



TRANSPORT AND TRAFFIC PLANNING ASSOCIATES

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Ref: 18183

Diep Hang
Senior Development Planner
Cumberland City Council

Dear Diep

**Proposed Multi-Storey Carpark for Sydney Murugan Temple
DA2020/0018
7-9 Belinda Place & 217 Great Western Highway, Mays Hill
Environmental Capacity on Belinda Place**

Based on consultation with TfNSW, the existing access on the Great Western Highway will be restricted to 25 car parking spaces. As such, the remaining 303 spaces with the following breakdown will be accessed via Belinda Place:

- 77 on-grade parking spaces (minus the above 25 spaces and the 12 displaced spaces)
- 226 as part of the proposed multi-storey carpark (comprising 223 multi-storey space and 3 on-grade spaces for service vehicles).

The temple will allocate the 48 car parking spaces on Level 4 of the proposed multi-storey carpark to staff, comprising of priests, cooks, doctors, nurses, volunteers, etc. during the special/major events. Based on the above, a total of 252 car parking spaces will be available for visitors via the Belinda Place access.

As discussed in Section 6.5 of the TTPA's Traffic and Parking Impact Assessment Report dated August 2020, Belinda Place has been designed with the characteristics of a collector road based on the following:

- Belinda Place has a road reserve of 20m and 3.5m verge in accordance with Holroyd Development Control Plan 2013, Part B, Table I
- Belinda Place has a maximum speed of 50kph in accordance with Table 4.6 of RMS Guide to Traffic Generating Developments dated October 2002

- Belinda Place collects traffic from Peggy Lane, in accordance to the design characteristics and definition of a minor collector provided in the widely accepted Australian Model Code for Residential Development (AMCORD)

The desirable environment and absolute maximum capacity in relation to a collector are as follows:

Collector	vtp/h	
	Environmental Goal	Absolute Maximum
	300	500

The traffic surveys and traffic assessment outcome indicate the traffic movements along Belinda Place for the existing and post-development circumstances, as follows:

	vtp/h
Existing	13
Post Development - Scenario 1 (with existing driveway off the GWH)	13+344 (357)
Post Development - Scenario 2 (without existing driveway off the GWH)	13+501 (514)
Post Development - Scenario 3 (with access to 25 car spaces via the existing driveway off the GWH)	13+462 (475)

The assessment indicates that the traffic on Belinda Place with the restricted access off the Great Western Highway will remain under its absolute capacity of 500.

The above projected traffic generation has been conservatively assumed to be related to visitors' arrivals and departures. As discussed, the Level 4 car parking spaces will be allocated to staff only, which is expected to arrive (prior to the start of the events) and depart (after the end of the events) outside of the Temple's peak hours.

The non-overlapping traffic between the staff and visitor vehicle movements will result in 402 vehicles per hour on Belinda Place, which is a significant reduction of 73 vehicle trips per hour.

It should also be noted that the major/special events occur only 24 days per year (6.7%).

While the road safety audit prepared by J. Wyndham Prince indicated no significant safety concerns with the proposed multi-storey carpark, the applicant is willing to liaise with Council in providing the following traffic calming measures to improve safety for all users as part of the proposed development:

- provision of a 40kmph speed limit via signage and pavement marking (a reduction from the existing 50kmph speed limit). The sign will alert drivers to the lower speed limit. This creates a safer road environment for all road users, particularly for

pedestrians. The lower speed limit also helps in reducing the number and severity of crashes.

- provision of speed tables along Belinda Place (see figure below). The humps will effectively slow down vehicles to 20 kph to 25 kph.



I trust the above had provided adequate assessment demonstrating that the projected traffic on Belinda Place in relation to the proposed multi-storey carpark will remain under the absolute capacity of Belinda Place during the occasional special/major events.

Should you have any questions or require any further information, please do not hesitate to contact me on (02) 9411 5660.

Yours faithfully

Meg Kong

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Associate
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