



Noise Impact Assessment

Proposed Child Care Centre

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Document Register

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All information provided in this report relates to acoustics only. Further consultation may be required with other disciplines (eg. fire, mechanical, hydraulic, etc.) prior to implementing any recommendations contained within this report.

TABLE OF CONTENTS

1.Introduction	4
2.Proposal and Site Description	4
3.Receivers and Noise Monitoring Location.....	5
4.Existing Ambient Noise Levels	7
4.1 Meteorological conditions	7
4.2 Background noise levels.....	7
5.Noise Criteria	8
5.1 Relevant Policies and Guidelines.....	8
5.1.1 Mid-Western Regional DCP 2013	8
5.1.2 NSW Child Care Planning Guideline	8
5.1.3 AAAC Guideline for Child Care Centre Acoustic Assessment.....	8
5.1.4 NSW Road Noise Policy 2011	9
5.2 Project Specific Criteria	9
6.Environmental Noise Assessment	10
6.1 Itemised noise sources and assumptions.....	10
6.2 Predicted noise impacts.....	11
7.Road Traffic Noise.....	12
8.Recommendations	13
9.Conclusion	14
10. Appendices	15
10.1 Noise Monitoring Charts	15
10.2 Development Plans.....	19

TABLE INDEX

<i>Table 1: Receiver locations</i>	<i>6</i>
<i>Table 2: Meteorological conditions – Mudgee NSW</i>	<i>7</i>
<i>Table 3: Measured ambient background noise levels</i>	<i>7</i>
<i>Table 4: Road Noise Policy 2011 Criteria.....</i>	<i>9</i>
<i>Table 5: Project specific criteria</i>	<i>9</i>
<i>Table 6: Itemised noise source</i>	<i>10</i>
<i>Table 7: Predicted noise impacts– outdoor play, mechanical plant and vehicle movements</i>	<i>11</i>
<i>Table 8: Predicted noise impacts– indoor play, mechanical plant and vehicle movements</i>	<i>11</i>

FIGURE INDEX

<i>Figure 1: Site location (source: Six Maps).....</i>	<i>4</i>
<i>Figure 2: Unattended Noise monitoring location (source: Six Maps)</i>	<i>5</i>
<i>Figure 3: Recommended acoustic barriers.....</i>	<i>13</i>

1. Introduction

Noise and Vibration Consultants was engaged by Younan Group Co Pty Ltd to prepare an environmental noise assessment for a proposed child care centre located at 30 Marskell Circuit, Mudgee. To facilitate the noise assessment, noise monitoring was conducted to determine the existing ambient noise levels in the vicinity of the proposed development, and to establish the criteria for onsite activities to nearby sensitive receivers.

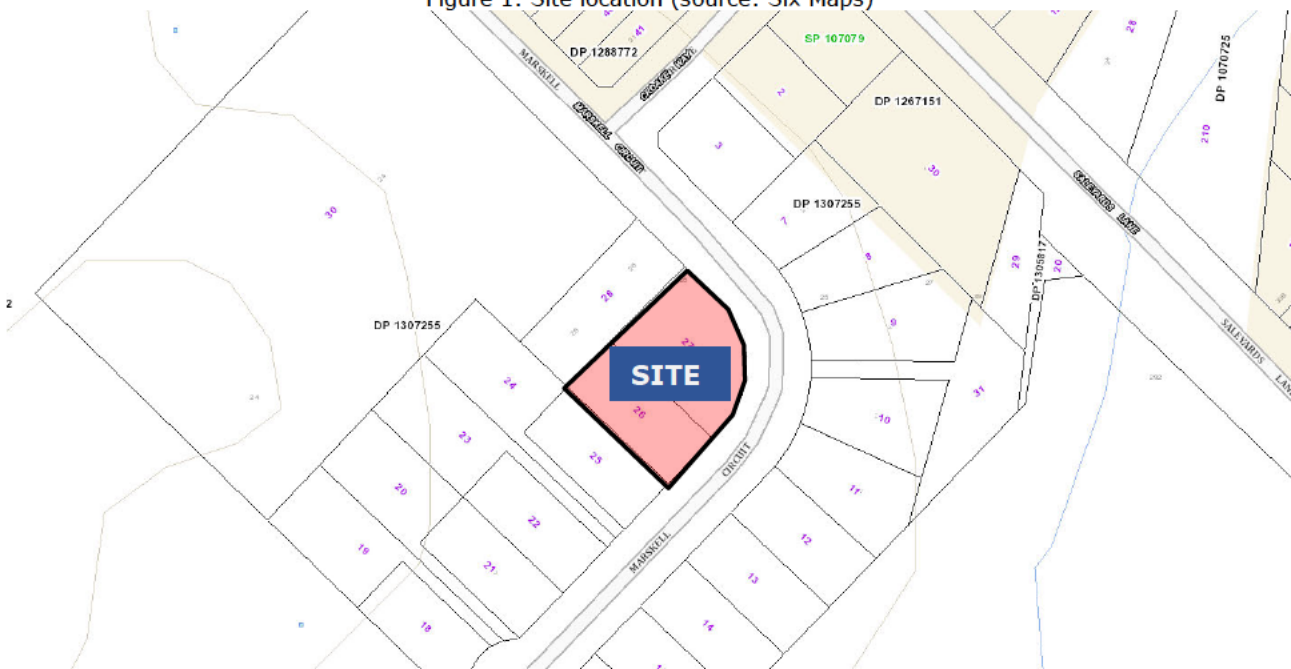
2. Proposal and Site Description

The site is described as 30 Marskell Circuit, Mudgee (Lot 26 and 27 on DP1307255) as shown in Figure 1. The site is currently located on a corner block of a new residential subdivision area. The acoustic environment consists of children playing (from another nearby childcare) and local traffic noise.

The proposal seeks the following:

- 3 indoor play areas, kitchen, kids toilet, staff toilet, staff room, office, foyer, store rooms, cot, nappy, and outdoor play area..
- On grade parking with a total of 18 spaces.
- A total of 72 children consisting of twelve 0-2 year olds, thirty 2-3 year olds and thirty 3-5 year olds.

Figure 1: Site location (source: Six Maps)

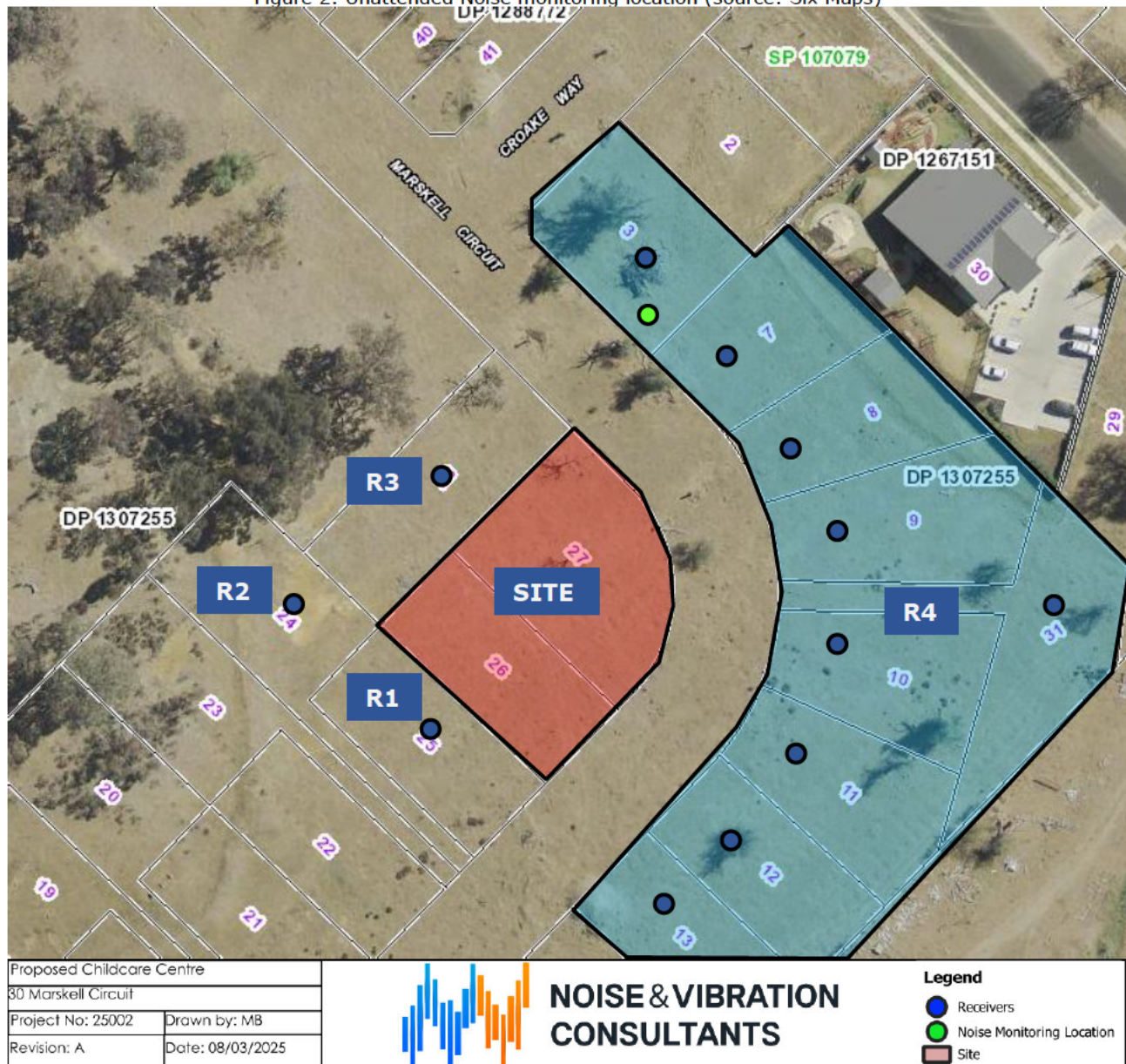


3. Receivers and Noise Monitoring Location

An environmental noise monitor was placed at 5A Croake Way, Mudgee to measure existing ambient background noise levels. The noise monitor was located in a free field position with the microphone approximately 1.4 metres above ground level. This location was chosen as considered to be representative of the acoustic environment of the nearest sensitive receivers in accordance with the Noise Policy for Industry (NPfI) (NSW EPA 2017). The noise monitor was set to record noise levels in "A" weighting, Fast response with 15 minute statistical intervals between 22nd and 29th February, 2025.

For the unattended noise monitoring location refer to M1 in Figure 2.

Figure 2: Unattended Noise monitoring location (source: Six Maps)



The nearest sensitive receivers are identified in Table 1.

Table 1: Receiver locations

Receiver ID	Receiver Address	Receiver Zone	Approximate Distance from Site
R1	32 Marskell Circuit, Mudgee	R1 – General Residential	Adjacent boundary
R2	34 Marskell Circuit, Mudgee	R1 – General Residential	Adjacent boundary
R3	26 Marskell Circuit, Mudgee	R1 – General Residential	Adjacent boundary
R4	5A Croake Way and 23-37 Marskell Circuit Mudgee	R1 – General Residential	18m (boundary to boundary)

Vacant residential lots are assumed to have single storey dwellings based on nearby constructed residential properties.

4. Existing Ambient Noise Levels

The following tables present the measured ambient noise levels from the unattended noise survey and meteorological conditions. Any periods of inclement weather or extraneous noise are omitted from the measured data prior to determining the overall results.

4.1 Meteorological conditions

Meteorological observations during the unattended noise monitoring survey were obtained from Bureau of Meteorology website as shown in Table 2 below.

Table 2: Meteorological conditions – Mudgee NSW

Day	Date	Rainfall (mm)	Wind			
			9am		3pm	
			Direction	Speed (km/h)	Direction	Speed (km/h)
Saturday	22/02/2025	0	ENE	2	ENE	11
Sunday	23/02/2025	0	SE	6	WSW	24
Monday	24/02/2025	0	-	Calm	WSW	13
Tuesday	25/02/2025	0	SE	15	ESE	9
Wednesday	26/02/2025	0	SSE	9	WSW	6
Thursday	27/02/2025	0	S	6	W	11
Friday	28/02/2025	0	-	Calm	WNW	28
Saturday	01/03/2025	0	SE	7	-	-

4.2 Background noise levels

The measured road traffic noise levels at the monitoring location are as follows;

Table 3: Measured ambient background noise levels

Day	Date	Rating Background Level (RBL)		
		Day	Evening	Night
Saturday	22/02/2025	x	43.9	47.8
Sunday	23/02/2025	29.9	32.0	47.7
Monday	24/02/2025	35.4	42.5	36.5
Tuesday	25/02/2025	41.0	43.0	46.2
Wednesday	26/02/2025	35.9	37.7	48.3
Thursday	27/02/2025	34.8	39.4	43.8
Friday	28/02/2025	36.2	32.5	48.1
Overall RBL		36	39	48*

Review of the noise monitoring chart reveals that the night period was affected by extraneous noise (predominantly insect noise) . However, the proposal does not seek to operate during the night period. Refer to the appendix for noise monitoring charts of the measured noise levels.

5. Noise Criteria

To determine the appropriate noise criteria to be applied, a review of the Mid-Western Regional Development Control Plan (DCP), the DPIE Child Care Guideline and the AAAC Child Care Centre Guideline was conducted.

5.1 Relevant Policies and Guidelines

5.1.1 Mid-Western Regional DCP 2013

A review of the DCP was conducted and no specific acoustic criteria for child care centres is contained within the document

5.1.2 NSW Child Care Planning Guideline

Section 3.5 of the NSW Child Care Planning Guideline (DPIE 2021) states the following requirements;

"C23

A suitably qualified acoustic professional should prepare an acoustic report which will cover the following matters:

- identify an appropriate noise level for a child care facility located in residential and other zones*
- determine an appropriate background noise level for outdoor play areas during times they are proposed to be in use*
- determine the appropriate height of any acoustic fence to enable the noise criteria to be met."*

5.1.3 AAAC Guideline for Child Care Centre Acoustic Assessment

The Association of Australasian Acoustical Consultants Guideline for Child Care Centre Acoustic Assessment states the following requirements for child care centres.

"The noise impact from children at play in a child care centre differs from the domestic situation in that it is a business carried out for commercial gain, the number of children can be far greater than in a domestic situation and the age range of the children at the centre does not significantly vary over time as it would in a domestic situation. However, the noise from children is vastly different, in both character and duration, from industrial, commercial or even domestic machine noise. The sound from children at play, in some circumstances, can be pleasant, with noise emission generally only audible during the times the children play outside. Night time, weekend or public holiday activity is not typical and child care centres have considerable social and community benefit.

Base Criteria – With the development of child care centres in residential areas, the background noise level within these areas can at certain times, be low. Thus, a base criterion of a contributed Leq,15min 45 dB(A) for the assessment of outdoor play is recommended in locations where the background noise level is less than 40 dB(A).

Background Greater Than 40 dB(A) – The contributed Leq,15min noise level emitted from an outdoor play and internal activity areas shall not exceed the background noise level by more than 5 or 10 dB at the assessment location, depending on the usage of the outdoor play area.

AAAC members regard that a total time limit of approximately 2 hours outdoor play per morning and afternoon period should allow an emergence above the background of 10 dB (ie background +10 dB if outdoor play is limited to 2 hours in the morning and 2 hours in the afternoon).

Up to 4 hours (total) per day – If outdoor play is limited to no more than 2 hours in the morning and 2 hours in the afternoon, the contributed Leq,15 minute noise level emitted from the outdoor play shall not exceed the background noise level by more than 10 dB at the assessment location.

More than 4 hours (total) per day – If outdoor play is not limited to no more than 2 hours in the morning and 2 hours in the afternoon, the contributed Leq,15 minute noise level emitted from the outdoor play area shall not exceed the background noise level by more than 5 dB at the assessment location.

The assessment location is defined as the most affected point on or within any residential receiver property boundary. Examples of this location may be:

*1.5 m above ground level;
On a balcony at 1.5 m above floor level;
Outside a window on the ground or higher floors.”*

5.1.4 NSW Road Noise Policy 2011

The NSW Road Noise Policy (DECCW 2011) outlines the criteria for any increase in the total traffic noise level at the location due to a proposed project or traffic generating development. As Marskell Circuit is a local road the following criteria applies:

Table 4: Road Noise Policy 2011 Criteria

Road Category	Type of project/land use	Assessment Criteria– dBA	
		Day (7am to 10pm)	Night (10pm to 7am)
Local Road	Existing residences affected by additional traffic on existing local roads generated by land use developments	L _{Aeq} , (1 hour) 55	L _{Aeq} , (1 hour) 50

When the existing traffic noise levels already exceeds the L_{Aeq} 1 hour noise limits, the development should not increase the existing traffic noise levels by more than 2dB(A) as stated in Section 3.4 of the NSW Road Noise Policy 2011.

5.2 Project Specific Criteria

The project specific criteria based on the unattended noise monitoring (Section 4.2) is presented in Table 5.

Table 5: Project specific criteria

Time Period	Outdoor Play Criteria L _{eq} dB(A)	Indoor Play Criteria
Day 7am to 6pm	46	41
Evening 6pm to 10pm	N/A	N/A
Night 10pm to 7am	N/A	N/A

The evening and night time criteria are not specified as the development is not proposed to be operating during these periods.

6. Environmental Noise Assessment

6.1 Itemised noise sources and assumptions

Noise levels for children playing, mechanical plant, car movements and van deliveries were obtained from the *Association of Australasian Acoustical Consultants Guideline for Child Care Centre Acoustic Assessment Version 3.0*. Sound power levels for itemised noise sources are provided in Table 6.

Table 6: Itemised noise source

Description	Sound Power Level L_w
12 Children aged 0-2 years	79
30 Children aged 2-3 years	90 (87 for half children playing outdoors)
30 Children aged 3 to 6 years	92 (89 for half children playing outdoors)
Car (passby, door closure, car start)	81
Delivery van	86
Medium (double fan) condenser	70
Small exhaust fan (toilet, garbage)	60
Small kitchen exhaust fan	70

Delivery vans were based on 1 vehicle movement in a 15 minute period and car drop offs/pick ups were based on 6 movements in a 15 minute period.

Mechanical plant selection was not known at the time of assessment. Therefore typical mechanical plant equipment was assumed in accordance with the *Association of Australasian Acoustical Consultants Guideline for Child Care Centre Acoustic Assessment Version 3.0*.

All receivers were assumed to be single storey, as this is characteristic of the area. Additionally, no information was available at the time of assessment regarding neighbouring vacant lots.

6.2 Predicted noise impacts

The predicted noise impacts at the sensitive receiver locations from outdoor play, mechanical plant and vehicle movements are presented in Table 7. The results includes cumulative noise impacts from all itemised noise sources occurring simultaneously, acoustic barrier screening, distance attenuation and reduced kids playing at one time.

Table 7: Predicted noise impacts– outdoor play, mechanical plant and vehicle movements

Receiver	Predicted noise impact $L_{eq\ 15min}$ dB(A)	Criteria $L_{eq\ 15min}$ dB(A)	Complies Yes/No
R1	46	46	Yes
R2	45	46	Yes
R3	46	46	Yes
R4	45	46	Yes

Onsite activities during outdoor play times are predicted to comply with the assessment criteria on the condition the recommendations in Section 8 are implemented.

The predicted noise impacts at the sensitive receiver locations from indoor play, mechanical plant and vehicle movements are presented in Table 8. The results include cumulative noise impacts from all itemised noise sources occurring simultaneously, acoustic barrier screening, distance attenuation and transmission loss from the façade.

Table 8: Predicted noise impacts– indoor play, mechanical plant and vehicle movements

Receiver	Predicted noise impact $L_{eq\ 15min}$ dB(A)	Criteria $L_{eq\ 15min}$ dB(A)	Complies Yes/No
R1	40	41	Yes
R2	40	41	Yes
R3	40	41	Yes
R4	41	41	Yes

Onsite activities during indoor play times are predicted to comply with the assessment criteria on the condition the recommendations in Section 8 are implemented.

7. Road Traffic Noise

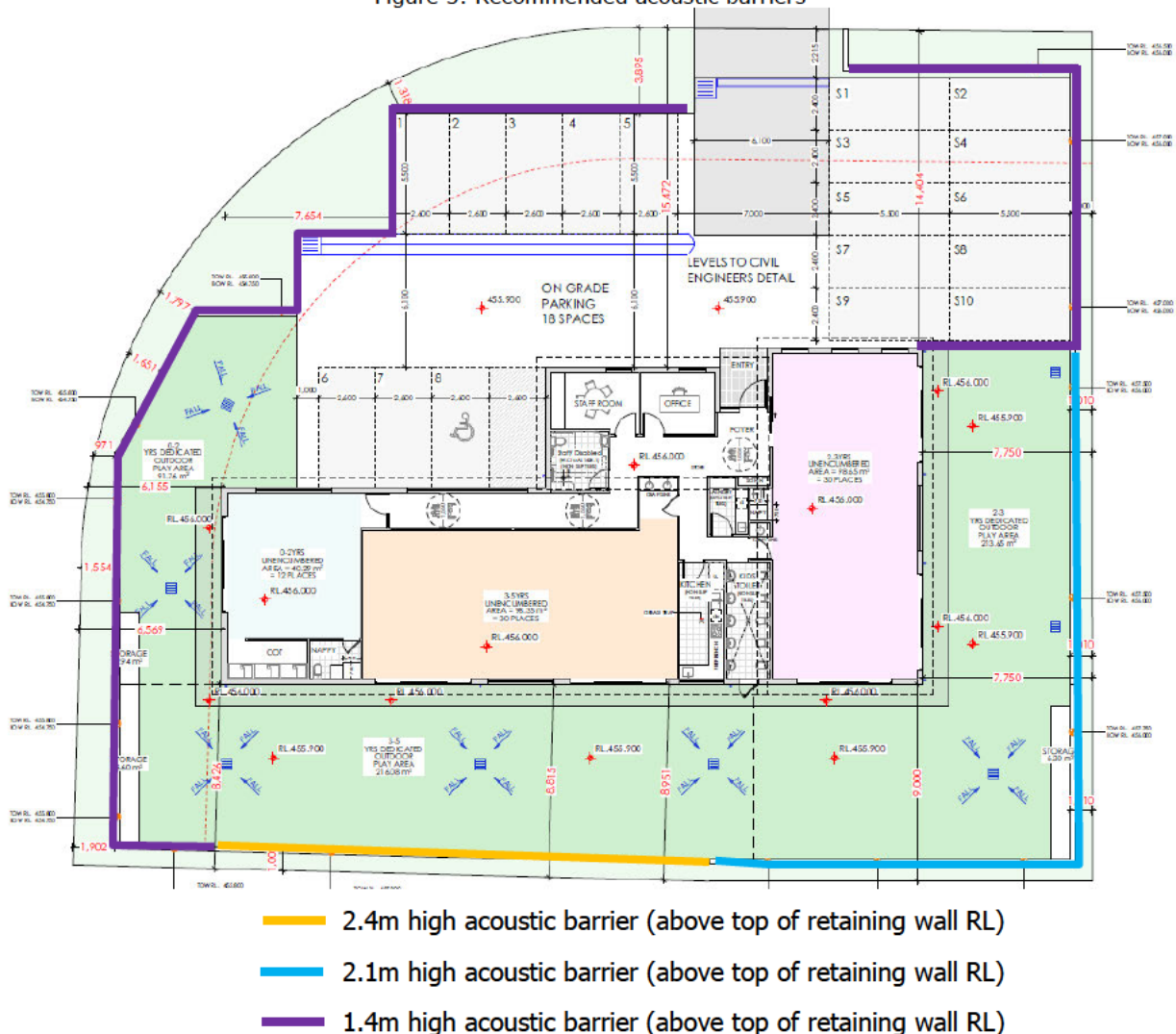
The proposal is predicted to generate a maximum of 216 car movements per day. Based on TfNSW guidelines for regional daily traffic movements per residential dwelling/lot, Marskell Circuit is predicted to generate a maximum of 150 vehicles per day. Based on a total of 366 vehicles movements per day, the predicted traffic impacts at residences on Marskell Circuit is predicted to be $L_{eq\ 1\ hour}$ 41dB(A), which is within the limits as outlined in Section 5.1.4.

8. Recommendations

Based on the predicted noise levels, noise impacts at the residential receiver locations are predicted to comply with the assessment criteria on the condition the following acoustic treatments and management controls are implemented:

- The maximum number of children playing outdoors simultaneously shall be limited to the following:
 - 0-2 years: 12 children
 - 2-3 years: 15 children
 - 3-6 years: 15 children
- Total outdoor playtime shall be limited to a maximum of 4 hours (2 hours in the morning and 2 hours in the afternoon)
- Mechanical plant selection was not known at the time of assessment. An assessment shall be conducted prior to construction certification once plant selection is known to confirm noise levels will be within the criteria.
- Acoustic barriers shall be constructed to the height and extent shown in Figure 3. The acoustic barrier should be constructed using either 16mm marine ply, masonry, 16mm thick lapped timber (minimum 40% overlap), 9mm fibre cement sheet, Hebel, Perspex, plywood, or other materials with a minimum surface density of 9kg/m². The barrier shall be maintained to be free of holes and gaps

Figure 3: Recommended acoustic barriers

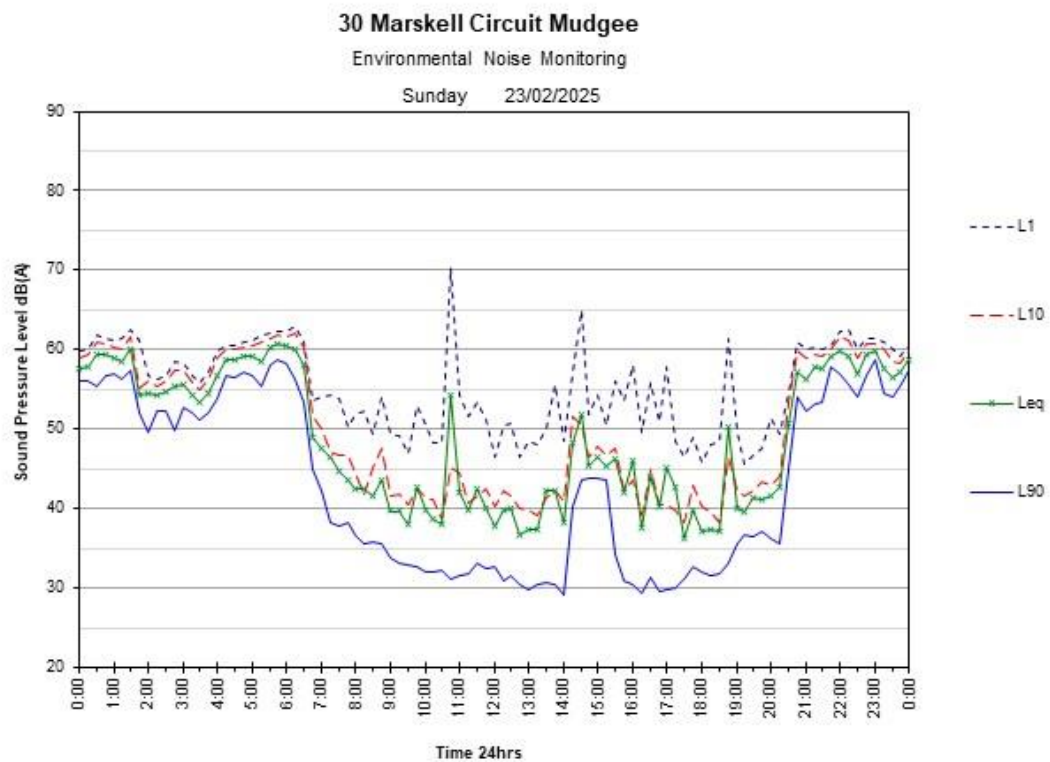
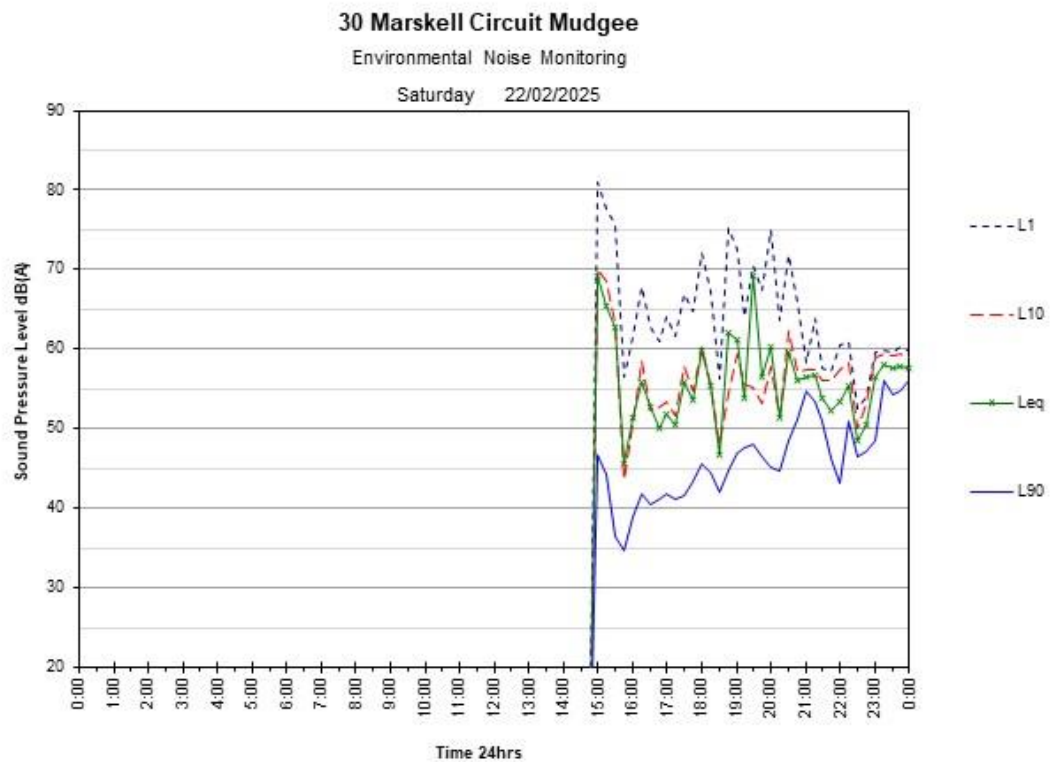


9. Conclusion

An environmental noise assessment was conducted for the proposed child care centre located at 30 Marskell Circuit, Mudgee. Compliance is predicted with the assessment criteria on the condition the acoustic treatments and management controls in Section 8 are implemented.

10. Appendices

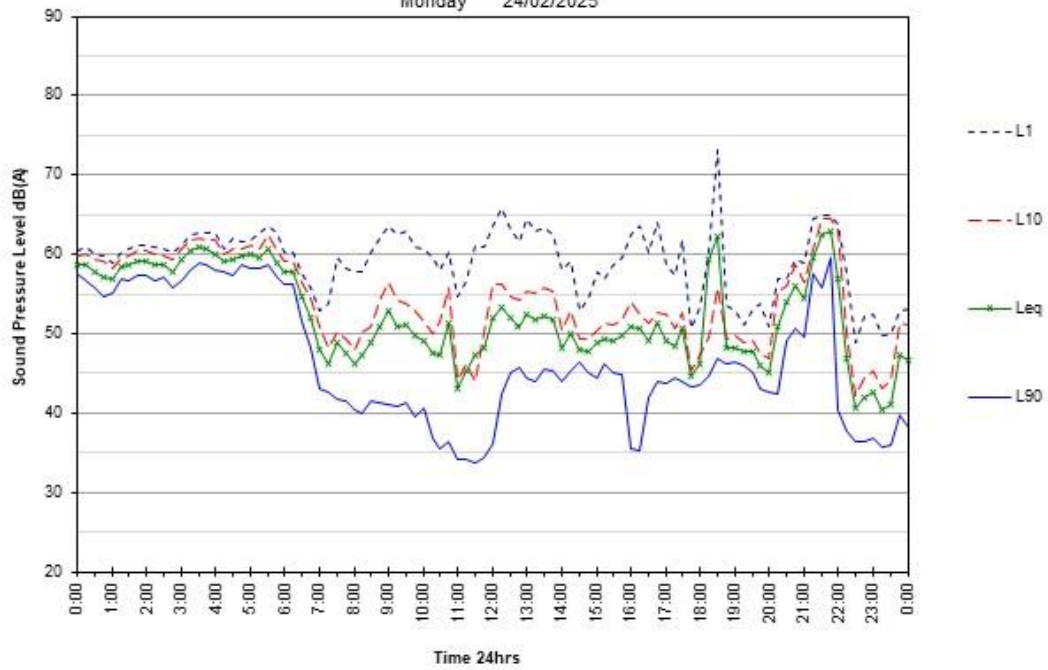
10.1 Noise Monitoring Charts



30 Marskell Circuit Mudgee

Environmental Noise Monitoring

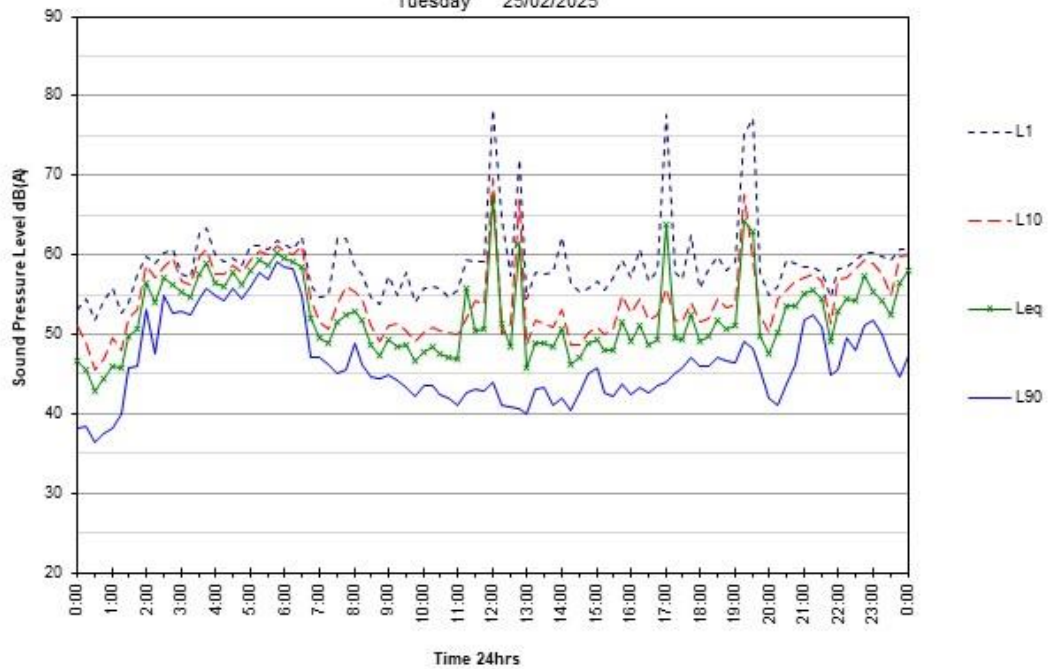
Monday 24/02/2025



30 Marskell Circuit Mudgee

Environmental Noise Monitoring

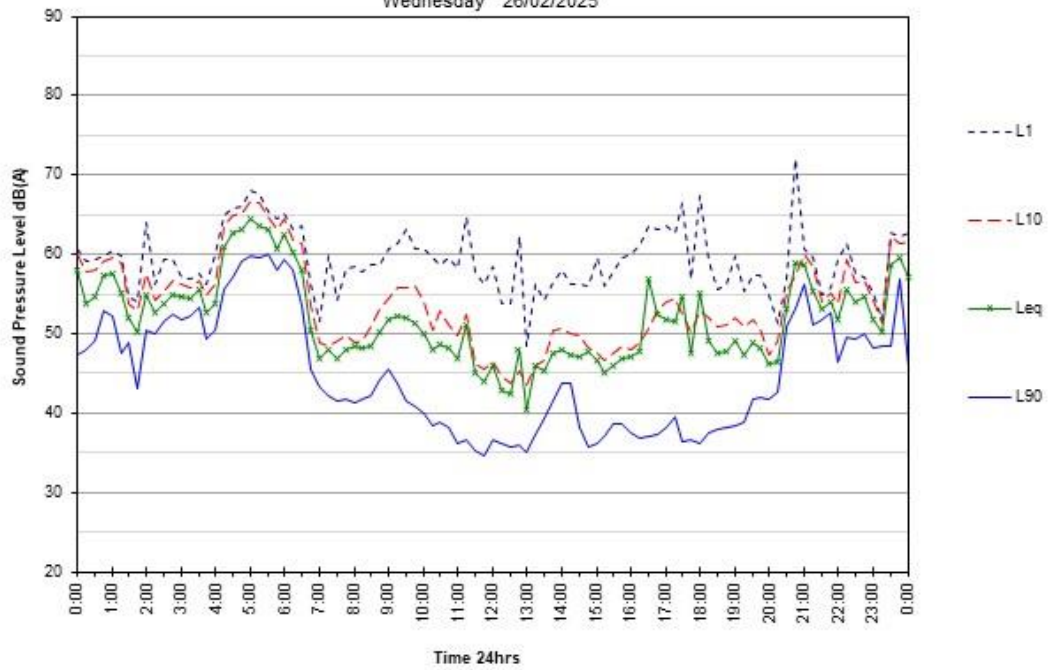
Tuesday 25/02/2025



30 Marskell Circuit Mudgee

Environmental Noise Monitoring

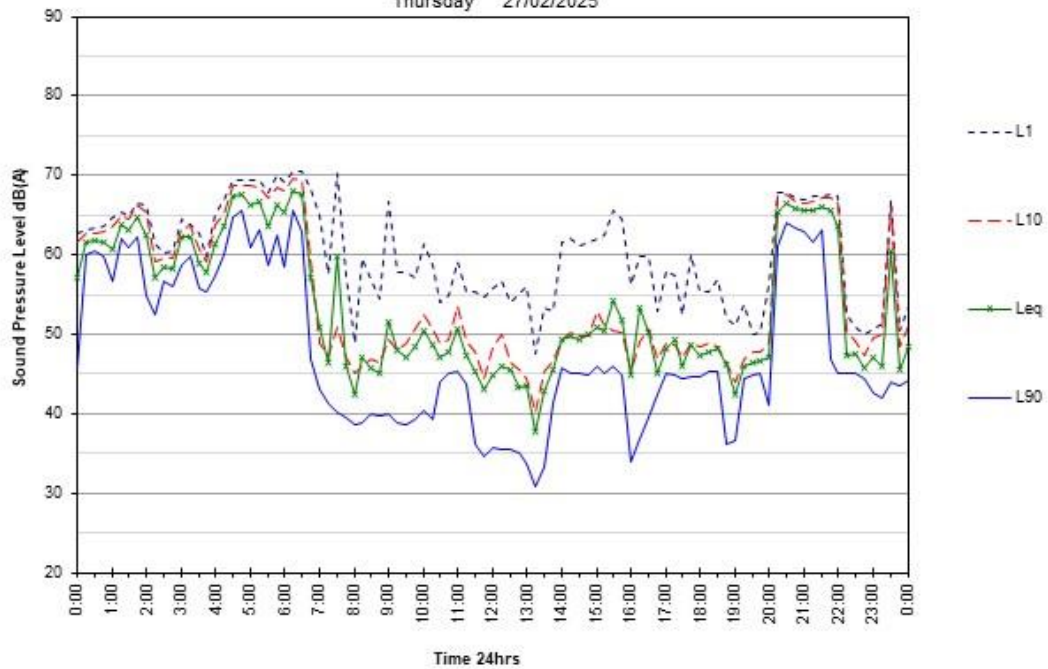
Wednesday 26/02/2025



30 Marskell Circuit Mudgee

Environmental Noise Monitoring

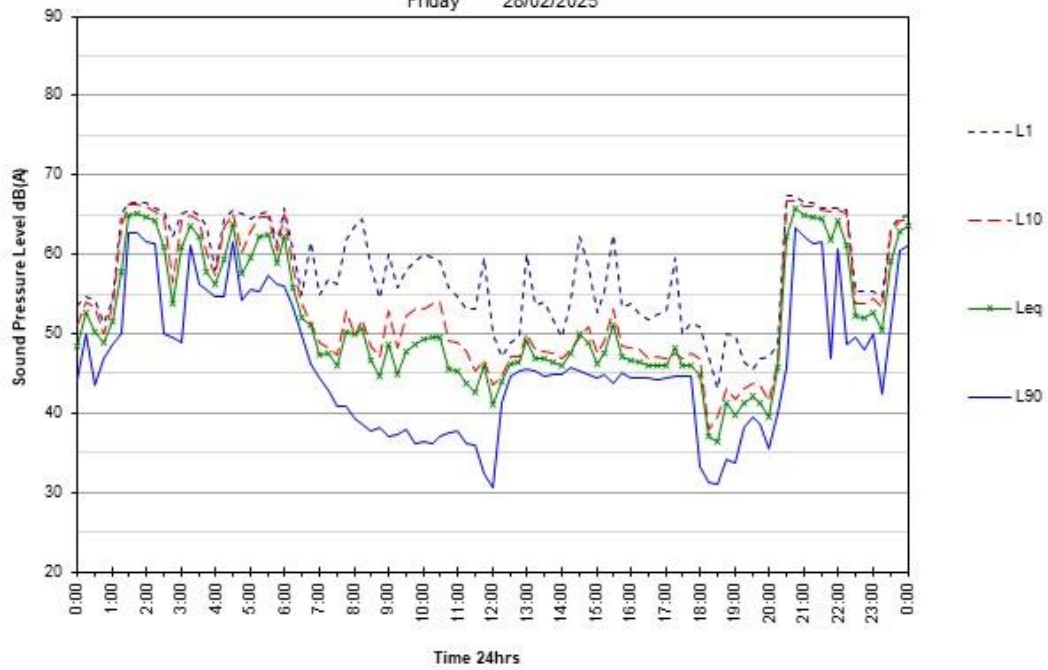
Thursday 27/02/2025



30 Marskell Circuit Mudgee

Environmental Noise Monitoring

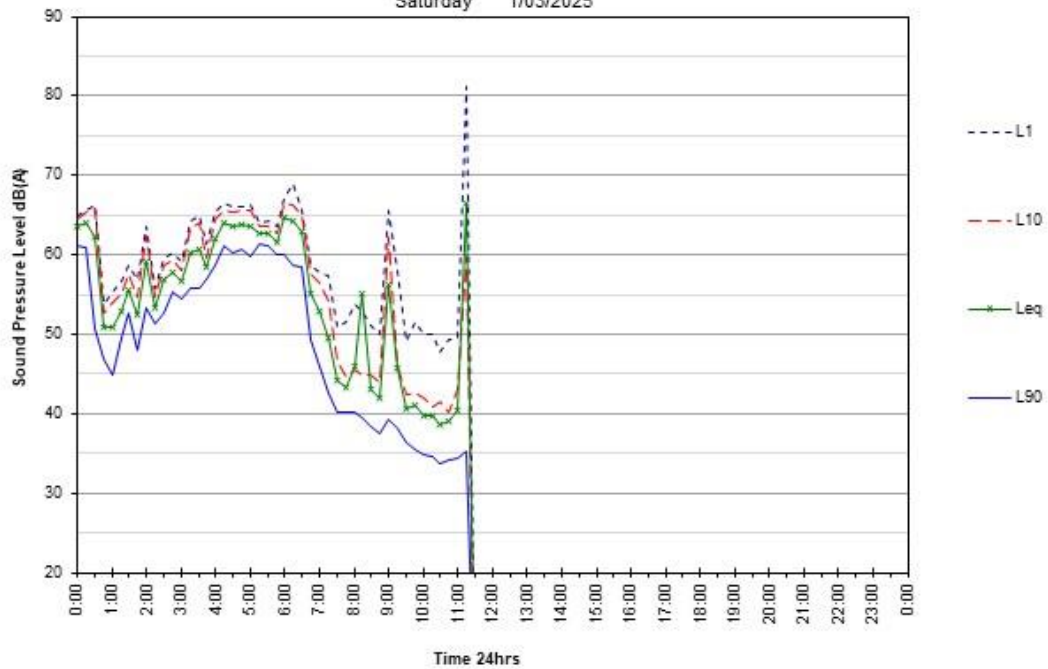
Friday 28/02/2025



30 Marskell Circuit Mudgee

Environmental Noise Monitoring

Saturday 1/03/2025



10.2 Development Plans

THESE NOTES MUST BE READ AND UNDERSTOOD BY ALL INVOLVED IN THE PROJECT.

Verify on site establishment - Contractor to engage underground services search to locate all existing services within the location of the proposed building.

Contractor to ensure site safety is upheld at all times in accordance with all relevant Australian standards.

Demolition of existing structures - Refer to specifications required under as shown on drawings, needs for new services. Demolition of demolished building material and asbestos material encountered during demolition, except those items specifically identified for reuse.

Performance of work to be undertaken in the manner and to the satisfaction of all relevant authorities & Australian Standards.

Termination, stop off or divert all existing services where no requirement or necessary to carry out new works.

Where any services are damaged during new works, contractor to rectify immediately to ensure full working order.

Refer to structural & civil engineer's documents for details of concrete slab steps and footings, including ground remediation measures.

Comply with land clearing requirements as required by the council conditions and/or as detailed by landscape architect.

Refer to hydraulic & civil engineer's details for location and details of all storm water pits. Locate all storm water pits into nearest existing storm water system or connect and/or to hydraulic & civil engineer's details. Locate pits to be at least 10m from any building and 10m from any other building. Lay piping with sufficient slope to pits & flow to pits to avoid ponding.

Refer to hydraulic engineer's details for details of sewer connections. All works & connections comply with relevant authorities' requirements.

Supply & install all electrical services including but not limited to, power, wet areas, lighting, emergency lighting & telephone supply to relevant Australian Standards, authorities' requirements & electrical engineer's details.

Supply & install all mechanical ventilation including but not limited to, mechanical exhaust fans & ducts, air conditioning units & ducts to relevant Australian standards, authorities' requirements & mechanical engineer's details.

Remove all redundant vehicle coverings, & replaced with new concrete kerbs & gutter to match the requirements. Make good to surround when disturbed by new works to correct engineer's specification.

Use: Provide 50mm and down to floor slabs to all wet areas.

Repaired to be to a standard of new to all surfaces, damaged or affected during new construction works.

At completion clean up the entire site & down all building work prior to handover.

Builder to ensure site remains tidy during construction to reduce noise levels.

All works (including materials & workmanship) to comply with current NCC / BCA & all relevant Australian standards.

All wall doors & doors in the path of travel to wet areas to be capable of being opened at all times from the interior using a single lever system. If walling with a single lever system, doors and/or opening in doors in a single device without the use of a lever and located between 800mm and 1000mm above the floor level, all in accordance with the NCC / BCA & relevant Australian standards.

All glazing to comply with all relevant Australian standards.

All glazing to comply with all relevant Australian standards.

Exit signs and emergency lighting to comply with all relevant Australian standards.

The highest and/or one wall installation to comply with all relevant Australian standards.

Provide fire rated glass doors to comply with all relevant Australian standards. Provide 200mm (or) dry chemical fire extinguisher in each electrical substation.

Waterproofing to walls and floors in wet areas to be provided in accordance with all relevant Australian standards, NCC / BCA.

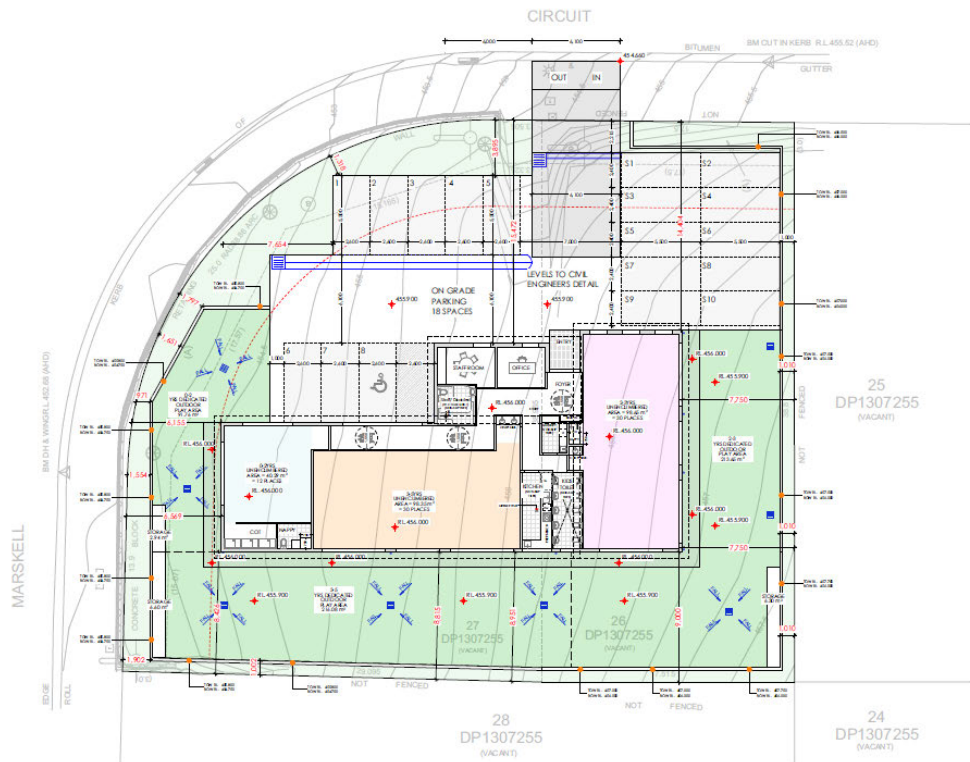
Provide waterproofing and backing rod to all present joints as required.

All internal steelwork to be shop primed. All external / exposed steel work to be hot dip galvanized prior to installation.

Provide 100mm (or) 125mm (or) 150mm (or) 200mm (or) 250mm (or) 300mm (or) 350mm (or) 400mm (or) 450mm (or) 500mm (or) 550mm (or) 600mm (or) 650mm (or) 700mm (or) 750mm (or) 800mm (or) 850mm (or) 900mm (or) 950mm (or) 1000mm (or) 1050mm (or) 1100mm (or) 1150mm (or) 1200mm (or) 1250mm (or) 1300mm (or) 1350mm (or) 1400mm (or) 1450mm (or) 1500mm (or) 1550mm (or) 1600mm (or) 1650mm (or) 1700mm (or) 1750mm (or) 1800mm (or) 1850mm (or) 1900mm (or) 1950mm (or) 2000mm (or) 2050mm (or) 2100mm (or) 2150mm (or) 2200mm (or) 2250mm (or) 2300mm (or) 2350mm (or) 2400mm (or) 2450mm (or) 2500mm (or) 2550mm (or) 2600mm (or) 2650mm (or) 2700mm (or) 2750mm (or) 2800mm (or) 2850mm (or) 2900mm (or) 2950mm (or) 3000mm (or) 3050mm (or) 3100mm (or) 3150mm (or) 3200mm (or) 3250mm (or) 3300mm (or) 3350mm (or) 3400mm (or) 3450mm (or) 3500mm (or) 3550mm (or) 3600mm (or) 3650mm (or) 3700mm (or) 3750mm (or) 3800mm (or) 3850mm (or) 3900mm (or) 3950mm (or) 4000mm (or) 4050mm (or) 4100mm (or) 4150mm (or) 4200mm (or) 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SITE LEGEND

- SITE BOUNDARY
 - STORMWATER PIPE (SEE CIVIL ENGINEER'S DETAIL)
 - LANDSCAPED AREA
 - SITE COVERAGE
 - CONCRETE PAVEMENT (SEE CIVIL ENGINEER'S DETAIL)
 - PLANTING TO LANDSCAPE ARCHITECT'S DETAILS
 - PRINCIPAL PRIVATE OFF
- NOTE: REFER TO STORMWATER ENGINEER'S DETAIL FOR SEWAGE AND EROSION CONTROL



SITE PLAN
1:150

RSDNC.
RESIDENT DESIGN STUDIO

THE CLIENTS & CONSULTANTS OF RESIDENT DESIGN STUDIO
RESIDENT DESIGN STUDIO
30 Marskell Circuit, Mudgee NSW 2850
02 6881 1111
www.rsdnc.com.au

Drawn by: [Signature]
NOTE: REV: DATE

SCALE: 1:150
STATUS: [Symbol]

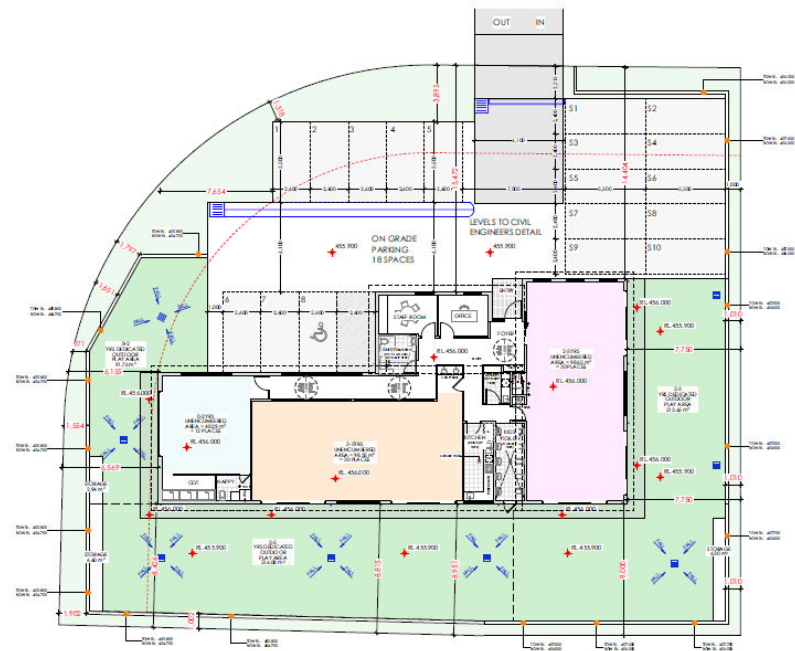
SITE PLAN
D:\A\30 Marskell Circuit, Mudgee NSW 2850
DRAWING NAME: PROJECT

COMPLIANCE TABLE			
ITEM	PROPOSED	STANDARD	COMPLIANCE
SITE AREA			
3071.8m ²			
SETBACK			
FRONT	1.1m	1.1m	YES
REAR	3.5m	3.5m	YES
SIDE SECONDARY	3m	3m	YES
REAR	1.1m	1.1m	YES
TOTAL FLOOR AREA			
430m ²		430m ² MAX	YES
HEIGHT			
8m		8m	YES
STORAGE			
INTERNAL	15m ²	15m ²	YES
EXTERNAL	15m ²	15m ²	YES
CHILD CARE			
NUMBER OF CHILDREN			
0-2 YEARS	17 (SEE 1)	-	YES
3-5 YEARS	30 (SEE 1)	-	YES
0-5 YEARS	47 (SEE 1)	-	YES
TOTAL NO.	75 (SEE 1)	-	YES
NUMBER OF TEACHERS			
0-2 YEARS	3 (SEE 1)	1.4 (SEE 1)	YES
3-5 YEARS	6 (SEE 1)	1.3 (SEE 1)	YES
0-5 YEARS	9 (SEE 1)	1.3 (SEE 1)	YES
TOTAL NO.	12 (SEE 1)	-	YES
INDOOR PLAY AREA			
0-2 YEARS	45m ²	3.2m ² / E.D.	YES
3-5 YEARS	78m ²	3.2m ² / E.D.	YES
0-5 YEARS	123m ²	3.2m ² / E.D.	YES
TOTAL AREA	226m ²	-	YES
OUTDOOR PLAY AREA			
TOTAL AREA	522m ²	7m ² / E.D. OR 30m ²	YES
CARPARKING			
STANDARD	13 SPACES	-	-
ACCESSIBLE	1 SPACE	-	YES
TOTAL CAR SPACES	14 SPACES	-	YES
WASTE MANAGEMENT			
TOTAL NO.	-	-	YES

AREA CALCULATIONS

- 0-2 YEARS INTERNAL UNENCUMBERED PLAY AREA
- 2-3 YEARS INTERNAL UNENCUMBERED PLAY AREA
- 3-5 YEARS INTERNAL UNENCUMBERED PLAY AREA
- EXTERNAL UNENCUMBERED PLAY AREA
- EXTERNAL DEEP SOIL/LANDSCAPE AREA

7
-



GROUND FLOOR PLAN
1:150

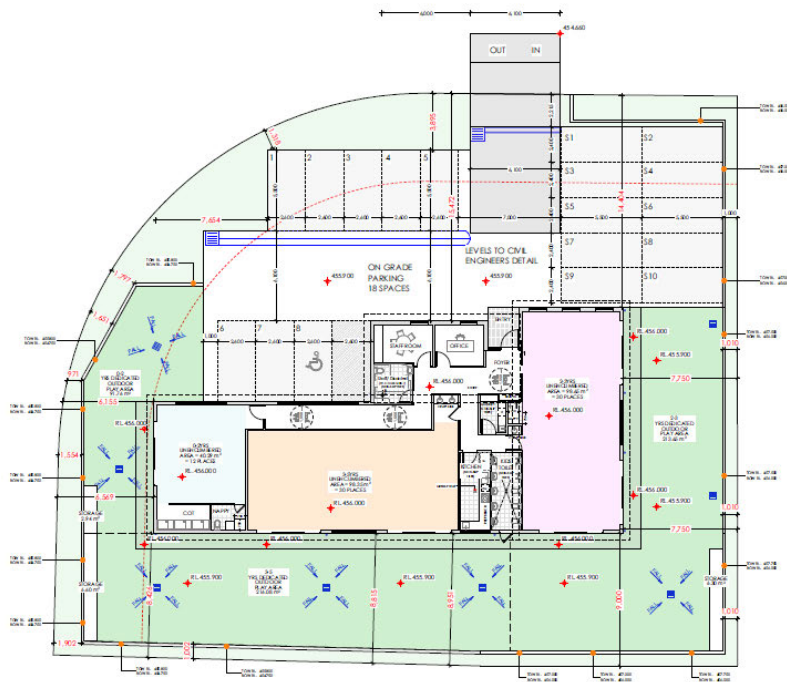
RSDNC.
RESIDENT DESIGN STUDIO

THE CLIENTS & CONSULTANTS OF RESIDENT DESIGN STUDIO
RESIDENT DESIGN STUDIO
30 Marskell Circuit, Mudgee NSW 2850
02 6881 1111
www.rsdnc.com.au

Drawn by: [Signature]
NOTE: REV: DATE

SCALE: 1:150
STATUS: [Symbol]

CALCULATIONS PLANS
D:\A\30 Marskell Circuit, Mudgee NSW 2850
DRAWING NAME: PROJECT



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GROUND FLOOR PLAN
1:150

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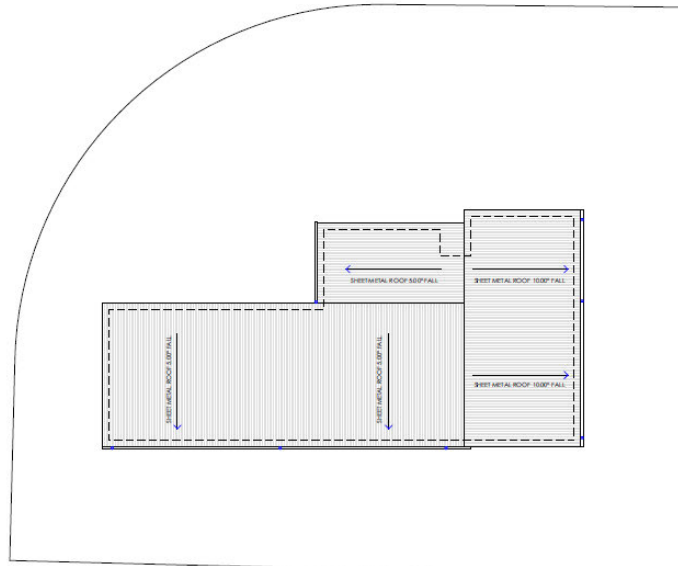
Scale 1:150
NOTE: REV DATE



1:150
SCALE
STATUS

GROUND FLOOR PLAN
D404
DRAWING NAME

Proposed Early Learning Centre
30 Marskeil Circuit, Mudgee NSW 2855
PROJECT



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ROOF PLAN
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NOTE: REV DATE



1:150
SCALE
STATUS

ROOF PLAN
D404
DRAWING NAME

Proposed Early Learning Centre
30 Marskeil Circuit, Mudgee NSW 2855
PROJECT