

**PROPOSED CHILD CARE CENTRE  
39 KING DAVID BOULEVARD / 67 KINGSWAY  
MADELEY**

**ENVIRONMENTAL ACOUSTIC ASSESSMENT**

JULY 2022

OUR REFERENCE: 29836-1-22226

DOCUMENT CONTROL PAGE

**ENVIRONMENTAL ACOUSTIC ASSESSMENT**  
**PROPOSED CHILD CARE CENTRE**  
**MADELEY**

Job No: 22226

Document Reference: 29836-1-22226

FOR

**DYNAMIC PLANNING AND DEVELOPMENTS PTY LTD**

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## 1. INTRODUCTION

Herring Storer Acoustics were commissioned to undertake an acoustic assessment of noise emissions associated with the proposed day care centre to be located at 39 King David Boulevard / 67 Kingsway, Madeley.

The report considers noise received at the neighbouring premises from the proposed development for compliance with the requirements of the *Environmental Protection (Noise) Regulations 1997*. This report considers noise emissions from:

- Children playing within the outside play areas of the centre; and
- Mechanical services.

We note that from information received from DWER, the bitumised area would be considered as a road, thus noise relating to motor vehicles is exempt from the *Environmental Protection (Noise) Regulations 1997*. We note that these noise sources are rarely critical in the determination of compliance. However, as requested by council and for completeness, they have been included in the assessment, for information purposes only.

For information, a plan of the proposed development is attached in Appendix A.

## 2. SUMMARY

Noise received at the neighbouring residences from the outdoor play area would comply with day period assigned noise level, with fencing as shown on Figure 5.1 in Section 5 – Modelling.

The air conditioning condensing units have also been assessed to comply with the requirements of the *Environmental Protection (Noise) Regulations 1997* at all times, provided the condensing units are located on the western facade, adjacent to the bike racks; and they are either installed with Level 2 night period 'Low Noise' modes or screened from the neighbours to the west.

It is noted that noise associated with cars movements and cars starting are exempt from complying with the Regulations. However, noise emissions from car doors are not strictly exempt from the Regulations. Noise received at the neighbouring residences from these noise sources would comply at all times, with the fencing, as shown on Figure 5.1 in Section 5 and parking to bay 1 is restricted to the day period only.

Thus, noise emissions from the proposed development, would be deemed to comply with the requirements of the *Environmental Protection (Noise) Regulations 1997* for the proposed hours of operation, with the inclusion of the following:

- 1 Although the proposed facility would open before 7 am (ie during the night period), the outdoor play area would not be used until after 7am. Thus, noise received at the neighbouring existing residences from the outdoor play area needs to comply with the assigned day period noise level.
- 2 Fencing to be as shown on Figure 5.1 in Section 5 - Modelling. Other fencing to be as indicated in the attached drawings. We note that for this development, colourbond is an acceptable fencing material.

- 3 As the air conditioning has not been design at this stage, it is recommended that the design be reviewed / assessed to ensure compliance with the Environmental Protection (Noise) Regulations 1997 are achieved.
- 4 The air conditioning condensing units to be located on the western facade, adjacent to the bike racks; and they are either installed with Level 2 night period 'low noise' modes or screened from the neighbours to the west installed with "Low Noise" night period modes.

### 3. CRITERIA

The allowable noise level at the surrounding locales is prescribed by the *Environmental Protection (Noise) Regulations 1997*. Regulations 7 & 8 stipulate maximum allowable external noise levels. For highly sensitive area of a noise sensitive premises this is determined by the calculation of an influencing factor, which is then added to the base levels shown below in Table 3.1. The influencing factor is calculated for the usage of land within two circles, having radii of 100m and 450m from the premises of concern. For other areas within a noise sensitive premises, the assigned noise levels are fixed throughout the day, as listed in Table 3.1.

**TABLE 3.1 - BASELINE ASSIGNED OUTDOOR NOISE LEVEL**

Premises Receiving Noise	Time of Day	Assigned Level (dB)		
		L <sub>A10</sub>	L <sub>A1</sub>	L <sub>Amax</sub>
Noise sensitive premises: highly sensitive area	0700 - 1900 hours Monday to Saturday (Day)	45 + IF	55 + IF	65 + IF
	0900 - 1900 hours Sunday and Public Holidays (Sunday / Public Holiday Day)	40 + IF	50 + IF	65 + IF
	1900 - 2200 hours all days (Evening)	40 + IF	50 + IF	55 + IF
	2200 hours on any day to 0700 hours Monday to Saturday and 0900 hours Sunday and Public Holidays (Night)	35 + IF	45 + IF	55 + IF
Commercial Premises	All hours	60	75	80

Note:  
L<sub>A10</sub> is the noise level exceeded for 10% of the time.  
L<sub>A1</sub> is the noise level exceeded for 1% of the time.  
L<sub>Amax</sub> is the maximum noise level.  
IF is the influencing factor.

It is a requirement that received noise be free of annoying characteristics (tonality, modulation and impulsiveness), defined below as per Regulation 9.

**"impulsiveness"** means a variation in the emission of a noise where the difference between L<sub>Apeak</sub> and L<sub>Amax(Slow)</sub> is more than 15 dB when determined for a single representative event;

**"modulation"** means a variation in the emission of noise that –

- (a) is more than 3 dB L<sub>Afast</sub> or is more than 3 dB L<sub>Afast</sub> in any one-third octave band;
- (b) is present for more at least 10% of the representative assessment period; and
- (c) is regular, cyclic and audible;

**“tonality”**

means the presence in the noise emission of tonal characteristics where the difference between –

- (a) the A-weighted sound pressure level in any one-third octave band; and
- (b) the arithmetic average of the A-weighted sound pressure levels in the 2 adjacent one-third octave bands,

is greater than 3 dB when the sound pressure levels are determined as  $L_{Aeq,T}$  levels where the time period T is greater than 10% of the representative assessment period, or greater than 8 dB at any time when the sound pressure levels are determined as  $L_{ASlow}$  levels.

Where the noise emission is not music, if the above characteristics exist and cannot be practicably removed, then any measured level is adjusted according to Table 3.2 below.

**TABLE 3.2 - ADJUSTMENTS TO MEASURED LEVELS**

Where <b>tonality</b> is present	Where <b>modulation</b> is present	Where <b>impulsiveness</b> is present
+5 dB(A)	+5 dB(A)	+10 dB(A)

Note: These adjustments are cumulative to a maximum of 15 dB.

For this development, the closest existing neighbouring residences are located to the west and south, with future residence located to the north, west and south. It is noted that the premises to the east are commercial premises. An aerial showing the neighbouring premises are shown below on Figure 3.1.



**FIGURE 3.1 – NEIGHBOURING LOTS**

At the neighbouring residences within 100 metres of Kingsway Reserve (ie Residences to West, south west and east), with Kingsway being a secondary road and the Cricket club (with clubroom) being within the inner circle, the Influencing Factor for these neighbouring residences has been determined to be +4 dB. For the other residences (ie residences to the north and north west), the Influencing Factor would be +2 dB as they are still within 100 metres of Kingsway. Thus, the assigned noise levels would be as listed in Tables 3.3 and 3.4.

**TABLE 3.3 - ASSIGNED OUTDOOR NOISE LEVEL  
RESIDENCES EAST, SOUTH WEST AND WEST**

Premises Receiving Noise	Time of Day	Assigned Level (dB)		
		L <sub>A10</sub>	L <sub>A1</sub>	L <sub>Amax</sub>
Noise sensitive premises: highly sensitive area	0700 - 1900 hours Monday to Saturday (Day)	49	59	69
	0900 - 1900 hours Sunday and Public Holidays (Sunday / Public Holiday Day)	44	54	69
	1900 - 2200 hours all days (Evening)	44	54	59
	2200 hours on any day to 0700 hours Monday to Saturday and 0900 hours Sunday and Public Holidays (Night)	39	49	59

Note: L<sub>A10</sub> is the noise level exceeded for 10% of the time.  
L<sub>A1</sub> is the noise level exceeded for 1% of the time.  
L<sub>Amax</sub> is the maximum noise level.

**TABLE 3.4 - ASSIGNED OUTDOOR NOISE LEVEL  
RESIDENCES TO NORTH**

Premises Receiving Noise	Time of Day	Assigned Level (dB)		
		L <sub>A10</sub>	L <sub>A1</sub>	L <sub>Amax</sub>
Noise sensitive premises: highly sensitive area	0700 - 1900 hours Monday to Saturday (Day)	47	57	67
	0900 - 1900 hours Sunday and Public Holidays (Sunday / Public Holiday Day)	42	52	67
	1900 - 2200 hours all days (Evening)	42	52	57
	2200 hours on any day to 0700 hours Monday to Saturday and 0900 hours Sunday and Public Holidays (Night)	37	47	57

Note: L<sub>A10</sub> is the noise level exceeded for 10% of the time.  
L<sub>A1</sub> is the noise level exceeded for 1% of the time.  
L<sub>Amax</sub> is the maximum noise level.

#### 4. PROPOSAL

From information supplied, we understand that the child care centre normal hours of operations would be between 0630 and 1830 hours, Monday to Friday (closed on public holidays). It is understood that the proposed childcare centre will cater for a maximum of 92 children: with the following breakdown:

Nursery	0 - 2 years	12 places
Toddlers	2 - 3 years	20 places
Kindy	3 - 4 years	30 places
Kindy	4 - 5 years	30 places

It is noted that although the proposed child care centre would open before 7 am (ie during the night period), the outdoor play area would not be used until after 7am.

## 5. MODELLING

To assess the noise received at the neighbouring premises from the proposed development, noise modelling was undertaken using the noise modelling program SoundPlan.

Calculations were carried out using the DWER's weather conditions, which relate to worst case noise propagation, as stated in the Department of Environment Regulation *"Draft Guidance on Environmental Noise for Prescribed Premises"*. These conditions include winds blowing from sources to the receiver(s).

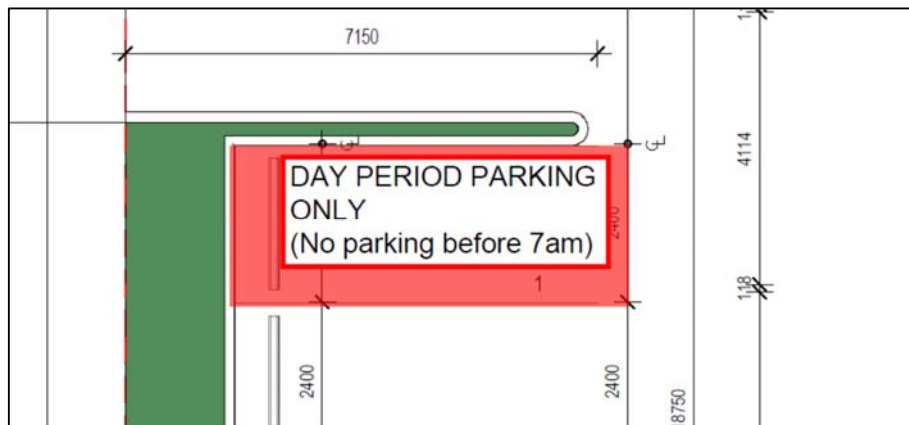
Calculations were based on the sound power levels used in the calculations are listed in Table 5.1.

**TABLE 5.1 – SOUND POWER LEVELS**

Item	Sound Power Level, dB(A)
Children Playing	83 (per 10 children)
Car Moving in Car Park	79
Car Starting	85
Door Closing	87
Air conditioning condensing Unit	4 @ 70 (Childcare)

### Notes:

- 1 Even though the noise emissions from children under the age of 2 years is relatively low compared to the other children, to be conservative, acoustic modelling of outdoor play noise was made, based on 90 children playing within the outdoor play areas at the one time, utilising 9 groups of 10 children, sound power levels distributed as plane sources.
- 2 The noise level for the air conditioning has been based on the sound power levels used for previous assessment of child care centres. From other studies, we understand that the noise associated with the condensing units would be conservative.
- 3 For this development, it is recommended that the air conditioning condensing units would be located along the western façade of the building, near the bike racks.
- 4 The noise modelling has been based on fencing, as shown on Figure 5.1.
- 5 For noise emissions from car doors to comply during the night period, as shown below, parking within car bay 1 is restricted to the day period only (ie no parking before 7am).





- 6 Noise modelling was undertaken to a number of different receiver locations for each of the neighbouring residences. However, to simplify the assessment, only the noise level in the worst case location (ie highest noise level), have been listed.



FIGURE 5.1 – BOUNDARY FENCING

## 6. ASSESSMENT

The resultant noise levels at the neighbouring residence from children playing outdoors and the mechanical services are tabulated in Table 6.1.

From previous measurements, noise emissions from children playing does not contain any annoying characteristics. Noise emissions from the mechanical services could be tonal and a +5 dB(A) penalty would be applicable, as shown in Table 6.1. Noise emissions from both outdoor play and the mechanical services needs to comply with the assigned  $L_{A10}$  noise levels.

**TABLE 6.1 - ACOUSTIC MODELLING RESULTS FOR  $L_{A10}$  CRITERIA  
OUTDOOR PLAY AREAS AND MECHANICAL PLANT**

Neighbouring Premises	Calculated Noise Level (dB(A))		
	Children Playing	Air Conditioning	
		Day Period	Night Period
North	42	34 (39)	28 (33)
East	49	20 (25)	14 (19)
South West	44	28 (33)	22 (27)
West	48	38 (43)	32 (37)
North West	42	33 (38)	27 (32)

( ) Includes +5 dB(A) penalty for tonality

With regards to noise associated with cars within the parking area, resultant noise levels are tabulated in Tables 6.2 and 6.3. It is noted that noise emissions from a moving car being an  $L_{A1}$  noise level, with noise emissions from cars starting and doors closing being an  $L_{Amax}$  noise level.

Based on the definitions of tonality, noise emissions from car movements and car starts, being an  $L_{A1}$  and  $L_{Amax}$  respectively, being present for less than 10% of the time, would not be considered tonal. Thus, no penalties would be applicable, and the assessment would be as listed in Table 6.2 (Car Moving) and Table 6.3 (Car Starting). However, noise emissions from car doors closing could be impulsive, hence the +10dB penalty has been included in the assessment.

**TABLE 6.2 - ACOUSTIC MODELLING RESULTS  $L_{A1}$  CRITERIA  
CAR MOVING**

Neighbouring Premises	Calculated Noise Level (dB(A))
North	44
East	45
South West	31
West	43
North West	39

**TABLE 6.3 - ACOUSTIC MODELLING RESULTS  $L_{Amax}$  CRITERIA  
CAR STARTING / DOOR CLOSING**

Neighbouring Premises	Calculated Noise Level (dB(A))			
	Car Starting		Door Closing	
	Day Period	Night Period	Day Period	Night Period
North	48	44	50 [60]	46 [56]
East	45	45	47 [57]	47 [57]
South West	35	35	36 [46]	36 [46]
West	47	47	48 [58]	48 [58]
North West	43	43	44 [54]	44 [54]

[ ] Includes +10 dB(A) penalty for impulsiveness.

Tables 6.4 to 6.11 summarise the applicable Assigned Noise Levels, and assessable noise level emissions for each identified noise.

**TABLE 6.4 – ASSESSMENT OF  $L_{A10}$  NOISE LEVEL EMISSIONS  
OUTDOOR PLAY (DAY PERIOD)**

Location	Assessable Noise Level dB(A)	Applicable Assigned Noise Level (dB(A))	Exceedance to Assigned Noise Level
North	42	47	Complies
East	49	49	Complies
South West	44	49	Complies
West	48	49	Complies
North West	42	47	Complies

**TABLE 6.5 – ASSESSMENT OF  $L_{A10}$  DAY PERIOD NOISE LEVEL EMISSIONS  
AIR CONDITIONING**

Location	Assessable Noise Level dB(A)	Applicable Assigned Noise Level (dB(A))	Exceedance to Assigned Noise Level
North	39	47	Complies
East	25	49	Complies
South West	33	49	Complies
West	43	49	Complies
North West	38	47	Complies

**TABLE 6.6 – ASSESSMENT OF  $L_{A10}$  NIGHT PERIOD NOISE LEVEL EMISSIONS**

**AIR CONDITIONING**

Location	Assessable Noise Level dB(A)	Applicable Assigned Noise Level (dB(A))	Exceedance to Assigned Noise Level
North	33	37	Complies
East	19	39	Complies
South West	27	39	Complies
West	37	39	Complies
North West	32	37	Complies

**TABLE 6.7 – ASSESSMENT OF  $L_{A1}$  NIGHT PERIOD NOISE LEVEL EMISSIONS**

**CAR MOVEMENTS**

Location	Assessable Noise Level dB(A)	Applicable Assigned Noise Level (dB(A))	Exceedance to Assigned Noise Level
North	44	47	Complies
East	45	49	Complies
South West	31	49	Complies
West	43	49	Complies
North West	39	47	Complies

**TABLE 6.8 – ASSESSMENT OF  $L_{Amax}$  DAY PERIOD NOISE LEVEL EMISSIONS**

**CAR STARTING**

Location	Assessable Noise Level dB(A)	Applicable Assigned Noise Level (dB(A))	Exceedance to Assigned Noise Level
North	48	67	Complies
East	45	69	Complies
South West	35	69	Complies
West	47	69	Complies
North West	43	67	Complies

**TABLE 6.9 – ASSESSMENT OF  $L_{Amax}$  NIGHT PERIOD NOISE LEVEL EMISSIONS**

**CAR STARTING**

Location	Assessable Noise Level dB(A)	Applicable Assigned Noise Level (dB(A))	Exceedance to Assigned Noise Level
North	46	57	Complies
East	45	59	Complies
South West	35	59	Complies
West	47	59	Complies
North West	43	57	Complies

**TABLE 6.10 – ASSESSMENT OF  $L_{Amax}$  DAY PERIOD NOISE LEVEL EMISSIONS**

**CAR DOOR**

Location	Assessable Noise Level dB(A)	Applicable Assigned Noise Level (dB(A))	Exceedance to Assigned Noise Level
North	60	67	Complies
East	57	69	Complies
South West	46	69	Complies
West	58	69	Complies
North West	54	67	Complies

**TABLE 6.11 – ASSESSMENT OF  $L_{Amax}$  NIGHT PERIOD NOISE LEVEL EMISSIONS  
CAR DOOR**

Location	Assessable Noise Level dB(A)	Applicable Assigned Noise Level (dB(A))	Exceedance to Assigned Noise Level
North	56	57	Complies
East	57	59	Complies
South West	46	59	Complies
West	58	59	Complies
North West	54	57	Complies

## 7. CONCLUSION

Noise received at the neighbouring residences from the outdoor play area would comply with day period assigned noise level, with fencing as shown on Figure 5.1 in Section 5 – Modelling.

The air conditioning condensing units have also been assessed to comply with the requirements of the *Environmental Protection (Noise) Regulations 1997* at all times, provided the condensing units are located on the western facade, adjacent to the bike racks; and they are either installed with Level 2 night period ‘Low Noise’ modes or screened from the neighbours to the west.

It is noted that noise associated with cars movements and cars starting are exempt from complying with the Regulations. However, noise emissions from car doors are not strictly exempt from the Regulations. Noise received at the neighbouring residences from these noise sources would comply at all times, with the fencing, as shown on Figure 5.1 in Section 5 and parking to bay 1 is restricted to the day period only.

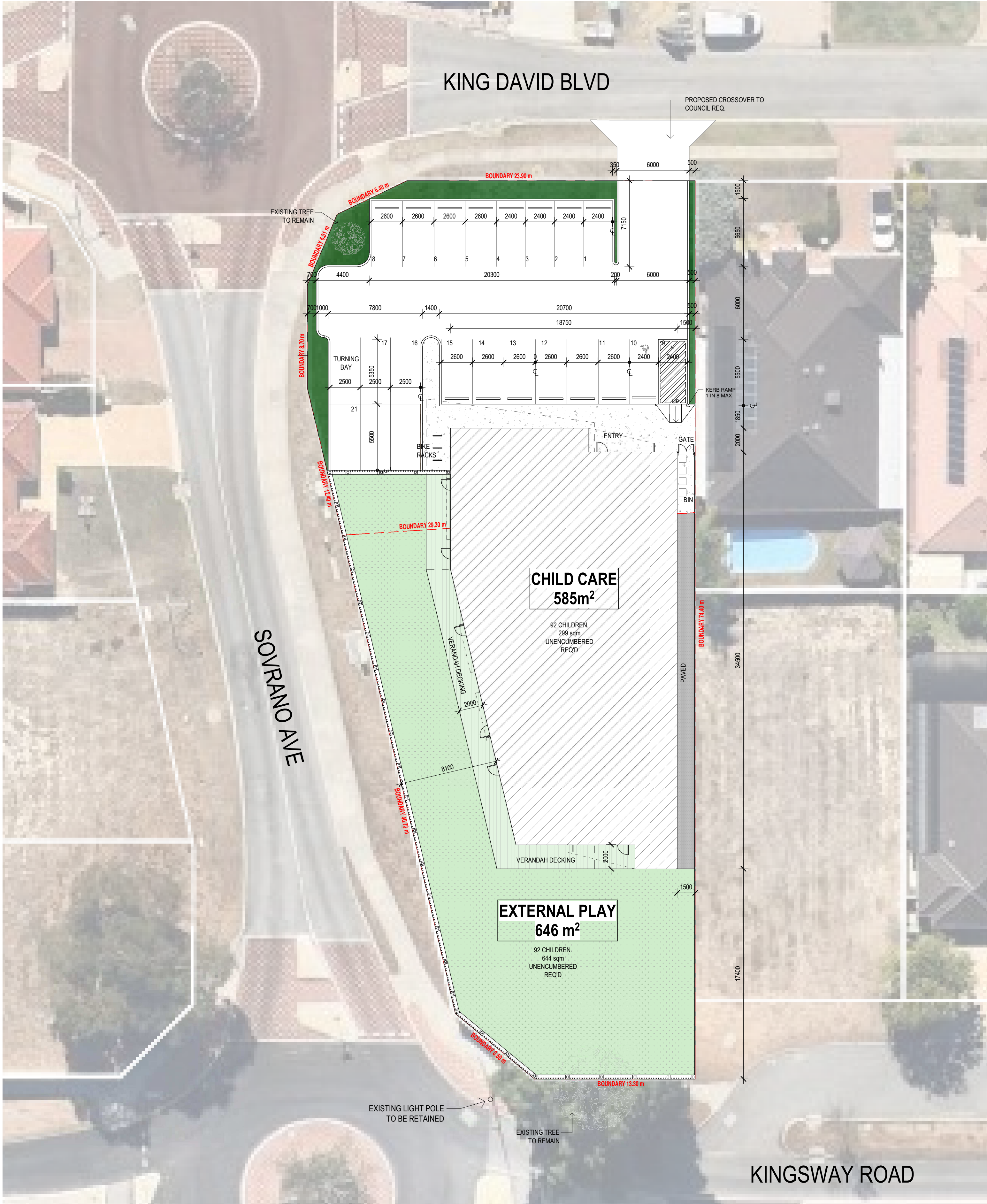
Thus, noise emissions from the proposed development, would be deemed to comply with the requirements of the *Environmental Protection (Noise) Regulations 1997* for the proposed hours of operation, with the inclusion of the following:

- 1 Although the proposed facility would open before 7 am (ie during the night period), the outdoor play area would not be used until after 7am. Thus, noise received at the neighbouring existing residences from the outdoor play area needs to comply with the assigned day period noise level.
- 2 Fencing to be as shown on Figure 5.1 in Section 5 - Modelling. Other fencing to be as indicated in the attached drawings. We note that for this development, colourbond is an acceptable fencing material.
- 3 As the air conditioning has not been design at this stage, it is recommended that the design be reviewed / assessed to ensure compliance with the Environmental Protection (Noise) Regulations 1997 are achieved.
- 4 The air conditioning condensing units to be located on the western facade, adjacent to the bike racks; and they are either installed with Level 2 night period ‘low noise’ modes or screened from the neighbours to the west installed with “Low Noise” night period modes.

## **APPENDIX A**

### PLANS





1 PROPOSED SITE PLAN  
1:200

NOTE:  
THIS FEASIBILITY STUDY IS SUBJECT TO THE FOLLOWING:  
- FEATURE SITE SURVEY (TO BE CONFIRMED)  
- PLANNING ADVICE (TO BE CONFIRMED)  
- TRAFFIC ADVICE (TO BE CONFIRMED)  
- SITE SERVICES, EASEMENTS, ETC TO BE CONFIRMED  
- SETBACKS TO BOUNDARY TO BE CONFIRMED BY PLANNER

OCCUPATION SCHEDULE - 92 CHILDREN

AGE GROUP	NO. OF CHILDREN	NO. OF STAFF	RATIO
NURSERY - BIRTH TO 2 YRS	12 CHILDREN	3 STAFF	1:4
TODDLERS - 2-3 YRS	20 CHILDREN	4 STAFF	1:5
KINDY - 3-4 YRS	30 CHILDREN	3 STAFF	1:10
KINDY - 4-5 YRS	30 CHILDREN	3 STAFF	1:10
TOTAL	92 CHILDREN	13 STAFF	

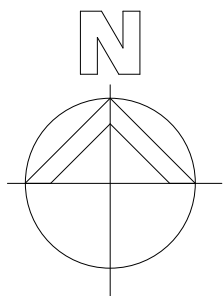
CAR BAYS - 9 BAYS UP TO 54 PLACES + 1 PER 8 OVER = 14 CAR BAYS REQ'D  
CAR BAYS - 1 PER 1 STAFF = 13 CAR BAYS REQ'D  
TOTAL CAR BAYS = 27 BAYS (21 BAYS PROVIDED, 6 BAY SHORTFALL)

CHILDREN NUMBERS AND AREAS TO BE VERIFIED IN DESIGN LAYOUT  
COUNCIL DISCUSSIONS REQUIRED TO REVIEW PLANNING REQUIREMENTS

PRELIMINARY ONLY PLAN  
SUBJECT TO PLANNING, TRAFFIC, ACOUSTIC, SURVEY AND SPECIALIST ASSESSMENT.  
LEVELS AND FUNCTIONALITY WITH SITE TOPOGRAPHY SUBJECT TO SURVEY  
CROSSOVERS TO BE ASSESSED  
LOCAL AUTHORITY: CITY OF WANNEROO

SITE PLAN LEGEND

	CONCRETE PAVING. REFER CIVIL ENGINEER'S DRAWINGS FOR CUTS / THICKNESS
	EXTERNAL PLAY
	LANDSCAPING
	DECKING/ VERANDAH AREA



B	PERLIM DESIGN	LD	DM	26.07.2022
A	INTERIM ISSUE	LD	DM	21.07.2022
.	INTERIM ISSUE	JS	DM	20.07.2022
revision/ issue	description	drawn by	check by	date
project	drawn JS	description	PROPOSED OVERALL SITE PLAN	
location	checked DM			
39 KING DAVID BVD / 67 KINGSWAY RD		scale	date 26.07.2022	
<b>Hodge Collard Preston</b> ARCHITECTS Third Floor, 38 Richardson Street, West Perth, WA 6005 PO Box 743, West Perth, WA 6872 Ph: (08) 9322 5144 Fax: (08) 9322 5140 Email: admin@hpcparch.com		As indicated	project no 62.22	dwg no SK17-00
			rev B	





EXTERNAL PLAY  
92 PLACES  
644 m² REQ.  
646m² PROV.

Childcare Room Schedule		
Name	Provided Area	Required area
AAT	4 m²	
AAT	4 m²	
AMENITIES	15 m²	
AMENITIES	13 m²	
CIRCULATION	47 m²	
COTTIS	15 m²	
FOYER	12 m²	
KINDY	102 m²	97.5 sqm
KINDY	101 m²	97.5 sqm
KITCHEN	14 m²	
L'DRY	8 m²	
NURSERY	43 m²	39 sqm
OFFICE	9 m²	
PREP/STORE	11 m²	
RECEPTION	8 m²	
STAFF ROOM	10 m²	
STORE	11 m²	
STORE	9 m²	
STORE	11 m²	
TODDLERS	72 m²	65 sqm
UAT	8 m²	

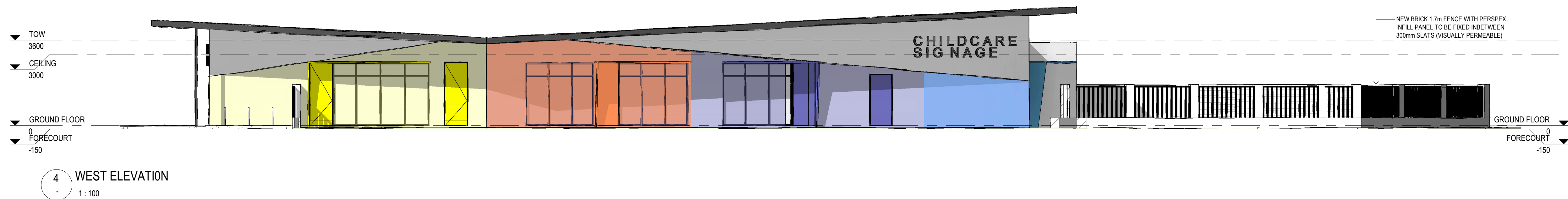
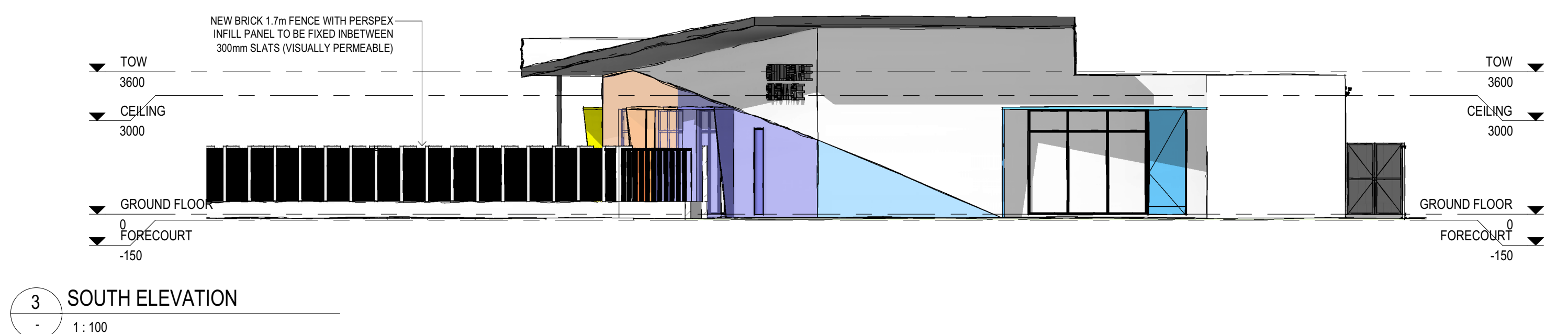
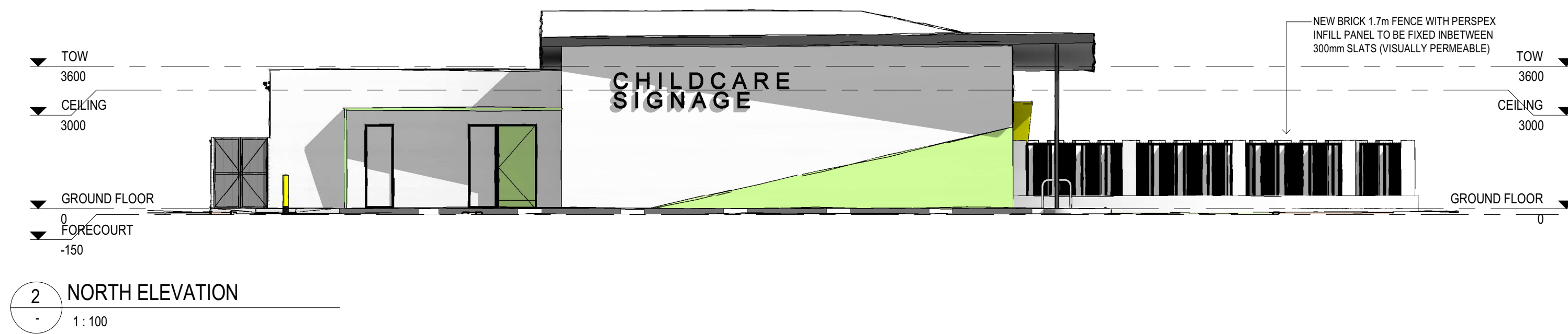
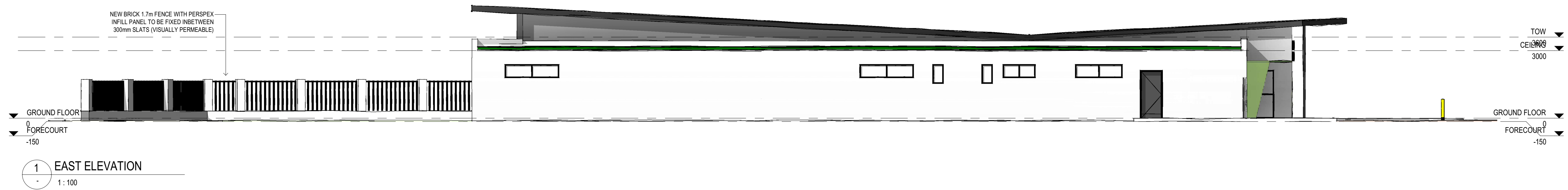
- LEGEND:
- CONCRETE PAVING
  - EXTERNAL PLAY
  - LANDSCAPING AREA AS PER CONSULTANTS DRAWINGS
  - DECKING/ VERANDAH AREA

1 GROUND FLOOR PLAN  
1 : 100

B	PERLIM DESIGN	LD	DM	26.07.2022
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revision/ issue	description	drawn by	check by	date
project		drawn	description	
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location		checked		
		NP		
		scale	date	
		1 : 100	26.07.2022	
		project no	dwg no	
		62.22	SK18-00	
			rev	
			B	

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**Hodge Collard Preston**  
ARCHITECTS



B	PERLIM DESIGN	LD	DM	26.07.2022
revision/ issue	description	drawn by	check by	date
project		drawn	Author	description
location		checked	Checker	ELEVATIONS
		scale	date	26.07.2022
		1:100	project no	dwg no
			62.22	SK19-00
				rev
				B

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