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Opal Aged Care C/- Stephen Edwards Constructions 140 Wicks Road Macquarie Park NSW 2113

17 June, 2021 Refer: 7036-6.1L

Attention: Mr Peter Simon

Contact: PSimon@stephenedwards.com.au

184 GARDEN STREET, WARRIEWOOD, NSW SECTION 4.56 MODIFICATION APPLICATION

Stephen Edwards Construction, on behalf of Opal Age Care, has engaged Day Design to provide acoustic advice pertaining to the proposed Section 4.56 Modification Application (s4.56) to amend the outdoor landscape area of Stage 2 of the Opal Aged Care development at 184 Garden Street, Warriewood, NSW.

The s4.56 includes the following changes to the approved design:

- Shift Courtyard 4 and 5 pergolas towards the boundary;
- Alter fencing to open up accessible areas; and
- Add egress to the northern façades of the western and central building wings.

Day Design has been advised that the use of Courtyards 4 and 5, and the terraces and pergolas within, is for typical residential purposes, ie reading a book/newspaper, having a tea or coffee during the day time (7.30 am to 6 pm). The Courtyards are not proposed to be used for organised social events that may include a large group of people conversing or amplified music being played.

The approved and amended layouts are shown in the architectural ground floor plans provided by Group GSA for Project No 160760, attached Appendix A (dated 28 April 2021) and Appendix B (dated 28 May 2021), respectively.

Acceptable noise limits have been derived from approved Development Application acoustic report prepared by Acoustic Logic Pty Ltd's titled *DA Acoustic Assessment* report (DAAAR), Document Reference 20170076.1/2303A/R1/RL, dated 23 March 2017, for noise emissions associated with the use of Opal Age Care at the nearby residential receivers.

The Project Noise Emission Criteria (PNEC), established in the DAAAR for noise emissions associated with the development are shown below:

• **44 dBA** during the day.





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The calculated noise level from two people talking normally (total sound power level of 66 dBA) in the approved and proposed locations of the pergolas are as follows:

Approved location 34 dBA; and

Proposed location 40 dBA.

Both of the locations above comply with the PNEC. The calculations above include a reduction for distance attenuation only. No allowances for acoustic screening provided by boundary fences have been included in the calculations above, which would further reduce the predicted noise level at the receiver location.

Based on the amended location of the pergolas, the altered fence locations and egress doors, intended use and times of use, the change to the noise impact at the neighbouring properties are expected to be negligible.

Considering the above, we are of the opinion that the Section 4.56 Modification Application to amend the outdoor landscape area of Stage 2 of the Opal Aged Care development at 184 Garden Street, Warriewood, NSW, will not adversely impact on the acoustic amenity of the neighbourhood, and should be considered acceptable from an acoustic perspective.

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Adam Shearer, BCT (Audio), MDesSc (Audio and Acoustics), MAAS Senior Acoustical Consultant for and on behalf of Day Design Pty Ltd

AAAC MEMBERSHIP

Day Design Pty Ltd is a member company of the Association of Australasian Acoustical Consultants, and the work herein reported has been performed in accordance with the terms of membership.

Appendices:

• **Appendix A** Approved Ground Floor Plan – A-2000, Issue 7

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Appendix B Proposed Amended Ground Floor Plan – DA-2000, Issue D



The undersigned hereby certifies that this Report has been checked and approved in accordance with our Quality Management System.

Date: 17/6/21

Ref: 7036-6.1L 17-Jun-21





