

ATTACHMENT 7

TOWN OF VICTORIA PARK
Received: 15/02/2024

Proposed Mixed Use Development #167 & #169 Bank Street, East Victoria Park

Waste Management Plan

Rev C

Prepared for: The Trustee for the Goldblaze Unit Trust

Date: 6 December 2023

Ref: 300305205

Revision

TOWN OF VICTORIA PARK
Received: 15/02/2024

Revision	Date	Comment	Prepared By	Approved By
Rev A	14 December 2021	For Issue	JD	DH/RJC
Rev B	16 December 2021	For Issue	JD	DH
Rev C	6 December 2023	Final	JD	DH

Stantec Australia Pty Ltd

Ground Floor, 226 Adelaide Terrace, Perth WA 6000

Limitations

© Stantec Australia Pty Ltd 2023. Copyright in the whole and every part of this document belongs to Stantec Australia and may not be used, sold, transferred, copied or reproduced in whole or in part in any manner or form or in or on any media to any person other than by agreement with Stantec Australia. This document is produced by Stantec Australia solely for the benefit and use by The Trustee for the Goldblaze Unit Trust in accordance with the terms of the engagement. Stantec Australia does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by any third party on the content of this document.

CONTENTS

TOWN OF VICTORIA PARK
Received: 15/02/2024

WASTE MANAGEMENT PLAN FOR Proposed Mixed Use Development #167 & #169 Bank Street, East Victoria Park

1.	Introduction	1
1.1	Background	1
1.2	Site location.....	1
1.3	Waste and Recycling Collection Services	2
1.4	Bin Enclosure	3
2.	Waste Generation and Management.....	4
2.1	Waste Streams.....	4
2.2	Waste Streams Estimates.....	4
2.3	Bin Requirement	6
2.4	Bin Enclosure Layout	7
2.5	Transfer of Waste and Recycling.....	8
2.6	Collection of Waste and Recycling	9
3.	Waste Reduction and Management	12
3.1	Provision of Information	12
3.2	Engagement.....	12
3.3	Monitoring and Review	13
4.	Conclusion	14
5.	References.....	15

List of Figures

Figure 1-1	Aerial Image of Site.....	1
Figure 1-2	Ground Floor Plan.....	2
Figure 2-1	Bin Enclosure.....	6
Figure 2-3	Waste Chutes	8
Figure 2-3	Bin Presentation Area	9
Figure 2-4	Swept Path – Waste Collection (Ingress).....	10
Figure 2-5	Swept Path – Waste Collection (Egress)	11

Figure 3-1 Waste Hierarchy 12

List of Tables

Table 1-2 Land Uses 2

Table 2-1 Weekly Waste Generation rates for the development 4

Table 2-2 Weekly Waste Generation for the Development 5

Table 2-3 Compacted Weekly Waste Generation for the development (Residential)..... 5

Table 2-4 Bin Requirements for compacted waste -Residential..... 6

Table 2-5 Bin Requirements for uncompacted waste- Commercial 6

Appendices

- Appendix A. Site Plans
- Appendix B. Waste Calculations
- Appendix C. Waste Equipment

1. Introduction

1.1 Background

Stantec has been commissioned by The Trustee for the Goldblaze Unit Trust (“the Client”) to prepare a Waste Management Plan (WMP) for the proposed mixed-use development (the Development) to be located on Lot 2 & Lot 3 (#167 & #169) Bank Street, East Victoria Park, within the Town of Victoria Park (the Site).

The scope of this WMP is limited to the estimation of general waste, recycling, and food organic and garden organic (FOGO) volumes generated by the Development and includes recommendations for the appropriate collection, storage, handling and transportation of waste and recycling, in accordance with the requirements of the Town of Victoria Park, WALGA’s Multi Dwelling Waste Management Plan Guidelines and WALGA’s Commercial and Industrial Waste Management Plan Guidelines.

Estimations of generated volumes of liquid waste (including cooking and motor oils) are not provided. Specialist contractors will need to be commissioned by the Development operators for the collection and disposal of liquid waste, as necessary.

1.2 Site location

The Development is located on Lot 2 & Lot 3 (#167 & #169) Bank Street, East Victoria Park, within the Town of Victoria Park as illustrated in **Figure 1-1**.

Figure 1-1 Aerial Image of Site



Source: MetroMap (2023)

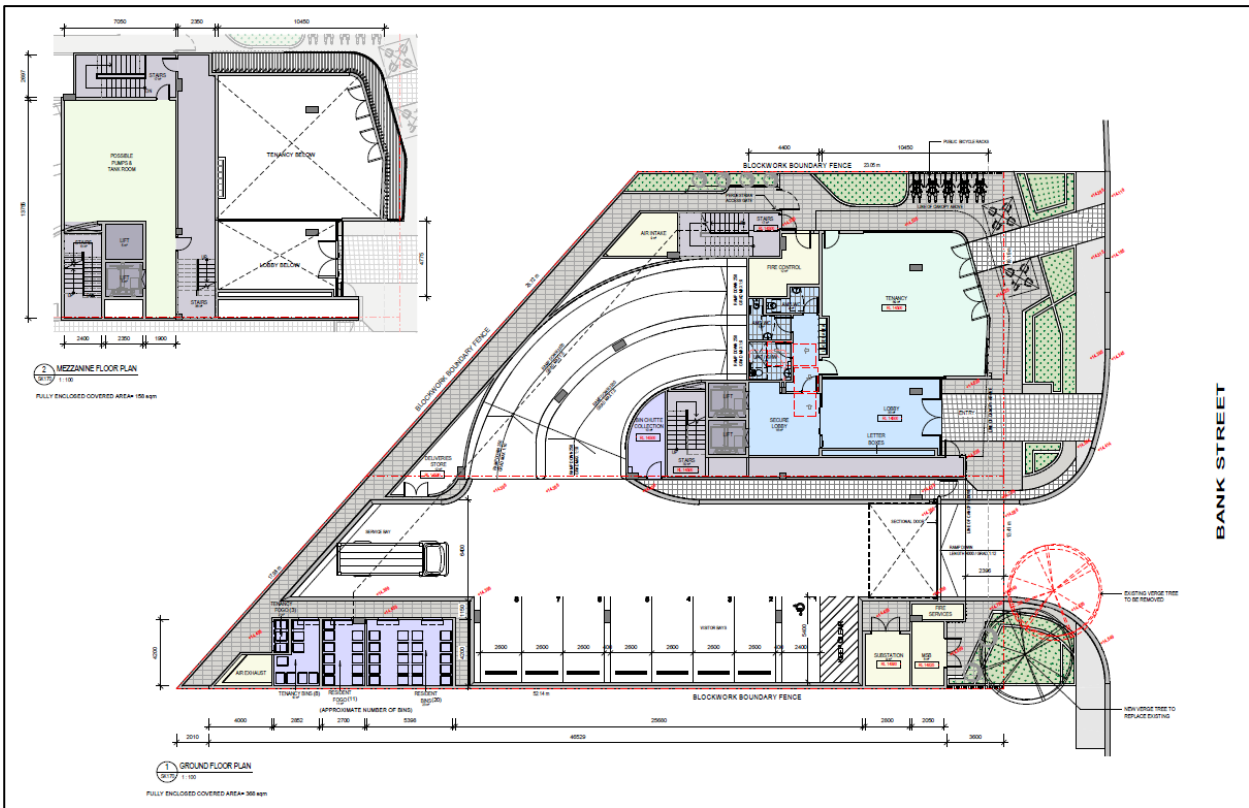
Plans for the proposed development outlines a fifteen-storey building with the majority of its land use dedicated for residential and commercial (restaurant) tenancy on the ground floor. The anticipated usages generating waste from the proposed Development is tabulated in **Table 1-1**.

The Development will front onto Bank Street to the east and is surrounded by residential and mix-use properties. The bin enclosure for the development is proposed to be located on the ground floor of the Site and is accessible through the

proposed crossover from Bank Street as shown in **Figure 1-2**. Architectural plans outlining the use of floor space are provided in **Appendix A**.

Town of Victoria
 Received: 15/02/2024

Figure 1-2 Ground Floor Plan



Source: ryan tsen architects (November 2023)

Table 1-1 Land Uses

Usage	Development Yield
1 Bedroom Apartment (unit)	10 dwellings
2 Bedroom Apartment (unit)	63 dwellings
Commercial (Restaurant)	98 sqm

1.3 Waste and Recycling Collection Services

It is envisaged that the development will initially utilize the waste collection services provided by the Town of Victoria Park. However, in the event that the Town is unable to service the development, a nominated private waste contractor will be appointed to service the waste collection. It is proposed that waste collection of general, FOGO, and recycling waste be twice a week for the residential component. For the proposed commercial tenancies, it is anticipated that general waste will be collected three-times a week, recycling waste twice a week and FOGO waste once a week respectively.

1.4 Bin Enclosure

The Mobile Garbage Bin (MGB) storage for the residential and commercial tenancies will be in separate bin enclosures located on the ground floor. A separate bin enclosure for FOGO waste is also proposed in order to meet the Town of Victoria Park's requirements.

1.4.1 Construction Considerations

The bin enclosures for the Development will be designed with the following considerations:

- The bin enclosures will have concrete slab floor with a graded floor to a waste drain that is connected to sewer. Floors to be even and flat for safe storage of bins.
- Access doors will be self-closing to prevent access to vermin.
- Adequate aisle width for easy manoeuvring of bins.
- No double stacking of rows of bins.
- All wall joins will be sealed to a height of 150 mm for ease of washing.
- Walls are to be painted with washable paint.
- A hose cock will also be included to facilitate washout of bins and washout of the area.
- Drainage of wastewater from washing facilities will drain to main sewers.
- Sufficient lighting for the bin enclosure should be provided by motion detected automatic artificial lighting to facilitate access to the bin enclosure.
- Adequate ventilation will be provided to the bin enclosures to ensure sufficient turnover of the air mass to prevent odour nuisance.
- Appropriate signage to be provided.
- To be designed to not permit stormwater to enter the drain.
- Bins not to be visible from the property boundary or areas trafficable by the public.
- Any external bin store greater than 20m is to be roofed as per Water Authority requirement; and
- Bins are reasonably secured from theft and vandalism.



2. Waste Generation and Management

TOWN OF VICTORIA PARK
Received: 15/02/2024

In order to ensure that the waste from Development is properly managed, it was necessary to estimate the volume of waste that is likely to be generated on the premises. The Town of Victoria Park advised that the waste generation rates outlined in WALGA's Multi Dwelling Waste Management Plan Guidelines and WALGA's Commercial and Industrial Waste Management Plan Guidelines would be applicable for the proposed residential and commercial development.

Using these generation rates as well as the FOGO generation rates advice provided by the Town of Victoria Park, a broad estimation of daily waste generation for the Development has been calculated.

2.1 Waste Streams

2.1.1 General, Recycling and FOGO

Waste and recyclables will be sorted on-site and as close to source as possible. Sorting will rely on appropriate education of residents, tenants and staff in addition to adequate signage for bins located in the bin enclosures. Waste and recycling will be based on the following streams:

- General Waste.
- Co-mingled Recycling, which includes clean aluminium foil and trays, glass bottles and jars, long-life milk and juice cartons, cardboard, plastic containers, tins, and cans.
- Food organics and garden organics (FOGO), which includes food and green waste, uncontaminated wood waste, forestry residues and other biodegradable organic residues. The Town will dictate what can be included in these bins.

2.1.2 Other Streams

Storage, handling and collection of liquid wastes such as cooking oil are not covered in this WMP. The Development operator will need to source and enter into an agreement with an appropriate registered and accredited waste collection contractor for these wastes.

Storage, handling and collection of bulk wastes, such as mattresses and other hard rubbish and electronic waste such as old batteries, are not covered in this WMP. It should be noted that the Town provides verge collections throughout the year for residential and multi-residential properties only. This offered service must be managed by the Facility/Strata Manager who will coordinate with the Town the bulk waste collection for the Site.

2.2 Waste Streams Estimates

2.2.1 Weekly Waste Estimates

A summary of the estimated weekly waste generated for each waste stream by usage is provided in **Table 2-1** and the weekly waste generated by the proposed Development is summarised in **Table 2-2**. Waste estimates were obtained by way of the calculations outlined in **Appendix B**.

Table 2-1 Weekly Waste Generation rates for the development

Type of Premises	Source	General Waste Rate	Co-mingled Recycling Rate	FOGO Rate
1-bedroom dwellings	WALGA	60 L/unit/week	20L/unit/week	20L/unit/week
2-bedroom dwellings	WALGA	120 L/unit/week	40L/unit/week	40L/unit/week
Commercial (Restaurant)	WALGA	561 L/100m2/day	130 L/100m2/day	99 L/100m2/day*

The general waste for the restaurant component was proportioned 85-15%, with 15% of the general waste being FOGO waste. This proportion was based on the information provided by the Town of Victoria Park.



Table 2-2 Weekly Waste Generation for the Development

Type of Premises	Weekly Waste	Recycling	FOGO
1-bedroom	1,380.00	460.00	460.00
2-bedroom	7,440.00	2,480.00	2,480.00
Commercial (Restaurant)	3,848.46	891.80	679.14

The waste volumes presented are estimates only and are representative of the design drawings of the Development provided in November 2023.

2.2.2 Compactors and Carousels

It is proposed that a Carousel with a Compactor system (for general waste) be provided in the communal residential bin enclosure. A compaction rate of 50% has been used in the bin calculations although a higher compaction ratio could be achieved. The specifications for the carousel and waste compactor are included in **Appendix C**.

It is anticipated that the Development operator/Strata Manager will manage the on-site waste compaction process for the proposed development. The estimated compacted general and recycle waste is summarised in **Table 2-3**.

Table 2-3 Compacted Weekly Waste Generation for the development (Residential)

Type of Premises	Weekly Waste	Recycling
1-bedroom	690.00	230.00
2-bedroom	3,720.00	1,240.00
Total	4,410.00	1,470.00



2.3 Bin Requirement

A summary of the breakdown of the anticipated MGB requirements for the proposed development, the proposed bin sizes, and the proposed collection frequencies are indicated in **Table 2-4** and **Table 2-5**.

Table 2-4 Bin Requirements for compacted waste -Residential

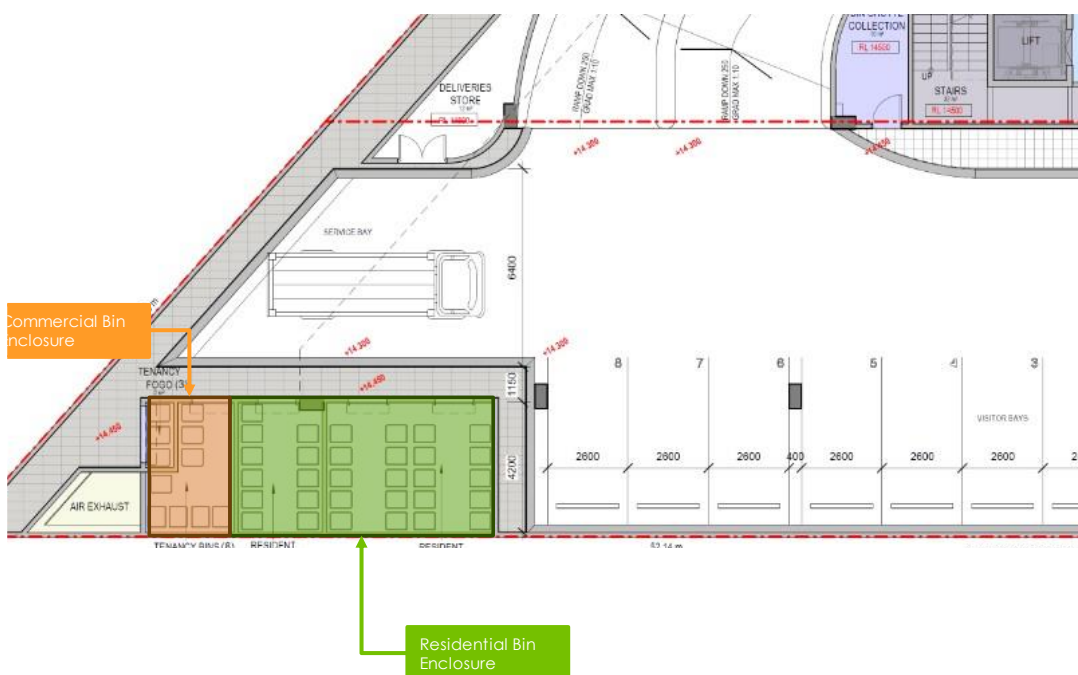
	Size (L)	Collection	No of Bins
General Waste	240	twice weekly	10
Co-mingled Recycling	240	twice weekly	4
FOGO	240	twice weekly	7
Total	21 x240L		

Table 2-5 Bin Requirements for uncompacted waste- Commercial

	Size (L)	Collection	No of Bins		
General Waste	240	3 times a week	6		
Co-mingled Recycling	240	twice weekly	2		
FOGO	240 </tr <tr> <td>Total</td> <td colspan="3">11 x240L</td> </tr>	Total	11 x240L		
Total	11 x240L				

A layout of the anticipated bin enclosure is illustrated in **Figure 2-1**. The proposed bin enclosures are adequately sized for the storing and manoeuvring of the bins.

Figure 2-1 Bin Enclosure



Source: ryan tsen architects (November 2023)

2.4 Bin Enclosure Layout

MGBs will be stored in an allocated enclosure within the Ground Floor of the Development and will be easily and safely accessible from within the development. The waste bins will generally be stored directly abutting the walls of the enclosures.

2.4.1 Design Consideration

A number of problems can arise from inadequate consideration of waste management in developments. Some of these problems include noise, odour, hygiene issues, vermin, negative impacts on the health, safety, environment and security. To avoid these issues, it is vital to consider waste management in the design and planning of the proposed Development.

Odour

The enclosure is located away from public areas which will prevent odour nuisance.

Noise

The bin enclosure is located away from public areas to limit noise that may otherwise disturb surrounding premises when materials are placed in the bins.

Vermin

The use of lidded MGBs will eliminate access by vermin. The use of bait stations will also be considered by the Development operator if required.

Aesthetics

The bin enclosure has been designed with the Development and as such will be consistent with the overall aesthetics, avoiding the placement of bins along the external faces of the building.

Protection from Vandalism

The bin enclosure will be closed off from public access and will use secured doors. No bins will remain or be stored outside of the enclosure.

Washing of Bins and Enclosure

A nominated staff/cleaner will be responsible for the organisation of regular washing of bins and for maintenance of the storage area. The washing area will have graded floors that drain to the sewer which will allow for the cleaning of the store and bins.



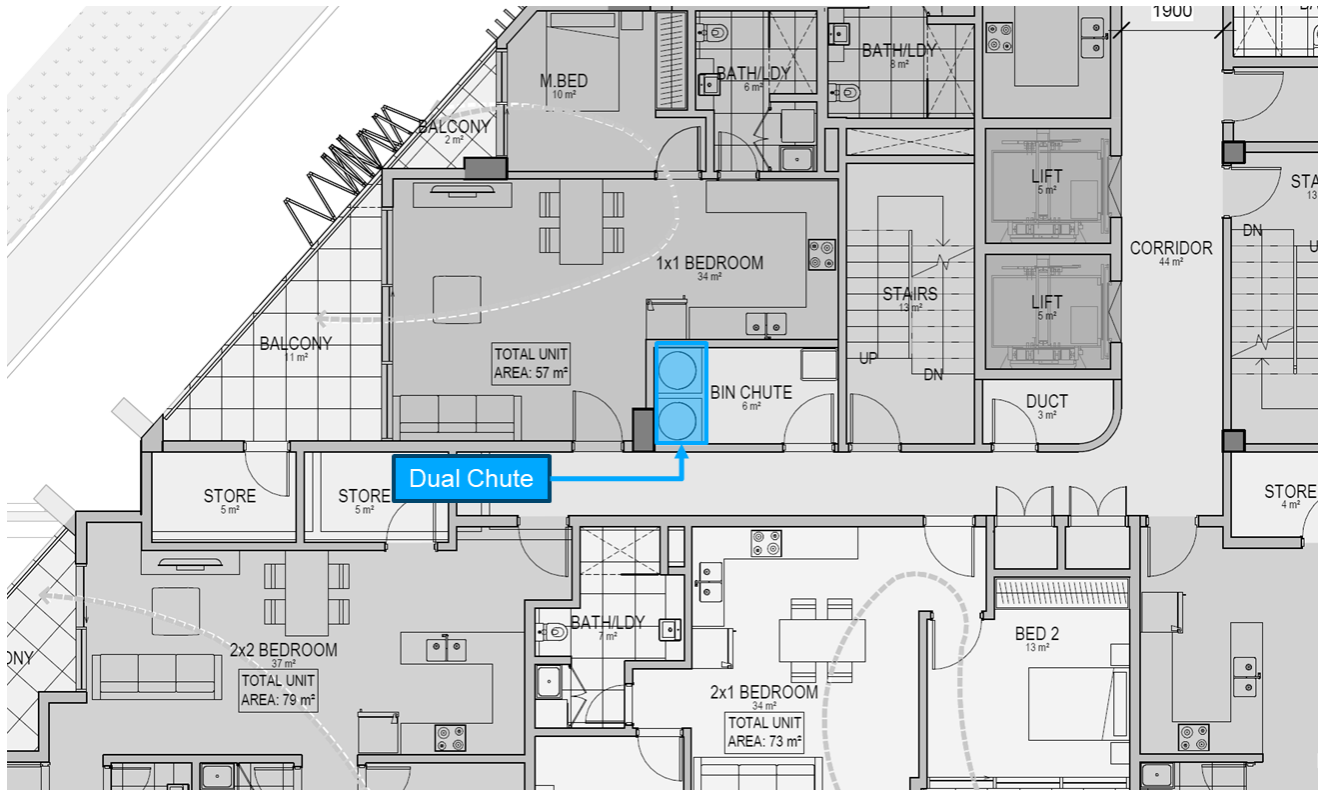
2.5 Transfer of Waste and Recycling

TOWN OF VICTORIA PARK
Received: 15/02/2024

2.5.1 Waste Transfer and Co-Mingled Recycling Transfer

Residents are to transfer their general waste and recycling via the dual chutes located on each floor as shown on **Figure 2-2**. The waste will be emptied into their respective bins within the associated bin enclosures.

Figure 2-2 Waste Chutes



Source: ryan tsen architects (November 2023)

2.5.2 Food Organic and Garden Organics (FOGO) Waste Transfer

All Residents, tenants and staff of commercial developments will transfer FOGO waste to the dedicated bin enclosures located on the site as required. These wastes will be emptied into their respective FOGO bins within the associated bin enclosures.

2.5.3 Commercial Waste Transfer

A separate bin enclosure is provided for the commercial tenancy. A nominated staff member will transfer waste to the dedicated bin enclosures located on the site as required. These wastes will be emptied into their respective bins within the associated bin enclosures.



2.6 Collection of Waste and Recycling

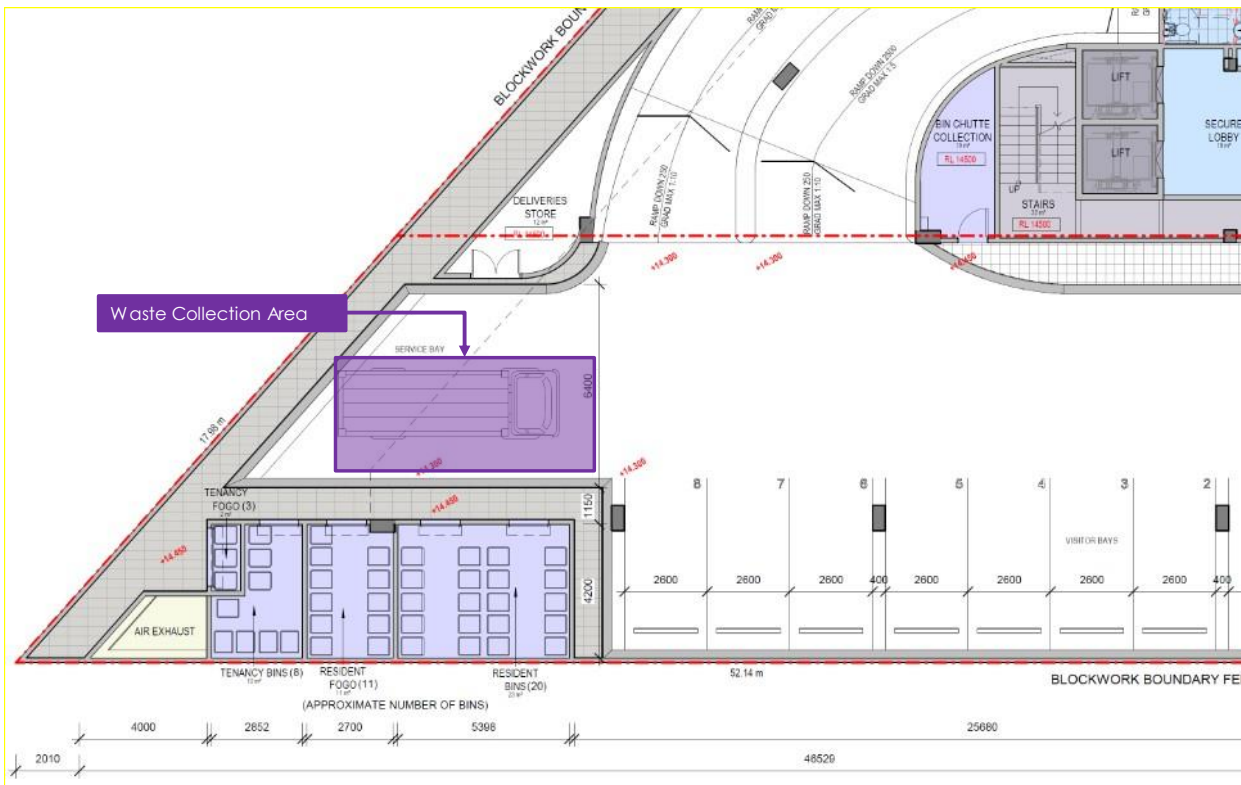
TOWN OF VICTORIA PARK
Received: 15/02/2024

2.6.1 Waste Collection

It is envisaged that the general, recycling and FOGO waste will be collected as per the frequencies indicated in **Table 2-4** and **Table 2-5**. Waste collection is proposed to be undertaken on-site at the dedicated loading area as illustrated in **Figure 2-3**.

The Facility Manager/staff member will provide the Town of Victoria Park's staff access to the bin enclosure who will ferry the bins to the waste vehicle on the days of collection and return the empty MGBs back to the respective bin enclosures.

Figure 2-3 Bin Presentation Area



Source: ryan tsen architects (November 2023)



2.6.2 Provision of Service Vehicle

TOWN OF VICTORIA PARK
Received: 15/02/2024

It is envisaged that the development will initially utilize the waste collection services provided by the Town of Victoria Park. However, in the event that the Town is unable to service this development, a nominated private waste contractor will be appointed to service the waste collection.

A swept path analysis for a 10 m waste vehicle was undertaken as illustrated in **Figure 2-4** and **Figure 2-5**. The Town of Victoria Park has advised that they would consider the reversing of the waste truck from Bank Street into the subject Site at a specified off-peak time. The swept path analysis illustrates that the City's waste truck is able to reverse into the site and park at the proposed waste collection area, empty the bins and then exit in a forward gear.

Waste collection is to be arranged to occur during off peak hours or after normal business hours to minimise disruption to traffic operations as well as minimise any impacts to staff and visitors.

Figure 2-4 Swept Path – Waste Collection (Ingress)

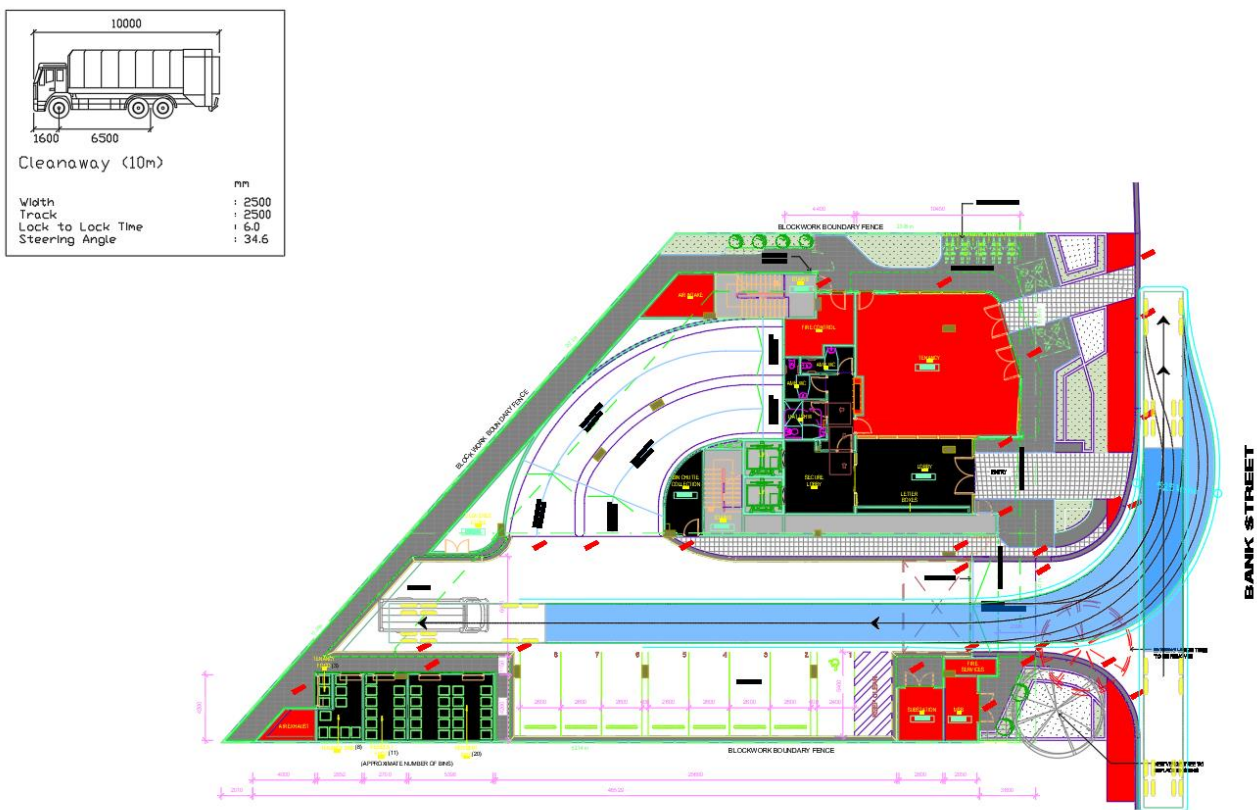
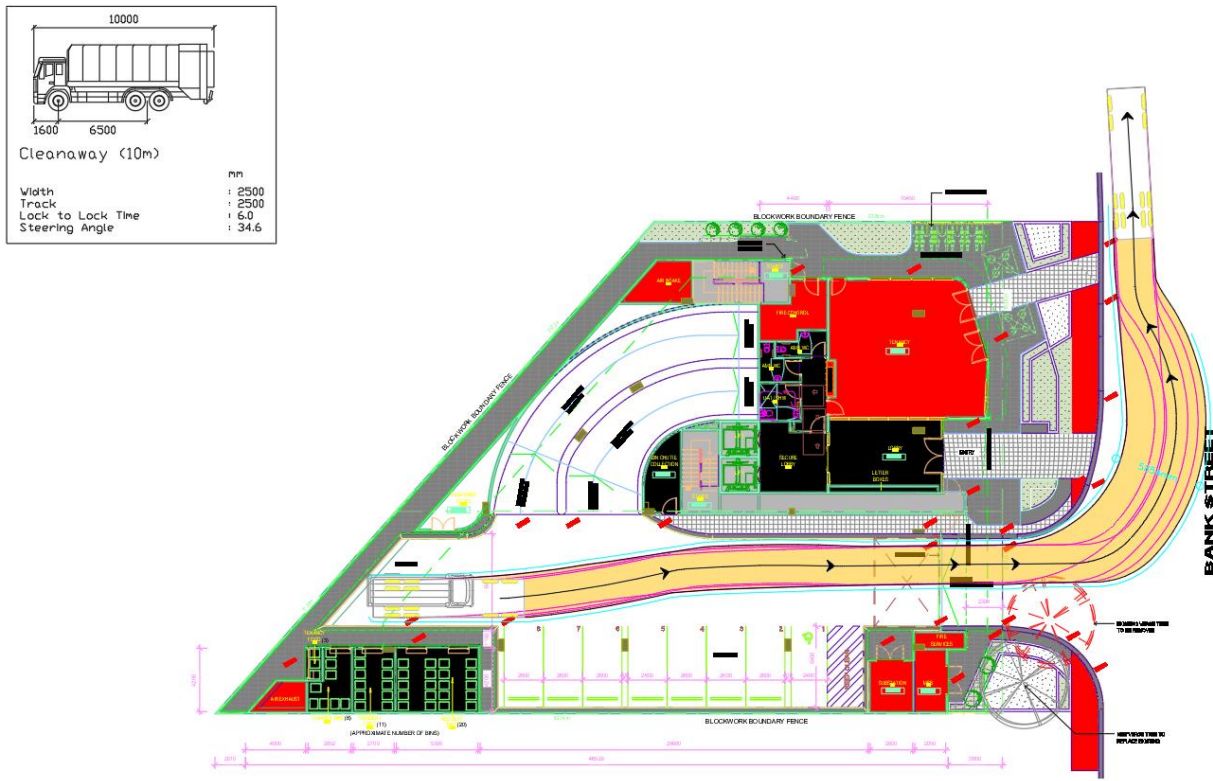


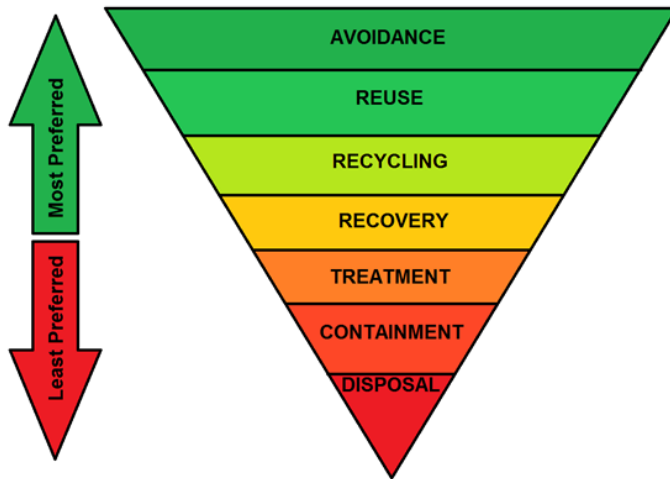
Figure 2-5 Swept Path – Waste Collection (Egress)



3. Waste Reduction and Management

This waste management plan has been developed with the strategic approach of reducing waste through best practices and education of residents, tenants and staff. Best practices for waste minimisation will optimise the Development’s use of the waste minimisation hierarchy, which seeks to encourage sustainable options for waste. The waste hierarchy is demonstrated in **Figure 3-1**.

Figure 3-1 Waste Hierarchy



3.1 Provision of Information

Information dissemination is essential in order to communicate well the best practices of waste management. Suitable types of information which can be provided includes:

- Online information.
- Sufficient labelling of bins, signage of bin enclosure areas and equipment to reinforce waste separation.
- Marketing materials such as posters and leaflets demonstrating procedures of waste segregation and waste collection days; and

However, information on its own is not enough and it must be paired with initiatives to be effective.

3.2 Engagement

A regular engagement between all stakeholders of the Development should take place to remind the residents, tenants, and staff the proper and best practices of waste management. The engagement should include.

- Demonstration of waste management systems pertinent to an individual’s role.
- Distribution of waste management strategy documents in relevant locations.
- An explanation of the benefits of waste separation and recycling; and
- Training on all pertinent equipment related to waste management.



3.3 Monitoring and Review

TOWN OF VICTORIA PARK
Received: 15/02/2024

The Facility Manager/nominated staff who will oversee the implementation of the Waste Management Plan should continually monitor and review the waste management plan activities.

The Facility Manager/nominated staff will be responsible for the following:

- Monitoring and maintenance of bins and the bin enclosure area.
- Monitor bulk wastes accumulation and coordinate with the Town for scheduled bulk waste services.
- Manage the bins in the bin area to ensure one bin is full before the next one is used by the apartment occupiers.
- Monitor residents and tenant's behaviour and identify requirements for further waste segregation and management education.
- Engage with new residents, and tenant's regarding best practices in waste management.
- Conduct regular training on waste segregation, reduction, and waste management; and
- Engage with the local authority to ensure efficient and effective waste service for the Development.

In the event waste generation rates for the Development change, a waste audit may be required by the Town or other regulatory bodies. Similarly, should a change to the waste regulations be implemented by the Town or other regulatory bodies, a waste audit may be required in addition to further waste stream separation.



4. Conclusion

TOWN OF VICTORIA PARK
Received: 15/02/2024

This Waste Management Plan demonstrates that the proposed development provides a sufficiently sized Bin Storage Area for storage of general, recyclable and FOGO waste based on the estimated waste generation and a suitable configuration of bins.

The collection of general, recyclable and FOGO waste is achieved using:

- > 10x240L general waste bins for residential dwellings, to be collected twice a week.
- > 4x240L recycling waste bins for residential dwellings, to be collected twice a week.
- > 7x240L FOGO bins for residential dwellings, to be collected twice a week.
- > 6x240L general waste for commercial tenancy, to be collected three times a week.
- > 2x240L recycling bins for commercial tenancy, to be collected twice a week; and
- > 3x240L FOGO bins for commercial tenancy, to be collected once a week.

It is envisaged that the development will initially utilize the waste collection services provided by the Town of Victoria Park. However, in the event that the Town is unable to service this development, a private waste contractor will be appointed.

Waste collections will be undertaken on-site and is to be arranged to occur during off peak hours to minimise disruption to traffic operations as well as minimise any impacts to residents, tenants and visitors. The Facility Manager/staff will provide the City access to the bin enclosure who will ferry the bins to the waste vehicle on the days of collection and return the empty MGBs back to the respective bin enclosure waste.



5. References

TOWN OF VICTORIA PARK
Received: 15/02/2024

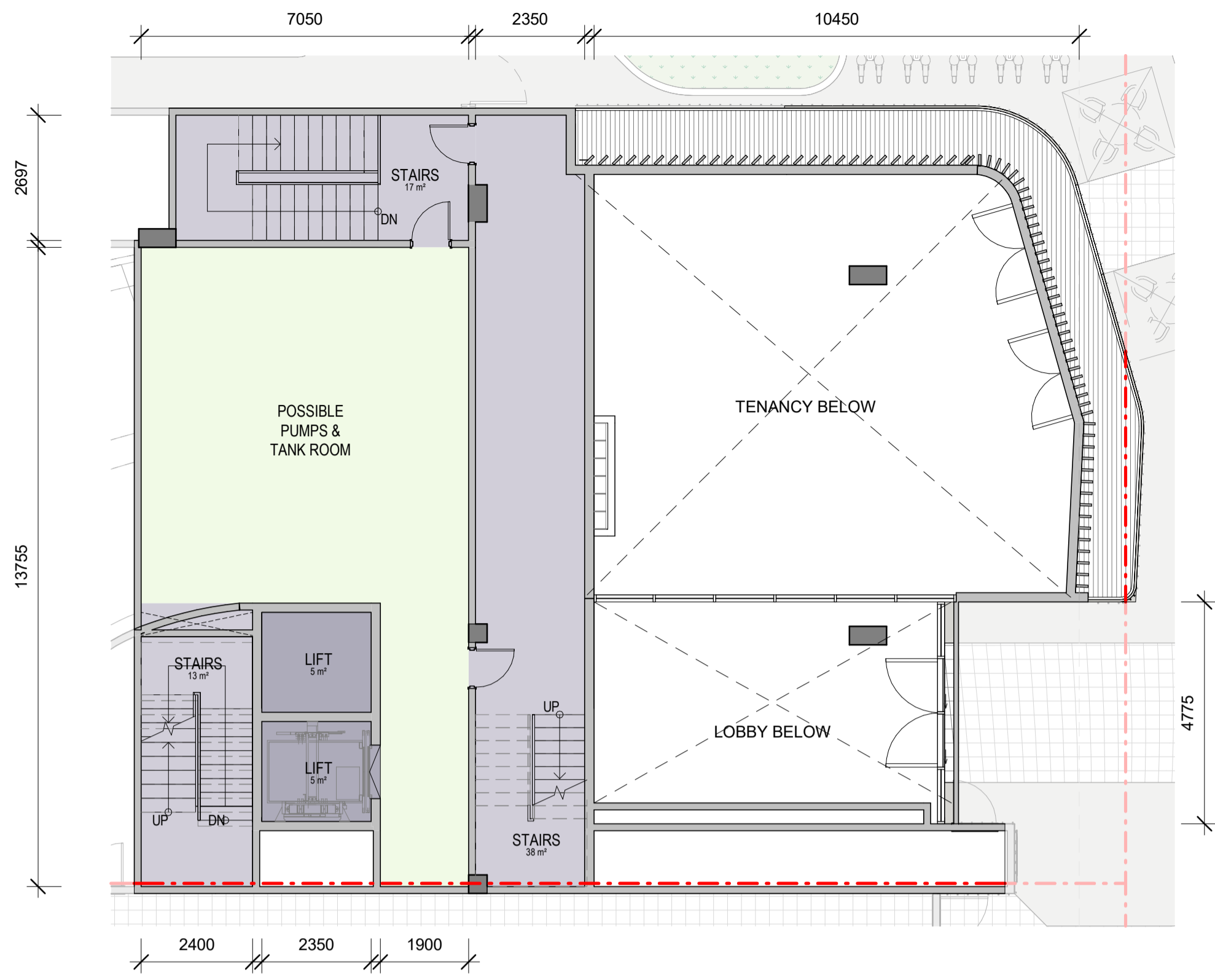
WALGA (n.d.), *Multiple Dwelling Waste Management Guidelines*, Perth.

WALGA (n.d.), *Commercial and Industrial Waste Management Guidelines*, Perth.



Appendix A. Site Plans

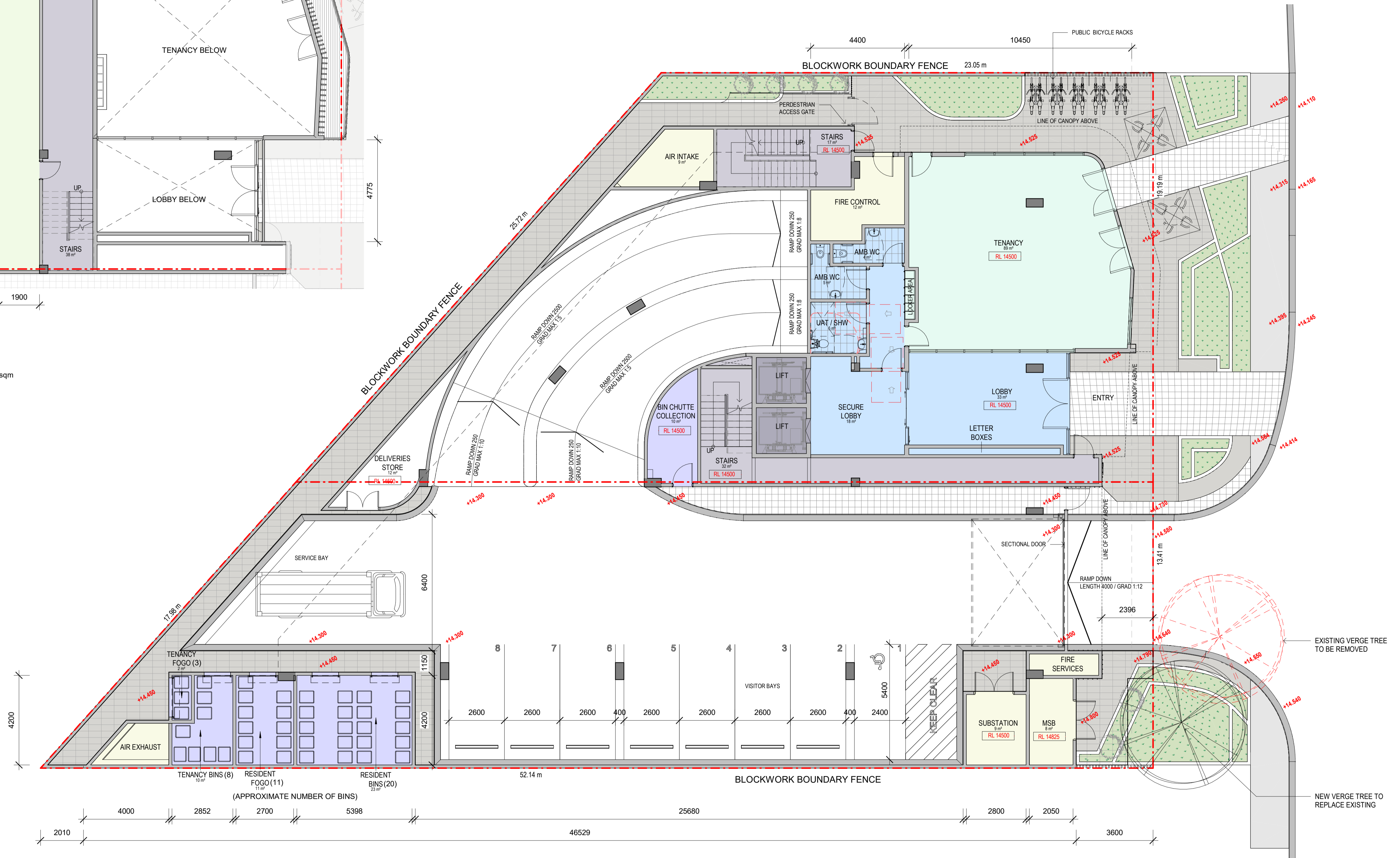




2 MEZZANINE FLOOR PLAN

SK170 1:100

FULLY ENCLOSED COVERED AREA= 158 sqm



1 GROUND FLOOR PLAN

SK170 1:100

FULLY ENCLOSED COVERED AREA= 368 sqm

BANK STREET

PRELIMINARY ISSUE

GENERAL NOTE: THE APARTMENT AREAS SHOWN HERE ARE APPROXIMATE AND ARE MEASURED TO:
- THE OUTSIDE FACE OF EXTERNAL WALLS
- THE OUTSIDE FACE OF WALLS BETWEEN APARTMENT & LOBBY
- THE MIDDLE OF PARTY WALLS
- THESE AREA MEASUREMENTS ARE "ARCHITECTURAL MEASUREMENTS" AND ARE DIFFERENT FROM "SURVEY DIMENSIONS".

Appendix B. Waste Calculations

Waste generation rate as per Town of Victoria Park and WALGA Waste Guidelines

Weekly waste estimates are based on the waste and recycling generation rates provided by the Town of Victoria Park and in the WALGA's Multi Dwelling Waste Management Plan Guidelines and WALGA's Guidelines for commercial and industrial waste which is outlined below.

General Waste and Recycling Generation Rates

Floor Item	Waste Rates	Recycling Rates	FOGO Rates
1 Bedroom (unit)	60 L/unit/week	20L/unit/week	20L/unit/week
2 Bedroom (unit)	120 L/unit/week	40L/unit/week	40L/unit/week
Restaurant	561 L/100sqm/day	130 L/100sqm/day	99 L/100sqm/day

The following equation was used to calculate the anticipated weekly waste generation for residential waste in each building:

$$\text{Total Amount of Waste Type} = (\text{Number of Units} \times \text{Waste Rate}) \times 7 \text{ days}$$

The total number of bins required for general, FOGO and recycling waste for residential waste for a twice a week collection was calculated using the following equation:

$$\text{Total Number of Bins Required} = \frac{\text{Total Weekly Waste Generated}}{240 \text{ L}} \times \frac{1}{2}$$

The following equation was used to calculate the anticipated weekly waste generation for commercial waste for the proposed development:

$$\text{Total Amount of Waste Type} = (\text{Floor Area} \times \text{Waste Rate}) \times \text{days per week}$$

The total number of bins required for general waste for the proposed commercial development for three times a week collection was calculated using the following equation:

$$\text{Total Number of Bins Required} = \frac{\text{Total Weekly Waste Generated}^1}{240 \text{ L}} \times \frac{1}{3}$$



The total number of bins required for recycling waste for the proposed commercial development of Woodbine Park for a weekly collection was calculated using the following equation:

Received: 15/02/2024

$$\text{Total Number of Bins Required} = \frac{\text{Total Weekly Waste Generated}^2}{240 L} \times \frac{1}{2}$$

The total number of bins required for FOGO waste for the proposed commercial development for a weekly collection was calculated using the following equation:

$$\text{Total Number of Bins Required} = \frac{\text{Total Weekly Waste Generated}}{240 L}$$





240 LITRE CAROUSEL SYSTEM

PRODUCT INFORMATION

Elephants Foot 240 litre bin Carousel System is a versatile waste handling solution for many types of multi-storey or multi-level developments. The Carousel System collects waste or recycling being disposed from the floors above through the chute system, discharging the material via a hopper that feeds the bins positioned on the unit. Electromechanically driven with automated operation, the Carousel System automatically replaces full bins by a revolving circular platform. Once all the bins on the system are filled, an indicator light will illuminate signifying that the bins are ready for withdrawal and collection. Available with or without compaction unit, our standard 240 litre bin Carousel System is available in 4 or 5 bin options.



SPECIFICATIONS

System Control	Electric PLC
Power Supply	415 V AC / 20A / 5 PIN
Motor Size (kW)	0.37
Maximum bin load	96 kg
Noise (dBA)	<85
Bin Size (L)	240
Cycle time (sec)	60
Bin Quantity options	4 or 5

OPTIONAL EXTRAS

- Compaction unit – Please refer to the bin compactor product information sheet for details and specifications
- Enhanced safety add on's – Interlocking barriers, occupancy sensors or safety light curtains (presence sensing light barriers)
- Full bin SMS and email notification
- CMMS and BMS integration
- Extend warranty – Terms and conditions apply

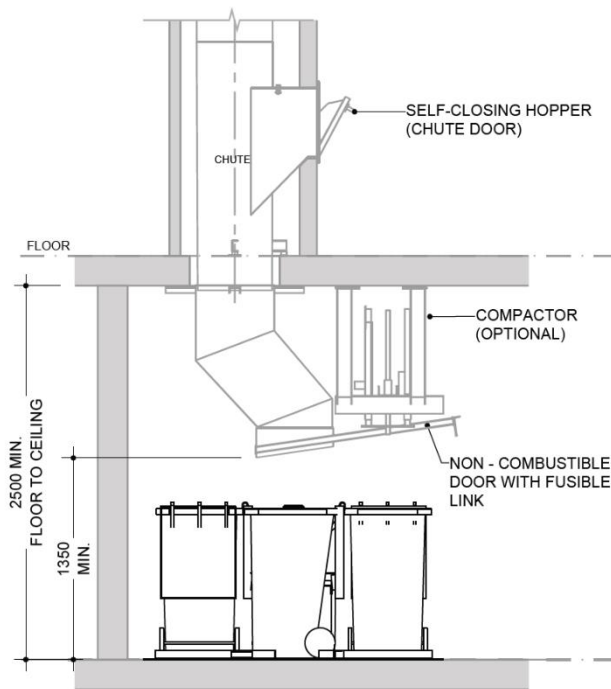
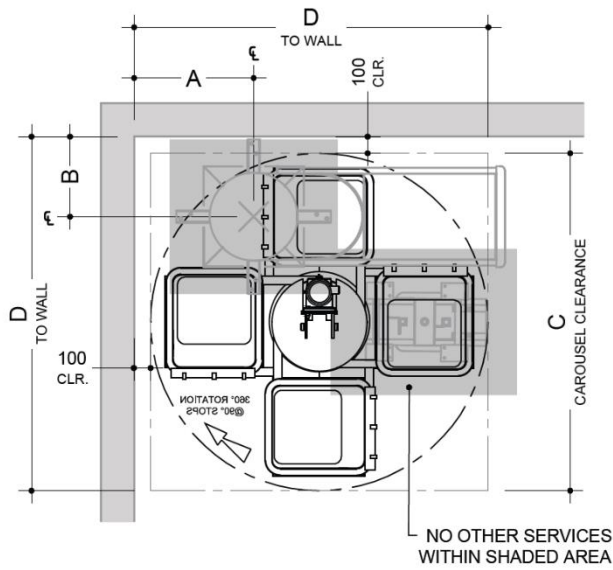
STANDARD FEATURES & BENEFITS

- Simple operation with user friendly controls
- Increased waste servicing efficiency for the development
- Automatic system control with manual override
- Robust unit construction for long performance life
- Low service and maintain costs
- Rotating flashing beacon (activated during operation)
- Quiet and efficient system operation
- Maximise safety for residents, caretakers and collectors
- Restrained design with minimal moving parts
- Can suit low ceiling clearances
- Floor contact components fully galvanised steel
- Retro fitting options to suit other chutes systems
- Compliant with relevant Building Codes and Standards
- Standard 12 month warranty

Source: Elephant Foot



CAROUSEL SYSTEM



Source: Elephant Foot

TOWN OF VICTORIA PARK
Received: 15/02/2024

240 LITRE BIN

240 LITRE BIN CAROUSEL SYSTEM				
No. of Bins	Reference (mm)			
	A	B	C	D
4	750	500	2020	2200
5	900	600	2460	2600

Notes:

Bins not provided by Elephants Foot

Drawings shown are for general information purposes only and provide minimum equipment spacial requirements for waste room design.

These drawings are not intended for site specific use or for construction. Each project is unique and will be designed to suit.

Additional equipment options, systems and configurations are available. For design assessment, information and advice, please contact an Elephants Foot design consultant on 1300 435 374



Smoothtubes™ Plastic Chutes

Chute Construction

Nominal Internal Diameter: Garbage 530mm
Material LLDPE (linear low density polyethylene). Internal surface is closed cell, ultra smooth finish that resists waste residue build up, odour, blockages, corrosion and liquid. +Fire hazard property tests in accordance with BCA Clause C1.10 and Specification C1. 10 in complying with Australian Standard AS1530 by Warrington Fire Research (Aust) Pty Ltd.

Material Thickness: Chute tubes 5mm nominal.

Mounts: Designed to be flexible and smoke seal at every level.

Noise & Vibration Prevention: Acoustic lagging is not necessary. Refer to #acoustic report. Isolation is provided at every level under the floor mounts. Flexible mount is isolated from concrete using polyurethane sealant that is acoustically rated.

Ventilation: 200mm diameter galvanised steel ventilation fan and discharge cowl assembly. The fan is supplied with 240 volt single phase plug and lead. The cowl assembly comes complete with dektite flashing. The vent is connected to the top of the chute by a flexible duct.

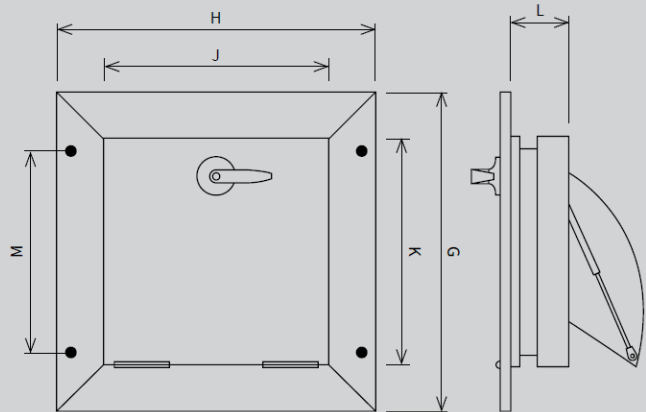
Loading throat door: Smoothtubes™ Loading Throats are molded within the chute tube creating a smooth flowing entry to reduce impact noise and minimise blockages. Loading doors -304 grade Stainless Steel with a fire block core, door frame sealed to wall using fire sealant. Compliance to Australian Standards AS.1530.1 (FRL:-/120/30). Doors are self closing. Key locks are supplied standard for Linen doors, Garbage and recycling doors. Fire sprinklers are installed in every loading throat ready for connection to fire services by others.

Deflector: The discharge of the chute has a 3 or 5mm thick Galvanised Steel deflector, set at 45 degrees (min) for discharge directly into a bin. The deflector is fitted with a fire activated fusible link close-off door which can be manually overridden, to close the chute for bin changes. For garbage discharge into an EcoPack Compactor the fire door is not required as the Compactor isolates the chute at all times.

Installation

Chute sections weigh no more than 15kg each allowing easy transport and installation by hand without reliance on Tower Cranes. Bricking up instructions are detailed on the front panel of every loading throat, which stays fitted until installation of loading door to prevent unauthorised use and potential damage from building rubble.

Chute Door Dimensions



Dimensions

Label	Waste Door	Linen Door	Recycling Door
G	603mm	573mm	603mm
H	603mm	573mm	603mm
J	435mm	432mm	432mm
K	435mm	432mm	432mm
L	110mm	110mm	110mm
M	380mm	380mm	380mm

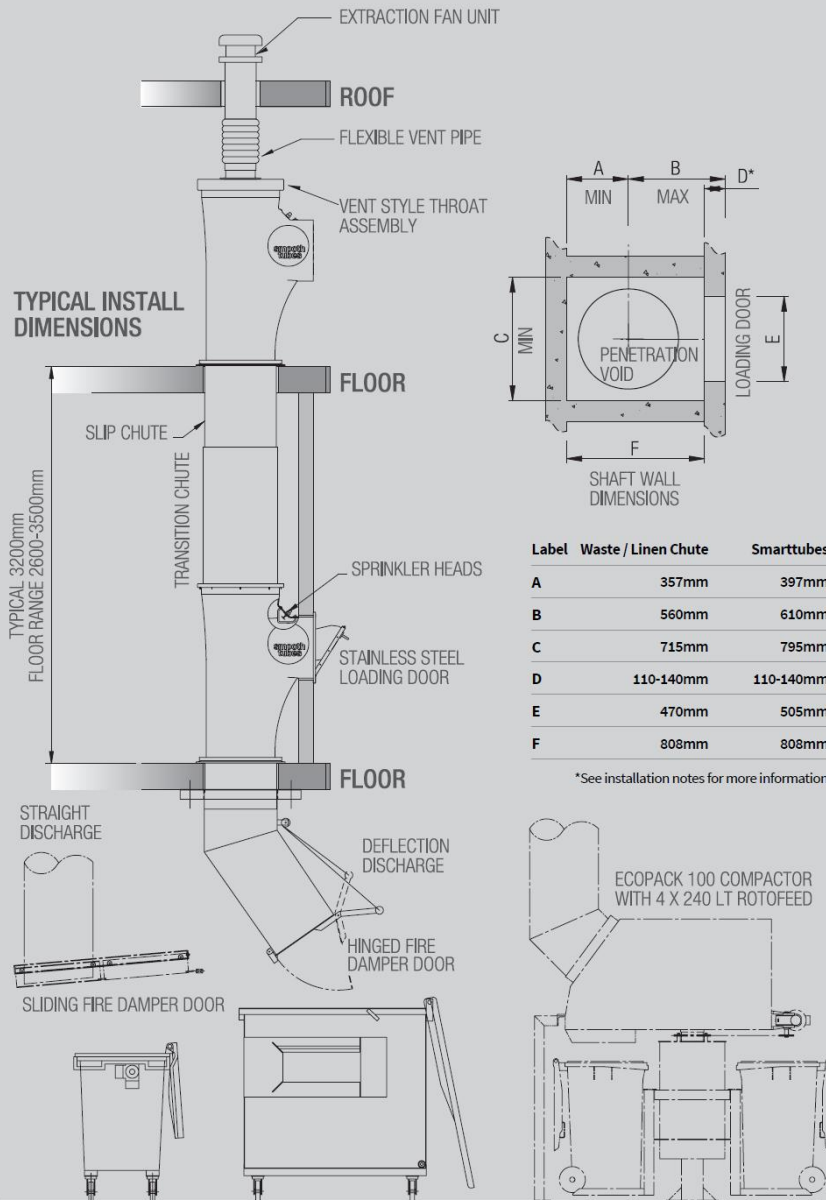
12 A large range of configuration options and layouts are available. For more information or specifications, please contact a Wastech consultant on 1800 465 465.

Source: Wastech



300305205 | Waste Management Plan
Proposed Mixed Use Development #167 & #169
Bank Street, East Victoria Park

Appendix C | Waste Equipment



Wastech reserves the right to make improvements, adjustments and amendments to design and dimensions.

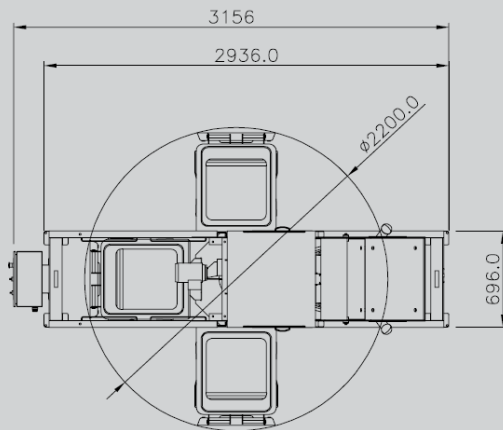
Source: Wastech



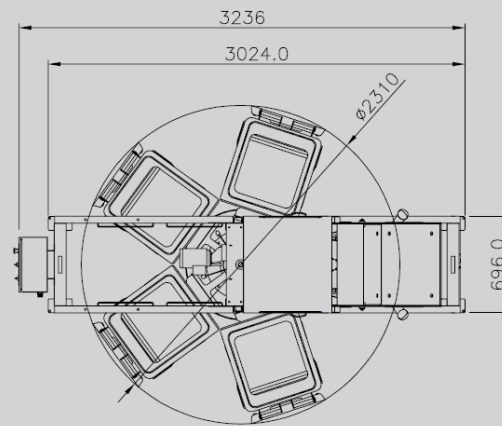
Bin Feed System Examples

Carousel Bin Feed System Examples

4 Bin System

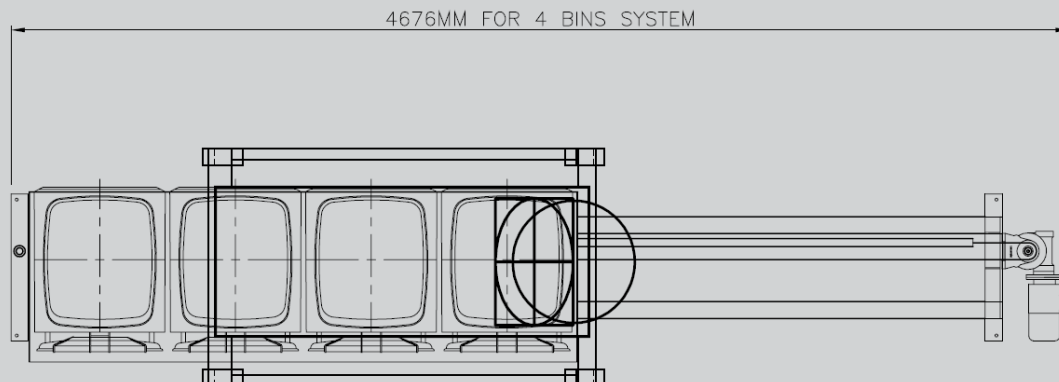


5 Bin System



Conveyor Bin Feed System Example

4 Bin System

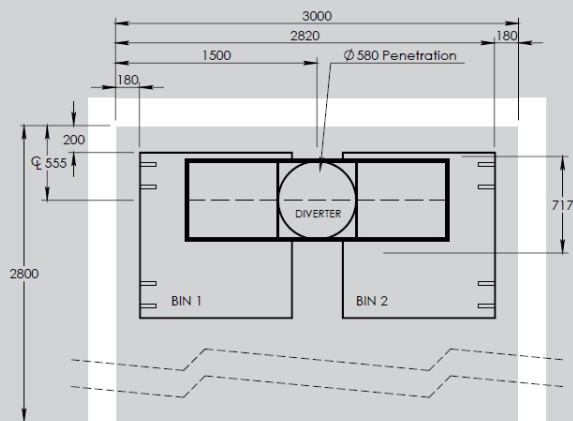


Source: Wastech

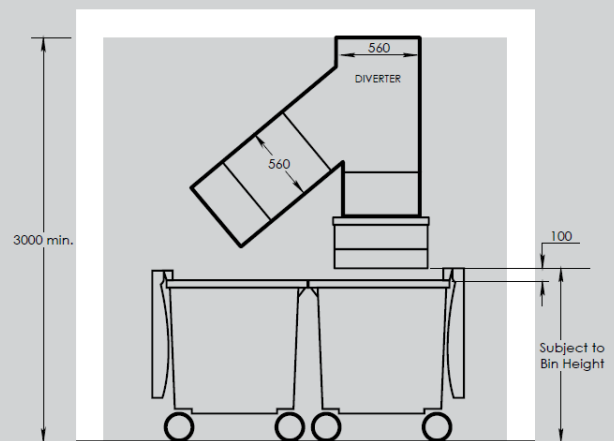
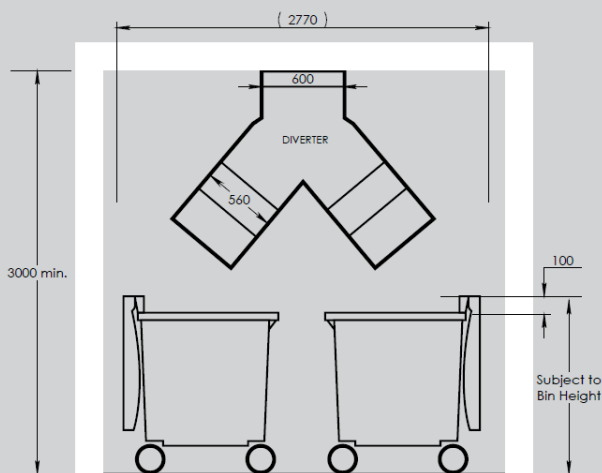
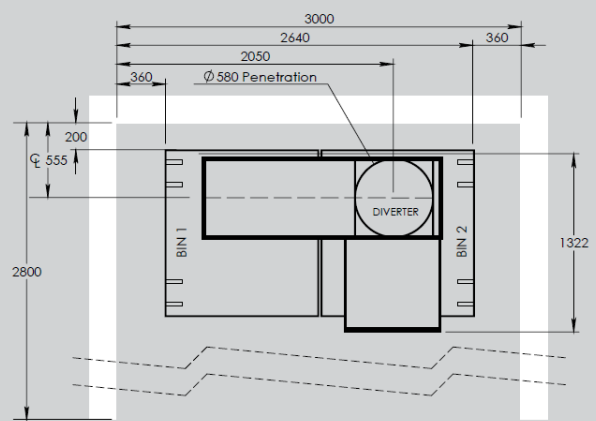


Diverter Example Room Layouts

Standard Configuration 1



Standard Configuration 2



16 A large range of configuration options and layouts are available. For more information or specifications, please contact a Wastech consultant on 1800 465 465.

Source: Wastech



TOWN OF VICTORIA PARK
Received: 15/02/2024

