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WASTE MANAGEMENT PLAN

28 Yarrunga Street, Prestons NSW 2170

Proposed Warehouses Development

Prepared for:	Bureau SRH Pty Ltd
Date Prepared	November 2019
Revision:	1.1
Liverpool City Council Application #:	TBA

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Introduction

AusWide Consulting was commissioned by Bureau SRH Pty Ltd to prepare a Waste Management Plan (WMP) for approval of a proposed Commercial development at 28 Yarrunga Street, Prestons NSW.

The proposed commercial development consists of; 8 Warehouse Units with Offices.

In the course of preparing this WMP, the subject site and its environs have been inspected, plans of the development examined, and all relevant council requirements and documentation collected and analysed.

This WMP has been prepared based on the following information:

- Architectural Plans provided by Bureau SRH Architecture
- As per the NSW Commercial and Industrial Waste Management Plan Guidelines

Background and Existing Conditions

The subject site is located at 28 Yarrunga Street, Prestons NSW, on the Northern side of 28 Yarrunga Street, and the nearby land uses are commercial.

Figure 1 provides an overview of the area and its surrounding land uses whilst **Figure 2** provides an aerial view of the immediate area surround the subject site.

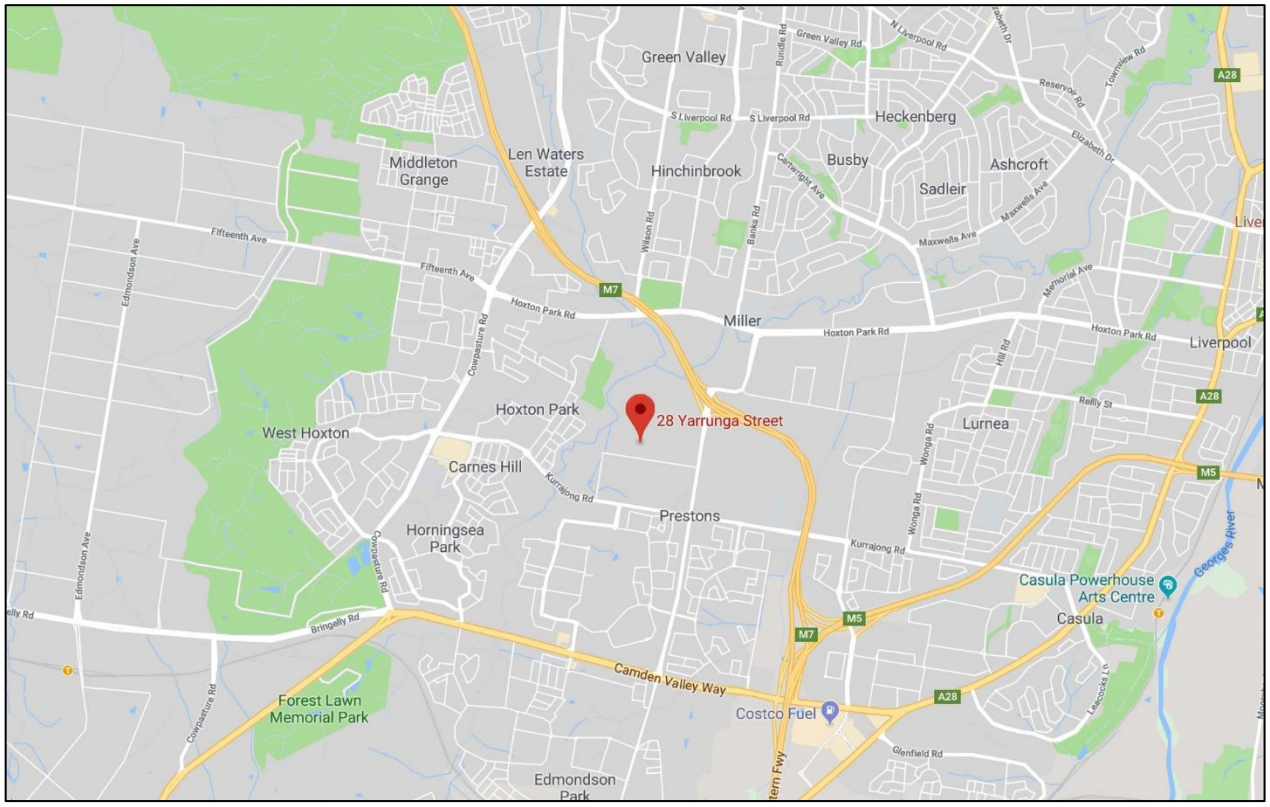


Figure 1: Location of the Subject Site

Figure 2: Aerial View of the Subject Site

Proposed Development

The proposed commercial development consists of Warehouses Development. Access to the proposed entrance of the complex will be provided via a paved walkway and driveway via 28 Yarrunga Street. The Mobile Garbage bins (MGBs) will be stored in the waste storage areas within the Independent warehouses. ***(Refer Appendix A).***

Anticipated Waste Generation, Storage and Collection

Due to the commercial development, collection should be done by a private contractor.

Waste Generation

As per the NSW Commercial and Industrial Waste Management Plan Guidelines:

The waste entitlement for: (a) Office is 10L/100m^2 of floor area per day garbage, 10L/100m^2 of floor area per day recycling. (b) Warehouses is 10L/100m^2 of floor area per day garbage, 10L/100m^2 of floor area per day recycling.

The following table illustrates the typical garbage and recycling generation rates for commercial.

Table 1: Typical Garbage and Recycling Generation Rates for Warehouses & Offices.

Type of Premises	*Land Waste Collection*	*Comingled Recycling Generation*
Office	*10L/100m² floor area/day*	*10L/100m² floor area/day*
Warehouse	*10L/100m² floor area/day*	*10L/100m² floor area/day*

Waste within Overall Development

Using the garbage and recycling generation rates above, the following can be calculated;

Unit 1 (7,448m² GFA)

- 10L/100m² of floor area per day garbage = 5,213.6L per week (uncompacted)
- 10L/100m² of floor area per day recycling = 5,213.6L per week (uncompacted)

Unit 2 (7,582m² GFA)

- 10L/100m² of floor area per day garbage = 5,307.4L per week (uncompacted)
- 10L/100m² of floor area per day recycling = 5,307.4L per week (uncompacted)

Unit 3 (6,957m² GFA)

- 10L/100m² of floor area per day garbage = 4,869.9L per week (uncompacted)
- 10L/100m² of floor area per day recycling = 4,869.9L per week (uncompacted)

Unit 4 (7,348m² GFA)

- 10L/100m² of floor area per day garbage = 5,143.6L per week (uncompacted)
- 10L/100m² of floor area per day recycling = 5,143.6L per week (uncompacted)

Unit 5 (8,431m² GFA)

- 10L/100m² of floor area per day garbage = 5,901.7L per week (uncompacted)
- 10L/100m² of floor area per day recycling = 5,901.7L per week (uncompacted)

Unit 6 (8,492m² GFA)

- 10L/100m² of floor area per day garbage = 5,944.4L per week (uncompacted)
- 10L/100m² of floor area per day recycling = 5,944.4L per week (uncompacted)

Unit 7 (7,905m² GFA)

- 10L/100m² of floor area per day garbage = 5,533.5L per week (uncompacted)
- 10L/100m² of floor area per day recycling = 5,533.5L per week (uncompacted)

Unit 8 (8,500m² GFA)

- 10L/100m² of floor area per day garbage = 5,950L per week (uncompacted)
- 10L/100m² of floor area per day recycling = 5,950L per week (uncompacted)

Waste Storage Areas

Based on the total waste generated by the development, the following Mobile Garbage Bins (MGBs) should be provided:

Unit 1

- 3 x 1,100L & 1 x 660L General Waste MGBs – collected twice weekly.
- 3 x 1,100L & 1 x 660L Recycling Waste MGBs – collected twice weekly.

Unit 2

- 3 x 1,100L & 1 x 660L General Waste MGBs – collected twice weekly.
- 3 x 1,100L & 1 x 660L Recycling Waste MGBs – collected twice weekly.

Unit 3

- 2 x 1,100L & 1 x 660L General Waste MGBs – collected twice weekly.
- 2 x 1,100L & 1 x 660L Recycling Waste MGBs – collected twice weekly.

Unit 4

- 3 x 1,100L & 1 x 660L General Waste MGBs – collected twice weekly.
- 3 x 1,100L & 1 x 660L Recycling Waste MGBs – collected twice weekly.

Unit 5

- 3 x 1,100L General Waste MGBs – collected twice weekly.
- 3 x 1,100L Recycling Waste MGBs – collected twice weekly.

Unit 6

- 3 x 1,100L General Waste MGBs – collected twice weekly.
- 3 x 1,100L Recycling Waste MGBs – collected twice weekly.

Unit 7

- 2 x 1,100L & 1 x 660L General Waste MGBs – collected twice weekly.
- 2 x 1,100L & 1 x 660L Recycling Waste MGBs – collected twice weekly.

Unit 8

- 3 x 1,100L General Waste MGBs – collected twice weekly.
- 3 x 1,100L Recycling Waste MGBs – collected twice weekly.

The following Table illustrates the typical dimensions of 660L & 1,100L MGBs mentioned above.

Table 2: Typical Mobile Garbage Bin Measurements for New Developments.

Size	Height (mm)	Width (mm)	Depth (mm)
660L	1,250	1,370	850
1,100L	1,470	1,370	1,245

The following figure illustrates a scaled diagram of the MGB's within the waste storage areas

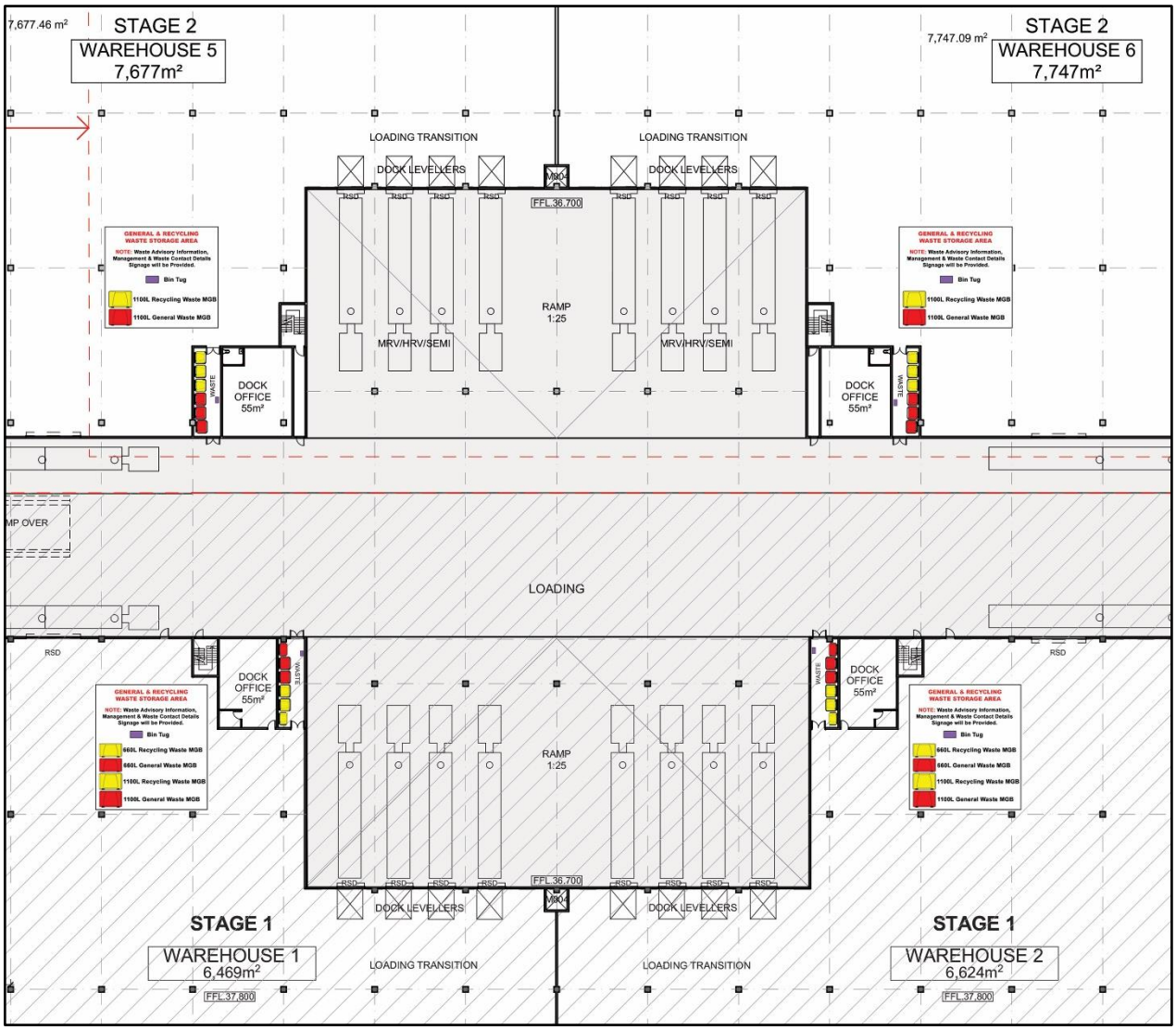


Figure 3: Scaled Diagram of the Typical Waste Storage Area

Figure 4: Typical Bin Tug

Waste Collection

The waste collection service for the proposed development will be provided by a private contractor.

The waste collection vehicle will enter the commercial development via Yarrunga Street, drive to all the warehouses, use the bin tug to ferry the MGB's to the waste vehicle and emptying the MGB's. Once all the warehouses have had their MGBs emptied and returned to the waste rooms, the waste vehicle will exit the development in a forward motion.

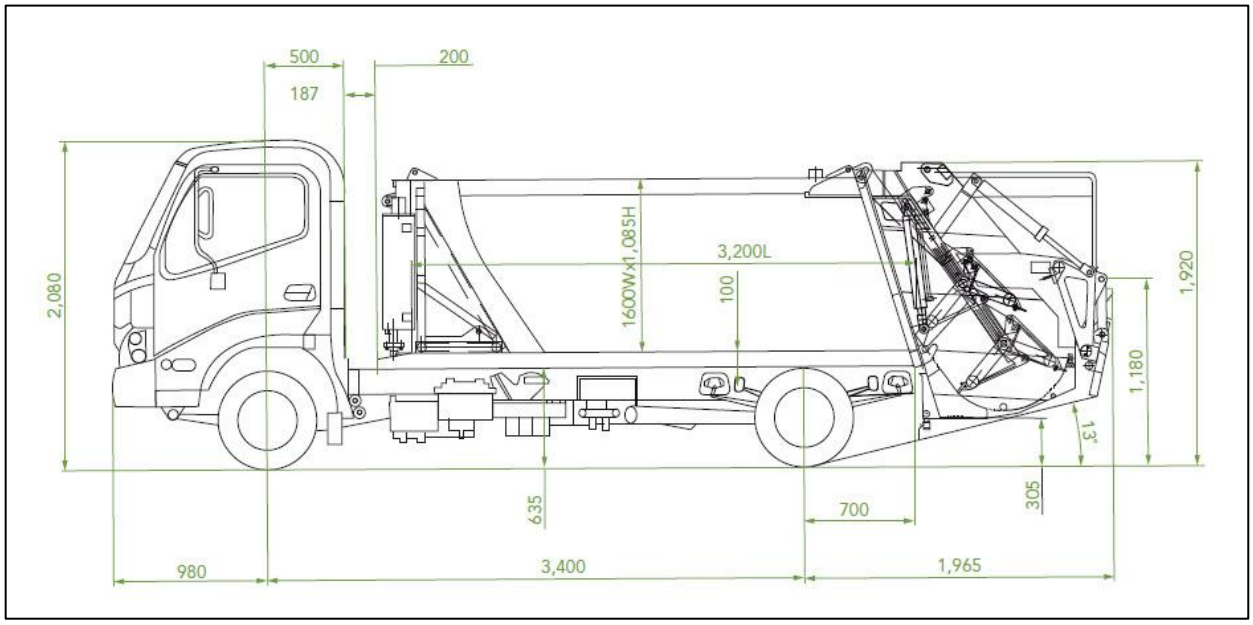


Figure 5: Template of the Waste Collection Vehicle

Amenity

Noise

The only noise generated from the waste management at the property will be that of the MGB's being wheeled to / from the waste truck. Any other noise related to the waste management will be kept to a minimum.

Ventilation

The waste bin areas will need ventilation.

Cleaning Facilities

The private contractor will be responsible for keeping the MGB's clean.

NOTE: Indoor waste enclosures should consist of: **(1)** impervious coated/treated walls and ground surface, ensuring the ground is graded to the sewer (100 mm diameter) floor drain outlet within the enclosure. **(2)** With a tap and hose (hose cock must be protected from the waste containers) for use of cleaning the MGBs and waste area. **(3)** The enclosure walls also be wet sealed to the ground surface preventing any water leakage beyond the waste enclosure. **(4)** Ventilation system (ducted to an external wall or ceiling). **(5)** Doors with the option to bolt the sliding gate open allowing easy removal of the MGBs.

Prevention of Vermin

Occupants will be advised to not overfill the bins so that the lids are closed at all times.

Security

All MGB's will be secured within the building whilst the Café waste area will be secured behind lockable gates.

Miscellaneous

Communal Composting Facility

No consideration has been given to a communal composting facility. Residents wanting to compost some of their rubbish will be required to do so individually.

Green Waste

Green waste will be handled privately.

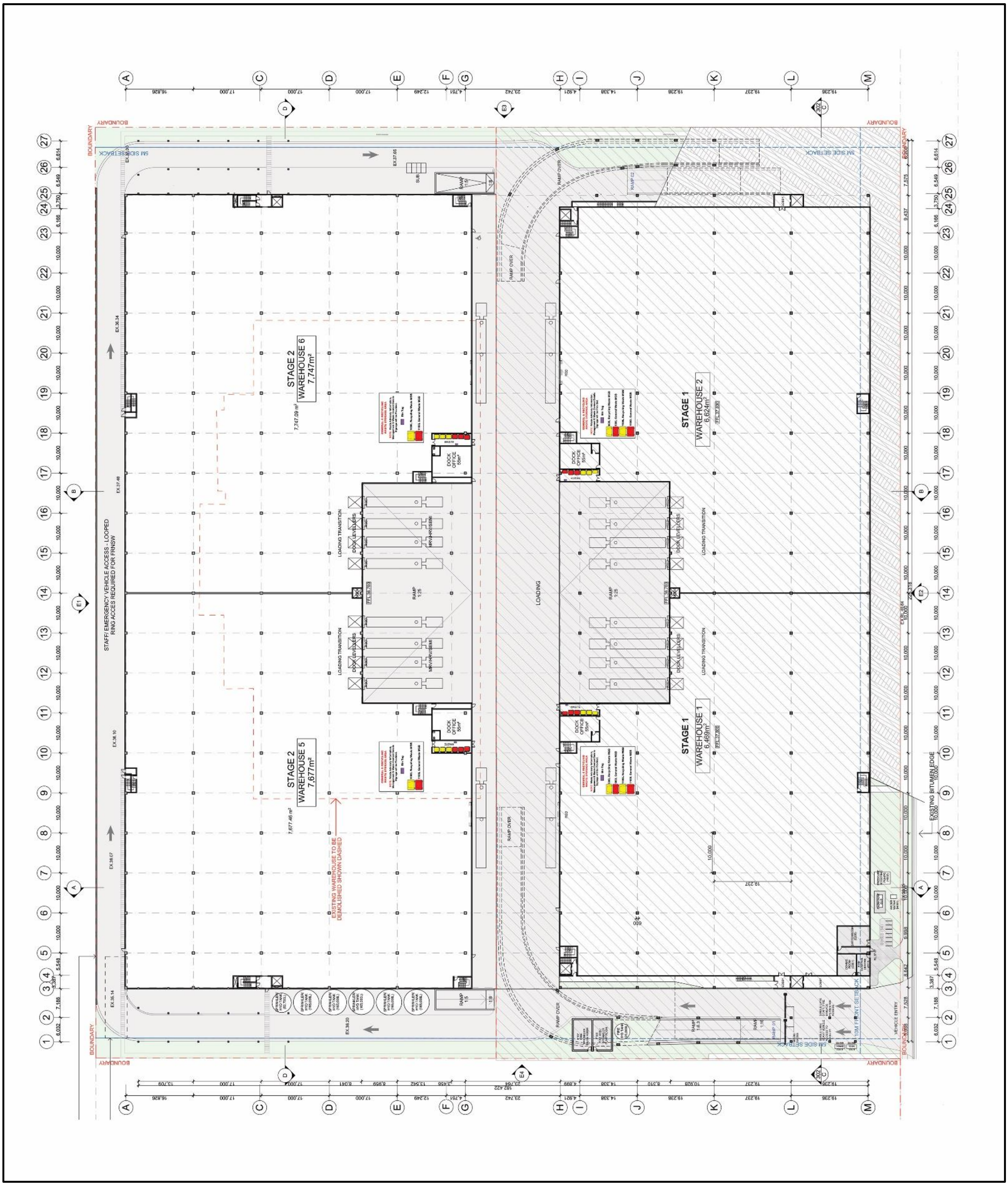
Hard Waste

Hard waste will be handled privately.

E-Waste

Recyclable electronic goods include batteries, equipment containing printed circuit boards, computers, televisions, fluorescent tubes and smoke detectors. E-Waste will be placed in impermeable surface containers and collected by a registered E-Waste Re-Processor as required.

Appendix A


STAGE 2
WAREHOUSE 6
7,747m²
STAGE 2
WAREHOUSE 5
7,677m²
STAGE 1
WAREHOUSE 2
6,624m²
STAGE 1
WAREHOUSE 1
LOADING
BOUNDARY
STAFF/ EMERGENCY VEHICLE ACCESS - LOOPED RING ACCES REQUIRED FOR FRNSW
EXISTING WAREHOUSE TO BE DEMOLISHED SHOWN DASHED