

19 September 2019

Evan Boloutis  
EB Traffic Solutions Pty Ltd  
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0408 395 729

Ms Esther Hughes  
Esther@mraconsulting.com.au

Dear Ms Hughes

**TRAFFIC ENGINEERING ASSESSMENT: 115-119 COWPASTURE ROAD WETHERILL PARK, NSW**

The traffic engineering assessment has been based upon:

- Discussions with and information provided by the applicant;
- AutoTURN computer software for the swept path analysis;
- Letter from Fairfield Council to Zhinar Architects, Ref: 631.1/2018/NK, dated 15 August 2019;
- Traffic Impact Assessment report prepared by EB Traffic Solutions for the proposed development at 115-117 Cowpasture Road Wetherill Park (NSW), Rev B, dated 28 August 2018 and addendum reports, dated 21 March 2019 and 7 May 2019 (Rev B); and
- Layout plans prepared by Zhinar Architects, Job 8621, Sheet DA 428.1/2018, Dwgs DA 001 (Stage 1) and DA 002 (Stage 2), Rev B, dated 19 September 2019.

In response to Council's letter dated 15 August 2019, the development layout plans for Stages 1 and 2 have been updated to incorporate a detailed layout of the warehouses and ancillary offices, weighbridge and car park layout with associated pedestrian pavement markings.

The layout plans used as a basis for the traffic engineering assessment are shown in **Attachment A**.

An assessment was undertaken on the updated layout plans to examine the ability for the applicant's largest trucks to enter the development access, manoeuvre onto the weighbridge, enter and exit the warehouse loading docks to then exit from the site in a forward manner.

It is further understood that, to minimise the potential for conflict between arriving and departing trucks using the on-site weighbridge facility, a public weighbridge will be used to weigh articulated vehicles only which have departed from the development site.

Information provided by the client indicates that the largest trucks arriving and departing the site on a daily basis will be an 8.5 m long skip bin truck. In addition, it is understood that a 19 m articulated truck will arrive and depart from the site on one occasion per week, which is expected to be during the off-peak operating periods on weekdays between 7 am and 8 am or after 5 pm. The 19 m articulated vehicle will remove processed material from the site.

The analysis was undertaken with the use of the AutoTURN computer software using (conservatively) an 8.8 m Medium Rigid Vehicle for the development's day to day operations (refer **Attachment B**) and a 19 m articulated vehicle, which will visit the site once per week (refer **Attachment C**).

The Stage 2 layout plan has been adopted for the swept path assessment given that the location of the warehouse loading dock areas, weighbridge and car park layout with associated pedestrian pavement markings are identical for both Stages 1 and 2.

The directional manoeuvres examined at the development access point was based upon information provided by the client indicating that trucks will arrive at the site from the south and will therefore undertake a right turn manoeuvre into the site and, upon exiting from the site, the trucks will undertake a left turn manoeuvre out of the development access to travel to the south.

The swept path analysis indicates that:

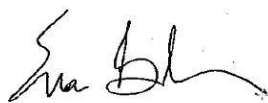
- An 8.8 m MRV can safely enter and depart the development access in a forward manner, can safely manoeuvre onto the weighbridge and can safely reverse into both loading dock bays to then exit from the loading dock bays in a forward manner; and
- A 19 m AV can safely enter and depart the development access in a forward manner, can safely manoeuvre onto the weighbridge and can safely reverse into both loading dock bays to then exit from the loading dock bays in a forward manner.

It is further understood that a communication system will be introduced between the administrative offices and all skip bin trucks. The communication system will ensure that truck arrivals are staggered to minimise the potential for queuing within the site's accessway.

In the event that two trucks arrive concurrently, then there is adequate provision for the initial truck to prop on the weighbridge whilst the second truck momentarily props within the accessway. Following the weighing procedure which is expected to take 3-5 minutes, the subsequent truck can be manoeuvred onto the weighbridge with the use of spotters.

At these times when trucks are manoeuvring into and out of the warehouse loading dock bays, it is recommended that traffic management control, in the form of a spotter, be used to temporarily hold any vehicles or pedestrians circulating within the site until the trucks have safely reversed into the warehouse loading dock bays or until the trucks have safely exited from the warehouse loading dock bays and from the site in a forward manner.

The spotter, who could be a staff member associated with the proposed development, is to be trained in Traffic Management Control.

A handwritten signature in black ink, appearing to read 'Evan Boloutis'.

Evan Boloutis  
**Director**  
**EB Traffic Solutions Pty Ltd**

B.Eng (Civil), MEng Sc (Traffic), MBA

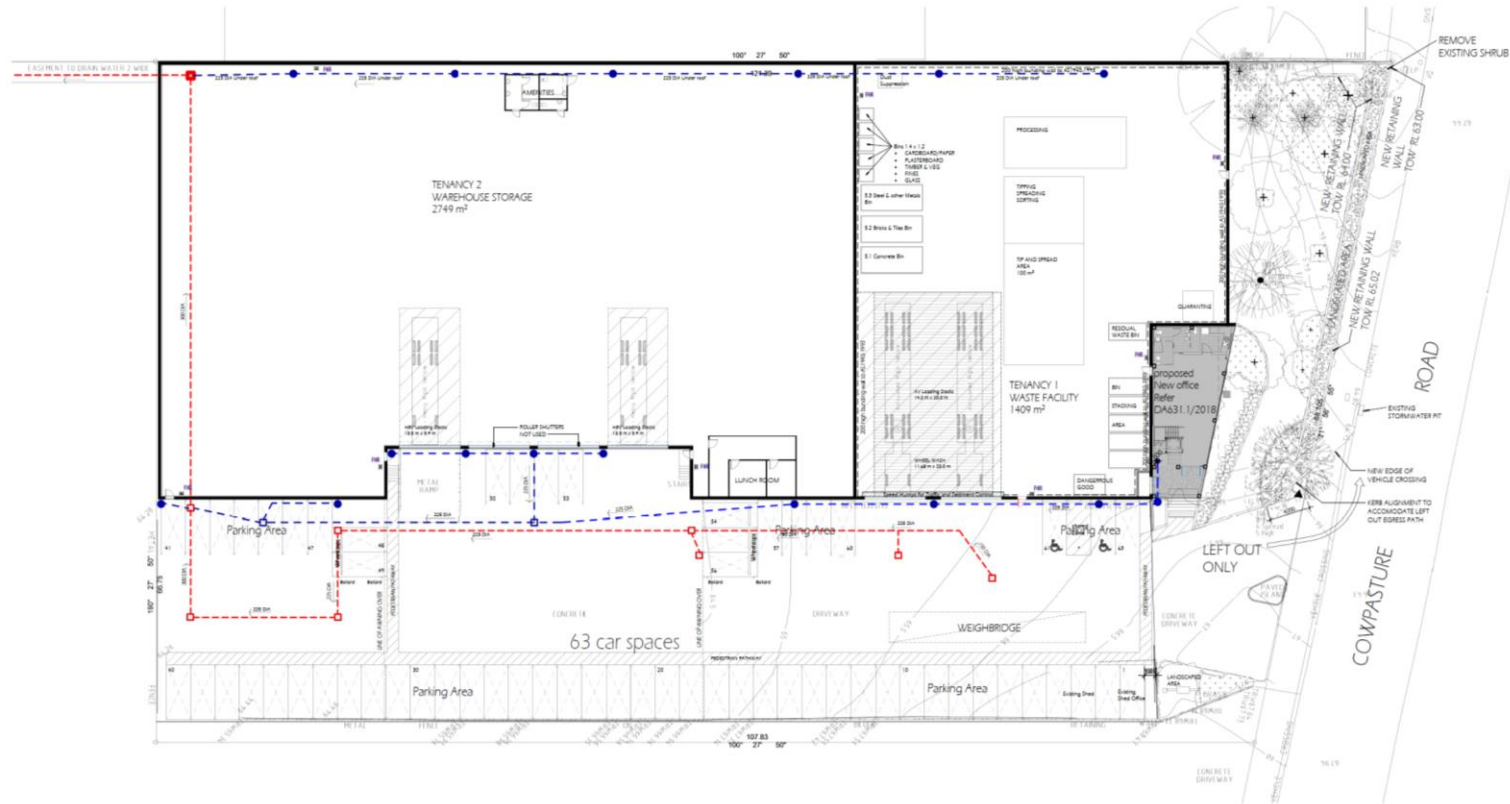
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**ATTACHMENT A**  
**DEVELOPMENT LAYOUT PLANS**



**SITE PLAN - Stage 1**  
1:200

Existing Site Area	~ 7650 m²	TENANCY 1 Waste facility	~ 1409 m²	TENANCY 2 Warehouse	~ 2749 m²
Existing warehouse building	~ 4158 m²	Loading area	~ 284 m²	Loading area	~ 160 m²
Existing Office to be demolished	~ 71 m²	G FA Waste Facility (excluding loading area)	~ 1125 m²	GFA Warehouse (excluding loading area)	~ 2589 m²
Loading bays	~ 444 m²	Office	~ 275 m²	Car spaces	~ 37 Cars
Proposed New Office	~ 275 m²	Car spaces	~ 24 cars		
Total of GFA excluding Loading area	~ 3714 m²				
Car spaces provided (including 2 Disabled Parking Spaces)	~ 63 Cars				

**NOTE**  
NEW DOWN PIPE TO BE CONNECTED TO EXISTING STORMWATER SYSTEM.

**LEGEND**

- EXISTING DOWN PIPE
- EXISTING PIT
- - - EXISTING ROOF DRAINAGE LINE
- - - EXISTING STORMWATER DRAINAGE LINE
- 150 DIA EXISTING PIPE SIZE AND FLOW DIRECTION

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8. No. of Sheets  
A. Coordination  
C. AMENDMENT

7/10/18 ST JC  
8/10/18 ST JC  
24/10/18 ST JC  
24/10/18 ST JC



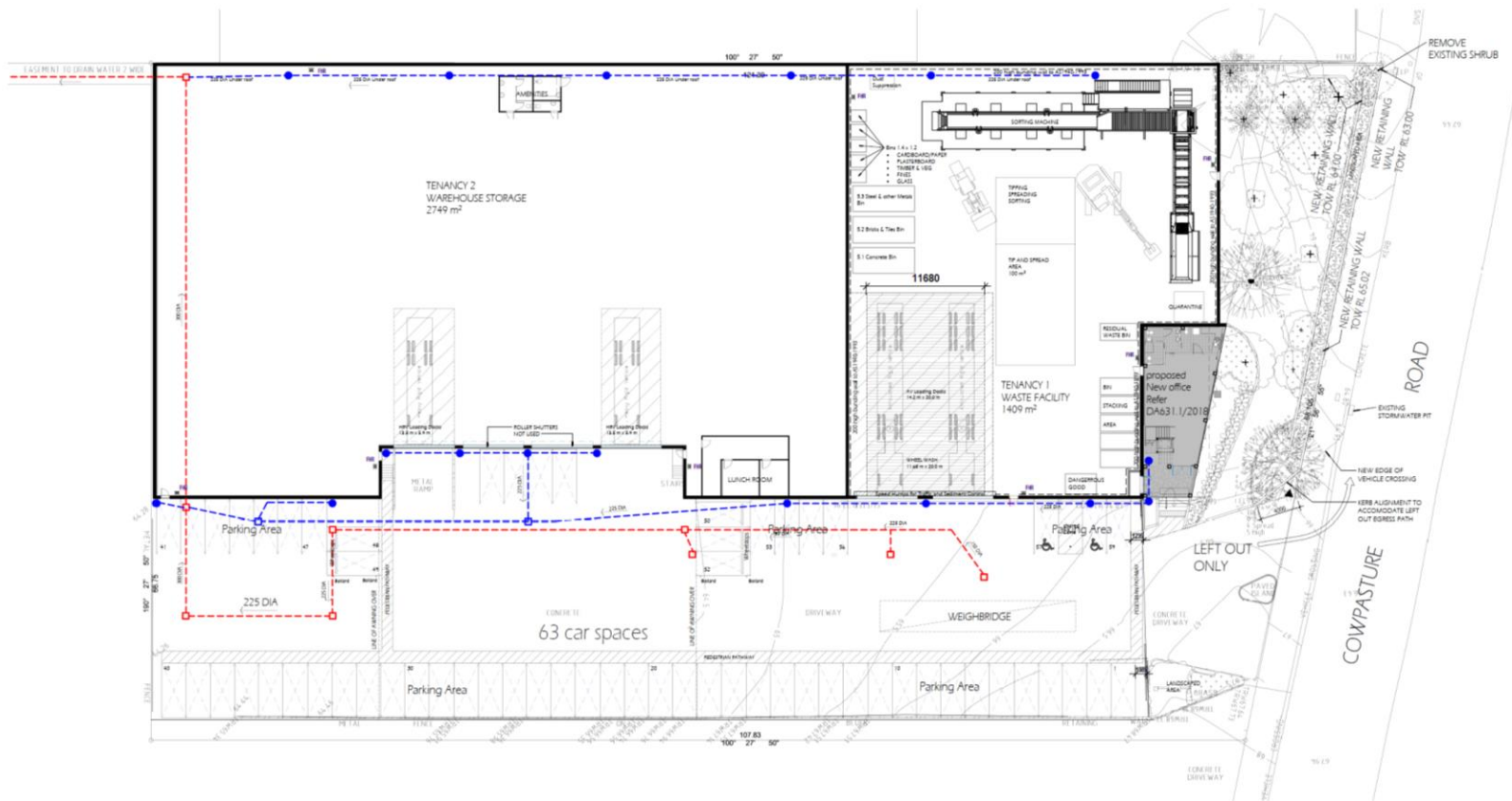
Zhin Architects Pty Ltd  
Level 1, Unit 2  
Riverside Drive  
Bentley, VIC 3207  
Tel: 03 9478 8888  
Fax: 03 9478 8887  
www.zhinarchitects.com.au

**PROJECT NAME**  
Development Application 428 1/2018

**PROJECT NAME**  
PROPOSED WASTE FACILITY  
115-119 Cowpasture Road,  
Waverley Park 2144  
LGA - Fairfield City

**SHEET TITLE**  
DA 428 1/2018  
Site Plan - Stage 1  
1:200 @ A1 sheet  
8621 DA 001  
2018

B  
65/4



1 SITE PLAN - Stage 2  
1:200

Existing Site Area	= 7650 m <sup>2</sup>	TENANCY 1 Waste facility Loading area	= 1409 m <sup>2</sup> = 284 m <sup>2</sup>	TENANCY 2 Warehouse Loading area	= 2749 m <sup>2</sup> = 160 m <sup>2</sup>
Existing warehouse building	= 4158 m <sup>2</sup>	G FA Waste Facility (excluding loading area)	= 1125 m <sup>2</sup>	G FA Warehouse (excluding loading area)	= 2589 m <sup>2</sup>
Existing Office to be demolished	= 71 m <sup>2</sup>	Office	= 275 m <sup>2</sup>	Car spaces	= 37 Cars
Loading bays	= 444 m <sup>2</sup>	Car spaces	= 24 cars		
Proposed New Office	= 275 m <sup>2</sup>				
Total of GFA excluding Loading area	= 3714 m <sup>2</sup>				
Car spaces provided (including 2 Disabled Parking Spaces)	= 63 Cars				

NOTE  
NEW DOWN PIPE TO BE CONNECTED TO EXISTING STORMWATER SYSTEM.

LEGEND

- EXISTING DOWN PIPE
- EXISTING PIT
- EXISTING ROOF DRAINAGE LINE
- EXISTING STORMWATER DRAINAGE LINE
- 150 DIA EXISTING PIPE SIZE AND FLOW DIRECTION

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Drawn by: [Name]  
Checked by: [Name]  
Reviewed by: [Name]

1:1000/1:1000  
1:1000/1:1000  
1:1000/1:1000



Zhin Architects Pty Ltd  
Scale 1:1000  
Drawing No: 428.1/2018

PROJECT STATUS:  
Development Application 428.1/2018

PROJECT NAME:  
PROPOSED WASTE FACILITY  
115-119 Cowpasture Road,  
Wentworth Park 2164  
U.S.A. Fairfield City

SHEET TITLE:  
DA 428.1/2018  
Site Plan - Stage 2  
1:200 @ A1 sheet  
SIZE:  
8621 DA.002  
JOB No. 428.1/2018

B

**ATTACHMENT B**

**SWEPT PATH ANALYSIS (8.8 M MRV)**



115 - 117 Cowpasture Road, Wetherill Park (NSW)

Scale 1:200 @ A3

Swept Path Diagram (Rigid Truck)

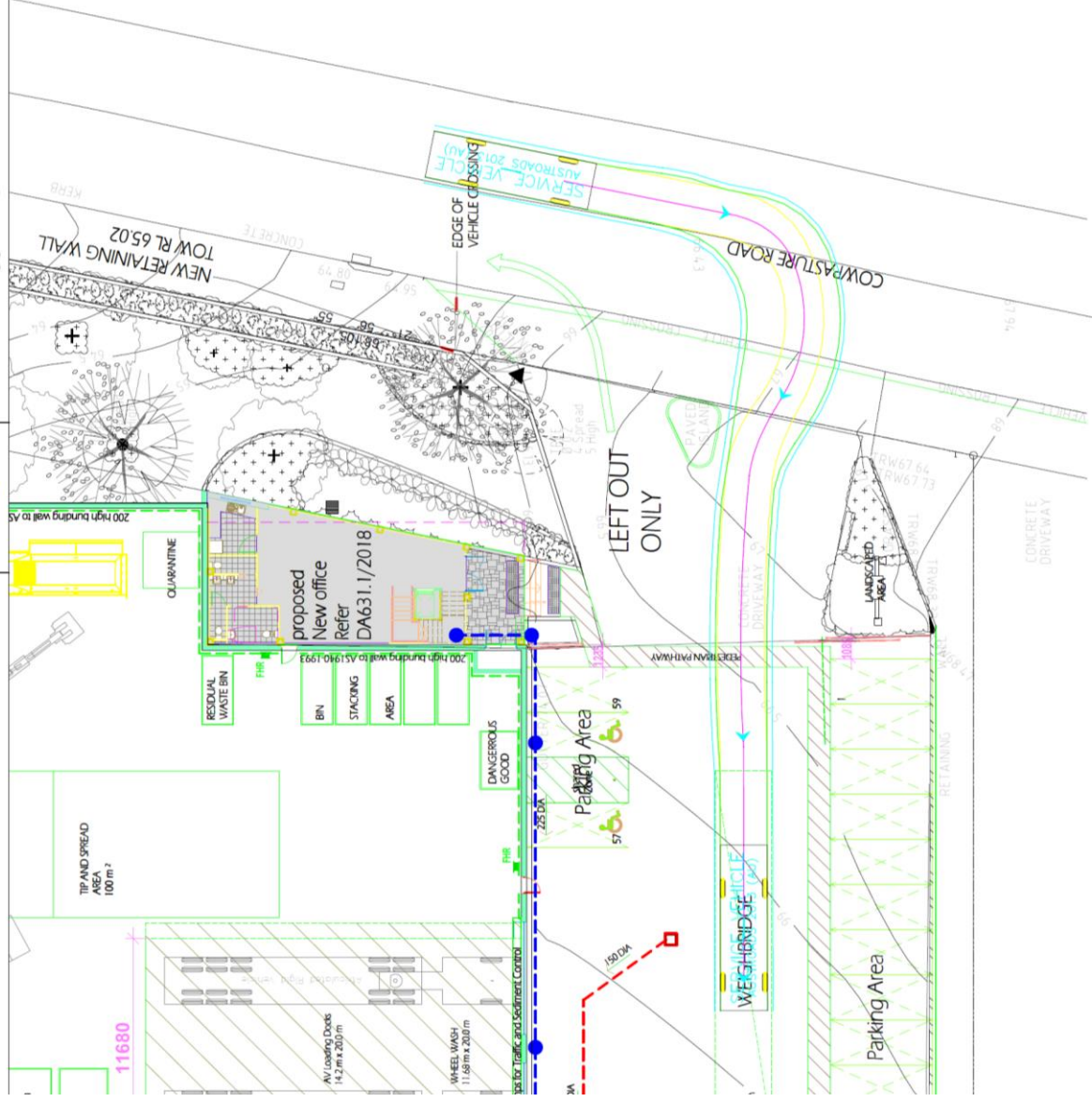
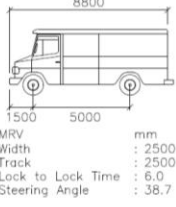
Plan prepared by EB Traffic Solutions Pty Ltd

Date: 13/09/2019

Sheet 07



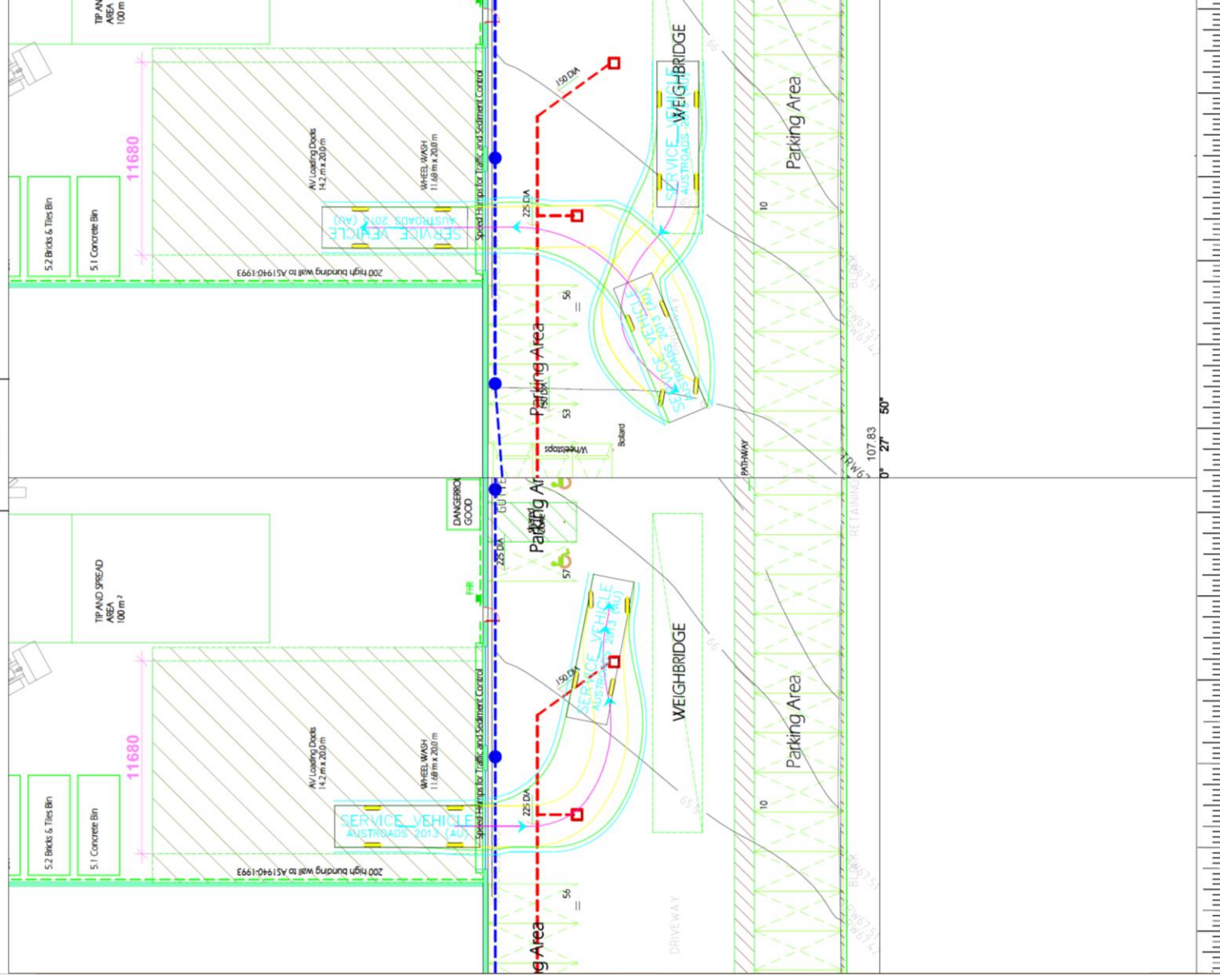
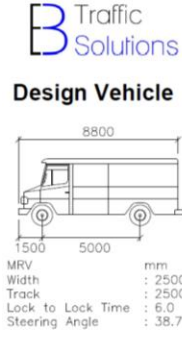
### Design Vehicle





115 - 117 Cowpasture Road, Wetherill Park (NSW)

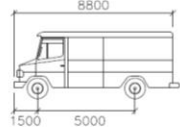
Scale 1:200 @ A3  
Swept Path Diagram (Rigid Truck)  
Plan prepared by EB Traffic Solutions Pty Ltd  
Date: 15/09/2019



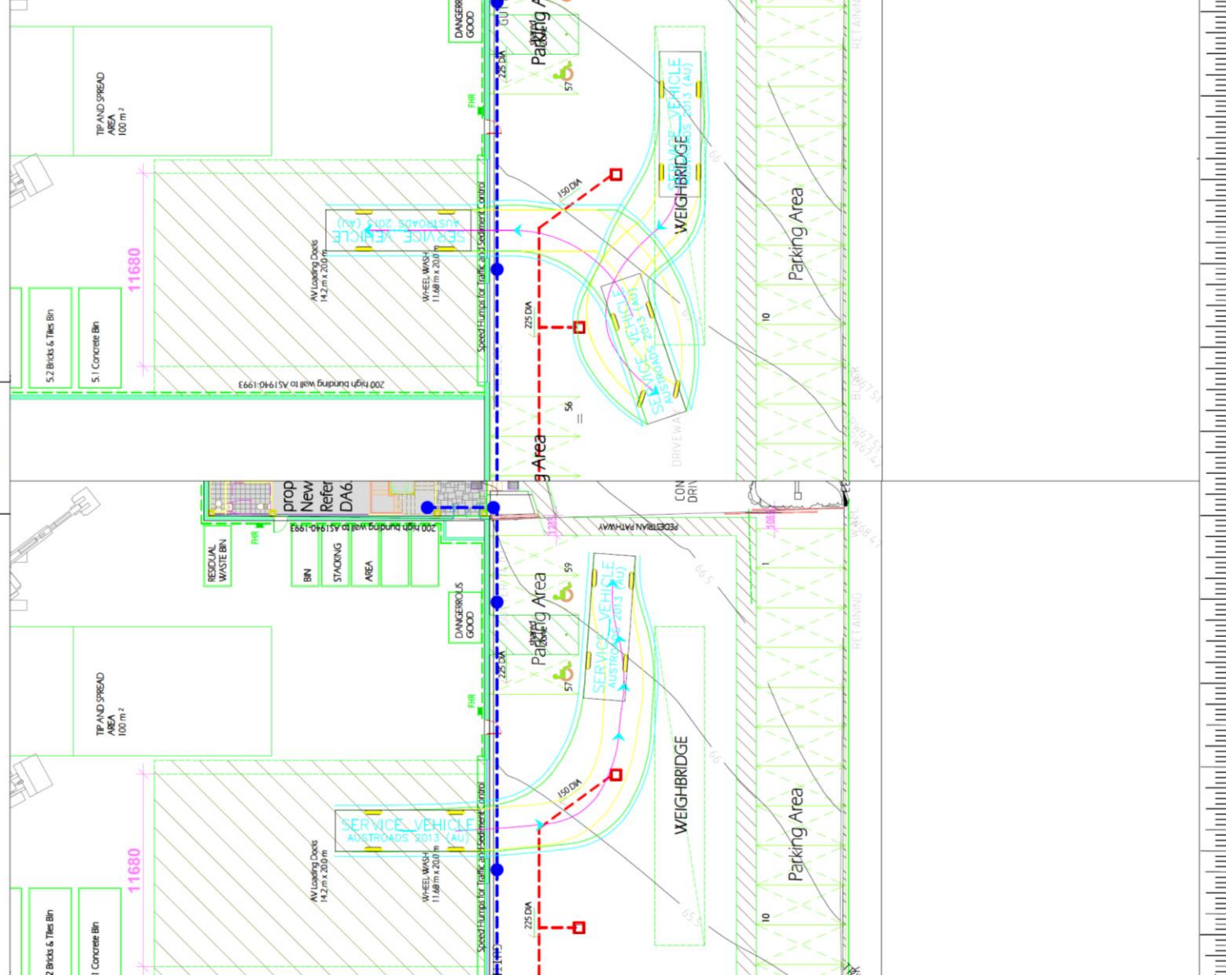


**B** Traffic Solutions

## Design Vehicle



MRV	mm
Width	: 2500
Track	: 2500
Lock to Lock Time	: 6.0
Steering Angle	: 38.7



**ATTACHMENT C**

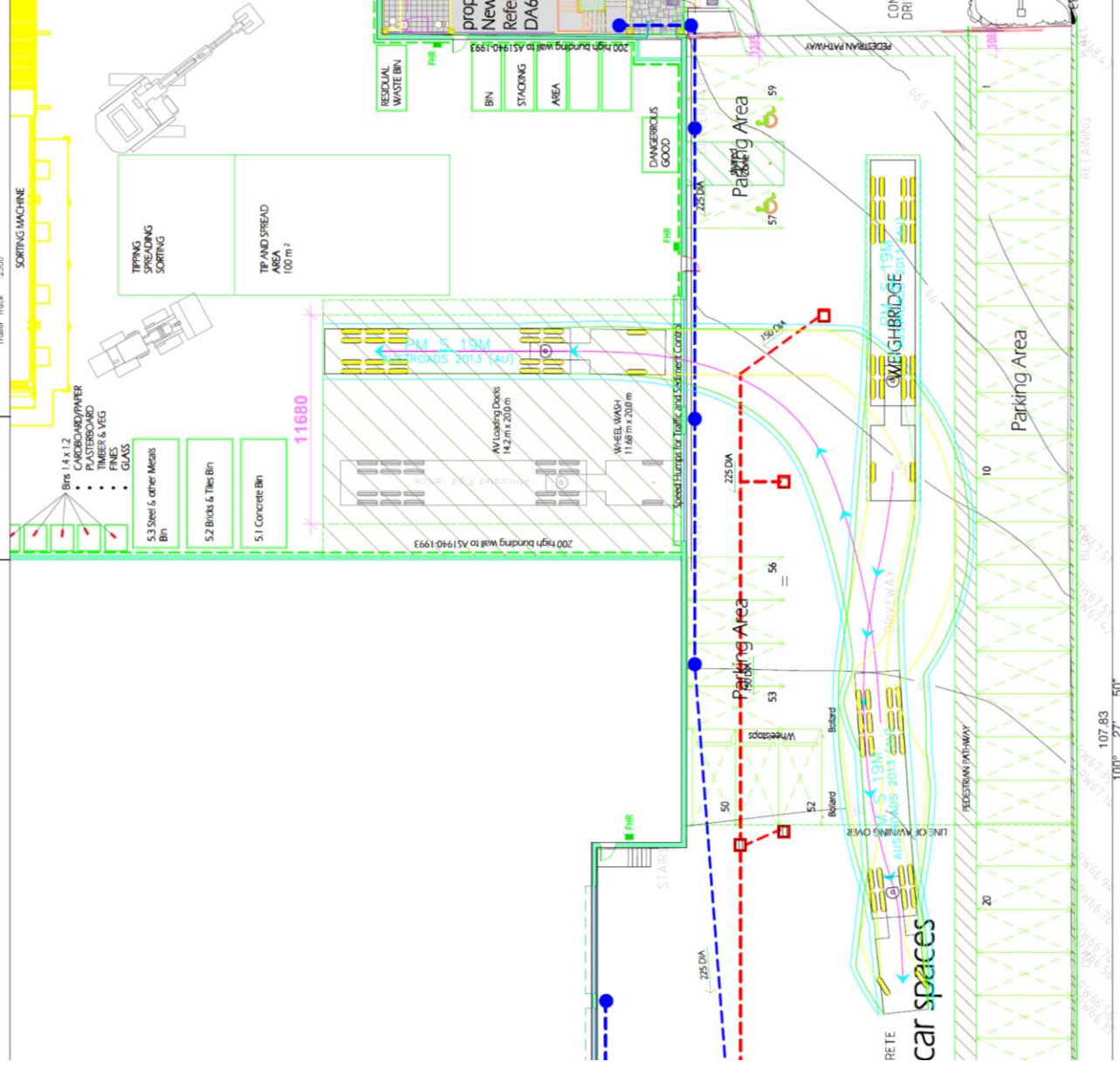
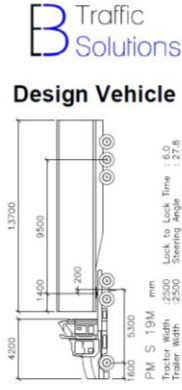
**SWEPT PATH ANALYSIS (19 M ARTICULATED TRUCK)**











115 - 117 Cowpasture Road, Wetherill Park (NSW)

Scale 1:200 @ A3

Swept Path Diagram (Articulated Truck)

Plan prepared by EB Traffic Solutions Pty Ltd

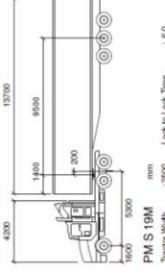
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Sheet 01



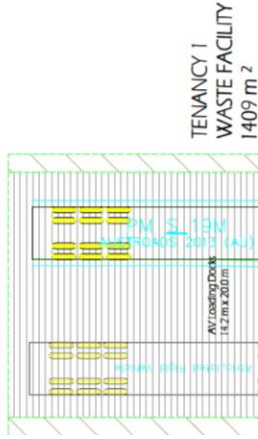
EB Traffic Solutions

Design Vehicle



# WASTE FACILITY SUBJECT TO SEPERATE DA APPLICATION (DA428.1/2018)

Office  
Total GFA = 275 m<sup>2</sup>  
DA 631.1/2018  
Refer detailed plan



TENANCY 1  
WASTE FACILITY  
1409 m<sup>2</sup>

