

## TRAFFIC AND PARKING IMPACT ASSESSMENT OF THE RESIDENTIAL DEVELOPMENT AT 20-22 MINDARIE STREET & 30 PINAROO PLACE, LANE COVE NORTH



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## 1 INTRODUCTION

*M<sup>c</sup>Laren Traffic Engineering* was commissioned by *BlueCHP Limited* to provide a Traffic and Parking Impact Assessment of the Residential Development at 20-22 Mindarie Street & 30 Pinaroo Place, Lane Cove North as depicted in **Annexure A**.

## 1.1 Description and Scale of Development

The proposed development has the following characteristics relevant to traffic and parking:

- A total of 30 units including six (6) adaptable units consisting of:
  - 5 x one-bedroom apartments;
  - 20 x two-bedroom apartments;
  - 5 x three-bedroom apartments;
- Nine (9) of the proposed units are in-fill affordable housing units as defined by the State Environmental Planning Policy (Affordable Rental Housing) 2009;
- Two (2) basement parking levels with vehicular access via a proposed two-way driveway from Pinaroo Place, accommodating a total of 43 car spaces including seven (7) disabled spaces:
  - 38 residential car spaces including six (6) disabled spaces;
  - Four (4) visitor car spaces, including one (1) disabled space;
  - One (1) car wash bay shared with a visitor parking space.

### 1.2 State Environmental Planning Policy (Infrastructure) 2007

The proposed development does not qualify as a traffic generating development with relevant size and/or capacity under Clause 104 of the State Environmental Planning Policy (Infrastructure) 2007. Accordingly, formal referral to the Roads and Maritime Services (RMS) is unnecessary and the application can be assessed by Lane Cove Council officers accordingly.

### 1.3 Site Description

The subject site consists of three lots which are currently zoned R4 - High Density Residential under the Lane Cove Council's Local Environmental Plan (LEP) 2009. The three lots of the subject site are currently occupied by three separate residential dwellings, with one on each lot. The site has frontages to Mindarie Street to the North and Pinaroo Place to the east.

The site is generally surrounded by low to high-density residential developments with Mindarie Park located to the east and Mowbray Public School located 120m to the north of the subject site. The site is located within 220m walking distance of bus stops located on Mowbray Road to the north of the site.



## 1.4 Site Context

The sites location is shown on an aerial photo and a street map in **Figure 1** and **Figure 2** respectively.



# FIGURE 1: SITE CONTEXT – AERIAL PHOTO



### FIGURE 2: SITE CONTEXT – STREET MAP



### 2 EXISTING TRAFFIC AND PARKING CONDITIONS

#### 2.1 Road Hierarchy

The road network servicing the site has characteristics as described in the following subsections within close proximity of the site.

#### 2.1.1 Mindarie Street

- Unclassified LOCAL Road;
- Approximately 7.5m wide carriageway facilitating one traffic lane in each direction and kerbside parking along the southern side of the road.
- Signposted 50km/h speed limit;
- Unrestricted kerbside parking permitted the southern side of the road, with the northern side of the road restricted via "No Stopping" signage.

#### 2.1.2 Pinaroo Place

- Unclassified LOCAL Road;
- Approximately 7.5m wide carriageway facilitating one traffic-flow lane with two-way passing available at driveways, and kerbside parking along both sides of the road;
- No speed limit signposted, 50km/h speed limit applies;
- Unrestricted kerbside parking permitted along both sides of the road.

#### 2.1.3 <u>Hatfield Street / Kullah Parade</u>

- Road known as Hatfield Street to the north of its intersection with Mindarie Street and Kullah Parade to the south of the intersection;
- Unclassified LOCAL Road;
- Approximately 7m wide carriageway facilitating the following on each section of street:
  - Hatfield Street: One traffic lane in each direction with no kerbside parking;
  - Kullah Parade: One traffic flow lane with two-way passing available at driveways, and kerbside parking along both sides of the road.
- Signposted 50km/h speed limit;
- Signpost restricted "NO STOPPING" along both sides of Hatfield Street, and unrestricted kerbside parking available on both sides of Kullah Parade

#### 2.2 Existing Traffic Management

- Priority controlled intersection of Pinaroo Place / Mindarie Street;
- Priority controlled intersection of Mindarie Street / Willandra Street;
- "STOP" controlled intersection of Mindarie Street / Hatfield Street / Kullah Parade;
- Signalised intersection of Hatfield Street / Mowbray Road W.



## 2.3 Public Transport

The subject site has access to existing bus stop (ID: 2066180) located approximately 120m walking distance from the site on Mowbray Road. The bus stop services existing bus route 292 (Marsfield to Sydney City [Erskine Street] via Macquarie Park) and 533 (Sydney Olympic Park to Chatswood via Rhodes and North Ryde) provided by State Transit.

The sites location subject to the surrounding public transport network is shown in **Figure 3** below.



Site Location

## FIGURE 3: PUBLIC TRANSPORT NETWORK MAP

### 2.4 Future Road and Infrastructure Upgrades

From Lane Cove Council's Development Application tracker and website, it appears that there are no future planned road or public transport changes that will affect traffic conditions within the immediate vicinity of the subject site.



## 3 PARKING ASSESSMENT

#### 3.1 Car Parking Requirement

Reference is made to the *State Environmental Planning Policy (Affordable Rental Housing)* 2009 referred to as SEPP (ARH) 2009 hereafter, which designates the following car parking rates applicable to the affordable renting housing portion of the proposed development:

(14) Standards that cannot be used to refuse consent

- (2) General
- (a) parking

(i) in the case of a development application made by a social housing provider for development on land in an accessible area – at least 0.4 parking spaces are provided for each dwelling containing 1 bedroom, at least 0.5 parking spaces are provided for each dwelling containing 2 bedrooms and at least 1 parking space is provided for each dwelling containing 3 or more bedrooms, or...

It must be noted that the development application is made on behalf of a social housing provider, therefore the above rates apply for the ten (10) total affordable housing units.

The proposed development provides a combination of both Affordable Renting Housing and traditional units. Reference is made to *Lane Cove Development Control Plan* (DCP) *Part R-Traffic, Transport and Parking* which designates the following car parking rates applicable to the proposed development:

### Residential Flat Buildings

#### Residents

0.5 spaces per studio

1 space per 1-bedroom

1.5 spaces per 2-bedroom

2 spaces per 3+ bedroom

1 disabled space for each adaptable unit...

1 car wash bay per 50 units for developments over 20 units

Visitors

1 space per 4 units

1 disabled space per 50 visitor spaces (minimum 1 disabled space)

Calculations are to be rounded up to the nearest whole number.



The car parking requirements of the proposal with application of both SEPP (ARH) 2009 rates and Council's DCP rates are outline in **Table 1**.

Land Use	Authority	Scale	Туре	Rate	Parking Required
	SEPP (ARH)	3	1-bedroom	0.4 per dwelling	1.2
		6	2-bedroom	0.5 per dwelling	3
	2009	Subtotal			4.2 (5)
	Lane Cove Council DCP	2	1-bedroom	1 per dwelling	2
Residential Flat Buildings		14	2-bedroom	1.5 per dwelling	21
		5	3-bedroom	2 per dwelling	10
		Subtotal			33
		21	Visitor	1 per 4 dwellings	5.25 (5)
		21	Car wash bay	1 bay per 50 units	0.42 (1)
		Subtotal			5.25 + car wash bay
Total	-		-	-	43.25 (44) + car wash bay

TABLE 1: CAR PARKING REQUIREMENTS SUMMARY

As shown above with strict application of both SEPP (ARH) 2009 and Council's DCP, the proposed development requires a total of **44** car parking spaces and a car wash bay including 5.25 visitor spaces. The proposed plans detail the provision of a total of **43** car parking spaces including a car wash bay which is shared with visitors and four other (4) visitor spaces.

This total car parking provision complies with the requirements of the relevant authorities for residential buildings, however, there is a shortfall of 0.25 visitor parking spaces. The car wash bay could be used by visitors, which would satisfy this parking shortfall. The shortfall of 0.25 visitor spaces is justified using Council's DCP objectives as summarised in the following subsection.

### 3.1.1 Visitor Parking Space Shortfall

Reference is made to the Lane Cove DCP Part R Section 2.2 which states the following:

Lesser parking rates will only be considered if two or more of the following circumstances apply:



- There are realistic transport alternatives to the private car in the locality.
- The applicant can demonstrate a low demand for parking eg. Car ownership survey data in the vicinity or relevant examples of similar developments where reduced parking rates have been successfully implemented;
- In locations where there is no risk of overspill parking from the development impacting on the local streets;
- There are exceptional site constraints which limit available on-site parking and appropriate mitigation measures and/or financial contributions are suggested in lieu;
- There is an overriding community benefit arising from the development.

The shortfall is less than one space (0.25) and is therefore very minor. The proposal is surrounded by low traffic local roads. The site has approximately 65m of frontage to public roads (38m on Pinaroo Place + 27m on Mindarie Street). This is enough space for approximately ten (10) kerbside parallel parking spaces. A main purpose of on-street parking in local residential roads is for short term visitors.

As discussed previously, the site is located within 200m walking distance of bus stops along Mowbray Road, which provide frequent services to Sydney City, Chatswood, Olympic Park and Marsfield. Chatswood and Sydney City have major train stations and are destinations for commuters. Additionally, the site is within 400m walking distance to bus stops along Epping Road, which provide services between Epping and Sydney City every 10 minutes. The public transportation service within the surrounding area is a satisfactory and efficient alternative to private car reliance.

In addition to the above, Australian Bureau of Statistics provides car ownership data of various areas around Australia following the 2016 Census, with data located in their *Census TableBuilder* website. As such, the car ownership rates of dwellings within the Lane Cove North suburb have been compared to that of the wider Lane Cove Local Government Area (LGA), with detailed results from the *Census TableBuilder* provided in **Annexure B** and a summary provided in **Table 2**.

	Lane Cove North (suburb)	Lane Cove (LGA)
Total Number of Cars	5989	19714
Total Number of Dwellings	4487	13350
Average Cars per Dwelling	1.33	1.48

TABLE 2: CAR OWNERSHIP SUMMARY



As shown in **Table 2**, the average dwelling of Lane Cove North owns less cars than that over the wider LGA of Lane Cove. As such, there is likely to be a lower demand for parking per dwelling in the vicinity of the site in the suburb, compared to that of the wider LGA which the DCP car parking rates would be based upon.

Therefore, as a result of no expected adverse impact on local streets for on-street parking of one (1) space and the likely lower parking demand within the vicinity of the Lane Cove North suburb, the proposed numerical shortfall of 0.25 (1) visitor parking space is considered acceptable.

## 3.2 Disabled Parking

As quoted in **Section 3.1**, Council's *DCP Part R* requires disabled parking for residential flat buildings at the rate of one (1) disabled space for each adaptable unit, and one (1) disabled space per 50 visitor spaces (minimum one (1) disabled space). However, the SEPP (ARH) 2009 does not provide rates of disabled parking for the affordable rental housing portion of the proposed development. Best practice for residential disabled car parking provision is to provide parking at a rate of one (1) disabled space for every adaptable dwelling.

Therefore, as the proposed development proposes six (6) adaptable dwellings (all affordable/social units) and five (5) visitor car spaces, it is considered that the proposed development requires a total of seven (7) disabled accessible car parking spaces. Six (6) disabled accessible spaces are provided and one (1) disabled visitor space is provided with the proposed plans, satisfying the relevant DCP requirements for adaptable units and visitor parking.

## 3.3 Bicycle & Motorcycle Parking Requirements

The SEPP (ARH) 2009 does not provide bicycle nor motorbike parking requirements for Infill affordable housing. Reference is made to Lane Cove Development Control Plan Part R which designates the following requirement for bicycle and motorcycle parking:

### Table 3 – Bicycle parking rates

Residential flat buildings

Residents: 1 per 4 dwellings;

Visitors: 1 rack + 1 per 10 dwellings;

### 2.7 Motorcycle parking

a) Developers shall provide 1 motorcycle parking space per 15 car spaces for all types of development.

### 3.3.1 Bicycle Parking Requirement

The bicycle parking requirement for the proposed development is summarised in **Table 3**. Although the SEPP (ARH) 2009 does not provide bicycle parking requirements, the Council DCP rates have been applied to the affordable rental housing units for a conservative assessment.



Land Use	Туре	Scale	Туре	Rate	Parking Required
	Affordable	9	Residents	1 per 4 units	2.25
Residential	Rental Housing		Visitors	1+1 per 10 units	1.9
	Residential Flat Building	21	Residents	1 per 4 units	5.25
			Visitors	1 per 10 units	2.1
Total		30	Residents		7.5 <b>(8)</b>
Total	-		Visitors	-	4

#### TABLE 3: BICYCLE PARKING SUMMARY

As shown above, Council's DCP requires eight (8) residential bicycle parking spaces and four (4) visitor parking spaces, assuming the affordable rental housing units are provided with bicycle parking at the same rate as the LDCP. The proposed plans detail a total of 22 bicycle parking spaces, exceeding the minimum requirements of the DCP by 10 spaces. The bicycle room shall be made available for visitors.

### 3.3.2 Motorcycle Parking Requirement

Although the SEPP (ARH) 2009 does not provide motorcycle parking requirements, the Council DCP rates for motorcycle parking (1 per 15 car spaces) have been applied to the affordable rental housing units for a conservative assessment. The provision of **43** car parking spaces results in the required provision of three (**3**) motorcycle parking spaces. The proposed plans detail three (**3**) motorcycle parking spaces, satisfying the Council's DCP requirements.

#### 3.4 Servicing & Loading

Reference is made to *Lane Cove Development Control Plan* (DCP) *Part R-Traffic, Transport and Parking* which states the following requirements regarding servicing and loading applicable to the proposed development:

#### 2.10 Parking and access for service vehicles

Provisions

a) Parking areas shall be provided and designed to allow for access and loading by Council's waste collection contractor.

b) All parking areas for delivery and service vehicles must be designed in accordance with AS 2890.2:2002 Parking facilities—Off-street commercial vehicle facilities. On site delivery and service areas for residential flat buildings must be large enough to accommodate removal trucks.

c) Developers should refer to Part Q - Waste Management & Minimisation for relevant dimensions and requirements.

### 6.6 Servicing operations



Details issues related to servicing operations (delivery vehicle loading and unloading).

Provisions

a) Loading and servicing areas shall be clearly shown on plans and must comply with AS 2890.2: 2002 - Off-street commercial vehicle facilities and Council's DCP Part Q: Waste Management and Minimisation.

b) Waste collection arrangements must be clearly explained and swept paths of Council's waste collection vehicle must be shown for all internal manoeuvres. Refer to DCP Part Q – Waste Management & Minimisation.

It has been advised that waste collection will take place on site. Council's 6.64m length waste collection vehicle (or smaller) will enter the site in a forward direction before stopping near the waiting bay. Whilst the waste vehicle is located here, passenger vehicles can still circulate the site successfully. Waste collection will be completed outside of peak commuter hours to limit conflict as much as possible. Given this, a separate loading bay is unnecessary. Once completed, the waste vehicle will turn around at the end of the parking aisle and exit the site in a forward direction. This operation is shown in **Annexure B**.

MTE has completed an undercarriage clearance test on a longsection of the driveway ramp. Annexure B shows that Council's 6.64m length waste collection vehicle can successfully navigate the ramp without undercarriage scraping.

The headroom is a minimum of 2.6m in the basement. The waste collection vehicle is therefore limited to 2.4m in height in accordance with the requirements of *AS2890.2:2018*.

It is proposed that servicing or loading by vehicles up to and including Australian 99.8<sup>th</sup> percentile light vehicle (B99) in accordance with *AS2890.1:2004*, can be undertaken within vacant visitor parking bays outside of peak visitor peaks. For vehicles larger than a B99, it is proposed that servicing or loading is undertaken via on-street parking.

### 3.5 Car Park Design & Compliance

The car parking layout as depicted in **Annexure A**, have been assessed to achieve the relevant clauses and objectives of *AS2890.1:2004* and *AS2890.6:2009*, subject to any variations outlined in subsections below.

The proposed car park design achieves:

- Compliant ramp grades not exceeding 25% for private developments;
- Minimum 5.4m length, 2.4m width spaces;
- Minimum 5.4m length, 2.4m width disabled accessible spaces with adjacent shared spaces of the same dimensions;



- Minimum headroom of 2.2m for general circulation and 2.5m headroom clearance provided over disabled and adaptable parking areas;
- Minimum width of 6.1m between walls and 5.5m between kerbs on all ramps;
- Minimum 1.2m width, 2.5m length motorcycle spaces;
- Minimum bicycle parking envelope of 0.5m width, 1.8m length with a 1.5m aisle width.

### 3.5.1 <u>5% Grade Across Property Boundary</u>

*Clause 3.3* of *AS2890.1:2004* requires that the gradient of an access driveway from the property boundary be a maximum of 5% for a minimum distance of 6m into the site. The proposal includes a 5% gradient for the first 4m into the site, rather than 6m. This requirement outlined above is preceded by the following statement: "*At entry and exit points, the access driveway should be graded to minimize problems associated with crossing the footpath and entering the traffic in the frontage road.*" As such, it is widely considered that the requirement for the 5% grade for a minimum of 6m is to provide drivers with sufficient visibility to pedestrians walking along a footpath outside the property boundary to minimize the risk of potential conflicts.

Reference is made to *Figure B1* of *A2890.1:2004* which indicates that the distance from the front bumper of a B99 vehicle to the rear axle is a distance of 4000mm. As such, for the proposed gradient of 5% for 4m from the property boundary, vehicles covered under *AS2890.1:2004* can have all wheels located on a gradient of 5% without crossing the property boundary. Therefore, this will allow drivers sufficient visibility to pedestrians such that this variation from the standards is considered acceptable.

#### 3.5.2 Ramp Signal System

Swept paths have been undertaken and are reproduced in **Annexure C** for reference. It should be noted that due to the ramp and parking aisle arrangements it is recommended to provide a red signal control and signage detailing "*Give Way to Entering Vehicles*" in view of exiting vehicles that activates upon a vehicle entering such that vehicles exiting can give way in most circumstances.

Whilst the plans have been assessed to generally comply with the relevant standards, subject to any variations outlined above, it is usual and expected that a design certificate be required at the Construction Certificate stage to account for any changes following the development application.



## 4 TRAFFIC ASSESSMENT

The impact of the expected traffic generation levels associated with the subject proposal is discussed in the following sub-sections.

## 4.1 Traffic Generation

Traffic generation rates for the relevant land uses are provided in the *Roads and Maritime Services (RMS) Updated Traffic Surveys (TDT 2013/04a)* and are as follows:

## TDT 2013/04a

### High density residential flat dwellings

AM peak (1 hour) vehicle trips per unit	0.19
PM peak (1 hour) vehicle trips per unit	0.15

The resulting traffic generation is summarised in Table 4.

Use	Time	Scale	Peak Hour Traffic Generation Rate	Peak Hour Split
High density	AM	30 units	0.19 trips per unit	5.7 (6)
Residential	PM		0.15 trips per unit	4.5 (5)
Total	АМ	-	-	1 IN; 5 OUT
	РМ			4 IN; 1 OUT

#### TABLE 4: ESTIMATED TRAFFIC GENERATION

Note: (1) Assumes 20% inbound & 80% outbound during AM peak: Vice versa for PM.

As shown, the maximum traffic generation associated with the proposed development is in the order of six (6) (1 IN; 5 OUT for AM Peak) vehicle trips. The *Metropolitan Sub-Regional Centres* rate from the *RMS' Updated Traffic Surveys (TDT 2013/04a)* rate has been used to calculate traffic generation as the subject site is not within immediate proximity of a train station. Note that this traffic generation is considered to be conservative as it does not incorporate the traffic generation of the existing site use.

### 4.2 Trip Assignment

Reference is made to the *Austroads Guide to Traffic Management Part 12: Figure 4.1* which states the following about the likely impact of traffic generating developments: Likely impact of development:

Low Impact (<10 Trips): No Detailed Assessment Required Moderate Impact (10-100 Trips): Traffic Impact Statement Required High Impact (>100 Trips): Traffic Impact Assessment Required

The traffic generation of the site is below 10 trips and therefore no detailed assessment of traffic impacts is required. This low volume of vehicles is likely within the daily fluctuations in traffic on the surrounding roads and will not have a noticeable effect on conditions.



## 5 CONCLUSION

. The following outcomes of this traffic and parking impact assessment are relevant to note:

- The relevant controls applicable to the development, including SEPP (ARH) 2009 and Lane Cove Council's DCP requirements, require a car parking provision of **43.25** car parking spaces. The proposal includes a total of **43** car parking spaces, complying with the relevant controls applicable to the development, except for a 0.25 visitor space shortfall.
- The shortfall of 0.25 visitor car parking spaces can be satisfied by utilizing on-street car parking and/or sharing the car wash space with visitors.
- Council's DCP requires eight (8) residential bicycle parking spaces and four (4) visitor parking spaces, assuming the affordable rental housing units are provided with bicycle parking at the same rate as the LDCP. The proposed plans detail a total of 22 bicycle parking spaces, exceeding the minimum requirements of the relevant authorities by 10 spaces.
- The parking areas of the site have been assessed against the relevant sections of *AS2890.1*, *AS2890.3* and *AS2890.6* and have been found to satisfy the clauses and objectives of each standard, subject to any variations listed in **Section 3.5**.
- Waste collection will take place within the aisle in Basement 1. **Annexure B** shows that the vehicle can be stationed within the aisle and still allow successful circulation throughout the basements for light vehicles.
- Servicing and loading by vehicles up to B99 will be undertaken via vacant visitor parking spaces outside of peak periods. Servicing by larger vehicles is proposed to be undertaken via on-street parking.
- The estimated traffic generation of the site is a peak of six (6) trips, which is below 10 trips and therefore no detailed assessment of traffic impacts is required in accordance with *Austroads Guide to Traffic Management Part 12: Figure 4.1*. This low volume of vehicles is likely within the daily fluctuations in traffic on the surrounding roads and will not have a noticeable effect on conditions.

In view of the foregoing, the subject Residential Development proposal at 20-22 Mindarie Street & 30 Pinaroo Place, Lane Cove North (as depicted in **Annexure A**) is fully supportable in terms of its traffic and parking impacts.



ANNEXURE A: PROPOSED PLANS (3 SHEETS)









ANNEXURE C: SWEPT PATH TESTING (4 SHEETS)





AUSTRALIAN STANDARD 99.8<sup>TH</sup> PERCENTILE SIZE VEHICLE (B99)

Blue – Tyre Path Green – Vehicle Body Red – 300mm Clearance

#### The Smallest Council Garbage Truck used for Domestic Waste Collection – Rear Load

- Length overall
- Width overall
- Operational height
- Travel height
- Weight (vehicle and load)
- Weight (vehicle only)
- Turning Circle

- 6.64 metres
- 2.37 metres
- 2.40 metres
- 2.60 metres
- 7.50 tonnes
- 5.48 tonnes
- 10.70 metres



rearloader garbage truck

### **COUNCIL WASTE VEHICLE**



B99 and B85 Two-Way Passing at Driveway

B99 Right Turn IN / B85 Left Turn OUT

Successful



Basement 1 Two Way Passing at Waiting Bay

B85 entering / B99 exiting

Successful



Basement 2 Two Way Passing at Waiting Bay

B85 entering / B99 exiting

Successful



COUNCIL WASTE VEHICLE ENTRANCE INTO WAITING BAY



COUNCIL WASTE VEHICLE EXIT FROM SITE

SUCCESSFUL



**B99 PASSING AROUND COUNCIL WASTE VEHICLE IN PLACE** 



**B99 PASSING AROUND COUNCIL WASTE VEHICLE IN PLACE** 

SUCCESSFUL





# VERTICAL CLEARANCE TEST – COUNCIL'S WASTE COLLECTION VEHICLE SUCCESSFUL



