

DRIVEWAY AND CARPARK CERTIFICATION OF A PROPOSED AFFORDABLE HOUSING DEVELOPMENT

7-9 Wattle Avenue in Orange

Prepared for: SARM Architects

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1. INTRODUCTION

Motion Traffic Engineers was commissioned by SARM Architects to prepare a car parking certification report of a proposed affordable housing development at 7-9 Wattle Avenue Orange.

Vehicle access and egress to the ground level car parking areas is via Wattle Avenue and is located to the rear of the property.

All cars can enter and leave in a forward manner.

Reference is made to AS2890.1 (2004) and AS2890.6 (2009) and Council's Development Control Plan for compliance.

2. DRIVEWAY

The details of the driveway/ramp from Wattle Avenue to the ground level parking area is as follows from the perspective of the inbound movement for descriptive purposes only:

- The width of the driveway is 3.2 metres wide at the property line and narrows down to 3 metres
- The driveway has a gradient of less than 5 percent

3. CAR SPACES

The details of the car parking areas are as follows:

Ground Level

- The car parking aisle is 5.8 metres wide
- The disabled car space is 2.4 metres wide and 5.4 long
 - A shared zone with the same dimensions has been provided
- The 90-degree car spaces on the driveway are 2.4 metres wide minimum and 5.4 metres long
- Car space 5 is 3 metres wide and 5.4 metres long
- Blind aisle extension
- Wheel stops have been provided

4. SWEPT PATHS

A swept turning path analysis is performed using a B85 car (4.9 metres long), as set out in AS2890.1, to confirm that vehicle movements are adequate.

The following Swept Paths have been performed for seven of the eight car spaces.

All swept paths show overall adequate manoeuvrability.

The swept paths are presented in Appendix A.

5. SIGHT DISTANCE

The car driver's sight distance requirement to enter the external road is stated in Figure 3.2 of AS2890.1.

The sight distance varies according to the speed of the external road. Wattle Avenue has a speed limit of 50km/hr.

The minimum sight distance required is 45 metres. The minimum vehicle sight distance is met.

The pedestrian sight distance triangle is met as set out in Figure 3.3 of AS2890.1.

6. CONCLUSIONS AND RECOMMENDATIONS

The car parking area and driveway is overall compliant with Australian Standards and Council's DCP.

APPENDIX A – SWEPT PATHS



























