

Proposed Residential Development

**116-124 Restwell Street,  
Bankstown**

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**TRAFFIC AND PARKING ASSESSMENT REPORT**

23 March 2016

Ref 15691

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### Document Verification

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## **1. INTRODUCTION**

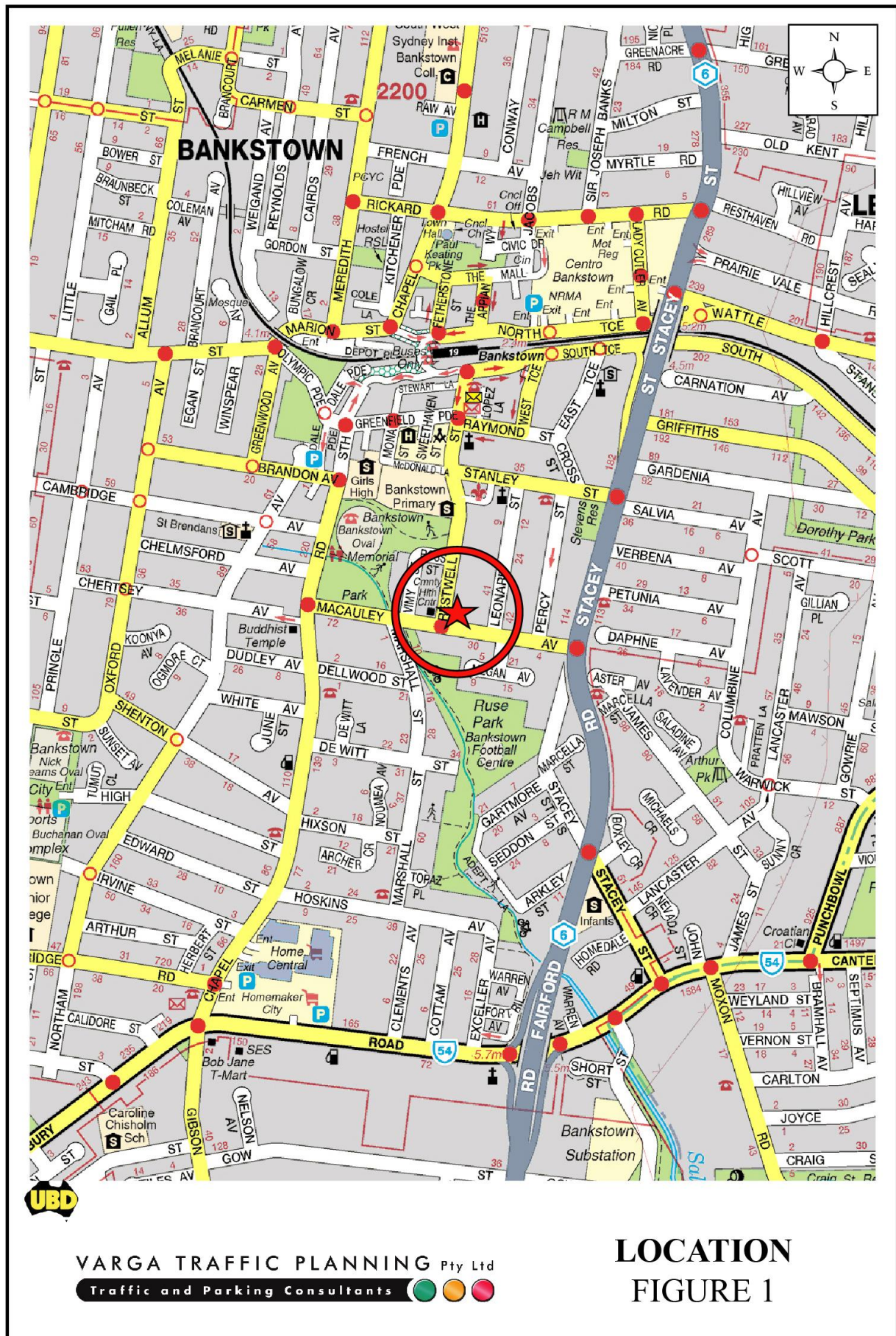
This report has been prepared to accompany a development application to Bankstown City Council for a residential development proposal to be located at 116-124 Restwell Street, Bankstown (Figures 1 and 2).

The proposed development involves the demolition of the five existing dwelling houses on the site to facilitate the construction of a new residential apartment development.

Off-street parking is to be provided in a new two-level basement car parking area for both residents and their visitors, in accordance with Council's requirements.

The purpose of this report is to assess the traffic and parking implications of the development proposal and to that end this report:

- describes the site and provides details of the development proposal
- reviews the road network in the vicinity of the site
- estimates the traffic generation potential of the development proposal
- assesses the traffic implications of the development proposal in terms of road network capacity
- reviews the geometric design features of the proposed car parking facilities for compliance with the relevant codes and standards
- assesses the adequacy and suitability of the quantum of off-street car parking provided on the site.







## 2. PROPOSED DEVELOPMENT

### Site

The subject site is located on the north-eastern corner of the Restwell Street and Macauley Avenue intersection. The site has street frontages approximately 64m in length Restwell Street, approximately 50m in length to Macauley Avenue and occupies a total area of approximately 3,194m<sup>2</sup>.

The subject site is currently occupied by five dwelling houses, all with off-street parking. Vehicular access to the site is provided via respective four driveways off Restwell Street and one driveway of Macauley Avenue.

### Proposed Development

The proposed development involves the demolition of the five existing dwelling houses on the site to facilitate the construction of a new residential apartment development.

A total of 87 residential apartments are proposed in the new building as follows:

1 bedroom apartments:	15
2 bedroom apartments:	68
3 bedroom apartments:	4
<b>TOTAL APARTMENTS:</b>	<b>87</b>

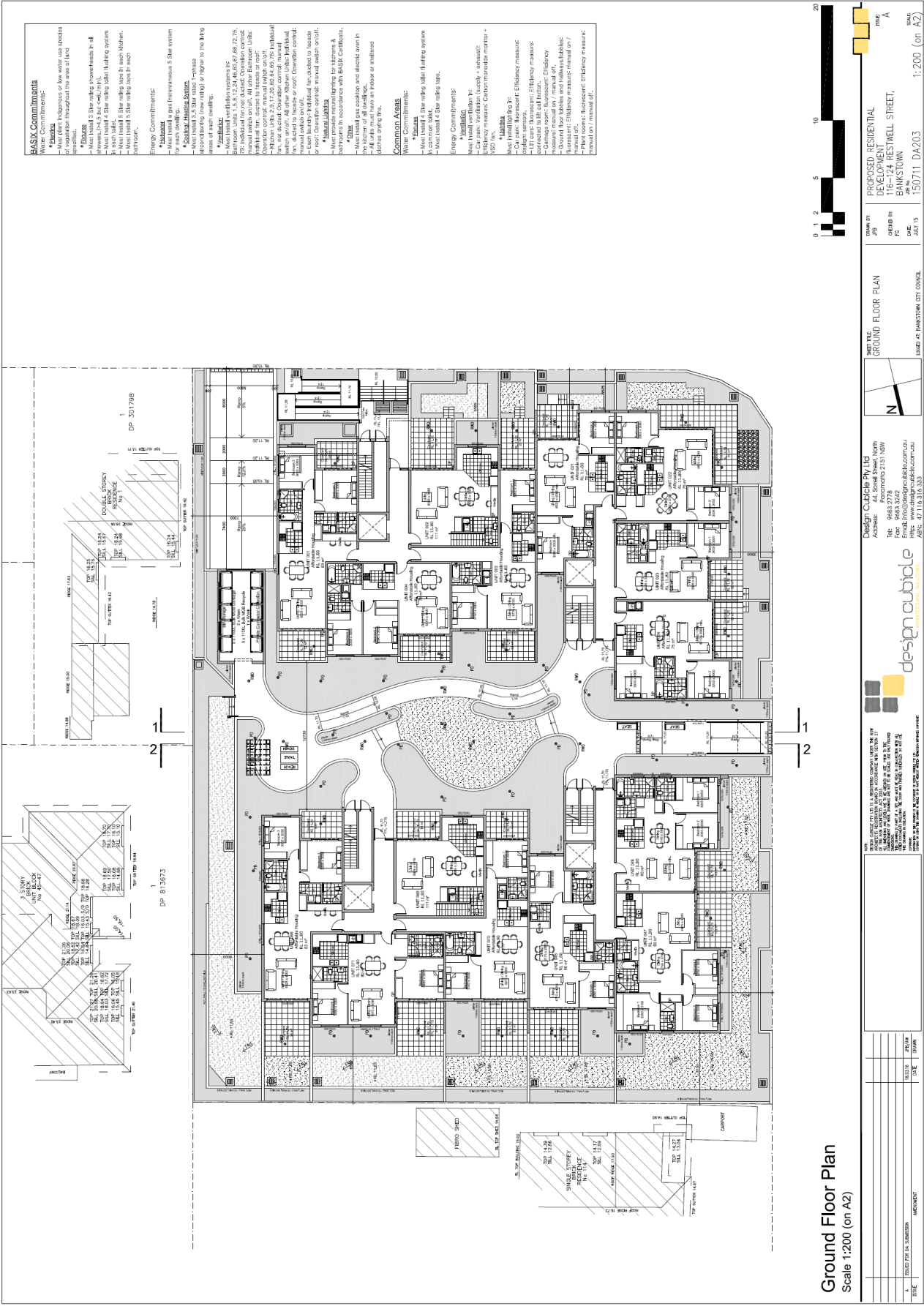
Off-street car parking is proposed for a total of 127 cars, comprising 110 residential spaces and 17 visitor spaces (including a car wash bay) in a new two-level basement car parking area in accordance with Council's requirements. Vehicular access to the car parking facilities is to be provided via a new entry/exit driveway located at the eastern end of the Macauley Avenue site frontage.

Plans of the proposed development have been prepared by *Design Cubicle* and are reproduced in the following pages.

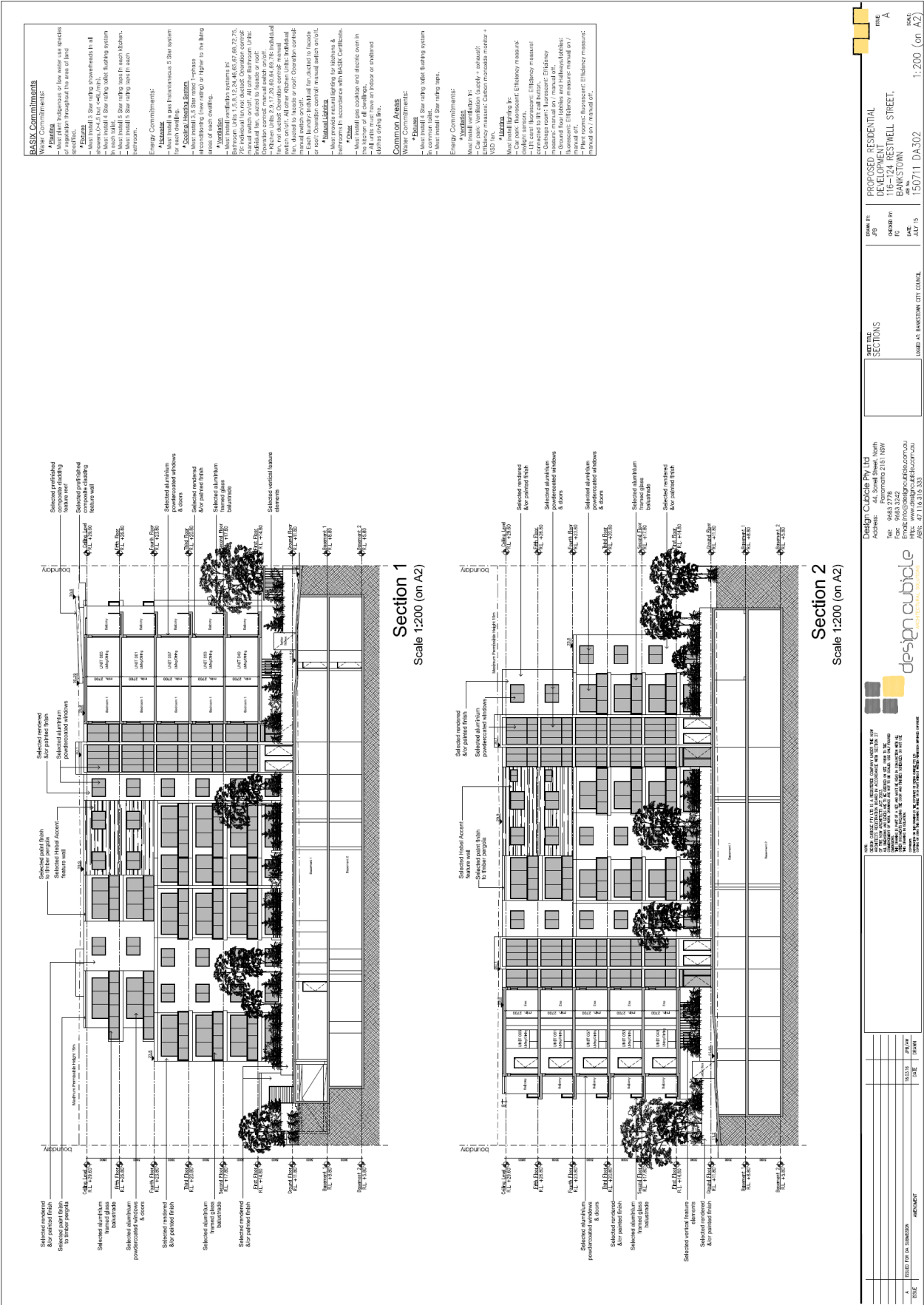








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### 3. TRAFFIC ASSESSMENT

#### Road Hierarchy

The road hierarchy allocated to the road network in the vicinity of the site by the Roads and Maritime Services is illustrated on Figure 3.

Stacey Street and Fairford Road are classified by the RMS as *State Roads* which provide the key north-south road link in the area, linking Padstow to Bankstown. They typically carry two to three traffic lanes in each direction in the vicinity of the site, with turning bays provided at key locations.

Canterbury Road is also classified by the RMS as a *State Road* which provides the key east-west road link in the area, linking Bankstown to Hurlstone Park. It typically carries two traffic lanes in each direction in the vicinity of the site, with turning bays provided at key locations.

Macauley Avenue is classified by the RMS as a *Regional Road* which performs the function of an east-west *collector route* through the area. It typically carries two traffic lanes in each direction in the vicinity of the site with kerbside parking generally permitted outside of commuter peak periods.

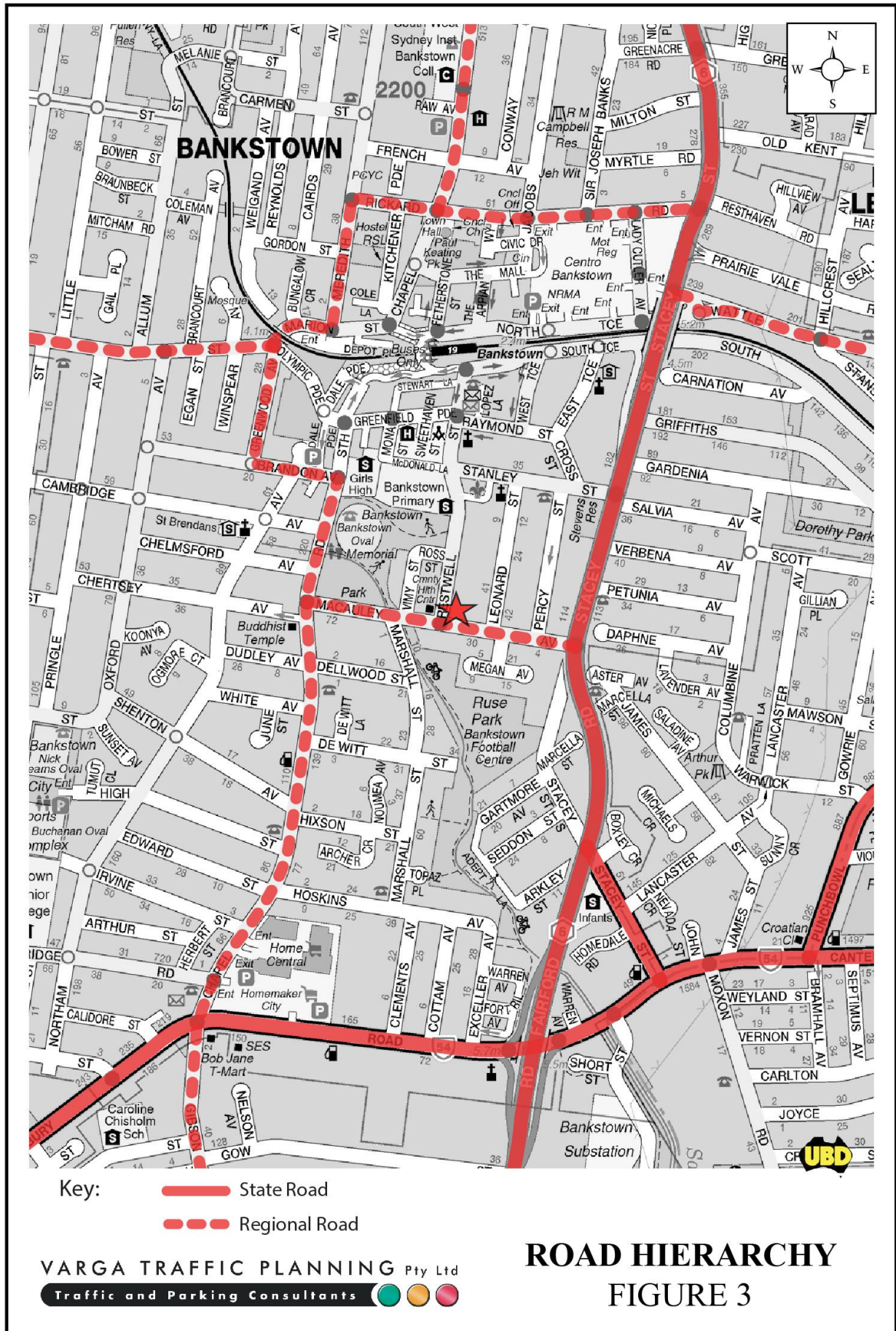
Restwell Street is a local, unclassified road which is primarily used to provide vehicular and pedestrian access to frontage properties. Kerbside parking is generally permitted on both sides of the road.

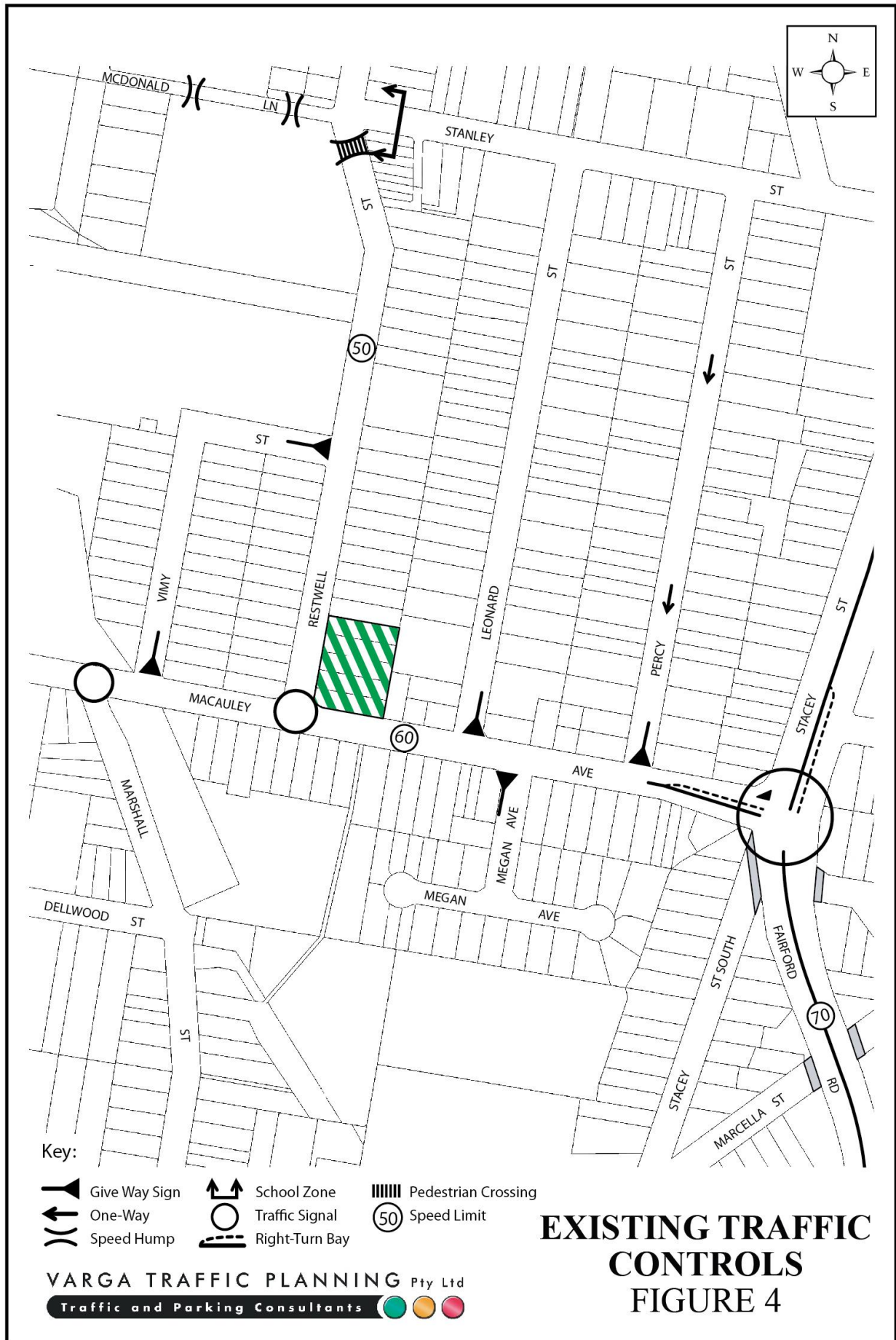
#### Existing Traffic Controls

The existing traffic controls which apply to the road network in the vicinity of the site are illustrated on Figure 4. Key features of those traffic controls are:

- a 70 km/h SPEED LIMIT which applies to Fairford Road and Stacey Street
- a 60 km/h SPEED LIMIT which applies to Macauley Avenue









- a 50 km/h SPEED LIMIT which applies to Restwell Street and all other local roads in the area
- TRAFFIC SIGNALS in Macauley Avenue where it intersects with Marshall Street, Restwell Street and also Stacey Street/Fairford Road
- a RIGHT TURN HOLDING BAY in Stacey Street for vehicles turning onto Macauley Avenue.

### **Projected Traffic Generation**

An indication of the traffic generation potential of the Planning Proposal is provided by reference to the Roads and Maritime Services publication *Technical Direction TDT 2013/04a (August 2013)* which notes that the Technical Direction *must* be followed when the RMS is undertaking trip generation assessments.

The *Technical Direction* is based on extensive surveys of a wide range of land uses and nominates the following traffic generation rates which are applicable to the development proposal:

#### **High Density Residential Flat Buildings**

AM: 0.19 peak hour vehicle trips per dwelling

PM: 0.15 peak hour vehicle trips per dwelling

Application of the above traffic generation rates to the various components of the development proposal yields a traffic generation potential of approximately 17 vehicle trips per hour (vph) during the AM commuter peak period and 13 vph during the PM commuter peak period.

That projected future level of traffic generation potential should however, be offset or *discounted* by the volume of traffic which could reasonably be expected to be generated by the existing uses of the site, in order to determine the *nett increase* in traffic generation potential of the development proposal.

The *Technical Direction* nominates the following traffic generation rates which are applicable to the existing development on the site:

**Low Density Residential Dwellings**

AM: 0.95 peak hour vehicle trips per dwelling

PM: 0.99 peak hour vehicle trips per dwelling

Application of the above traffic generation rates to the five existing dwelling houses on the site yields a traffic generation potential of approximately 5 vph during both the AM and PM commuter peak periods.

Accordingly, it is likely that the proposed development will result in a *nett increase* in the traffic generation potential of the site of approximately 12 vph during the AM commuter peak period and 8 vph during the PM commuter peak period, as set out below:

<b>Projected Nett Increase in Peak Hour Traffic Generation Potential of the Site as a Consequence of the Development Proposal</b>		
	<b>AM</b>	<b>PM</b>
Projected Future Traffic Generation Potential:	16.5 vph	13.1 vph
Less Existing Traffic Generation Potential:	-4.8 vph	-5.0 vph
<b>NETT INCREASE IN TRAFFIC GENERATION POTENTIAL:</b>	<b>11.7 vph</b>	<b>8.1 vph</b>

That projected increase in traffic activity as a consequence of the development proposal is minimal, consistent with the rezoning objectives of the area, and will clearly not have any unacceptable traffic implications in terms of road network capacity.

## 4. PARKING IMPLICATIONS

### Existing Kerbside Parking Restrictions

The existing kerbside parking restrictions which apply to the road network in the vicinity of the site are illustrated on Figure 5 and comprise:

- NO STOPPING restrictions in the vicinity of the Restwell Street and Macauley Avenue intersection, including the majority of the two site frontages
- NO PARKING (AM/PM) restrictions along both sides of Macauley Avenue in the vicinity of the site during the morning and afternoon commuter peak periods
- generally UNRESTRICTED kerbside parking along both sides of Restwell Street, north of the site
- BUS ZONES located along both sides of Restwell Street including directly outside the site.

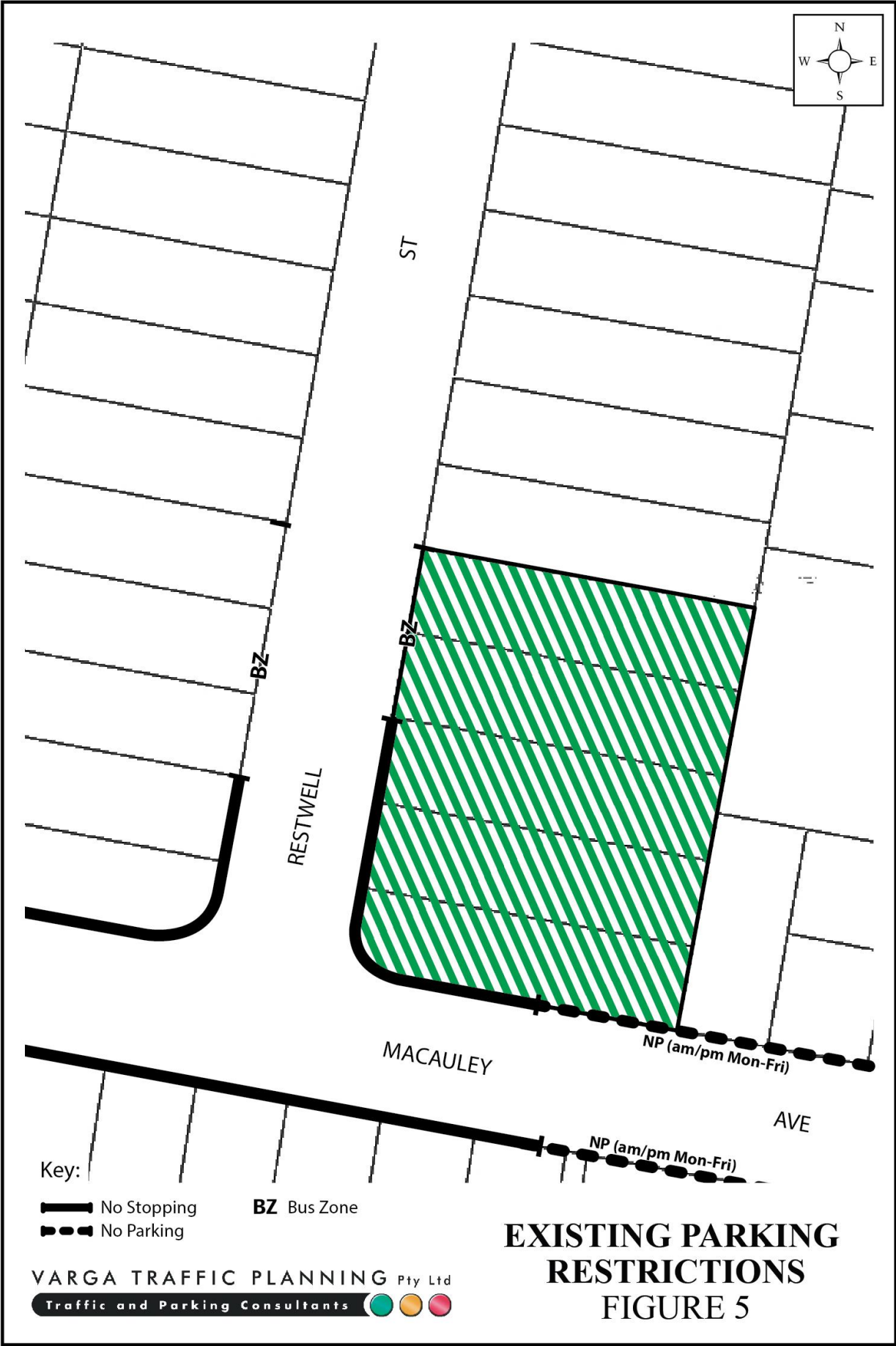
### Off-Street Parking Provisions

The off-street parking requirements applicable to the development proposal are specified in Council's *Development Control Plan 2015, Part B5 – Parking* document in the following terms:

#### **Residential Flat Buildings (Zone 4)**

One bedroom dwellings:	1 space per dwelling
Two bedroom dwellings:	1.2 spaces per dwelling
Three bedroom dwellings:	1.5 spaces per dwelling
Visitors:	1 space per 5 dwellings

Application of the above parking requirements to the 87 residential apartments outlined in the development proposal yields an off-street parking requirement of 120 parking spaces as set out below:



Residents (87 Apartments):	102.6 spaces
Visitors:	17.4 spaces
<b>TOTAL:</b>	<b>120.0 spaces</b>

The proposed development makes provision for a total of 127 off-street parking spaces, comprising of 110 residential spaces and 17 visitor spaces (including a car wash bay), thereby satisfying Council's parking code requirements.

The geometric design layout of the proposed car parking facilities have been designed to comply with the relevant requirements specified in the Standards Australia publication *Parking Facilities Part 1 - Off-Street Car Parking AS2890.1 - 2004* in respect of parking bay dimensions, ramp gradients and aisle widths.

In summary, the proposed parking facilities satisfy the relevant requirements specified in both Council's Parking Code as well as the Australian Standards and it is therefore concluded that the proposed development will not have any unacceptable parking implications.