

November 6th, 2020

Ruth O'Brien
Principal Planner
Planning Ingenuity
PO Box 715, Miranda NSW 1490

By Email: jill@bluegum.act.edu.au

Dear Jill,

Updated Acoustic Comment and Advice Proposed Preschool & Community School – 1 Rosemead Road, Hornsby, NSW

Introduction

I refer to our recent communications regarding the above matter.

The most recent update of my acoustic assessment report in relation to the new Blue Gum Preschool & Community School proposed for 1 Rosemead Road, Hornsby, NSW is presented in the document:

Acoustic Assessment Report: Proposed Preschool & Community School – 1 Rosemead Road, Hornsby, NSW (NG Child & Associates; Version 5; May 6th, 2020.

Since the preparation of the May 6th, 2020 report, some relatively minor changes have been made to the plan for the outdoor areas of the development, including in particular aspects of proposed car parking arrangements.

The original and modified proposals are summarised in Attachments 1 and 2, respectively.

The modified proposal as presented in Attachment 2 includes the following changes:

1. **Changed Car Park Layout:** Transfer of the proposed car parking spaces from the 1A Rosemead Road boundary of the car park to the opposite side of the car park, adjacent to the outdoor play area, coupled with a proposed reduction in the height of the boundary acoustic fence between the car park area and the 1A Rosemead Road property from 2100 mm to 1800 mm.
2. **Gradual Reduction in Height of Side Fence:** A gradual reduction in the height of the proposed 1800 mm side fence between the development and the 1A Rosemead Road property near the front or Rosemead Road site boundary where the side fence will intersect the 1200 mm non-acoustic front property fence.
3. **Change in Fence Style on William Street Boundary:** Replacement of the proposed 1800 mm lap and cap timber acoustic fence with a more open non-acoustic fence along the rear or William Street site boundary.

Acoustic Advice

My acoustic advice regarding the three issues summarised above is as follows:

1. Changed Car Park Layout

Version 5 of my acoustic report involved an increase in the recommended height of the acoustic fence proposed for the boundary between the car park area and the adjacent residential property at 1A Rosemead Road from 1800 mm to 2100 mm.

This recommended increase in fence height was intended to ensure that wheel on pavement and other noise from vehicles parking immediately adjacent to the residential property boundary could be contained in a manner that would ensure no undue or non-compliant noise impacts at the adjoining residential boundary.

In my opinion, the transfer of car spaces to the opposite side of the car park overcomes the need for additional fence height by introducing greater distance between the actual car parking activities and the affected residential boundary.

On this basis, it is my opinion that given the revised car park layout reflected in the diagram provided at Attachment 2, a solid form 1800 mm double lapped and capped timber acoustic fence will along the boundary between the proposed car park and the adjoining residential property at 1A Rosemead Road will provide sufficient acoustic protection to ensure that no undue or non-compliance acoustic impacts due to motor vehicle noise emissions are experienced at the 1A Rosemead Road residential boundary in this area.

It is also noted that limitation of the boundary fence height to 1800 mm may be more in keeping with existing fence heights in the general vicinity of the development site.

2. Gradual Reduction in Height of Side Fence

Version 5 of my acoustic report included an 1800 mm high double lapped and capped timber acoustic fence along the south-western boundary fence section between the development site and the adjoining property at 1A Rosemead Road, which is the fence section between the car park area and the front or Rosemead Road boundary.

What is proposed is a gradual reduction in the height of this fence from 1800 mm to 1200 mm over the relatively short fence section between the storage shed and associated waste storage area shown on this boundary (refer Attachment 2) and the front or Rosemead Road fence line, so that the timber fence aligns in height with the 1200 mm non-acoustic front fence.

This short fence section is not acoustically sensitive, and the proposed gradual reduction or "rake-down" in fence height is not considered to involve any risk in terms of acoustic amenity for the neighbouring 1A Rosemead Road property, while offering what would appear to be an overall improvement in terms of design and visual amenity.

3. Change in Fence Style on William Street Boundary

Version 5 of my acoustic report included an 1800 mm high double lapped and capped timber acoustic fence along the southern or William Street property boundary. What is proposed is the replacement of this timber acoustic fence with some other form of more open style fencing. This property boundary adjoins a roadway (William Street) and is separated from potentially affected residential receivers by that roadway. On this basis, an acoustic fence is not strictly required on this property boundary, and in my opinion the more open style non-acoustic fence now proposed involves no risk of undue or non-compliant acoustic impacts on any nearby residential or other property.

Please contact me at any time if you have any questions regarding the matters raised in this letter, or if you require any further or more detailed information

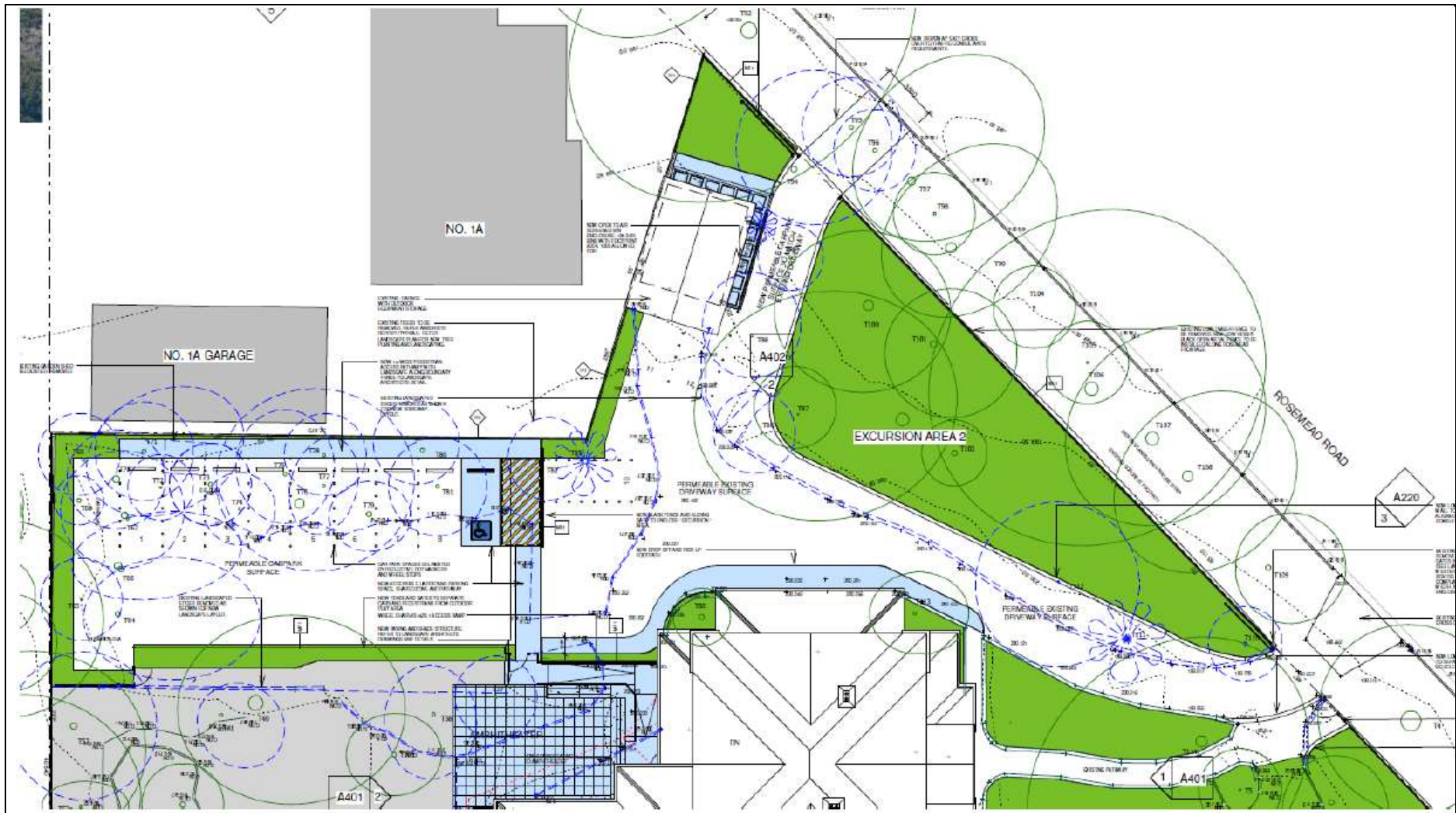
Yours Very Truly



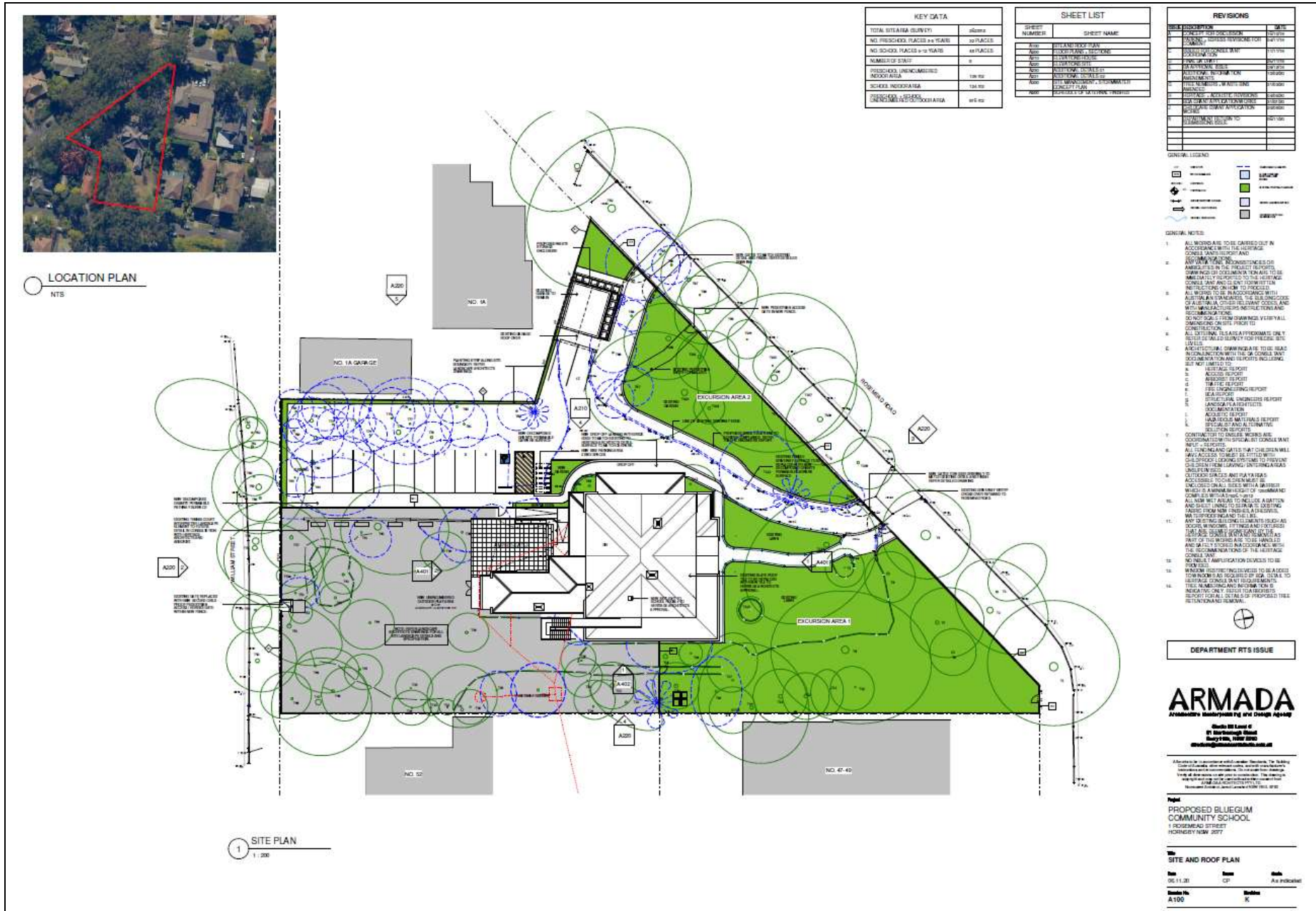
Noel Child
BSc (Hons), PhD, MIEA, MRACI
Principal, NG Child & Associates

Copy: Jill McLachlan
Education Director
Blue Gum Community School
1 Rosemead Road
Hornsby NSW 2077

By Email: jill@bluegum.act.edu.au



Attachment 1 – Proposal as Lodged



KEY DATA	
TOTAL UTILITY SURVEY	08/2016
NO. PROPOSED PLACES 0-10 YEARS	10 PLACES
NO. SCHOOL PLACES 11-19 YEARS	10 PLACES
NUMBER OF SITES	0
PROPOSED UNDEVELOPED SCHOOL AREA	100.00
SCHOOL IDENTIFIERS	100.00
CONCRETE AREAS	0.00
UNDEVELOPED COEXISTENCE	0.00

SHEET LIST	
SHEET NUMBER	SHEET NAME
ADD	PROPOSED ROOF PLAN
ADD	PROPOSED PLANS & SECTIONS
ADD	PROPOSED SITE PLAN
ADD	PROPOSED TRAFFIC
ADD	PROPOSED UTILITIES
ADD	PROPOSED UTILITIES (FORMATED)
ADD	CONCEPT PLAN
ADD	PROPOSED UTILITIES (FORMATED)

REVISIONS		
NO.	DESCRIPTION	DATE
1	PROPOSED ROOF PLAN	08/2016
2	PROPOSED PLANS & SECTIONS	08/2016
3	PROPOSED SITE PLAN	08/2016
4	PROPOSED TRAFFIC	08/2016
5	PROPOSED UTILITIES	08/2016
6	PROPOSED UTILITIES (FORMATED)	08/2016
7	CONCEPT PLAN	08/2016
8	PROPOSED UTILITIES (FORMATED)	08/2016
9	PROPOSED UTILITIES (FORMATED)	08/2016
10	PROPOSED UTILITIES (FORMATED)	08/2016
11	PROPOSED UTILITIES (FORMATED)	08/2016
12	PROPOSED UTILITIES (FORMATED)	08/2016
13	PROPOSED UTILITIES (FORMATED)	08/2016
14	PROPOSED UTILITIES (FORMATED)	08/2016
15	PROPOSED UTILITIES (FORMATED)	08/2016
16	PROPOSED UTILITIES (FORMATED)	08/2016
17	PROPOSED UTILITIES (FORMATED)	08/2016
18	PROPOSED UTILITIES (FORMATED)	08/2016
19	PROPOSED UTILITIES (FORMATED)	08/2016
20	PROPOSED UTILITIES (FORMATED)	08/2016

GENERAL LEGEND

	PROPOSED BUILDING FOOTPRINT
	PROPOSED SITE
	PROPOSED ROAD
	PROPOSED UTILITY
	PROPOSED TREE
	PROPOSED SHRUB
	PROPOSED FENCE
	PROPOSED WALL
	PROPOSED GATE
	PROPOSED SIGN
	PROPOSED LIGHT
	PROPOSED BENCH
	PROPOSED BIN
	PROPOSED TREE
	PROPOSED SHRUB
	PROPOSED FENCE
	PROPOSED WALL
	PROPOSED GATE
	PROPOSED SIGN
	PROPOSED LIGHT
	PROPOSED BENCH
	PROPOSED BIN

- GENERAL NOTES
1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LEGISLATION, CODES AND REGULATIONS AND THE REQUIREMENTS OF THE PROJECT REPORTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.
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DEPARTMENT RT'S ISSUE

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 Architects, Engineers, Planners and Design Agency

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Proposed by: **PROPOSED BLUEGUM COMMUNITY SCHOOL**
 1 HORNBY ROAD STREET
 HORNBY NSW 2077

Site and Roof Plan

Rev	Date	Author
05/11/20	05/11/20	As per contract

Revision No: A100
 Revision: K

Attachment 2 – Modified Proposal