

TRAFFIC MANAGEMENT OF THE CAR PARK AREA OF THE PROPOSED SCHOOL

Magpie Hollow Road, South Bowenfels

Prepared for: Oneschool Global

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1. INTRODUCTION

Motion Traffic Engineers was commissioned by Oneschool Global to prepare a traffic management of the proposed school car park at Lot 1 Magpie Hollow Road in South Bowenfels for Oneschool Global

The traffic management plan is to ensure car parking demand is met on site for the peak parking usage for the drop off and pick up period on a school day without overspill outside of the school. The traffic management plan is to minimise congestion within the car park and public road.

Car parking is provided on the ground level. Forty nine care spaces are provided. The school also proposes to use a mini-van (such as Toyota Hi Ace) to pick up and drop within the suburbs nearby. The mini-van with have capacity of nine to eleven students plus driver. Up two ten mini-vans will be used.

The school will cater for primary and high school students. A total of 114 children will be taught with year 12 students represent ten percent of the student population (11 students).

The school catchment area will be Lithgow and the Katoomba area. The use of mini vans will benefit students and parents further away especially in the Katoomba area.

The report begins by assessing the car parking requirements as set out by Lithgow City Council.

Forty-nine car spaces and six van drop off and pick up stops are proposed.

The layover area for the min-vans are not located on site.

2. COUNCIL CAR PARKING REQUIREMENTS

Lithgow City Council states the car parking requirements for a school in the Development Control Plan (2021) as follows:

- Primary school: 1 per staff plus sufficient car spaces for set down and pick up areas, bus parking and for auditoriums and sports grounds
- Secondary Schol: 1 per staff plus 1 per 10 cars plus sufficient car spaces for set down and pick up areas, bus parking and for auditoriums and sports grounds, with 1 space for 10 students for a student over 17 (eligible for a driver's license)

Twenty staff will require 20 car spaces.

The remaining 29 car spaces will be available for parents for drop off and pick up.

3. CAR PARKING FOR A TYPICAL SCHOOL DAY

There are 29 car spaces will be available for parents for drop off and pick up for 114 children.

Twenty nine car spaces will be available for parents and students eligible for driver's license. Assuming ten percent will be year 12 students, then two car spaces will be occupied by students.

Twenty seven car spaces will be available for parents for the 114 students.

If ten mini vans are used with nine per children per van, then 90 students will be transported by mini vans.

It is estimated 10 percent of children will live close enough for a parent can walk with their children to and from school or alone for older students,

Hence the expected that 22 students will be dropped off and pick up by their children with 27 car spaces available.

All car parking demand can be met on site.

4. CAR PARKING FOR "SPECIAL EVENTS"

Council's Development Control Plan requires a (car) parking assessment for auditoriums, sports grounds and other events such as parent's days.

The school has no plans to build an auditorium.

The school will have sports days perhaps every term for the students. Parents will generally not be permitted to attend.

Parent's days occur after 3:15pm (typically a 15 minute period and over more than one day)) and are staggered with a parent given a time slot. to avoid parent's waiting unnecessarily. This arrangement also leads to all car parking to me met on site.

5. TRAFFIC MANAGEMENT

As discussed previously, the proposed school can be met on site.

A traffic management will be provided for the arrival and departure period.

The survey of the Illawarra Christian School showed that the arrival period is 30 minutes before school starts. The children that are dropped off by more than 15 minutes before start

spend more time socialising with other students in the outdoor areas within the school for a relatively short time period. The school staff of the proposed school will allow students to wait within school grounds for school to start.

A staff member will be outside of the class rooms to manage student activity before school.

The drop off period observed for Illawarra Christian School was less than 5 minutes with many of the older primary and all of the high school students walking from the car to the school. Younger primary school are more likely to be escorted to the school from the car.

A staff member will be present at the van drop off and pick up zones to assist children alighting and boarding.

A staff member will be present to assist in directing parents to vacant car spaces when the car park is full to reduce circulation within the car park. The staff member will be trained traffic controller as per TfNSW requirements with guidance wands and personal protective equipment as per a traffic controller.

Overall, the availability of on-site car parking, the use of mini-vans for school transport, the arrival of students over 30 minutes, staff managing car movements will reduce and eliminate local traffic congestion in the morning drop off of students.

The general pick up patter from parents picking up their children is that parents have parked their cars before 3pm (or ten minutes before school ends). This leads to parents in their cars departing the school in a ten minute period. That is localised traffic congestion generally occurs in the pickup period rather than during the drop off period.

A staff member with traffic controller experience and qualification will manage drivers leaving the car park in the circumstances when the car park is full. Blocks of car spaces will depart one at a time as per the staff members directions to avoid congestion within the car park. An orderly departure for parents will occur.

6. CONCLUSIONS AND RECOMMENDATIONS

All car parking demand will be met on site.

A traffic management plan will be required to ensure there is no local congestion within the car park drivers arriving and departing the school

