



PROJECT TECHNICAL MEMORANDUM

JOB TITLE : Heyford Park
PROJECT NO : 23195
DATE : 14 September 2018
FROM : John Gibbs
ISSUED TO : Cat Vince
C.vince@dorchestergrp.com

Hann Tucker Associates

Consultants in Acoustics Noise & Vibration
Duke House 1-2 Duke Street Woking Surrey GU21 5BA
(t) +44 (0) 1483 770595
(e) enquiries@hanntucker.co.uk
(w) hanntucker.co.uk

Directors:

Stuart G Morgan CEng MIMechE MCIBSE FIOA (Chairman)
Simon R Hancock BEng(Hons) CEng MCIBSE FIOA (Managing)
John L Gibbs MIOA(D) MSEE CEnv
John R Ridpath BSc(Hons) MIOA
Andrew D Fermer BSc(Hons) MIOA
Andrew G Jameson BSc(Hons) MIOA

Associates:

Adam Kershaw BSc(Hons) MIOA
Gareth Evans BSc(Hons) MIOA

RE: VILLAGE CENTRE NORTH

- 1.0 The new village centre north is proposed to comprise two blocks A & B, with commercial tenants at ground floor. Whilst these commercial activities are provided for the benefit of local residents it is recognised there is potential for the activities to produce noise which could have an adverse impact on local residents.

The planning permission for the development includes the following condition.

For each phase or sub phase of the development, no works shall be undertaken until such times as a detailed scheme of noise assessment and possible sound insulation measures for the residential units (including a timetable for its implementation) has first been submitted to and approved in writing by the Local Planning Authority within. That scheme shall be implemented in accordance with the approved details.

The following document and attachments sets out the noise control strategy for controlling noise impact from the commercial activities within the new village centre north upon neighbouring residential property.

- 2.0 The attached draft form of words for inclusion in Tenants Handbook regarding acoustics within Appendix A details our recommendation for controlling commercial noise.

It is recommended all future commercial tenants comply with the recommendations within Appendix A, to prevent adverse noise impact upon residential neighbours.

See attached Appendix B for details of existing background noise levels within the attached Environmental Noise Survey Report 23195/ENS1.

- 3.0 The most significant sources of noise are likely to be external plant and noise from deliveries/servicing. Prior to commencement of the development actual tenants proposals are



not available for assessment. However, the proposed Landlords conditions in Appendix A detail how future noise emissions will be controlled.

To achieve the Landlords criteria external plant will be suitably located and attenuated, using a combination of screen enclosures and induct attenuators as necessary.

The Table 3.0 below summarise the typical noise at 3m from rigid delivery lorry with rear tail lift and goods unloaded on roll pallets/cages. This form of delivery is expected to produce the highest noise levels, delivery from smaller vehicles should produce lower noise levels.

Table 3.1

Source Description	Sound Pressure Level SEL (dB) at 3 metres for Single Event
Lorry driving in and stopping	84.7
Lorry door slam	65.7
lowering tail lift	65.3
Raising tail lift	72.7
lorry shutter opening and removing support bars	77.6
moving roll cages inside lorry	77.3
loading tail lift with two roll cages	74.4
lowering tail lift	64.2
lowering tail lift ramp and wheeling 2 roll cages off into store	89.3
wheeling four empty roll cages from inside the store to outside	90.7
loading empty roll cages onto tail lift	77.3
Raising tail lift	72.7
Moving empty roll cages from tail lift into the lorry and securing support bars	72.6
Closing lorry shutter	71.1
lowering tail lift	64.2
Raising tail lift	72.7
Door slam	75.0
Lorry driving away	82.2
= 59dB LAeq,1hr	

Noise levels from the delivery activity above have been assessed in accordance with BS4142:2014 in Table 3.2 below, based upon a distance of 20m to the nearest residential property.

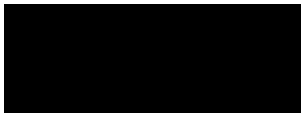


Table 3.2

Specific Sound Level @ 20m	37dB LAeq,1hr
Acoustic feature correction	+3dB (impulsivity)
Rating level	40dB
Typical daytime background level	38dB LA90
Excess over background level	+2dB

The above demonstrates noise impact from delivery activities based upon a large delivery truck with roll caged goods would have a worst case impact of +2dB. This impact is considered to be low in the context of the number of daily deliveries likely to be required and considering the Village Centre is for the benefit of local residents.

Yours sincerely



John Gibbs
for HANN TUCKER ASSOCIATES