

A2015939N Traffic Report 1.2

29th June 2020

Northern Beaches Council PO Box 82 Manly NSW 1655

Dear Sir/Madam,

<u>Car Parking and Traffic Assessment: Proposed Boarding House – 532 Pittwater Road,</u> <u>North Manly</u>

1. Overview

ML Traffic Engineers have been engaged to prepare a Car Parking and Traffic Assessment for the proposed boarding house at 532 Pittwater Road, North Manly. The subject site is located on the northern side of Pittwater Road, with entry/exit restricted to left in and left out movements only due to median division on Pittwater Road.

2. Proposal

The proposal comprises 12 studio type dwelling units within a boarding house and a shared common room.

There are 8 on-site parking spaces of which 1 is allocated as a disabled persons space, 3 motorcycle spaces and storage for 3 bicycles.

2.1 Car Parking Requirement

The Pittwater Development Control Plan B6.3, Table 1: Onsite Car Parking Requirements specifies car parking rates for different land uses. The table however does not include a car parking rate applicable to a 'boarding house'.

NSW Planning and Environment State Environmental Planning Policy (SEPP) (Affordable Rental Housing) 2009 provides car parking rates for boarding houses, and as such this rate has been applied.

The requirement is that "at least 0.5 parking spaces are provided for each dwelling containing 1 bedroom, at least 1 parking space is provided for each dwelling containing 2 bedrooms and at least 1.5 parking spaces are provided for each dwelling containing 3 or more bedrooms". With 12 studio type dwellings, the car parking space requirement for the proposed development is 6 spaces.

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With 8 spaces provided on site, the car parking provision as determined by SEPP Affordable Rental Housing is met.

2.2 Motorcycle Parking Requirement

The SEPP Affordable Rental Housing Division 3 Boarding Houses stipulates that at least 1 motorcycle parking space is provided for every 5 dwellings. This equates to a parking space requirement of 2 spaces.

With 3 motorcycle parking spaces provided, the SEPP requirement is met.

2.3 Bicycle Parking Requirement

The SEPP Affordable Rental Housing Division 3 Boarding Houses stipulates that at least 1 bicycle parking space is provided for every 5 dwellings. This equates to a parking space requirement of 2 spaces.

With storage for up to 3 bicycles provided, the SEPP requirement is met.

2.3.1 Car Parking Area Layout

The following comments are in relation to the car park layout:

- A B99 is able to enter and/or exit the site simultaneously with a B99 travelling in the opposing direction. The vehicles are contained within the left most through lane of Pittwater Road;
- The driveway width is 5.5m for 7.1m within the property boundary, adhering to the requirement of AS2890.1:2004 2004 Part 1: Offstreet car parking Table 3.2 for a Category 1 driveway, for which the requirement is a driveway width of between 3.0m and 5.5m;
- The driveway reduced in width to 3.03m for 9.3m from the widened area near the crossover to the parking aisle. This reduced driveway width adheres to Table 3.2 of AS2890.1 as detailed above;
- The car parking spaces (space 2 6) are 2.4m wide x 4.8m with 600mm unobstructed overhang, or 5.4m long abutting a structure with an aisle width of 6.8m. This adheres to the dimension requirements contained with AS2890.1: Figure 2.2 for User Class 1;



- The disabled persons space (space 1) is 2.4m wide x 5.4m long with a shared zone space of the same dimension, in accordance with AS2890.6 Off-street parking for people with disabilities. A bollard is to be placed within the shared zone to prevent cars parking;
- The motorcycle spaces adjacent to the disabled parking space shared zone are 0.78m wide x 2.4m long. The space adjacent to car parking space 5 is 1.05m wide x 2.4m long. AS2890.1:2004 Part 2.4.7 noted that motorcycle spaces should be 1.2m wide x 2.5m. The space adjacent to car parking space 5 will have exclusive use of the parking area and so the reduced width is deemed acceptable in this instance;

The motorcycle spaces adjacent to the shared zone of the disabled car parking space are not restricted to by any obstructions on one side due to the shared zone, and so the reduced width is considered acceptable in this instance. In saying this, the placement of the garden will restrict the entry to the spaces making them difficult to access. It is recommended the garden be removed to assist with the access to the motorcycle spaces;

- The columns between the car parking spaces are positioned 750mm from the end the car parking space, and are 790mm in length, as per AS2890.1:2004 Figure 5.2 Design Envelope Around Parked Vehicle to be Kept Clear of Columns, Walls and Obstructions;
- A blind aisle extension of 1.05m is provided at the end of the parking aisle in accordance with AS2890.1:2004, Section 2.4.2 Angle Parking Aisle;
- AS2890.1:2004 Figure 3.3 Minimum Sight Lines for Pedestrians details the requirement to provided 2.5m x 2.5m sight triangles to enable visibility to approaching pedestrians. The sight triangles provided on the western side of the driveway exit lane adhere to this requirement. On the eastern side the driveway abuts the side boundary and so restricting the availability of the sight triangle. To ensure sight triangles are obtained/maintained on the eastern side, the side boundary fence is to be below driver eye height;
- Swept path analysis was undertaken for a B85 car using AutoTURN for any constrained car parking spaces. The turning movement from the car parking aisle to the driveway is restricted by car parking space 1 and the adjacent column, however is achievable with the vehicle set to less than 10km/h and 'turn wheels from stop' selected for the first turn from the parking aisle to the driveway;



- Reverse ingress into spaces 6 8 will assist with avoiding car parking space 1 during the egress movement.
- Swept paths were done at a speed of 10km/h with 'turn wheels from stop' not selected other than for the first movement following a reverse movement, within the car parking module, or from the parking aisle to the driveway is necessary. Clearance lines offset 300mm from the vehicle are displayed. Refer Appendix A.



2.4 Traffic Generation

A traffic generation rate of 0.3 trip per dwelling was adopted, which has been based on considerations for various dwelling types with similarities to a boarding house, and lower car parking requirement for a boarding house. See Table 1.

On this basis, a 12-dwelling boarding house generates 4 trips (3.6 rounded up as a conservative measure) an hour. Assuming an 80% outbound / 20% inbound directional split in the AM peak period, this equates to 3 outbound trips and 1 inbound trip per AM peak hour. Assuming an 30% outbound / 70% inbound directional split in the PM peak period, this equates to 1.2 outbound trips and 2.8 inbound trip per PM peak hour. Note that the on-site car park has 8 parking spaces. During the peak hour, the car park will be turning over at a rate of 2 cars per 3 spaces, or 67%.

Source	Reference	Hourly Traffic	Car Parking
		Generation Rate	Requirement
RTA Guide to Traffic Generating Developments Ver 2.2.	Section 3.3.2 Medium Density Residential Building	0.4 trip per dwelling	1 space per dwelling
	Section 3.4.1 Motels.	0.4 trip per dwelling	1 space per unit, 1 space per 2 employees.
	Section 3.3.3 High Density Residential Building in Metropolitan Regional Centre	0.24 trip per dwelling	0.4 space per 1- bedroom dwelling
	Section 3.3.4 Housing for Aged and Disabled Persons	0.1 to 0.2 evening trip per dwelling.	0.67 space per unit (residents) plus 1 space per 5 unites (visitors).
TRMS TDT 2013/04a Updated traffic surveys for Guide to Traffic Generating Developments	Housing for Seniors High density residential flat dwellings which are close to public transport, greater than 6 stories and near 100% residential.	0.4 trip per dwelling 0.19 trip per dwelling in the AM peak hour and 0.15 trip per dwelling in the PM peak hour.	

Table 1: Traffic Generation References

The traffic generation of the subject site is low and will not negatively impact Pittwater Road or the surrounding road network.



3. Conclusion

As per the considerations provided in this report, the proposed boarding house will not have any material impact on traffic along Pittwater Road or the surrounding road network.

The car park layout adheres to the design and manoeuvrability requirements of AS2890.1:2004 Part 1: Off-street car parking and AS2890.6:2009 Part 6:Off-street parking for people with disabilities.

If you have any questions, please ring me on 0413 295 325 or email me at traffic@mltraffic.com.au.

Yours sincerely,

Slayes

Sonja Hayes Senior Traffic Engineer













