

Re: 102 Broomfield Street Cabramatta (Traffic)– Request for Information (RFI)

This letter contains information regarding the vehicle swept paths, traffic signal operations and vehicle manoeuvrability for the site at 102 Broomfield Street Cabramatta.

Traffic signals were initially proposed throughout the proposed development from ground level to basement 2. However, the architectural plans (refer to Appendix A) have been revised based on the recommendations by Councils during the consultation on 12th November (2:00pm to 3:00pm), which includes the following:

- Two way ramp from ground level to basement 1
- Traffic signals located on basement 1 and basement 2
- Waiting bay located on basement 1
- One way ramp from basement 1 to basement 2
- Additional signages and line marking to be installed.

1.1. Vehicle Swept Paths

Before reporting on the vehicle swept paths undertaken using a computer program called AUTOTURN, it is worth of note that Appendix B4.4 of the Australian Standard 2890.1 (2004) Off Street Parking Spaces indicates "Drivers can manoeuvre vehicles within smaller spaces than swept turning paths would suggest. Wider parking spaces require slightly smaller aisle width."

The vehicle swept paths shown are therefore conservative and vehicles may be able to undertake tighter manoeuvres than those shown on the vehicle swept path diagrams.

The revised vehicle swept paths have been attached in Appendix B.

1.2. Vehicle movements and traffic signal operations

1.2.1. Vehicles located on basement 1

The vehicle operation is as follows:

1. Inbound vehicles will enter the site via Broomfield Street
2. Inbound vehicles will be able to access basement level 1 (no traffic signals will be required to access basement 1)
3. In the reverse direction, an outbound vehicle would be able to access the ramp to ground level
4. Outbound vehicle will exit the site via Broomfield Street.

To reduce traffic conflicts on basement level 1, the use of convex mirror and signages will be installed to improve the driver's visibility / awareness and minimise traffic conflicts. A plan of management will be prepared to outline the vehicle operations of the site.

1.2.2. Vehicles located on basement 2

The proposed access is a 6.0 metres wide ramp allowing for two vehicles to pass between ground level and basement 1. However, due to the constraints of the site, inbound vehicles wanting to access basement 2 will have to enter the opposing lane to make the turn (refer to vehicle swept paths in Appendix B).

The vehicle operation is as follows:

1. Inbound vehicles will enter the site via Broomfield Street
2. In order to access the ramp to basement 2, the inbound vehicle will need to intrude into the opposing lane
3. The inbound vehicle will have 'priority entry'. This entails a continuous green signal on basement 1, and basement 2 will have the 'red' light
4. For an outbound vehicle on basement 2. The driver would activate the traffic lights via a sensor or push button remote. The traffic signals would then be activated 'red' on basement 1 to aware drivers that a vehicle is exiting from basement 2. If there is an inbound vehicle wanting to go to basement 2. The inbound vehicle will have to wait in the waiting area (in Basement 1) to allow the outbound vehicle to pass.

In addition, the use of convex mirror and signages will be installed to improve the driver's visibility / awareness and minimise traffic conflicts. A plan of management will be prepared to outline the vehicle operations of the site.

We trust this assists in addressing the comment raised by Council. Should you require any additional information, please feel free to contact me on 0407 577 276.

Yours sincerely,

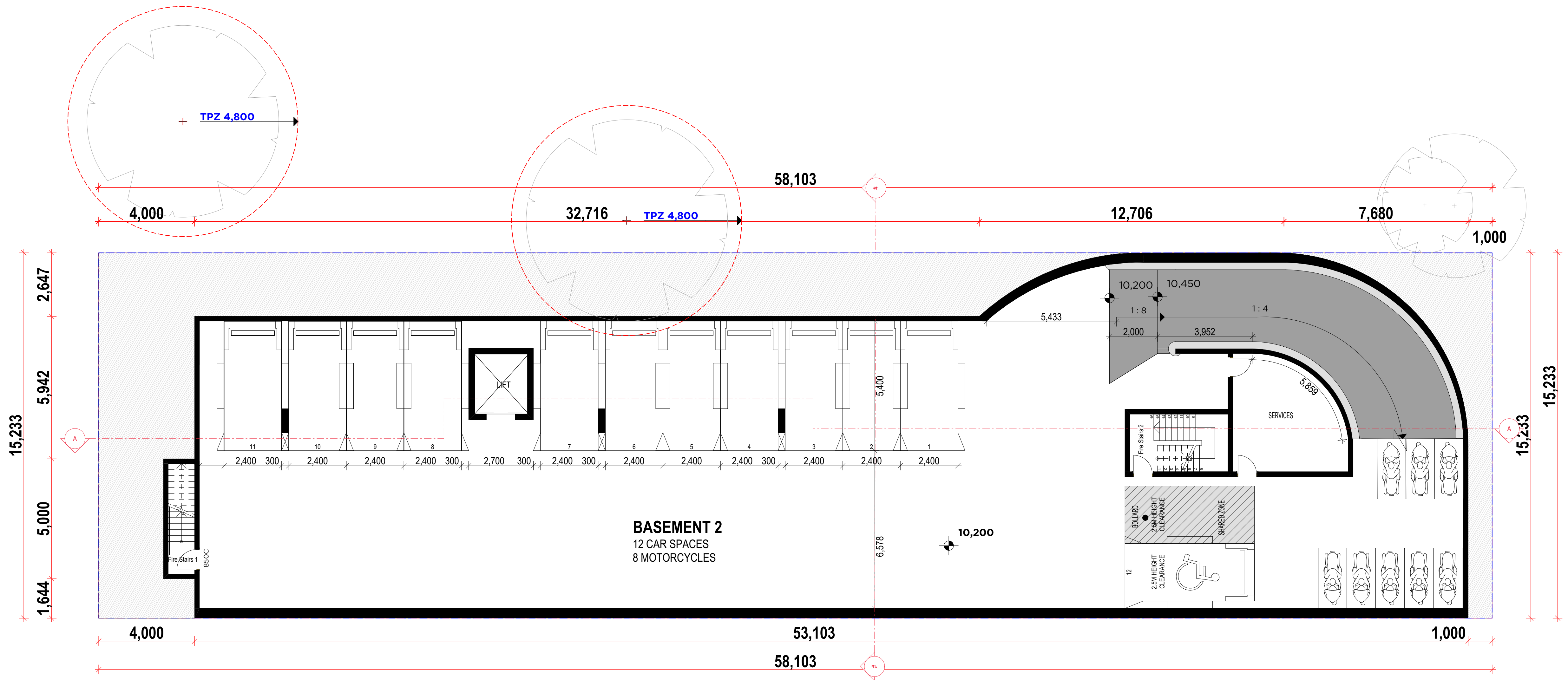
A handwritten signature in blue ink, appearing to read 'K. Kirk'.

Traffic Engineer

E kirk@onetrafficconsulting.com

M 0407 577 276

Appendix A Architectural Plans



D	GENERAL REVISION	24/11/2020
C	GENERAL REVISION	04/11/2020
B	GENERAL REVISION	09/06/2020
A	DA SUBMISSION	09/07/2019

Rev	Description	Date	App'd
Project			

PROPOSED BOARDING HOUSE
102 BROOMFIELD ST CABRAMATTA



Nominated Architects:
Ziad Boumelhem Reg no 8008
Youssef El Khawaja Reg no 8933
Nicholas Toubia Reg no 9336

Drawing Title

BASEMENT 2		
Date of Issue	Checked	Approved
26/11/2020	JE	TJ
Scale		
@A1 Sheet Size		
50mm on original		
Project Number		
19-029		
Drawing Number Revision		
DA2001 D		
Status		
DA SUBMISSION		

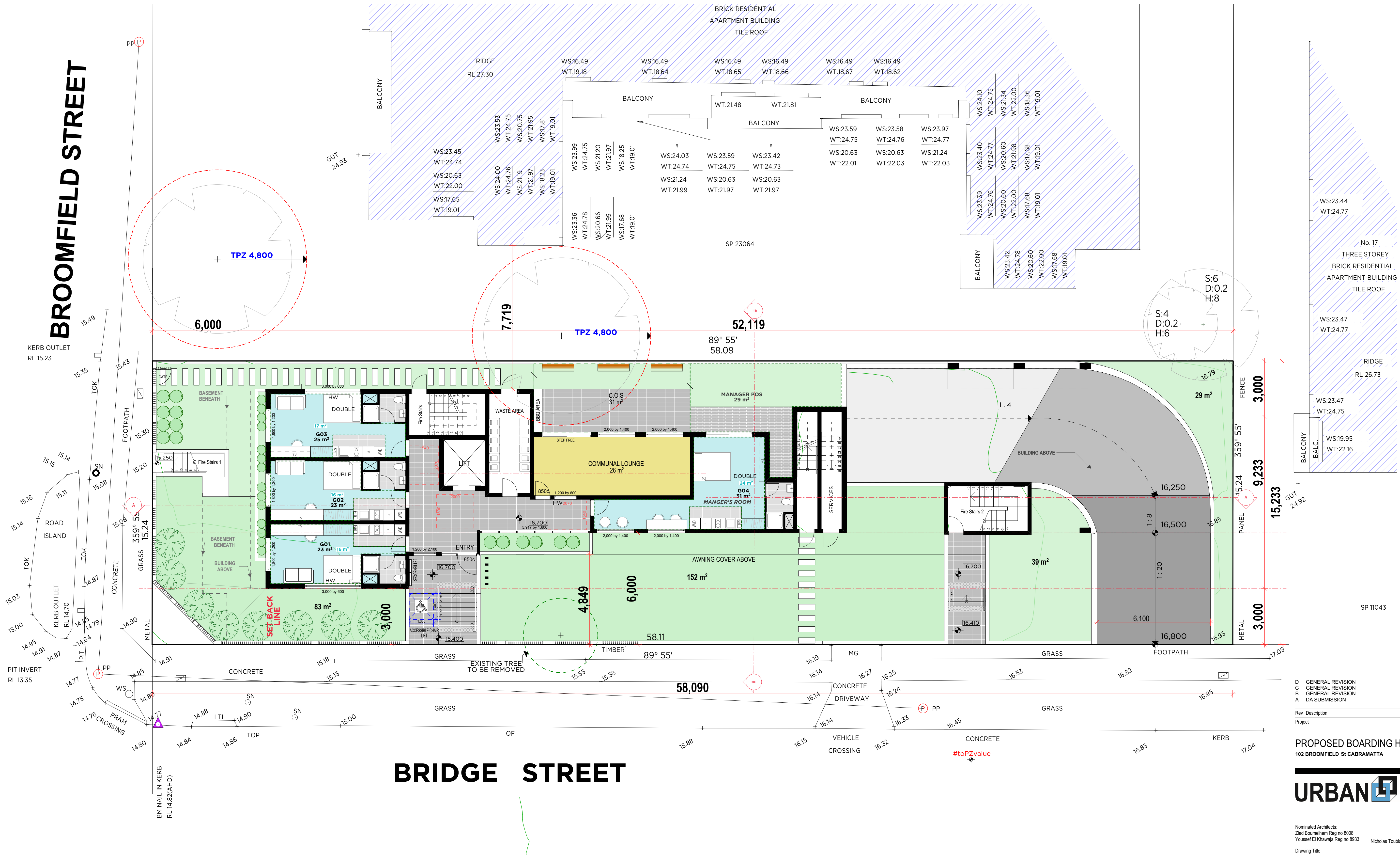
102 Broomfield St, Cabramatta, NSW 2161 2 parcels combined. (Shaded in Green) 102 Broomfield St, Cabramatta, NSW 2161 2 parcels combined. (Shaded in Green) 102 Broomfield St, Cabramatta, NSW 2161 2 parcels combined. (Shaded in Green)

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102 BROOMFIELD St CABRAMATTA

Nominated Architects:
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Youssef El Khawaja Reg no 8933
Nicholas Toubia Reg no 9336

BASEMENT 1			
Date of issue 26/11/2020	Checked JE	Approved TJ	
Scale			
AS SHOWN			
@A1 Sheet Size		50mm on original	
Project Number 19-029		Drawing Number Revision DA2002 D	
Status DA SUBMISSION			



D	GENERAL REVISION	24/11/2020
C	GENERAL REVISION	04/11/2020
B	GENERAL REVISION	09/06/2020
A	DA SUBMISSION	09/07/2019

Rev	Description	Date	App'd
Project			

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Nicholas Toubia Reg no 9336

Drawing Title

GROUND FLOOR
Date of Issue 26/11/2020
Checked JE
Approved TJ

Scale
AS SHOWN
@A1 Sheet Size

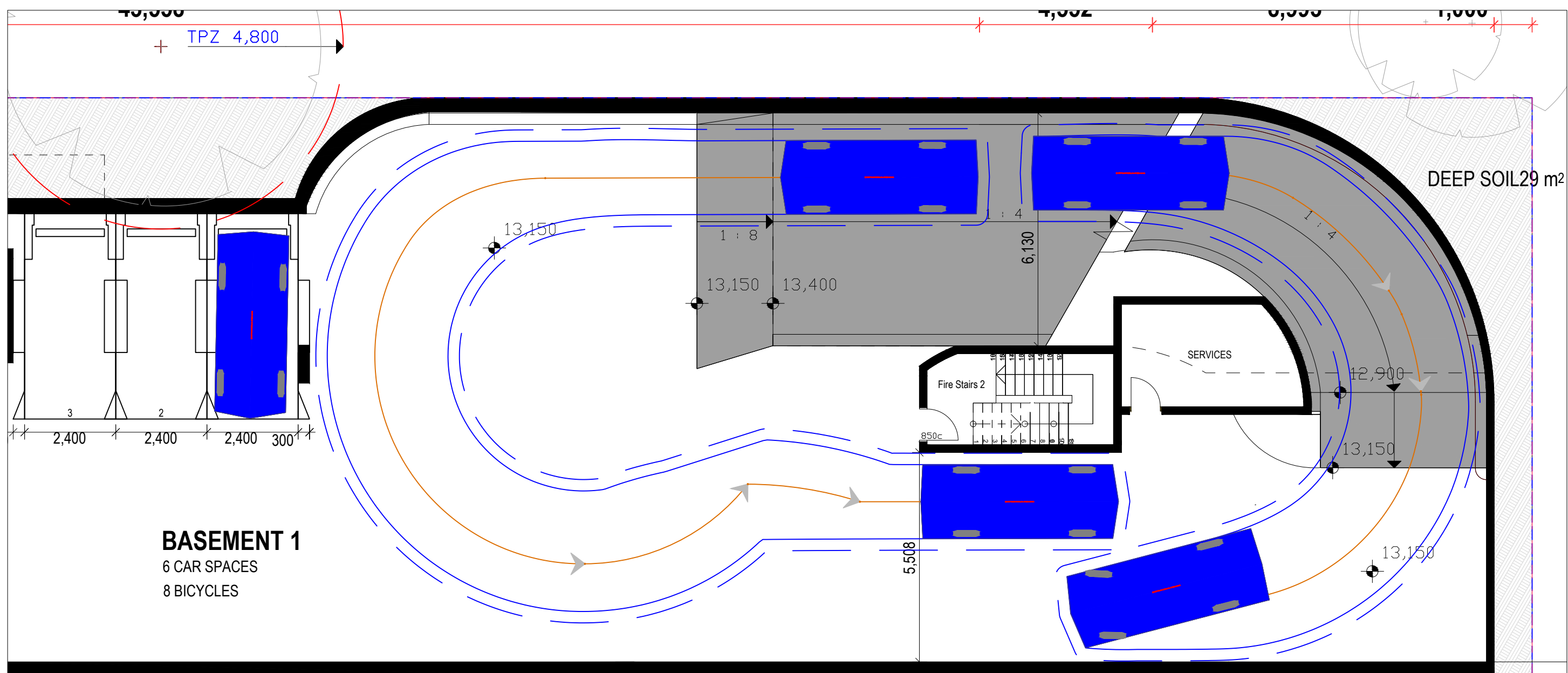
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Status
DA SUBMISSION

Drawing Number Revision
DA2003 D

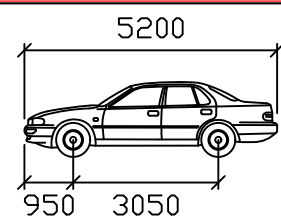
GROUND FLOOR PLAN

1:100

Appendix B Vehicle Swept Path Analysis



BASEMENT 1
6 CAR SPACES
8 BICYCLES



B99

Width : 1940
Track : 1840
Lock to Lock Time: 6.0
Steering Angle : 33.9

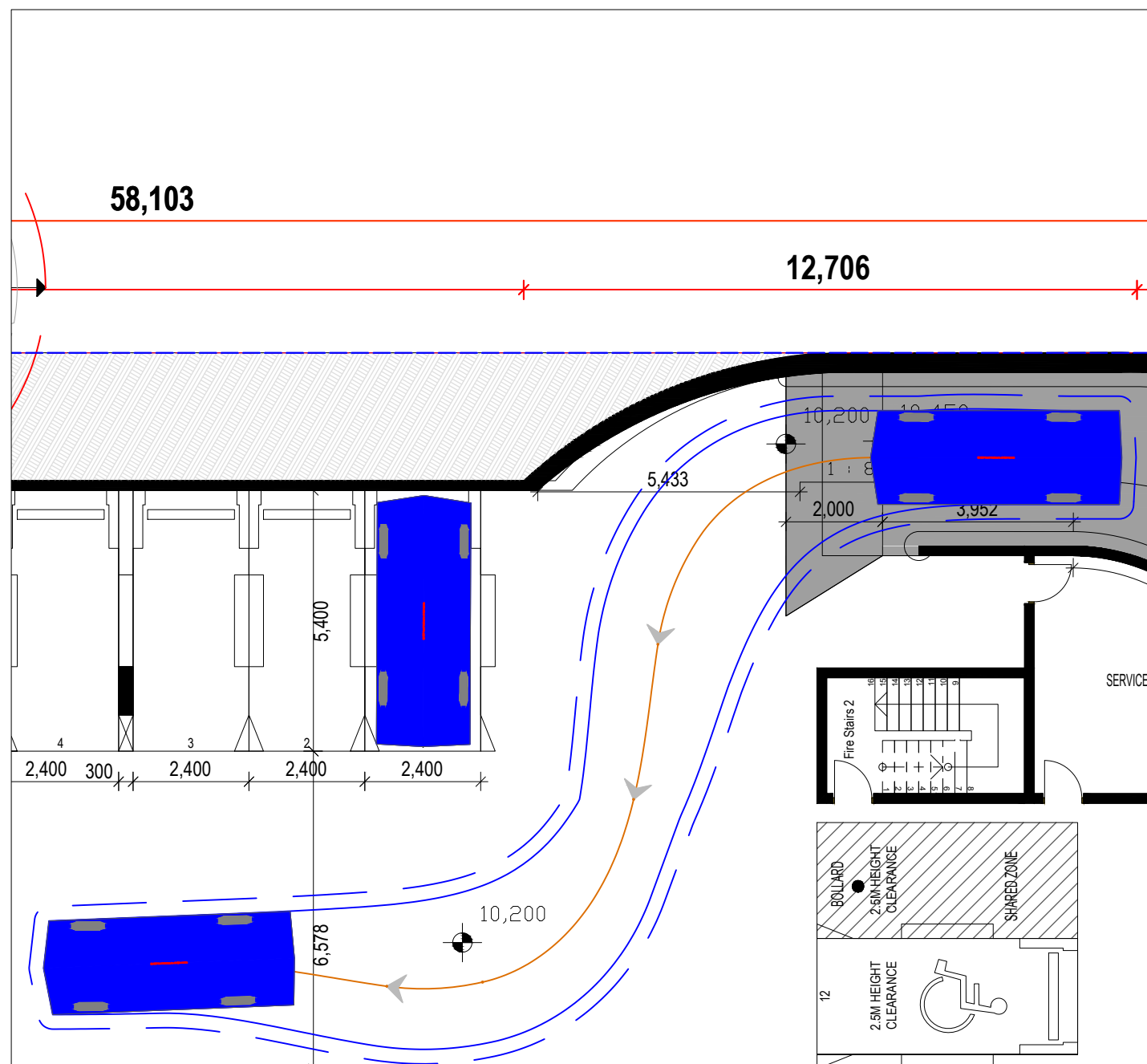
Note: Proposed Car Parking layout based on discussion with Fairfield City Council.

Swept Path Assessment - Basement Level 1
B99 Entry/B85 Exit movements

ONE
TRAFFIC

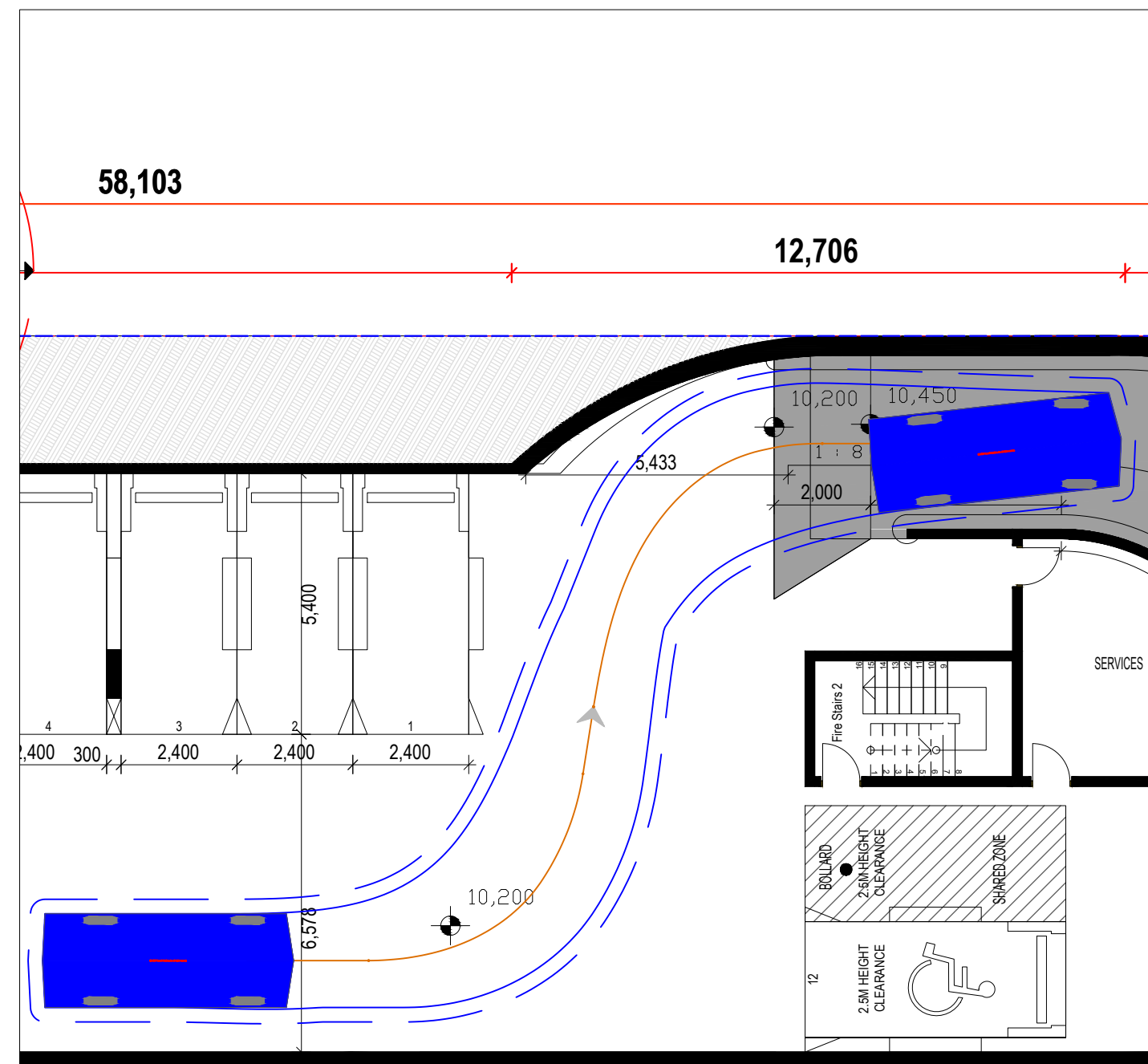
102 Broomfield St, Cabramatta

Drawing Reference:
024 201121



B99

Width	: 1940
Track	: 1840
Lock to Lock Time	: 6.0
Steering Angle	: 33.9



58,103

58,103

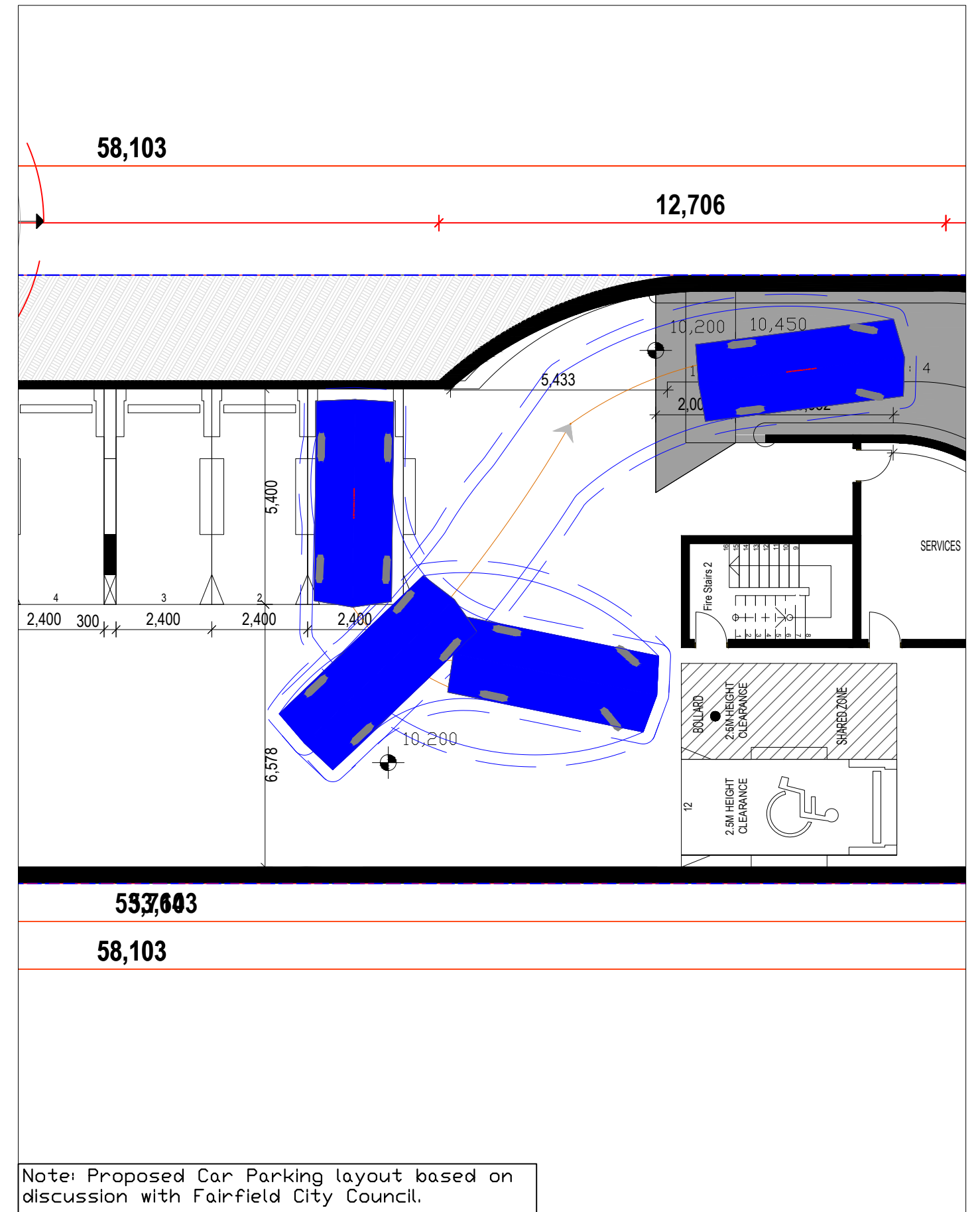
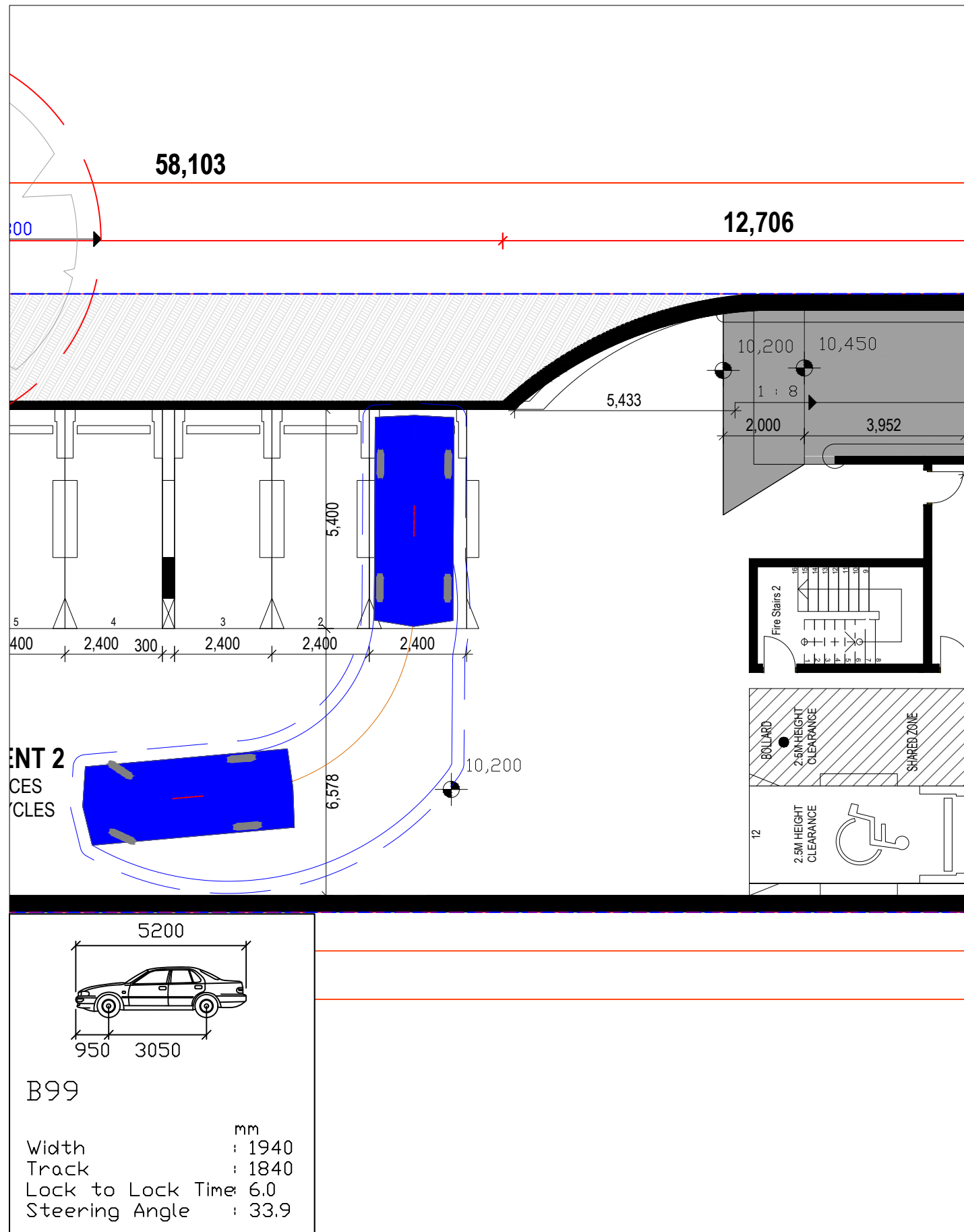
Note: Proposed Car Parking layout based on discussion with Fairfield City Council.

Swept Path Assessment - Basement Level 2
B99 Entry/Exit movements



102 Broomfield St, Cabramatta

Drawing Reference:
024 201126

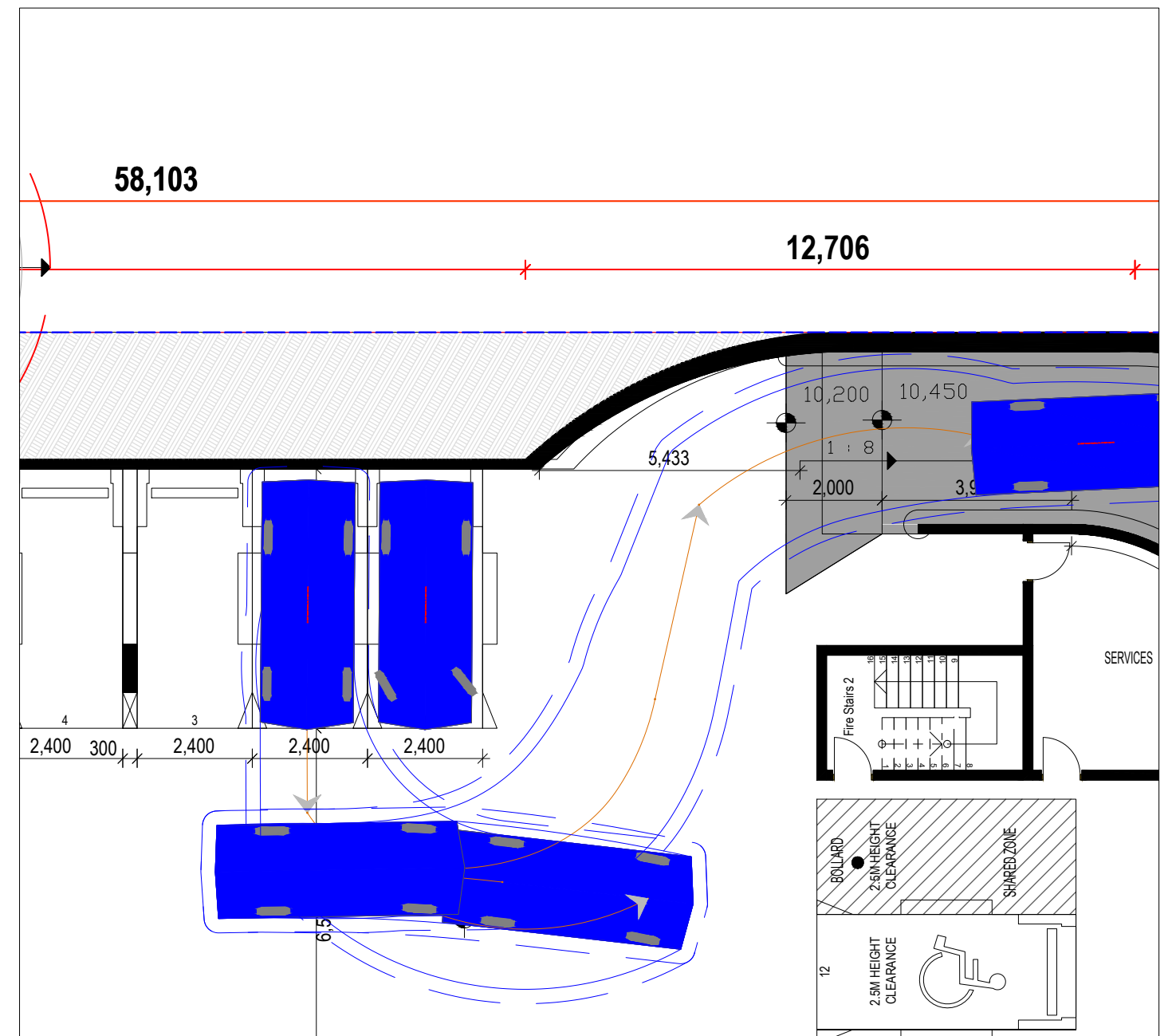
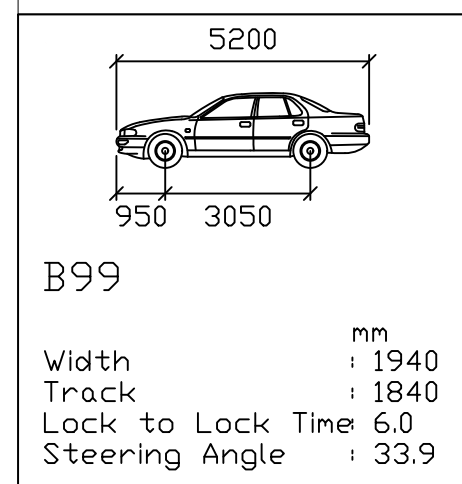
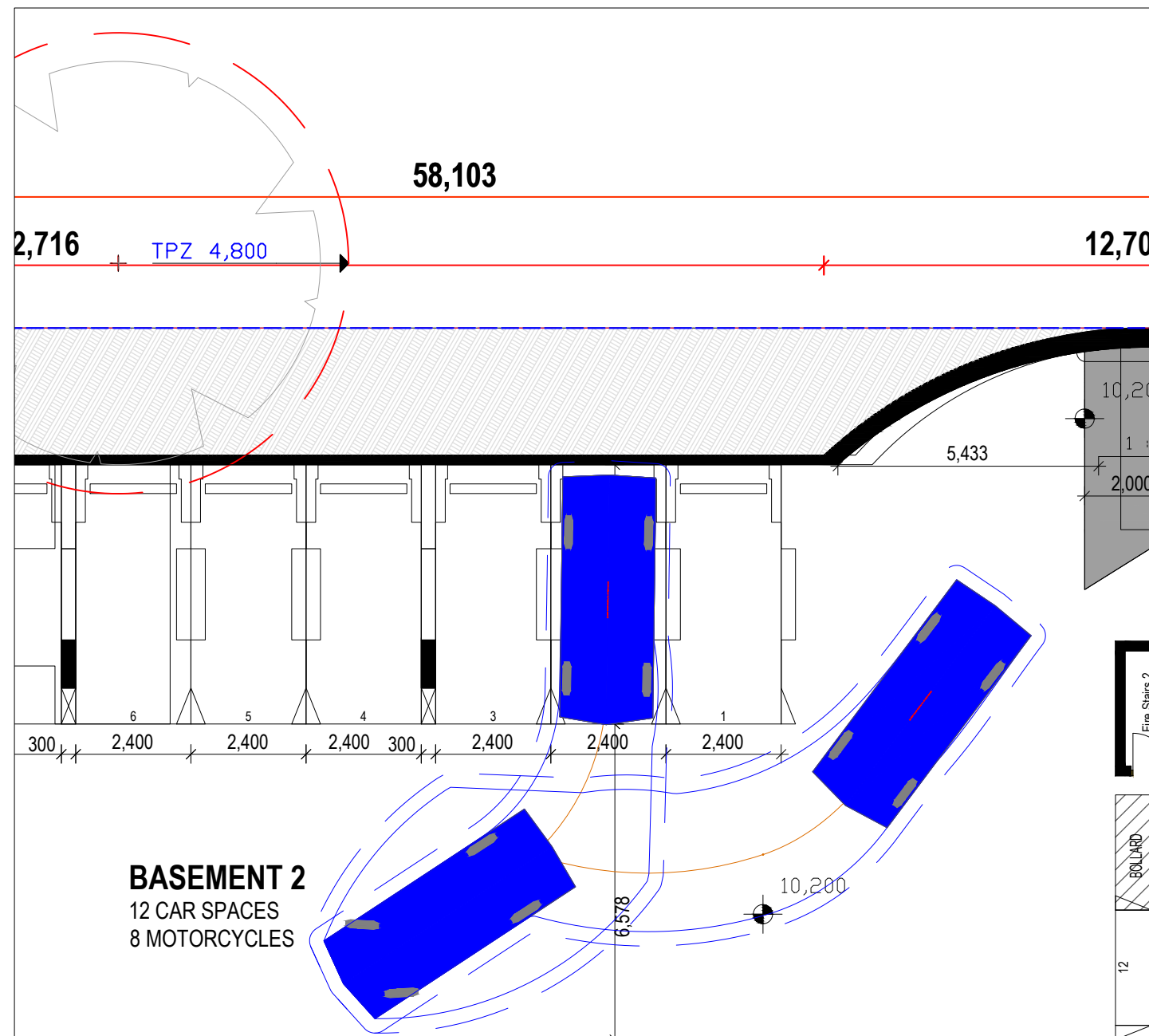


Swept Path Assessment - Basement Level 2
B99 Entry/Exit movements



102 Broomfield St, Cabramatta

Drawing Reference:
024 201122



537,603
58,103

Note: Proposed Car Parking layout based on discussion with Fairfield City Council.

Swept Path Assessment - Basement Level 2
B99 Entry/Exit movements

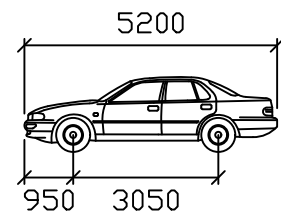
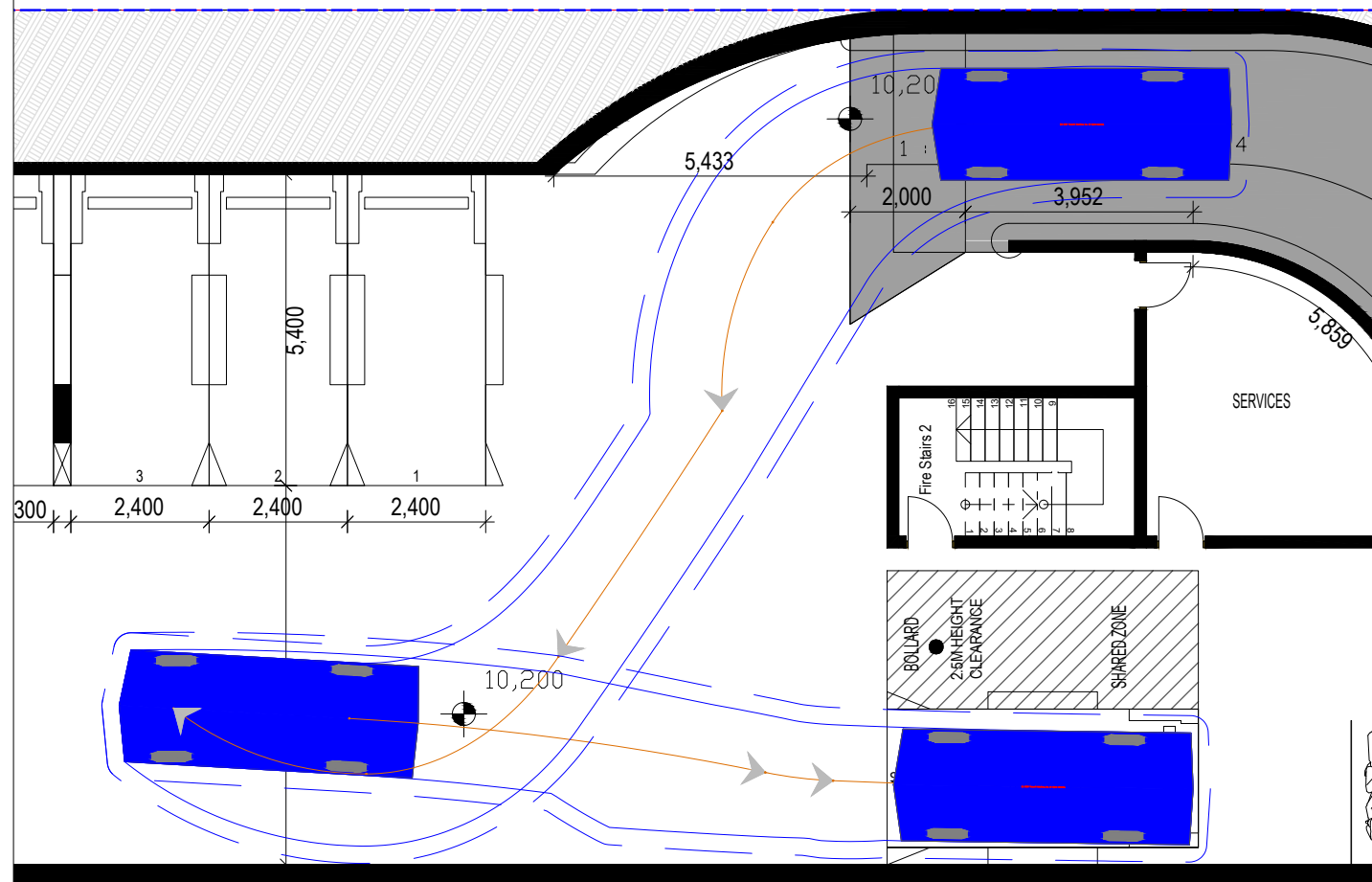


102 Broomfield St, Cabramatta

Drawing Reference:
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12,706

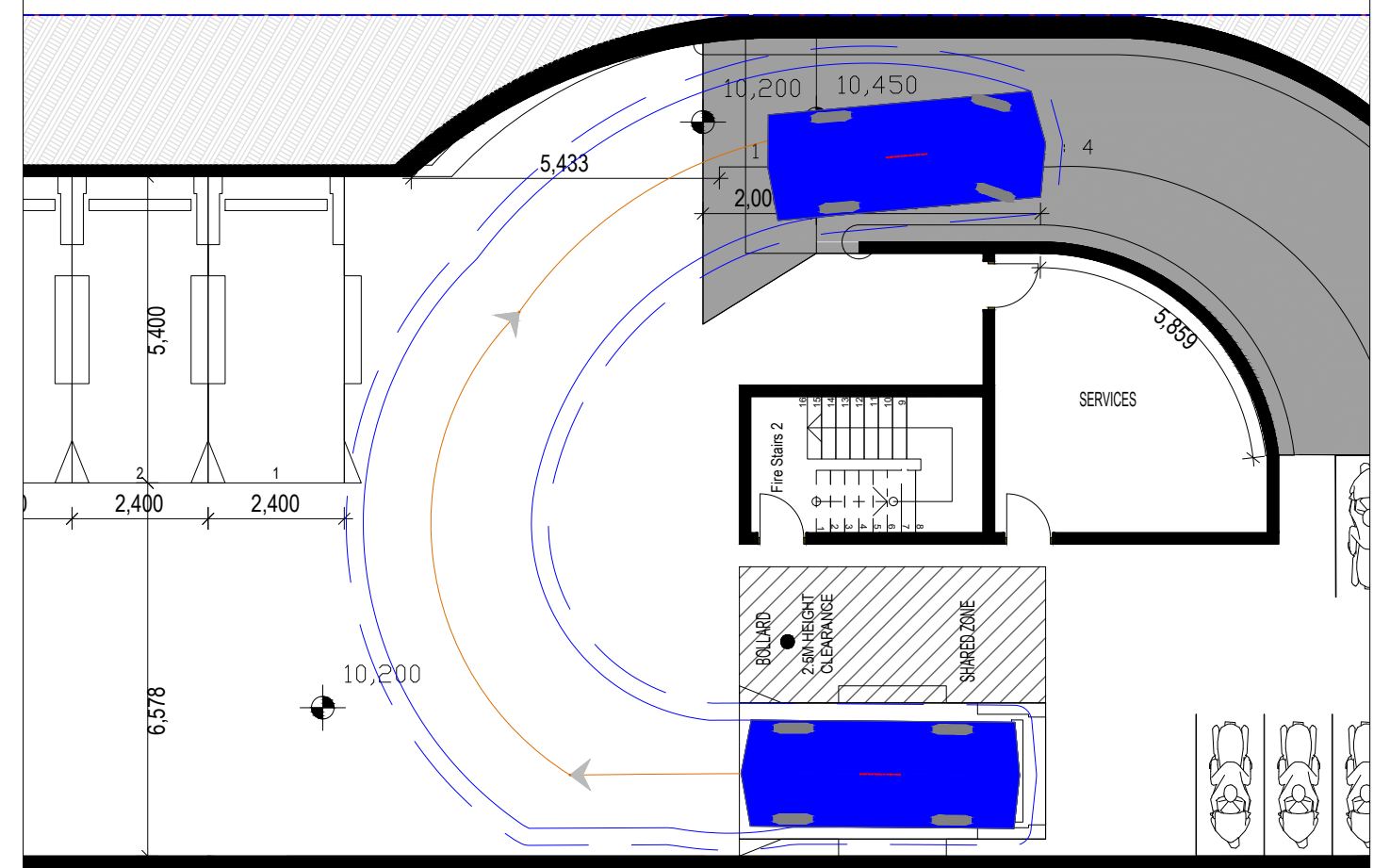


B99

Width : 1940
Track : 1840
Lock to Lock Time : 6.0
Steering Angle : 33.9

12,706

7,680



93

Note: Proposed Car Parking layout based on discussion with Fairfield City Council.

Swept Path Assessment - Basement Level 2
B99 Entry/Exit movements

ONE
TRAFFIC

102 Broomfield St, Cabramatta

Drawing Reference:
024 201126

