

Our ref: 12624194

March 13, 2026

Mike Vernooy  
Neatt Communities  
775 Main Street East  
Milton, Ontario  
L9T 3Z2

**Waste Management Plan for a Mixed-Use Development at Dundas Street West and 3056 Neyagawa Boulevard, Oakville, Ontario**

Dear Mike Vernooy,

## 1. Introduction

GHD Limited (GHD) was retained by Neatt Communities to complete a Waste Management Plan in support of a development application for a proposed residential development located at 3056 Neyagawa Boulevard in the Town of Oakville, Ontario (Site). The proposed development consists of seven residential towers arranged into three blocks, including a total of 2,178 residential units and retail spaces located within two of the towers. A description of each of the components of the development is as follows:

- Block 1
  - Building 1: 24-storeys consisting of 371 residential units with 1,032 m<sup>2</sup> of proposed retail space on the ground floor
  - Building 2: 20-storeys consisting of 274 residential units
- Block 2
  - Building 3: 18-storeys consisting of 266 residential units with approximately 872 m<sup>2</sup> of proposed retail space on the ground floor
  - Building 4: 24-storeys consisting of 340 residential units
  - Building 5: 26-storeys consisting of 365 residential units
- Block 3
  - Building 6: 15-storeys consisting of 216 residential units
  - Building 7: 20-storeys consisting of 346 residential units
- Parking structure – underground resident and visitor parking; limited at-grade parking for short-term pick-up/drop-off

The Waste Management Plan has been prepared to address requirements of 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)<sup>1</sup>.

---

<sup>1</sup> Halton Region. (2014). Development Design Guidelines for Source Separation of Solid Waste

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 commercial and residential waste types and amounts
- Retail and residential waste storage options
- Retail and residential waste collection details
- Best management practices to address common waste-related complaints
- Recommendations

## 2. Draft waste management plan

### 2.1 Site plan

As stated above the proposed development consists of 2,178 units within seven residential towers, including two retail units in Block 1 – Building 1 with a total of 1,032 m<sup>2</sup> gross floor area and one retail unit in Block 2 – Building 3 with approximately 872 m<sup>2</sup> of gross floor area (see **Figure 1** for Site Plan). Each of the buildings has its own dedicated Garbage Room located on the P1 level (see **Figures 2, 3, and 4**), connected with two waste chutes that are accessible to all residents on all floors of the building (see **Figure 5** for a typical floor plan). Each set of waste chutes will include one dedicated chute for recycling and one chute that will discharge into a two-waste stream (garbage and organics) sorting compaction system. Since these residential waste storage areas will have the waste dual-sorter and compactor system, for safety reasons, residents will not have access to these areas. 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

**Figures 6 (in-bound)** and **7 (out-bound)** show the anticipated movement of the waste collection vehicles (auto-turn analysis). As demonstrated in these figures, the geometrics of the proposed loading turnaround areas will facilitate the safe and unobstructed movement of the waste collection vehicle. 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.

#### Block 1

The waste collection vehicle will access the waste from the Block 1 loading area by entering the Site through either Street A or Street B from the proposed extension of 16 Mile Drive and can gain access to the waste collection point by driving into the loading area on the Ground Floor of Building 2 through Street B or Neyagawa Boulevard (**Figure 6**). Once the waste has been loaded, the vehicle will reverse back a few metres and will exit the Site in a forward direction onto Neyagawa Boulevard (**Figure 7**).

The waste collection vehicle route is open and is not obstructed by any overhangs.

#### Block 2

The waste collection vehicle will access the waste from the Block 2 loading area by entering the Site from the proposed extension of 16 Mile Drive and gain access to the waste collection point by driving into the loading area on the Ground Floor of Building 3 (**Figure 6**). Once the waste has been loaded, the vehicle will reverse

out of the loading area and exit the Site in a forward direction through the same access point onto the proposed extension of 16 Mile Drive (**Figure 7**).

The waste collection vehicle route is open and is not obstructed by any overhangs.

### Block 3

The waste collection vehicle will access the Block 3 waste loading area by entering the Site from the proposed extension of 16 Mile Drive through the Street A access point and continuing to enter Street C to gain access to the waste collection point for Block 3 by driving into the loading area on the Ground Floor of Building 7 (**Figure 6**). Once the waste has been loaded, the vehicle will exit the Site by reversing from the loading area and exiting in a forward direction along Street C and Street A, to exit through the Street A access point onto the Dundas Street West (**Figure 7**).

The waste collection vehicle route is open and is not obstructed by any overhangs.

## 2.2 Waste volume

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.

### 2.2.1 Residential

Based on the Region's requirements, each building will have:

- 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
- Secure access to the compactor with no general access

#### 2.2.1.1 Block 1

In terms of Buildings 1 and 2, the estimated residential waste volumes were determined by working backwards from the Region's Guideline standards for waste capacity requirements. Halton Region collects 3 and 4 cubic yard (cu. yd.) garbage and recycling bins and 95-gallon carts for organics, based on the types of collection vehicles utilized. Based on the number of units, 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 1 (371 Units)*

| Minimum Number of Bins Required - Residential | Value               | Unit              |
|-----------------------------------------------|---------------------|-------------------|
| Garbage (compacted)                           | 5                   | 3 cu. yd. bin(s)  |
| Recycling                                     | 9                   | 3 cu. yd. bin(s)  |
| Organics                                      | 15                  | 95-gallon cart(s) |
| Total Bin/Cart Footprint Area                 | 64.1 m <sup>2</sup> |                   |

The current Building 1 Garbage Room provides a sufficient area of 123.5 m<sup>2</sup>.

### Building 2 (274 Units)

| Minimum Number of Bins Required - Residential | Value               | Unit              |
|-----------------------------------------------|---------------------|-------------------|
| Garbage (compacted)                           | 4                   | 3 cu. yd. bin(s)  |
| Recycling                                     | 7                   | 3 cu. yd. bin(s)  |
| Organics                                      | 11                  | 95-gallon cart(s) |
| Total Bin/Cart Footprint Area                 | 54.1 m <sup>2</sup> |                   |

The current Building 2 Garbage Room provides a sufficient area of 96.8 m<sup>2</sup>.

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

Should private collection be contemplated for this development, the minimum number of 3-cu. yd. organics bins for each of the buildings is as follows:

- Building 1 – 3 bins (3 cu. yd.)
- Building 2 – 2 bins (3 cu. yd.)

### Garbage

- As per the Region's Guideline, developments with 200 plus units should have a 3-cu. yd. compacter with three bins on wheels.
- Using the dimensions of a 3-cu. yd. bin included in the Region's Guideline and keeping in mind that as per industry standards the bins should be separated by a minimum of 0.76 m, the total space required for garbage storage is as follows:
  - Building 1 – 11.4 m<sup>2</sup>
  - Building 2 – 9.1 m<sup>2</sup>

### Recyclable material

- Using the dimensions of a 3-cu. yd. bin included in the Region's Guideline and keeping in mind that as per industry standards the bins should be separated by a minimum of 0.76 m, the total space required for recycling storage is as follows:
  - Building 1 – 20.5 m<sup>2</sup>
  - Building 2 – 15.9 m<sup>2</sup>

### Organic waste

- As per the Region's Guideline, space allotment for organics carts should be 0.8 m by 1 m per cart. Total storage space is as follows for organic waste:
  - Building 1 – 12 m<sup>2</sup>
  - Building 2 – 8.8 m<sup>2</sup>

### 2.2.1.2 Block 2

In terms of Buildings 3, 4, and 5, the estimated residential waste volumes were determined by working backwards from the Region's Guideline standards for waste capacity requirements. Halton Region collects 3 and 4 cu. yd. garbage and recycling bins and 95-gallon carts for organics, based on the types of collection vehicles utilized. Based on the number of units, 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 3 (266 Units)**

| Minimum Number of Bins Required - Residential | Value               | Unit              |
|-----------------------------------------------|---------------------|-------------------|
| Garbage (compacted)                           | 4                   | 3 cu. yd. bin(s)  |
| Recycling                                     | 6                   | 3 cu. yd. bin(s)  |
| Organics                                      | 11                  | 95-gallon cart(s) |
| Total Bin/Cart Footprint Area                 | 51.8 m <sup>2</sup> |                   |

The current Building 3 Garbage Rooms provides a sufficient area of 105.1 m<sup>2</sup>.

**Building 4 (340 Units)**

| Minimum Number of Bins Required - Residential | Value               | Unit              |
|-----------------------------------------------|---------------------|-------------------|
| Garbage (compacted)                           | 5                   | 3 cu. yd. bin(s)  |
| Recycling                                     | 8                   | 3 cu. yd. bin(s)  |
| Organics                                      | 14                  | 95-gallon cart(s) |
| Total Bin/Cart Footprint Area                 | 61.0 m <sup>2</sup> |                   |

The current Building 4 Garbage Rooms provides a sufficient area of 85.7 m<sup>2</sup>.

**Building 5 (365 Units)**

| Minimum Number of Bins Required - Residential | Value               | Unit              |
|-----------------------------------------------|---------------------|-------------------|
| Garbage (compacted)                           | 5                   | 3 cu. yd. bin(s)  |
| Recycling                                     | 9                   | 3 cu. yd. bin(s)  |
| Organics                                      | 15                  | 95-gallon cart(s) |
| Total Bin/Cart Footprint Area                 | 61.8 m <sup>2</sup> |                   |

The current Building 5 Garbage Rooms provides a sufficient area of 104.3 m<sup>2</sup>.

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

Should private collection be contemplated for this development, the minimum number of 3-cu. yd. organics bins for each of the buildings is as follows:

- Building 3 – 2 bins (3 cu. yd.)
- Building 4 – 3 bins (3 cu. yd.)
- Building 5 – 3 bins (3 cu. yd.)

**Garbage**

- As per the Region's Guideline, developments with 200 plus units should have a 3-cu. yd. compacter with three bins on wheels.
- Using the dimensions of a 3-cu. yd. bin included in the Region's Guideline and keeping in mind that as per industry standards the bins should be separated by a minimum of 0.76 m, the total space required for garbage storage is as follows:
  - Building 3 – 9.1 m<sup>2</sup>
  - Building 4 – 11.4 m<sup>2</sup>
  - Building 5 – 11.4 m<sup>2</sup>

## Recyclable material

- Using the dimensions of a 3-cu. yd. bin included in the Region's Guideline and keeping in mind that as per industry standards the bins should be separated by a minimum of 0.76 m, the total space required for recycling storage is as follows:
  - Building 3 – 13.6 m<sup>2</sup>
  - Building 4 – 18.2 m<sup>2</sup>
  - Building 5 – 20.5 m<sup>2</sup>

## Organic waste

- As per the Region's Guideline, space allotment for organics carts should be 0.8 m by 1 m per cart. Total storage space is as follows for organic waste:
  - Building 3 – 8.8 m<sup>2</sup>
  - Building 4 – 11.2 m<sup>2</sup>
  - Building 5 – 12 m<sup>2</sup>

### 2.2.1.3 Block 3

In terms of Buildings 6 and 7, the estimated residential waste volumes were determined by working backwards from the Region's Guideline standards for waste capacity requirements. Halton Region collects 3 and 4 cu. yd. garbage and recycling bins and 95-gallon carts for organics, based on the types of collection vehicles utilized. Based on the number of units, 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 6 (216 Units)*

| Minimum Number of Bins Required - Residential | Value               | Unit              |
|-----------------------------------------------|---------------------|-------------------|
| Garbage (compacted)                           | 3                   | 3 cu. yd. bin(s)  |
| Recycling                                     | 5                   | 3 cu. yd. bin(s)  |
| Organics                                      | 9                   | 95-gallon cart(s) |
| Total Bin/Cart Footprint Area                 | 45.6 m <sup>2</sup> |                   |

The current Building 6 Garbage Rooms provides a sufficient area of 73.2 m<sup>2</sup>.

#### *Building 7 (346 Units)*

| Minimum Number of Bins Required - Residential | Value             | Unit              |
|-----------------------------------------------|-------------------|-------------------|
| Garbage (compacted)                           | 5                 | 3 cu. yd. bin(s)  |
| Recycling                                     | 8                 | 3 cu. yd. bin(s)  |
| Organics                                      | 14                | 95-gallon cart(s) |
| Total Bin/Cart Footprint Area                 | 61 m <sup>2</sup> |                   |

The current Building 7 Garbage Rooms provides a sufficient area of 90.1 m<sup>2</sup>.

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

Should private collection be contemplated for this development, the minimum number of 3-cu. yd. organics bins for each of the buildings is as follows:

- Building 6 – 2 bins (3 cu. yd.)
- Building 7 – 3 bins (3 cu. yd.)

As per the waste management requirements in the Region's Guideline there will be:

#### **Garbage**

- As per the Region's Guideline, developments with 200 plus units should have a 3-cu. yd. compacter with three bins on wheels.
- Using the dimensions of a 3-cu. yd. bin included in the Region's Guideline and keeping in mind that as per industry standards the bins should be separated by a minimum of 0.76 m, the total space required for garbage storage is as follows:
  - Building 6 – 6.8 m<sup>2</sup>
  - Building 7 – 11.4 m<sup>2</sup>

#### **Recyclable material**

- Using the dimensions of a 3-cu. yd. bin included in the Region's Guideline and keeping in mind that as per industry standards the bins should be separated by a minimum of 0.76 m, the total space required for recycling storage is as follows:
  - Building 6 – 11.4 m<sup>2</sup>
  - Building 7 – 18.2 m<sup>2</sup>

#### **Organic waste**

- As per the Region's Guideline, space allotment for organics carts should be 0.8 m by 1 m per cart. Total storage space is as follows for organic waste:
  - Building 6 – 7.2 m<sup>2</sup>
  - Building 7 – 11.2 m<sup>2</sup>

#### **Bulk waste**

A clear and accessible area is located on the Ground Floor of each building for the storage of large, bulk waste items. The Site Plan provides a minimum of 10 m<sup>2</sup> for bulk waste items on the Ground Floor of each block.

### **2.2.2 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. Given that the proposed uses are commercial retail, GHD has calculated a conservative estimate of 0.5 L/m<sup>2</sup>/day for commercial garbage and recycling waste generation for retail (non-food) space in Building 1

and Building 3 (see **Attachment 1** for detailed waste capacity calculations). With this waste and recycling generation in mind, the following number of bins are required for the Commercial use:

**Building 1 (1,032 m<sup>2</sup>)**

| Minimum Number of Bins Required – Commercial | Value               | Unit             |
|----------------------------------------------|---------------------|------------------|
| Garbage (compacted)                          | 2                   | 3 cu. yd. bin(s) |
| Recycling                                    | 2                   | 3 cu. yd. bin(s) |
| Total Bin/Cart Footprint Area                | 18.1 m <sup>2</sup> |                  |

The Site Plan provides a dedicated commercial Garbage Room in Building 1 with an area of 58.9 m<sup>2</sup>.

**Building 3 (872 m<sup>2</sup>)**

| Minimum Number of Bins Required – Commercial | Value               | Unit             |
|----------------------------------------------|---------------------|------------------|
| Garbage (compacted)                          | 2                   | 3 cu. yd. bin(s) |
| Recycling                                    | 2                   | 3 cu. yd. bin(s) |
| Total Bin/Cart Footprint Area                | 18.1 m <sup>2</sup> |                  |

The Site Plan provides a dedicated commercial Garbage Room in Building 3 with an area of 22.8 m<sup>2</sup>.

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
- Ensure collection contracts are established and executed

## 2.3 Waste collection

As stated above, the collection will occur at the dedicated waste collection point (labelled in **Figures 1, 6, and 7** as “Staging”). 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.

### 2.3.1 Residential

On collection day, the on-site staff member will be responsible for transporting all bins and carts using the waste caddy from the Residential Garbage Rooms on Parking Level 1 of Buildings 1-7 to their designated Staging and Loading areas on the Ground Floor via the parking ramp.

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, the collection of residential waste will be discussed as 2 phases:

**Phase 1 – Pre-90 Percent Occupancy** – The developer will be responsible for establishing a solid waste collection for residents as an interim measure.

**Phase 2 – 90 Percent Occupancy** – 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 “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.

### **2.3.1.1 Phase 1 – pre-90 percent occupancy**

#### **Schedule and frequency**

Based on the 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.

### **2.3.1.2 Phase 2 –90 percent occupancy achieved**

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.

#### **Schedule and frequency**

As per the Region’s Guidelines, the 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**

As stated in Section 3.3.1 of the Region’s Guidelines, commercial developments larger than seven units or more in size are not eligible for waste collection by Halton Region. Private waste collection must be arranged. Therefore, this development is not eligible for commercial waste collection by the Region. As such, a contract with a private waste hauler will be established before the commercial space is occupied.

#### **Schedule and frequency**

Based on the number of waste collection containers allocated for the commercial space, 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 as stated above 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.

## **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 point 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 Conclusions**

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

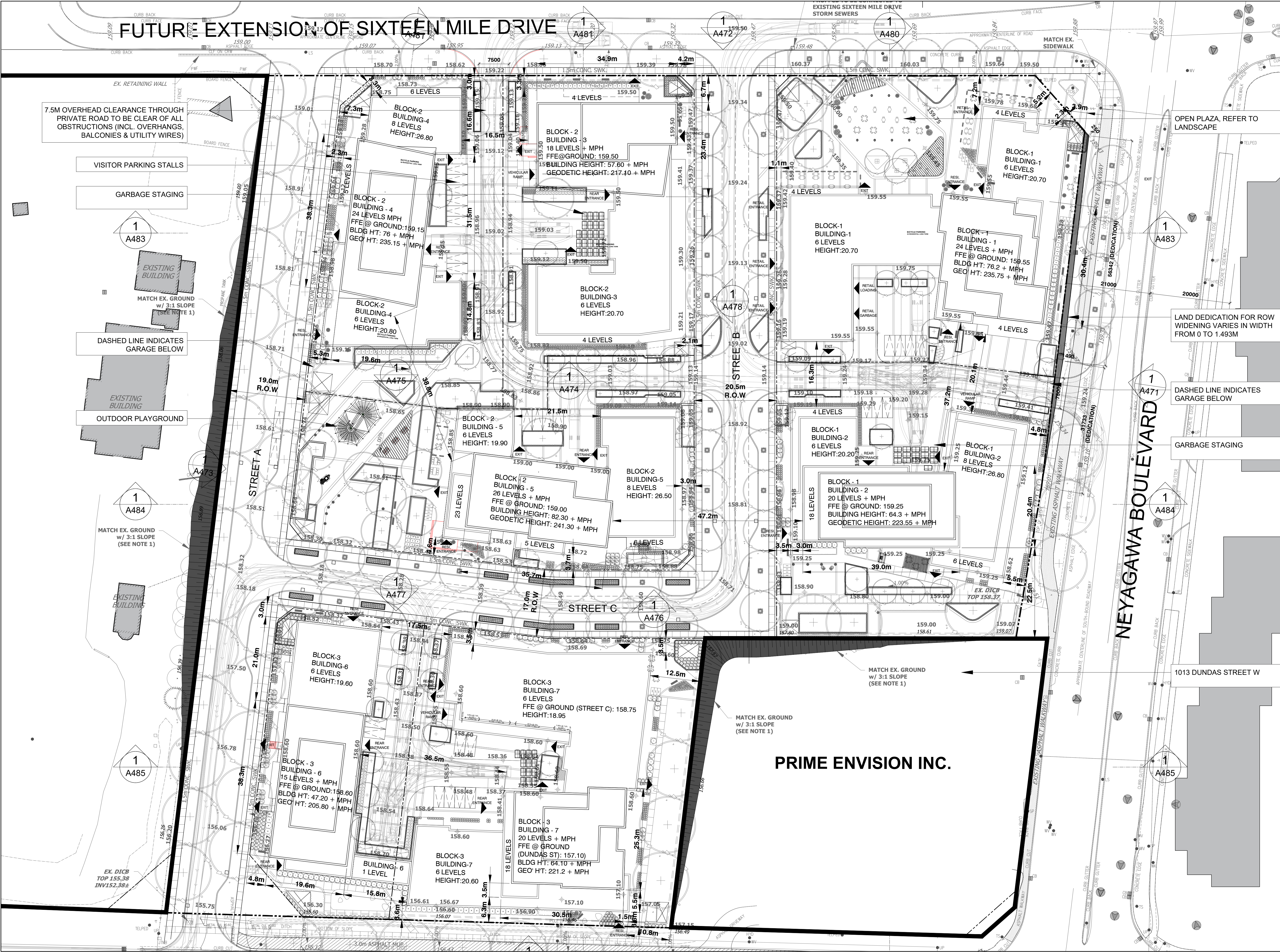
Should you have any questions on the above, please do not hesitate to contact us.

Regards,



**Erika Brown, MEnv., RPP**  
Waste & Environmental Planner

+1 416 866-2351  
erika.brown@ghd.com



- LEGEND**
- NOTES:**
- OVERHEAD CLEARANCE THROUGHOUT THE PRIVATE ROAD MUST BE A MINIMUM OF 7.5 M AND BE FREE FROM OBSTRUCTIONS SUCH AS OVERHANGS, AWNINGS, UTILITY WIRES, BALCONIES, AND MUST BE KEPT CLEAR OF TREE BRANCHES, ETC
  - ALL PRIVATE ROADS AND SUPPORTED STRUCTURES ALONG THE WASTE COLLECTION ROUTE MUST BE DESIGNED AND CONSTRUCTED TO SUPPORT A MINIMUM OF 35 TONNES (THE WEIGHT OF A FULLY LOADED WASTE TRUCK). THE REGION WILL RECEIVE A LETTER, CERTIFIED BY AN ONTARIO PROFESSIONAL ENGINEER, IN ADVANCE OF ANY INITIAL WASTE COLLECTION, INDICATING THAT THE SUPPORTED STRUCTURE CAN SUPPORT A FULLY LOADED WASTE TRUCK
  - THE COLLECTION POINT MUST BE LEVEL (THE CHANGE OF GRADE MUST BE LABELLED ON THE SITE PLAN AND NOT BE MORE THAN +/- 2%)
  - A TRAINED ON-SITE STAFF MEMBER TO BE AVAILABLE TO MANUEVER WASTE BINS FOR CITY COLLECTION AT THE LOADING AREA AND ALSO ACT AS A FLAGMAN WHEN TRUCK IS PARKING AND REVERSING.
  - RETAIL MANAGEMENT MUST ARRANGE FOR THEIR COLLECTION DAYS TO BE SCHEDULED ON OPPOSITE DAYS FROM THOSE OF THE RESIDENTIAL COLLECTION DAYS.
  - RETAIL / COMMERCIAL BINS WILL BE LABELED SEPARATELY, AND MUST BE CLEARLY LABELED.
  - ILLUSTRATED VEHICLE MOVEMENT DIAGRAM IS TAKEN FROM TRAFFIC REPORT. REFER ALSO TO TRAFFIC REPORT.
  - REFER TO SITE SERVICING AND GRADING PLAN FOR DETAILED GRADING.
  - REFER TO LANDSCAPE PLAN FOR PLANTING AND PAVING LOCATION, MATERIALS AND DETAILS.
  - TWO CHUTES EQUIPPED. ONE C/W BI-SORTER FOR GARBAGE (G) AND COMPOST (C). OTHER CHUTE FOR RECYCLING (R). GARBAGE STREAM ATTACHED TO COMPACTOR

Figure 1

|     |                                         |             |
|-----|-----------------------------------------|-------------|
| 04  | RE-ISSUED FOR OPA & ZBA                 | 13 MAR 2026 |
| 03  | ISSUED FOR OPA & ZBA                    | 06 DEC 2024 |
| 02  | ISSUED FOR URBAN DESIGN BRIEF           | 31 OCT 2024 |
| 01  | ISSUED FOR PRE-CONSULTATION MEETING #02 | 05 SEP 2024 |
| NO. | REVISIONS                               | DATE        |

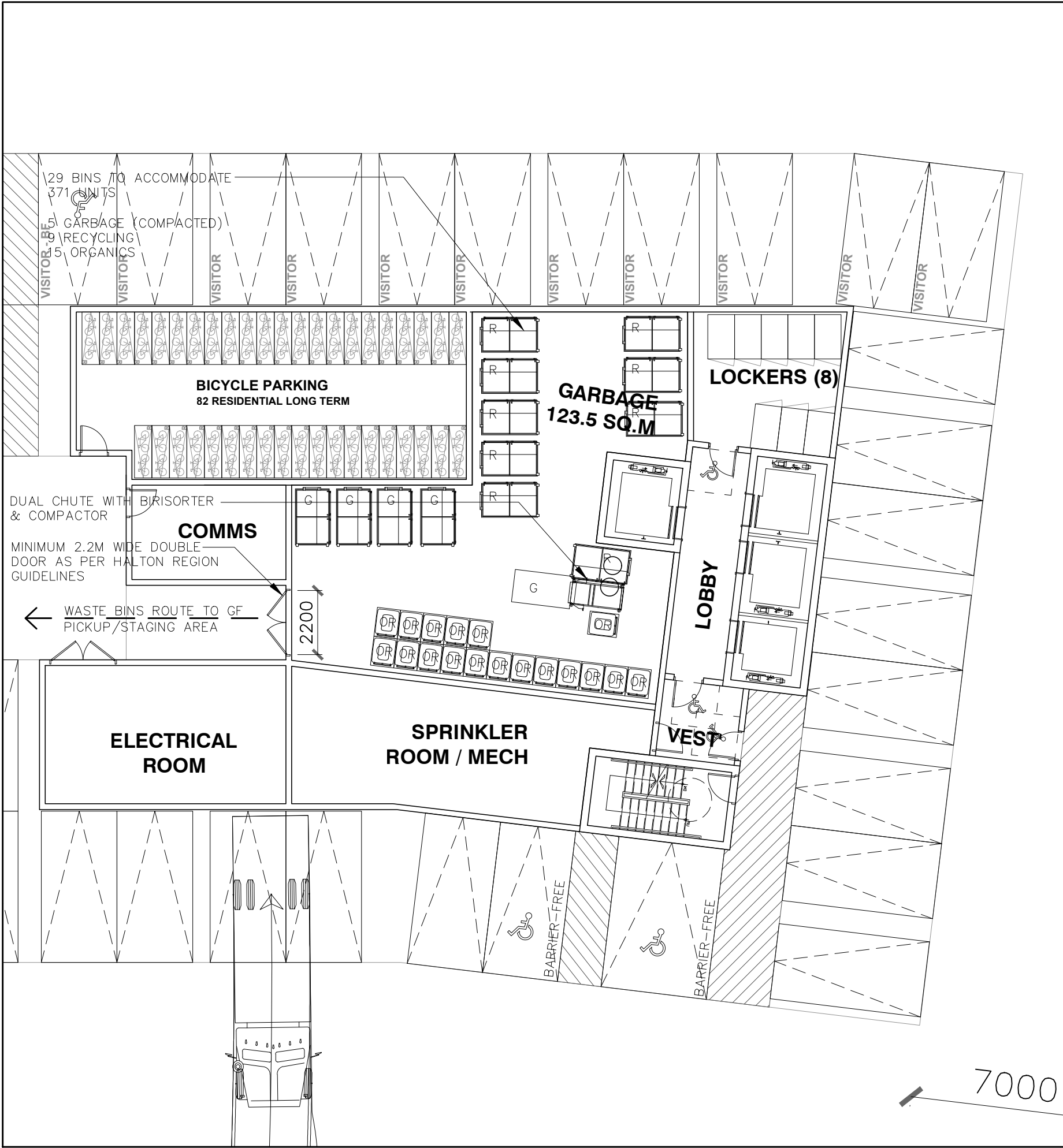
**COREARCHITECTS**  
180 QUEENS QUAY EAST, SUITE 700, WEST TOWER  
TORONTO, ON CANADA M5A 0P6  
T +1 416 343 0400 • F +1 416 343 0401  
INFO@COREARCHITECTS.COM  
WWW.COREARCHITECTS.COM

3056 NEYAGAWA BLVD  
OAKVILLE, ON

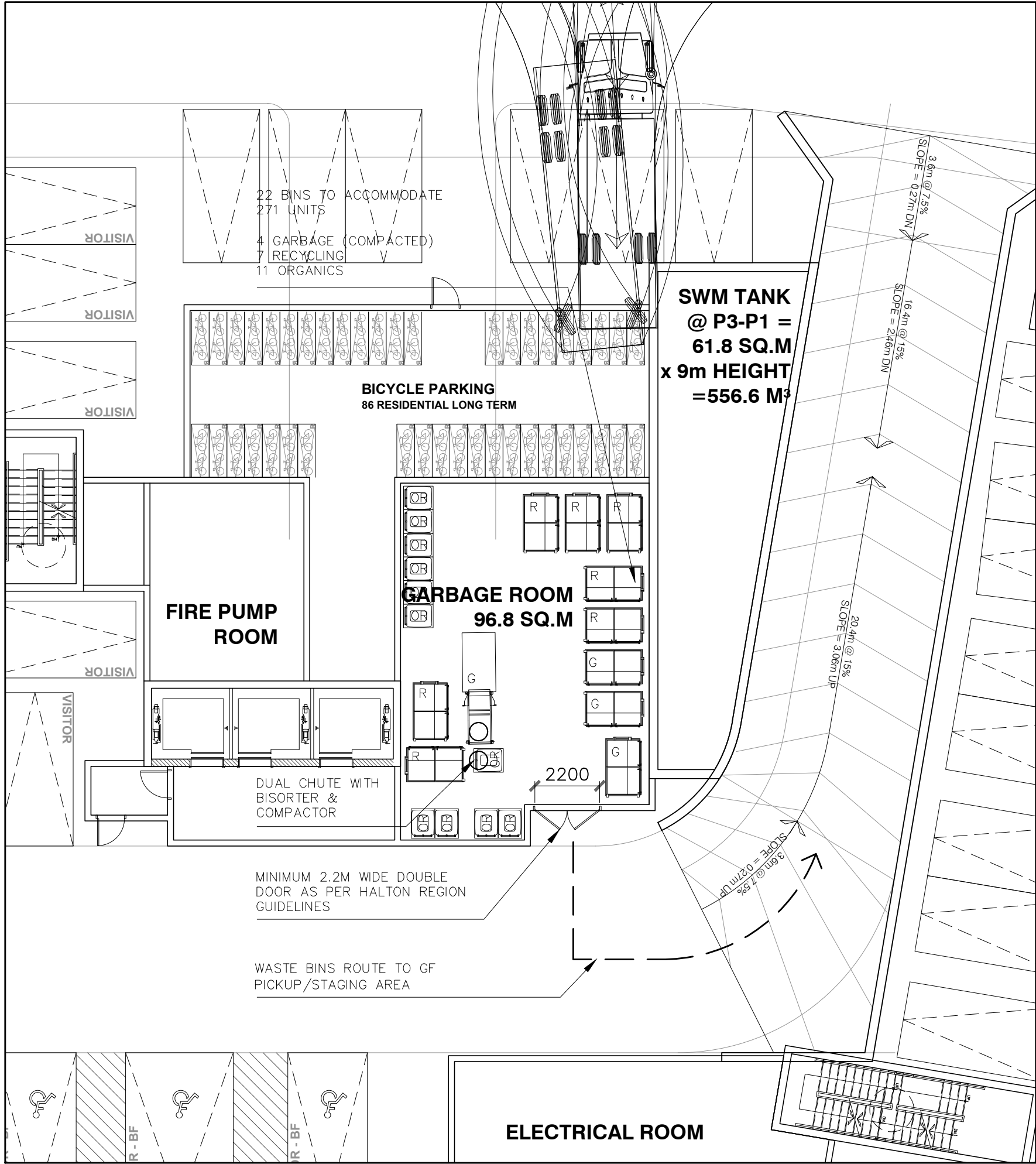
neatt



|                    |                    |
|--------------------|--------------------|
| Drawn<br>SR        | Scale<br>1:400     |
| Checked<br>CW      | Date<br>MARCH 2024 |
| Title<br>SITE PLAN |                    |



3 BUILDING 1 – GARBAGE ROOM @ P1  
A107



2 BUILDING 2 – GARBAGE ROOM @ P1  
A107



1 BLOCK 1 – LOADING AREA  
A107

| BUILDING 1<br>371 (UNITS)                     |       |                  |
|-----------------------------------------------|-------|------------------|
| MINIMUM NUMBER OF BINS REQUIRED – RESIDENTIAL | VALUE | UNIT             |
| GARBAGE                                       | 8     | 3 CU. YD. BIN(S) |
| RECYCLING                                     | 9     | 3 CU. YD. BIN(S) |
| ORGANIC                                       | 15    | 95 GAL. CART(S)  |
| TOTAL BIN/CART FOOTPRINT AREA                 |       | 64.1 SQ.M        |

| BUILDING 2<br>274 (UNITS)                     |       |                  |
|-----------------------------------------------|-------|------------------|
| MINIMUM NUMBER OF BINS REQUIRED – RESIDENTIAL | VALUE | UNIT             |
| GARBAGE                                       | 4     | 3 CU. YD. BIN(S) |
| RECYCLING                                     | 7     | 3 CU. YD. BIN(S) |
| ORGANIC                                       | 11    | 95 GAL. CART(S)  |
| TOTAL BIN/CART FOOTPRINT AREA                 |       | 54.1 SQ.M        |

- NOTES:
- NUMBER OF BINS AND AREAS CALCULATED AS PER HALTON REGION GUIDELINE. (REFER TO WASTE MANAGEMENT PLAN)
  - MINIMUM 2.2M WIDE DOUBLE DOOR AS PER HALTON REGION GUIDELINE
  - OVERHEAD CLEARANCE THROUGHOUT THE PRIVATE ROAD MUST BE MINIMUM OF 7.5M AND BE FREE FROM OBSTRUCTIONS SUCH AS OVERHANGS, AWNINGS, UTILITY WIRES, BALCONIES, AND MUST BE KEPT CLEAR OF TREE BRANCHES, ETC.
  - ALL PRIVATE ROADS AND SUPPORTED STRUCTURES ALONG THE WASTE COLLECTION ROUTE MUST BE DESIGNED AND CONSTRUCTED TO SUPPORT A MINIMUM OF 35 TONNES (THE WEIGHT OF A FULLY LOADED WASTE TRUCK).
  - COLLECTION POINT MUST BE LEVEL (THE 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).

LEGEND

- NOTES:
- OVERHEAD CLEARANCE THROUGHOUT THE PRIVATE ROAD MUST BE A MINIMUM OF 7.5 M AND BE FREE FROM OBSTRUCTIONS SUCH AS OVERHANGS, AWNINGS, UTILITY WIRES, BALCONIES, AND MUST BE KEPT CLEAR OF TREE BRANCHES, ETC.
  - ALL PRIVATE ROADS AND SUPPORTED STRUCTURES ALONG THE WASTE COLLECTION ROUTE MUST BE DESIGNED AND CONSTRUCTED TO SUPPORT A MINIMUM OF 35 TONNES (THE WEIGHT OF A FULLY LOADED WASTE TRUCK). THE REGION WILL RECEIVE A LETTER, CERTIFIED BY AN ONTARIO PROFESSIONAL ENGINEER, IN ADVANCE OF ANY INITIAL WASTE COLLECTION, INDICATING THAT THE SUPPORTED STRUCTURE CAN SUPPORT A FULLY LOADED WASTE TRUCK.
  - THE COLLECTION POINT MUST BE LEVEL (THE CHANGE OF GRADE MUST BE LABELLED ON THE SITE PLAN AND NOT BE MORE THAN +/- 2%)
  - A TRAINED ON-SITE STAFF MEMBER TO BE AVAILABLE TO MANEUVER WASTE BINS FOR CITY COLLECTION AT THE LOADING AREA AND ALSO ACT AS A FLAGMAN WHEN TRUCK IS PARKING AND REVERSING.
  - RETAIL MANAGEMENT MUST ARRANGE FOR THEIR COLLECTION DAYS TO BE SCHEDULED ON OPPOSITE DAYS FROM THOSE OF THE RESIDENTIAL COLLECTION DAYS.
  - RETAIL / COMMERCIAL BINS WILL BE LABELED SEPARATELY, AND MUST BE CLEARLY LABELED.
  - ILLUSTRATED VEHICLE MOVEMENT DIAGRAM IS TAKEN FROM TRAFFIC REPORT. REFER ALSO TO TRAFFIC REPORT.
  - REFER TO SITE SERVICING AND GRADING PLAN FOR DETAILED GRADING.
  - REFER TO LANDSCAPE PLAN FOR PLANTING AND PAVING LOCATION, MATERIALS AND DETAILS.
  - TWO CHUTES EQUIPPED. ONE C/W BI-SORTER FOR GARBAGE (G) AND COMPOST (C). OTHER CHUTE FOR RECYCLING (R). GARBAGE STREAM ATTACHED TO COMPACTOR

Figure 2

| 04  | RE-ISSUED FOR OPA & ZBA                 | 13 MAR 2026 |
|-----|-----------------------------------------|-------------|
| 03  | ISSUED FOR OPA & ZBA                    | 06 DEC 2024 |
| 02  | ISSUED FOR URBAN DESIGN BRIEF           | 31 OCT 2024 |
| 01  | ISSUED FOR PRE-CONSULTATION MEETING #02 | 05 SEP 2024 |
| NO. | REVISIONS                               | DATE        |

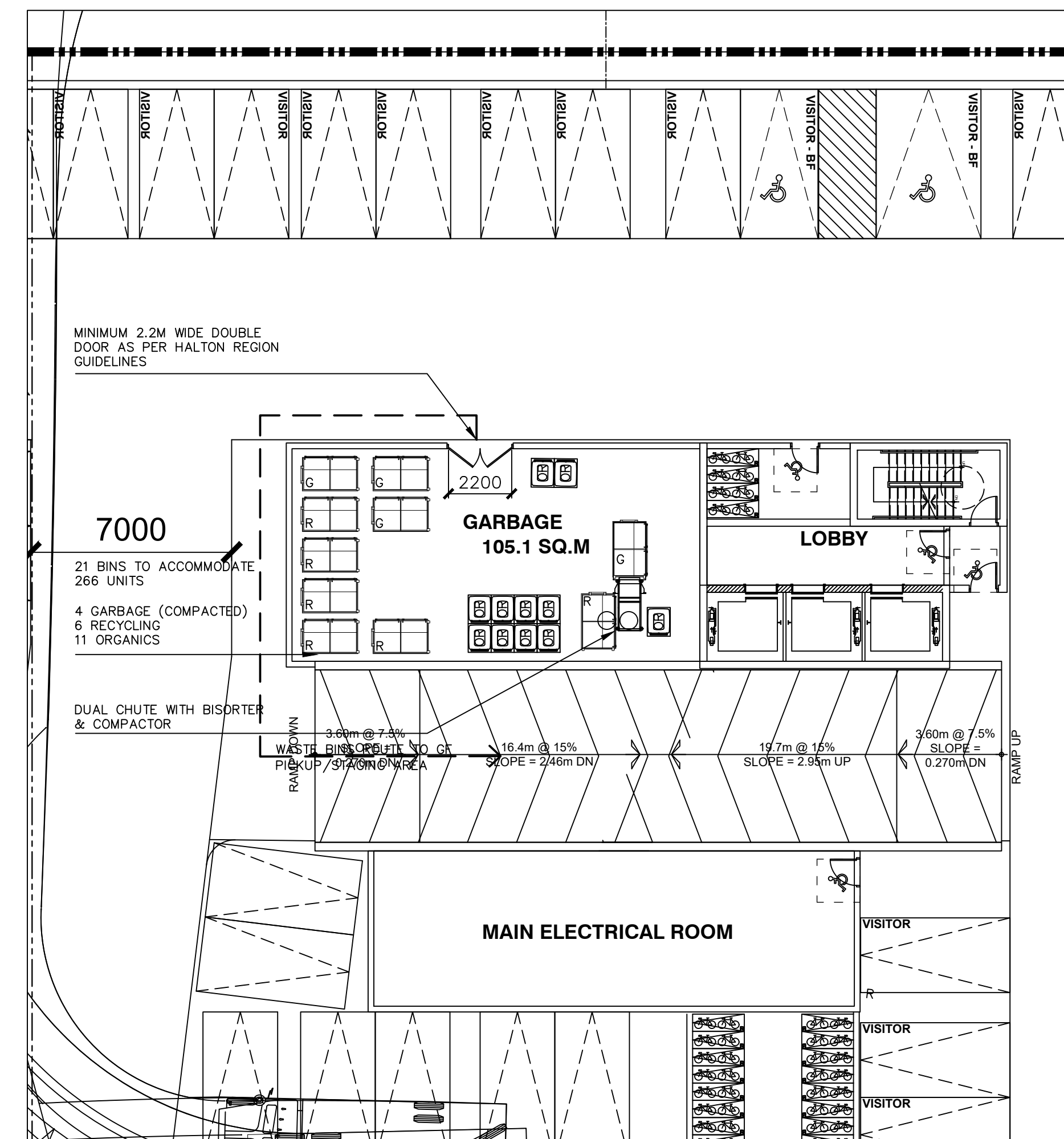
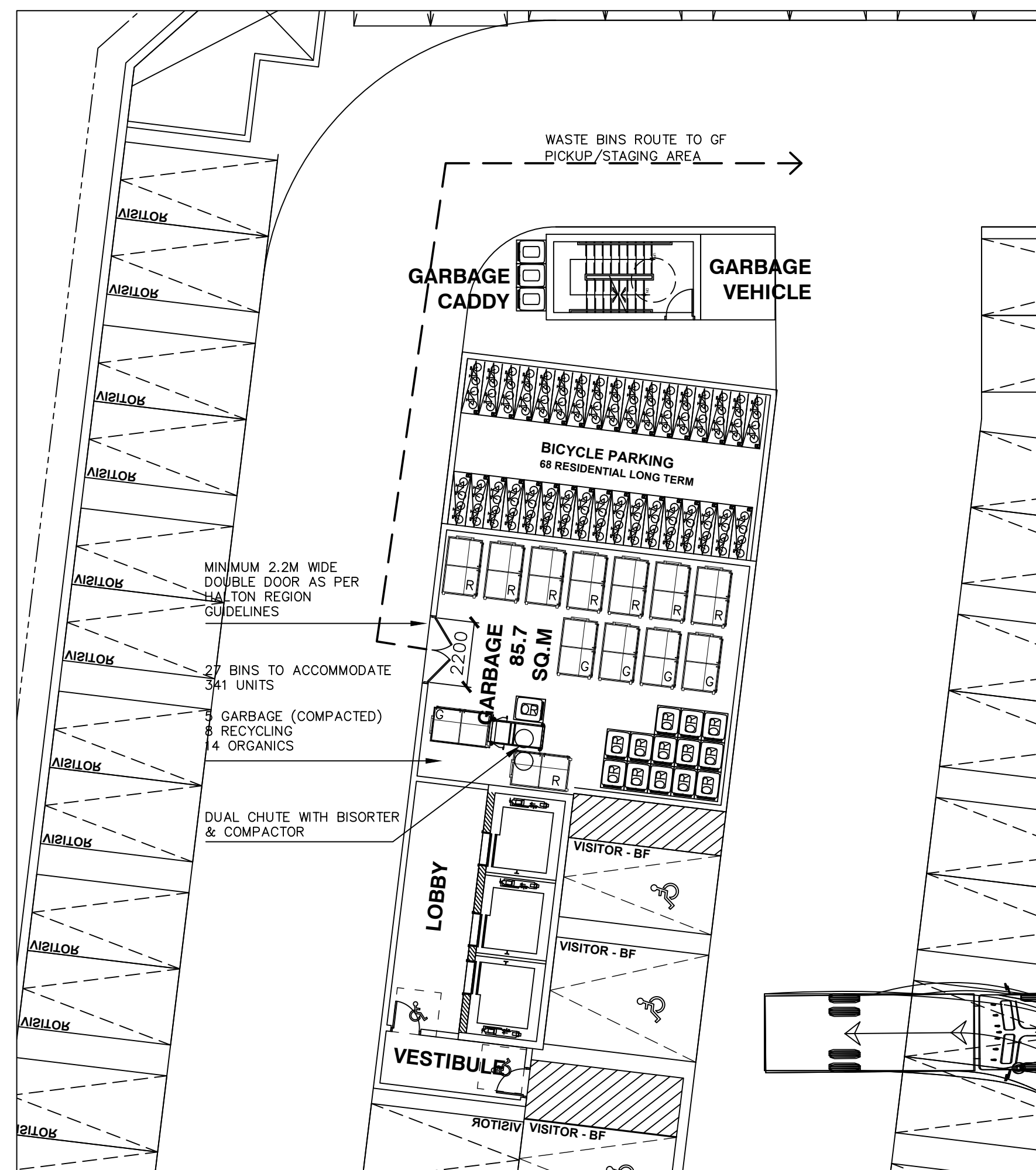
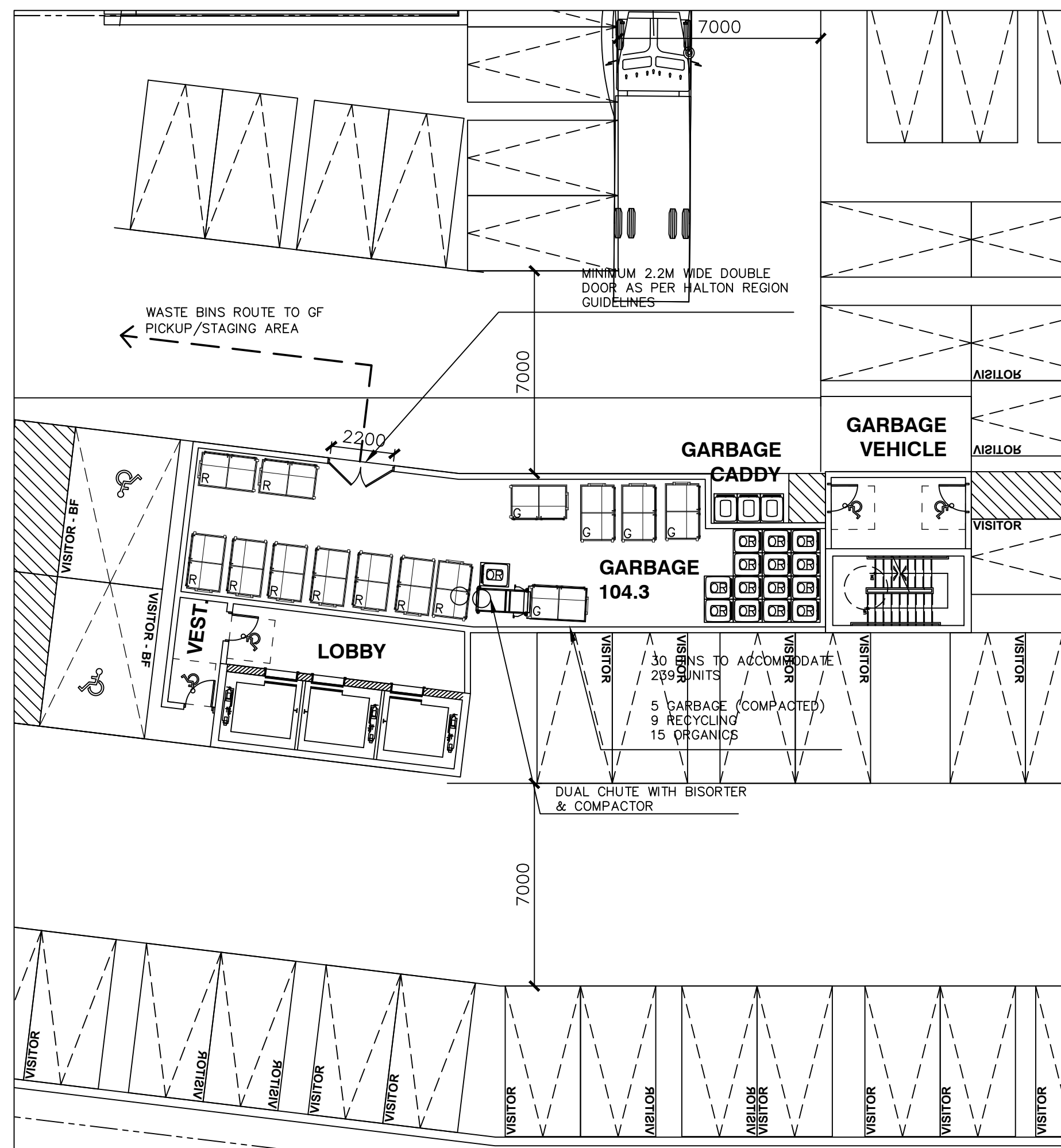
**COREARCHITECTS**  
180 QUEENS QUAY EAST, SUITE 700, WEST TOWER  
TORONTO, ON CANADA M5A 0P6  
T +1 416 343 0400 • F +1 416 343 0401  
INFO@COREARCHITECTS.COM  
WWW.COREARCHITECTS.COM

3056 NEYAGAWA BLVD  
OAKVILLE, ON

neatt



|                                       |                     |
|---------------------------------------|---------------------|
| Drawn<br>SR                           | Scale<br>1:150      |
| Checked<br>CW                         | Date<br>MARCH 2024  |
| Title<br>WASTE MANAGEMENT-<br>BLOCK 1 |                     |
| Project No.<br>23-109                 | Drawing No.<br>A107 |



## LEGEND

## NOTES

-OVERHEAD CLEARANCE THROUGHOUT THE PRIVATE ROAD MUST BE A MINIMUM OF 7.5 M AND BE FREE FROM OBSTRUCTIONS SUCH AS OVERHANGS, AWNINGS, UTILITY WIRES, BALCONIES, AND MUST BE KEPT CLEAR OF TREE BRANCHES, ETC

-ALL PRIVATE ROADS AND SUPPORTED STRUCTURES ALONG THE WASTE COLLECTION ROUTE MUST BE DESIGNED AND CONSTRUCTED TO SUPPORT A MINIMUM OF 35 TONNES (THE WEIGHT OF A FULLY LOADED WASTE TRUCK). THE REGION WILL RECEIVE A LETTER, CERTIFIED BY AN ONTARIO PROFESSIONAL ENGINEER, IN ADVANCE OF ANY INITIAL WASTE COLLECTION, INDICATING THAT THE SUPPORTED STRUCTURE CAN SUPPORT A FULLY LOADED WASTE TRUCK.

-THE COLLECTION POINT MUST BE LEVEL (THE CHANGE OF GRADE MUST BE LABELLED ON THE SITE PLAN AND NOT BE MORE THAN +/- 2%)

-A TRAINED ON-SITE STAFF MEMBER TO BE AVAILABLE TO MANEUVER WASTE BINS FOR CITY COLLECTION AT THE LOADING AREA AND ALSO ACT AS A FLAGMAN WHEN TRUCK IS PARKING AND REVERSING.

- RETAIL MANAGEMENT MUST ARRANGE FOR THEIR COLLECTION DAYS TO BE SCHEDULED ON OPPOSITE DAYS FROM THOSE OF THE RESIDENTIAL COLLECTION DAYS.
- RETAIL / COMMERCIAL BINS WILL BE LABELED SEPARATELY, AND MUST BE CLEARLY LABELED.

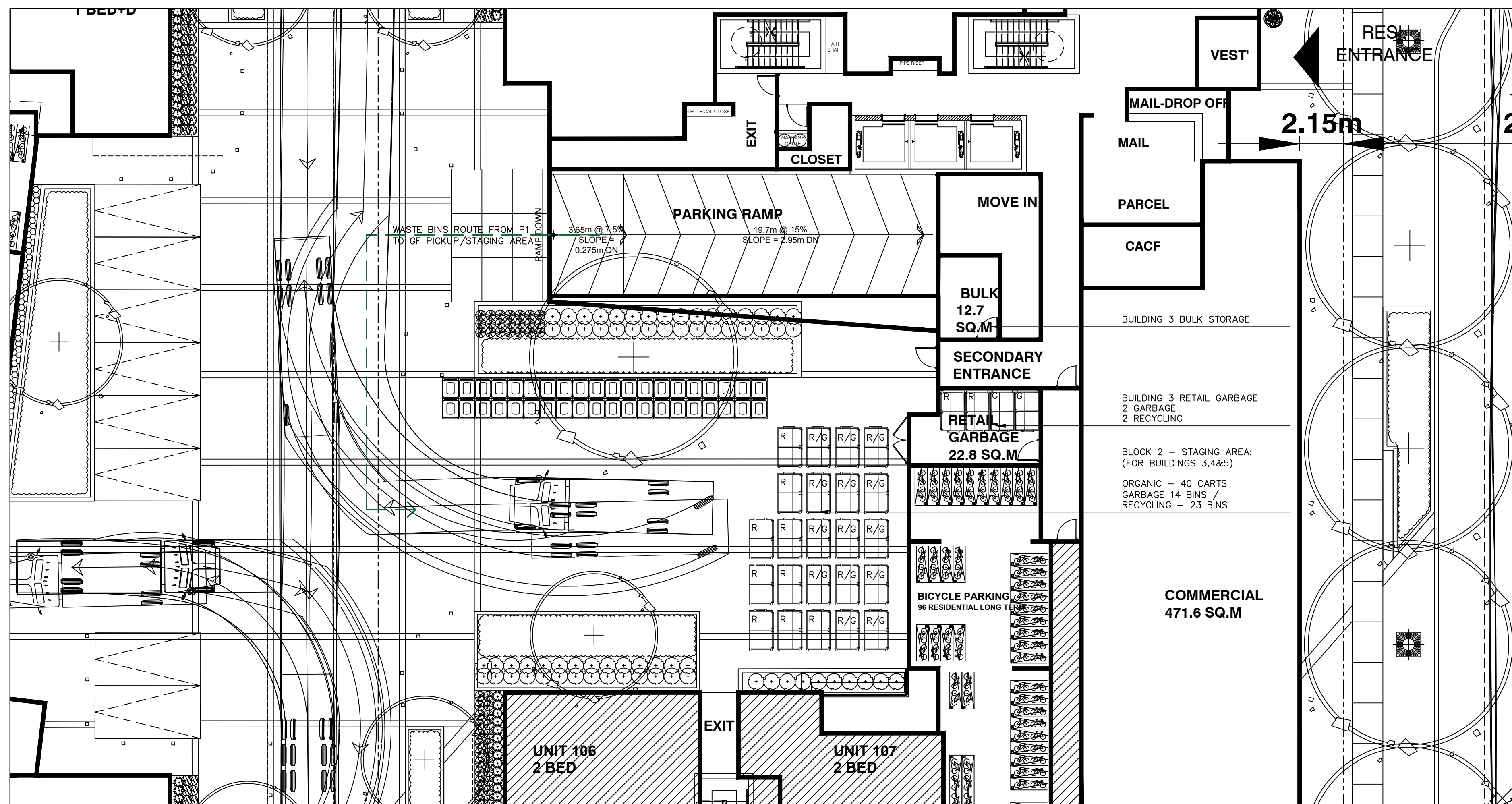
-ILLUSTRATED VEHICLE MOVEMENT DIAGRAM IS  
TAKEN FROM TRAFFIC REPORT. REFER ALSO TO  
TRAFFIC REPORT.

-REFER TO SITE SERVICING AND GRADING PLAN  
FOR DETAILED GRADING.

-REFER TO LANDSCAPE PLAN FOR PLANTING  
AND PAVING LOCATION, MATERIALS AND  
DETAILS.

-TWO CHUTES EQUIPPED. ONE C/W BI-SORTER FOR GARBAGE (G) AND COMPOST (C). OTHER CHUTE FOR RECYCLING (R). GARBAGE STREAM ATTACHED TO COMPACTOR

### Figure 3



|                                               |       |               |
|-----------------------------------------------|-------|---------------|
| BUILDING 3<br>266 (UNITS)                     |       |               |
| MINIMUM NUMBER OF BINS REQUIRED – RESIDENTIAL | VALUE | UNIT          |
| GARBAGE                                       | 4     | 3 CU. YD. BIN |
| RECYCLING                                     | 6     | 3 CU. YD. BIN |
| ORGANIC                                       | 11    | 95 GAL. CART  |
| TOTAL BIN/CART FOOTPRINT AREA                 |       | 51.8 SQ.M     |

|                                               |       |                  |
|-----------------------------------------------|-------|------------------|
| BUILDING 4<br>341 (UNITS)                     |       |                  |
| MINIMUM NUMBER OF BINS REQUIRED – RESIDENTIAL | VALUE | UNIT             |
| GARBAGE                                       | 5     | 3 CU. YD. BIN(C) |
| RECYCLING                                     | 8     | 3 CU. YD. BIN(C) |
| ORGANIC                                       | 14    | 95 GAL. CART(C)  |
| TOTAL BIN/CART FOOTPRINT AREA                 | 61.0  | SQ.M.            |

|                                               |       |                |
|-----------------------------------------------|-------|----------------|
| BUILDING 5<br>365 (UNITS)                     |       |                |
| MINIMUM NUMBER OF BINS REQUIRED – RESIDENTIAL | VALUE | UNIT           |
| GARBAGE                                       | 5     | 3 CU. YD. BIN/ |
| RECYCLING                                     | 9     | 3 CU. YD. BIN/ |
| ORGANIC                                       | 15    | 95 GAL. CART/  |
| TOTAL BIN/CART FOOTPRINT AREA                 | 61.8  | SQ.M.          |

## NOTES:

- NUMBER OF BINS AND AREAS CALCULATED AS PER HALTON REGION GUIDELINE. (REFER TO WASTE MANAGEMENT PLAN).
- MINIMUM 2.2M WIDE DOUBLE DOOR AS PER HALTON REGION GUIDELINE.
- ALL CLEARANCES TO CLEARANCE OF PRIVATE ROAD MUST BE MINIMUM OF 7.5M AND BE FREE FROM OBSTRUCTIONS SUCH AS OVERHANGS, AWNINGS, UTILITY WIRES, BALCONIES, AND MUST BE KEPT CLEAR OF TREE BRANCHES, ETC.
- ALL PRIVATE ROADS AND SUPPORTED STRUCTURES ALONG THE WASTE COLLECTION ROUTE MUST BE DESIGNED AND CONSTRUCTED TO SUPPORT A MINIMUM OF 35 TONNES (77,000 LBS) OF WASTE (SEE APPENDIX B).
- COLLECTION POINT MUST BE LEVEL (THE CHANGE OF GRADE MUST NOT BE MORE THAN +/- 2%) AND IF APPLICABLE, MUST BE CERTIFIED THAT IT IS LEVEL AND CAPABLE OF SUPPORTING A MINIMUM OF 35 TONNES (THE WEIGHT OF A FULLY LOADED WASTE TRUCK).

|     |                                         |             |
|-----|-----------------------------------------|-------------|
| 05  | RE-ISSUED FOR OPA & ZBA                 | 19 MAR 2026 |
| 04  | RE-ISSUED FOR OPA & ZBA                 | 13 MAR 2026 |
| 03  | ISSUED FOR OPA & ZBA                    | 06 DEC 2024 |
| 02  | ISSUED FOR URBAN DESIGN BRIEF           | 31 OCT 2024 |
| 01  | ISSUED FOR PRE-CONSULTATION MEETING #02 | 05 SEP 2024 |
| NO. | REVISIONS                               | DATE        |

"ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION."

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS ON THE JOB.

**CORE**ARCHITECTS

130 QUEENS QUAY EAST, SUITE 700, WEST TOWER  
TORONTO, ON CANADA M5A 0P6  
T +1 416 343 0400 • F +1 416 343 0401  
INFO@COREARCHITECTS.COM  
WWW.COREARCHITECTS.COM

3056 NEYAGAWA BLVD  
OAKVILLE, ON

neatt:



|               |                    |
|---------------|--------------------|
| Drawn<br>SR   | Scale<br>1:150     |
| Checked<br>CW | Date<br>MARCH 2024 |

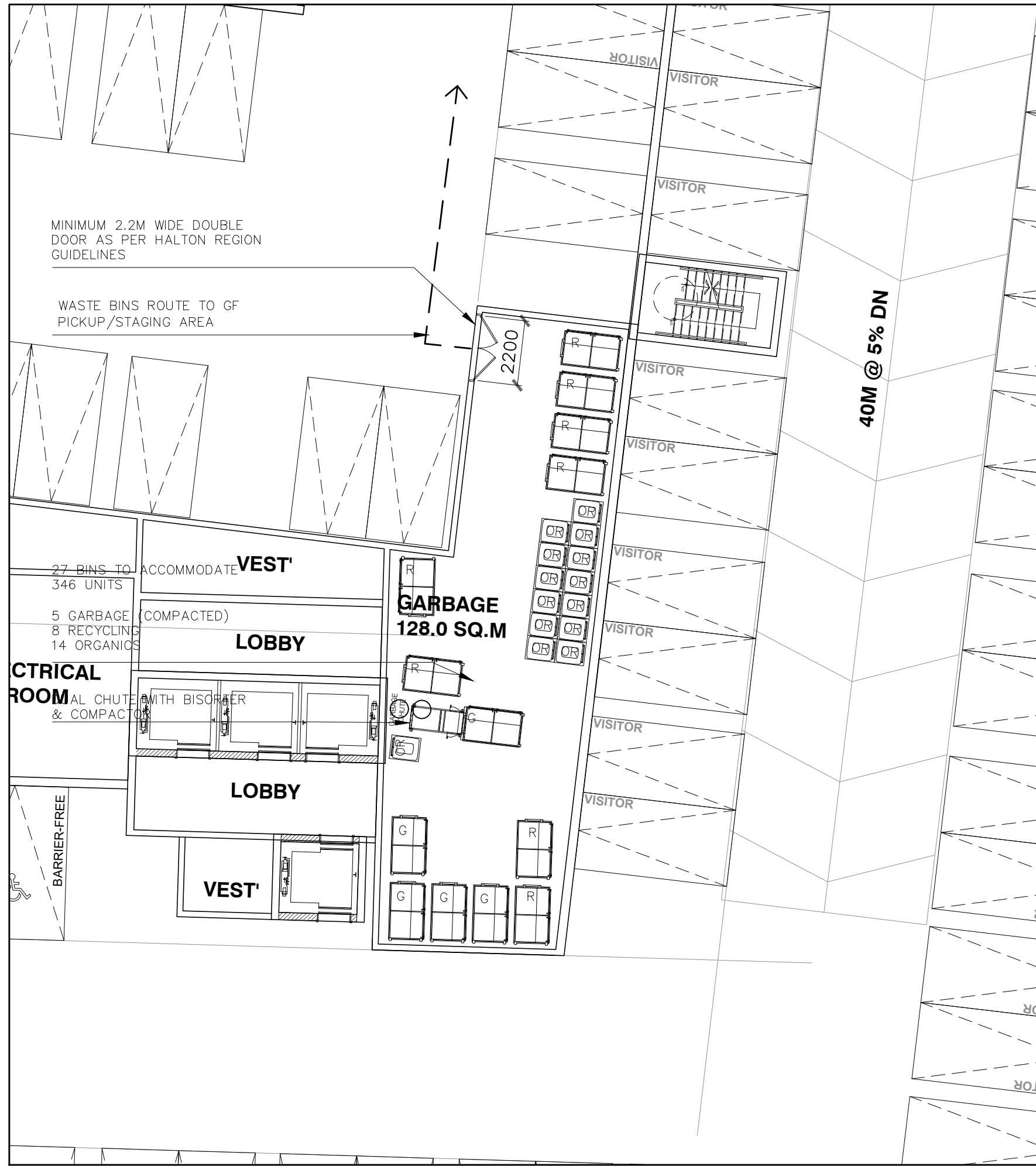
|       |                              |
|-------|------------------------------|
| Title | WASTE MANAGEMENT-<br>BLOCK 2 |
|-------|------------------------------|

|             |        |
|-------------|--------|
| Project No. | 23-109 |
|-------------|--------|

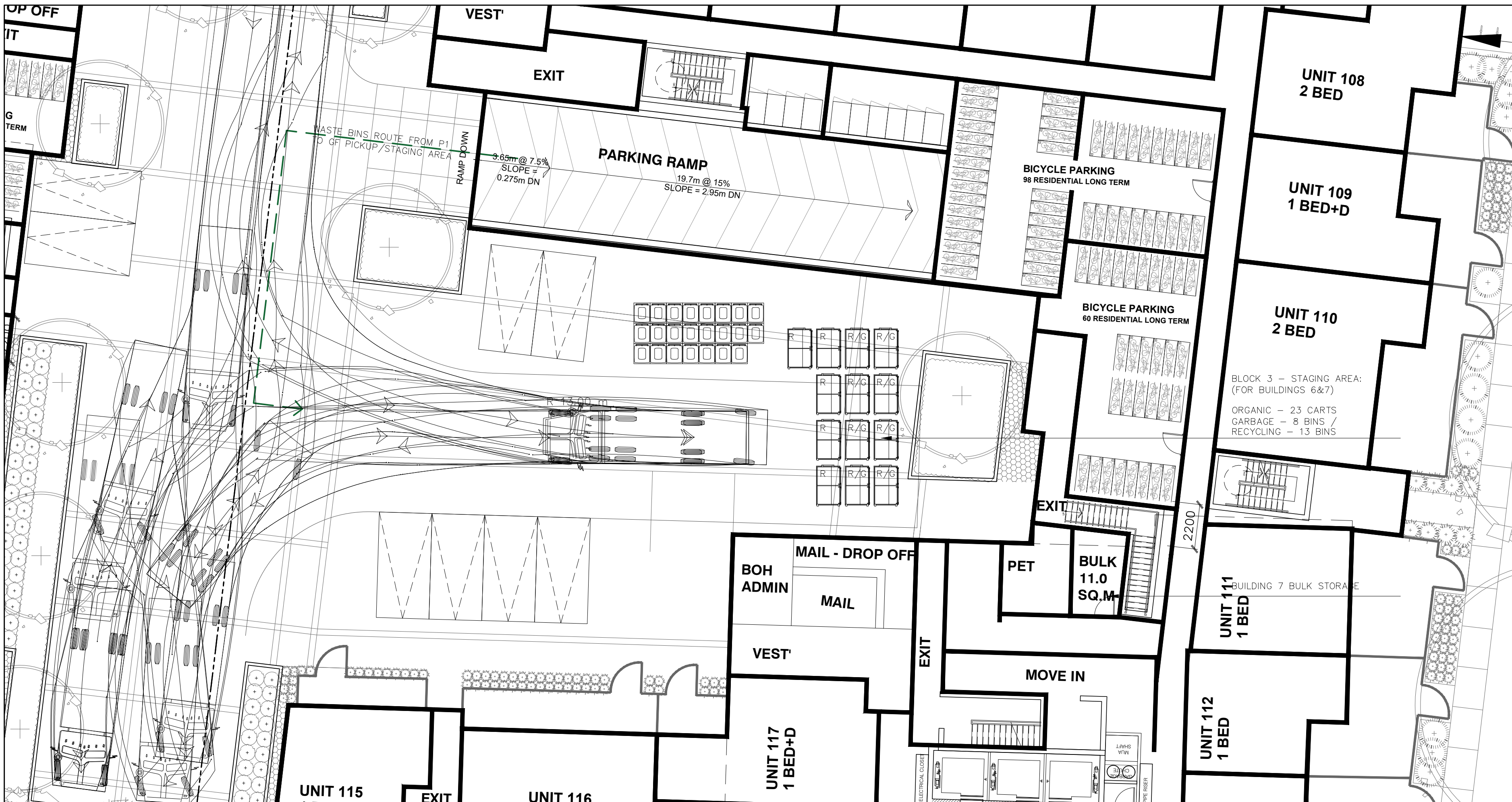
|             |             |
|-------------|-------------|
| Drawing No. | <b>A108</b> |
|-------------|-------------|



3 BUILDING 6 – GARBAGE ROOM @ P1  
A107



2 BUILDING 7 – GARBAGE ROOM @ P1  
A107



1 BLOCK 3 – LOADING AREA  
A107

## LEGEND

### NOTES:

- OVERHEAD CLEARANCE THROUGHOUT THE PRIVATE ROAD MUST BE A MINIMUM OF 7.5 M AND BE FREE FROM OBSTRUCTIONS SUCH AS OVERHANGS, AWNINGS, UTILITY WIRES, BALCONIES, AND MUST BE KEPT CLEAR OF TREE BRANCHES, ETC.
- ALL PRIVATE ROADS AND SUPPORTED STRUCTURES ALONG THE WASTE COLLECTION ROUTE MUST BE DESIGNED AND CONSTRUCTED TO SUPPORT A MINIMUM OF 35 TONNES (THE WEIGHT OF A FULLY LOADED WASTE TRUCK). THE REGION WILL RECEIVE A LETTER, CERTIFIED BY AN ONTARIO PROFESSIONAL ENGINEER, IN ADVANCE OF ANY INITIAL WASTE COLLECTION, INDICATING THAT THE SUPPORTED STRUCTURE CAN SUPPORT A FULLY LOADED WASTE TRUCK.
- THE COLLECTION POINT MUST BE LEVEL (THE CHANGE OF GRADE MUST BE LABELLED ON THE SITE PLAN AND NOT BE MORE THAN +/- 2%)
- A TRAINED ON-SITE STAFF MEMBER TO BE AVAILABLE TO MANEUVER WASTE BINS FOR CITY COLLECTION AT THE LOADING AREA AND ALSO ACT AS A FLAGMAN WHEN TRUCK IS PARKING AND REVERSING.
- RETAIL MANAGEMENT MUST ARRANGE FOR THEIR COLLECTION DAYS TO BE SCHEDULED ON OPPOSITE DAYS FROM THOSE OF THE RESIDENTIAL COLLECTION DAYS.
- RETAIL / COMMERCIAL BINS WILL BE LABELED SEPARATELY, AND MUST BE CLEARLY LABELED.
- ILLUSTRATED VEHICLE MOVEMENT DIAGRAM IS TAKEN FROM TRAFFIC REPORT. REFER ALSO TO TRAFFIC REPORT.
- REFER TO SITE SERVICING AND GRADING PLAN FOR DETAILED GRADING.
- REFER TO LANDSCAPE PLAN FOR PLANTING AND PAVING LOCATION, MATERIALS AND DETAILS.
- TWO CHUTES EQUIPPED. ONE C/W BI-SORTER FOR GARBAGE (G) AND COMPOST (C). OTHER CHUTE FOR RECYCLING (R). GARBAGE STREAM ATTACHED TO COMPACTOR

# Figure 4

| BUILDING 6<br>216 (UNITS)                     |       |                  |
|-----------------------------------------------|-------|------------------|
| MINIMUM NUMBER OF BINS REQUIRED – RESIDENTIAL | VALUE | UNIT             |
| GARBAGE                                       | 3     | 3 CU. YD. BIN(S) |
| RECYCLING                                     | 5     | 3 CU. YD. BIN(S) |
| ORGANIC                                       | 9     | 95 GAL. CART(S)  |
| TOTAL BIN/CART FOOTPRINT AREA                 |       | 45.6 SQ.M        |

| BUILDING 7<br>346 (UNITS)                     |       |                  |
|-----------------------------------------------|-------|------------------|
| MINIMUM NUMBER OF BINS REQUIRED – RESIDENTIAL | VALUE | UNIT             |
| GARBAGE                                       | 5     | 3 CU. YD. BIN(S) |
| RECYCLING                                     | 8     | 3 CU. YD. BIN(S) |
| ORGANIC                                       | 14    | 95 GAL. CART(S)  |
| TOTAL BIN/CART FOOTPRINT AREA                 |       | 61 SQ.M          |

### NOTES:

- NUMBER OF BINS AND AREAS CALCULATED AS PER HALTON REGION GUIDELINE. (REFER TO WASTE MANAGEMENT PLAN)
- MINIMUM 2.2M WIDE DOUBLE DOOR AS PER HALTON REGION GUIDELINE
- OVERHEAD CLEARANCE THROUGHOUT THE PRIVATE ROAD MUST BE MINIMUM OF 7.5M AND BE FREE FROM OBSTRUCTIONS SUCH AS OVERHANGS, AWNINGS, UTILITY WIRES, BALCONIES, AND MUST BE KEPT CLEAR OF TREE BRANCHES, ETC.
- ALL PRIVATE ROADS AND SUPPORTED STRUCTURES ALONG THE WASTE COLLECTION ROUTE MUST BE DESIGNED AND CONSTRUCTED TO SUPPORT MINIMUM OF 35 TONNES (THE WEIGHT OF A FULLY LOADED WASTE TRUCK).
- COLLECTION POINT MUST BE LEVEL (THE 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).

| D4  | RE-ISSUED FOR OPA & ZBA                 | 13 MAR 2026 |
|-----|-----------------------------------------|-------------|
| D3  | ISSUED FOR OPA & ZBA                    | 06 DEC 2024 |
| D2  | ISSUED FOR URBAN DESIGN BRIEF           | 31 OCT 2024 |
| D1  | ISSUED FOR PRE-CONSULTATION MEETING #02 | 05 SEP 2024 |
| NO. | REVISIONS                               | DATE        |

\*ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.\*

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS ON THE JOB.

**COREARCHITECTS**  
180 QUEENS QUAY EAST, SUITE 100, WEST TOWER  
TORONTO, ON CANADA M5A 0P6  
T +1 416 343 0400 • F +1 416 343 0401  
INFO@COREARCHITECTS.COM  
WWW.COREARCHITECTS.COM

3056 NEYAGAWA BLVD  
OAKVILLE, ON

neatt



|               |                    |
|---------------|--------------------|
| Drawn<br>SR   | Scale<br>1:150     |
| Checked<br>CW | Date<br>MARCH 2024 |

Title  
WASTE MANAGEMENT-  
BLOCK 3

|                       |                            |
|-----------------------|----------------------------|
| Project No.<br>23-109 | Drawing No.<br><b>A109</b> |
|-----------------------|----------------------------|

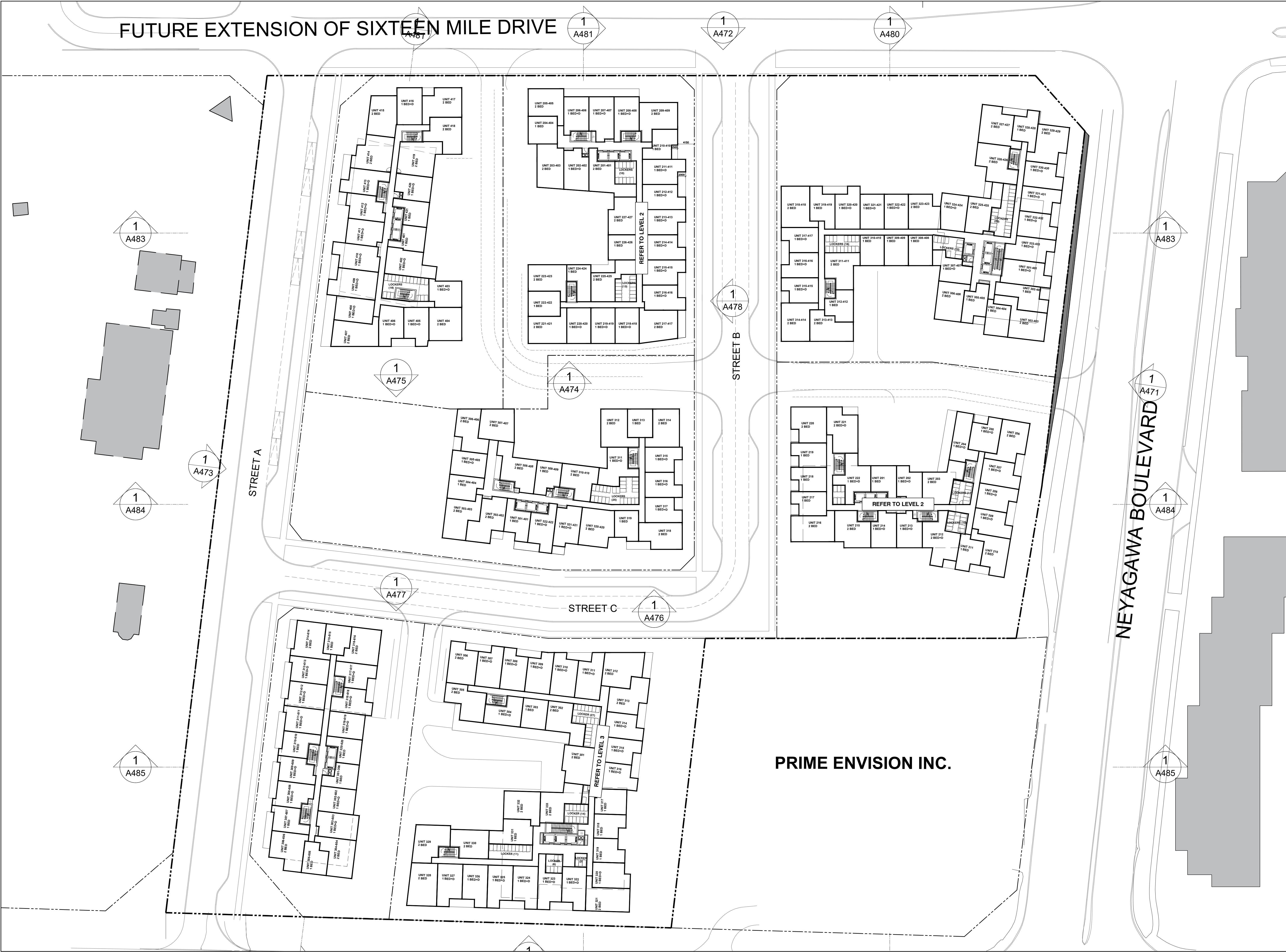


Figure 5

| 04                                                                                                                                                                                                                                                                           | RE-ISSUED FOR OPA & ZBA       | 13 MAR 2026 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------|
| 03                                                                                                                                                                                                                                                                           | ISSUED FOR OPA & ZBA          | 06 DEC 2024 |
| 02                                                                                                                                                                                                                                                                           | ISSUED FOR URBAN DESIGN BRIEF | 31 OCT 2024 |
| 01                                                                                                                                                                                                                                                                           | ISSUED FOR PRE-CONSULTATION   | 05 SEP 2024 |
| MEETING #02                                                                                                                                                                                                                                                                  |                               |             |
| NO.                                                                                                                                                                                                                                                                          | REVISIONS                     | DATE        |
| *ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.* |                               |             |
| CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS ON THE JOB.                                                                                                                                                                                                                  |                               |             |

**COREARCHITECTS**  
180 QUEENS QUAY EAST, SUITE 700, WEST TOWER  
TORONTO, ON CANADA M5A 0P6  
T +1 416 343 0400 • F +1 416 343 0401  
INFO@COREARCHITECTS.COM  
WWW.COREARCHITECTS.COM

3056 NEYAGAWA BLVD  
OAKVILLE, ON

neatt



|                  |                    |
|------------------|--------------------|
| Drawn<br>SR      | Scale<br>1:400     |
| Checked<br>CW    | Date<br>MARCH 2024 |
| Title<br>LEVEL 4 |                    |

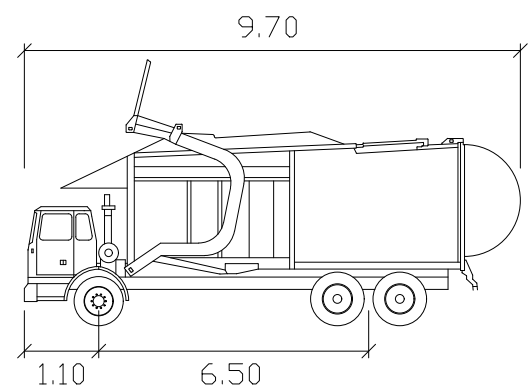


GHD Ltd.  
100 Milverton Drive, Suite 404  
Mississauga, Ontario L5R 4H1 Canada  
T 1 905 712 0510 F 1 905 712 0515

Conditions of Use  
This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of GHD. This document may only be used by GHD's client (and any other person who GHD has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.



Figure 6



Halton-Front-End  
meters

Width : 2.70  
Track : 2.70  
Lock to Lock Time : 6.0  
Steering Angle : 30.0

|   |                   |     |     |          |
|---|-------------------|-----|-----|----------|
| 2 | Second Submission | W.M | W.M | 3/17/26  |
| 1 | First Submission  | W.M | W.M | 11/21/24 |

| No. | Issue | Checked | Approved | Date |
|-----|-------|---------|----------|------|
|-----|-------|---------|----------|------|

Author RA Designer RA

Drafting W.M Design Check W.M

Project Manager W.M Project Director W.M

Client  
**NEATT (16 MILE CREEK) INC.**

Project  
**3056 NEYAGAWA BOULEVARD**

Date November 21, 2024 Scale NTS

Project No.  
12624194

Title  
**VEHICLE MANEUVERING  
DIAGRAM -  
WASTE COLLECTION  
(INBOUND)**

Sheet No.  
AT-102



**Conditions of Use**

This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of GHD. This document may only be used by GHD's client (and any other person who GHD has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.



```
Width           : 2.70
Track           : 2.70
Lock to Lock Time 6.0
Steering Angle   : 30.0
```

|                    |      |                     |      |
|--------------------|------|---------------------|------|
| Author             | R.A. | Designer            | R.A. |
| Drafting<br>Check  | W.M. | Design<br>Check     | W.M. |
| Project<br>Manager | W.M. | Project<br>Director | W.M. |

Project  
3056 NEYAGAWA BOULEVARD

|             |          |
|-------------|----------|
| Project No. | 12624194 |
|-------------|----------|

Sheet No.  
T-103

# Attachment 1

## Waste Capacity Calculation

| Residential Waste Storage Room                                             |        |                   |                                                                                                                                                                           |
|----------------------------------------------------------------------------|--------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stats                                                                      | Value  | Unit              | Comments                                                                                                                                                                  |
| Number of Storeys                                                          | 24     | storeys           |                                                                                                                                                                           |
| Dwelling Units on Second Floor and Higher                                  | 371    | units             |                                                                                                                                                                           |
| Bulk Waste Room Space Requirement                                          | 10     | m <sup>2</sup>    | 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)                                                        | 5      | 3 cu. yd. bin(s)  | Compacted garbage, Ref #1, one 3 cu. yd. per 80 units, used with Regions and private collection system                                                                    |
| Recycling                                                                  | 53     | 95 gallon cart(s) | Ref #1, (does not compact), one 95 gal (360L) per 7 units, used with Regions collection system                                                                            |
| Organics                                                                   | 9      | 3 cu. yd. bin(s)  | 606 gallon = 3 cu. yd.                                                                                                                                                    |
|                                                                            | 15     | 95 gallon cart(s) | Ref #1, (does not compact), one 95 gal (360L) per 25 units, used with Regions collection system                                                                           |
|                                                                            | 3      | 3 cu. yd. bin(s)  | 606 gallon = 3 cu. yd.                                                                                                                                                    |
| Bin/Cart Footprint                                                         |        |                   |                                                                                                                                                                           |
| 95 Gallon Cart                                                             | 0.8    | m <sup>2</sup>    | Ref #1, 0.8 m (W) X 1 m (D), may slightly differ from various manufactures                                                                                                |
| 3 Cubic Yard Bin                                                           | 2.3    | m <sup>2</sup>    | Ref #1, 2.03 m (W) X 1.12 m (D), may slightly differ from various manufactures                                                                                            |
| 4 Cubic Yard Bin                                                           | 2.8    | m <sup>2</sup>    | 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)                                                        | 11.4   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Recycling                                                                  | 20.5   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Organics                                                                   | 12.0   | m <sup>2</sup>    | carts                                                                                                                                                                     |
| Compactor Layout with Bins                                                 | 18     | m <sup>2</sup>    | 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        | 64.1   | m <sup>2</sup>    | (Estimate) Bulk waste room <b>not</b> included                                                                                                                            |
| Total Footprint Required (Scenario B - bins ONLY - Private Collection)     |        |                   |                                                                                                                                                                           |
| Garbage (compacted)                                                        | 11.4   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Recycling                                                                  | 20.5   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Organics                                                                   | 6.8    | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Compactor Layout with Bins                                                 | 18     | m <sup>2</sup>    | This may vary by model/ company, 4.5 m (W) X 4 m (L)                                                                                                                      |
| Total Bin/Cart Footprint Required in Residential Waste Storage Room        | 56.7   | m <sup>2</sup>    | (Estimate), this footprint does not include spacing for alleyway or other movement. Bulk waste room <b>not</b> included                                                   |

## References

1. Halton Region. (2014). Development Design Guidelines for Source Separation of Solid Waste. Halton Region. Retrieved from <https://www.halton.ca/Repository/Development-Design-Guidelines-for-Source-Separation>
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](https://www.richmond.ca/__shared/assets/Waste_Management_Design_Guidelines48945.pdf)

| Residential Waste Storage Room                                             |        |                   |                                                                                                                                                                           |
|----------------------------------------------------------------------------|--------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stats                                                                      | Value  | Unit              | Comments                                                                                                                                                                  |
| Number of Storeys                                                          | 20     | storeys           |                                                                                                                                                                           |
| Dwelling Units on Second Floor and Higher                                  | 274    | units             |                                                                                                                                                                           |
| Bulk Waste Room Space Requirement                                          | 10     | m <sup>2</sup>    | 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)                                                        | 4      | 3 cu. yd. bin(s)  | Compacted garbage, Ref #1, one 3 cu. yd. per 80 units, used with Regions and private collection system                                                                    |
| Recycling                                                                  | 40     | 95 gallon cart(s) | Ref #1, (does not compact), one 95 gal (360L) per 7 units, used with Regions collection system                                                                            |
| Organics                                                                   | 7      | 3 cu. yd. bin(s)  | 606 gallon = 3 cu. yd.                                                                                                                                                    |
|                                                                            | 11     | 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    | m <sup>2</sup>    | Ref #1, 0.8 m (W) X 1 m (D), may slightly differ from various manufactures                                                                                                |
| 3 Cubic Yard Bin                                                           | 2.3    | m <sup>2</sup>    | Ref #1, 2.03 m (W) X 1.12 m (D), may slightly differ from various manufactures                                                                                            |
| 4 Cubic Yard Bin                                                           | 2.8    | m <sup>2</sup>    | 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)                                                        | 9.1    | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Recycling                                                                  | 15.9   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Organics                                                                   | 8.8    | m <sup>2</sup>    | carts                                                                                                                                                                     |
| Compactor Layout with Bins                                                 | 18     | m <sup>2</sup>    | 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        | 54.1   | m <sup>2</sup>    | (Estimate) Bulk waste room <b>not</b> included                                                                                                                            |
| Total Footprint Required (Scenario B - bins ONLY - Private Collection)     |        |                   |                                                                                                                                                                           |
| Garbage (compacted)                                                        | 9.1    | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Recycling                                                                  | 15.9   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Organics                                                                   | 4.5    | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Compactor Layout with Bins                                                 | 18     | m <sup>2</sup>    | This may vary by model/ company, 4.5 m (W) X 4 m (L)                                                                                                                      |
| Total Bin/Cart Footprint Required in Residential Waste Storage Room        | 47.6   | m <sup>2</sup>    | (Estimate), this footprint does not include spacing for alleyway or other movement. Bulk waste room <b>not</b> included                                                   |

#### References

1. Halton Region. (2014). Development Design Guidelines for Source Separation of Solid Waste. Halton Region. Retrieved from <https://www.halton.ca/Repository/Development-Design-Guidelines-for-Source-Separation>
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](https://www.richmond.ca/_shared/assets/Waste_Management_Design_Guidelines48945.pdf)

| Residential Waste Storage Room                                             |        |                   |                                                                                                                                                                           |
|----------------------------------------------------------------------------|--------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stats                                                                      | Value  | Unit              | Comments                                                                                                                                                                  |
| Number of Storeys                                                          | 18     | storeys           |                                                                                                                                                                           |
| Dwelling Units on Second Floor and Higher                                  | 266    | units             |                                                                                                                                                                           |
| Bulk Waste Room Space Requirement                                          | 10     | m <sup>2</sup>    | 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)                                                        | 4      | 3 cu. yd. bin(s)  | Compacted garbage, Ref #1, one 3 cu. yd. per 80 units, used with Regions and private collection system                                                                    |
| Recycling                                                                  | 38     | 95 gallon cart(s) | Ref #1, (does not compact), one 95 gal (360L) per 7 units, used with Regions collection system                                                                            |
| Organics                                                                   | 6      | 3 cu. yd. bin(s)  | 606 gallon = 3 cu. yd.                                                                                                                                                    |
|                                                                            | 11     | 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    | m <sup>2</sup>    | Ref #1, 0.8 m (W) X 1 m (D), may slightly differ from various manufactures                                                                                                |
| 3 Cubic Yard Bin                                                           | 2.3    | m <sup>2</sup>    | Ref #1, 2.03 m (W) X 1.12 m (D), may slightly differ from various manufactures                                                                                            |
| 4 Cubic Yard Bin                                                           | 2.8    | m <sup>2</sup>    | 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)                                                        | 9.1    | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Recycling                                                                  | 13.6   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Organics                                                                   | 8.8    | m <sup>2</sup>    | carts                                                                                                                                                                     |
| Compactor Layout with Bins                                                 | 18     | m <sup>2</sup>    | 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        | 51.8   | m <sup>2</sup>    | (Estimate) Bulk waste room <b>not</b> included                                                                                                                            |
| Total Footprint Required (Scenario B - bins ONLY - Private Collection)     |        |                   |                                                                                                                                                                           |
| Garbage (compacted)                                                        | 9.1    | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Recycling                                                                  | 13.6   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Organics                                                                   | 4.5    | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Compactor Layout with Bins                                                 | 18     | m <sup>2</sup>    | This may vary by model/ company, 4.5 m (W) X 4 m (L)                                                                                                                      |
| Total Bin/Cart Footprint Required in Residential Waste Storage Room        | 45.3   | m <sup>2</sup>    | (Estimate), this footprint does not include spacing for alleyway or other movement. Bulk waste room <b>not</b> included                                                   |

## References

1. Halton Region. (2014). Development Design Guidelines for Source Separation 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](https://www.richmond.ca/_shared/assets/Waste_Management_Design_Guidelines48945.pdf)

| Residential Waste Storage Room                                             |        |                   |                                                                                                                                                                           |
|----------------------------------------------------------------------------|--------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stats                                                                      | Value  | Unit              | Comments                                                                                                                                                                  |
| Number of Storeys                                                          | 24     | storeys           |                                                                                                                                                                           |
| Dwelling Units on Second Floor and Higher                                  | 340    | units             |                                                                                                                                                                           |
| Bulk Waste Room Space Requirement                                          | 10     | m <sup>2</sup>    | 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)                                                        | 5      | 3 cu. yd. bin(s)  | Compacted garbage, Ref #1, one 3 cu. yd. per 80 units, used with Regions and private collection system                                                                    |
| Recycling                                                                  | 49     | 95 gallon cart(s) | Ref #1, (does not compact), one 95 gal (360L) per 7 units, used with Regions collection system                                                                            |
| Organics                                                                   | 8      | 3 cu. yd. bin(s)  | 606 gallon = 3 cu. yd.                                                                                                                                                    |
|                                                                            | 14     | 95 gallon cart(s) | Ref #1, (does not compact), one 95 gal (360L) per 25 units, used with Regions collection system                                                                           |
|                                                                            | 3      | 3 cu. yd. bin(s)  | 606 gallon = 3 cu. yd.                                                                                                                                                    |
| Bin/Cart Footprint                                                         |        |                   |                                                                                                                                                                           |
| 95 Gallon Cart                                                             | 0.8    | m <sup>2</sup>    | Ref #1, 0.8 m (W) X 1 m (D), may slightly differ from various manufactures                                                                                                |
| 3 Cubic Yard Bin                                                           | 2.3    | m <sup>2</sup>    | Ref #1, 2.03 m (W) X 1.12 m (D), may slightly differ from various manufactures                                                                                            |
| 4 Cubic Yard Bin                                                           | 2.8    | m <sup>2</sup>    | 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)                                                        | 11.4   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Recycling                                                                  | 18.2   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Organics                                                                   | 11.2   | m <sup>2</sup>    | carts                                                                                                                                                                     |
| Compactor Layout with Bins                                                 | 18     | m <sup>2</sup>    | 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        | 61.0   | m <sup>2</sup>    | (Estimate) Bulk waste room <b>not</b> included                                                                                                                            |
| Total Footprint Required (Scenario B - bins ONLY - Private Collection)     |        |                   |                                                                                                                                                                           |
| Garbage (compacted)                                                        | 11.4   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Recycling                                                                  | 18.2   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Organics                                                                   | 6.8    | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Compactor Layout with Bins                                                 | 18     | m <sup>2</sup>    | This may vary by model/ company, 4.5 m (W) X 4 m (L)                                                                                                                      |
| Total Bin/Cart Footprint Required in Residential Waste Storage Room        | 54.4   | m <sup>2</sup>    | (Estimate), this footprint does not include spacing for alleyway or other movement. Bulk waste room <b>not</b> included                                                   |

## References

1. Halton Region. (2014). Development Design Guidelines for Source Separation 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](https://www.richmond.ca/_shared/assets/Waste_Management_Design_Guidelines48945.pdf)

| Residential Waste Storage Room                                             |        |                   |                                                                                                                                                                           |
|----------------------------------------------------------------------------|--------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stats                                                                      | Value  | Unit              | Comments                                                                                                                                                                  |
| Number of Storeys                                                          | 26     | storeys           |                                                                                                                                                                           |
| Dwelling Units on Second Floor and Higher                                  | 365    | units             |                                                                                                                                                                           |
| Bulk Waste Room Space Requirement                                          | 10     | m <sup>2</sup>    | 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)                                                        | 5      | 3 cu. yd. bin(s)  | Compacted garbage, Ref #1, one 3 cu. yd. per 80 units, used with Regions and private collection system                                                                    |
| Recycling                                                                  | 53     | 95 gallon cart(s) | Ref #1, (does not compact), one 95 gal (360L) per 7 units, used with Regions collection system                                                                            |
|                                                                            | 9      | 3 cu. yd. bin(s)  | 606 gallon = 3 cu. yd.                                                                                                                                                    |
| Organics                                                                   | 15     | 95 gallon cart(s) | Ref #1, (does not compact), one 95 gal (360L) per 25 units, used with Regions collection system                                                                           |
|                                                                            | 3      | 3 cu. yd. bin(s)  | 606 gallon = 3 cu. yd.                                                                                                                                                    |
| Bin/Cart Footprint                                                         |        |                   |                                                                                                                                                                           |
| 95 Gallon Cart                                                             | 0.8    | m <sup>2</sup>    | Ref #1, 0.8 m (W) X 1 m (D), may slightly differ from various manufactures                                                                                                |
| 3 Cubic Yard Bin                                                           | 2.3    | m <sup>2</sup>    | Ref #1, 2.03 m (W) X 1.12 m (D), may slightly differ from various manufactures                                                                                            |
| 4 Cubic Yard Bin                                                           | 2.8    | m <sup>2</sup>    | 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)                                                        | 11.4   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Recycling                                                                  | 20.5   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Organics                                                                   | 12.0   | m <sup>2</sup>    | carts                                                                                                                                                                     |
| Compactor Layout with Bins                                                 | 18     | m <sup>2</sup>    | This may vary by model/ company, 4.5 m (W) X 4 m (L)                                                                                                                      |
| Total Bin/Cart Footprint Required in Residential Waste Storage Room        | 61.8   | m <sup>2</sup>    | (Estimate) Bulk waste room <b>not</b> included                                                                                                                            |
| Total Footprint Required (Scenario B - bins ONLY - Private Collection)     |        |                   |                                                                                                                                                                           |
| Garbage (compacted)                                                        | 11.4   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Recycling                                                                  | 20.5   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Organics                                                                   | 6.8    | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Compactor Layout with Bins                                                 | 18     | m <sup>2</sup>    | This may vary by model/ company, 4.5 m (W) X 4 m (L)                                                                                                                      |
| Total Bin/Cart Footprint Required in Residential Waste Storage Room        | 56.7   | m <sup>2</sup>    | (Estimate), this footprint does not include spacing for alleyway or other movement. Bulk waste room <b>not</b> included                                                   |

## References

1. Halton Region. (2014). Development Design Guidelines for Source Separation of Solid Waste. Halton Region. Retrieved from <https://www.halton.ca/Repository/Development-Design-Guidelines-for-Source-Separation>
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](https://www.richmond.ca/_shared/assets/Waste_Management_Design_Guidelines48945.pdf)

| Residential Waste Storage Room                                             |        |                   |                                                                                                                                                                           |
|----------------------------------------------------------------------------|--------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stats                                                                      | Value  | Unit              | Comments                                                                                                                                                                  |
| Number of Storeys                                                          | 15     | storeys           |                                                                                                                                                                           |
| Dwelling Units on Second Floor and Higher                                  | 216    | units             |                                                                                                                                                                           |
| Bulk Waste Room Space Requirement                                          | 10     | m <sup>2</sup>    | 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                                                                  | 31     | 95 gallon cart(s) | Ref #1, (does not compact), one 95 gal (360L) per 7 units, used with Regions collection system                                                                            |
| Organics                                                                   | 5      | 3 cu. yd. bin(s)  | 606 gallon = 3 cu. yd.                                                                                                                                                    |
|                                                                            | 9      | 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    | m <sup>2</sup>    | Ref #1, 0.8 m (W) X 1 m (D), may slightly differ from various manufactures                                                                                                |
| 3 Cubic Yard Bin                                                           | 2.3    | m <sup>2</sup>    | Ref #1, 2.03 m (W) X 1.12 m (D), may slightly differ from various manufactures                                                                                            |
| 4 Cubic Yard Bin                                                           | 2.8    | m <sup>2</sup>    | 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    | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Recycling                                                                  | 11.4   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Organics                                                                   | 7.2    | m <sup>2</sup>    | carts                                                                                                                                                                     |
| Compactor Layout with Bins                                                 | 18     | m <sup>2</sup>    | 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        | 45.6   | m <sup>2</sup>    | (Estimate) Bulk waste room <b>not</b> included                                                                                                                            |
| Total Footprint Required (Scenario B - bins ONLY - Private Collection)     |        |                   |                                                                                                                                                                           |
| Garbage (compacted)                                                        | 6.8    | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Recycling                                                                  | 11.4   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Organics                                                                   | 4.5    | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Compactor Layout with Bins                                                 | 18     | m <sup>2</sup>    | This may vary by model/ company, 4.5 m (W) X 4 m (L)                                                                                                                      |
| Total Bin/Cart Footprint Required in Residential Waste Storage Room        | 40.7   | m <sup>2</sup>    | (Estimate), this footprint does not include spacing for alleyway or other movement. Bulk waste room <b>not</b> included                                                   |

## References

1. Halton Region. (2014). Development Design Guidelines for Source Separation 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](https://www.richmond.ca/_shared/assets/Waste_Management_Design_Guidelines48945.pdf)

| Residential Waste Storage Room                                             |        |                   |                                                                                                                                                                           |
|----------------------------------------------------------------------------|--------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stats                                                                      | Value  | Unit              | Comments                                                                                                                                                                  |
| Number of Storeys                                                          | 20     | storeys           |                                                                                                                                                                           |
| Dwelling Units on Second Floor and Higher                                  | 346    | units             |                                                                                                                                                                           |
| Bulk Waste Room Space Requirement                                          | 10     | m <sup>2</sup>    | 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)                                                        | 5      | 3 cu. yd. bin(s)  | Compacted garbage, Ref #1, one 3 cu. yd. per 80 units, used with Regions and private collection system                                                                    |
| Recycling                                                                  | 50     | 95 gallon cart(s) | Ref #1, (does not compact), one 95 gal (360L) per 7 units, used with Regions collection system                                                                            |
|                                                                            | 8      | 3 cu. yd. bin(s)  | 606 gallon = 3 cu. yd.                                                                                                                                                    |
| Organics                                                                   | 14     | 95 gallon cart(s) | Ref #1, (does not compact), one 95 gal (360L) per 25 units, used with Regions collection system                                                                           |
|                                                                            | 3      | 3 cu. yd. bin(s)  | 606 gallon = 3 cu. yd.                                                                                                                                                    |
| Bin/Cart Footprint                                                         |        |                   |                                                                                                                                                                           |
| 95 Gallon Cart                                                             | 0.8    | m <sup>2</sup>    | Ref #1, 0.8 m (W) X 1 m (D), may slightly differ from various manufactures                                                                                                |
| 3 Cubic Yard Bin                                                           | 2.3    | m <sup>2</sup>    | Ref #1, 2.03 m (W) X 1.12 m (D), may slightly differ from various manufactures                                                                                            |
| 4 Cubic Yard Bin                                                           | 2.8    | m <sup>2</sup>    | 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)                                                        | 11.4   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Recycling                                                                  | 18.2   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Organics                                                                   | 11.2   | m <sup>2</sup>    | carts                                                                                                                                                                     |
| Compactor Layout with Bins                                                 | 18     | m <sup>2</sup>    | 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        | 61.0   | m <sup>2</sup>    | (Estimate) Bulk waste room <b>not</b> included                                                                                                                            |
| Total Footprint Required (Scenario B - bins ONLY - Private Collection)     |        |                   |                                                                                                                                                                           |
| Garbage (compacted)                                                        | 13.9   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Recycling                                                                  | 18.2   | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Organics                                                                   | 6.8    | m <sup>2</sup>    | bins                                                                                                                                                                      |
| Compactor Layout with Bins                                                 | 18     | m <sup>2</sup>    | This may vary by model/ company, 4.5 m (W) X 4 m (L)                                                                                                                      |
| Total Bin/Cart Footprint Required in Residential Waste Storage Room        | 56.9   | m <sup>2</sup>    | (Estimate), this footprint does not include spacing for alleyway or other movement. Bulk waste room <b>not</b> included                                                   |

#### References

1. Halton Region. (2014). Development Design Guidelines for Source Separation 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](https://www.richmond.ca/_shared/assets/Waste_Management_Design_Guidelines48945.pdf)

**Table 8**  
**Building 1 - Retail**  
**Waste Capacity Calculations**

| Stats                                          | Value   | Unit                  | Comments                                                                                   |
|------------------------------------------------|---------|-----------------------|--------------------------------------------------------------------------------------------|
| Number of Bins Required - Commercial           |         |                       |                                                                                            |
| Retail (non-food) Garbage                      | 0.5     | L/m <sup>2</sup> /day | Ref #1, 50L/100 m <sup>2</sup> floor area/day                                              |
| Retail (non-food) Recycling                    | 0.5     | L/m <sup>2</sup> /day | Ref #1, 50L/100 m <sup>2</sup> floor area/day                                              |
| Commercial Floor Space                         | 1,032   | m <sup>2</sup>        | Total space                                                                                |
| Commercial Garbage Waste Generation Rate       | 516     | L/day                 | Using retail generation numbers                                                            |
| Commercial Recycling Waste Generation Rate     | 516     | L/day                 | Using retail generation numbers                                                            |
| Days between collection                        | 7       | day(s)                | Assuming weekly collection                                                                 |
| Estimated Commercial Garbage Waste Generated   | 3,612.0 | L                     | Retail                                                                                     |
| Estimated Commercial Recycling Waste Generated | 3,612.0 | L                     | Retail                                                                                     |
| Estimated Commercial Garbage Waste Generated   | 954     | gallon                | Converted units, retail, Conversion factor: 3.79L/gallon                                   |
| Estimated Commercial Recycling Waste Generated | 954     | gallon                | Converted units, retail, Conversion factor: 3.79L/gallon                                   |
| Estimated Commercial Garbage Waste Generated   | 4.7     | cu. yd.               | Converted units, retail, Conversion factor: 765L/cubic yard                                |
| Estimated Commercial Recycling Waste Generated | 4.7     | cu. yd.               | Converted units, retail, Conversion factor: 765L/cubic yard                                |
| Number of Bins Required - Commercial           |         |                       | Private Collection                                                                         |
| Garbage                                        | 2       | 3 cu. yd. bin(s)      |                                                                                            |
| Recycling                                      | 2       | 3 cu. yd. bin(s)      |                                                                                            |
|                                                |         |                       | - or -                                                                                     |
| Garbage                                        | 11      | 95 gallon             |                                                                                            |
| Recycling                                      | 11      | 95 gallon             |                                                                                            |
| Bin/Cart Footprint                             |         |                       |                                                                                            |
| 1 Cubic Yard Bin                               | 2.0     | m <sup>2</sup>        | Ref #3, 2.09 m (W) X 0.97 m (D), may slightly differ from various manufactures             |
| 2 Cubic Yard Bin                               | 2.1     | m <sup>2</sup>        | Ref #2, 2.03 m (W) X 1.02 m (D), may slightly differ from various manufactures             |
| 3 Cubic Yard Bin                               | 2.3     | m <sup>2</sup>        | Ref #2, 2.03 m (W) X 1.12 m (D), may slightly differ from various manufactures             |
| 35 Gallon                                      | 0.3     | m <sup>2</sup>        | Ref #4, 120L, .513 m (W) X .584 m (D)                                                      |
| 95 Gallon                                      | 0.6     | m <sup>2</sup>        | Ref #4, 360L, .729 m (W) X .857 m (D)                                                      |
| Footprint Required - Option 1                  |         |                       | Option dependant on private contractor                                                     |
| 3 Cu yd. Garbage                               | 4.5     | m <sup>2</sup>        |                                                                                            |
| 3 Cu yd. Recycling                             | 4.5     | m <sup>2</sup>        |                                                                                            |
| Manoeuvre Factor                               | 9       |                       | Ref #5, this is a consideration to factor in. Allows for manoeuvring and access path ways. |
| Total Footprint Required in Waste Storage Room | 18.1    | m <sup>2</sup>        | (Estimate)                                                                                 |
| Footprint Required - Option 2                  |         |                       | Option dependant on private contractor                                                     |
| 95 g. Garbage                                  | 6.9     | m <sup>2</sup>        |                                                                                            |
| 95 g. Recycling                                | 6.9     | m <sup>2</sup>        |                                                                                            |
| Total Footprint Required in Waste Storage Room | 13.7    | m <sup>2</sup>        | (Estimate)                                                                                 |

#### References

1. City of Melbourne. (2017). Guidelines for Preparing a Waste Management Plan.
2. Halton Region. (2014). Development Design Guidelines for Source Separation 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=CjwKCAiAtK79BRAIEiwA4OskBt3Nx1dm96L2pAH4fgwSIIE\\_lpeR3FDqoTCXmxgmnM\\_uzEvqBvmrhoCOwoQAyD\\_BwE](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=CjwKCAiAtK79BRAIEiwA4OskBt3Nx1dm96L2pAH4fgwSIIE_lpeR3FDqoTCXmxgmnM_uzEvqBvmrhoCOwoQAyD_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](https://www.richmond.ca/_shared/assets/Waste_Management_Design_Guidelines48945.pdf)

**Table 9**  
**Building 3 - Retail**  
**Waste Capacity Calculations**

| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 872     | m²               | Total space                                                                                |
| Commercial Garbage Waste Generation Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 236     | L/day            | Using retail generation numbers                                                            |
| Commercial Recycling Waste Generation Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 236     | L/day            | Using retail generation numbers                                                            |
| Days between collection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7       | day(s)           | Assuming weekly collection                                                                 |
| Estimated Commercial Garbage Waste Generated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1,650.6 | L                | Retail                                                                                     |
| Estimated Commercial Recycling Waste Generated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1,650.6 | L                | Retail                                                                                     |
| Estimated Commercial Garbage Waste Generated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 436     | gallon           | Converted units, retail, Conversion factor: 3.79L/gallon                                   |
| Estimated Commercial Recycling Waste Generated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 436     | gallon           | Converted units, retail, Conversion factor: 3.79L/gallon                                   |
| Estimated Commercial Garbage Waste Generated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2.2     | cu. yd.          | Converted units, retail, Conversion factor: 765L/cubic yard                                |
| Estimated Commercial Recycling Waste Generated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.2     | cu. yd.          | Converted units, retail, Conversion factor: 765L/cubic yard                                |
| Number of Bins Required - Commercial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |                  | Private Collection                                                                         |
| Garbage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2       | 3 cu. yd. bin(s) |                                                                                            |
| Recycling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2       | 3 cu. yd. bin(s) |                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |                  | - or -                                                                                     |
| Garbage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5       | 95 gallon        |                                                                                            |
| Recycling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5       | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 9       |                  | Ref #5, this is a consideration to factor in. Allows for manoeuvring and access path ways. |
| Total Footprint Required in Waste Storage Room                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 18.1    | m²               | (Estimate)                                                                                 |
| Footprint Required - Option 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |                  | Option dependant on private contractor                                                     |
| 95 g. Garbage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3.1     | m²               |                                                                                            |
| 95 g. Recycling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3.1     | m²               |                                                                                            |
| Total Footprint Required in Waste Storage Room                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6.2     | m²               | (Estimate)                                                                                 |
| <b>References</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                  |                                                                                            |
| 1. City of Melbourne. (2017). Guidelines for Preparing a Waste Management Plan.<br>2. Halton Region. (2014). Development Design Guidelines for Source Separation of Solid Waste. Halton Region. Retrieved from <a href="https://www.halton.ca/Repository/Development-Design-Guidelines-for-Source-Separatio">https://www.halton.ca/Repository/Development-Design-Guidelines-for-Source-Separatio</a><br>3. Toter 1 Cubic Yard Front Loading Dumpster W/ Bumpers, Dark Cool Gray - FR010-00125. (n.d.). Retrieved from <a href="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&amp;gclid=CjwKCAiAtK79BRAIEiwA4OskBt3Nx1dm96L2pAH4fgwSIIE_lpeR3FDqoTCXmxgmnM_uzEvqBvmDhoCOwoQAyD_BwE">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&amp;gclid=CjwKCAiAtK79BRAIEiwA4OskBt3Nx1dm96L2pAH4fgwSIIE_lpeR3FDqoTCXmxgmnM_uzEvqBvmDhoCOwoQAyD_BwE</a><br>4. City of Toronto. (2020, October 28). Garbage Bin Sizes & Fees. Retrieved from <a href="https://www.toronto.ca/services-payments/recycling-organics-garbage/houses/garbage-bin-sizes-fees/">https://www.toronto.ca/services-payments/recycling-organics-garbage/houses/garbage-bin-sizes-fees/</a><br>5. City of Richmond. (2018). Commercial and Multi-Family Developments Waste Management Design Guidelines. Retrieved from: <a href="https://www.richmond.ca/_shared/assets/Waste_Management_Design_Guidelines48945.pdf">https://www.richmond.ca/_shared/assets/Waste_Management_Design_Guidelines48945.pdf</a> |         |                  |                                                                                            |