TABLE 2: REQUIRED RESIDENTIAL WASTE STORAGE ROOM AREA

| | NUMBER OF RESIDENTIAL UNITS | APPROXIMATE WASTE STORAGE ROOM SPATIAL REQUIREMENT (SQM) ** |
|---|--------------------------------|--|
| BUILDING A | 694 | 191.01 |
| BUILDING B | 504 | 201.77 |
| TOTAL | <u>1198</u> | 392.78 |
| ** EXCLUDES 10 SQM REQUIRED FOR BULKY WASTE STORAGE | | |

| TABLE 3: WASTE CONTAINER COUNTS | | | |
|---------------------------------|--|----------------------|----------------------|
| NUMBER OF RESIDENTIAL UNITS | | 694 | 504 |
| WASTE STREAM | CONTAINER | BUILDING A # BINS | BUILDING B # BINS |
| GARBAGE (COMPACTED) | 3 YARD ³ FRONT-LIFT | 14 | 11 |
| RECYCLING | 4 YARD ³ YARD FRONT-LIFT | 14 | 10 |
| ORGANICS | 360 L SEMI- AUTOMATED CART | 29 | 22 |

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PER MINUTE PER SQUARE FOOT OF FLOOR SPACE (1 CFM/FT^2). 15. THIS DRAWING TO BE READ IN CONJUNCTION WITH R.J. BURNSIDE & ASSOCIATES LIMITED, SOLID

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TYPICAL 2 SIDE OBSTRUCTED

TYPICAL 1 SIDE OBSTRUCTED

TYPICAL

DOUBLE ACCESSIBLE VEHICLE

SINGLE ACCESSIBLE VEHICLE

| 40 | NON-RESIDENTIAL* | |
|---|------------------|--|
| 39 | VISITOR | |
| 79 | TOTAL | |
| POTENTIAL RETAIL ANR/OR POTENTIAL DAYCARE, TB | | |

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ARCHITECTS STEPHEN R. TEEPL LICENCE 4078

LEVEL P1 PLAN

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LEVEL 1 PLAN

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2 SOUTH ELEVATION

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NORTH & SOUTH **ELEVATIONS**

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1 WEST ELEVATION

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Appendix B

Waste Collection Vehicle Turning Path Analysis



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