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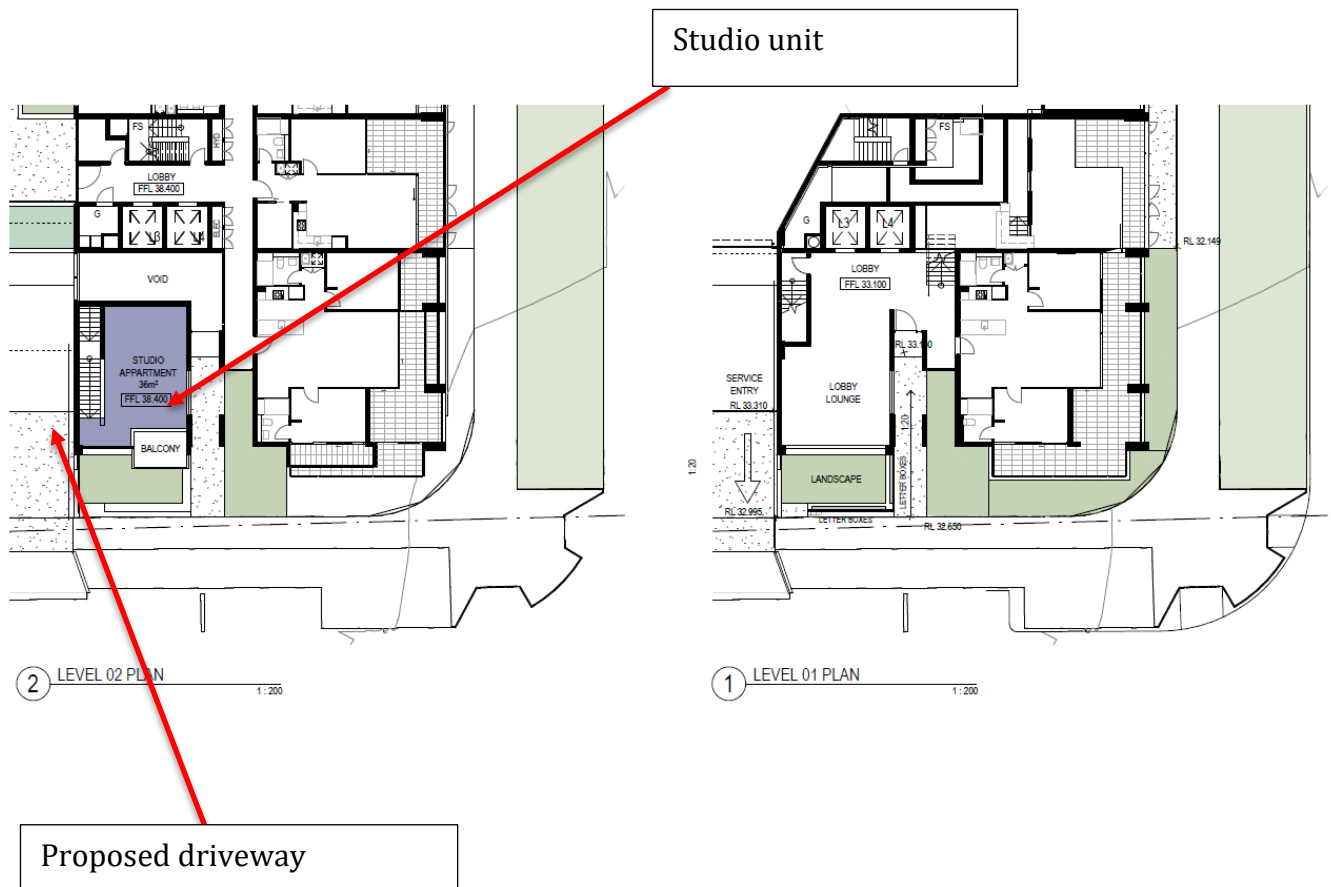
Melrose Park, Lot AB, 657-661 Victoria Road & 4-6 Wharf Road – Noise Impact to Unit 2101

This report details the acoustic review and assessment of studio unit located on level 2 of the proposed Melrose Park, stage 4 development and the potential for noise impact from the use of the driveway includes trucks.

The studio unit is located within proximity to the proposed driveway to be used by trucks as detailed in the figure below.

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As part of council’s review of the proposed project comments regarding the potential for noise impact to unit 2101 have been received, which include the following:

Council Comment: The proposal includes a unit directly adjacent the service vehicle entrance including a window to it. The acoustic report does not consider this unit specifically. This unit should be converted to retail or separated from the driveway by at least 3m and specifically considered by the acoustic consultant.

And:

4H Acoustic Privacy: “... The proposal includes a unit (#2101) directly adjacent the service vehicle entrance including a window to it. The ADG recommends at least a 3m separation between units and driveways. Council’s Acoustic consultant is of the view that the applicant’s acoustic report does not adequately demonstrate internal noise levels within the unit will be acceptable subject to the treatment proposed. The unit is also one of the units which receives no direct solar access. As such, the unit is considered to have unacceptable amenity on merit. A condition is included recommended that the unit be deleted.

Based on the location of the unit 2101 and the potential for noise impact from the use of the driveway including movement of trucks and the like an assessment of noise impact has been undertaken including the potential for treatment of the unit to ensure a suitable internal acoustic amenity has been undertaken.

The following acoustic treatments are recommended to ensure the amenity and the dwelling:

1. Install upgraded external glazing to the proposed openings to ensure appropriate treatment to the dwelling.
2. Glazing should include a minimum 12.38mm laminated glazing including a minimum performance of the glass and frames of Rw 36.
3. An openings within the façade of the unit should be acoustically treated such that the acoustic performance and the building constructions are maintained. This could include lined ductwork behind any gills or opening required for ventilation.


Based on the location of studio unit (Unit 2101) being situated close to the driveway and the continual use of trucks, the proposed treatments detailed in this report will reduce internal noise levels within the dwelling to ensure a suitable acoustic amenity including internal noise levels which are compliance with the relevant acoustic standards including the Australian Standard AS2107:2016.

By adopting the recommended treatments in this report, the resulting internal noise levels within unit 2101 will be acoustically acceptable and include compliance with the relevant internal noise levels including the following:

1. Australian Standard AS2107:2000 *Acoustics - Recommended design sound levels and reverberation times for building interiors*.

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

Regards



Ben White
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