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LS LANDSCAPING. REFER TO LANDSCAPE ARCHITECT DRAWINGS FOR DETAIL. WM-E WATER METER, EXISTING

REAL PROPERTY DESCRIPTION LOT 38 ON RP896886 MAREEBA SHIRE

SITE AREA: 1,012m²

TOTAL UNITS: 6 (2 STOREY)

CALCULATIONS:

	<u>UNIT 0</u>	<u>1 UNIT 02</u>	<u>UNIT 03</u>	<u>UNIT 04</u>	<u>UNIT 05</u>	<u>UNIT 06</u>
	114.2m ²	² 136.26m²	141.32m²	114.2m²	136.26m²	136.26m²
- GROUND FLOOR:	57.1m ²	² 68.13m²	70.66m²	57.1m²	68.13m²	68.13m²
VING AREA:	13.04m ²	² 19.99m²	22.53m²	13.04m²	19.99m²	19.99m²
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Traffic Technical Memorandum

То	Tony Ran C\- U&i Town Planning C\- U&i Town Planning	Date	2 April 2024		
Prepared by	Casey Schackow, Velocity, Director	Approved by	Harj Singh, Traffic Engineering Advisor (RPEQ 22364)		
Location	38 Doyle Street, Mareeba				
Status	Final	Attachments	Appendix A: Development Plans Appendix B: Swept Path Assessment		

1 Introduction

1.1 Overview

Velocity has been commissioned by Tony Ran C\- U&i Town Planning, to provide traffic advice in relation to the proposed townhouse development located at 38 Doyle Street, Mareeba. Specifically, our scope was only based around achieving a compliant and functional parking layout.

1.2 References

- Mareeba Shire Council, Mareeba Shire Planning Scheme, 2016 (MSPLS)
- Mareeba Shire Council, Parking and Access Code (PAC)
- AS2890.1 Australian Standards (AS) Parking Facilities Part 1: Off Street Car Parking (AS2890.1)
- AS2890.2 Parking Facilities Part 2: Off-Street Commercial Vehicle Facilities, 2002 (AS2890.2)

1.3 Limitations

This traffic report was prepared with the usual care and diligence of the consulting profession. It follows accepted traffic engineering practices and standards that were in place at the time of the assessment. However, Velocity cannot be held responsible for any changes to project planning or road conditions that may happen after the assessment is completed.

2 Existing Conditions

2.1 Site Location

The development site is located at 38 Doyle Street, Mareeba and is bounded by Doyle Street to the east. The site is currently a vacant block.

The site is identified within Planning Scheme as a Medium Density Residential zone and is surrounded by similar zones in all directions.

3 Proposed Development

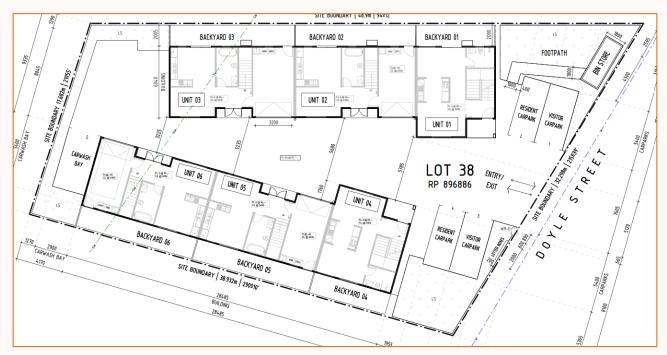
3.1 Proposed Yield

The development proposes to provide 6 townhouse units each with 2 bedrooms. The development yield is outlined in Table 3-1 and the proposed plans are illustrated in Figure 3-1. These plans are also attached at **Appendix A**.

Table 3-1 Total Development Yield

Land use	Yield
Multiple Dwelling (2 bedrooms)	6 townhouses

Figure 3-1 Proposed Development Layout



Source: Quorum Studios, Site Plan, FA100, P3



3.2 Car Parking

3.2.1 Parking Requirements

In accordance with the *PAC*, the car parking requirements have been summarised in Table 3-2.

Table 3-2 Car Parking Requirements

Land use	Yield	Car Parking Rate	Car Parking Required
Multiple Dwelling	6 townhouses	l space per dwelling, l vehicle wash bay and 0.25 spaces per dwelling for visitors.	6 resident spaces + 1 vehicle wash bay + 1.5 spaces per dwelling for visitors.
TOTAL			6 resident spaces + 1 vehicle wash bay + 1.5 spaces per dwelling for visitors.

As shown in Table 3-2, the proposed development requires a total of 6 parking spaces for residents, 1 dedicated vehicle wash down bay and 2 visitor parking bays.

3.2.2 Parking Compliance

The development proposes 6 resident parking bays, 4 located within garages and 2 adjacent the specific unit. A dedicated wash bay and 2 visitor parking bays have also been provided. As such, the minimum parking requirements have been provided.

3.2.3 Carpark Design

Velocity has completed a comprehensive design review of the parking layout for the proposed development. The car park design compliance is outlined in Table 3-3.

Table 3-3 Car Park Design Compliance

Design Criteria	AS2890/ MSC Reqs.	Proposed Design	Compliance				
Visitor Parking Areas							
Bay length	5.4m	5.4m	✓				
Bay width	2.6m	2.6m	✓				
Aisle Width	6.2m	Min. 7.7m	✓				
Resident Outdoor Parking Areas							
Bay length	5.4m	5.4m	✓				



Bay width	2.4m	2.4m	✓			
Aisle Width	5.8m	Min. 6.2m	✓			
Car Wash Bay Width (adjacent wall)	2.4m + 0.3m 2.9m		✓			
Garages						
Garage Length (internal)	6m	6m	✓			
Garage Width (internal)	3.2m	Min. 3.2m	✓			
Garage Width (door opening)	2.7m	Min. 2.8m	✓			
Aisle Width Adjacent Garage	5.8m	Min. 5.23m	×			

As such, the proposed car park design satisfies the minimum requirements with the exception of the aisle width adjacent the garage of Unit 3.

However, to ensure the B99 design vehicle is able to safely and effectively manoeuvre into/out of this garage, the width of the opening and internal width have been increased to 3.2m and 3.6m respectively.

3.2.4 Car Parking Swept Paths

To confirm the adequacy of the Unit 3 garage parking space, a swept path assessment has been conducted to determine if a B99 vehicle is able to safely enter and exit. A swept path assessment has also been undertaken for the other units with garages to further show the adequacy of the design even though these spaces are compliant with respect to AS2890.1. It is noted for residential spaces, AS2890.1 allows both three-point turn manoeuvring into and out of parking spaces.

The assessment determined that all garage spaces are able to be safely and efficiently manoeuvre into/out of by the B99 vehicle. These swept paths are attached at **Appendix B**.



Summary 4

Findings for the development at 38 Doyle Street, Mareeba are as follows:

ltem	Findings	
Existing Conditions	The site is a Medium Density Residential zone and is bound by Doyle Street to the east. The site is currently a vacant block.	
Proposed Development	The development proposes 6 townhouse units each with 2 bedrooms, accessed via a consolidated crossover	
Parking Provision	6 resident, 2 visitor and 1 dedicated wash bay has been proposed which is in accordance with the Planning Scheme and expected to be able to cater for the demands of the development	
Car Park Design	The car parking layout and design is compliant with the requirements of AS2890 with the exception of the aisle width adjacent the Unit 3 garage. A swept path assessment has been undertaken for the B99 vehicle which indicates the design vehicle can safely and effectively enter/exit each garage.	

Velocity is of the opinion the proposed is compliant with relevant codes and standards.

Author:

Casey Schackow

Director

Effective Date 2/04/2024

C. Schackow

Approved By:

Harj Singh Transport Advisor RPEQ 22364 Date Approved 2/04/2024

H.Singh

Traffic Technical Memorandum 38 Doyle Street, Mareeba



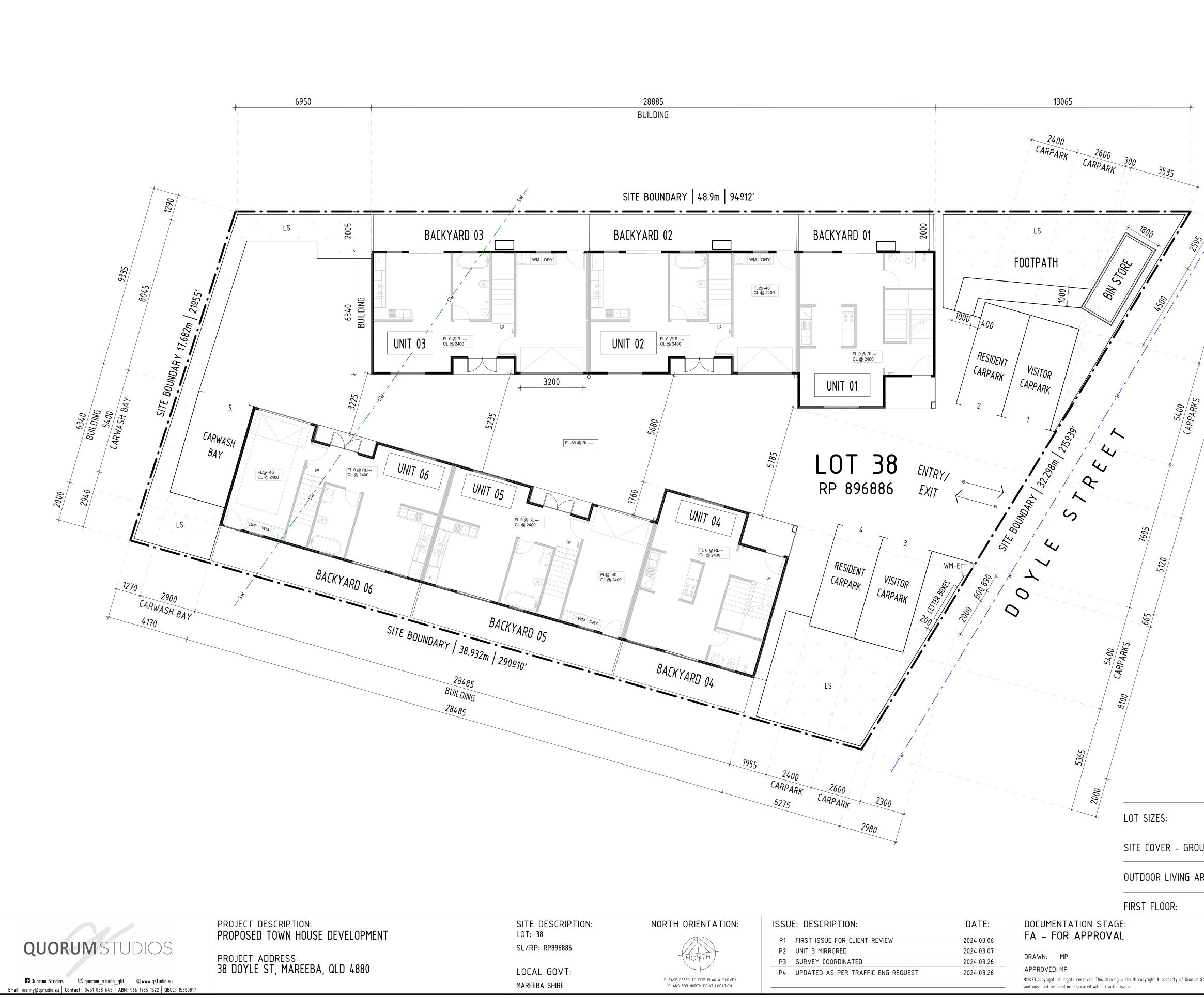




APPENDIX A

CONCEPT PLANS







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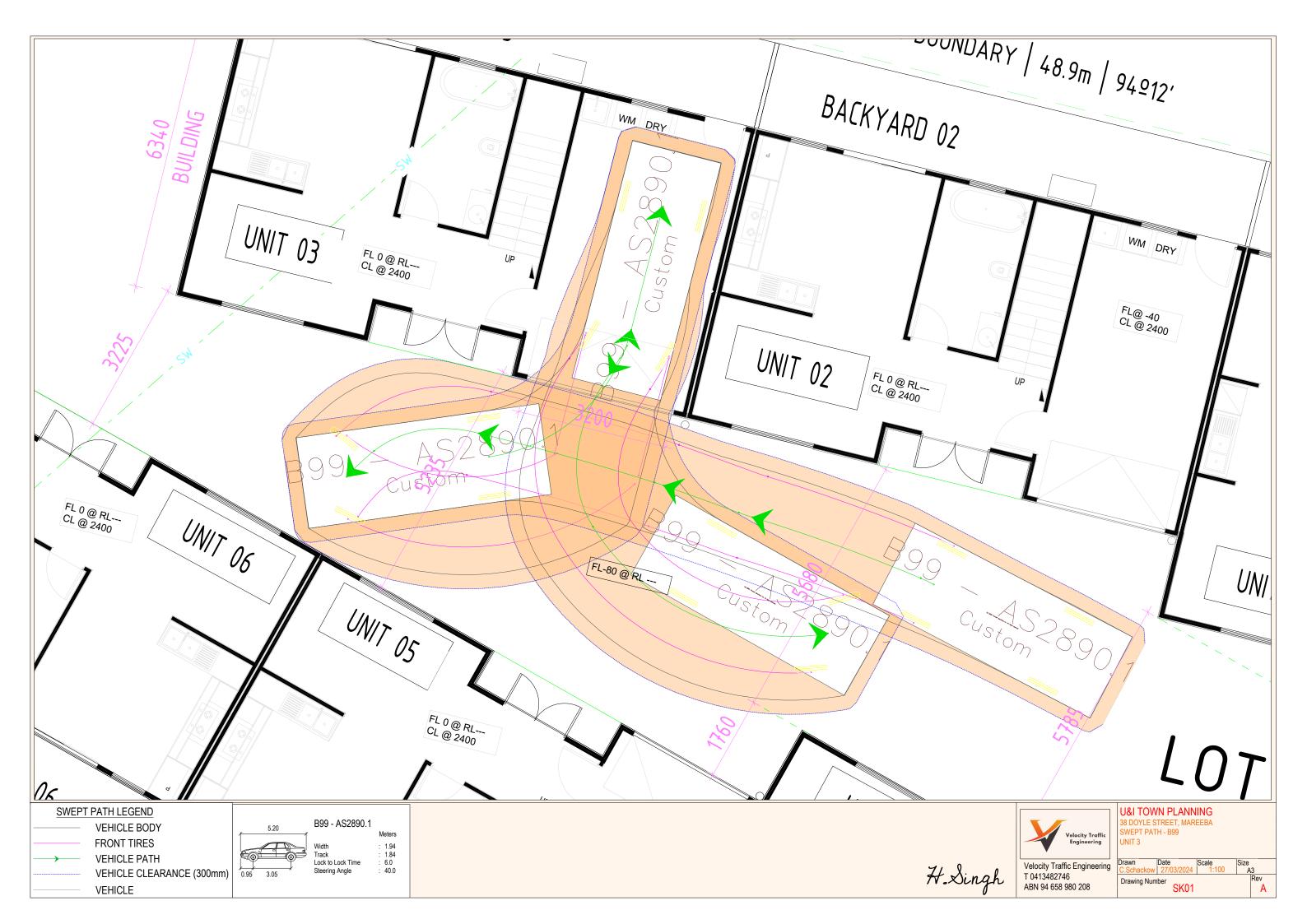
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APPENDIX B

SWEPT PATH ASSESSMENT

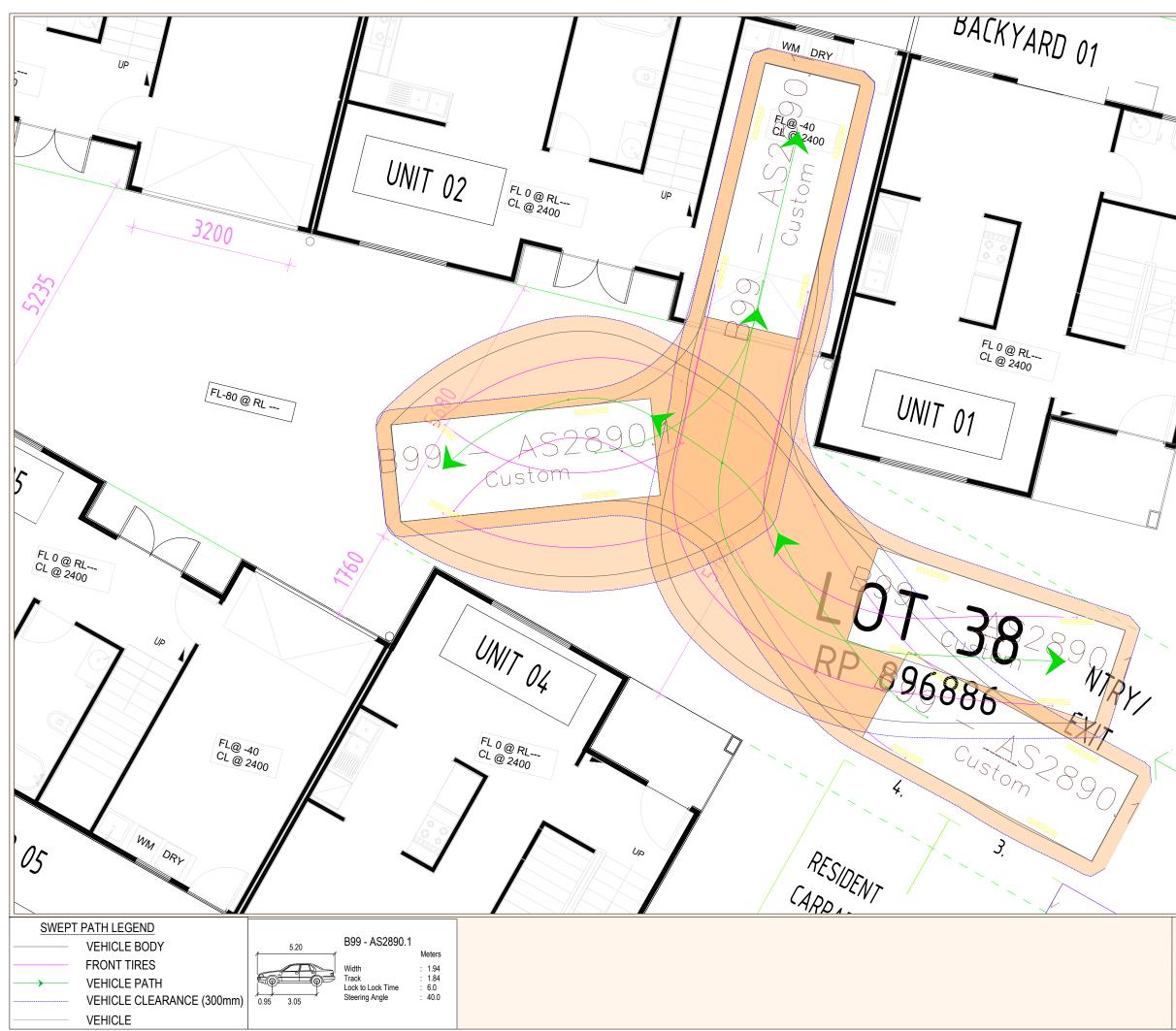








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