

# TECHNICAL NOTE - LIGHTING

DATE: 08/10/2021

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**TO:** NICK YEOMANS

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**FROM:** KELLY SMITH (DESIGNS FOR LIGHTING LTD)

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**SUBJECT:** 3658 – PORTONS HOTEL

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This technical report is to review the lighting at the Porton Hotel with reference to the possible obtrusive light experienced by the proposed dwellings at the back of the hotel.

The hotel is within the Wiltshire Local Authority and appears to be equidistant between two National Landscapes (formally Areas of Outstanding Natural Beauty (AONB)) – Cranborne Chase & West Wiltshire Downs and North Wessex Downs.

The Wiltshire Core Strategy was consulted and Core Policy 51 – Landscape states that:

*‘... proposals will need to demonstrate that the following aspects of landscape character have been conserved and where possible enhanced through sensitive design, landscape mitigation and enhancement measures:*

*...vii. Tranquillity and the need to protect against intrusion from light pollution, noise, and motion.’*

A survey was carried out by a third party on the area to determine what, if any, obtrusive light was affecting the Proposed Development. This was carried out on 25 September 2024 at 8pm, with astronomical twilight on this date from 8:09pm to 8:49pm and the meter used was an Ethos H12B-K00559 (calibration unknown). The readings were taken as shown in **Figure 1** and taken both horizontally and vertically at a height of 1.0 m. All these readings were supplied by Pyramid Services and were recorded at zero therefore the soffit lighting, which is indirect (points upward and reflects off a protrusion) can be seen to be at a very low output. The Porton Hotel also has five low level wall lights with a tinted protector which are positioned at a low mounting height and which therefore do not have an impact on the obtrusive light, as these are typically low output and primarily direct light onto the ground.

The lighting is also set to switch off at 11pm which is usually recognised as curfew for the principals of obtrusive light. The acceptable obtrusive light levels pre-curfew are higher than those acceptable post-curfew.

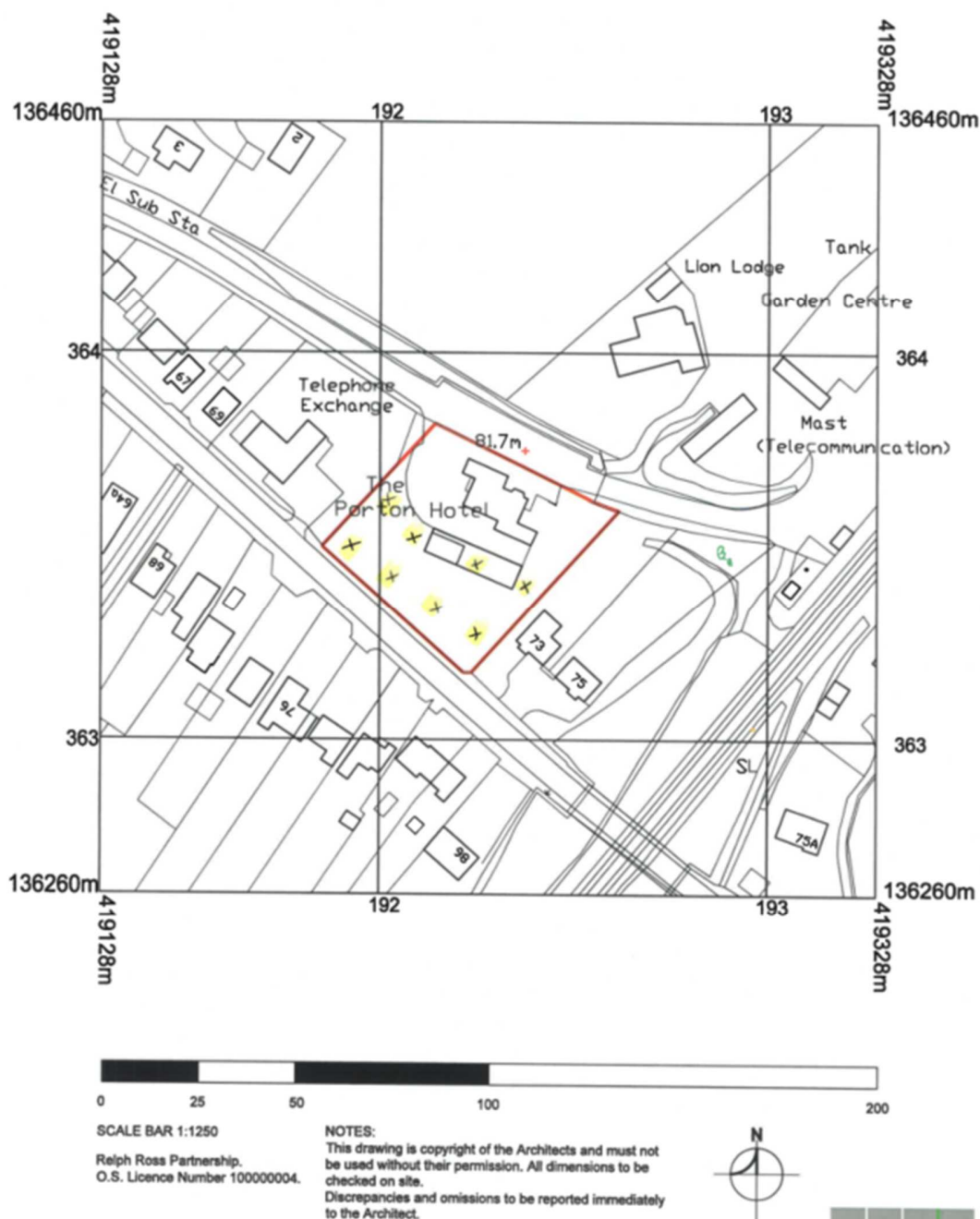


Figure 1 – Position of light survey readings

The hotel is currently lit only with soffit lighting at the top of the building and as the new dwellings only have one bedroom window in the direction of the hotel (North-east), but at a lower elevation, this will limit any light intrusion experienced. The other side of the new dwellings will face an existing residential area across Winterslow Road (South-west), the road being currently lit with LED luminaires at an estimated 6 m mounting height. With existing housing to the North-west and South-east (partially blocked with foliage), it is therefore unlikely that the proposed dwellings will significantly affect the surrounding area in an adverse way and in turn they are unlikely to be adversely affected by the hotel due to the low level of lighting from the soffit, the layout of the dwellings, the difference in elevation and the light shut-off time of 11pm.

This is in keeping with the Wiltshire Core Strategy that the landscape character has been preserved and that light pollution is not a significant nuisance.

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