

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2021/1232

Date: 22 December 2021



Proposed Multi Deck Carpark
Lot 110 Market Lane
Maroochydore

ACOUSTIC REPORT



Client:
Walker Corporation

Reference:
2021571 R01B Lot 110 Market Lane, Maroochydore ENV.docx

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PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL Approval no: DEV2021/1232 Date: 22 December 2021  Queensland Government				

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1. Introduction

This report is in response to a request by Walker Corporation for a noise impact assessment of a proposed multi deck carpark located at Lot 110 Market Lane, Maroochydore. To facilitate the assessment, unattended noise monitoring was conducted at nearby residential receivers to determine the criteria for onsite activities. Based on the outcomes of the assessment, recommendations for acoustic treatments are specified.

2. Site Description

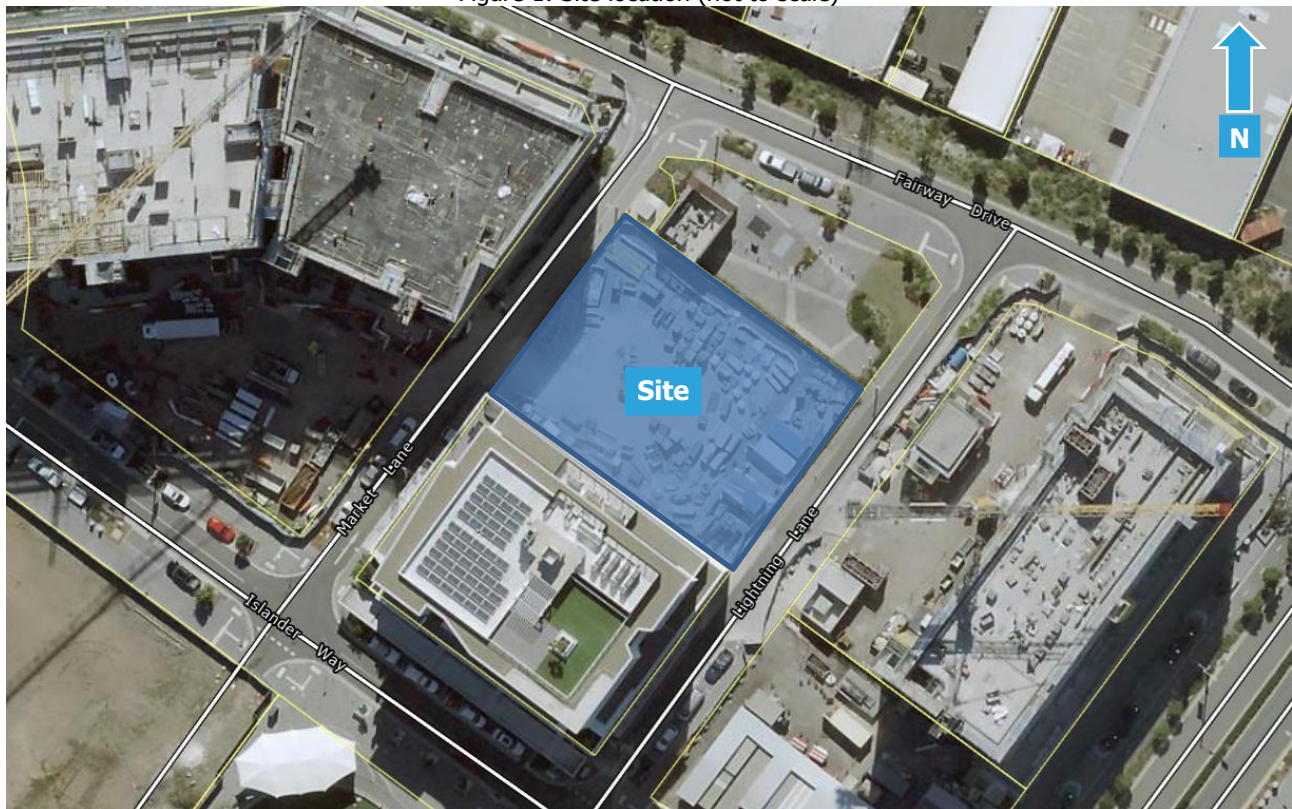
2.1 Site Location

The site is described by the following:

Lot 110 Market Lane, Maroochydore
Lot 110 on SP305312

Refer to Figure 1 for site location.

Figure 1: Site location (not to scale)



A site survey was conducted on 11 November 2021 and identified the following:

- a) The site is current vacant.
- b) A multi-storey commercial/retail building bounds the site to the south.
- c) Market lane bounds the site to the west and separates the development from multi storey residential apartments (currently under construction)
- d) Commercial land uses are located north of the site.
- e) A multi-storey hotel (currently under construction) is located to the east of the site.

2.2 Proposal

The proposal is to construct a multi deck carpark as detailed below:

- Site area of 1,364 m².
- The development comprises of eight (8) levels (excluding ground floor) of carparking with 308 parking spaces total.
- Commercial/retail tenancies will be located on the ground floor.
- Site access will be via Market Lane and Lightning Lane.

Refer to the Appendices for development plans.

2.3 Acoustic Environment

The surrounding area is currently affected by construction noise from various nearby projects. Upon completion of these projects, it is expected that the acoustic environment in the locality will be affected primarily by road traffic noise from Plaza Parade and Aerodrome Road.

3. Equipment

The following equipment was used to record noise levels:

- Rion NL42 Environmental Noise Monitors
- Pulsar Model 106 Ltd Sound Calibrator

The Environmental Noise Monitors hold current NATA Laboratory Certification and was field calibrated before and after the monitoring period, with no significant drift from the reference signal recorded.

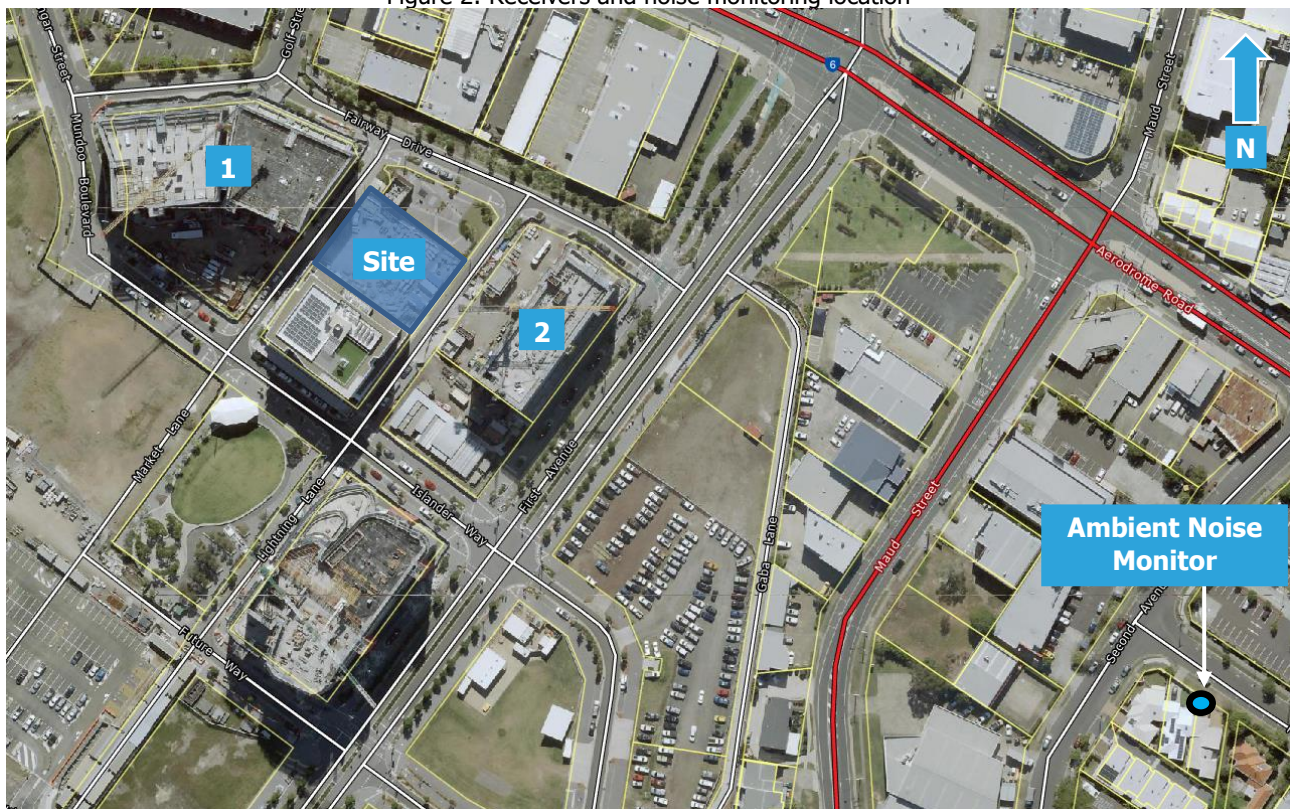
4. Receivers and Noise Monitoring

4.1 Receiver Locations

The nearest representative residential receiver locations were identified as follows;

1. A multi-storey residential building located west of the site at Lot 130 Market Lane.
2. Three storey residential townhouses located east of site at Lot 74 Lightning Lane.

Figure 2: Receivers and noise monitoring location



4.2 Unattended Ambient Noise Monitoring

A Rion NL42 environmental noise monitor was placed near the site to measure ambient noise levels. At the time of the assessment, the subject site is significantly impacted by construction noise from nearby developments. Therefore, in order to obtain representative ambient noise levels, a noise monitor was placed at 131 Parker Street. This location was chosen as it was away from construction activities near the site and is representative of the ambient noise levels as the monitoring location is approximately the same distance away from Aerodrome Road as the nearby receivers adjacent to the subject site.

The environmental noise monitor was set to record noise levels in "A" Weighting, Fast response using 15-minute statistical intervals. Ambient noise monitoring was conducted generally in accordance with Australian Standard AS1055:2018 *Acoustics – Description and measurement of environmental noise*.

The monitor was located in a free field position, with the microphone approximately 1.4 metres above ground surface level. The monitor was set to record noise levels between 11 November 2021 and 18 November 2021.

For the unattended noise monitoring location refer to Figure 2.

5. Measured Noise Levels

The following table presents the measured ambient noise levels from the unattended noise monitoring. Any periods of inclement weather or extraneous noise are omitted from the measured data prior to determining the overall results.

5.1 Ambient Noise Levels

The measured background noise levels from the unattended noise monitoring are as follows;

Table 1: Measure Ambient Noise Levels

Day	Date	L90 dB(A)		
		Day	Evening	Night
Thursday	11/11/21	47	49	53
Friday	12/11/21	47	43	41
Saturday	13/11/21	41	40	34
Sunday	14/11/21	42	40	35
Monday	15/11/21	44	40	35
Tuesday	16/11/21	43	39	36
Wednesday	17/11/21	46	45	36
Thursday	18/11/21	46		40
Overall value		45	42	39

Refer to the appendix for a graphical representation of the unattended noise monitoring.

6. Noise Criteria

6.1 Environmental Noise Criteria

In accordance with Sunshine Coast Regional Council Planning Scheme 2014, the following criteria shall be applied:

6.1.1 Acoustic Quality Objectives

Table 2 below presents the acoustic quality objectives at noise sensitive receptors as detailed in Schedule 1 of the Environmental Protection (Noise) Policy 2008.

Table 2: Acoustic Quality Objectives at Noise Sensitive Properties

Sensitive Receptor	Time of Day	Acoustic Quality Objectives, dB(A)		
		$L_{Aeq,adj,1hr}$	$L_{A10,adj,1hr}$	$L_{A1,adj,1hr}$
Dwelling (outdoors)	Day and Evening (7am – 10pm)	50	55	65
Dwelling (Indoors)	Day and Evening (7am – 10pm)	35	40	45
	Night (10pm - 7am)	30	35	40

6.1.2 Background Creep

The Background Creep criteria are as follows;

Time-varying noise:

$$L_{Aeq,adj,T} \leq L_{A90,T} \text{ Ambient} + 5dB(A)$$

Steady-state noise:

$$L_{Aeq,adj,T} \leq L_{A90,T} \text{ Ambient}$$

The time period (T) is a time interval of at least 15 minutes, or if the noise continues for less than 15 minutes, the duration of the noise source.

Based on the results of ambient noise monitoring, the project specific background creep noise limits are shown in Table 3.

Table 3: Background creep noise limits

Time Period	Noise Level Limits SPL dB(A)	
	Ambient $L_{A90,T}$	$L_{Aeq,T}$ ($L_{A90,T} \text{ Ambient} + 5dB(A)$)
Day 7am – 6pm	45	50
Evening 6pm – 10pm	42	47
Night 10pm – 7am	39	44

7. Onsite Activities

7.1 Methodology

Noise predictions were determined with SoundPlan 8.2 noise modelling software, which uses international standard *ISO 9613-2: 1996 Attenuation of sound during propagation outdoors* calculation methodology. This calculation methodology incorporates distance, terrain, screening features such as buildings and meteorological conditions.

For the assessment, cumulative impacts from activities in the multi-level car park have been assessed at the nearest residential receivers. Noise levels are predicted at the two receiver locations nominated in Figure 2 and impacts are calculated at the nearest point of the receiver to the site. Refer to Table 4 for the source sound power levels used in the SoundPlan model and Figure 3 for an isometric view of the model.

7.2 Noise Activities and Source Sound Power Levels

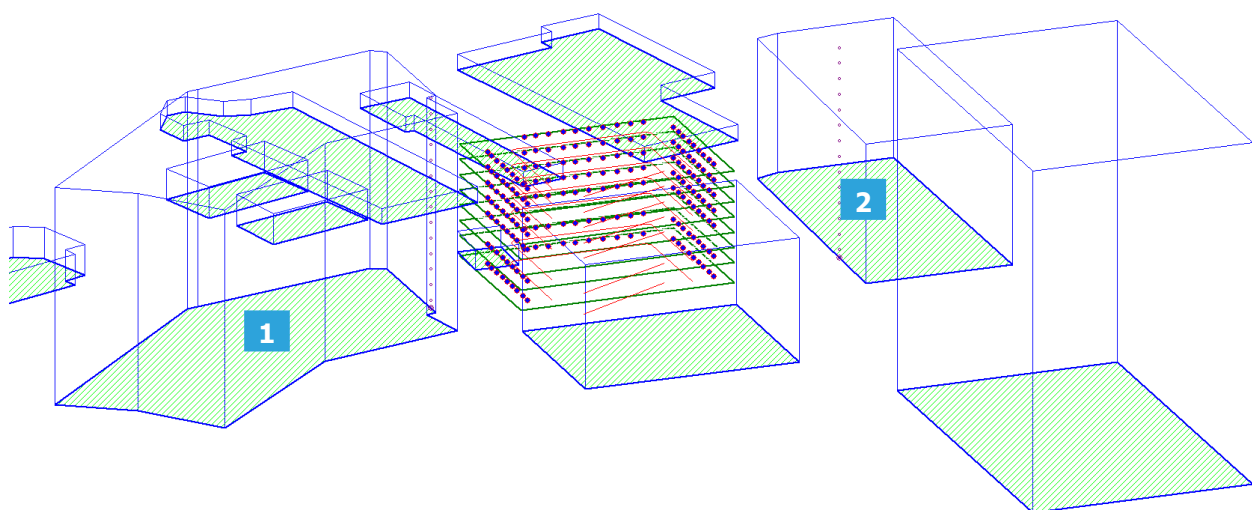
Noise associated with vehicle movement and general carpark activity has been assessed based on previous measurements of similar activities and the technical paper '*Parking Area Noise*' by Bayrsches Landesamt für Umwelt. The sound power levels of each noise source used in the model are presented in Table 4.

Table 4: Source Sound Power Levels

Activity	Source Height above ground (m)	Sound Power Level, dB(A)	Number of Events per 15 Minutes (All levels)			Duration of Event
			Day	Eve	Night	
Car Door Close	0.5	85	56	37	19	2 seconds
Car Engine Start	0.5	82	56	37	19	2 seconds
Car Passby	0.5	77	60	40	20	15 seconds
Car Travelling on Ramp	0.5	82	60	40	20	5 seconds

An isometric view of the SoundPlan model is presented in Figure 3.

Figure 3: Isometric View of SoundPlan Model



Receiver Locations

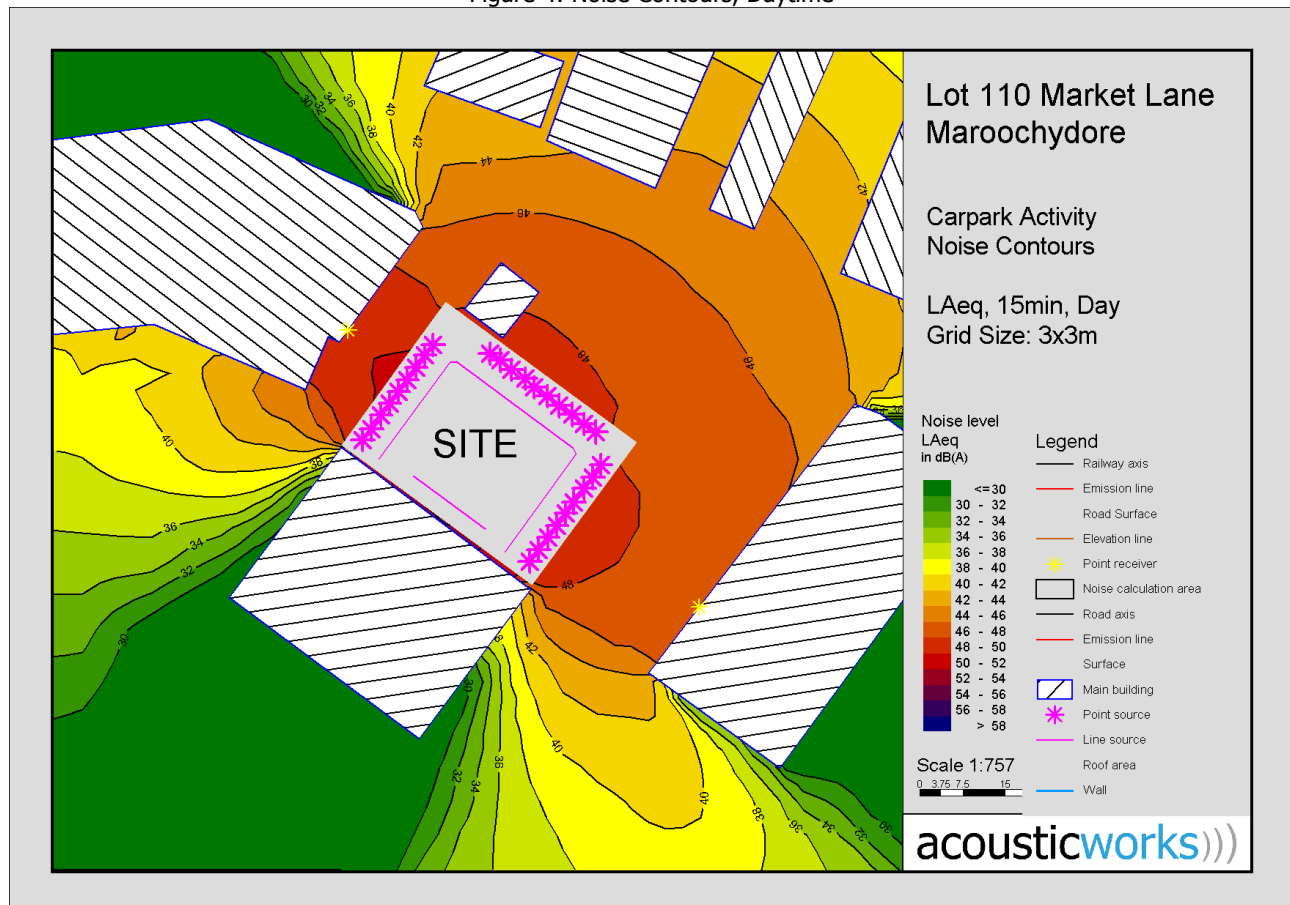
7.3 Noise Modelling Results

Noise impacts from the multi level car park were assessed using noise modelling software SoundPlan. Noise contours for each time period (day, evening, night) are presented in the following sections. The results are compared to the background creep noise criteria in Section 6.1.

7.3.1 Daytime Period (7am-6pm) Noise Impacts

Noise impacts from the multi-level car park during the daytime period are presented in Figure 4.

Figure 4: Noise Contours, Daytime

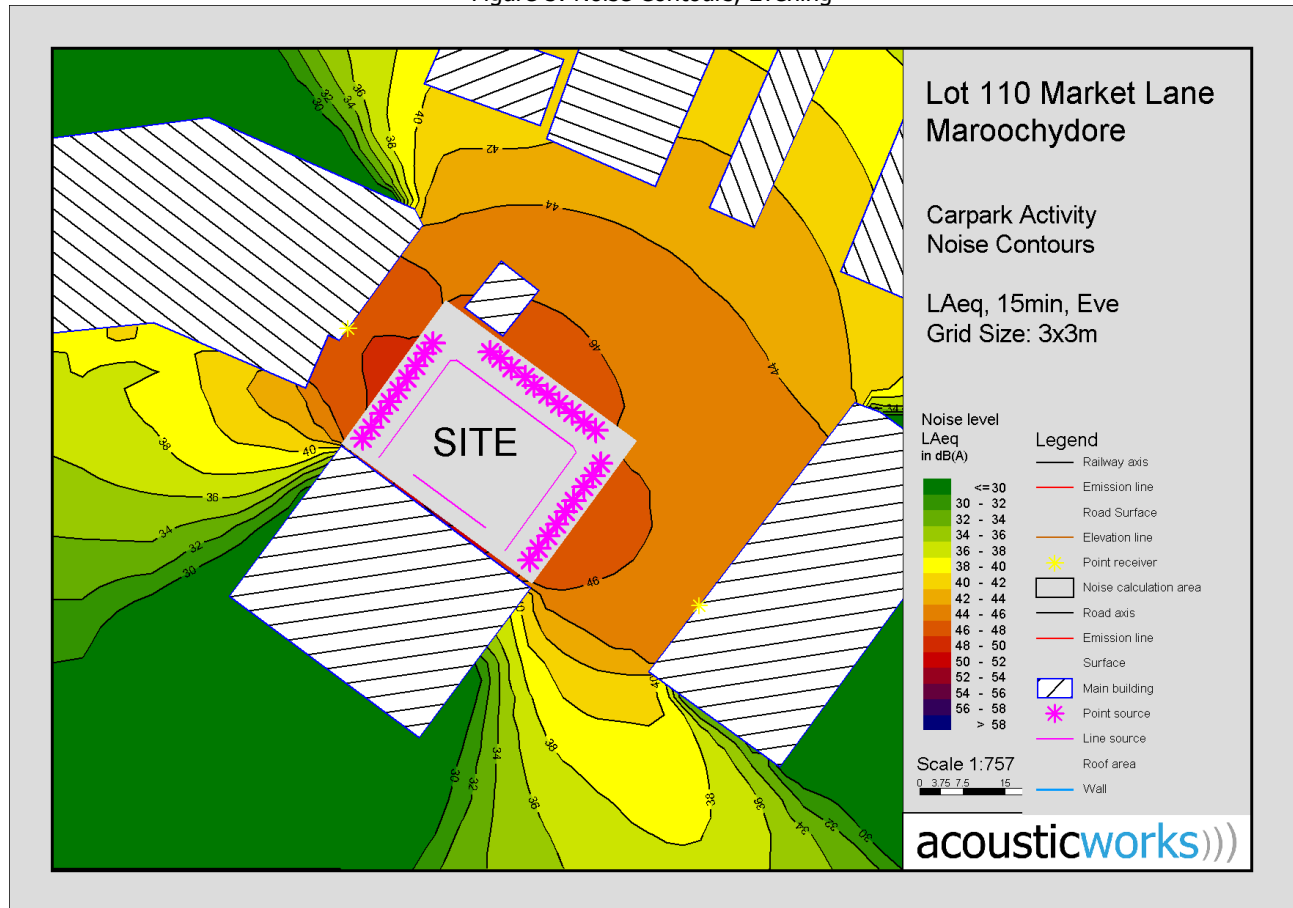


Noise impacts are predicted to be up to 46dBA at the western receiver and 44dBA at the eastern receiver for the daytime period. Therefore, compliance is predicted with the daytime background creep criteria.

7.3.2 Evening Period (6pm-10pm) Noise Impacts

Noise impacts from the multi-level car park during the evening period are presented in Figure 5.

Figure 5: Noise Contours, Evening

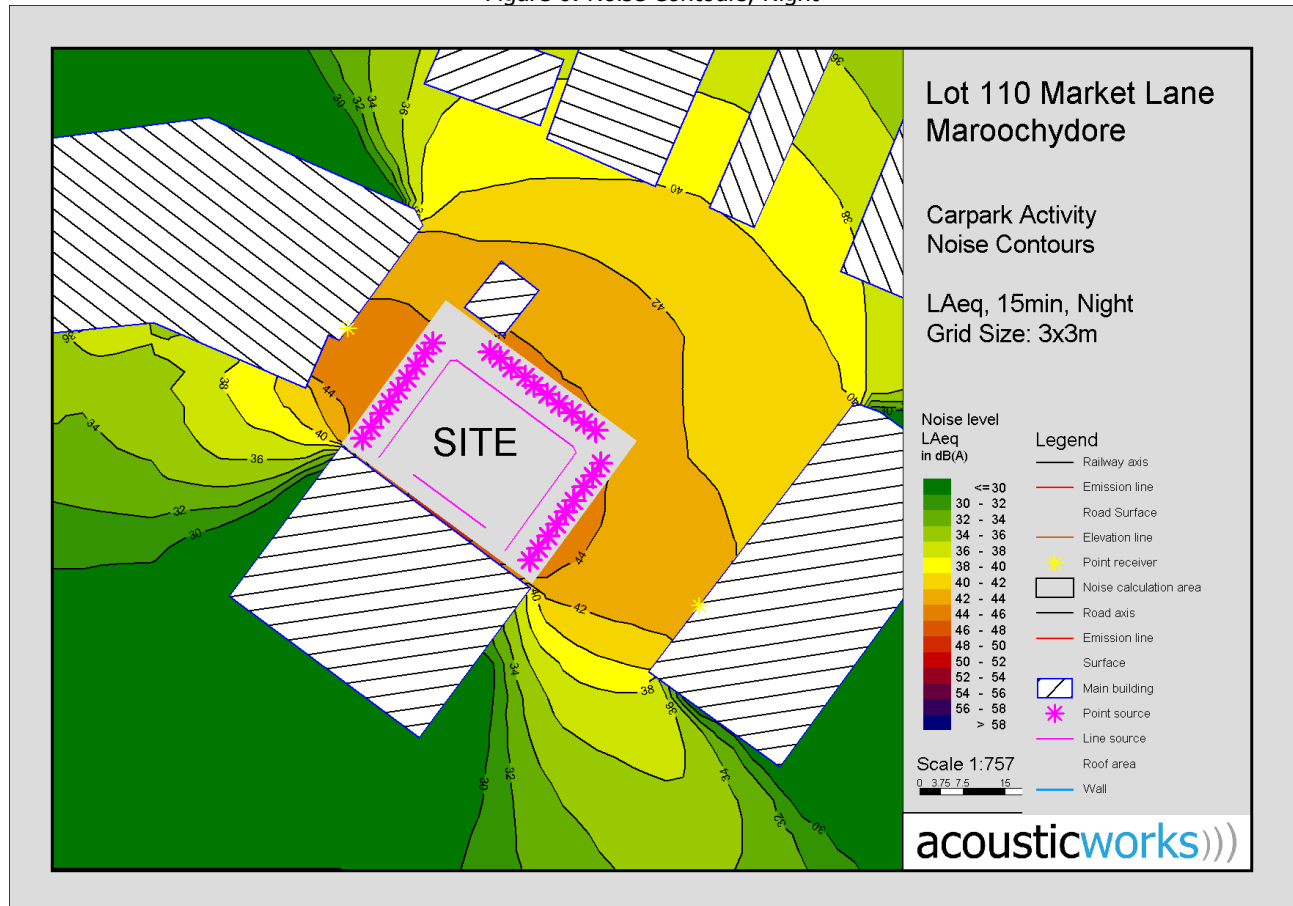


Noise impacts are predicted to be up to 45dBA at the western receiver and 43dBA at the eastern receiver for the evening period. Therefore, compliance is predicted with the evening background creep criteria.

7.3.3 Night Time Period (10pm-7am) Noise Impacts

Noise impacts from the multi-level car park during the night time period are presented in Figure 6.

Figure 6: Noise Contours, Night



Noise impacts are predicted to be up to 42dBA at the western receiver and 40dBA at the eastern receiver for the night time period. Therefore, compliance is predicted with the night time background creep criteria.

8. Recommendations

8.1 Onsite Noise Emissions

Compliance is predicted for onsite activities provided the following recommendations are implemented:

- It is recommended that waste collection for the ground level commercial properties is conducted in accordance with the neighbouring residents to reduce the potential for disturbance.
- All levels of the carpark should have a surface coating that prevents tyre squeal.
- Drainage grates must be bolted firmly to the driveway and rubber seals should be installed.
- Any boom gate voice operator or elevator call bell should be set to a volume which complies with the criteria stated in Section 6.1.

8.1.1 Onsite Mechanical Plant

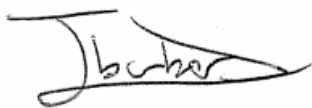
The multi level carpark is planned to be naturally ventilated and consequently there will be no related mechanical plant. As per the current drawings, some AC condenser units will be located in the loading dock for the ground level commercial/retail tenancies. No specific information regarding these services was available at the time of the assessment. We recommend that the ground level AC condensers are designed to comply with the criteria stated in Section 6.1.2. An assessment by a qualified acoustic consultant may be required prior to installation.

9. Conclusion

An environmental noise assessment was conducted for the proposed multi level car park at Lot 110 Market Lane, Maroochydore. Recommendations have been provided in relation to onsite noise impacts to neighbouring receivers. On the condition these recommendations are implanted, compliance is predicted with Sunshine Coast Regional Council environmental noise criteria.

If you should have any queries, please do not hesitate to contact us.

Report Prepared By



John Barker
Acoustic Consultant
acousticworks)))

10. Appendices

10.1 Development Plans

MULTI-STOREY CARPARK LOT 110 MARKET STREET MAROOCHYDORE



REAL PROPERTY

LOT #: 110
WARD: XX
TITLE AREA: 1365 m²

BUILDING USE CLASSIFICATION

CLASSIFICATION: 7A
RISE IN STOREY: 9
EFFECTIVE HEIGHT: 24.65 m
CONSTRUCTION TYPE: A
MAX. FIRE/ SMOKE COMPARTMENTS: 1

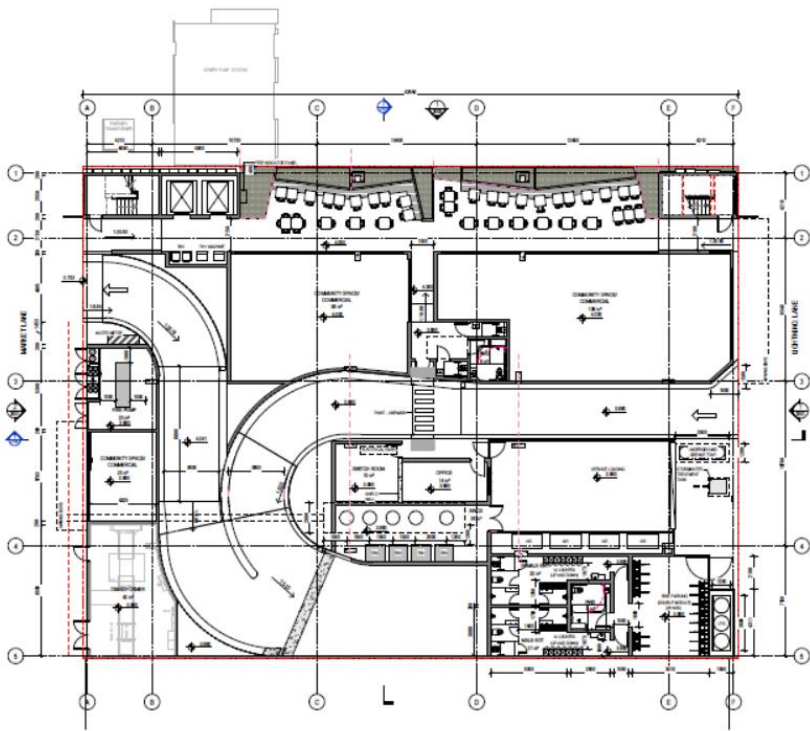
Real (a)	
DESCRIPTION	REMARKS
1. SITE	
2. BUILDING	
3. LANDSCAPE	
4. INFRASTRUCTURE	
5. OTHER	
6. TOTAL	

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PERSPECTIVE - NORTH FACADE

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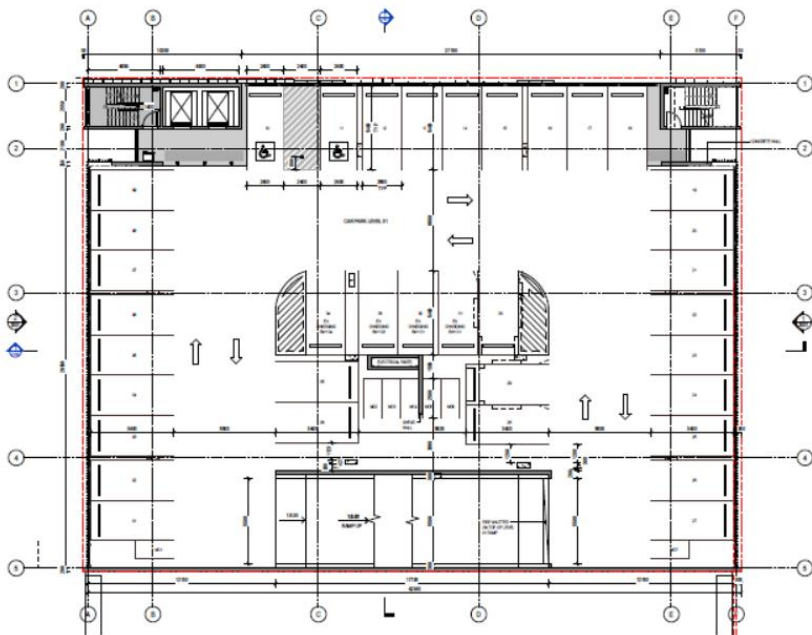
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CARPARK SCHEDULE OF LEVELS	
LEVEL	THRESHOLD
LEVEL 00	0.00
LEVEL 01	0.00
LEVEL 02	0.00
LEVEL 03	0.00
LEVEL 04	0.00
LEVEL 05	0.00
LEVEL 06	0.00
LEVEL 07	0.00
LEVEL 08	0.00
LEVEL 09	0.00
LEVEL 10	0.00
LEVEL 11	0.00
LEVEL 12	0.00
LEVEL 13	0.00
LEVEL 14	0.00
LEVEL 15	0.00
LEVEL 16	0.00
LEVEL 17	0.00
LEVEL 18	0.00
LEVEL 19	0.00
LEVEL 20	0.00
LEVEL 21	0.00
LEVEL 22	0.00
LEVEL 23	0.00
LEVEL 24	0.00
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LEVEL 26	0.00
LEVEL 27	0.00
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LEVEL 46	0.00
LEVEL 47	0.00
LEVEL 48	0.00
LEVEL 49	0.00
LEVEL 50	0.00



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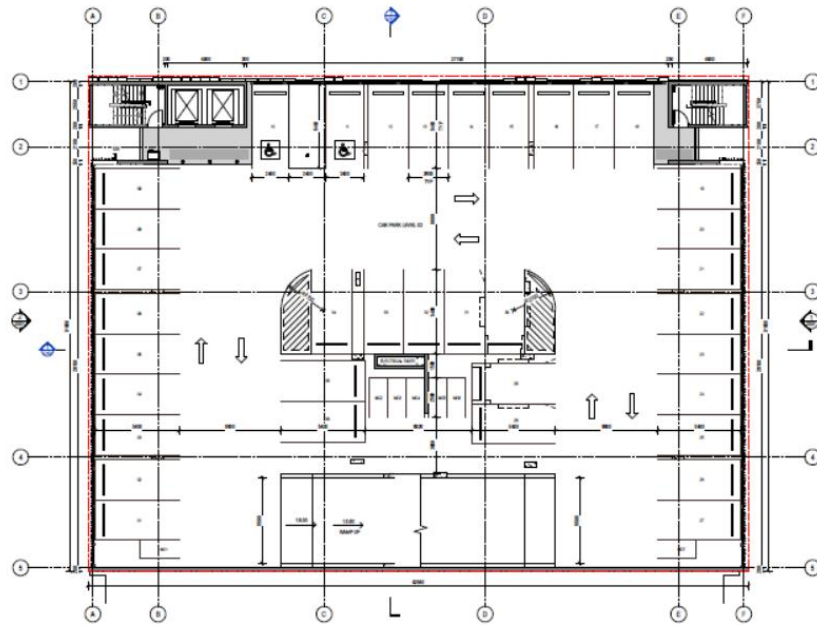
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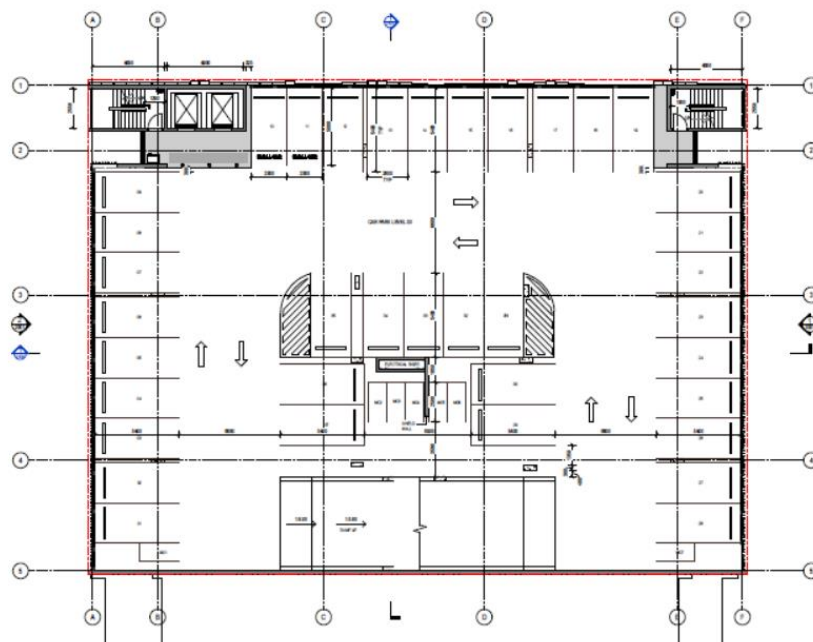
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FLOOR PLAN - LEVEL 02

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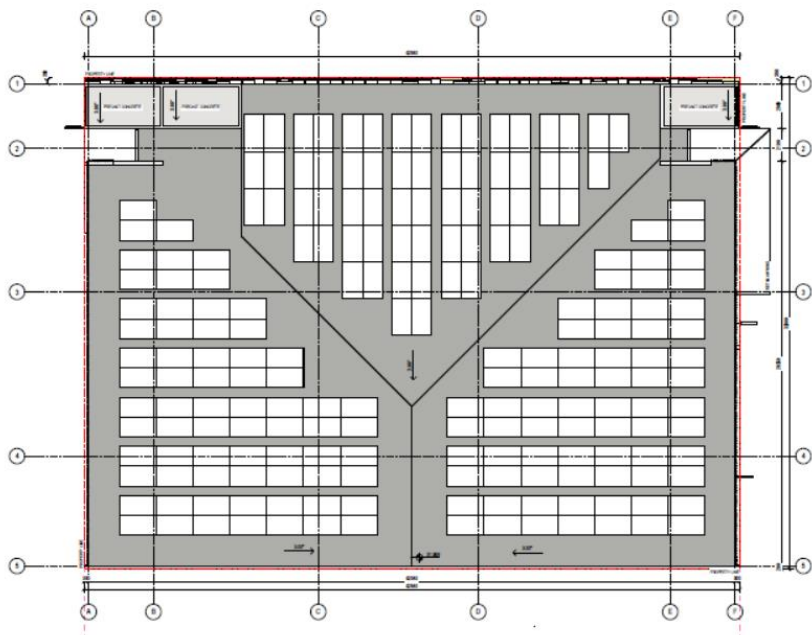
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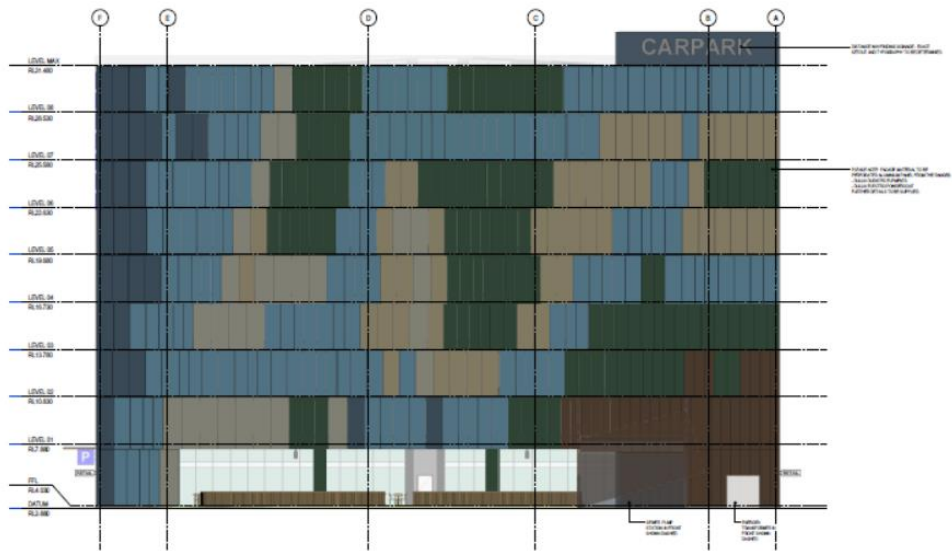
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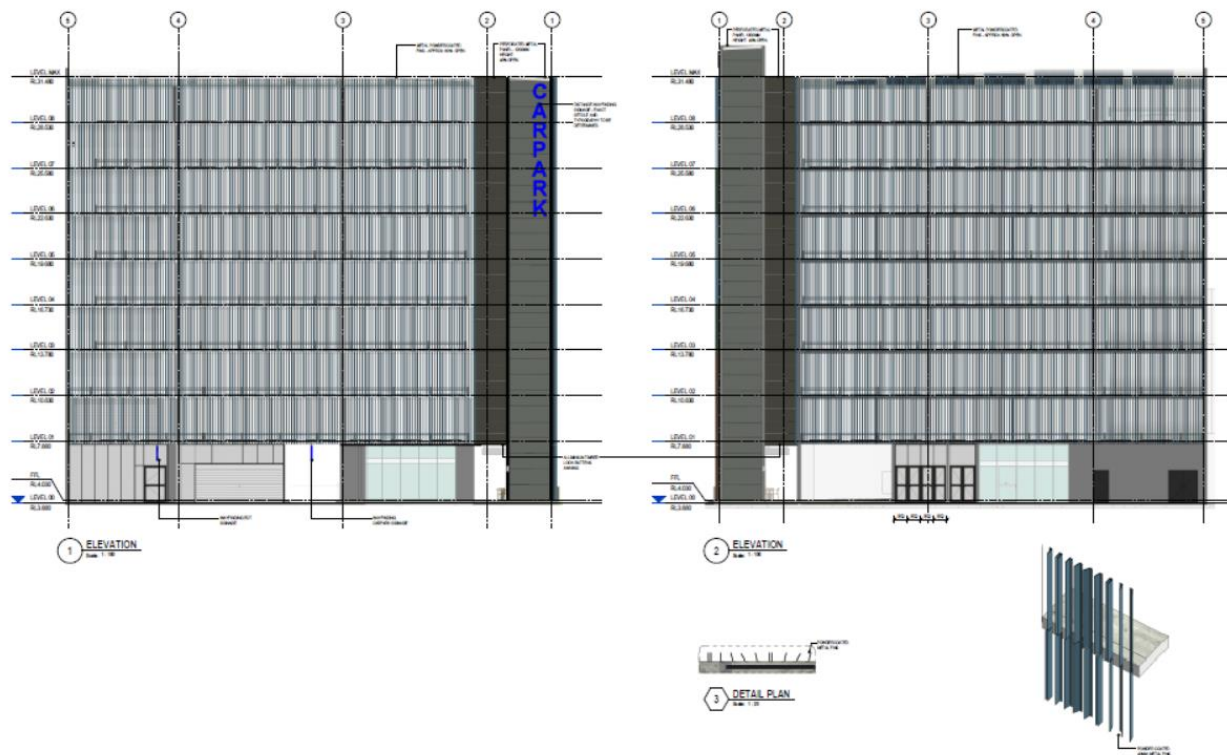
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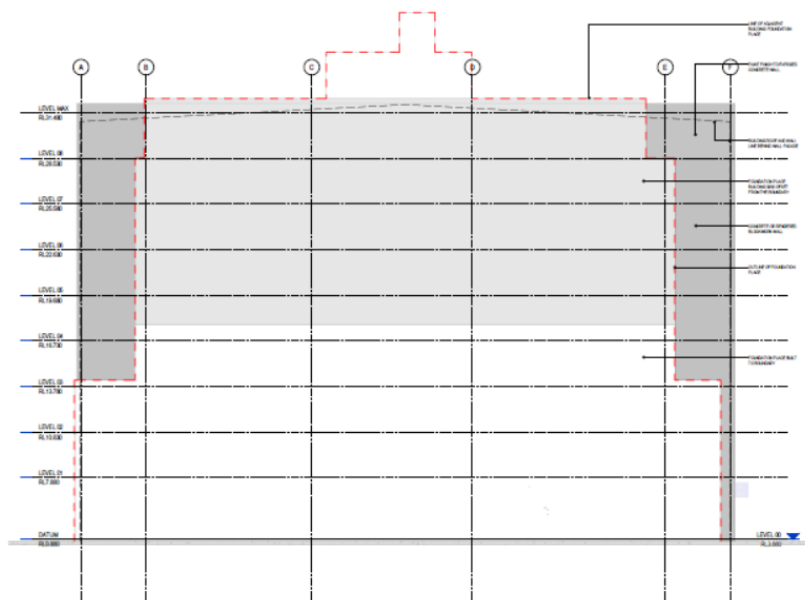
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NORTH ELEVATION

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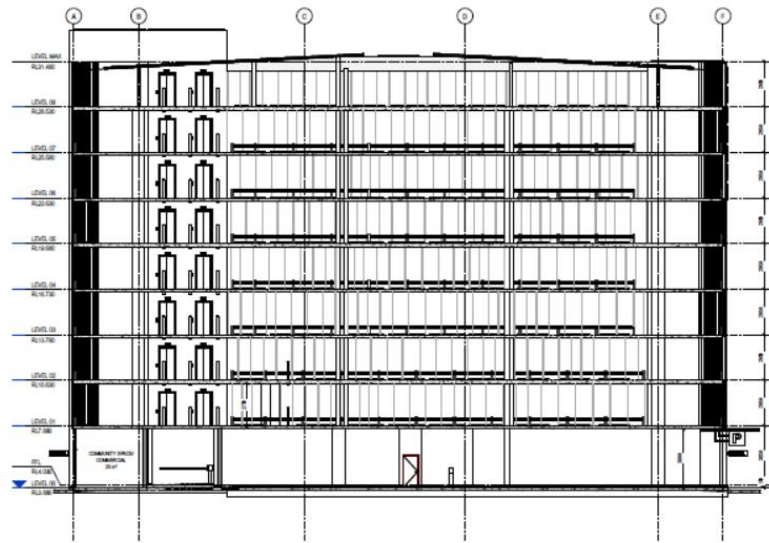




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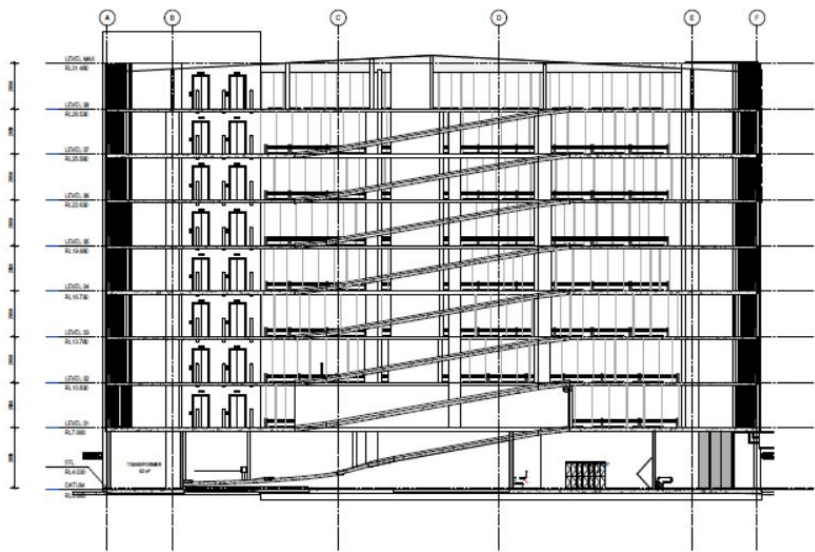
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CLIENT NAME
SUNSHINE COAST COUNCIL

PROJECT
MULTI-STOREY CARPARK
LOT 110 MARKET STREET
MAROOCHYDORE

Do not scale off this drawing.

DRAWING TITLE
DRAFT SECTION



Project No:
Date:
Scale:
Drawn / Check:
SD - 2022

Issue Date:
1:100@ A1
Author / MC
1
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10.2 Noise Monitoring Charts

