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Date Plans Provided: 16/02/2024

Waste Management Plan

681 Sayers Road, Hoppers
Crossing

02nd February 2024

Admin@msconsultants.com.au

Melbourne
Sustainability
Consultants.

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Document History

Version	Date	Status	Author	Approved
0	01/02/2024	Draft for review and comments	████	████
1	02/02/2024	Final for submission	████	████

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Executive Summary

This executive summary outlines the key points of the operational Waste Management Plan for the proposed development located at 681 Sayers Road, Hoppers Crossing. The complete report must be thoroughly reviewed prior to implementing the operational waste management plan.

The proposed development is the alteration and change of use to a meditation centre of an existing hall located at the back of an existing dwelling. The existing dwelling will be used by monks working at the meditation centre.

Waste will be collected via Council for the existing dwelling and private contractor for the meditation centre with the following frequency and bin quantity:

Residential Dwelling:

Waste Type	Bin quantity	Collection Frequency	Waste Contractor
Garbage	1 x 120L	1 time/week	Council
Recycling	1 x 240L	1 time/Fortnight	Council
FOGO	1 x 240L	1 time/Fortnight	Council

Space will also be allocated for a **future 120L glass waste bin** for the dwelling.

Collections will be undertaken from the kerbside on Best Street by Council waste truck. Bins will be rolled by the residents from their storage to Best Street on the evening prior to collection day. The collection vehicle will stop along Best Street and collect bins directly. Bins will be returned to their storage area by residents once empty by the end of collection day.

Meditation Centre:

Waste Type	Bin quantity	Collection Frequency	Waste Contractor
Garbage	1 x 120L	On-Call (When Needed)	Private
Recycling	1 x 240L	On-Call (When Needed)	Private
FOGO	1 x 240L	On-Call (When Needed)	Private

Space will also be allocated for a **future 240L glass waste bin** for the dwelling.

Collections will be undertaken onsite from car park. A SRV waste collection vehicle (6.4 metre length) will be used. Collection vehicles will enter and exit the site in a forward direction (see Appendix 1 for swept path diagrams).

Building management will ensure sufficient access is provided for private contractor during collection times. Bins will not be stored outside of the title boundary or presented to kerb for collection at any time.

Occasionally, as a result of shifts in legislative obligations, modifications in the development's requirements (such as changes in waste generation rates, volume, or distribution), or unforeseen operational challenges, it becomes the responsibility of Building Management to coordinate the required amendments to the Waste Management Plan.

1. Introduction

a. Proposed Development and Building Use

The site is located at 681 Sayers Road, Hoppers Crossing within Wyndham Local authority. The site is provided with a single entrance via Sayers Road.

The proposed development is comprised of two separate buildings with the following development summary

Residential	
Type	Quantity
Individual Dwelling	1

Commercial	
Type	Area
Place of Worship / Meditation Centre	181m ²

The existing double storey dwelling at the front of the site will be unchanged and used as the home for two resident monks. The use of this building will be purely residential and have waste generation associated with residential use.

The existing building at the back is proposed to be slightly altered and used as a Buddhist meditation centre. The use of this space will be mostly for mediation sessions for the surrounding Buddhist community as well as host specific celebration during the year. Waste generation for this building use will be described in section 2.

b. Local Waste Standards and Limitations

The following relevant guidelines and standards have been considered while preparing this operational waste management:

- Sustainability Victoria – Better Practice Guide for Waste Management and Recycling in Multi-Unit Development (2019)
- City of Melbourne Waste Generation Rates 2021 – SV guidelines bases all its waste generation on City of Melbourne.

This report does not cover waste management during the construction and fit-out stages of the development.

2. Waste Generation Assessment

The proposed meditation centre day-to-day activities include offerings to the monks and meditation sessions. These activities will not produce any specific waste. Planned special occasions such as Buddhist festival (four per year) or services for births, deaths etc. will be the only time where waste will be generated by the meditation centre.

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For this reason, it is proposed that the existing dwelling be proposed with relevant bins to handle its waste that will be collected by Council services.

The meditation centre is proposed to have bins provided to cater for special occasion and these bins will be collected by a private contractor on a need-to basis.

a. General Waste and Recycling

Sustainability Victoria – Better Practice Guide for Waste Management and Recycling in Multi-Unit Development (2019) specifies waste generation rates. Based SV's guidelines, rates for general rubbish and recycling are as follows:

General Waste Rates

- Individual Dwelling – 120 L/week
- Place of Worship – No Waste generation on day-to-day operations – Waste generation will only occur during special occasions/celebrations (see explanation above)

Recycling Waste Rates

- Individual Dwelling – 120 L/week
- Place of Worship – No Waste generation on day-to-day operations – Waste generation will only occur during special occasions/celebrations (see explanation above)

b. Food and Organic (FOGO) & Glass Waste Separation

This list of waste types to be separately treated is expected to expand by 2030 in line with the Victoria State Government's Recycling Victoria Policy. This will include separate treatment of FOGO and glass waste for a 4-stream system.

Garbage and recycling bins will comprise a percentage of FOGO waste and glass recycling, respectively. FOGO have been separated through an additional waste collection stream. An allocation for future separate glass waste stream service has been included in line with Victoria's 2030 targets. Glass collection services will be required to be provided once it is compulsory to start offering the service. Based on previous experience and guidelines (SV and City of Melbourne), the following percentages of these separate streams have been adopted:

- 35% of residential general waste is FOGO (based on SV's 2016 bin audit)
- 15% of residential commingled recyclables is glass.

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c. Waste Generation

Based on the waste generation listed above and consideration of the FOGO and glass separation, the weekly rates for the proposed development are detailed in the following table:

Space	Garbage	Recycling	FOGO	Glass
Individual Dwelling	78L	102L	42L	18L

Based on the rates above, the total waste generation for the **residential component** of the proposed development will be as follows:

Space	Quantity	Garbage (L/week)	Recycling (L/Week)	FOGO (L/Week)	Glass (L/Week)
Individual Dwelling	1	78L	102L	42L	18L
TOTAL		78L	102L	42L	18L

As described above, the proposed meditation centre will not generate waste from its day-to-day activities however it will generate waste when hosting special celebrations.

Based on the centre operation details, celebration will be limited to single day and have reasonable attendance (35 to 100 visitors throughout an entire day) therefore it is assumed that waste generation for general waste, organic or recycling will not exceed 360L for any single event. Glass waste generation is assumed to not exceed 240L for any single event. This waste generation for single event is conservative based on proposed type of event.

d. Other Waste

In addition to the waste streams described above, the development will generate hard waste and e-waste.

Residents will have access to Council hard waste collection services. Council provides three free hard waste and recycling collections for Wyndham residents each year. These must be pre-booked through Council at least 2 weeks in advance

For more information please visit <https://www.wyndham.vic.gov.au/services/waste-recycling/hard-and-green-waste-collection-service>.

E-Waste is banned from landfill. Occupants will be required to dispose of their E-waste at their nearest drop-off point. The nearest e-waste recycling drop-off point can be found on Planet Ark's Recycling Near You at <https://recyclingnearyou.com.au/electrical>.

3. Waste Systems & Storage

a. Bin Quantity and Size

Based on the waste generation listed in section 2c, the following bins and collection frequency will be required for the proposed residence: Date Plans Provided: 16/02/2024

Stream	Weekly Waste (L/Week)	Bin Size	Qty	Collection Frequency	Contractor
Garbage - Residential	78L	120L	1	1 per week	Council
Recycling – Residential*	240	240L	1	1 per fortnight	Council
FOGO – Residential	84	240L	1	1 per fortnight	Council

*Recycling currently includes glass waste as the service is not provided. **Space will be allocated for a future 120L bin for glass waste.**

Based on the maximum waste generation described in section 2c for single event in the meditation centre, the following bins and collection frequency will be required for the meditation centre:

Stream	Weekly Waste (L/Week)	Bin Size	Qty	Collection Frequency	Contractor
Garbage - Residential	360L	360L	1	On-Call (When needed)	Private
Recycling – Residential*	360L	360L	1	On-Call (When needed)	Private
FOGO – Residential	360L	360L	1	On-Call (When needed)	Private

*Recycling currently includes glass waste as the service is not provided. **Space will be allocated for a future 240L bin for glass waste.**

The proposed bin dimensions are as follows (from SULO):

- 120L bins - Height 0.93m, Width 0.48m, Depth 0.545m for footprint of 0.26m²/bin.
- 240L bins - Height 1.06m, Width 0.585m, Depth 0.73m for footprint of 0.42m²/bin.
- 360L bins - Height 1.1m, Width 0.68m, Depth 0.848m for footprint of 0.57m²/bin.

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b. Bin Storage Requirements

Bin Storage Location and Size

Residential Dwelling

Based on the number of bins listed in section 3a, the total footprint of the bins for each dwelling will be 0.78m². Bins will be stored in the dwelling's POS. This will allow easy access for users as well as easy transfer of bins to the collection point.

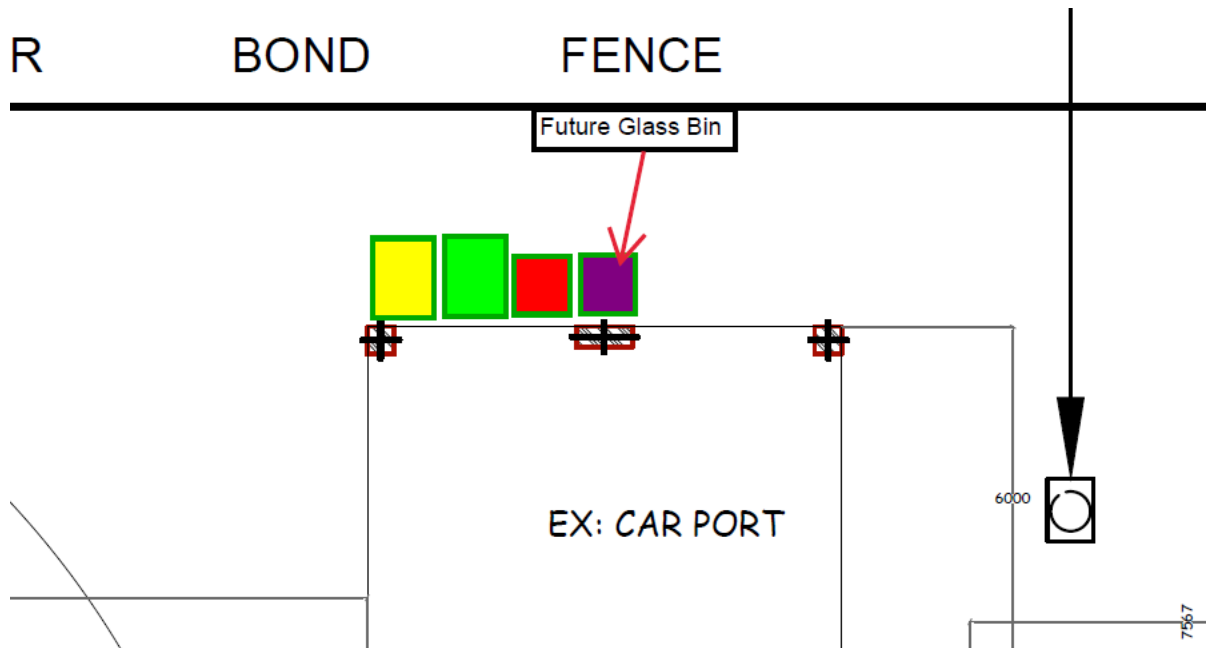


Figure 1: Proposed Waste storage for existing dwelling.

Occupants will not be permitted to store bins in front of the townhouses to protect the visual amenity of the common areas.

Meditation Centre

Based on the number of bins listed in section 3a, the total footprint of the bins will be 2.13m². The proposed bin storage area located at the side of the centre will be sufficient to store all bins and allow space for manoeuvring. The proposed bin storage allows easy access for the private contractor to access when collecting. See screenshot below of the proposed bin storage:

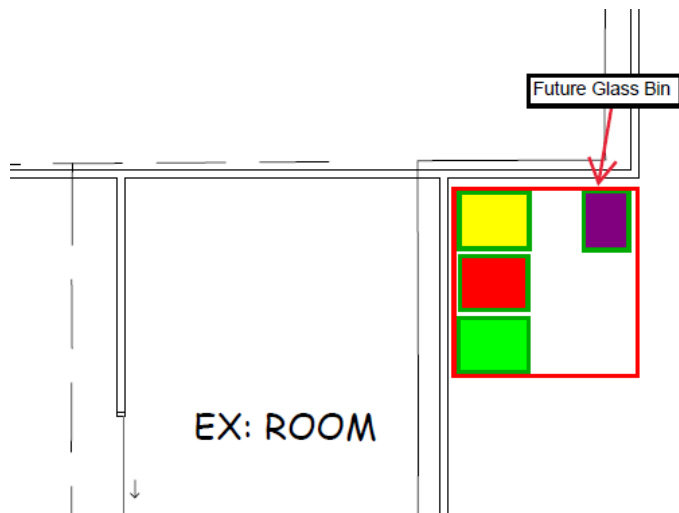


Figure 2: Proposed storage for meditation centre bin for events.

The bin storage room will be appropriately screened to ensure that the visual amenities are not compromised.

Bin Washing

Meditation Centre

The occupants will ensure that the bin storage area remains clean and clear to avoid attracting vermin and maintain easy access.

A bin wash area will be provided near or within the storage area. The bin washing area will include a tap, hose as well as drainage of all wastewater directly to the sewer.

Alternatively, a private contractor could be engaged to perform bin washing services on regular basis. All waste water should be retain by the contractor and transported offsite to not impact local drainage.

Residential Dwelling

Resident will be responsible for bin washing. A tap will be provided near the bin storage to allow for bin washing.

Ventilation

The storage areas are both outdoor and thus naturally ventilated which will help reduce odours related to the waste.

Noise

To minimise the disturbance to residents during waste collection, the collection should follow the criteria specified by the EPA, as below:

- Collections occurring once a week should be restricted to the hours 6:00am to 6:00pm, Monday to Saturday.
- Collections occurring more than once a week should be restricted to the hours 7:00am to 6:00pm, Monday to Saturday.
- Compaction should only be carried out while on the move.
- Routes that service entirely residential areas should be altered regularly to reduce early morning disturbance
- Noisy verbal communication between operators should be avoided where possible.

c. Bin Colour and Signage

All dwelling bins will be provided by the Council and medication entre bin will be collected by private contractor when required. Any replacement or repair of bins will need to be arranged with them. The below bin colours are specified by Australian Standard AS4123.72006:

- Garbage (general waste) bins shall have red lids with dark green or black body.
- Recycle bins shall have yellow lids with dark green or black body.
- Food organics bins shall have lime green lids with dark green or black body.
- Glass bins shall have purple lids with nature green body

These colours are recommendations only and it should be noted that private collection contractors often provide their own bins for collection. However, colour coding will be required to ensure bins are distinguishable reducing risks of contamination between streams.

Bins (on bin lid) and bin storage area will also include clear signage in line with industry standards. See an example of signage approved by Sustainability Victoria:





d. Internal Waste System

Adequate internal storage spaces will be provided within the meditation centre to enable the separation of waste (garbage, recycling, food and glass). Bin will not be larger than 60L to allow for easy manual handling.

4. Waste Collection and Methodology

Residential Dwelling

Council collection is proposed for the existing dwelling for monks.

Residents will roll out their bins to the kerbside on the evening prior to collection day and put the bins back once empty. Sufficient kerbside space is available to present all bins with minimum 300mm spacing between each bin as shown in the following mark-up – A maximum of three bins (when glass waste starts) will be presented for collection as recycling and organic waste will be collected on alternate fortnight.

The collection will require separate trucks for each waste stream.

All waste streams will be collected by Council, with pickups made once per week for general waste and fortnightly for recycling and food waste. The collection will be in accordance with EPA and the City of Wyndham requirements, to minimise any traffic disturbance for residents or visitors entering or exiting the site.

Meditation Centre

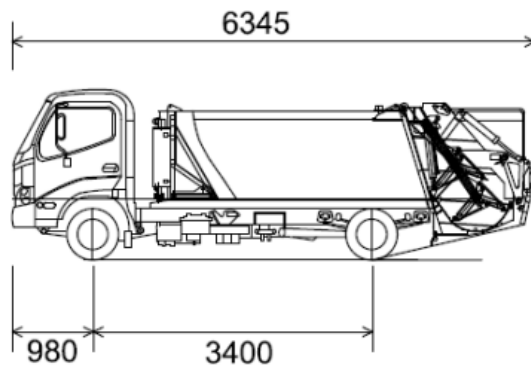
Private is proposed for the meditation centre as the collection will occur from within the site. The private collection will be provided at the expense of the owner of the land.

The collection will be made directly from the proposed new car par. The private waste contractor will enter the site via the proposed driveway, enter the car park and do a three-point turn within the car parking before rolling the bins from the storage area to the truck. The contractor will put the bins back in the storage area once empty. The truck will then exit the site in a forward direction. The building manager/ cleaner/ staff will therefore need to ensure that the private contractors have access to the bin store on collection day.

The collection will require separate truck for each waste stream.

As collection of the bins is to be made within the site, it is proposed that a Mini Rear Loader or similar vehicle is used for the collection. Mini Rear Loaders are approximately 2.08m high, 6.35m long and 1.7m wide.

Mini-Rear Loader Waste Collection Vehicle



Overall Length	6.345m
Body Width	1.700m
Overall Body Height	2.080m
Min Body Ground Clearance	0.205m
Track Width	1.670m
Lock to Lock Time	4.00 sec
Curb to Curb Turning Radius	6.450m

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300mm CLEARANCE (FORWARD)

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VEHICLE ENVELOPE (REVERSE)

300mm CLEARANCE (REVERSE)

Figure 3: Dimensions of the "Waste Wise Mini Rear Loader" truck (Source: Waste Wise Environmental Australia)

Please refer to Appendix 1 for swept paths assessment for the proposed truck.

The collection will occur outside of peak traffic hours and will be in accordance with EPA and the City of Wyndham requirements, to minimise any traffic disturbance for staff or visitors entering or exiting the site.

Collection of each waste stream will occur on an on-call basis as waste generation will only occur on specific event.

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5. Best Practice Waste Management

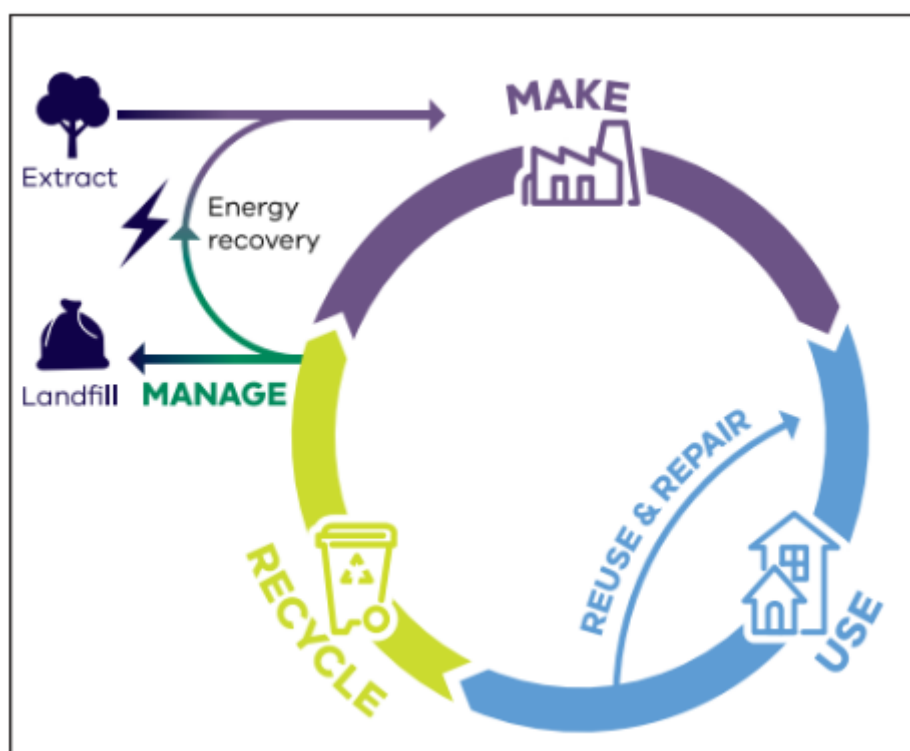
Released in 2020, Recycling Victoria: A New Economy by the Victorian Government outlines strategies aimed at curbing waste generation in Victoria and bolstering recycling and reprocessing efforts to mitigate environmental harm. This is a 10-year action plan.

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Vital elements such as ongoing education and dedicated management services play a pivotal role in fostering sustained user engagement and adherence to the intended services and systems.

The future occupants of the development are expected to actively endorse this strategy whenever feasible, while also encouraging users to actively participate in minimising the ecological repercussions of waste. In particular, emphasis should be placed on embracing the principles of the circular economy, as illustrated in the figure below.



This transformative approach seeks to continually diminish the ecological footprint of production and consumption, while concurrently fostering economic growth through more efficient utilisation of natural resources.

6. Contact Information

The below table included a list of contractors and waste related equipment supplied. This list is non-exhaustive and there is no obligation to use any of the services listed in the table. MSC does not provide any insurance or endorsements regarding services or goods provided by these contractor/suppliers.

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Service	Contractor Name	Phone	Website
Waste Contractor			www.idump.com.au
			www.wastewise.com.au
			www.cleanaway.com.au
			www.jjrichards.com.au
			www.veolia.com
			www.premierwaste.com.au
			www.suez.com/en/waste/
Bin Supplier			www.sulo.com.au
			www.kartaway.com.au
			www.premierwaste.com.au
Bin Washing Services			www.thebinbutlers.com.au
			www.kerbsidecleanabin-srp.com.au
			www.calcorpsservices.com.au
			www.wbcm-aust.com.au



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Appendix 1 – Swept Paths

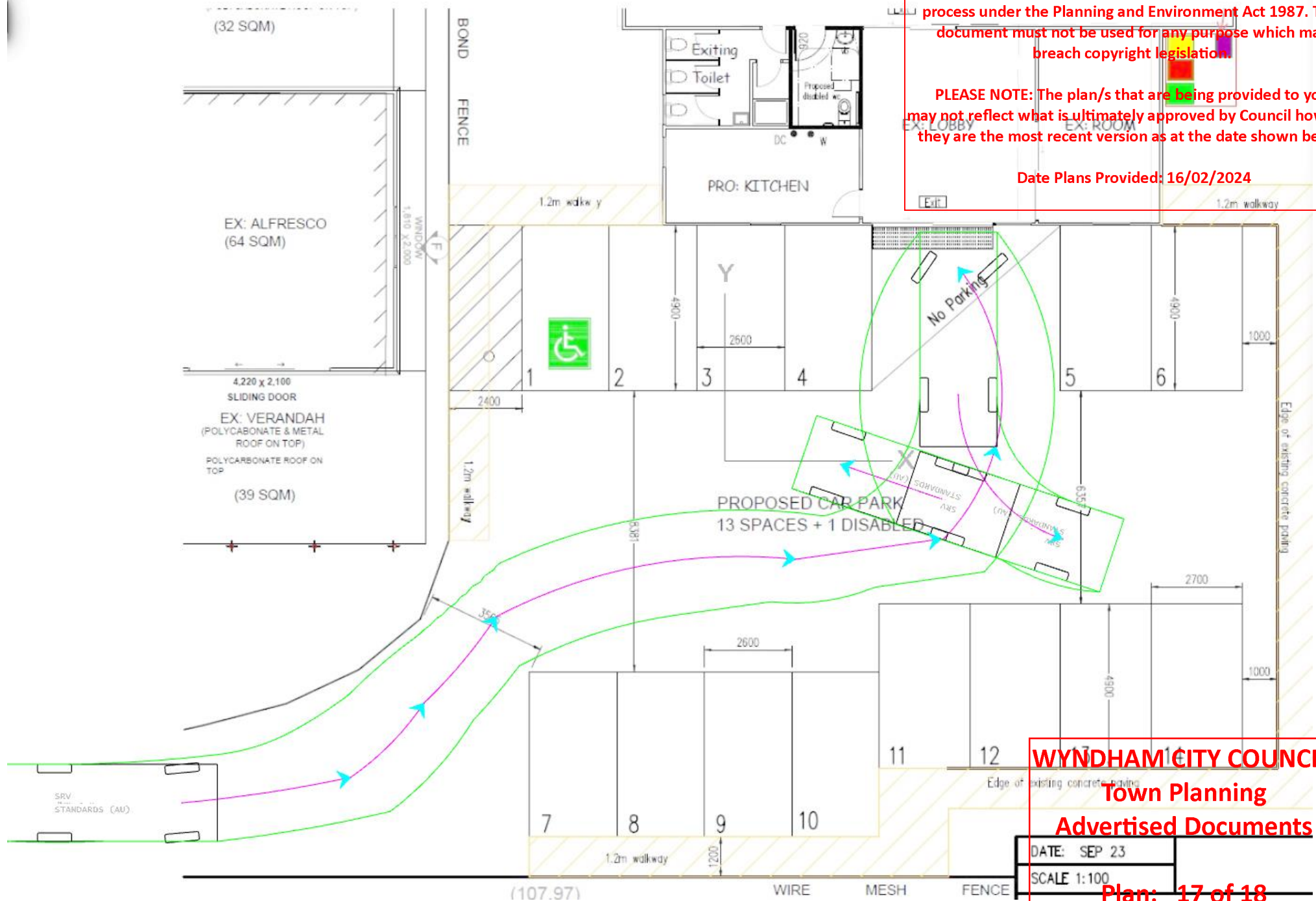
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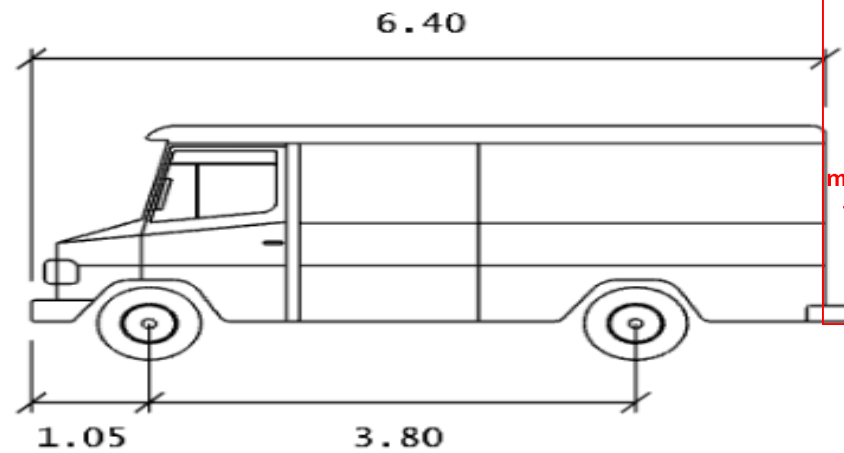


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SCALE 1:100

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SRV

	Meters
width	: 2.30
Track	: 2.30
Lock to Lock Time	: 6.0 s
Steering Angle	: 38.0 deg

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