

ACOUSTIC TECHNICAL NOTE



Reference:	
From:	Torben Andersen
Date:	28 July 2023
Project:	3-5 Bedford Row
Subject:	Report Addendum

1.0 INTRODUCTION

RBA Acoustics have undertaken detailed background noise measurements of the prevailing noise climate around the proposed redevelopment site at 3-5 Bedford Row, London. The results of the measurements were used to undertake calculations of the noise emissions from new mechanical services plant associated with the scheme.

Details of the measurements and assessment are contained in our Plant Noise Assessment Report 12161.RP03.PNA.0 dated 11 May 2023 which demonstrated that, subject to introduction of mitigation measures as set out in the report, compliance with the requirements of London Borough of Camden would be achieved.

Minor variations to the scheme have been proposed subsequent to the issue of our 11 May 2023 report and these include an infill extension to the south courtyard at the basement level. As a result, some of the lightwell plant will be raised and hence move marginally closer to receptor locations and hence we have undertaken an updated assessment of the proposed amendments.

2.0 PROPOSED AMENDMENTS

The originally submitted scheme included a basement level courtyard area which was to be used to contain mechanical services plant (namely an AHU and 4No. VRV condensing units) plus a courtyard garden.

The current proposed seeks to extend the office areas into the lightwell (with only a small amount of basement courtyard space) with the 4No. VRV units now being situated on the roof of the infill section.

As a result the VRV units will now be elevated by approximately 3m and hence correspondingly closer to the 1st floor windows of the adjacent commercial building at 2 Bedford Row.

There are no proposed amendments to any items of plant other than those within the lightwell area.

3.0 MITIGATION MEASURES

Our previously issued (May 2023) plant noise assessment made a series of recommendations for mitigation to the plant to ensure compliance with the requirements of London Borough of Camden. These can be summarised as follows:

- Condenser exhausts are ducted to rooftop level to separate the intake and exhaust air
- Appropriate attenuation is required within this ducting (see Table 8 of the May 2023 report).
- All items of plant (including the condensers) are to be isolated from the supporting structure by means of spring isolators or rubber footings.

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