

21 March 2023 Ref: 22049

Freedom Development Group PO Box 446 DRUMMOYNE NSW 1740

Attention: Edward Fernon edward@freedomdevelopment.com.au

Dear Edward,

59 Tindale Street, Muswellbrook Proposed Residential Development – Stage 2 <u>Traffic & Parking Assessment Report</u>

Introduction

In September 2021, the Land & Environment Court approved DA2021/26, involving the change of use of an aged care facility on the western portion of site into a boarding house, as well as the change of use of independent seniors living units into dual occupancy dwellings. The approved DA2021/26 scheme is referred to as Stage 1.

This new Development Application (DA) involves the construction of a new multi-dwelling residential development on the vacant eastern portion of the site, referred to as Stage 2.

Site

The Stage 2 subject site is located on the southern side of Tindale Street, towards the far eastern end. The site has a street frontage of 64m in length to Tindale Street and occupies an area of 5,110m².



Figure 1 – Aerial image of the subject site from 12 February 2023 (Source: Nearmap)

Mobile: 0415 256 233 ABN 68 648 775 722



The Stage 2 subject site is currently vacant, as indicated in the recent aerial image in Figure 1, as well as Streetview images below.



Figure 2 – Streetview image of the subject site from Tindale St, looking west (Source: Google Maps)



Figure 3 – Streetview image of the subject site from Tindale St, looking east (Source: Google Maps)

Approved DA2021/26 Stage 1 Scheme

As noted in the foregoing, In September 2021, the Land & Environment Court approved DA2021/26, involving the change of use of a 36-bed aged care facility on the western portion of site into a 44-room boarding house, as well as the change of use of 14 independent seniors living units into dual occupancy dwellings.



Off-street parking in the DA2021/26 scheme is approved for 52 cars at various locations through the Stage 1 site. Vehicular access is approved via two separate two-way driveways located off the Tindale Street site frontage.

The approved DA2021/26 consent also requires the construction of full kerb & guttering along Stage 1's Tindale Street site frontage, noting Stage 2 already has kerb & guttering. In addition, the DA2021/26 consent requires the construction of a new 2.0m wide public footpath within the Council verge, along the entire Tinale Street frontage.

A copy of the approved DA2021/26 Stage 1 architectural plans are provided in Appendix A.

Proposed Development – Stage 2

The proposed development involves the construction of a new multi-dwelling residential development on the vacant eastern portion of the site, comprising a total of 30 dwellings (inc. 4 adaptable), as follows:

Proposed dwelling mix1 bedroom dwelling:52 bedroom dwelling:25Total:30

In addition, an ancillary communal space building is also proposed for the shared use of residents within the development, as well as their guests.

Off-street parking is proposed for 49 cars (inc. 5 accessible) plus a dedicated van loading bay, at various locations throughout the site, directly outside the dwellings.

Vehicular access to Dwellings 11-30, the communal area and van loading bay is proposed via a new 5.8m wide two-way driveway located midway along Stage 2's Tindale Street site frontage.

Due to the topography of the site and design requirements for accessibility, vehicular access to Dwellings 1-10 is proposed to be provided directly off Tindale Street, rather than the main driveway.

Waste collection is to be undertaken by Council from the kerbside area outside the Stage 2 site frontage. In this regard, residents will line their bins up along the kerb on "bin night" for collection the following day.

A copy of the proposed Stage 2 architectural plans are provided in Appendix B.

Public Transport

There are currently 2 bus services which operate within the vicinity of the site, with the closest bus stop to the site located approximately 200m walking distance west of the site along Tindale Street, just west of Nowland Street. The bus stop is serviced by the 411 Sydney Street service as well as the 413 Highbrook loop service.

The abovementioned bus services also connect with train services at Muswellbrook railway station, which lies on the Hunter Line, operating 7 days between Newcastle Interchange, Scone and Dungong via Singleton and Maitland. Alternatively, for those inclined, Muswellbrook railway station is located approximately 1.6km walking distance to/from the site.

Muswellbrook town centre is also located approximately 1.8km north of the site which includes a wide range of essential shops and services including the post office, Woolworths, Big W, butchery, cafés and restaurants, bakery, banks, bottle shop, pharmacy, gymnasium, hairdressers and beauticians.



A copy of the bus network map and timetable is provided in Appendix C.

Traffic Assessment

The traffic implications of development proposals primarily concern the effects of any *additional* traffic flows generated as a result of a development and its impact on the operational performance of the adjacent road network, particularly during the weekday commuter peak periods.

An indication of the traffic generation potential of the proposed development is provided by reference to the former RMS publication *Guide to Traffic Generating Developments, Section 3 - Landuse Traffic Generation (October 2002)* and the updated traffic generation rates in the RMS TDT 2013/04a documents.

Strictly speaking, the proposed multi-dwelling development with 30 dwellings is classified as "high density – i.e. *a development containing more than 20 dwellings*. For the purposes of this assessment, however, the "medium density" traffic generation rates have been adopted, as indicated below.

Medium Density Residential 0.4-0.5 peak hour vehicle trips per 1 & 2 bedroom dwellings

Application of the above "medium density" traffic generation rates to the proposed development containing 30 dwellings, yields a traffic generation potential of 15 vehicle trips during the weekday morning and afternoon peak periods. Typically, this will comprise 3 trips IN/12 trips OUT during the morning peak and 12 trips IN/3 trips OUT during the afternoon peak.

These peak period traffic volumes are minimal and represent, on average, 1 additional vehicle trip every 4 minutes during the weekday peak periods. These additional trips fall within typical daily fluctuations of the local road network and will have minimal impacts on the surrounding road network.

Muswellbrook LEP 2009 also permits residential building heights of up to 8.5m on the subject site. Essentially, the planning controls dictate that a the proposed development is permissible and envisaged, as is the traffic activity associated with that density.

Accordingly, the road network operation is expected to remain at the same level of service and is therefore supportable on traffic grounds.

Parking Assessment

The off-street parking rates applicable to the proposed development are specified in the Muswellbrook DCP 2009, Section 16 – Car Parking and Access document in the following terms:

Multi Dwelling Housing	
1 bedroom dwelling:	1 car parking space per dwelling
2 bedroom dwelling:	1.5 car parking space per dwelling (the 0.5 space is to remain as common property)
Visitors:	1 car parking space per 5 dwellings
Car wash bay:	1 car wash bay for any development containing more than 10 dwellings

Application of the above MDCP 2009 car parking rates to the proposed development containing 30 dwellings, yields an off-street car parking requirement of 49 spaces, as indicated below:



MDCP 2009 Car Parking Requirements								
Residential: 42 spaces (including 12 spaces as common propert								
Visitors:	6 spaces							
<u>Car wash bay:</u>	<u>1 space</u>							
Total:	49 spaces							

The proposed development makes provision for 49 cars (including 5 accessible spaces), thereby satisfying Council's MDCP 2009 numerical requirements.

Design Layout Compliance

The geometric design layout of the parking area has been reviewed and are in compliance with AS2890.1:2004. In particular, the following key compliances are noted:

- 5.4m long x 2.4m wide car spaces in accordance with User Class 1A requirements, with a maximum crossfall of 5.0% (1:20) to 6.25% (1:16), depending on the direction
- 5.4m long x 4.8m wide accessible car spaces in accordance with AS2890.6:2009 requirements, with a maximum crossfall of 2.5% (1:40) in any direction
- minimum 1m "aisle extensions" at the dead-ends of the car park
- maximum 150mm high kerbs for parking spaces located adjacent to planter beds
- no obstructions within the "design envelope" of any car parking spaces

The proposed vehicular access and parking arrangement has been designed to accommodate the swept turn path requirements of the B99 & B85 design vehicles, allowing them to enter and exit the site via the proposed main driveway in a forward direction at all times, with the exception of Dwellings 1-10 which have direct access off Tindale Street.

The proposed design can also accommodate a 6.4m long small rigid truck, with turning bays provided at the rear of the site, allowing the truck to also enter and exit the site in a forward direction.

A copy of the swept turn paths are provided in Appendix D.

Whilst the proposed layout has been designed in accordance with the above Australian Standards, it is expected that a condition of consent would be imposed requiring reconfirmation of compliance at the Construction Certificate stage (CC). Any minor amendments required to the current DA design can therefore be addressed at the CC stage.

Conclusion

In summary, the proposal involves the construction of a new multi-dwelling residential development on the vacant eastern portion of the site, referred to as Stage 2, comprising 30 dwellings.

The proposed development is expected to generate just 15 vehicle trips during the weekday morning and afternoon peak periods, which will not result in any unacceptable traffic implications in terms of road network capacity.

Off-street parking is also proposed for 49 cars at various locations throughout the site, in accordance with MDCP 2009's numerical parking rates, whilst the parking layout complies with AS2890.1.

In the circumstances, it is concluded that the proposed development will not result in any unacceptable traffic, parking, or access implications.



Please do not hesitate to contact me should you have any comments or questions.

Kind regards

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Chris Palmer Director B.Eng (Civil), MAITPM

Attachments:

- 1. DA2021/26 approved architectural plans
- 2. Proposed architectural plans
- 3. Bus network map and timetable
- 4. Swept turn paths



Appendix A

DA2021/26 approved architectural plans





Appendix B

Proposed architectural plans





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219 St. Johns Rd m.au Forest Lodge 2037 m.au Nominated Architect: Oliver Steele 7474 (C) MULTI-RESIDENTIAL DEVELOPMENT TINDALE INVESTMENTS PTY LTD

DRAWING NAME Description DA SUBMISSION

PROPOSED 3D SITE VIEV	V dwg number	01-01
REVISION	DATE	SCALE
0	09/03/2023	





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DRAWING NAME	PROPOSED 3D SITE VIEW	DWG NUMBER
DESCRIPTION	REVISION	DATE
DA SUBMISSION	0	09/03/2023

01-03

SCALE







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DRAWING NAME P DESCRIPTION R DA SUBMISSION C

PROPOSED 3D SITE VIEW	$N_{\rm dwg number}$	01-04
REVISION	DATE	SCALE
0	09/03/2023	







Appendix C

Bus network map and timetable

Reg Osborn Pty Ltd | ABN 33 000 400 313 | 53-55 Maitland Street (PO Box 727) Muswellbrook NSW 2333 T 02 6543 1271 | E osborns@bigpond.net.au | osborns.com.au

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HAIL DRIVER

411 / 412 / 413

TRANSPORT

EFFECTIVE AUGUST 2022 Muswellbrook Town Bus Service Timetable

<u>DSBDRAV</u>S

418 / 419

		MON	MONDAY-FRIDAY (EXCLUDING PUBLIC HOLIDAYS)					SATURDAY MORNING				
	411 / 412 / 413	Loop 1				Loop 2		Loop 1				
	Depot	9.10am	-	-	-	1.05pm	-	9.10am	-	-	-	
g	NRMA	-	10.35am	12.00pm	12.38pm	1.10	1.40pm	-	10.35am	12.00pm	12.38pm	
L L	Railway Station	-	10.39	12.04	-	1.15	1.44	-	10.39	12.04	-	
tree	Maitland & Sydney Street	9.12	10.42	12.07	-	-	1.46	9.12	10.42	12.07	-	
S S	Wollombi Road	9.15	10.45	12.10	-	-	1.48	9.15	10.45	12.10	-	
411 / Sydney Street Loop	Tobruk Avenue	9.20	10.49	12.15	-	-	1.52	9.20	10.49	12.15	-	
S I	Nowland & Skellatar Street	9.25	10.54	12.17	-	-	1.58	9.25	10.54	12.17	-	
4	Lorne & Maitland Street	9.28	10.57	-	-	-	2.01	9.28	10.57	-	-	
	Railway Station	9.32	10.59	-	-	-	2.04	9.32	10.59	-	-	
a	Brook Medical Centre	9.35	11.02	-	12.41	-	2.06	9.35	11.02	-	12.41	
412 / Northern Loop	Hospital	9.37	11.05	-	12.44	-	2.08	9.37	11.05	-	12.44	
hern	Lexia & Queen Street	9.44	11.11	-	12.46	-	2.14	9.44	11.11	-	12.46	
ort	Bligh & Hastings Street	9.50	11.16	-	12.53	-	2.20	9.50	11.16	-	12.53	
2/2	Barrington & Cousins Street	9.53	11.20	-	12.55	-	2.22	9.53	11.20	-	12.55	
4	Wilkins & Ford Street	9.57	11.24	-	1.04	-	2.26	9.57	11.24	-	1.04	
	NRMA	10.05	11.31	-	-	-	2.30	10.05	11.31	-	-	
	Railway Station	10.08	11.36	-	-	-	2.35	10.08	11.36	-	-	
do	Depot	-	-	-	1.10	-	-	-	-	-	1.10	
r F	Tobruk Avenue	-	-	-	-	-	2.37	-	-	-	-	
loo	Nowland & Skellatar Street	10.13	11.39	12.17	-	1.18	2.38	10.13	11.39	12.17	-	
dhb	Cassidy Ave & Rutherford Road	10.18	11.42	12.23	-	1.22	2.42	10.18	11.42	12.23	-	
413 / Highbrook Loop	Calgaroo Ave & Woollybutt Way	10.21	11.48	12.27	-	1.29	2.49	10.21	11.48	12.27	-	
413	New England Highway	10.23	11.53	12.33	-	1.31	2.51	10.23	11.53	12.33	-	
	Hospital – Opposite	10.32	11.59	12.36	-	1.36	-	10.32	11.59	12.36	-	
	Depot	-	-	-	-	-	2.56	-	-	-	-	

	418 / 419	MONDAY-FRIDAY (EXCLUDING PUBLIC HOLIDAYS)						SATURDAY MORNING			
	4187419	Loop 1				Loop 2		Loop 1			
	Depot	9.20am	-	-	-	1.58pm	-	9.20am	-	-	-
	NRMA	-	10.13am	11.13am	12.13pm	-	2.22pm	-	10.13am	11.13am	12.13pm
	Railway Station	-	10.17	11.17	12.17	-	2.24	-	10.17	11.17	12.17
	Bimbadeen Drive	9.23	10.23	11.23	-	-	2.28	9.23	10.23	11.23	-
Eastlinks Loop	Henry Dangar Drive	9.25	10.25	11.25	-	-	2.30	9.25	10.25	11.25	-
ks L	Jeans Street	9.27	10.27	11.27	-	-	2.32	9.27	10.27	11.27	-
stlin	Jenkins Street	9.31	10.31	11.31	-	-	2.35	9.31	10.31	11.31	-
/ Ea:	Acacia Drive	9.33	10.33	11.33	-	-	2.37	9.33	10.33	11.33	-
418	Ironbark Road & Edinglassie Drive	9.37	10.37	11.37	-	-	2.41	9.37	10.37	11.37	-
	Jillaroo Way & Ironbark Road	9.41	10.41	11.41	-	-	2.45	9.41	10.41	11.41	-
	Woollybutt Way	9.44	10.44	11.44	-	-	2.48	9.44	10.44	11.44	-
	Back of Aldi	9.45	10.45	11.45	-	-	2.49	9.45	10.45	11.45	-
	Railway Station	9.50	10.50	11.50	-	-	-	9.50	10.50	11.50	-
	Brook Medical Centre	9.54	10.54	11.54	-	2.03	-	9.54	10.54	11.54	-
	Hospital	9.56	10.56	11.56	-	2.07	-	9.56	10.56	11.56	-
Loop	Bowman & Queen Streets	9.59	10.59	11.59	-	2.08	-	9.59	10.59	11.59	-
	Queen & Holsworthy Streets	10.03	11.03	12.03 pm	-	2.12	-	10.03	11.03	12.03 pm	-
Queen	Lohnro Place	10.04	11.04	12.04	-	2.13	-	10.04	11.04	12.04	-
419 /	Cabernet Street	10.07	11.07	12.07	-	2.16	-	10.07	11.07	12.07	-
4	Hospital – Opposite	10.11	11.11	12.11	-	2.20	-	10.11	11.11	12.11	-
	Depot	-	-	-	12.21	-	2.56	-	-	-	12.21



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Appendix D

Swept turn paths







