

# Noise Assessment

Proposed McDonald's Operation  
37 Roseberry Street  
Balgowlah, NSW





# Document Information

## Noise Assessment

Proposed McDonald's Operation

37 Roseberry Street

Balgowlah, NSW

**Prepared for:** McDonald's Australia Limited

21–29 Central Avenue

Thornleigh NSW 2120

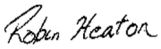

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# 1 Introduction

Muller Acoustic Consulting Pty Ltd (MAC) has been commissioned by McDonald's Australia Limited (MCD) to prepare a Noise Assessment (NA) to quantify emissions from proposed McDonald's Operation (the operation) to be located at 37 Roseberry Street, Balgowlah, NSW.

The NA has quantified potential operational and sleep disturbance noise emissions from the operation and recommends reasonable and feasible noise controls where required.

This assessment has been undertaken in accordance with the following documents:

- NSW Department of Environment and Climate Change (DECCW), NSW Interim Construction Noise Guideline (ICNG), July 2009;
- NSW Environment Protection Authority (EPA), Noise Policy for Industry (NPI), 2017;
- NSW Environment Protection Authority (EPA's), Approved Methods for the measurement and analysis of environmental noise in NSW, 2022;
- Standards Australia AS/NZS IEC 61672:1-2019 (AS 61672) – Electro Acoustics - Sound Level Meters Specifications; and
- Standards Australia AS 1055:2018 - Acoustics - Description and measurement of environmental noise - General Procedures.

A glossary of terms, definitions and abbreviations used in this report is provided in **Appendix A**.



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## 2 Project Description

### 2.1 Background

The operation is to be located at 37 Roseberry Street, Balgowlah, NSW, which is on land zoned as E3, productivity zone. The receivers immediately to the north across Kenneth Road have been identified as residential with additional residential receivers located to the north east across Roseberry Street.

To the west and south of the operation site are commercial receivers with an additional receiver to the west and north. The ambient noise environment surrounding the proposed operation is dominated by traffic noise.

The operation will consist of a new operation building with two drive-thru lanes and associated car park spaces. The operation is proposed to operate 24 hours a day, seven days a week. **Appendix B** provides the site layout plans of the operation.

#### 2.1.1 Receiver Review

A review of residential and non-residential receivers in proximity to the operation has been completed and are summarised in **Table 1**. **Figure 1** provides a locality plan showing the position of these receivers in relation to the operation.

Table 1 Receiver Locations				
Receiver	Receiver Type	Receiver Height, m	Coordinates (MGA56)	
			Easting	Northing
R01	Residential	4.5/7.5	339593	6260167
R02	Residential	1.5/4.5/7.5	339604	6260162
R03	Residential	1.5/4.5/7.5	339618	6260160
R04	Residential	2/5/8	339662	6260160
C01	Commercial	1.5/4.5/7.5/10.5	339562	6260168
C02	Commercial	1.5/4	339650	6260132
C03	Commercial	1.5/4	339642	6260073
C04	Commercial	1.5/5/8	339620	6260090
C05	Commercial	1.5	339587	6260095
C06	Commercial	1.5	339553	6260093
C07	Commercial	1.5	339563	6260140



## 2.2 Proposed Activities & Operating Hours

There are several key activities associated with the operation that have the potential to generate acoustic impacts on nearby receivers. **Table 2** provides a summary of operation noise sources and the assessment period in which they propose to occur.

Table 2 Noise Generating Activities		
Activity/Source	Period <sup>1</sup>	Operational
Customer light vehicles	Day	✓
	Evening	✓
	Night	✓
Truck consumable deliveries	Day	✓
	Evening	✓
	Night	X
Waste collection	Day	✓
	Evening	✓
	Night	✓
Drive-Thru operations	Day	✓
	Evening	✓
	Night	✓
Mechanical plant	Day	✓
	Evening	✓
	Night	✓

Note 1: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.



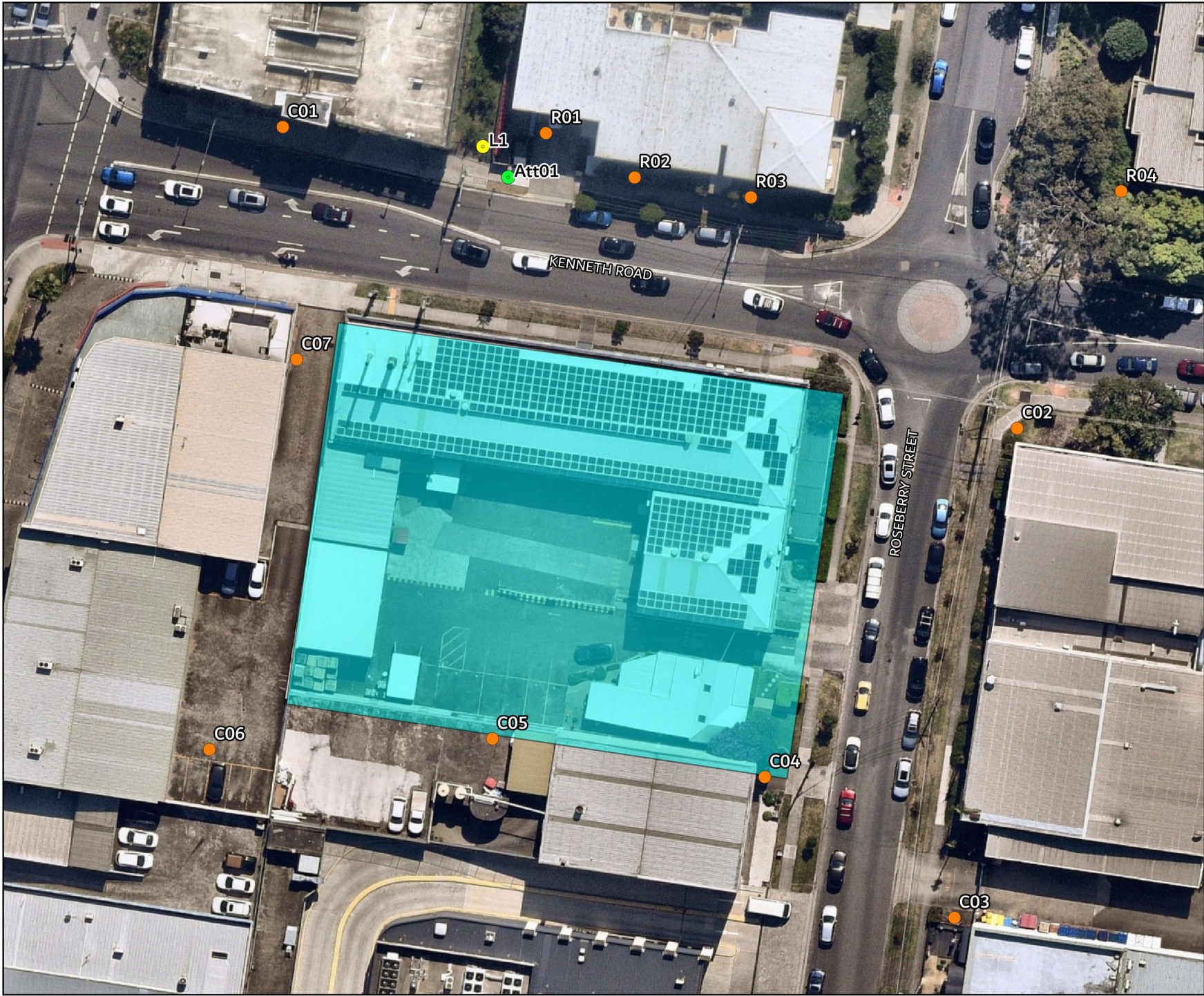
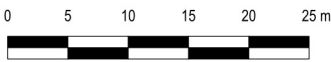


FIGURE 1  
Locality Plan  
MAC242248-01  
McDonald's Balagowlah

**KEY**

- Receiver
- Unattended Noise Monitoring Location
- Attended Noise Monitoring Location
- Site Boundary





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### 3 Noise Policy and Guidelines

#### 3.1 Noise Policy for Industry

The EPA released the Noise Policy for Industry (NPI) in October 2017 which provides a process for establishing noise criteria for consents and licenses enabling the EPA to regulate noise emissions from scheduled premises under the Protection of the Environment Operations Act 1997. The objectives of the NPI are to:

- provide noise criteria that is used to assess the change in both short term and long-term noise levels;
- provide a clear and consistent framework for assessing environmental noise impacts from industrial premises and industrial development proposals;
- promote the use of best-practice noise mitigation measures that are feasible and reasonable where potential impacts have been identified; and
- support a process to guide the determination of achievable noise limits for planning approvals and/or licences, considering the matters that must be considered under the relevant legislation (such as the economic and social benefits and impacts of industrial development).

The policy sets out a process for industrial noise management involving the following key steps:

1. Determine the Project Noise Trigger Levels (PNTLs) (ie criteria) for a development. These are the levels (criteria), above which noise management measures are required to be considered. They are derived by considering two factors: shorter-term intrusiveness due to changes in the noise environment; and maintaining the noise amenity of an area.
2. Predict or measure the noise levels produced by the development with regard to the presence of annoying noise characteristics and meteorological effects such as temperature inversions and wind.
3. Compare the predicted or measured noise level with the PNTL, assessing impacts and the need for noise mitigation and management measures.
4. Consider residual noise impacts - that is, where noise levels exceed the PNTLs after the application of feasible and reasonable noise mitigation measures. This may involve balancing economic, social and environmental costs and benefits from the proposed development against the noise impacts, including consultation with the affected community where impacts are expected to be significant.



5. Set statutory compliance levels that reflect the best achievable and agreed noise limits for the development.
6. Monitor and report environmental noise levels from the development.

### 3.1.1 Project Noise Trigger Levels (PNTL)

The policy sets out the procedure to determine the PNTLs relevant to an industrial development. The PNTL is the lower (ie, the more stringent) of the **Project Intrusiveness Noise Level (PINL)** and **Project Amenity Noise Level (PANL)** determined in accordance with Section 2.3 and Section 2.4 of the NPI.

### 3.1.2 Rating Background Level (RBL)

The Rating Background Level (RBL) is a determined parameter from noise monitoring and is used for assessment purposes. As per the NPI, the RBL is an overall single figure background level representing each assessment period (day, evening and night) over the noise monitoring period. The measured RBLs relevant to the project are contained in **Section 4**.

### 3.1.3 Project Intrusiveness Noise Level (PINL)

The PINL ( $L_{Aeq}(15min)$ ) is the RBL + 5dB and seeks to limit the degree of change a new noise source introduces to an existing environment. Hence, when assessing intrusiveness, background noise levels need to be measured.

Background noise levels need to be determined before intrusive noise can be assessed. The NPI states that background noise levels to be measured are those that are present at the time of the noise assessment and without the subject development operating.

### 3.1.4 Project Amenity Noise Level (PANL)

The PANL is relevant to a specific land use or locality. To limit continuing increases in intrusiveness levels, the ambient noise level within an area from all combined industrial sources should remain below the recommended amenity noise levels specified in Table 2.2 (of the NPI). The NPI defines two categories of amenity noise levels:

- **Amenity Noise Levels (ANL)** – are determined considering all current and future industrial noise within a receiver area; and
- **Project Amenity Noise Level (PANL)** – is the recommended level for a receiver area, specifically focusing the project being assessed.



Additionally, Section 2.4 of the NPI states: “to ensure that industrial noise levels (existing plus new) remain within the recommended amenity noise levels for an area, a Project Amenity Noise Level applies for each new source of industrial noise as follows”:

**PANL** for new industrial developments = recommended **ANL** minus 5dBA.

The following exceptions apply when deriving the PANL:

- areas with high traffic noise levels;
- proposed developments in major industrial clusters;
- existing industrial noise and cumulative industrial noise effects; and
- greenfield sites.

The NPI states with respect to high traffic noise areas:

*The level of transport noise, road traffic noise in particular, may be high enough to make noise from an industrial source effectively inaudible, even though the LAeq noise level from that industrial noise source may exceed the Project Amenity Noise Level. In such cases the Project Amenity Noise Level may be derived from the LAeq, period(traffic) minus 15 dB(A).*

Where relevant this assessment has considered influences of traffic with respect to Amenity Noise Levels (ie areas where existing traffic noise levels are 10dB greater than the recommended Amenity Noise Level).



The recommended Amenity Noise Levels as per Table 2.2 of the NPI are reproduced in **Table 3**.

**Table 3 Amenity Noise Levels**

Receiver Type	Noise Amenity Area	Time of day <sup>1</sup>	Recommended Amenity Noise Level dB LAeq(period)
Residential	Rural	Day	50
		Evening	45
		Night	40
	Suburban	Day	55
		Evening	45
		Night	40
	Urban	Day	60
		Evening	50
		Night	45
Hotels, motels, caretakers' quarters, holiday accommodation, permanent resident caravan parks.	See column 4	See column 4	5dB above the recommended Amenity Noise Level for a residence for the relevant noise amenity area and time of day
School Classroom	All	Noisiest 1-hour period when in use	35 (internal) 45 (external)
Hospital ward			
- internal	All	Noisiest 1-hour	35
- external	All	Noisiest 1-hour	50
Place of worship			
- internal	All	When in use	40
Passive Recreation	All	When in use	50
Active Recreation	All	When in use	55
Commercial premises	All	When in use	65
Industrial	All	When in use	70

Note 1: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Notes: The recommended Amenity Noise Levels refer only to noise from industrial noise sources. However, they refer to noise from all such sources at the receiver location, and not only noise due to a specific project under consideration. The levels represent outdoor levels except where otherwise stated.

Types of receivers are defined as rural residential; suburban residential; urban residential; industrial interface; commercial; industrial – see Table 2.3 and Section 2.7 of the NPI.



### 3.1.5 Maximum Noise Assessment Trigger Levels

The potential for sleep disturbance from maximum noise level events from a project during the night-time period needs to be considered. The NPI considers sleep disturbance to be both awakenings and disturbance to sleep stages.

Where night-time noise levels from a development/premises at a residential location exceed the following criteria, a detailed maximum noise level event assessment should be undertaken:

- LAeq(15min) 40dB or the prevailing RBL plus 5dBA, whichever is the greater, and/or
- LAmax 52dB or the prevailing RBL plus 15dBA, whichever is the greater.

A detailed assessment should cover the maximum noise level, the extent to which the maximum noise level exceeds the rating background noise level, and the number of times this happens during the night-time period.

Other factors that may be important in assessing the impacts on sleep disturbance include:

- how often the events would occur;
- the distribution of likely events across the night-time period and the existing ambient maximum events in the absence of the development;
- whether there are times of day when there is a clear change in the noise environment (such as during early morning shoulder periods); and
- current understanding of effects of maximum noise level events at night.

The NPI outlines that additional guidance on maximum noise level assessments may be sourced from the EPA NSW Road Noise Policy (RNP). Section 5.4 of the RNP outlines that a maximum internal noise level of 50-55dBA is unlikely to awaken people from sleep. Taking into account a 10dB loss for a partially open window an external level of 65dBA is unlikely to awaken internal occupants. This level has been adopted to assess the impact of maximum noise events on occupant of commercial residential land uses to safeguard against sleep disturbance. The recommended Amenity Noise Level for the night period will be adopted for awakening assessment for these receivers.



### 3.2 Interim Construction Noise Guideline

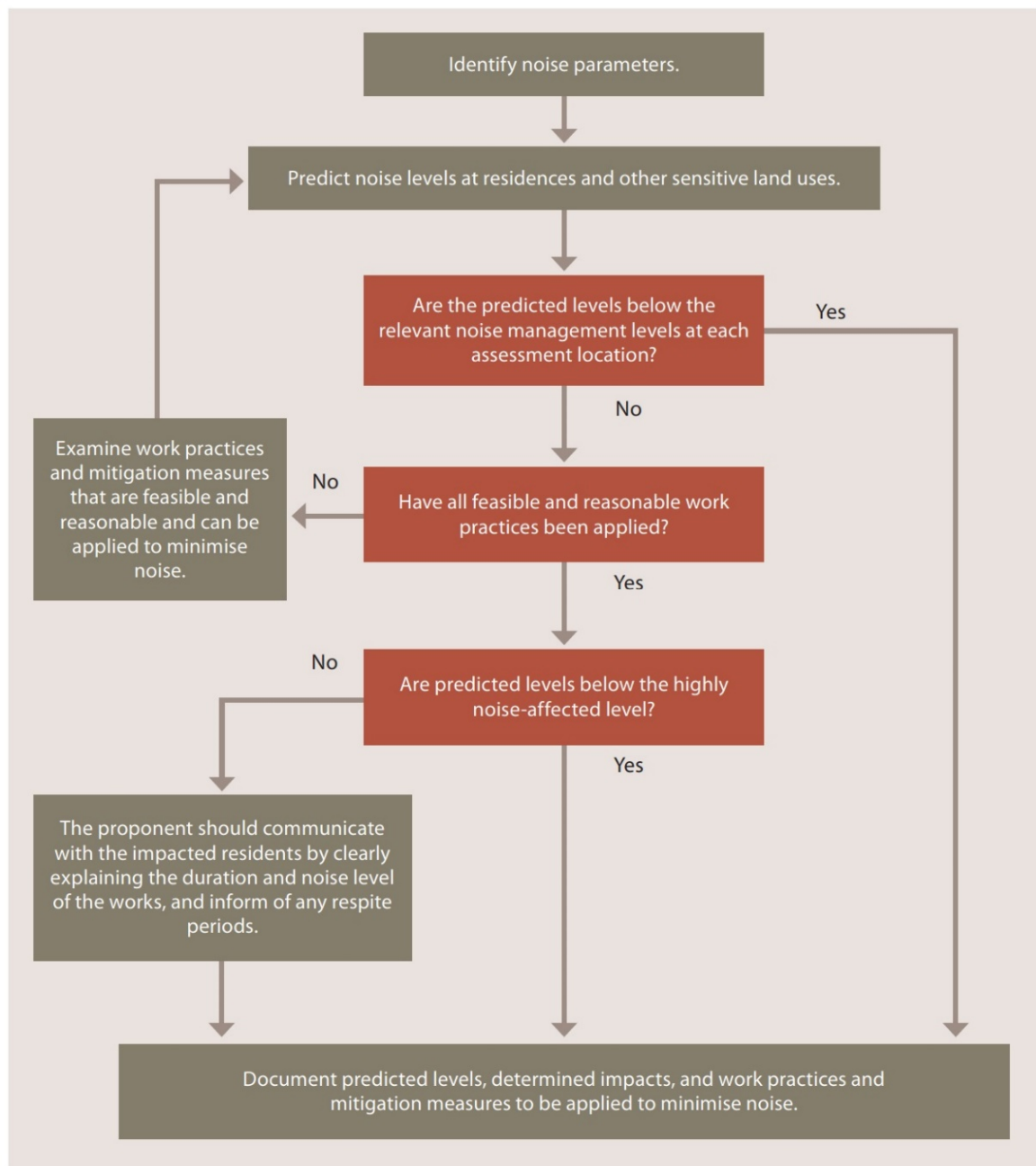
The ICNG sets out procedures to identify and address the impacts of construction noise on residences and other sensitive land uses. This section provides a summary of noise objectives that are applicable to the assessment. The ICNG provides two methodologies for the assessment of construction noise emissions:

- quantitative, which is suited to major construction projects with typical durations of more than three weeks; and
- qualitative, which is suited to short term infrastructure maintenance (< three weeks).

The qualitative assessment methodology is a more simplified approach that relies on noise management strategies. This NA has adopted a quantitative assessment approach which is summarised in **Figure 2**. The quantitative approach includes identification of potentially affected receivers, derivation of the construction Noise Management Levels, quantification of potential noise impact at receivers via predictive modelling and, provides management and mitigation recommendations.



Figure 2 Quantitative Assessment Processes for Assessing and Managing Construction Noise



Source: Department of Environment and Climate Change, 2009.



### 3.2.1 Standard Hours for Construction

**Table 4** presents the ICNG recommended standard hours for construction works.

Table 4 Recommended Standard Hours for Construction	
Daytime	Construction Hours
Monday to Friday	7am to 6pm
Saturdays	8am to 1pm
Sundays or Public Holidays	No construction

These recommended hours do not apply in the event of direction from police, or other relevant authorities, for safety reasons or where required in an emergency to avoid the loss of lives, property and/or to prevent environmental harm. Construction activities are anticipated to be undertaken during standard construction hours.

### 3.2.2 Construction Noise Management Levels

Section 4 of the ICNG details the quantitative assessment method involving predicting noise levels and comparing them with the Noise Management Level (NML) and are important indicators of the potential level of construction noise impact. **Table 5** reproduces the ICNG Noise Management Level (NML) for residential receivers. The NML is determined by adding 10dB (standard hours) or 5dB for Out of Hours (OOH) to the Rating Background Level (RBL) for each specific assessment period.



**Table 5 Noise Management Levels**

Time of Day	Management Level	
	LAeq(15min) <sup>1</sup>	How to Apply
Recommended standard hours: Monday to Friday 7am to 6pm Saturday 8am to 1pm No work on Sundays or public holidays.	Noise affected RBL + 10dB	The noise affected level represents the point above which there may be some community reaction to noise.  Where the predicted or measured LAeq(15min) is greater than the noise affected level, the proponent should apply all feasible and reasonable work practices to meet the noise affected level.  The proponent should also inform all potentially impacted residents of the nature of work to be carried out, the expected noise levels and duration, as well as contact details.
	Highly Noise Affected 75dBA (HNA)	The highly noise affected level represents the point above which there may be strong community reaction to noise.  Where noise is above this level, the relevant authority (consent, determining or regulatory) may require respite periods by restricting the hours that the very noisy activities can occur, taking into account times identified by the community when they are less sensitive to noise such as before and after school for work near schools, or mid-morning or mid-afternoon for work near residences; and if the community is prepared to accept a longer period of construction in exchange for restrictions on construction times.
Outside recommended standard hours.	Noise affected RBL + 5dB	A strong justification would typically be required for work outside the recommended standard hours.  The proponent should apply all feasible and reasonable work practices to meet the noise affected level.  Where all feasible and reasonable practices have been applied and noise is more than 5dBA above the noise affected level, the proponent should negotiate with the community.  For guidance on negotiating agreements see Section 7.2.2 of the ICNG.

Note 1: The Rating Background Level (RBL) is an overall single figure background level representing each assessment period over the whole monitoring period. The RBL is used to determine the construction Noise Management Levels for noise assessment purposes and is the median of the ABL's.

### 3.2.3 Minimising Construction Noise

The ICNG outlines noise management and mitigation measures to minimise the noise impacts from construction activities on nearby sensitive receivers. Adopting the standard mitigation measures may result in an attenuation of up to 10dBA where space requirements place limitations on the attenuation options. Examples of standard mitigation measures are reproduced in **Table 6**, which may be adopted for the operation.



**Table 6 Standard Mitigation Measures**

	Action Required	Details
Management Measures	Implement community consultation or notification measures	<p>Notification detailing work activities, dates, and hours, impacts and mitigation measures, indication of work schedule over the night-time period, any operational noise benefits from the works (where applicable) and contact telephone number. Notification should be a minimum of 7 calendar days prior to the start of works. For projects other than maintenance works more advanced consultation or notification may be required. Please contact Roads and Maritime Communication and Stakeholder Engagement for guidance:</p> <ul style="list-style-type: none"> <li>- website (If required);</li> <li>- contact telephone number for community;</li> <li>- email distribution list (if required); and/or</li> <li>- community drop-in session (if required by approval conditions).</li> </ul>
	Site Inductions	<p>All employees, contractors and subcontractors are to receive an environmental induction. The induction must at least include:</p> <ul style="list-style-type: none"> <li>- all relevant project specific and standard noise and vibration mitigation measures;</li> <li>- relevant licence and approval conditions;</li> <li>- permissible hours of work;</li> <li>- any limitations on noise generating activities;</li> <li>- location of nearest sensitive receivers;</li> <li>- construction employee parking areas;</li> <li>- designated loading/unloading areas and procedures;</li> <li>- site opening/closing times (including deliveries); and</li> <li>- environmental incident procedures.</li> </ul>
Site Controls	Minimise disturbance arising from delivery of goods to construction sites	<p>Loading and unloading of materials/deliveries is to occur as far as possible from sensitive receivers.</p> <p>Select site access points and roads as far as possible away from sensitive receivers.</p> <p>Dedicated loading/unloading areas to be shielded if close to sensitive receivers.</p> <p>Delivery vehicles to be fitted with straps rather than chains for unloading, wherever possible.</p> <p>Avoid or minimise these out of hours movements where possible.</p>
	Shield stationary noise sources	<p>Stationary noise sources should be enclosed or shielded whilst ensuring that the occupational health and safety of workers is maintained. Appendix D of AS2436:2010 lists materials suitable for shielding.</p>
Path Controls	Shield sensitive receivers from noise activities	<p>Use structures to shield residential receivers from noise such as site shed placement; earth bunds; fencing; erection of operational stage noise barriers (where practicable) and consideration of site topography when siting plant.</p>



## 4 Existing Environment

### 4.1 Unattended Noise Monitoring

To quantify the existing background noise environment of the area, unattended noise monitoring was conducted at one location representative of the ambient environment surrounding the project site. The selected monitoring location is shown in **Figure 1** and is considered representative of surrounding residential receivers as per Fact Sheet B1.1 of the NPI.

The unattended noise survey was conducted in general accordance with the procedures described in Standards Australia AS 1055:2018, "Acoustics – Description and Measurement of Environmental Noise".

The measurements were carried out using one Svantek 977 noise analyser from Wednesday 16 October 2024 to Friday 25 October 2024. All acoustic instrumentation used carries appropriate and current NATA (or manufacturer) calibration certificates with records of all calibrations maintained by MAC as per Approved Methods for the measurement and analysis of environmental noise in NSW (EPA, 2022) and complies with AS/NZS IEC 61672.1-2019-Electroacoustics - Sound level meters - Specifications. Calibration of all instrumentation was checked prior to and following measurements. Drift in calibration did not exceed  $\pm 0.5$  dBA.

Observations on-site identified the surrounding locality was typical of an urban environment, with traffic noise as the dominant noise source.

Data affected by adverse meteorological conditions have been excluded from the results in accordance with methodologies provided in Fact Sheet A4 of the NPI. Residential receivers situated in the surrounding area have been classified under the EPA's urban amenity category. This criterion is used in conjunction with the intrusiveness criteria to determine the limiting criteria. The results of long-term unattended noise monitoring are provided in **Table 7**. The noise monitoring charts, and a summary of the background monitoring data are provided in **Table C21** in **Appendix C**.

**Table 7 Background Noise Monitoring Summary**

Monitoring Location	Period <sup>1</sup>	Measured Background Noise Level (LA90)	Measured
		dB RBL	dB LAeq
L1	Day	56	65
	Evening	50	63
	Night	40	61

Note 1: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Note: Excludes periods of wind or rain affected data. Meteorological data obtained from the Bureau of Meteorology weather station Sydney Observatory Hill AWS (33.85°S 151.20°E 44m AMSL).

Note: Calibration certificates of the sound level meters used for this project are available on request.



## 4.2 Attended Noise Monitoring

To supplement the unattended noise assessment and to quantify the changes in ambient noise in the community surrounding the operation, one 15 minute attended measurement was completed.

The attended noise survey was conducted in general accordance with the procedures described in Australian Standard AS 1055:2018, "Acoustics – Description and Measurement of Environmental Noise".

The acoustic instrumentation used carries current NATA calibration and complies with AS/NZS IEC 61672.1-2019-Electroacoustics - Sound level meters - Specifications. Calibration of all instrumentation was checked prior to and following measurements. Drift in calibration did not exceed  $\pm 0.5$  dBA. All equipment carries appropriate and current NATA (or manufacturer) calibration certificates with records of all calibrations maintained by MAC as per the EPA's Approved Methods for the measurement and analysis of environmental noise in NSW (EPA, 2022).

The attended noise monitoring was conducted using one Svantek 971 noise analyser at the site (see **Figure 1**) on Wednesday 16 October 2024 to quantify ambient background noise levels.

The attended measurement was completed during calm and clear meteorological conditions and confirmed that ambient traffic and commercial noise dominated the surrounding environment. The results of the short-term noise measurement and observations are summarised in **Table 8**.

Table 8 Operator-Attended Noise Survey Results					
Date/Time (hrs)	Noise Descriptor (dBA re 20 $\mu$ Pa)			Meteorology	Description and SPL, dBA
	L <sub>Amax</sub>	L <sub>Aeq</sub>	L <sub>A90</sub>		
16/10/2024	85	66	58	WD: SE	Traffic 50-85
13:35				WS: 0.4m/s	Urban Hum 48-58
				Rain: Nil	



## 5 Assessment Criteria

### 5.1 Operational Noise Trigger Levels (Criteria)

This section outlines the determination of PNTLs and Maximum Noise Assessment Trigger Levels in accordance with NPI methodology.

#### 5.1.1 Intrusiveness Noise Levels

The PINL for the project are presented in **Table 9** and have been determined based on the RBL +5dBA and only apply to residential receivers.

**Table 9 Project Intrusiveness Noise Levels**

Location	Receiver Type	Period <sup>1</sup>	Measured RBL dB LA90	Adopted RBL dB LA90	PINL dB LAeq(15min)
L1	Residential	Day	56	56	61
		Evening	50	50	55
		Night	40	40	45

Note 1: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

#### 5.1.2 Determination of NPI Residential Receiver Amenity Category

Classification of residential receivers in the surrounding area have been determined by review of the measured RBLs and a tally of the features for each category described in Table 2.3 of the NPI. The overall tally of features and resulting classifications are provided in **Table 10**. The detailed assessment of receiver categories is provided in **Appendix D**. This classification is used in conjunction with the intrusiveness criteria to determine the limiting criteria.

**Table 10 Determination of NPI Residential Receiver Category**

Receiver/Location/Catchment	Rural	Suburban	Urban
L1	0	0	6

Observations at locations in the surrounding locality support the assessment of the receiver as an urban residential category.



### 5.1.3 Amenity Noise Levels and Project Amenity Noise Levels

The PANL for residential receivers and other receiver types (ie non-residential) potentially affected by the project are presented in **Table 11**.

**Table 11 Amenity Noise Levels and Project Amenity Noise Levels**

Receiver Type	Noise Amenity Area	Assessment Period <sup>1</sup>	NPI		PANL dB LAeq(15min) <sup>4</sup>
			Recommended	ANL	
			ANL dB LAeq(period)	dB LAeq(period)	
Residential	Urban	Day	60	55 <sup>2</sup>	58
		Evening	50	48 <sup>3</sup>	51
		Night	45	46 <sup>3</sup>	49
Commercial	All	When in use	65	60	63

Note 1: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Note 2: Project Amenity Noise Level equals the Amenity Noise Level -5dB as there is other industry in the area.

Note 3: LAeq, period (traffic) as per section 2.4.1 of the NPI (i.e. existing LAeq Traffic -15dB).

Note 4: Includes a +3dB adjustment to the amenity period level to convert to a 15-minute assessment period as per Section 2.2 of the NPI.

### 5.1.4 Project Noise Trigger Levels

The PNTL are the lower of either the PINL or the PANL. **Table 12** presents the derivation of the PNTLs in accordance with the methodologies outlined in the NPI.

**Table 12 Project Noise Trigger Levels**

Receiver Type	Noise Amenity Area	Assessment Period <sup>1</sup>	PINL	PANL	PNTL
			dB LAeq(15min)	dB LAeq(15min)	dB LAeq(15min)
Residential	Urban	Day	61	58	58
		Evening	55	51	51
		Night	45	49	45
Commercial	All	When in Use	N/A	63	63

Note 1: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.



### 5.1.5 Maximum Noise Trigger Levels

The maximum noise trigger levels shown in **Table 13** are based on night time RBLs and trigger levels as per Section 2.5 of the NPI. The trigger levels will be applied to transient noise events that have the potential to cause sleep disturbance.

Table 13 Maximum Noise Trigger Levels			
NPI Residential Receivers (Night)			
LAeq(15min)		LAmax	
40dB LAeq(15min) or RBL + 5dB		52dB LAmax or RBL + 15dB	
Trigger	40	Trigger	52
RBL +5dB	45	RBL +15dB	55
<b>Highest</b>	<b>45</b>	<b>Highest</b>	<b>55</b>
RNP Residential Receivers (Nigh)			
LAeq(15min)		LAmax	
N/A		65	

Note 1: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Note: NPI identifies that maximum of the two values is to be adopted which is shown in bold font.

### 5.2 Construction Noise Management Levels

The relevant Noise Management Levels (NMLs) for standard construction hours are presented in **Table 14**.

Table 14 Construction Noise Management Levels			
Catchment (No)	Assessment Period <sup>1</sup>	Adopted RBL	NML
Receiver ID		dB LA90	dB LAeq(15min)
Residential	Standard Hours	56	66 (RBL+10dBA)
Commercial Premises	When in use	N/A	70 (external)

Note 1: Refer to Table 4 for Standard Recommended Hours for Construction.

Note 2: External level based on 10dB with windows open for adequate ventilation (ICNG).



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## 6 Modelling Methodology

A computer model was developed to quantify project noise emissions to neighbouring receivers using DGMR (iNoise, Version 2024.2) noise modelling software. iNoise is an intuitive and quality assured software for industrial noise calculations in the environment. 3D noise modelling is considered industry best practice for assessing noise emissions from projects.

The model incorporated a three-dimensional digital terrain map giving all relevant topographic information used in the modelling process. Additionally, the model uses relevant noise source data, ground type, attenuation from barrier or buildings and atmospheric information to predict noise levels at the nearest potentially affected receivers. Where relevant, modifying factors in accordance with Fact Sheet C of the NPI have been applied to calculations.

The model calculation method used to predict noise levels was in accordance with ISO 9613:1 and ISO 9613:2 including corrections for meteorological conditions using CONCAWE<sup>1</sup>. The ISO 9613 standards are the most used noise prediction method worldwide. Many countries refer to ISO 9613 in their noise legislation. However, the ISO 9613 standard does not contain guidelines for quality assured software implementation, which leads to differences between applications in calculated results. In 2015 this changed with the release of ISO/TR 17534-3. This quality standard gives clear recommendations for interpreting the ISO 9613 method. iNoise fully supports these recommendations. The models and results for the 19 test cases are included in the software.

### 6.1 Mitigation Included in Design and Noise Control Recommendations

The noise model incorporated the following recommendations and noise controls:

- the project is constructed as per the site design and plans (as presented in **Appendix B**) which includes the barrier attenuation provided by the project buildings orientation;
- the mechanical AC plant is located on the plant deck of the operation which is surrounded by the roof parapet and extends a minimum of 100mm above level of the highest item of plant; and
- it is assumed there is a 50% reduction in onsite cars during the night period.

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<sup>1</sup> Report no. 4/18, "the propagation of noise from petroleum and petrochemical complexes to neighbouring communities", Prepared by C.J. Manning, M.Sc., M.I.O.A. Acoustic Technology Limited (Ref.AT 931), CONCAWE, Den Haag May 1981



## 6.2 Sound Power Levels

**Table 15** presents the sound power level for each noise source modelled in this assessment. It is noted that sound power levels were sourced from manufacturer's specifications or from in-field measurements at similar project sites.

<b>Table 15 Acoustically Significant Sources – Sound Power Levels dBA (re 10<sup>12</sup> Watts)</b>			
Item and quantity (per 15 minutes)	Sound Power Level dB LAeq	Total Sound Power Level dB LAeq(15min)	Source Height <sup>1</sup>
<b>Operation</b>			
MCD Fan 01 GUEEC28V (x1)	72	72	0.3m
MCD Fan 02 CDG354 (x1)	73	73	0.8m
MCD Fan 03 CDG354 (x1)	73	73	0.8m
MCD Fan 04 CDG404 (x1)	77	77	0.8m
MCD Fan 05 CEEC25D (x1)	66	66	0.2m
MCD Fan 06 CE356 (x1)	63	63	0.4m
MCD Fan 07 PUE354ER (x1)	64	64	0.3m
MCD Fan 08 AP0716BP7 (x1)	77	77	0.4m
MCD AC Plant PKY700T (x2)	81	84	1.6m
Cold Room Condenser (x1)	75	75	0.5m
Customer Ordering Displays (x2)	75	78	1.0m
Truck Deliveries (x1)	92	92	1.0m
Waste Collection (x1)	86	86	2.5m
Car idle, start up and drive off (x15) <sup>2</sup>	81	85	0.5m
Customers vehicles travelling through Car Park (15 cars per 15min) <sup>2</sup>	81	85	0.5m
Customers vehicles travelling through Drive-Thru (15 cars per 15min) <sup>2</sup>	81	85	0.5m
<b>Sleep disturbance assessment (LA<sub>max</sub>), Night-time periods (10pm to 7am)</b>			
Patron Yelling		92	1.0m
Car Door Slam		87	1.0m
Waste Collection Impact		102	2.5m
<b>Construction Fleet</b>			
Combined Construction Fleet		108	1.5m

Note 1: Height above the relative ground or building below source.

Note 2: Includes a duration adjustment assuming vehicles operate for three (3) minutes continuously within a period of 15-minutes.



## 7 Noise Assessment Results

### 7.1 Operational Noise Assessment

Noise predictions from all operation noise sources have been quantified at surrounding receivers. The coincidence of all plant occurring onsite simultaneously for an entire 15-minute period is unlikely. However, it is probable that several plant may operate simultaneously on occasion for a limited duration. To account for this, modelling has adopted the LAeq(15min) contribution of sources which were derived from manufacturer's specifications or from in-field measurements of operation sources or activities.

Results of the noise modelling predictions are presented in **Table 16** for operations without deliveries or waste collection during all periods.

**Table 16 Operational Noise Predictions without Deliveries or Waste Collection – All Receivers**

Residential Receivers							
Receiver No	Predicted Noise Level			PNTL			Compliant
	dB LAeq(15min)			dB LAeq(15min)			
	Day	Evening	Night	Day	Evening	Night	
R01	42	42	42	58	51	45	✓
R02	43	43	42	58	51	45	✓
R03	42	42	41	58	51	45	✓
R04	38	38	37	58	51	45	✓
Other Receivers							
Receiver No	Period	Predicted Noise Level		PNTL		Compliant	
		dB LAeq(15min)		dB LAeq(15min)			
C01	When in use	41		63		✓	
C02	When in use	40		63		✓	
C03	When in use	38		63		✓	
C04	When in use	45		63		✓	
C05	When in use	52		63		✓	
C06	When in use	42		63		✓	
C07	When in use	46		63		✓	

Note 1: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.



Deliveries are expected to be undertaken once per day during the day and evening periods by a heavy vehicle. These operations usually take less than a few minutes, although present a conservative assessment, it has been assumed that it would take up to one hour. Fact Sheet C of the NPI allows for exceedance of the PNTL or adjustment of the PNTL for short term single events that may occur in any 24-hour period. Table C3 of the NPI allows an adjustment to the PNTL of +5dB for the daytime and evening periods, when the event is expected to occur. Results of the noise modelling predictions are presented in **Table 17** for operations with consumable good deliveries during the daytime and evening periods.

**Table 17 Operational Noise Predictions with Consumable Goods Deliveries – All Receivers**

Residential Receivers					
Receiver No	Predicted Noise Level		PNTL		Compliant
	dB LAeq(15min)		dB LAeq(15min)		
	Day	Evening	Day	Evening	
R01	49	49	63	56	✓
R02	46	46	63	56	✓
R03	42	42	63	56	✓
R04	39	39	63	56	✓
Other Receivers					
Receiver No	Period	Predicted Noise Level	PNTL	Compliant	
		dB LAeq(15min)	dB LAeq(15min)		
C01	When in use	50	68	✓	
C02	When in use	41	68	✓	
C03	When in use	39	68	✓	
C04	When in use	46	68	✓	
C05	When in use	55	68	✓	
C06	When in use	47	68	✓	
C07	When in use	56	68	✓	

Note 1: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.



Waste collections are expected to be undertaken once per day during the day, evening and morning shoulder periods. Waste collection usually takes several minutes, although present a conservative assessment, it has been assumed that it would take up to 15 minutes to complete. Fact Sheet C of the NPI allows for exceedance of the PNTL or adjustment of the PNTL for short term single events that may occur in any 24-hour period. Table C3 of the NPI allows an adjustment to the PNTL of +7dB for the daytime and evening periods and +2dB during the night period, when the event is expected to occur. Results of the noise modelling predictions are presented in **Table 18** for operations with waste collection during the daytime, evening or night periods.

**Table 18 Operational Noise Predictions with Waste Collection – All Receivers**

Residential Receivers							
Receiver No	Predicted Noise Level			PNTL			Compliant
	dB LAeq(15min)			dB LAeq(15min)			
	Day	Evening	Night	Day	Evening	Night	
R01	45	45	44	65	58	47	✓
R02	44	44	43	65	58	47	✓
R03	42	42	41	65	58	47	✓
R04	38	38	38	65	58	47	✓
Other Receivers							
Receiver No	Period	Predicted Noise Level		PNTL		Compliant	
		dB LAeq(15min)		dB LAeq(15min)			
C01	When in use	45		70		✓	
C02	When in use	41		70		✓	
C03	When in use	38		70		✓	
C04	When in use	46		70		✓	
C05	When in use	53		70		✓	
C06	When in use	45		70		✓	
C07	When in use	50		70		✓	

Note 1: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.



## 7.2 Maximum Noise Level Assessment

In assessing maximum noise events, typical L<sub>Amax</sub> noise levels from transient events were assessed at the nearest residential receivers. For the sleep disturbance assessment, a Sound Power Level of 87dBA for a car door slam, 92dBA for a customer yelling and 104dBA for a waste impact were adopted for maximum noise level (L<sub>Amax</sub>) events during the night period. Predicted noise levels from L<sub>Amax</sub> events for assessed receivers are presented in **Table 19**.

**Table 19 Maximum Noise Level Assessment (Night)<sup>1</sup>**

Rec	Predicted Noise Level			Trigger Level	
	dB L <sub>Amax</sub>			NPI MNTL	RNP Trigger Level
	Waste Impact	COD Yell	Door Slam in Waiting Bay	dB L <sub>Amax</sub>	dB L <sub>Amax</sub>
<b>Residential Receivers</b>					
R01	61	47	40	55	65
R02	61	47	42	55	65
R03	48	46	44	55	65
R04	40	37	41	55	65

Note 1: Monday to Saturday; Night 10pm to 7am. On Sundays and Public Holidays Night 10pm to 8am.

The predicted maximum levels results show compliance with the maximum noise trigger levels for door slams in the waiting bay and yelling near the COD.

Maximum noise emissions levels from waste collection have the potential to be above the Maximum Noise Trigger Levels at several assessed receivers. Accordingly, in accordance with Section 2.5 of the NPI, a detailed sleep disturbance assessment has been undertaken.



### 7.2.1 Detailed Maximum Level Assessment

Section 5.2 of the NPI outlines the other factors that may be important in assessing the extent of impacts on sleep. These other factors include:

- how often high noise events will occur;
- the distribution of likely events across the night-time period and the existing ambient maximum events in the absence of the subject development;
- whether there are times of day when there is a clear change in the noise environment (such as during early-morning shoulder periods); and
- current scientific literature available at the time of the assessment regarding the impact of maximum noise level events at night.

Reviewing the proposed waste collection for the project site, they will occur once in a 24 hour period and are proposed to be undertaken during either the day, evening or night assessment periods. Therefore, the maximum occurrence of high noise events from either event is once per 24 hours, with the majority of collections to be undertaken during the day or evening periods, resulting in no sleep disturbance events at all.

Additionally, the NPI outlines that additional guidance on maximum noise level assessments may be sourced from the EPA NSW Road Noise Policy (RNP). Section 5.4 of the RNP outlines that a maximum internal noise level of 50-55dBA is unlikely to awaken people from sleep. Taking into account a 10dB loss for a partially open window, an external level of 65dBA is unlikely to awaken internal occupants.

It is noted that no receiver is predicted to experience noise levels above 65dBA L<sub>Amax</sub> sleep disturbance criteria from waste collection.

Accordingly, due to the low occurrence of these events occurring during the night period which are not predicted to be above the maximum level of 65dBA, the potential for sleep disturbance is considered negligible.



### 7.3 Construction Noise Assessment

**Table 20** presents the results of modelled construction noise emissions taking into account the additional 10dB attenuation provided by standard mitigation measures. Predictions identify that emissions from construction would remain below the Construction NMLs at all the assessed receivers with the inclusion of standard mitigation measures.

**Table 20 Construction Noise Levels – All Receivers**

Receiver	Period <sup>1</sup>	Predicted Noise Level dB LAeq(15min)	Management Level dB LAeq(15min)	Compliant
R01	Day	53	66	✓
R02	Day	54	66	✓
R03	Day	54	66	✓
R04	Day	50	66	✓
C01	Day	51	70	✓
C02	Day	53	70	✓
C03	Day	50	70	✓
C04	Day	56	70	✓
C05	Day	59	70	✓
C06	Day	53	70	✓
C07	Day	55	70	✓

Note 1: Refer to Table 4 for Standard Recommended Hours for Construction.



## 8 Discussion and Conclusion

Muller Acoustic Consulting Pty Ltd (MAC) has completed a Noise Assessment to quantify emissions from proposed McDonald's Operation (the operation) to be located at 37 Roseberry Street, Balgowlah, NSW.

The assessment has quantified potential operation emissions pertaining to customer generated noise, including light vehicles, truck deliveries and mechanical plant. The results of the Noise Assessment demonstrate that noise emissions from the operation would satisfy the relevant PNTLs at all assessed receivers for all assessment periods once noise controls for the operation are implemented (see **Section 6.1**):

- the project is constructed as per the site design and plans (as presented in **Appendix B**) which includes the barrier attenuation provided by the project buildings orientation;
- the mechanical AC plant is located on the plant deck of the operation which is surrounded by the roof parapet and extends a minimum of 100mm above level of the highest item of plant; and
- it is assumed there is a 50% reduction in onsite cars during the night period.

Furthermore, sleep disturbance is not anticipated, as emissions from maximum noise events (ie door slams and patrons shouting) are predicted to satisfy the NPIs maximum noise trigger levels for the night period.

Assessment of maximum noise level events associated with transient event noise emissions from waste collection may have the potential to be above the maximum noise trigger levels. However, a detailed maximum noise level assessment demonstrated that due to the low occurrence of these events occurring during the night period which are not predicted to be above the maximum level of 65dBA, the potential for sleep disturbance is considered negligible.

Modelled noise emissions from construction activities identify that predicted noise emissions may be above the applicable construction management levels at several assessed receivers. Accordingly, noise management measures are provided in this report to reduce potential impacts on surrounding receivers.

In summary, the Noise Assessment supports the Development Application for the operation incorporating the recommendations and controls outlined in this report.



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# Appendix A – Glossary of Terms



A number of technical terms have been used in this report and are explained in **Table A1**.

Table A1 Glossary of Acoustical Terms	
Term	Description
1/3 Octave	Single octave bands divided into three parts
Octave	A division of the frequency range into bands, the upper frequency limit of each band being twice the lower frequency limit.
ABL	Assessment Background Level (ABL) is defined in the NPI as a single figure background level for each assessment period (day, evening and night). It is the tenth percentile of the measured L90 statistical noise levels.
Ambient Noise	The total noise associated with a given environment. Typically, a composite of sounds from all sources located both near and far where no particular sound is dominant.
A Weighting	A standard weighting of the audible frequencies designed to reflect the response of the human ear to sound.
Background Noise	The underlying level of noise present in the ambient noise, excluding the noise source under investigation, when extraneous noise is removed. This is usually represented by the LA90 descriptor
dBA	Noise is measured in units called decibels (dB). There are several scales for describing noise, the most common being the 'A-weighted' scale. This attempts to closely approximate the frequency response of the human ear.
dB(Z), dB(L)	Decibels Z-weighted or decibels Linear (unweighted).
Extraneous Noise	Sound resulting from activities that are not typical of the area.
Hertz (Hz)	The measure of frequency of sound wave oscillations per second – 1 oscillation per second equals 1 hertz.
LA10	A sound level which is exceeded 10% of the time.
LA90	Commonly referred to as the background noise, this is the level exceeded 90% of the time.
LAeq	Represents the average noise energy or equivalent sound pressure level over a given period.
LAmx	The maximum sound pressure level received at the microphone during a measuring interval.
Masking	The phenomenon of one sound interfering with the perception of another sound. For example, the interference of traffic noise with use of a public telephone on a busy street.
RBL	The Rating Background Level (RBL) as defined in the NPI, is an overall single figure representing the background level for each assessment period over the whole monitoring period. The RBL, as defined is the median of ABL values over the whole monitoring period.
Sound Power Level (Lw or SWL)	This is a measure of the total power radiated by a source in the form of sound and is given by $10 \cdot \log_{10} (W/W_0)$ . Where W is the sound power in watts to the reference level of $10^{-12}$ watts.
Sound pressure level (Lp or SPL)	the level of sound pressure; as measured at a distance by a standard sound level meter. This differs from Lw in that it is the sound level at a receiver position as opposed to the sound 'intensity' of the source.

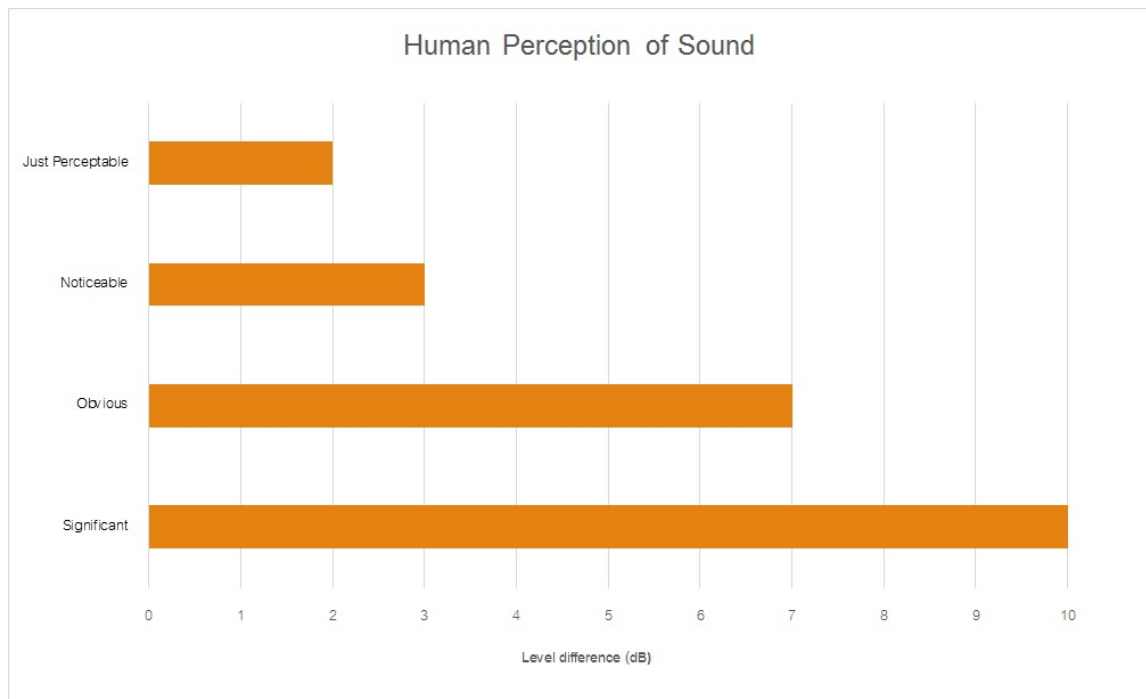


Table A2 provides a list of common noise sources and their typical sound level.

**Table A2 Common Noise Sources and Their Typical Sound Pressure Levels (SPL), dBA**

Source	Typical Sound Pressure Level
Threshold of pain	140
Jet engine	130
Hydraulic hammer	120
Chainsaw	110
Industrial workshop	100
Lawnmower (operator position)	90
Heavy traffic (footpath)	80
Elevated speech	70
Typical conversation	60
Ambient suburban environment	40
Ambient rural environment	30
Bedroom (night with windows closed)	20
Threshold of hearing	0

**Figure A1 – Human Perception of Sound**





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## Appendix B – Site Plans



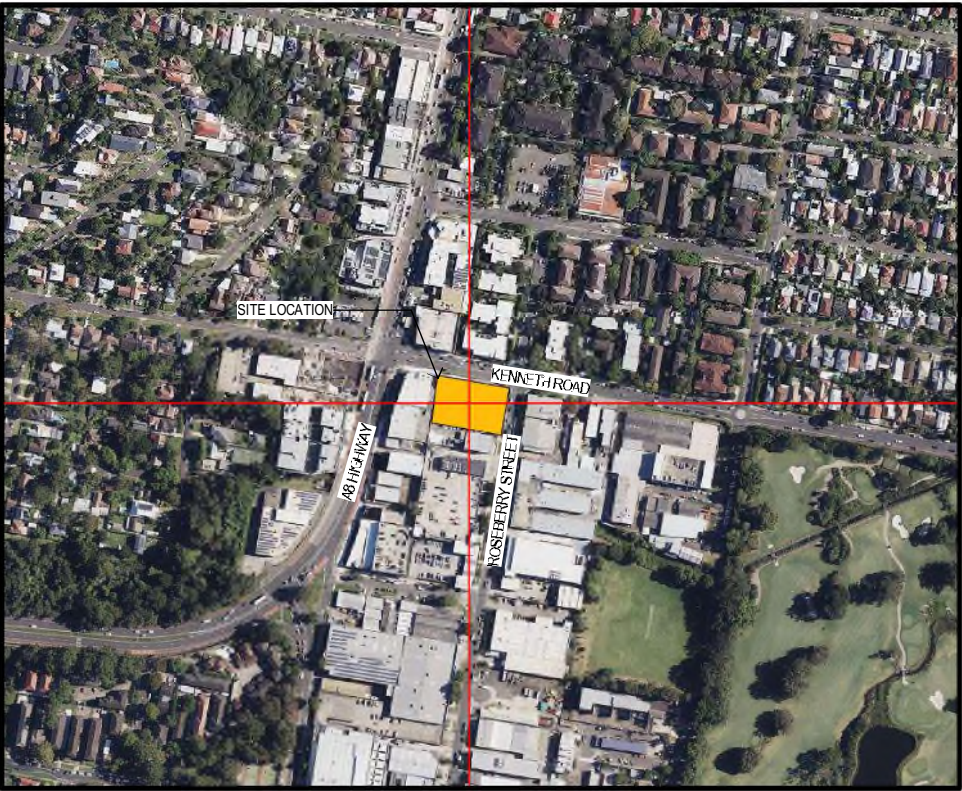
# PROPOSED McDONALD'S OPERATIONS AT:

37 ROSEBERRY STREET BALGOWLAH 2093

## STAGE: DA SET

### ARCHITECTURAL DRAWINGS,

DA000	COVER SHEET
DA001	MASTER LEGENDS
DA002	SITE ANALYSIS - MACRO
DA003	SITE ANALYSIS DIAGRAMS
DA004	SITE PLAN - DEMOLISHED
DA005	SITE PLAN - PROPOSED
DA007	LANDSCAPING PLAN
DA008	SHADOW DIAGRAM - 9AM
DA009	SHADOW DIAGRAMS - NOON
DA010	SHADOW DIAGRAM - 3PM
DA011	SITE SIGNAGE PLAN
DA012	SIGNAGE DETAILS
DA013	SIGNAGE DETAILS
DA014	SIGNAGE DETAILS
DA015	COD UNIT SCOPE OF WORKS
DA016	COD UNIT DETAILS
DA101	FLOORPLAN
DA102	ROOF PLAN
DA200	EXTERNAL FINISHES SCHEDULE
DA201	ELEVATION - STREETSCAPE
DA202	EAST ELEVATION
DA203	WEST ELEVATION
DA204	SOUTH ELEVATION
DA205	NORTH ELEVATION
DA300	BUILDING SECTIONS X1, X2
DA1001	3D VIEW



LOCATION: 37 ROSEBERRY STREET BALGOWLAH 2093



NOT TO SCALE

## McDONALDS BALGOWLAH - BIOMOD 380 DA ISSUE - DECEMBER 2024

Revisions	General Notes	Drawing Notes
C FOR DA B FOR REVIEW A PRE DA	12/12/24 KD AS 02/12/24 KB AS 18/11/24 KB AS	Do not scale this drawing. The drawing shows design intent only. All dimensions to be checked on site prior to construction or production. Construction details to be confirmed by contractor manual labour. This is a computer generated drawing. Do not amend by hand. Figure dimensions are to be used. Contact architect for clarification if dimensions are not clear. All dimensions are in millimeters. All discrepancies and omissions on site must be reported to the architect for their comments or approval prior to commencing work.
Issue Description	Date Chk	Work

Client  
  
McDonald's Australia Limited  
ARN 43 018 4541526  
107 9675 6999  
fcbagroup-aus@au.mcd.com

Project Manager  


webber

Phone 02 4936 1078  
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1138 Willoughby Road Crows Nest NSW 2059  
sydney@webberarchitects.com  
Sydney Office: Level 1, 426 Hunter Street Newcastle NSW 2300  
4936 1078

Project  
McDonald's Balgowlah  
Location  
37 ROSEBERRY STREET BALGOWLAH 2093

### FOR DA APPROVAL NOT TO BE USED DURING CONSTRUCTION

Scale As indicated @ A3	Series BIOMOD 380
Drawing COVER SHEET	Project Number 2996
Project Number 2996	Drawing Number DA000
Issue C	



STANDARD ABBREVIATIONS

ARS	AUTOMATED REFRIGERATION SYSTEM	H	HFI/UM OUTLET	UIC	UNIVERSAL CHASE
AP	APRON FLASHING	HR	HAND RASIN	W	WINDOW
AP	ACCESS PANTRY	HC	HOSSE/COCK	WC	WATER CLOSET (TOILET SUITE)
APH	APPROXIMATE WARMER	HD	HAND DRYER	UFC	UPRIGHT CONDENSER
APS	AS PER SPECIFICATION	HF	HFI/UM TANK	UFRZ	UPRIGHT FREEZER
R	ROILARD	HT T	HEAT TREAT	UHC	UNIVERSAL HOLDING CABINET
BR	BUMP BAR	IC	ISOLATOR CHASE	UR	URINAL
RC	BRUSH CABINET	ICF-B570	ICE STORAGE BIN	VM	VIDEOMONITOR
RCP	RANGE CAPING	ICF-B50	ICE MACHINING	VWU	VERTICAL WALL JOINER
RCT	RABY CHANGE TABLE	IP	INSULATED PANTRY	WCA	WALL CAVITY
RD	RUNNY CLOCK	IT#	ITONA COMPUTER	WM	WASHING MACHINE
BG#	BOX GUTTER SIZE (W X H)	IAM	IMMINATE	WMS	WALL METAL STUD
BGS	BOX GUTTER SLIMP	IP	IMPERI PRINTER		
RH	BRUSH HOODER	MC	MACHINICAL CHASE		
RHM	BRUSHED ICE MACHINE	MCF	MISLE/RY/RY FINDER		
RJ	BUTT JOINT IN GLAZING	MI	MIRROR		
RK	BUCKWORK	MF	MEAT FREEZER		
RO	BAKERY OVEN	MFC	METAL FLASHING/CAPPING		
RLNS	BURN TROUBLE	MEY	MADE FOR YOU LINE		
RSC	RACK UP STORAGE CABINET	MO	MOVEMENT JOINT		
CD	CASH DRAWER	MS	MICROWAVE OVEN		
CCTV	CLOSED CIRCUIT TV MONITOR OR CAMERA	MT	MUFFIN TOASTER TROUBLE		
CG	COFFEE GRINDER	MWC	METAL WALL CAPPING		
CH	COAT HOOK	NOM	NOMINAL		
CHD 2	CLIP HOODER DISPENSER - 2 CLIP	OAT	OAT TABLE		
CHD 4	CLIP HOODER DISPENSER - 4 CLIP	OF	OVERFLASHING		
CHG	CHANNEL GUARD	OPF	OVERFLOW PIPE		
CF	CENTREFISI AND FRIDGE	OF#	OVERFLOW SPITTER SIZE (W X H)		
CIAM (C)	CIAMSHFI/GRILL	OHF	OVERHEAD FREEZER		
CM 1	COFFEE MACHINE	OR	OVEN COOLING RACK		
CM 2	McCAFF COFFEE MACHINE	P	PALETTE RACK		
CMP	COMPUTER	PC	PRESENTATION CART		
CO2	CARRON DIOXIDE TANK	PCS #	PEST CONTROL SYSTEM		
COND	McCAFF CONDIMENT TRAY	PFC	POWER FACTOR CORRECTION SYSTEM		
COS	CHECK/CONFIRM ON SITE	PH	PHONE		
CP	PREFINISHED METAL CAPPING	PH	PIPE HOODER		
CR	CRASH RAIL	PFF	PREPARED TABLE		
CRG	CORNER GUARD	PRFP	PASS THROUGH SHELF		
CT	CERAMIC TILE	PS SHI	PAINT FINISH		
CTW	CONTACT TOASTER	PT	CASH REGISTER		
CTR	COFFEE AND TEA BREWER	R	REFRIGERATION CONTRACTORS DOCUMENTS		
D	DOOR	RA	REFLECTOR AIR DIFFUSER		
DOD	DECTOR CONSULTANTS DOCUMENTS	RCD	REFLECTOR AIR DIFFUSER		
DDG	DETERGENT DISPENSER SYSTEM	REF	REFLECTOR		
DE 12	DISPLAY FRIDGE - 1200MM - ANGLE BACK	RWT	RAIN WATER TANK		
DN#	DOWNPIPE SIZE	SA	SUPPLY AIR DIFFUSER		
DP+S#	DOWNPIPE & SPREADER SIZE	SAFF	SAFF		
DTP #	DISPENSER PAPER TOWEL TYPE #	SRD	SWITCHBOARD		
DTT	DRAWER/TIMER BASE STATION	SC	SCANNER		
DW	DISHWASHER	SD	SOAP DISPENSER		
F	EMERGENCY LIGHT FITTING	SE	SEAKER FLASHING		
FG	FAN/SLUTTER	SHI	SHELVING		
FMC	ELECTRICAL METERING CURBIC	SHI BOX	SHELVING BOX HOODER		
FX	FANALIST GRIFF	SHR	SHOWER		
FAC	FIRST AID CABINET	SHS	SQUARE HOLLOW SECTION		
FR	FIRE BLANKET	SK 1	SINK TYPE 1		
FRS	FRY RAGGING STATION	SK 2	SINK TYPE 2		
FC	FIRE EXTINGUISHER	SK 3	SINK TYPE 3		
FD	FRY DISPENSER	SK 4	SINK TYPE 4		
FF 1	CO2 FIRE EXTINGUISHER	SK 5	SINK TYPE 5 - ROOF		
FF 2	WFT CHEMICAL FIRE EXTINGUISHER	STN	RECONSTRUCTED STONE		
FG	FIXED GLAZING	TCSI	TACTILE GROUND SURFACE INDICATOR		
FHR	FIRE HOSE REEL	TP 1	TAPWARE TYPE 1 ACC		
FIF FTM 4	FIFENNY PENNY PIF/IF/FT/CHICKEN STATION	TP 2	TAPWARE TYPE 2		
FI H	FRY HOODER	TPD	TOILET PAPER DISPENSER - TORK TWIN MINI JLMRC		
FR	FRIDGE	TR	TOILET RECESS		
FSR	FROZEN SPARKING REFRIGERATION DISPENSER				
FLR	FLOORING				
FW	FLOOR WASTE				
GRD	GARBAGE BAG DISPENSER				
GT	GIVE DISPENSER				
GR	GARAGE				

STANDARD SYMBOLS AND TAGS

	DATUM POINT
	SET OUT POINT
	DOOR TAG DOOR No WITHIN ROOM ROOM NUMBER
	WINDOW TAG WINDOW No WITHIN ROOM ROOM NUMBER
	WALL TAG WALL TYPE No
	CEILING TAG CEILING TYPE HEIGHT TO UNDERSIDE ABOVE FFL
	MATERIAL / FINISHES TAG MATERIAL ABBREVIATION MATERIAL TYPE CODE
	SIGNAGE TAG SIGNAGE CODE

DOOR CIRCULATION SPACE INDICATED THUS.  
ARROW INDICATES DIRECTION OF APPROACH

Revision	Description	Date	By	Work
C	FOR QA	12/12/24	AB	
B	FOR REVIEW	02/12/24	AB	
A	PRELIM	18/11/24	AB	

General Notes
Do not scale this drawing. The drawing shows design intent only. All dimensions to be checked on site prior to construction or production. Construction details to be confirmed by contractor/municipal authority. This is a computer generated drawing. Do not amend by hand. Figure dimensions are to be used. Contact architect for clarification of dimensions are not clear. All dimensions are in millimeters. All dimensions and omissions on site must be reported to the architect for their comments or approval prior to commencing work.

Drawing Notes

North



McDonald's Australia Limited  
ARN: 43 018 454 626  
100 000 000 000  
100 000 000 000  
100 000 000 000



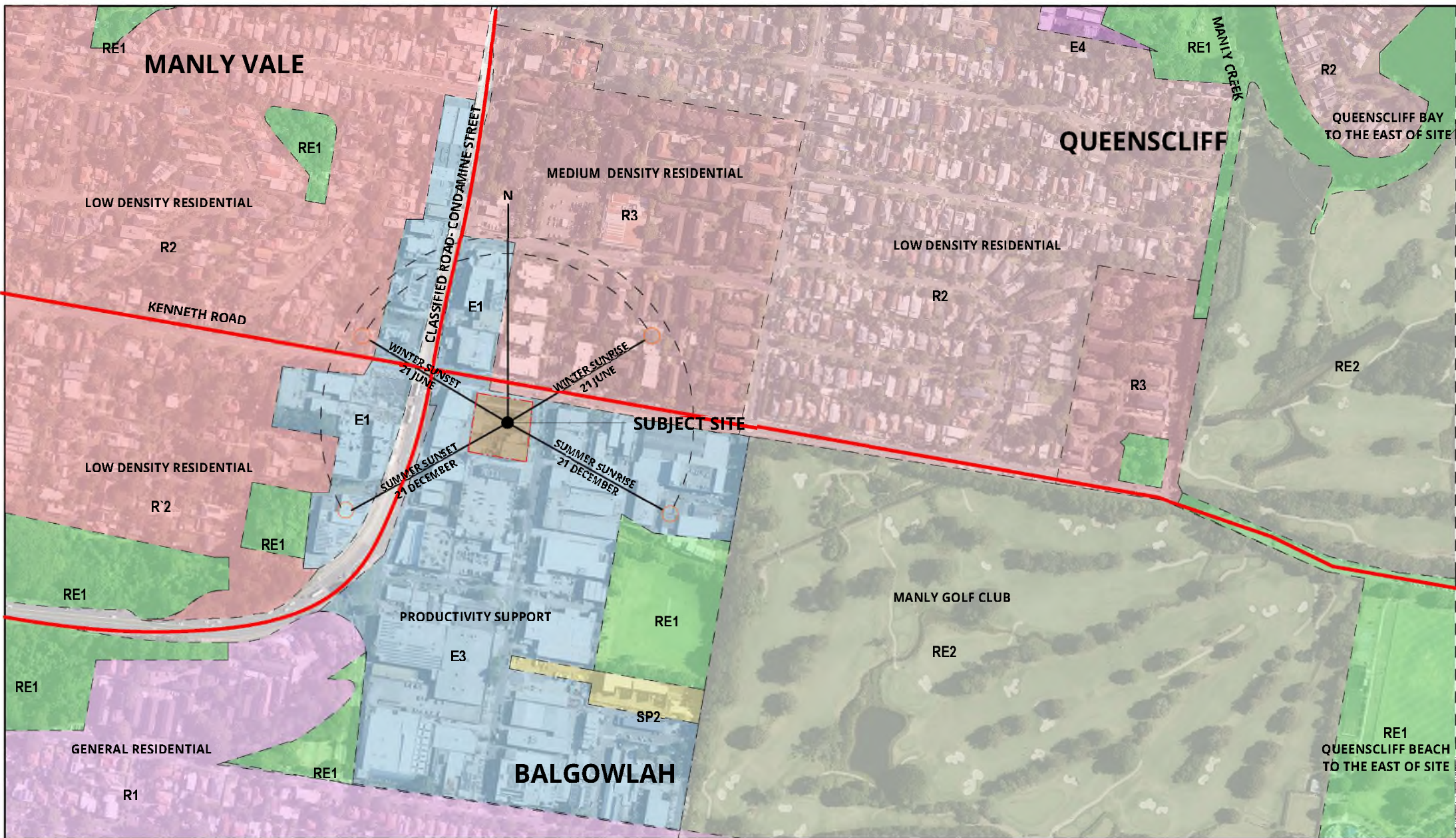
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Project  
Modonal's Balgowah  
Location  
37 ROSEBERRY STREET BALGOWAH NSW

FOR DA APPROVAL		
NOT TO BE USED DURING CONSTRUCTION		
Scale	Series	
1:100 @ A3	RIOMON 390	
Drawing	MASTER / FGFND	
Project Number	Drawing Number	Issue
2996	DA001	C





SITE PLAN OVERVIEW

R1 R2 R3 RE1 RE2 E1 E3 E4 SP2

NOT TO SCALE

Revisions

Issue	Description	Date	Chk	Int
1	FOR DA	12.12.24	MD	AB
2	FOR REVIEW	02.12.24	MD	AB
3	PRE DA	10.11.24	MD	AB

General Notes

Do not scale this drawing. The drawing shows design intent only. All dimensions to be checked on site prior to construction or production. Construction details to be confirmed by contractor and/or engineer. This is a computer generated drawing. Do not amend by hand. Figure dimensions are to be used. Contact architect for clarification if dimensions are not clear. All dimensions are in millimetres. All discrepancies and omissions on site must be reported to the architect for their comments or approval prior to commencing work.

Drawing Notes

North



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Newcastle (02) 4936 1078

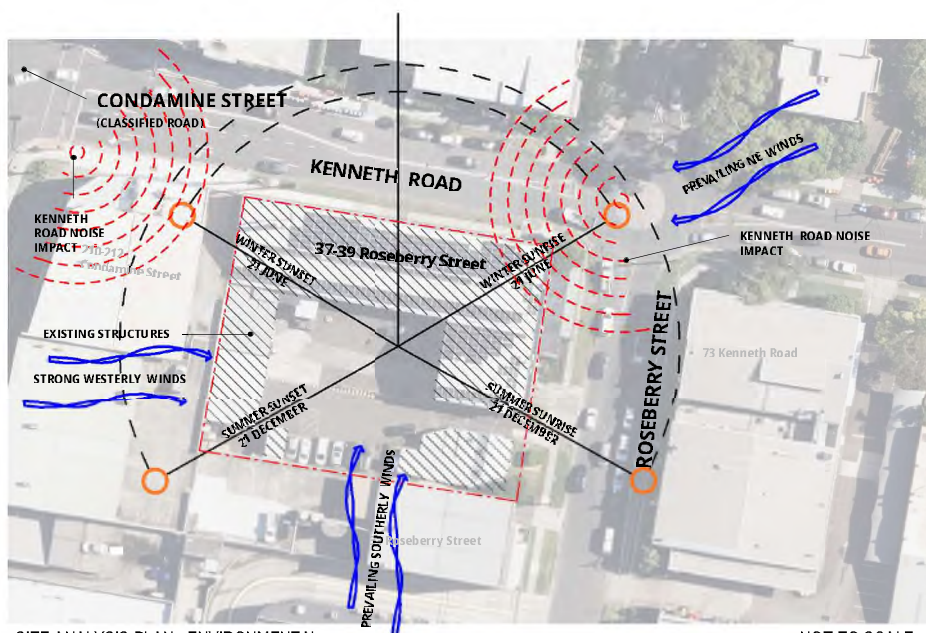
Project  
McDonald's Balgowlah  
Location  
37 ROSEBERRY STREET BALGOWLAH NSW 2093

FOR DA APPROVAL  
NOT TO BE USED FOR BUILDING CONSTRUCTION

Scale	Series	
NTS	R/C/M/C/D 390	
Drawing		
SITE ANALYSIS - MACRO		
Project Number	Drawing Number	Issue
2996	DA002	C

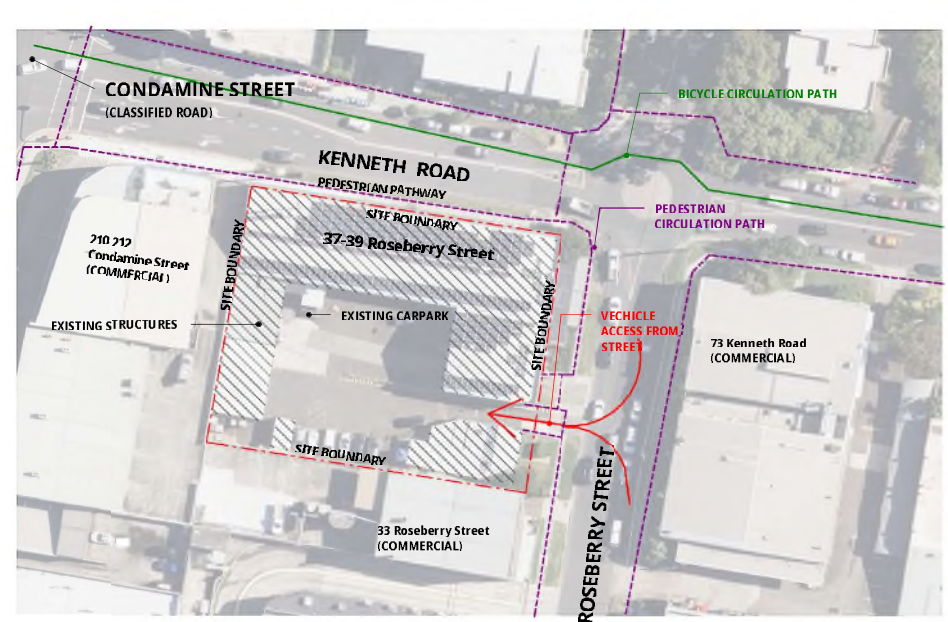
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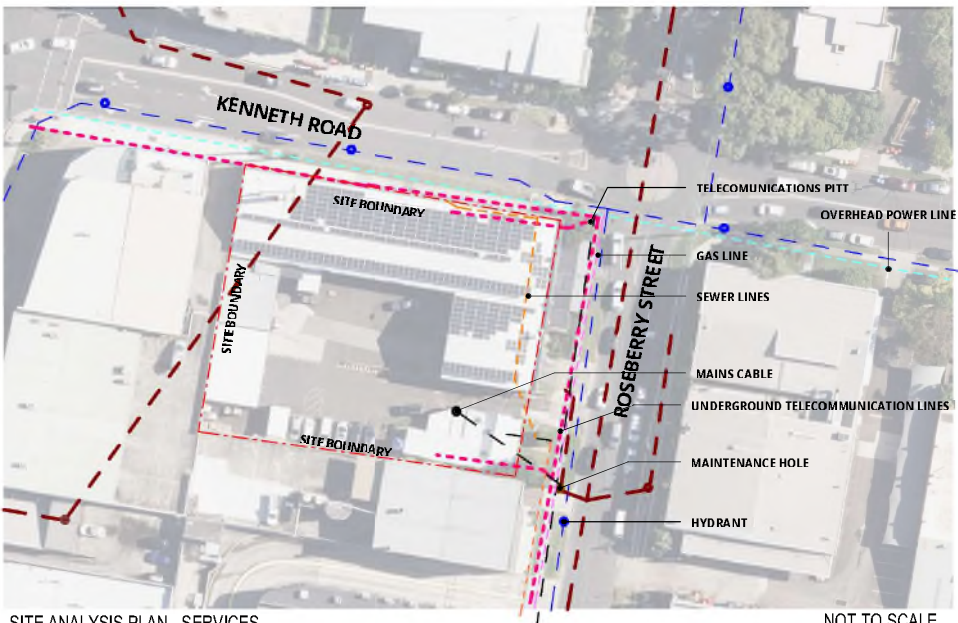
SITE ANALYSIS PLAN - ENVIRONMENTAL

NOT TO SCALE



SITE ANALYSIS PLAN - ENVIRONMENTAL - SITE CIRCULATION

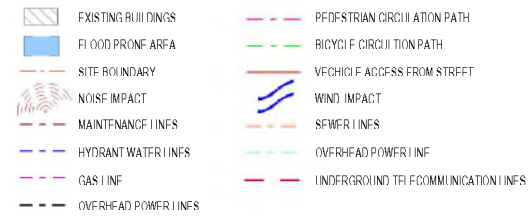
NOT TO SCALE



SITE ANALYSIS PLAN - SERVICES

NOT TO SCALE

### SITE ANALYSIS LEGEND



### OPPORTUNITIES

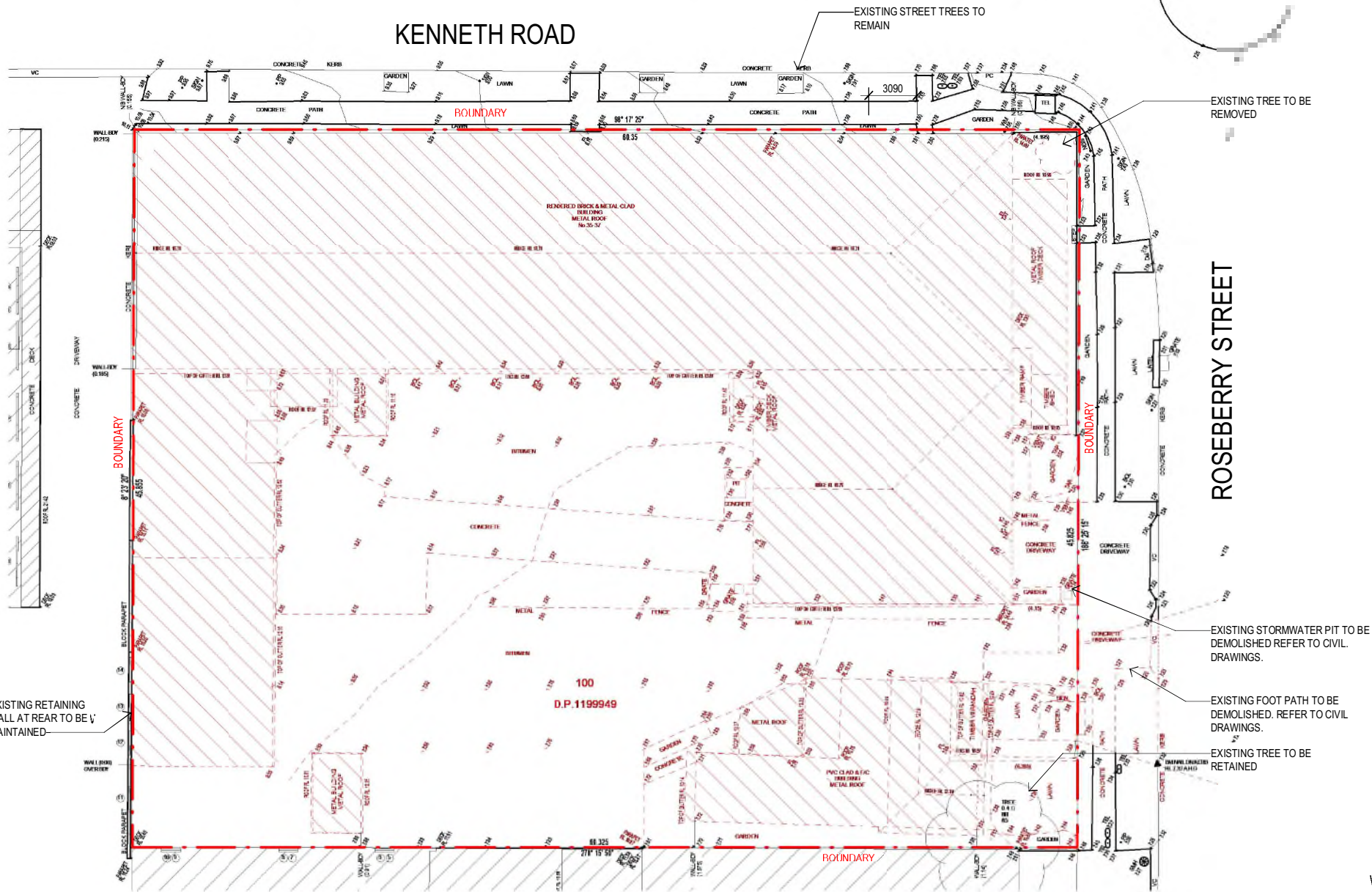
- SITE FEATURES ENHANCED VISIBILITY FROM TWO INTERSECTING STREETS, MAKING IT IDEAL FOR MCDONALD'S.
- CORNER SITES PROVIDE OPPORTUNITIES FOR UNIQUE ARCHITECTURAL DESIGNS THAT CAN ENHANCE THE BUILDING'S PRESENCE AND CREATE VISUAL INTEREST.
- OPPORTUNITY TO INTEGRATE EXISTING LANDSCAPING WITH NEW FACILITIES

Revisions	General Notes	Drawing Notes
<div> <div>C</div> <div>FOR DA</div> <div>02/12/24</div> <div>MD</div> <div>AS</div> </div> <div> <div>B</div> <div>FOR REVIEW</div> <div>02/12/24</div> <div>MD</div> <div>AS</div> </div> <div> <div>A</div> <div>PRELIM</div> <div>18/11/24</div> <div>MD</div> <div>AS</div> </div> <div> <div>Issue</div> <div>Description</div> <div>Date</div> <div>Chk</div> <div>nt</div> </div>	<p>General Notes</p> <p>Do not scale this drawing. The drawing shows design intent only. All dimensions to be checked on site prior to construction or production. Construction details to be confirmed by contractor and/or architect. This is a computer generated drawing. Do not amend by hand. Figure dimensions are to be used. Contact architect for clarification if dimensions are not clear. All dimensions are in millimeters. All discrepancies and omissions on site must be reported to the architect for their comments or approval prior to commencing work.</p>	<p>Drawing Notes</p> <p>North</p> <p>Client: McDonald's Australia Limited ARN: 43 019 454 626 170 9675 6999 c3@mcgroup-aus@au.mcd.com</p> <p>Project Manager</p> <p>webber</p>

### FOR DA APPROVAL

Scale	Series	
NTS	PLANNING 360	
Drawing		
SITE ANALYSIS DIAGRAMS		
Project Number	Drawing Number	Issue
2996	DA003	C

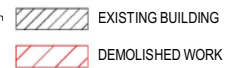




1 DA004 SITE PLAN DEMOLISHED  
1:250



#### WALL LEGEND



#### FOR DA APPROVAL

Scale	Series
As indicated @ A3	RIOMON 390
Drawing	SITE PLAN - DEMOLITION
Project Number	Drawing Number
2996	DA004
Issue	C

Revisions	General Notes	Drawing Notes
C FOR DA B FOR REVIEW A PRE DA	12/12/24 KD AS 02/12/24 KD AS 18/11/24 KD AS	Do not scale this drawing. The drawing shows design intent only. All dimensions to be checked on site prior to construction or production. Construction details to be confirmed by contractor and/or architect. This is a computer generated drawing. Do not amend by hand. Figure dimensions are to be used. Contact architect for clarification if dimensions are not clear. All dimensions are in millimeters. All discrepancies and omissions on site must be reported to the architect for their comments or approval prior to commencing work.
Issue Description	Date	Check

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Project Manager

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1300 666 666  
1300 666 666

Project: McDonald's Balgownie  
Location: 37 ROSEBERRY STREET BALGOWIE NSW 2083



# KENNETH ROAD

# ROSEBERRY STREET

## GENERAL NOTES:

1. ALL PAVEMENT LINES/MARKINGS SHALL BE WHITE EXCEPT WHERE NOTED. DO NOT PROVIDE A CONTINUOUS BORDER AROUND THE PERIMETER OF CHEVRON MARKING.
2. THE ACCESSIBLE PARKING SPACE SHALL BE DEFINED WITH AN UNMARKED PERIMETER AND THE INTERNATIONAL SYMBOL IN ACCORDANCE WITH AS1428.1 AND AS SPECIFIED.
3. THE TOP AND VERTICAL FACE OF KERBS SHALL BE PAINTED YELLOW IN ALL AREAS WHICH COULD BE TRAFFICKED BY PEDESTRIANS. THE DRIVE THRU LANE MAY BE EXCEPTED IF APPROPRIATE SIGNAGE IS PROVIDED. REFER TO SIGNAGE SCHEDULE.
4. WHEELSTOPS SHALL BE PAINTED YELLOW, CENTRED ON THE CAR SPACE AND INSTALLED IN ACCORDANCE WITH AS2890.1.
5. WHEELSTOP SPACING SHALL BE 620 FROM FACE OF KERB. WHEELSTOPS SHALL BE 1650 LONG.
6. CAR PARK ENTRY AND EXITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS AND AS2890.1.

## AREAS SCHEDULE

SITE AREA 2765 SQ.M

PROPOSED GFA 381 SQ.M

## PARKING DETAILS

TOTAL 28 PROPOSED CAR SPACES INCLUDING:  
1 X 2400 X 5400 ACCESSIBLE SPACE WITH  
1 X 2400 X 5400 CLIP ADJACENT DDA SPACE

15 CARS IN DRIVE THRU QUEUE  
8 CARS PRIOR TO DRIVE THRU ORDER POINTS  
1 X 2800 X 5400 SERVEY BAY (3rd WINDOW)  
2 X 2800 X 5400 WAITING BAY  
1 X LOADING BAY

## LEGEND:

- EXPOSED AGGREGATE CONCRETE FOOTPATH
- NEW LANDSCAPE AREA. REFER TO LANDSCAPE PLAN FOR FURTHER INFORMATION ON SHEET NO. DA007
- WS RUMBLE WHIFF STOPS AS SPECIFIED
- "RUMBLE BARS" AS SPECIFIED
- 27m LONG RUMBLE SPEED HUMPS AS SPECIFIED. QTY: 2 (TBC - SITE SPECIFIC)
- MIN. DDA CIRCULATION SPACE TO AS1428.1

1 DA004 SITE PLAN  
1/250

Revisions	General Notes	Drawing Notes
<p>C FOR DA</p> <p>B FOR REVIEW</p> <p>A PRELIM</p> <p>Issue Description</p>	<p>12/12/24 NO AS</p> <p>02/12/24 NO AS</p> <p>18/11/24 NO AS</p> <p>Date Chk M</p>	<p>Do not scale this drawing. The drawing shows design intent only. All dimensions to be checked on site prior to construction or production. Construction details to be confirmed by contractor/main contractor. This is a computer generated drawing. Do not amend by hand. Figure dimensions are to be used. Contact architect for clarification if dimensions are not clear. All dimensions are in millimeters. All discrepancies and omissions on site must be reported to the architect for their comments or approval prior to commencing work.</p>

North



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Project  
Modonal's Balgowlah  
Location  
37 ROSEBERRY STREET BALGOWLAH NSW

**FOR DA APPROVAL**  
NOT TO BE USED DURING CONSTRUCTION

Scale Series  
As indicated @ A3 (ROMON 380)

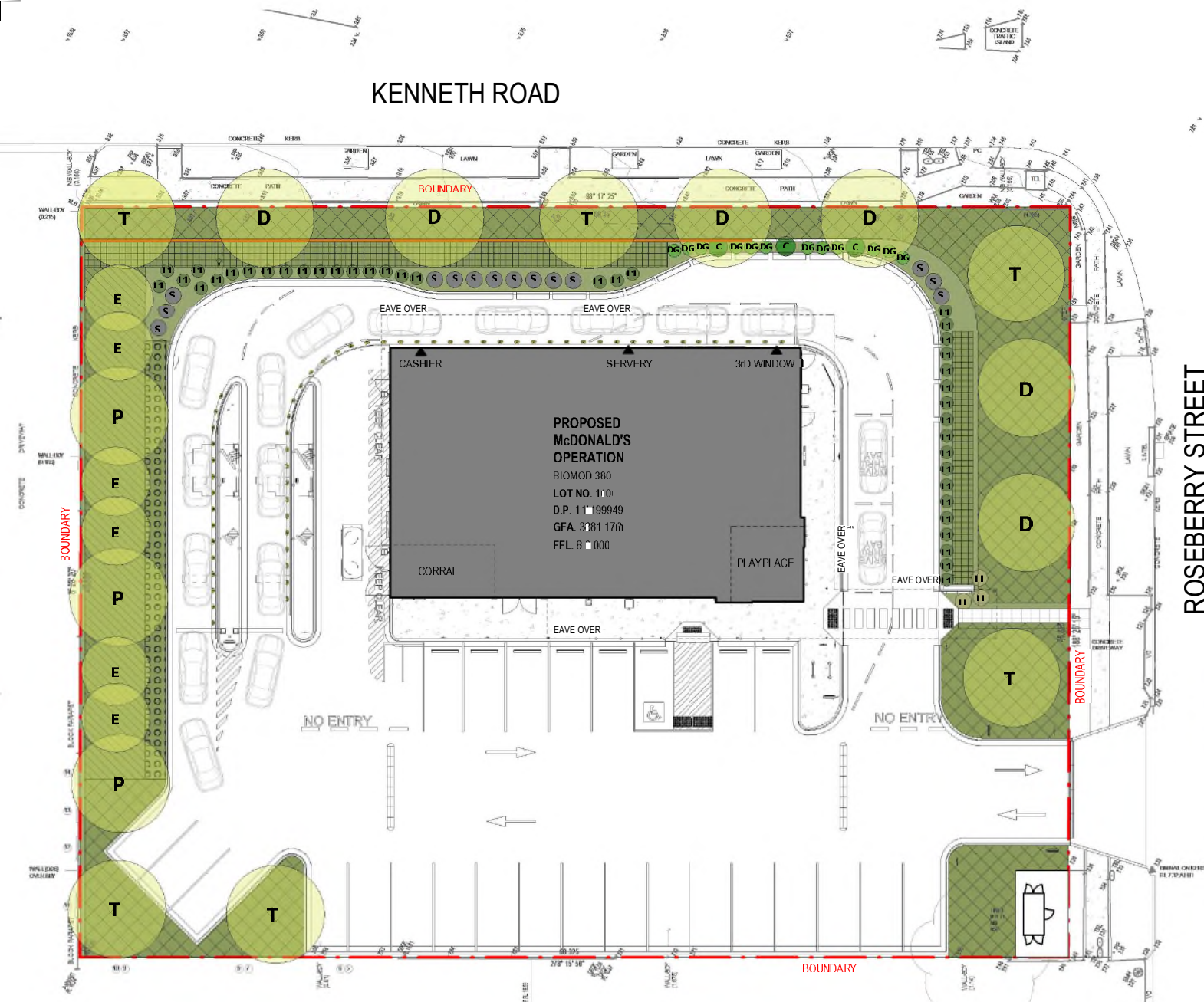
Drawing  
SITE PLAN - PROPOSED

Project Number Drawing Number Issue  
2996 DA005 C

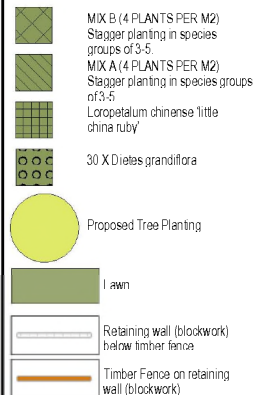
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# KENNETH ROAD



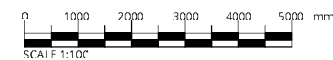
LANDSCAPING LEGEND:



ROSEBERRY STREET

### PLANTING SCHEDULE

Key	Botanical Name	Common Name	Pot Size	Mature Height	Mature Width	Quantity
<b>Trees</b>						
E	Elaeocarpus Eumundi	Native Quandong	75L	7m	2m	6
D	Eucalyptus leucocoryn 'Euky Dwarf'	Euky Dwarf	75L	6m	5m	6
P	Fodocarpus elatius	Illawarra Plum	75L	12m	5m	3
T	Instantanops laurina 'Luscious'	Kanooka	75L	8m	5m	6
<b>Feature Plants</b>						
C	Cordyline frutescens 'Rubra'	Cordyline	200mm	2.5m	1m	3
S	Strelitzia reginae	Bird of Paradise	200mm	1.2m	1m	13
<b>Low Border Plants</b>						
Dg	Dietes grandiflora	Dietes	200mm	0.6m	0.8m	30
Lc	Loxpetalum chinensis 'Little China Ruby'	Chinese Fringe	200mm	1m	1.5m	30
Ll	Nandina domestica alba 'Temon lime'	Sacred Bamboo	200mm	0.9m	0.9m	35
Ll	Philodendron kanadu	Xanadu	200mm	1m	1m	3
<b>Mix A</b>						
Md	Brachyscome 'Mauve Delight'	Native Daisy	150mm	0.2m	0.5m	
Cr	Carpetobrotus rosei	Native Pigface	150mm	0.2m	2m	
<b>Mix B</b>						
Cr	Carpetobrotus rosei	Native Pigface	Tube	0.2m	2m	
Dc	Dianella caerulea 'Little Jess'	Dianella 'Little Jess'	Tube	0.4m	0.4m	
Eg	Eumophila gabra	Common Emu Bush	Tube	0.3m	1m	
Lk	Lomandra longifolia 'Cacimut'	Tanika	Tube	0.7m	0.7m	
Mp	Myoporum parviflorum	Creeping Boobialla	Tube	0.1m	0.5m	



**FOR DA APPROVAL**  
NOT TO BE USED DURING CONSTRUCTION

Scale: As indicated @ A3  
Drawing: LANDSCAPING PLAN

Project Number	Drawing Number	Is
2996	DA007	E

## Revisions

B FOR DA  
A FOR REVIEW  
Issue Description

General Notes

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Drawing Notes

[illegible]

North



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**Project Manager** 

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IN ASSOCIATION WITH GREEN  
SPACE PLANNING

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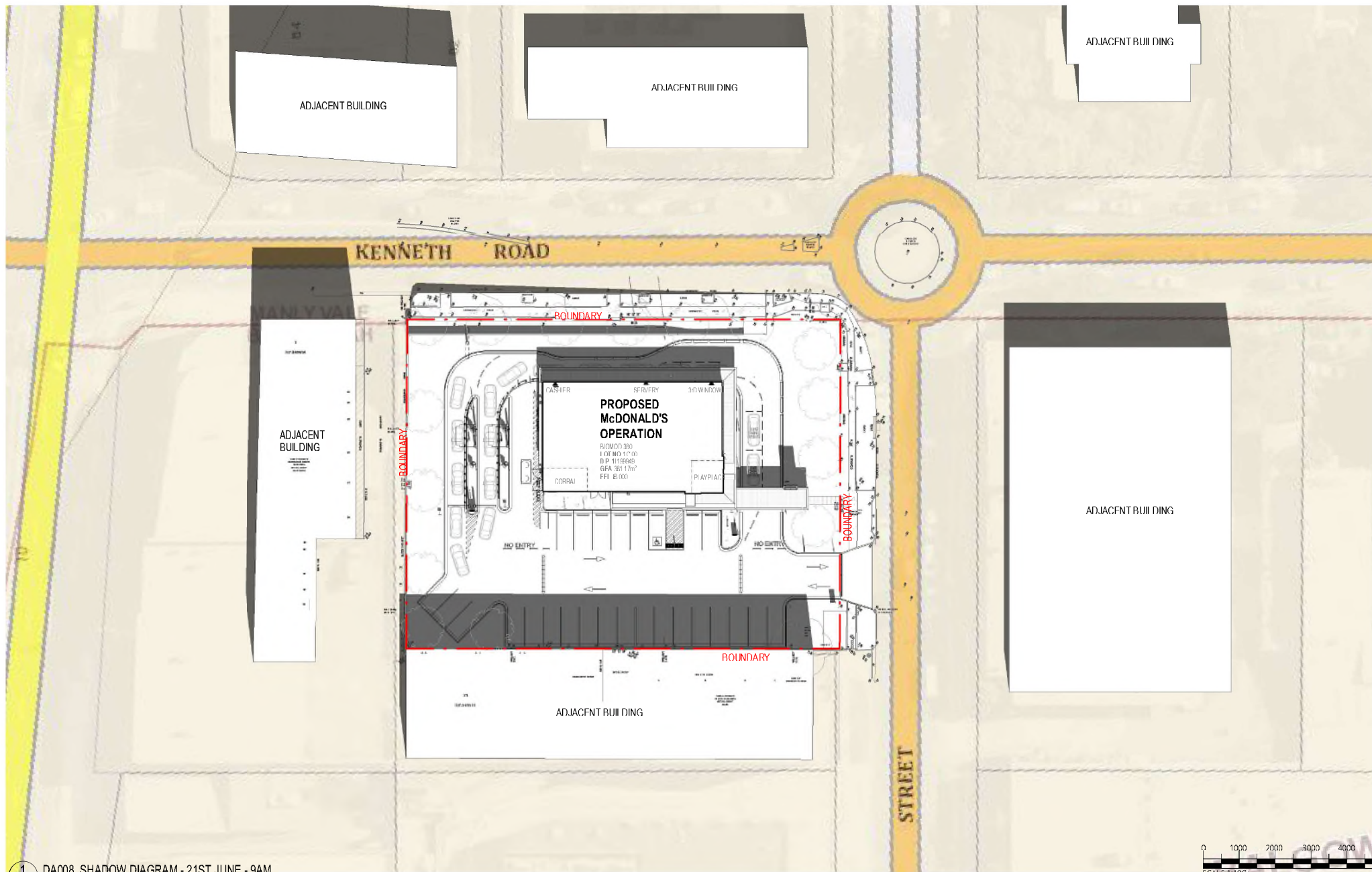
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Notwithstanding to whomsoever  
Notwithstanding to whomsoever

AGN 01 110 002 138

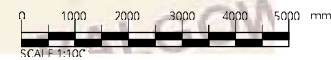
Project	McDonald's Balgowlah
Location	37 ROSEBERRY STREET BALGOWLAH 2093

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1 DA008 SHADOW DIAGRAM - 21ST JUNE - 9AM  
1:500



#### Revisions

B FOR DA  
A FOR REVIEW  
Issue Description

12/1/24 RD AS  
02/1/24 RB AS  
Date Chk nt

#### General Notes

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#### Drawing Notes

#### North



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 McDonald's Australia Limited  
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c3bagroup-aus@au.mcd.com

Project Manager  


webber

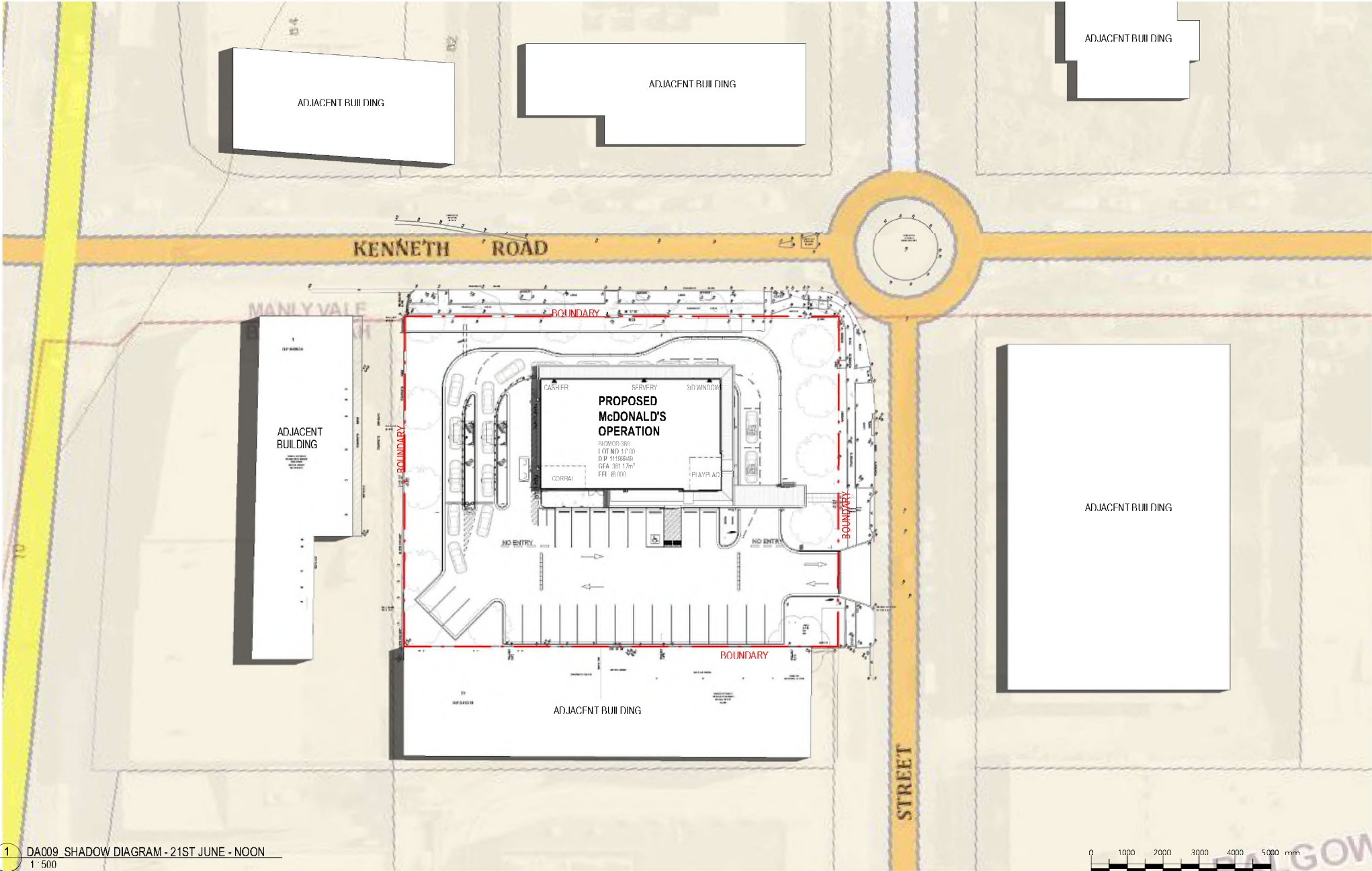
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Sydney Office: Level 1, 426 Hunter Street NSW 2201  
4936 1079

Project  
McDonald's Balgownie  
Location  
37 ROSFRFRY STREET BALGOWIE NSW 2303

#### FOR DA APPROVAL NOT TO BE USED DURING CONSTRUCTION

Scale Series  
As indicated @ A3 RIOMON 390  
Drawing  
SHADOW DIAGRAM - 9AM  
Project Number Drawing Number Issue  
2996 DA008 B






1 DA009 SHADOW DIAGRAM - 21ST JUNE - NOON  
1:500

Revisions		General Notes		Drawing Notes	
Do not scale this drawing. The drawing shows design intent only. All dimensions to be checked on site prior to construction or production. Construction details to be confirmed by contractor/manual adviser. This is a computer generated drawing. Do not amend by hand. Figure dimensions are to be used. Contact architect for clarification if dimensions are not clear. All dimensions are in millimeters. All omissions and omissions on site must be reported to the architect for their comments or approval prior to commencing work.					
B FOR DA	12/1/24	MD	AS		
A FOR REVIEW	02/1/24	MD	AS		
Issue Description	Date	Chk	nt		


North

Client



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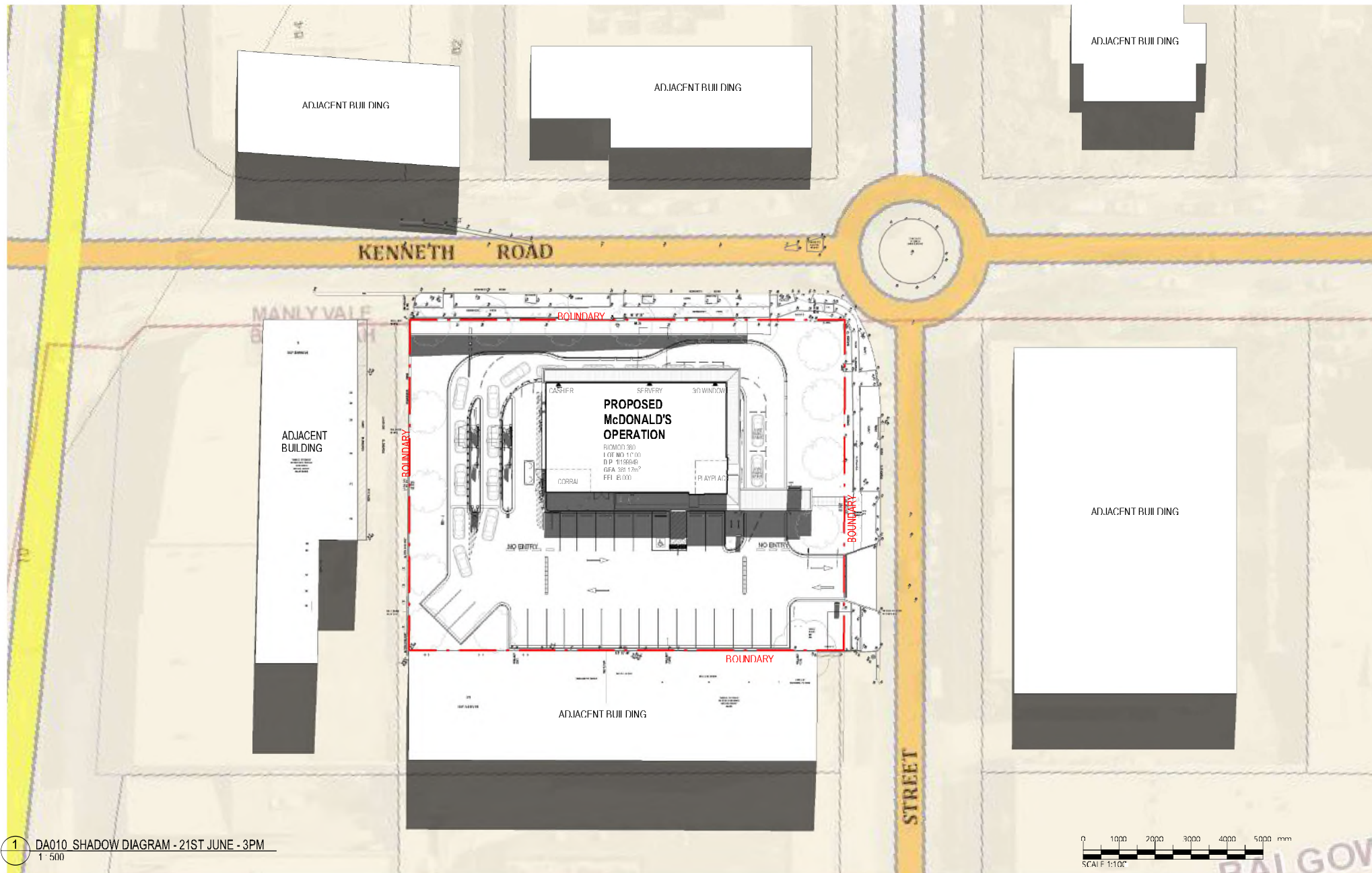
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Project  
McDonald's Balgowlah  
Location  
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**FOR DA APPROVAL**  
NOT TO BE USED DURING CONSTRUCTION

Scale	Series
As indicated @ A3	RIOMON 380
Drawing	
SHADOW DIAGRAMS - NOON	
Project Number	Drawing Number
2996	DA009
B	





1 DA010\_SHADOW DIAGRAM - 21ST JUNE - 3PM  
1"=500

Revisions		General Notes		Drawing Notes	
B	FOR DA	12/12/24	MD	AS	Do not scale this drawing. The drawing shows design intent only. All dimensions to be checked on site prior to construction or production. Construction details to be confirmed by contractor/manual auditor. This is a computer generated drawing. Do not amend by hand. Figure dimensions are to be used. Contact architect for clarification if dimensions are not clear. All dimensions are in millimeters. All omissions and omissions on site must be reported to the architect for their comments or approval prior to commencing work.
A	FOR REVIEW	02/12/24	MD	AS	
Issue	Description	Date	Chk	nt	

North

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**Project Manager**

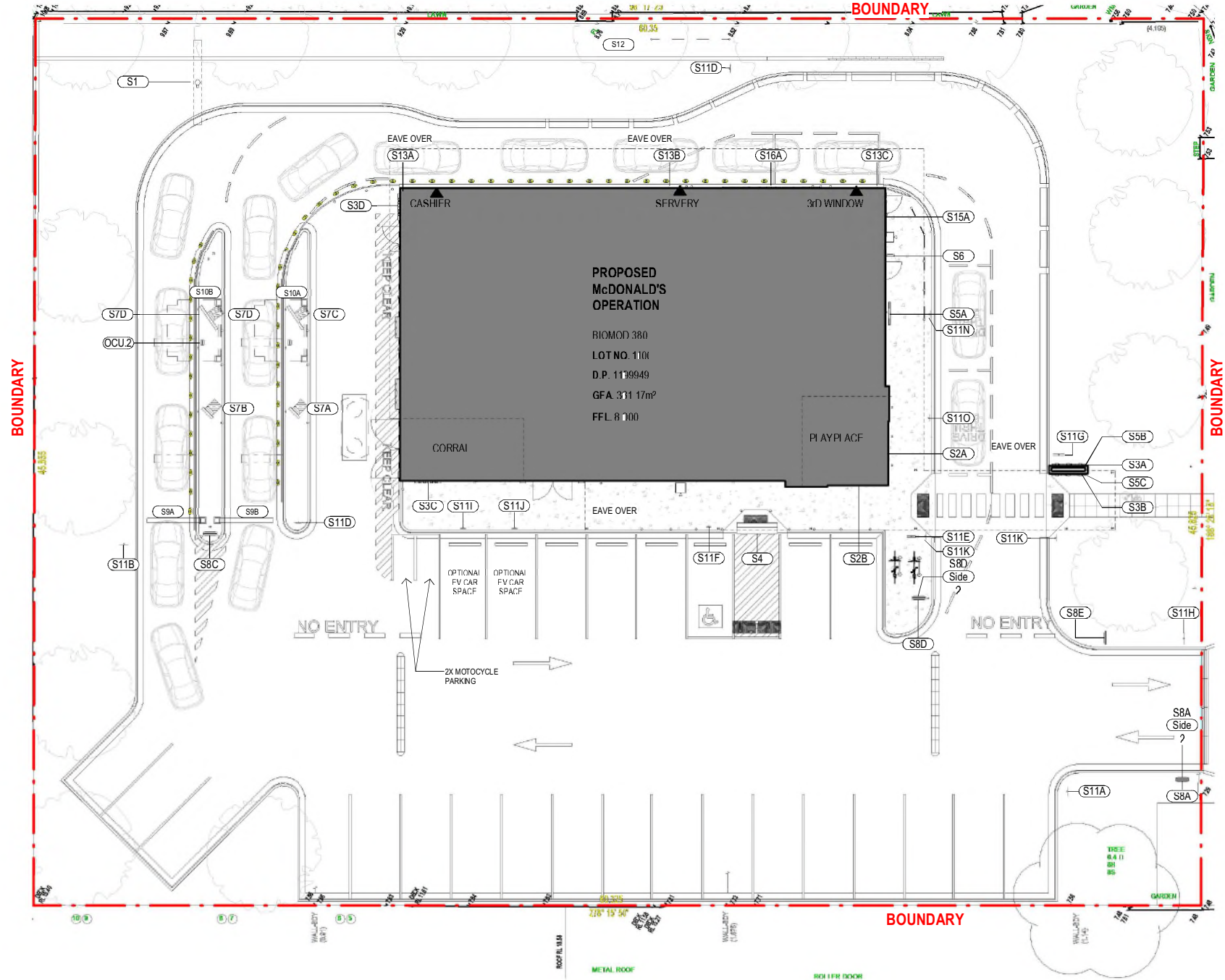
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Newcastle Projects: Ann Westcott 0418 476 4166  
488433 04 362 138

**Project**  
McDonald's Balgowlah  
  
**Location**  
37 ROSFRERY STREET BALGOW AH 2083

FOR DA APPROVAL		
NOT TO BE USED DURING CONSTRUCTION		
Scale	Series	
As indicated @ A3	R10M0N 360	
Drawing	SHADOW DIAGRAM - 3PM	
Project Number	Drawing Number	Issue
2996	DA010	B





NOTE: REFER TO DRAWINGS A011, A012 AND A013 FOR DETAILS.

SIGNAGE SCHEDULE		
Tag	Description	Illuminated
S1	Pylon Sign, 9m O/A HEIGHT, 4.34 x 3.5m HEAD	Yes
S2A	Play Place Wall Sign	Yes
S2B	Play Place Wall Sign	Yes
S3A	"Golden Arches" Wall Sign	Yes
S3B	"Golden Arches" Wall Sign	Yes
S3C	"Golden Arches" Wall Sign	Yes
S3D	"Golden Arches" Wall Sign	Yes
S4	"McDonald's" Wordmark Wall Sign	Yes
S5A	"McCafe" Button Sign Ø1200mm	
S5B	"McCafe" Wall Sign	
S5C	"McCafe" Wall Sign	
S6	McDelivery Wall Sign (Double Sided)	Yes
S7A	Outdoor Menuboard Single 55"	Yes
S7B	Outdoor Menuboard Single 55"	Yes
S7C	Outdoor Menuboard Double 55"	Yes
S7D	Outdoor Menuboard Double 55"	Yes
S8A	Directional Sign 0.7x2.3m High - Entry - Left Arrow	Yes
S8A Side 2	Directional Sign 0.7x2.3m High - Entry - Right Arrow	Yes
S8C	Directional Sign 0.7x2.3m High - Drive Thru - Double Arrow - Any Lane Any Time	Yes
S8D	Directional Sign 0.7x2.3m High - No Entry	Yes
S8D Side 2	Directional Sign 0.7x2.3m High - Thank You	Yes
S8E	Directional Sign 0.7x2.3m High - Thank You	Yes
S9A	Height Clearance Gantry Sign	Yes
S9B	Height Clearance Gantry Sign	Yes
S10A	Canopy - Drive Thru - Wording "1. Order here"	Yes
S10B	Canopy - Drive Thru - Wording "1. Order here"	Yes
S11A	Speed Sign (10km/hr)	No
S11B	No Pedestrian Access	No
S11D	No Pedestrian Access	No
S11E	Bike Rack Sign	No
S11F	Accessible Parking Sign	No
S11G	Pedestrian Crossing Sign	No
S11H	Stop Sign	No
S11I	Electric Vehicle Charging Bay #1 Sign (Optional)	
S11J	Electric Vehicle Charging Bay #2 Sign (Optional)	
S11K	Pedestrian Caution - Look Both Ways Sign	No
S11N	Drive Thru Wait Bay #1 Sign	No
S11O	Drive Thru Wait Bay #2 Sign	No
S12	Flag Poles and Banner	No
S13A	Drive-Thru Information Sign "2. PAY HERE"	No
S13B	Drive-Thru Information Sign "3. PICK UP HERE"	No
S13C	Drive-Thru Information Sign "4. PICK UP HERE"	No
S15A	"Golden Arches" Wall Sign	Yes
S16A	"McDonald's" Wordmark Wall Sign	

Revisions	General Notes	Drawing Notes
B FOR DA A FOR REVIEW Issue Description	12/12/24 MD AS 02/12/24 MB AS Date Chk Nt	Do not scale this drawing. The drawing shows design intent only. All dimensions to be checked on site prior to construction or production. Construction details to be confirmed by contractor/manual labour. This is a computer generated drawing. Do not amend by hand. Figure dimensions are to be used. Contact architect for clarification if dimensions are not clear. All dimensions are in millimeters. All elevations and positions on site must be reported to the architect for their comments or approval prior to commencing work.

North

Client

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Project Manager

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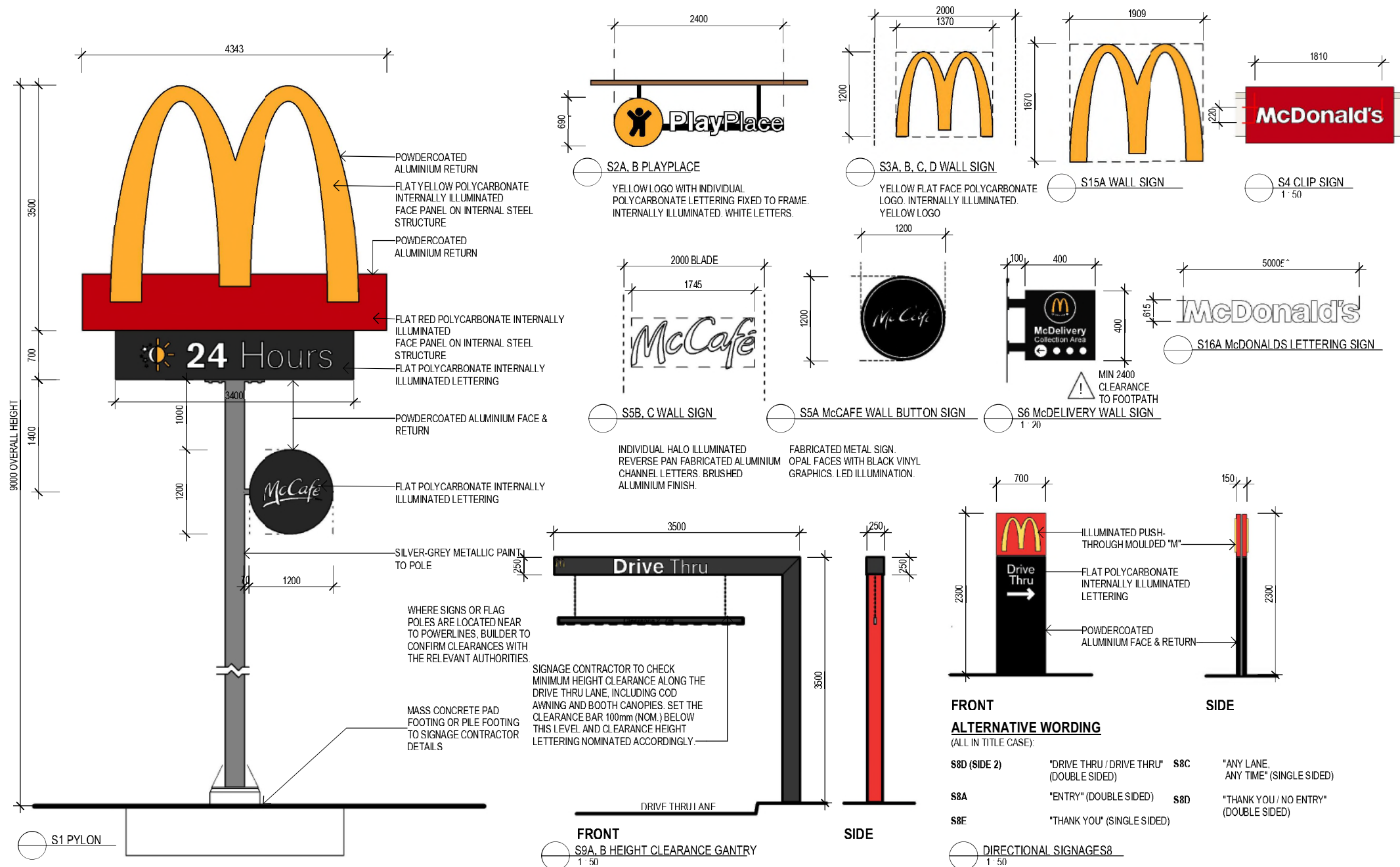
webber

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North Coast Projects: All Projects 141 000 000 000  
484 000 000 000

Project  
McDonald's Balgownie  
1 revision  
37 ROSEFRY STREET BALGOWIE NSW 2083

FOR DA APPROVAL NOT TO BE USED DURING CONSTRUCTION		
Scale 1:200 @ A3	Series RIOMOD 380	
Drawing SITF SIGNAGE PLAN		
Project Number 2996	Drawing Number DA011	Issue B





#### Revisions

B FOR LIA  
A FOR REVIEW  
Issue Description

12/1/24 RD AS  
02/1/24 RB AS  
Date Chg Rtr

#### General Notes

Do not scale this drawing. The drawing shows design intent only. All dimensions to be checked on site prior to construction or production. Construction details to be confirmed by contractor/main contractor. This is a computer generated drawing. Do not amend by hand. Figures dimensions are to be used. Contact architect for clarification if dimensions are not clear. All dimensions are in millimeters. All omissions and omissions on site must be reported to the architect for their comments or approval prior to commencing work.

#### Drawing Notes

#### North



webber

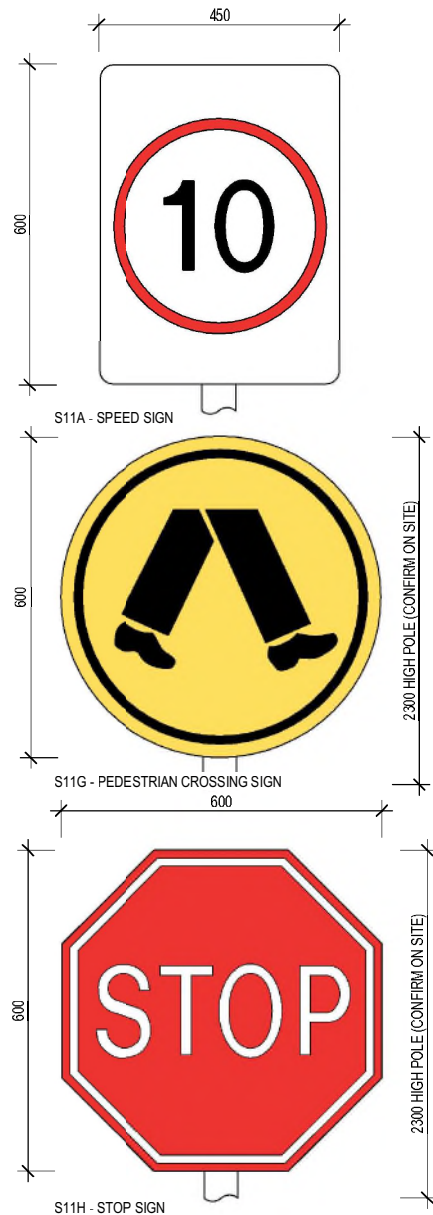
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Project  
McDonald's Balgowlah  
Location  
37 ROSFRFRY STREET BALGOWLAH NSW

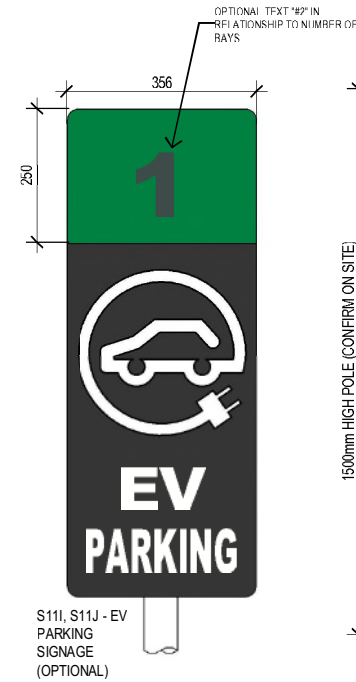
#### FOR DA APPROVAL NOT TO BE USED DURING CONSTRUCTION

Scale  
As indicated @ A3  
Drawing  
SIGNAGE DETAILS  
Project Number  
2996  
Drawing Number  
DA012  
Issue  
B





DEPENDENT ON LOCATION WITHIN SITE, S11 SIGNAGE SHOULD BE SET A MINIMUM OF 2m ABOVE TOP OF KERB TO PREVENT OBSTRUCTION TO OCCASIONAL PEDESTRIANS, OR TO REDUCE INTERFERENCE FROM PARKED VEHICLES. IF THIS DOESN'T APPLY, SIGNAGE HEIGHTS SHALL BE SET AS NOTED.



#### McDONALD'S Signage Colours

	McDonald's Gold
PMS 1235 C	
122 U	
CMYK 0 29 96 0	
RGB 255 188 13	
HEX FFBC00	
	McDonald's Red
PMS 2035 C	
CMYK 0 100 95 0	
RGB 219 0 7	
HEX D90007	
	Green
PMS 350 C	
CMYK 80 43 96 42	
RGB 43 82 51	
HEX 2B5233	
	Charcoal
PMS Cool Gray 11C	
CMYK 0 0 0 80	
RGB 45 45 45	
HEX 2D2D2D	
	Light Gray
PMS Cool Gray 1C	
CMYK 0 0 0 8	
RGB 247 247 247	
HEX B6B6B6	
	Black
PMS Black 6 C	
CMYK 82 71 59 75	
RGB 16 24 32	
HEX 101820	
	Reflex Blue
PMS Reflex Blue	
CMYK 100 96 13 9	
RGB 0 22 137	
HEX 001689	



#### Revisions

Rev	For DA	For Review	Issue	Description
1	12/12/24	12/12/24	1	Issue

#### General Notes

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#### Drawing Notes

#### North



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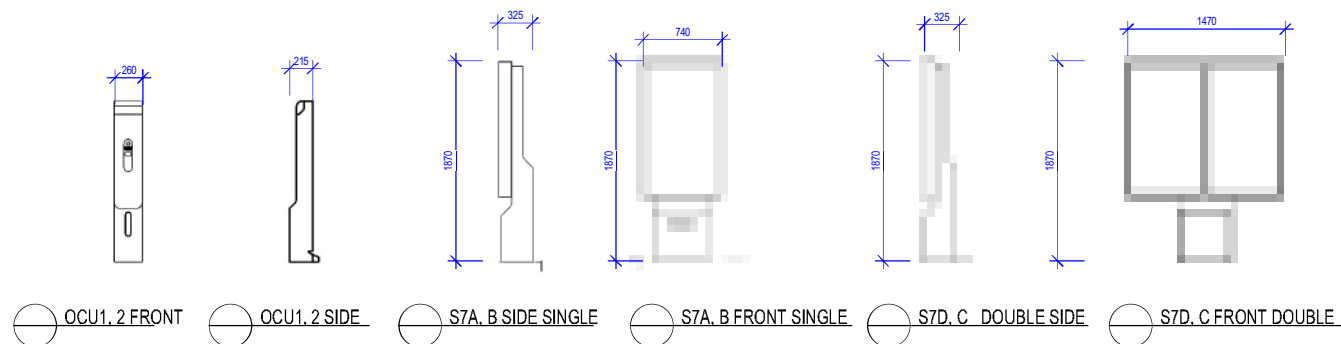
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02 4936 1076

Project  
McDonald's Balgownie  
Location  
37 ROSEFRY STREET BALGOWIE NSW 2803

#### FOR DA APPROVAL NOT TO BE USED DURING CONSTRUCTION

Scale	Series	
1:10 @ A3	ROMON 390	
Drawing		
SIGNAGE DETAIL S		
Project Number	Drawing Number	Issue
2996	DA013	B





11 S12 FLAG POLES/BANNER  
1 - 100



**webber**

Project  
McDonald's Balgowlah  
Location  
37 ROSEBERRY STREET BALGOWLAH 2093

Scale	Series
As indicated @ A3	BIOMON 380
Drawing SIGNAGE DETAILS	
Project Number	Drawing Number
2996	DA014
	Issue
	B



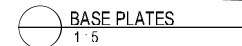
THE NOTES BELOW REFER TO THE FOLLOWING PARTIES:

- BUILDER (OR THE BUILDER'S ELECTRICAL SUB-CONTRACTOR (E.S.C.)).
- CERTIFIED DELPHI COD CONTRACTOR.
- SIGNAGE CONTRACTOR.

1. PROVIDE CONDUITS OF NUMBER AND SIZES DESCRIBED BELOW, AND DRAW WIRES TO WEATHERPROOF JUNCTION BOXES WHERE SHOWN ON THE DRAWINGS OR DESCRIBED BELOW. ALL CONDUITS SHALL BE INSTALLED AT THE REQUIRED DEPTH IN ACCORDANCE WITH THE CURRENT EDITION OF AS/NZS3000 WIRING RULES. ALL CONDUIT PENETRATIONS TO BE SEALED.
2. THE DELPHI COD UNIT INSTALLATION DOCUMENTATION REQUIRES PROVISION OF FOUR CONDUITS AND DRAW WIRES RUNNING FROM THE STORE TO EACH COD UNIT: 1 X 32mm CONDUIT FOR 240V POWER, 1 X 25mm CONDUIT FOR DATA AND IMS, 1 X 32mm CONDUIT FOR AUDIO, AND ONE TO THE BASE OF CANOPY COLUMN NEAR MENU BOARDS AT EACH COD: 1 X 25mm CONDUIT FOR DATA AND LV POWER TO IP CAMERA.
3. CONDUITS SHALL TERMINATE THROUGH THE TOP OF THE COD UNIT FOOTING IN A CLUSTER AS DETAIL (REFER DETAIL STD0036), AND TERMINATE WITHIN THE SURFACE MOUNTED JUNCTION BOXES AT A LOCATION WHICH WILL BE REASONABLY ACCESSIBLE TO THE COD CONTRACTOR AT A LATER DATE.
4. GENERALLY CONDUITS RUNNING BACK TO THE STORE SHALL RISE TO SURFACE MOUNTED JUNCTION BOXES VIA CONDUITS WITHIN THE WALL CAVITY.
5. SURFACE MOUNTED CONDUITS TO WALLS (E.G. CORRAL WALLS) SHALL BE SECURELY CONCEALED WITHIN A COLORBOND FINISH TOP-HAT SECTION COVER WHERE APPLICABLE.
6. GENERALLY ALLOW FOR AN INSPECTION ELBOW OR WEATHERPROOF JUNCTION BOX AT MAJOR CHANGES OF DIRECTION, OR AT INTERVALS OF FIVE BENDS/CORNERS.
7. BUILDER SHALL CONTACT THE SIGNAGE CONTRACTOR TO ARRANGE INSTALLATION OF NEW MENUBOARD AS NOTED ON THE DRAWINGS. PROVIDE 1 X 25mm DIA CONDUIT FOR POWER & 1 X 25mm DIA CONDUIT FOR DATA TO EACH NEW MENUBOARD LOCATION, AND ANY WEATHERPROOF JUNCTION BOXES REQUIRED BY THE SIGNAGE CONTRACTOR. INSTALL CABLE AND CONNECT POWER AT BOTH ENDS.
8. VEHICLE DETECTOR LOOPS SHALL BE PROVIDED WHERE INDICATED ON DRAWINGS. THE BUILDER SHALL SUPPLY AND INSTALL A 25mm DIA CONDUIT LOOPS CAST INTO THE PAVEMENT AS DETAILED.
9. THE BUILDER SHALL PROVIDE 1 X 25mm DIA CONDUIT ("L" SHAPED), RUNNING FROM THE COD UNIT TO THE VEHICLE DETECTOR LOOP, WITH A JUNCTION BOX BEHIND THE KERB.
10. PROVIDE A CONCRETE FOOTING FOR THE COD UNIT AND COD AWNING AS DETAILED ON THE DRAWINGS (LOCATING BOLTS SHALL BE CAST IN-SITU BY THE BUILDER).
11. THE BUILDER SHALL CONTACT THE COD CONTRACTOR TO ENSURE INSTALLATION OF THE COD UNIT AND SERVICES IS FULLY COORDINATED WITH THE BUILDING WORK.
12. PROVIDE PROTECTIVE BOLLARDS TO THE SHARED ZONE NEXT TO THE ACCESSIBLE PARKING SPACE, COD UNITS AND THE AWNINGS (IF APPLICABLE), WHERE INDICATED ON THE DRAWINGS.
13. THE BUILDER SHALL CONSTRUCT TIMBER EDGE BOARDS AS REQUIRED ON PROJECT SPECIFIC DETAILS TO RETAIN GROUND ON SLOPING SITES.

1. SUPPLY AND INSTALL THE COD UNITS TO A LOCATION NOMINATED ON THE DRAWINGS.
2. RUN CABLES FOR POWER, DATA AND AUDIO THROUGH CONDUITS (PROVIDED BY E.S.C.) FROM THE COD UNITS TO THE STORE, AND CONNECT AT BOTH ENDS.
3. INSTALL CABLES TO THE AUDIO AND DATA CONDUITS AND RETICULATE WITHIN STORE AS REQUIRED TO CONNECT ALL APPLICABLE SYSTEMS.
4. INSTALL POWER TO THE COD POWER CONDUIT AND CONNECT TO A NEW DEDICATED SWITCHBOARD CIRCUIT.
5. THE COD CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING GOOD ANY PART OF THE BUILDING DAMAGED, RELOCATED OR OTHERWISE DISTURBED, AS A RESULT OF CABLE INSTALLATIONS, CONNECTIONS OR RETICULATION WITHIN THE BUILDING.
6. INSTALL THE CABLEING FOR THE VEHICLE DETECTOR LOOP AND CONNECT AT BOTH ENDS, IN ALL CASES.

1. SUPPLY AND INSTALL MENUBOARDS AND CONNECT TO POWER CONDUIT BY BUILDER.
2. SUPPLY AND INSTALL AWNINGS OVER COD'S.
3. CONSTRUCT MENUBOARD FOOTINGS, UNLESS AN AWNING FOOTING HAS BEEN PROVIDED BY THE BUILDER WHICH MAKES PROVISION FOR THE MENUBOARDS. REFER TO PROJECT SPECIFIC DRAWINGS.
4. SUPPLY AND INSTALL "ORDER HERE" SIGNAGE. REFER DETAIL STD9010

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Principal Architect: Jon Webber AIA, MRSA, AFS, NIS 6306  
Associate: Vicki Cook AIA

Project  
McDonald's Balgowlah  
Location  
37 ROSFRERY STREET BAL GOWI AH 2093

**FOR DA APPROVAL**  
 NOT TO BE USED DURING CONSTRUCTION

---

Scale	Series
1" = 5' @ A3	BIOMON 380

Drawing

**COD UNIT SCOPE OF WORKS**

Project Number	Drawing Number	Issue
2996	DA015	B



SETOUT POINT 1

KEEP CLEAR

KEEP CLEAR

**NOTES:****SMB + DMB**

SINGLE (SMB) AND DOUBLE (DMB) DIGITAL MENUBOARD. CONCRETE FOOTINGS, POWER AND DATA SUPPLY BY BUILDERS ELECTRICIAN. INSTALLATION BY NOMINATED SIGNAGE CONTRACTOR.

**SPEAKER:**

CUSTOMER ORDER DISPLAY SPEAKER BOX. POWER AND DATA SUPPLY BY BUILDERS ELECTRICIAN. INSTALLATION BY NOMINATED SIGNAGE CONTRACTOR.

RUMBLE BARS BOLTED TO CONCRETE HARD STAND @ 100mm CRS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION REFER A007 FOR SPECIFICATION

CUSTOMER ORDER CANOPY WITH WEATHER SHIELD SUPPLIED AND INSTALLED BY SIGNAGE CONTRACTOR POWER SUPPLY FOR ILLUMINATION BY BUILDERS ELECTRICIAN

IP CAMERA POLE BY BUILDERS ELECTRICIAN

RUMBLE BARS BOLTED TO CONCRETE HARD STAND @ 100mm CRS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION REFER A007 FOR SPECIFICATION

CUSTOMER ORDER CANOPY WITH WEATHER SHIELD SUPPLIED AND INSTALLED BY SIGNAGE CONTRACTOR POWER SUPPLY FOR ILLUMINATION BY BUILDERS ELECTRICIAN

DRIVE-THRU #1

DRIVE-THRU #2

NEW CO-UNIT POLE LARDS

150 HIGH BLACK CONCRETE ISLAND TO STRUCTURAL ENGINEERS DETAILS BARRIER KERB PROFILE

HEIGHT GENTRY POWER SUPPLY BY BUILDERS ELECTRICIAN INSTALLATION BY NOMINATED SIGNAGE CONTRACTOR

CC TV CAMERA POLE BY BUILDERS ELECTRICIAN

NEW CO-UNIT POLE LARDS

HEIGHT GENTRY POWER SUPPLY BY BUILDERS ELECTRICIAN INSTALLATION BY NOMINATED SIGNAGE CONTRACTOR

150 HIGH BLACK CONCRETE ISLAND TO STRUCTURAL ENGINEERS DETAILS BARRIER KERB PROFILE

**FOR DA APPROVAL**  
NOT TO BE USED DURING CONSTRUCTION

## Revisions

## General Notes

## Drawing Notes

## North

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Project  
McDonald's Balgownie  
Location  
37 ROSEBERRY STREET BALGOWIE NSW

Scale  
1:50 @ A3  
Drawing  
COD UNIT DETAILS  
Project Number  
2996  
Drawing Number  
DA016  
Issue  
B

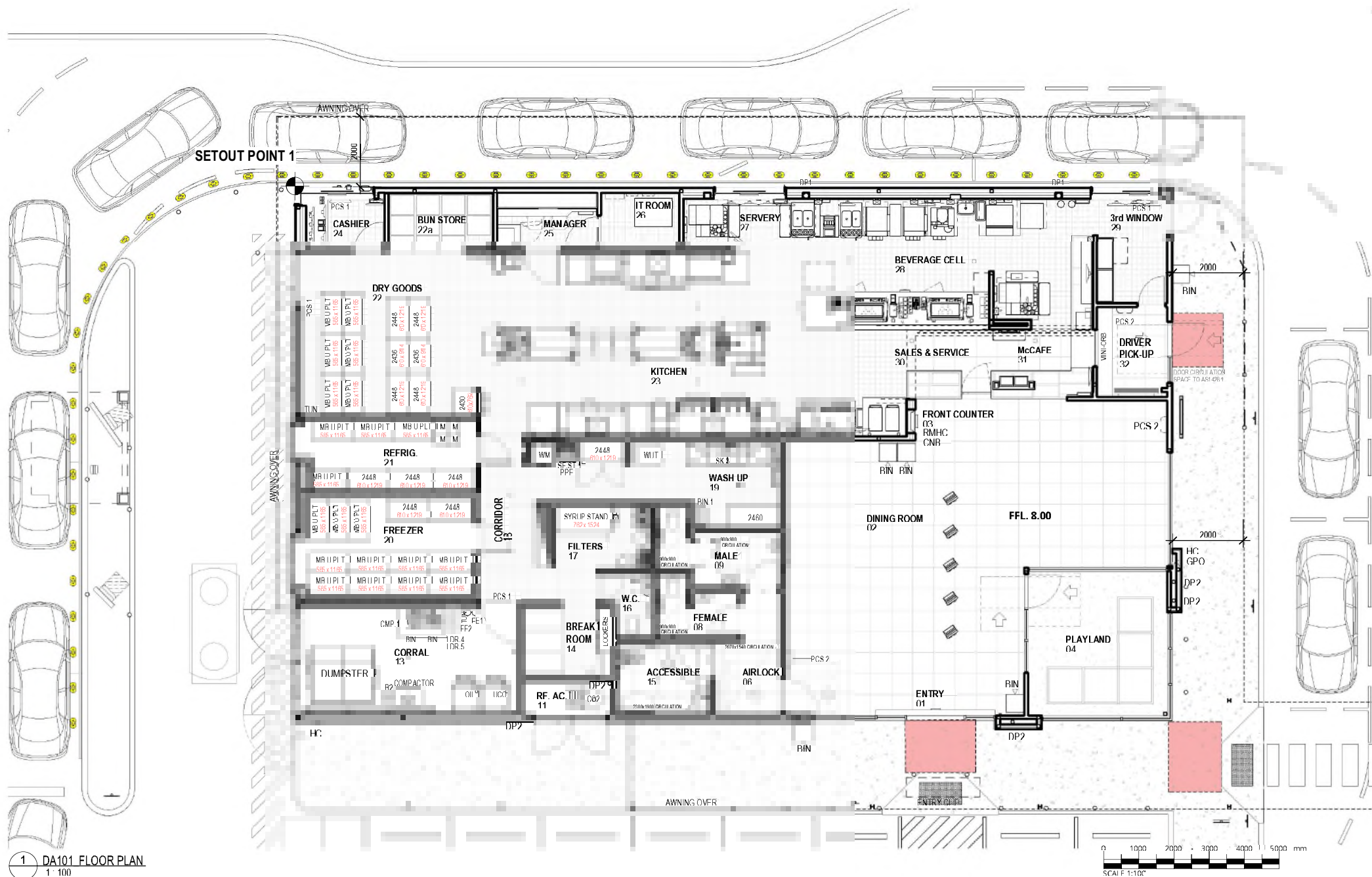
B FOR DA  
A FOR REVIEW  
Issue Description

12/1/24 RD AB  
02/1/24 RD AB  
Date Chk Rk

Do not scale this drawing. The drawing shows design intent only. All dimensions to be checked on site prior to construction or production. Construction details to be confirmed by contractor and manufacturer. This is a computer generated drawing. Do not amend by hand. Figure dimensions are to be used. Contact architect for clarification of dimensions are not clear. All dimensions are in millimeters. All omissions and omissions on site must be reported to the architect for their comments or approval prior to commencing work.







1 DA101 FLOOR PLAN  
1:100

Revisions		General Notes		Drawing Notes	
C	FOR DA	12/12/24	ND AS	<p>Do not scale this drawing. The drawing shows design intent only. All dimensions to be checked on site prior to construction or production. Construction details to be confirmed by contractor/manual installer. This is a computer generated drawing. Do not amend by hand. Figure dimensions are to be used. Contact architect for clarification if dimensions are not clear. All dimensions are in millimeters. All discrepancies and omissions on site must be reported to the architect for their comments or approval prior to commencing work.</p>	
B	FOR REVIEW	02/12/24	ND AS		
A	PRE DA	18/11/24	ND AS		
Issue	Description	Date	Chk		

North

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Project  
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Location  
37 ROSEBERRY STREET BALGOWIE NSW 2383


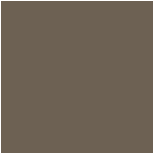
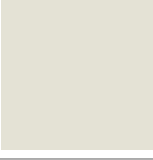
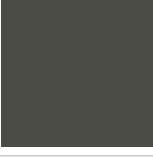

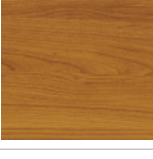
FOR DA APPROVAL NOT TO BE USED DURING CONSTRUCTION		
Scale As indicated @ A3	Series R10M01 390	Issue C
Drawing FLOOR PLAN	Project Number 2996	
Drawing Number DA101		







EXTERNAL FINISHES SCHEDULE

CODE	No.	AREA	DESCRIPTION	MANUFACTURER	COLOUR	IMAGE
FC	02	MAIN BUILDING WALLS	FIBRE CEMENT WEATHERTEX VERTICAL WEATHERBOARDS	WEATHERTEX	WAYWARD GREY PG1G8	
MC	01	PARAPET CAPPING - ADJACENT TIMBER LOOK CLADDING (PLAYLAND)	PREFINISHED METAL CAPPING / FLASHING	COLORBOND	JASPER	
MC	02	PARAPET CAPPING - AWNINGS	PREFINISHED METAL CAPPING / FLASHING	COLORBOND	SURFMIST	
MC	03	PARAPET CAPPING - MAIN BUILDING WALLS	PREFINISHED METAL CAPPING / FLASHING	COLORBOND	WOODLAND GREY	
MC	04	PARAPET CAPPING	PREFINISHED METAL CAPPING / FLASHING	COLORBOND	MANOR RED	
MWC	01	PLAYPLACE & PARAPETS	TIMBER LOOK ALUMINIUM CLADDING SYSTEM USING KNOTWOOD 200mm CLADDING PROFILE	KNOTWOOD	LIGHT OAK	
MWC	02	ROOF WELL (INTERNAL PARAPET LINING)	CUSTOM ORB CORRUGATED STEEL RIVET FIXED VERTICALLY TO FRAMES	LYSAGHT	ZINCALUME	

EXTERNAL FINISHES SCHEDULE

CODE	No.	AREA	DESCRIPTION	MANUFACTURER	COLOUR	IMAGE
PC	01	CORRAL BATTENS & ROOF ACCESS, ELEC. ROOM DOORS	POWDERCOAT FINISH	DULUX DURATEC ZEUS	LUNAR ECLIPSE SATIN (BLACK)	
PC	02	ALUMINIUM WINDOWS & DOOR FRAMES. REFER NOTE 1.	POWDERCOAT FINISH	DULUX DURATEC ZEUS	LUNAR ECLIPSE SATIN (BLACK)	
PT	01	FASCIAS (RIBBON)	PAINT FINISH. REFER SPECIFICATION FOR DETAILS ON PAINT TYPE & APPLICATION	DULUX	VIVID WHITE PW1H9	
PT	02	MAIN BUILDING WALLS	PAINT FINISH. REFER SPECIFICATION FOR DETAILS ON PAINT TYPE & APPLICATION	DULUX	WAYWARD GREY PG1G8	
PT	05	BLADE WALL & DRIVETHRU WINDOWS	PAINT FINISH. REFER SPECIFICATION FOR DETAILS ON PAINT TYPE & APPLICATION	DULUX	HOTLIPS PB1F2	
STN	01	DRIVETHRU WINDOW SILL & SURROUND	RECONSTITUTED STONE. REFER TO DECOR DOCUMENTS	REFER DECOR	REFER DECOR	

Revisions

C FOR DA  
B FOR REVIEW  
A PRELIM  
Issue Description

12.12.24 KD AS  
02.11.24 KB AS  
18.11.24 KB AS  
Date Chg By

General Notes

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Drawing Notes

North



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Project  
McDonald's Balgownie  
Location  
37 ROSFRFRY STREET BALGOWIE SAH 2083

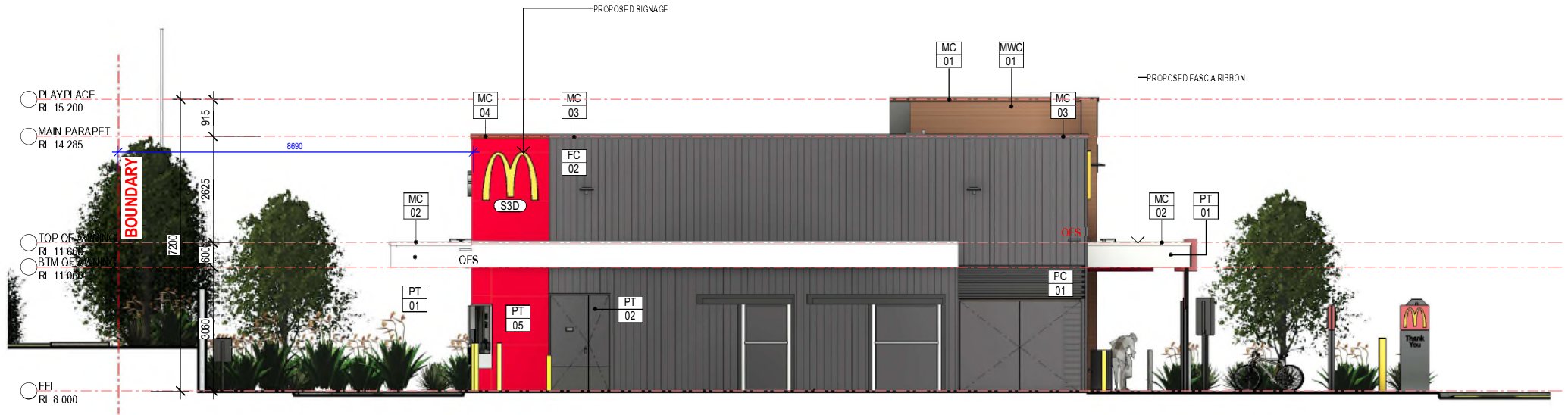
FOR DA APPROVAL  
NOT TO BE USED FOR CONSTRUCTION

Scale  
@A3  
Drawing  
EXTERNAL FINISHES SCHEDULE  
Project Number  
2996  
Drawing Number  
DA200  
Issue  
C









1 WEST ELEVATION  
1:100

#### Revisions

Issue	Description	Date	Check	By
C	FOR DA	12/12/24	MD	AS
B	FOR REVIEW	02/11/24	MD	AS
A	PRELIM	18/11/24	MD	AS

#### General Notes

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#### Drawing Notes

#### North



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Project  
McDonald's Balgownie  
Location  
37 ROSFRIDY STREET BALGOWIE NSW 2203

#### FOR DA APPROVAL NOT TO BE USED DURING CONSTRUCTION

Scale  
1:100 @ A3  
Drawing  
WEST ELEVATION  
Project Number  
2996  
Series  
R10001390  
Drawing  
WEST ELEVATION  
Project Number  
2996  
Drawing Number  
DA203  
Issue  
C









Revisions	General Notes	Drawing Notes
B FOR LIA A FOR REVIEW Issue Description	Do not scale this drawing. The drawing shows design intent only. All dimensions to be checked on site prior to construction or production. Construction details to be confirmed by contractor/manual labour. This is a computer generated drawing. Do not amend by hand. Figure dimensions are to be used. Contact architect for clarification if dimensions are not clear. All dimensions are in millimeters. All omissions and omissions on site must be reported to the architect for their comments or approval prior to commencing work.	
12/1/24 02/1/24 Date	02/1/24 02/1/24 Date	02/1/24 02/1/24 Date

North



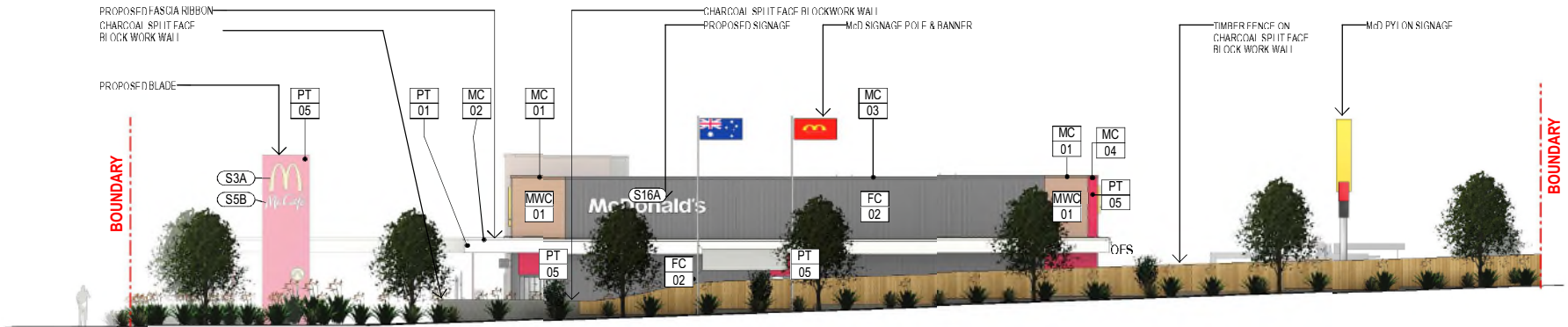
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 Sydney (Level 10) 1138 Willoughby Road Crows Nest NSW 2066  
 4936 1138 1138

Project  
 McDonald's Balgownie  
 Location  
 37 ROSFRERY STREET BALGOWIE NSW 2083

FOR DA APPROVAL NOT TO BE USED DURING CONSTRUCTION		
Scale 1:100 @ A3	Series R1000130	Issue B
Drawing NORTH ELEVATION	Project Number 2996	Drawing Number DA205





1 NORTH ELEVATION (STREET FRONT)  
1:200



2 EAST ELEVATION (STREET FRONT)  
1:200

Revisions	General Notes	Drawing Notes
<div> <div>A</div> <div>FOR DA</div> <div>Issue Description</div> </div>	<div> <p>Do not scale this drawing. The drawing shows design intent only. All dimensions to be checked on site prior to construction or production. Construction details to be confirmed by contractor/manual labourer. This is a computer generated drawing. Do not amend by hand. Figure dimensions are to be used. Contact architect for clarification if dimensions are not clear. All dimensions are in millimeters. All discrepancies and omissions on site must be reported to the architect for their comments or approval prior to commencing work.</p> </div>	
<div> <div>12/12/24</div> <div>MD AS</div> <div>Date</div> <div>CH</div> <div>nt</div> </div>		

North



Client  
McDonald's Australia Limited  
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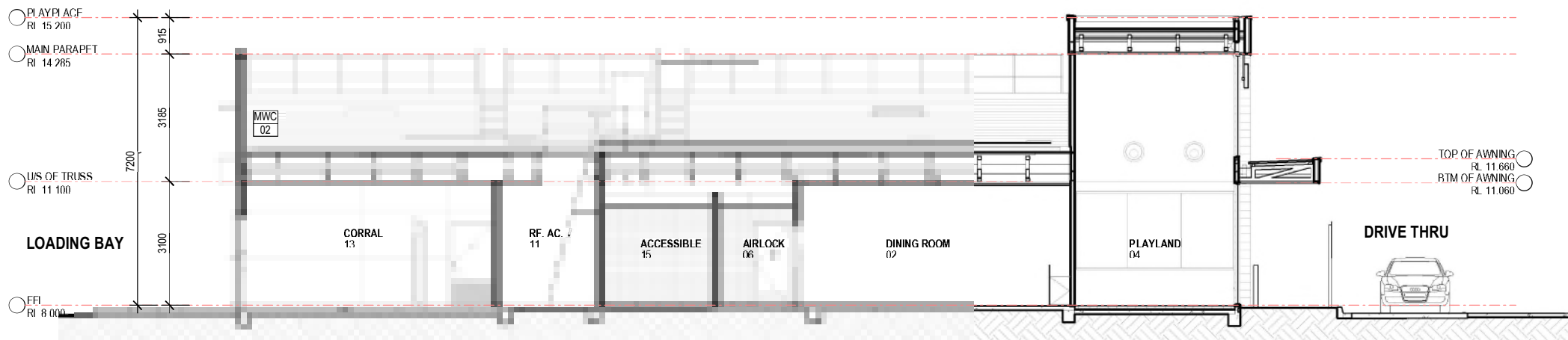
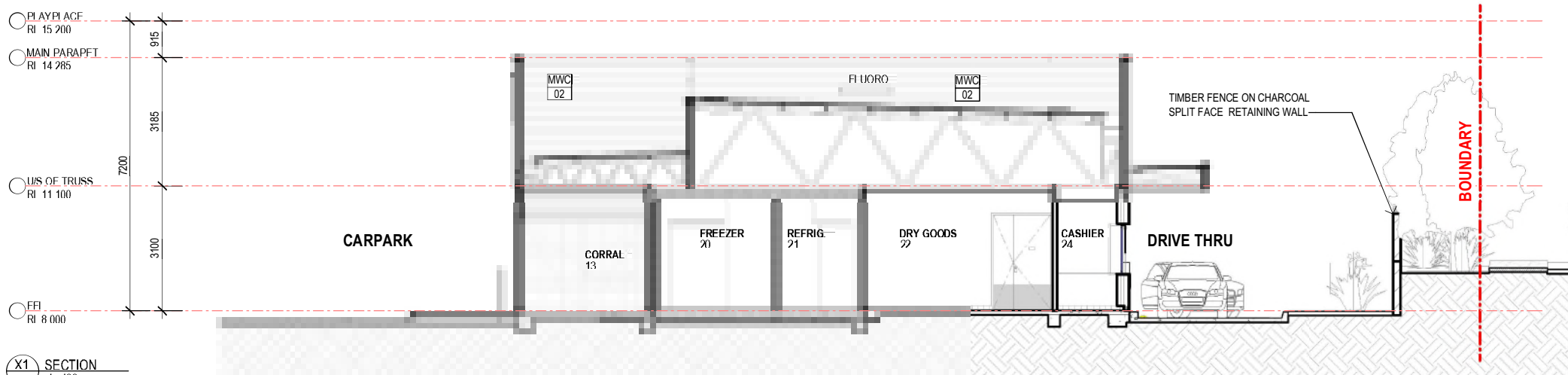
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Project  
McDonald's Balgownie

Location  
37 ROSEBERRY STREET BALGOWIE NSW 2803

FOR DA APPROVAL NOT TO BE USED DURING CONSTRUCTION		
Scale	Series	
1:200 @ A3	RIOM01 390	
Drawing	FI/FIVATION - STREETSCAPE	
Project Number	Drawing Number	Issue
2996	DA201	A





Revisions		General Notes		Drawing Notes	
B	FOR DA	12/12/24	MD	AS	
A	FOR REVIEW	02/12/24	MD	AS	
Issue	Description	Date	Chk	nt	work

North



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North Coast Projects: Art Director: Neil Webb 0418 16 688  
0418 16 688 168

Project  
Modonal's Balgownie  
Location  
37 ROSFRERY STREET BALGOWIE NSW 2813

FOR DA APPROVAL  
NOT TO BE USED DURING CONSTRUCTION

Scale  
1:100 @ A3  
Series  
R10M01 390  
Drawing  
BUILDING SECTIONS X1, X2  
Project Number  
2996  
Drawing Number  
DA300  
Issue  
B





Issue	Description	Date	Checked	Initials
C	FOR DA	12/12/24	MD	AS
B	FOR REVIEW	02/12/24	MD	AS
A	PRELIM	18/11/24	MD	AS

General Notes

Do not scale this drawing. The drawing shows design intent only. All dimensions to be checked on site prior to construction or production. Construction details to be confirmed by contractor/manufacturer. This is a computer generated drawing. Do not amend by hand. Figure dimensions are to be used. Contact architect for clarification if dimensions are not clear. All dimensions are in millimeters. All discrepancies and omissions on site must be reported to the architect for their comments or approval prior to commencing work.

Drawing Notes

North



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Project

McDonald's Balgownie

Location

37 ROSFRERY STREET BALGOWIE NSW 2813

Scale	Series	
@A3	ROMON 390	
Drawing	3D VIFW	
Project Number	Drawing Number	Issue
2996	DA1001	C



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# Appendix C – Noise Monitoring Charts and Assessment Background Levels Summary



**Table C21 Background Noise Monitoring Summary – Location L1**

Date	Measured Background Noise Level (LA90) dB ABL <sup>1</sup>			Measured dB LAeq(period)		
	Day	Evening	Night	Day	Evening	Night
Wednesday 16 October 2024	--	51	35	--	63	60
Thursday 17 October 2024	56	50	39	65	64	61
Friday 18 October 2024	57	51	40	66	64	65
Saturday 19 October 2024	56	50	40	65	62	60
Sunday 20 October 2024	55	48	40	67	63	60
Monday 21 October 2024	59	48	38	66	63	60
Tuesday 22 October 2024	56	50	40	65	62	59
Wednesday 23 October 20242024	56	50	40	64	63	60
Thursday 24 October 2024	58	52	39	65	64	61
Friday 25 October 2024	--	--	--	--	--	--
Location1 – RBL / Leq Overall	56	50	40	65	63	61

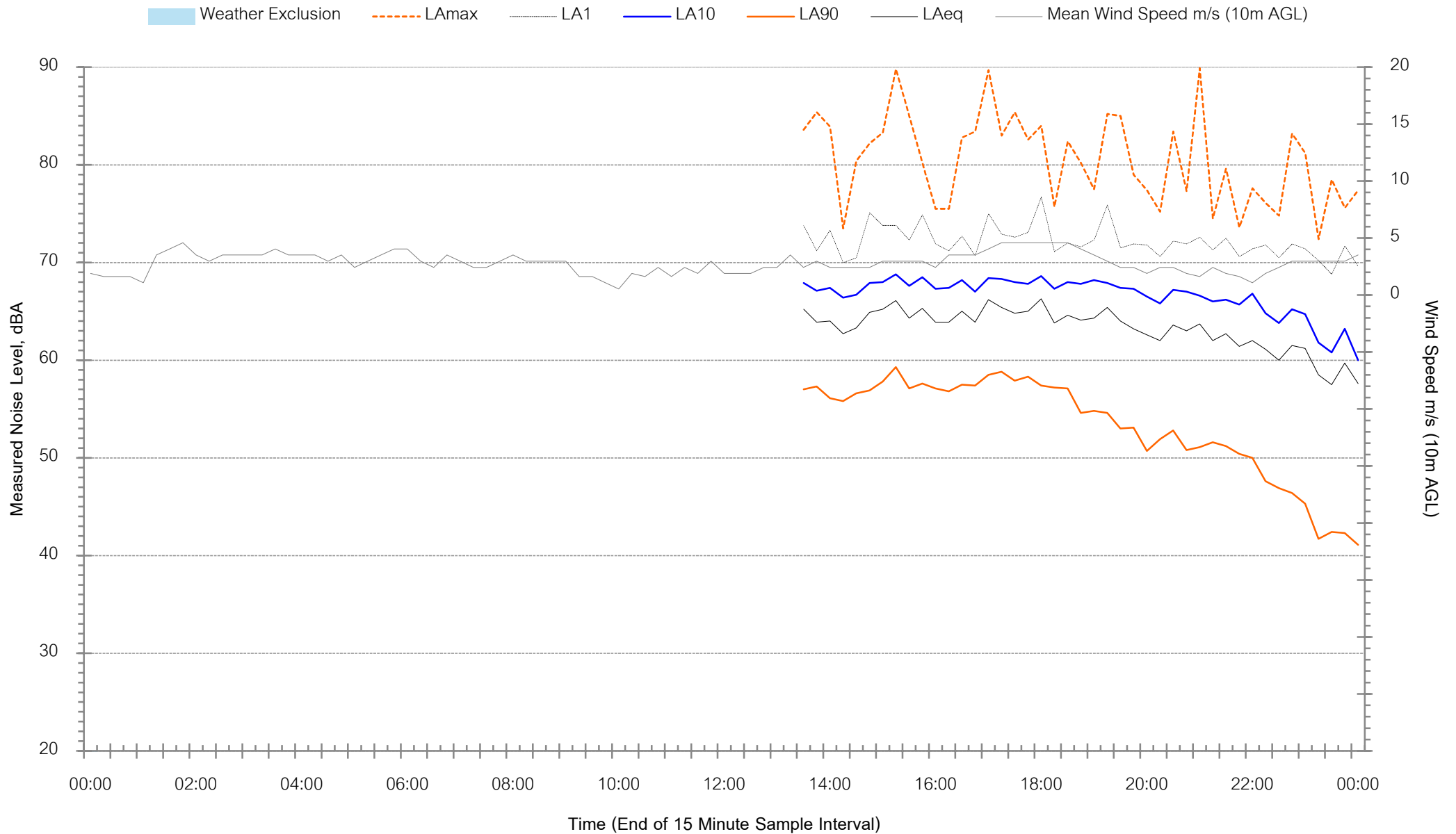
Note 1: Assessment Background Level (ABL) – the single-figure background level representing each assessment period day, evening, and night as per NPI Fact Sheet A.

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods



## Background Noise Levels

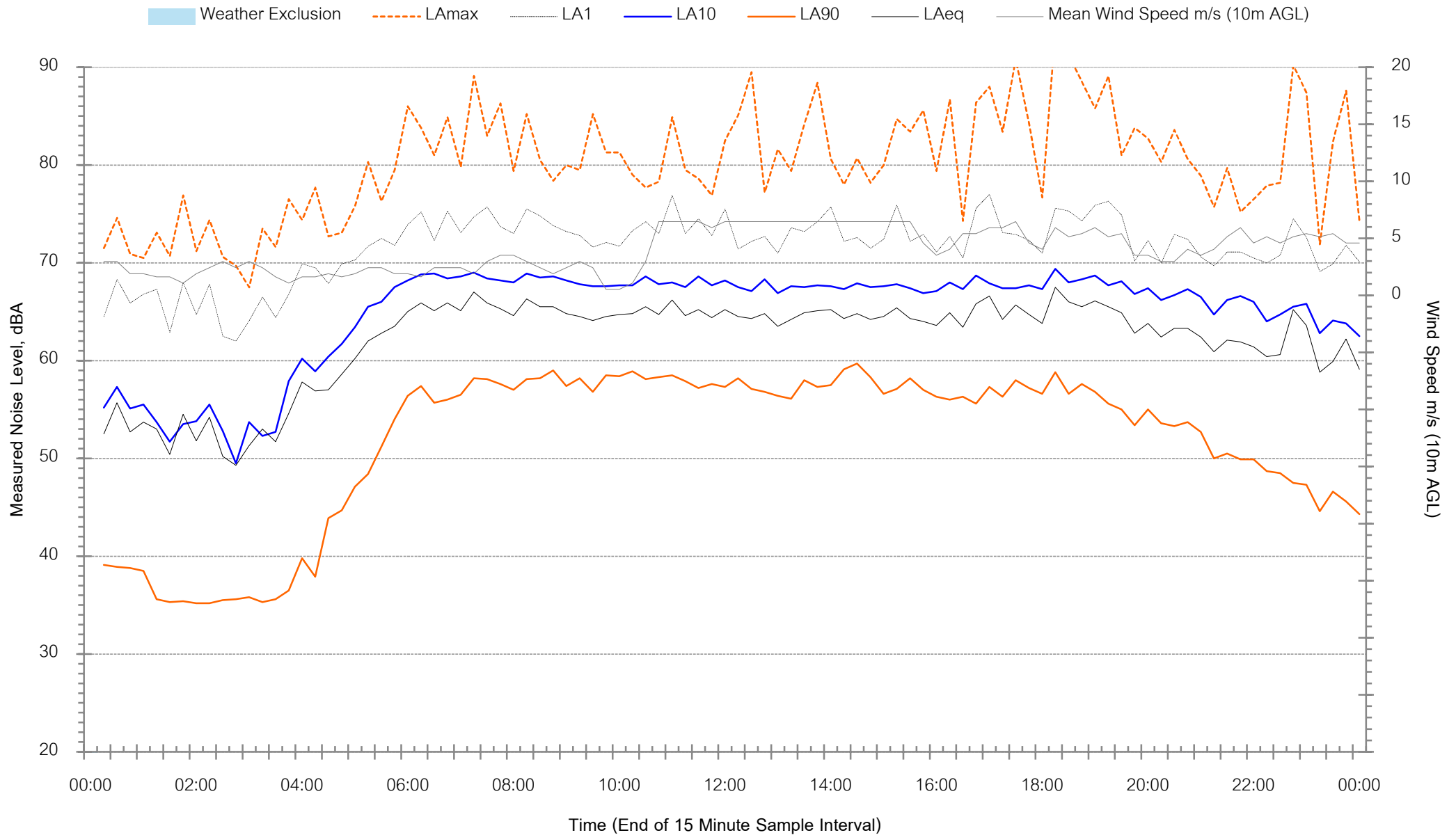
82 Kenneth Road, Manly Vale NSW - Wednesday 16 October 2024





# Background Noise Levels

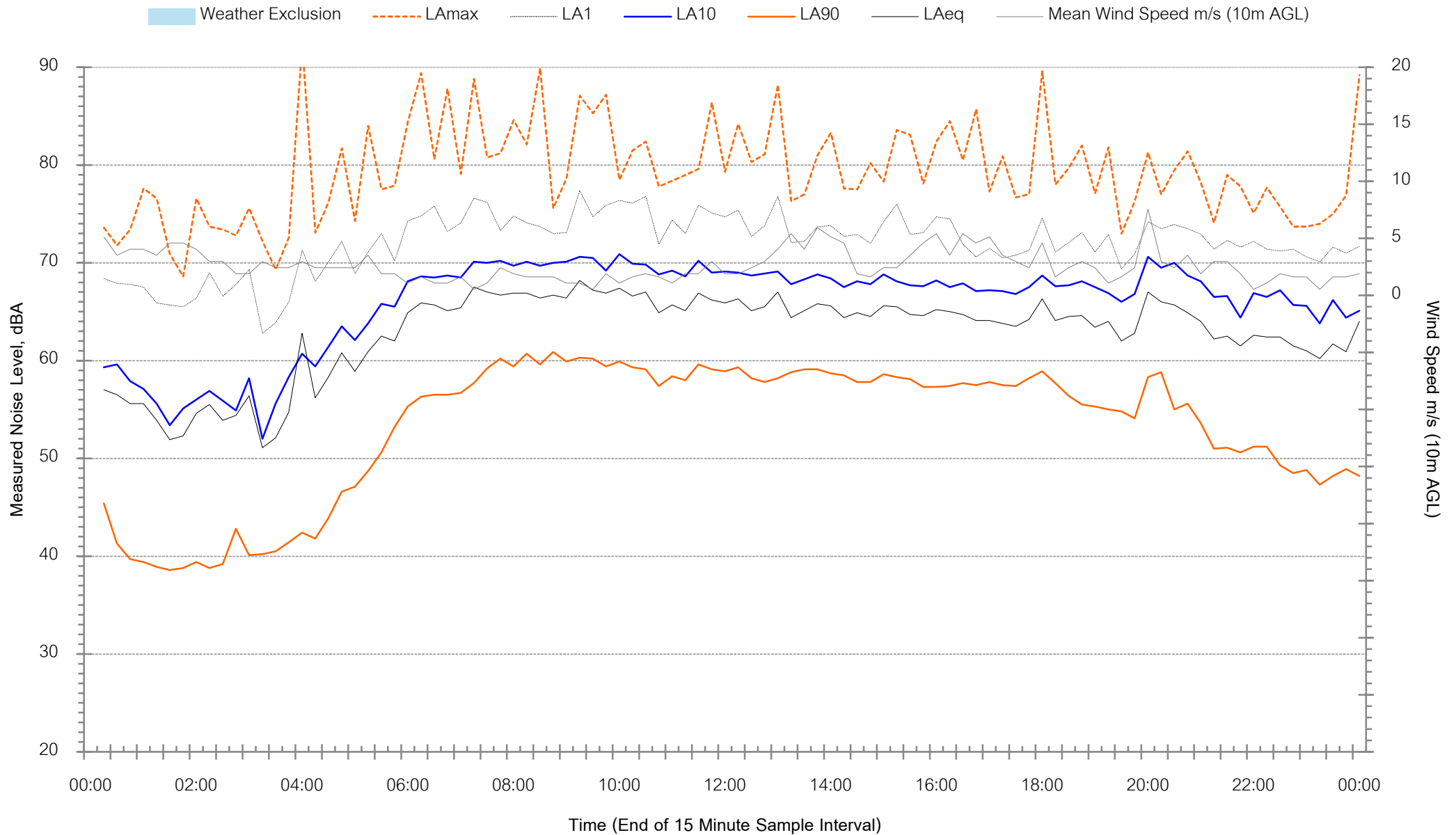
82 Kenneth Road, Manly Vale NSW - Thursday 17 October 2024





## Background Noise Levels

82 Kenneth Road, Manly Vale NSW - Friday 18 October 2024







## Background Noise Levels

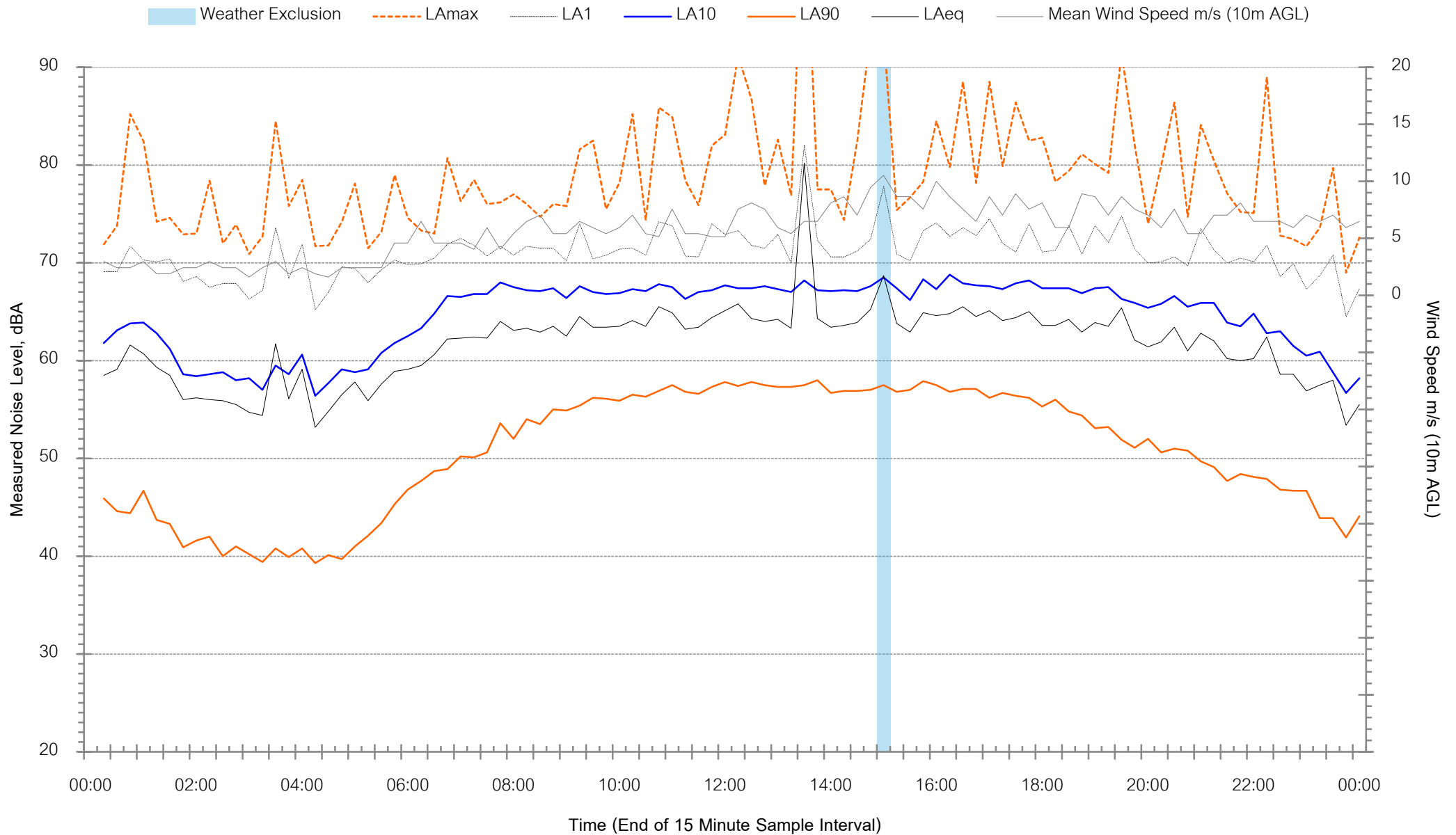
82 Kenneth Road, Manly Vale NSW - Saturday 19 October 2024





## Background Noise Levels

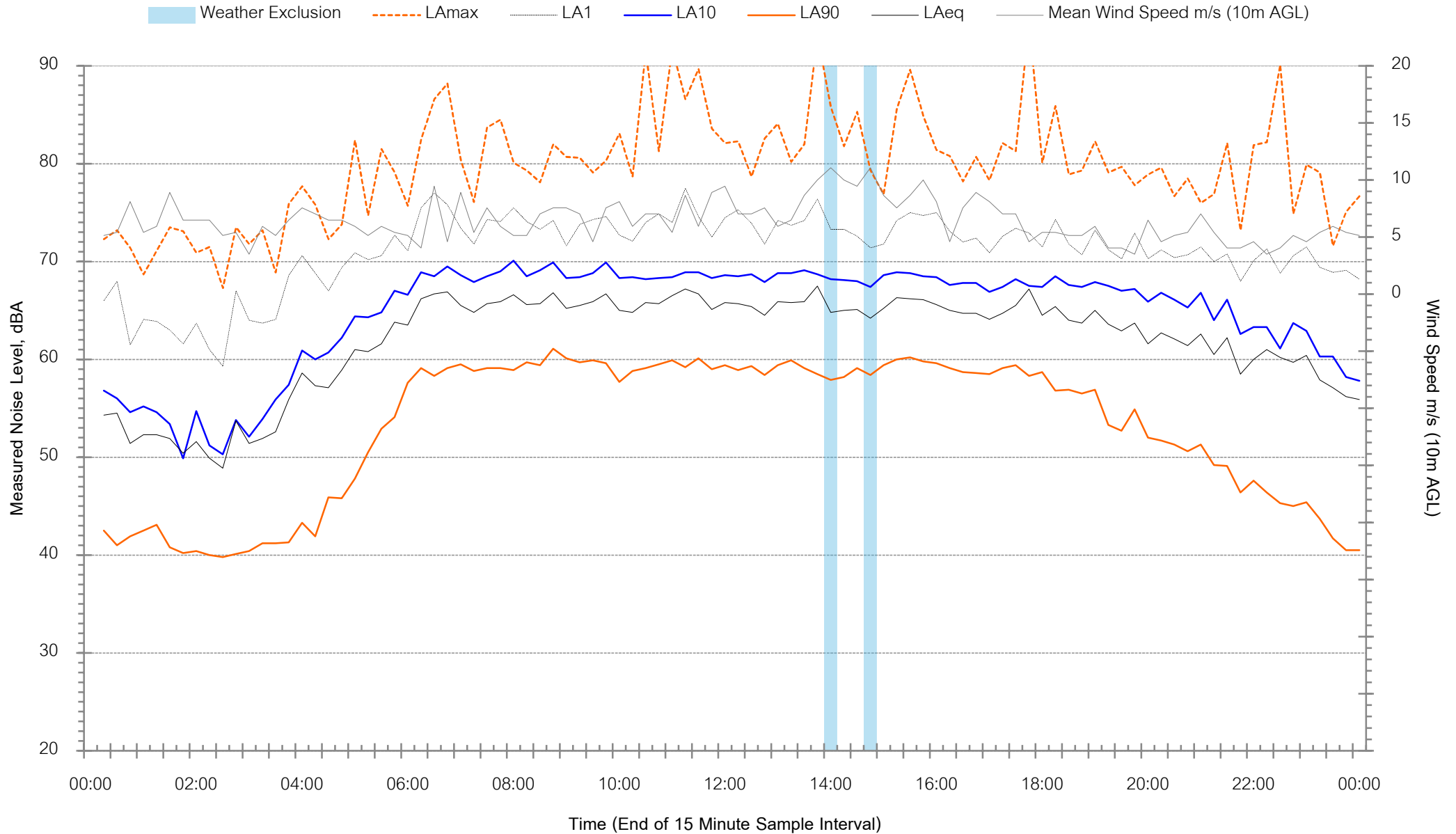
82 Kenneth Road, Manly Vale NSW - Sunday 20 October 2024





## Background Noise Levels

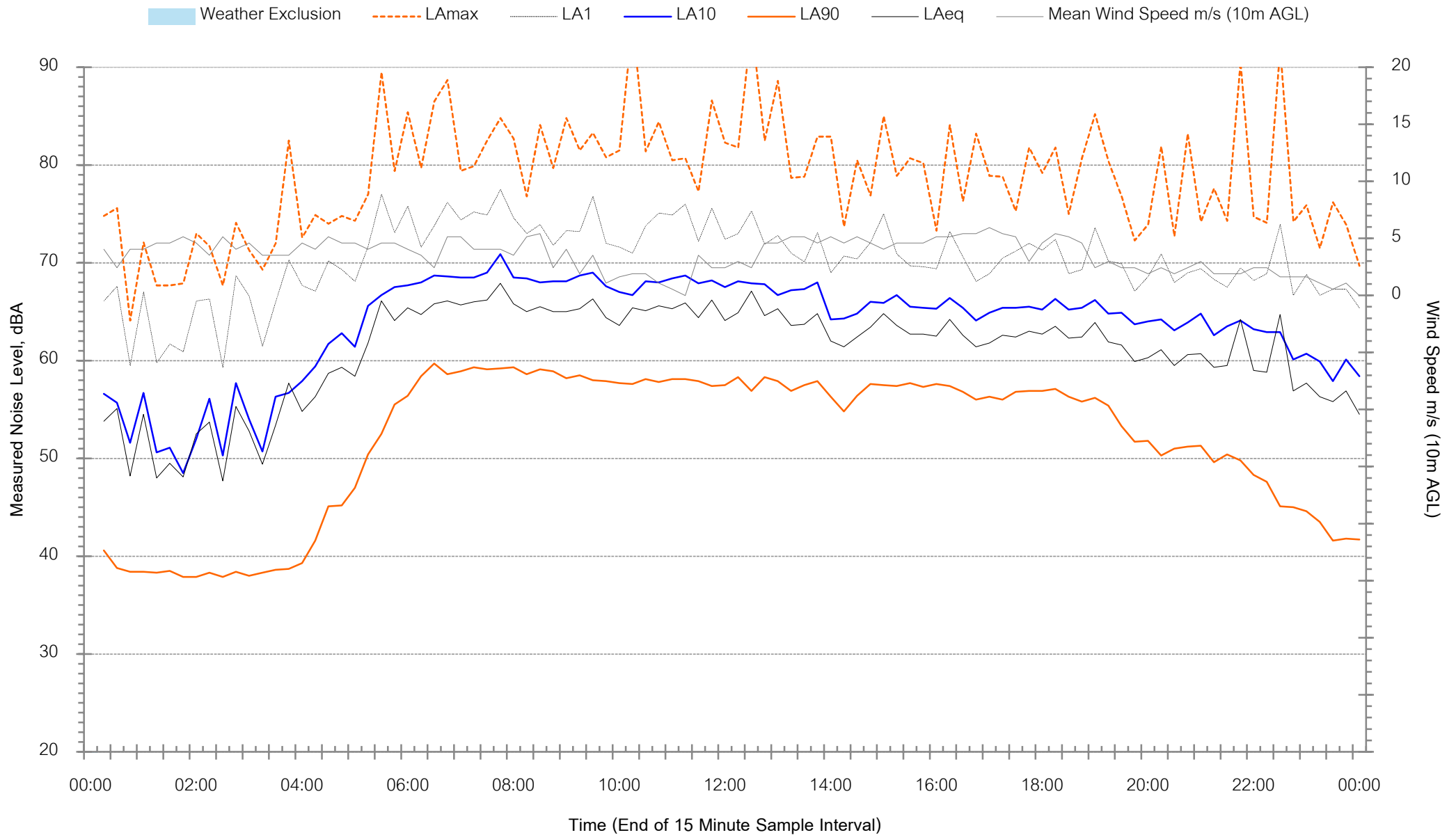
82 Kenneth Road, Manly Vale NSW - Monday 21 October 2024





# Background Noise Levels

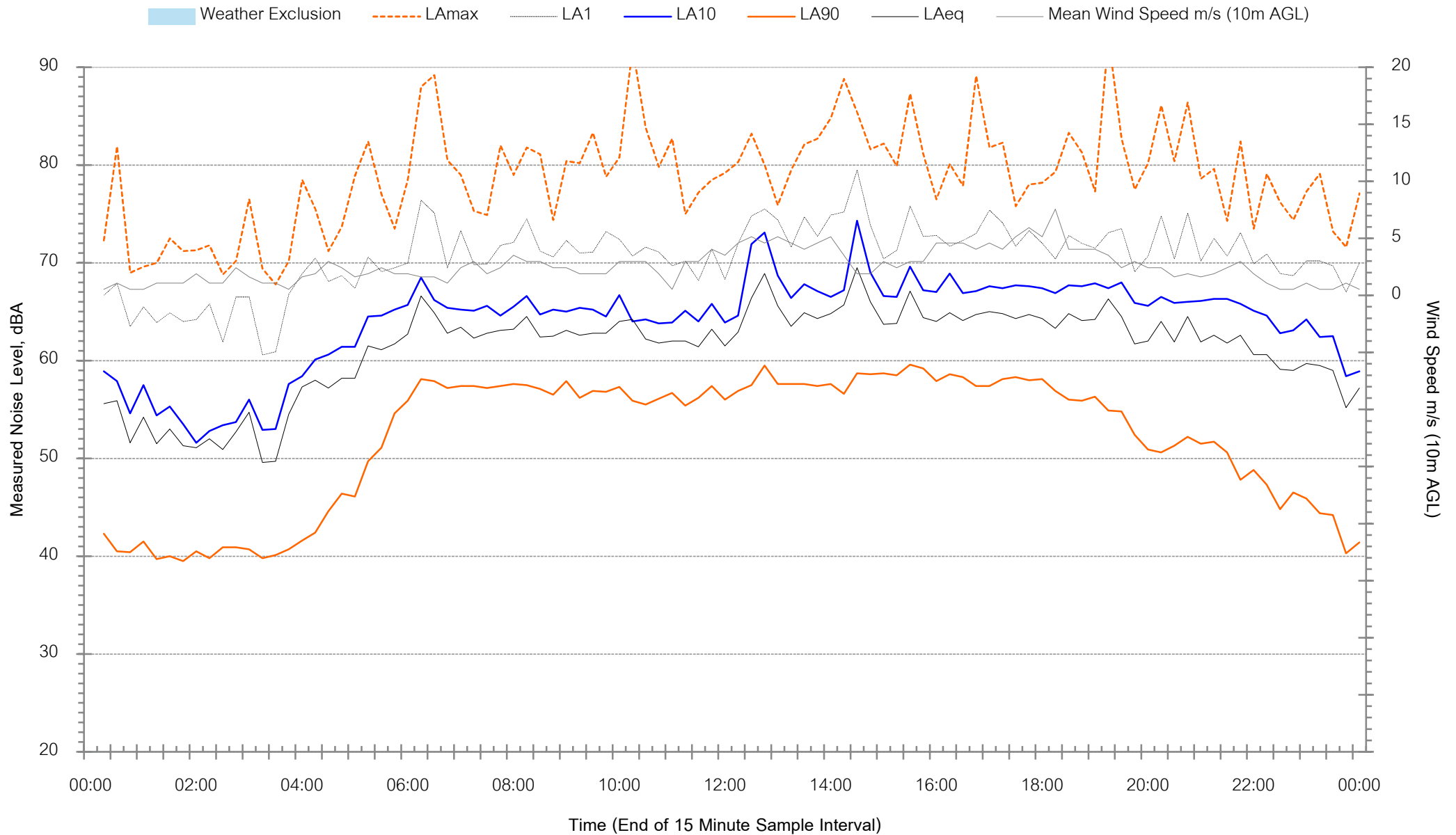
82 Kenneth Road, Manly Vale NSW - Tuesday 22 October 2024





## Background Noise Levels

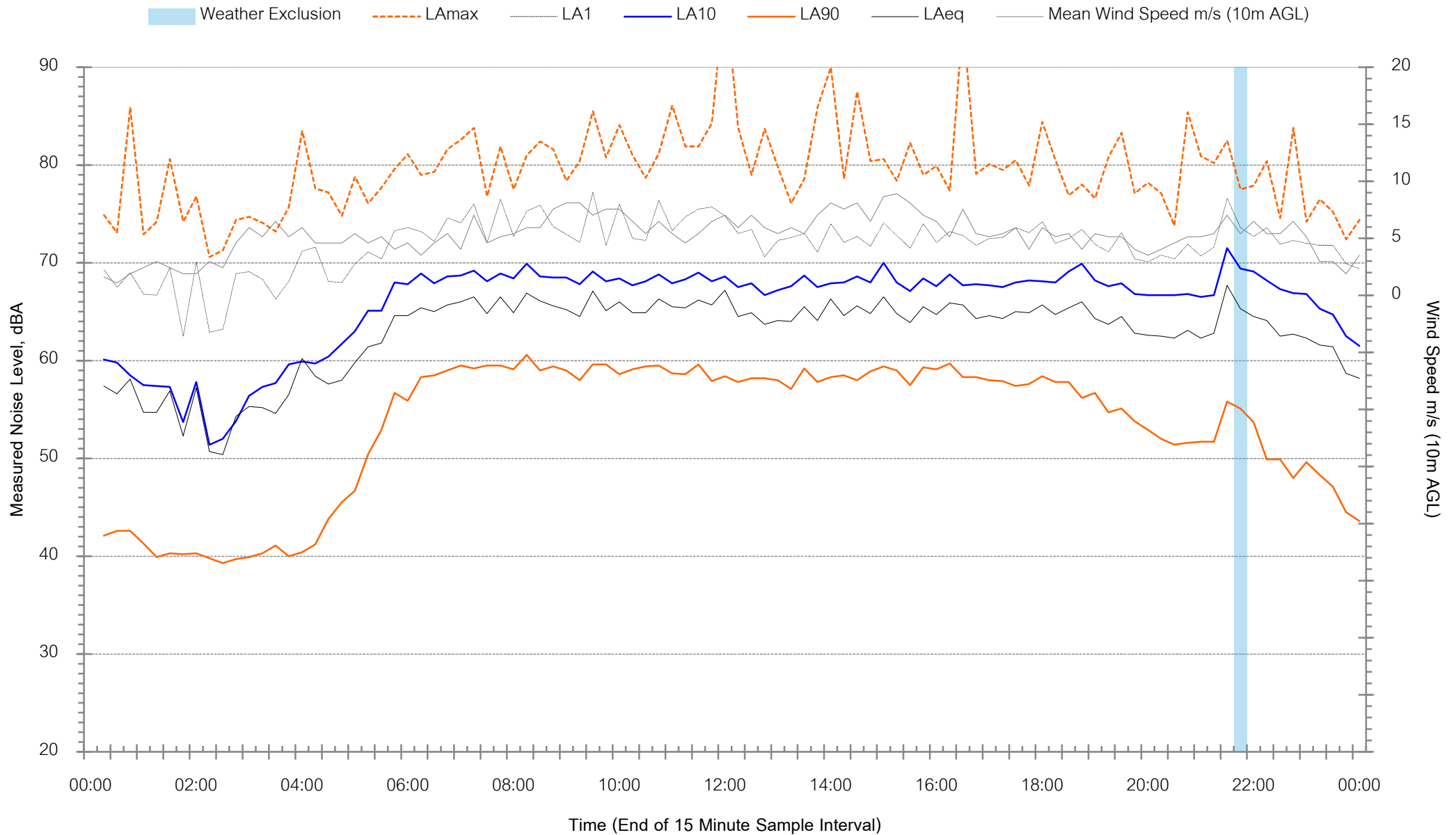
82 Kenneth Road, Manly Vale NSW - Wednesday 23 October 2024





## Background Noise Levels

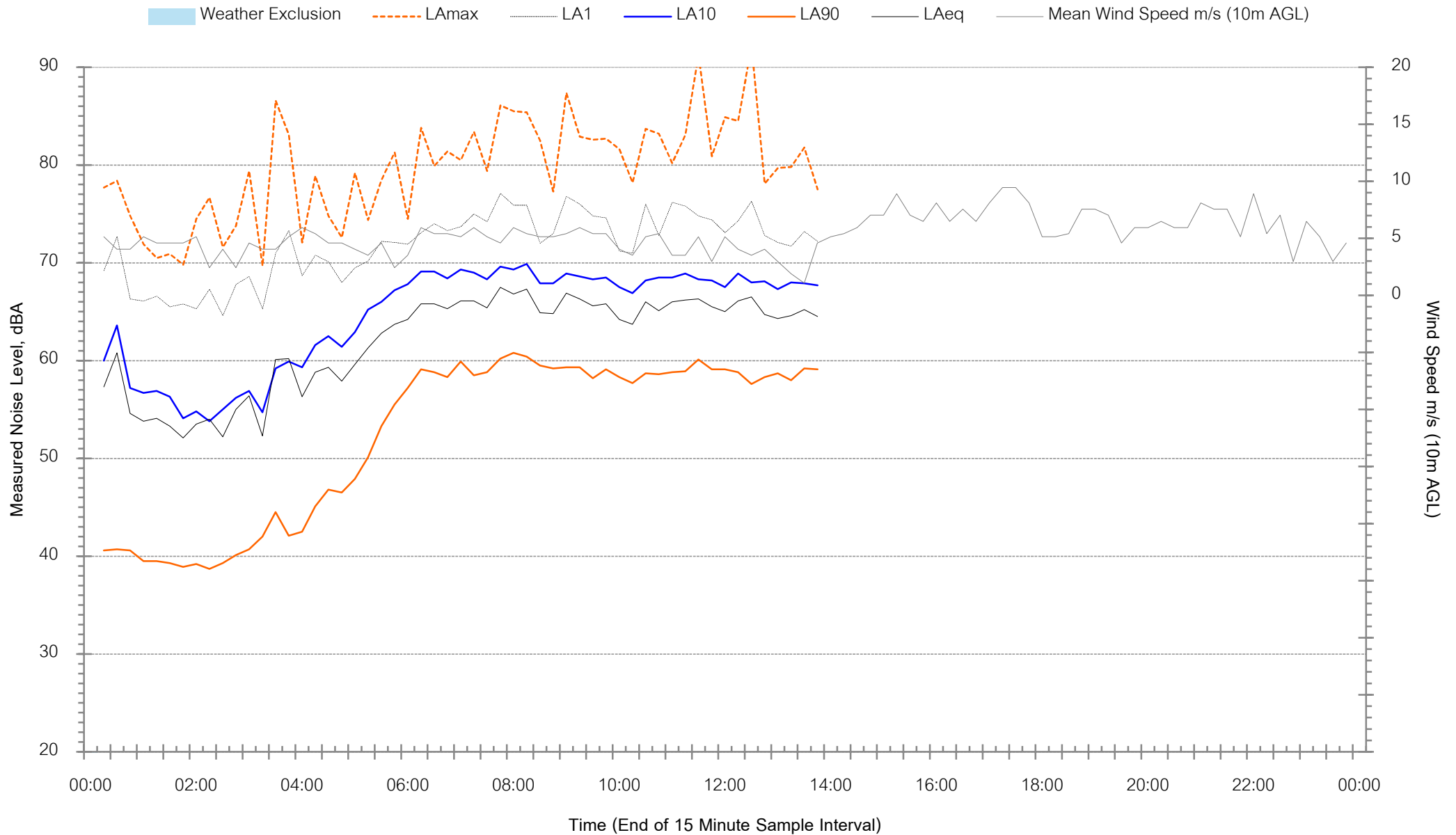
82 Kenneth Road, Manly Vale NSW - Thursday 24 October 2024





## Background Noise Levels

82 Kenneth Road, Manly Vale NSW - Friday 25 October 2024





# Appendix D – Determination of NPI Receiver Category



Table D22 - Determination of NPI Residential Receiver Category																		
Location/ Catchment			Measured RBL dB LA90(period)			Land Use Zone				Typical Existing Background Noise Levels			Rural Residential - an area with an acoustical environment that:		Suburban Residential - an area that has:		Urban Residential- an area with an acoustical environment that:	
						Table 2.3 NPI				Rural Residential - an area with an acoustical environment that:		Suburban Residential - an area that has:		Urban Residential- an area with an acoustical environment that:				
Period	RUS, RU6, RU1, RU2, R2, R3, R4, R1, R4, B1, RU4, R5, E4 E2, E3 B2, B4 Others					RURAL Daytime <40 Eve <35 Night <30	SUBURBAN Daytime <45 Eve <40 Night <35	URBAN Daytime >45 Eve >40 Night >35	is dominated by natural sounds.  having little or no road traffic noise  generally characterised by low background noise levels.  Settlement patterns would be typically sparse	local traffic with characteristically intermittent traffic flows  or with some limited commerce or industry.  evening ambient noise levels defined by the natural environment and human activity.	is dominated by 'urban hum' or industrial source noise  has through-traffic with characteristically heavy and continuous traffic flows during peak periods  is near commercial districts or industrial districts  has any combination of the above							
Commercial, Industrial	Rural	Suburban	Urban	Industrial														
Location 1	Day	56															✓	
	Evening	50															✓	
	Night	40															✓	

where urban hum means the aggregate sound of many unidentifiable, mostly traffic and/or industrial related sound sources

Assessment																	
Location	Rural	Suburban	Urban		Rural - RBL	Suburban - RBL	Urban - RBL	Rural - Description				Suburban - Description			Urban - Description		
Location 1	0	0	6		0	0	3	0	0	0	0	0	0	0	0	3	



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