

# MEMORANDUM



220575 - Narwee Parklands, Acoustic Response\_BW\_R2

**TO:** Marlon Zunac

**DATE:** 5 July 2023

**COMPANY:** Cyre Projects

**FROM:** Ben White

**Narwee Parklands Care Community**

**SUBJECT:** Acoustic Response to SSDA Submissions

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This report details the acoustic review and response to the acoustic items which have been raised in the response to the SSDA submission for the Narwee Parklands Care Community project.

This Addendum Acoustic Report has been prepared to support the Response to Submission Report for the Narwee Parklands Care Community State Significant Development Application (SSD-45024776) located at 59-67 Karne Street North, Narwee. The NSW Department of Planning and Environment (DPE) placed the Environmental Impact Statement and the accompanying technical documentation on public exhibition from 14 February 2023 until 13 March 2023. During the exhibition, a total of 22 submissions were received in response to the public exhibition of the EIS. These included submissions made by the State and Local Government agencies, authorities, as well as the general public.

Agency / Organisation	Agency Reference	Comment from Agency / Organisation	Section reference / Response
CBC Council	Item 54	Details of Cross Ventilation	Acoustic requirement for internal noise levels included in Section 5 Of the <i>Noise Impact Assessment</i> , including requirements for alterative sources of outside air.
Department of Planning and Environment	Item 86	Details of sightless to be provided	Details of the acoustic assessment and recommended mitigations for the common areas are included in Point 2 of this report and included below

Department of Planning and Environment	Item 87	GSA to provide sections and sightline analysis	Details of the acoustic assessment and recommended mitigations for the common areas are included in Point 3 of this report and included below
TfNSW	Item 99	Noise impact resulting from the M5 Motorway	Details of the assessment noise impact includes the traffic noise from the M5. Details are included in Section 5 of the <i>Noise Impact Assessment</i> .
Ausgrid Infrastructure	Item 101	Noise From Ausgrid Infrastructure	Compliance with the Ausgrid requirements from the operation of the infrastructure has been assessment and mitigations included in Section 6 of the <i>Noise Impact Assessment</i> .
NSW Health	Item 103	Noise impact from mechanical equipment	Details of required noise emissions are included in Section 4 and recommended mitigations are included in Section 6 of the <i>Noise Impact Assessment</i> .
Department of Planning and Environment	Item 108	Operational noise impacts	Details of required mitigations are included in Section 6 of the <i>Noise Impact Assessment</i>
Department of Planning and Environment	Item 110	Mechanical Services Noise Level	Details of required noise emissions are included in Section 4 and recommended mitigations are included in Section 6 of the <i>Noise Impact Assessment</i> .

This report provides a response to matters relating to acoustics and it should be read in conjunction with the EIS and all supporting documentation originally submitted with the SSDA. The table below identifies the specific matters raised by the relevant agencies and where these matters have been responded to.

As part of the response to the SSDA submission for the project a number of acoustic items have been raised which are discussed in the following point:

1. Item 54 – Urban Design – The layout of the project has been undertaken to provide for the potential noise mitigation from use of the driveway, common spaces and footpaths. The design of the building include separation including landscaping and balconies as well as the buildings external façade elements such that noise from the use of the driveway, common spaces and footpaths will be acoustically acceptable.
2. Item 86 – Visual and Acoustic Privacy – The design of the building includes acoustic separation of the communal terraces of levels 1 and 2 to the adjoining residential balconies. The screening includes a solid barrier which separates the communal terrace to the residential balcony, which will result in an acoustic barrier.

The communal terrace includes external doors to the internal communal areas, which can be closed in the event the internal areas are to be use for high noise generating activities such as amplified music or speech. Additionally, the use of the external communal terraces will include the potential for any high noise activities to be mitigated by staff of the facility such that noise impact to the adjoining residential dwelling will be mitigated.

3. Item 87 – Visual and acoustic privacy – The use of the communal terrace to the northern elevation will includes a landscaping buffer to the residential dwellings to the north of the site on Grove Avenue.

The use of the terrace will include normal residential use will include supervision from the staff of the facility to ensure any extraneous noise levels do not result from the use of the external terrace.

4. Item 99 – Recommended Condition, Noise and Air Quality – The assessment of potential noise impact from the M5 located to the south of the project has been undertaken as part of the projects Noise Impact Assessment, including the requirements of the NSW Department of Planning `Development Near Rail Corridors and Busy Roads – Interim Guideline and the NSW Government *State Environmental Planning Policy (Transport and Infrastructure) 2021* requirements.

Details of the project requirements (including the policies detailed above) are included in the projects revised *Noise Impact Assessment for SSDA* including Revision 2.

5. Item 101 – Ausgrid infrastructure – Noise resulting from the Ausgrid Infrastructure within the vicinity of the site has been undertaken and the acoustic impact on the proposed development will be acceptable. Potential noise emissions from the proposed electrical infrastructure includes the assessment using the Ausgrid predictions and the recommendations included in the projects *Noise Impact Assessment for SSDA* include those required to comply with the relevant criteria.
6. Item 103 – Additional Assessment – The projects *Noise Impact Assessment for SSDA* includes the assessment of noise impact of the project from surrounding environmental noise, including traffic noise resulting from the use of the M5 located to the south of the site. Providing the recommendations in the report are included in the design and construction of the project then compliance with all relevant acoustic requirements will be achieved.

The *Noise Impact Assessment for SSSA* includes the requirements for the building design and construction such that internal noise levels will be acoustically acceptable including compliance with the relevant noise levels of the Australian Standard AS2107:2016, the NSW Department of Planning `Development Near Rail Corridors and Busy Roads – Interim Guideline and the NSW Government *State Environmental Planning Policy (Transport and Infrastructure) 2021*.

Additionally, the *Noise Impact Assessment for SSSA* includes the noise emission criteria which building services noise is required to comply with. As part of the normal design and development of the project ongoing acoustic assessment of the proposed building services proposed for the site will be undertaken to ensure noise emissions from the project will comply with the Project Noise Trigger Levels as detailed within the *Noise Impact Assessment for SSSA*.

7. Item 108 – Operational Noise – Potential noise resulting from the use of the proposed café to residential receivers to the north of the site on Grove Avenue will include the following acoustic mitigations:
  - a. The use of the external areas of the café should not include the use of amplified music.
  - b. There is a solid barrier located to the north of the café (and separating the residence on Grove Avenue) which will result in noise mitigation from the use of the café.
  - c. The use of the café will include supervision from the staff of the facility such that activities resulting in excessive generation of noise can be prevented.
  - d. The operational conditions of the café will include the following:
    - i. Hours of operation of the outdoor seating to the outside areas will be 7am to 7pm on any day of the week.
    - ii. Patrons numbers which will use the café will include up to 20 patrons.
    - iii. There will be no playing of amplified noise for entertainment levels will be played within the café, background noise levels only are to be played in the internal areas of the café.
    - iv. No playing of amplified music to be played on the external areas of the café.

8. Item 110 – Operational Noise – The *Noise Impact Assessment for SSDA* includes details of the required Project Trigger Levels which the operation of building services, including roof top plant and equipment are required to comply with.

A preliminary assessment of the proposed roof top plant proposed for the project has been undertaken and acoustic screen to the equipment located on the roof has been recommended. The recommended acoustic mitigation to the equipment on the roof includes a solid barrier (constructed from a material such as FC sheet, sheet metal or the like) which includes a height equivalent to that of the proposed equipment to be located on the roof.

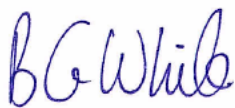
The ongoing design of the project will include the acoustic assessment of noise levels resulting from the operation of the projects building services, including detailed acoustic mitigation to mechanical services where required.

Based on the proposed design of the project the noise levels resulting from the operation of plant and equipment will be acoustically acceptable.

As part of the acoustic review of the comments received as part of the SSDA submission a revised *Noise Impact Assessment for SSDA* revision 2 has been provided for the site.

If you have any additional questions, please contact the author below.

Regards



Ben White  
Director

Pulse White Noise Acoustics