

EXTERNAL LIGHT MANAGEMENT STATEMENT

This statement is prepared to assist with the discharge of outline planning permission relating to location and control of external lighting at the proposed New Accommodation Pods within the Kitchen Gardens at Groll Estate Country Park and the new and existing Car Parking areas. The Site is located to the North, East of Neath town centre in South Wales.

The development consists of multiple single storey accommodation pods and associated store and cleaning facilities.

The existing site is home to the existing Groll Park Kitchen Gardens and ecological area primarily comprising scattered trees and scrub and Groll Park Pond. The surrounding topography generally consists of Greenland and a housing site to the West.

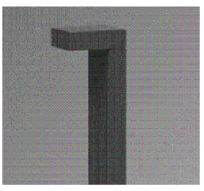
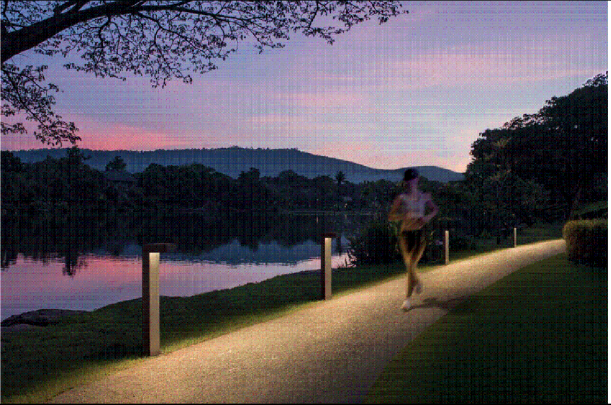
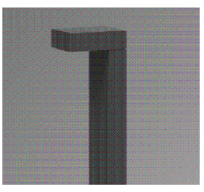
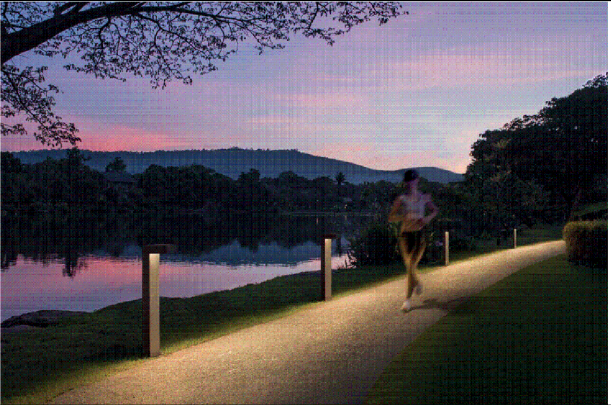
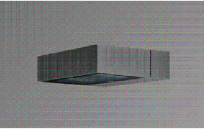
A Preliminary Ecology Appraisal is yet to be received but will be reviewed prior to completion of the final design. As a result of this consideration, McCann and Partners have developed the initial external lighting proposals using 3000K colour temperature LED luminaires, recognising the importance of mitigating the influence of artificial light on the potential movements of bats and other wildlife in the future. Luminaires with blue short wavelength light sources shall be avoided as this colour temperature has a significant and negative effect on insect which subsequently effects the feeding of bats.

The proposed external lighting strategy will entail the illumination of car parking spaces and pedestrian access and egress routes from the development. All external lighting for the development will afford adequate illumination of emergency exits and pedestrian escape routes. This will be achieved without causing obtrusive light spillage to adjacent scrubs and pond. The design will adhere to the requirements of the Institute of Lighting Engineers Guidance for the control of Night Time Pollution.

Glare is also considered, and wall mounted luminaires will be kept to a maximum of 3m mounting height to avoid direct vision into the lamp source of the fitting from distant locations. All wall mounted luminaires will be installed with their distribution directed downward. This will be ensured via the internal forward throw optic which is specified c/w maximum ratios of 97% downward LOR and 3% upward LOR.

Luminaire fixtures to footpaths and car park area will consist of low level bollards providing pathfinding light level supplemented by building mounted luminaires to the pods.

All bollard luminaires will be controlled by daylight level monitoring to avoid un-necessary operation and via time control to switch off at pre-determined times. In addition, a manual override facility will be provided adjacent to the time clock to allow operation of the external lighting circuits for emergency control or unique occasions and special events. Wall mounted luminaires will operate via a PIR so will only be energised when presence is detected.

Area	Luminaire Type / Mounting	we ef	Proposed Luminaire			Controls Strategy
B	LED 3000K Bollard c/w Pathway Distribution IP66 IK10 Marine Grade	we ef PSY424 [R65.3K] 6LED 12W (114-0146)				Photocell and timeclock arrangement from external services distribution board. Timeclock scheduling linked to BMS.
C	LED 3000K Bollard c/w Pathway Distribution IP66 IK10 Marine Grade	we ef PSY424 [R60.3K] 6LED 12W (114-0140)				Photocell and timeclock arrangement from external services distribution board. Timeclock scheduling linked to BMS.
D	Surface Mounted LED c/w Polycarbonate refractor and wide distribution 3000K IP66 IK08 Marine Grade	we ef PLS420 [A65.3K] 6LED 12W (131-9569)				Luminaires controlled from local PIR detector

Lighting proposal within hatched area has been submitted as part of planning application to Pond Cottage

- This is not an installation drawing.
- The final coordination of services, specialist Sub-Contractors, and building structure is the responsibility of the building services Contractor.
- Do not scale from this drawing.
- This drawing shall be read in conjunction with the MEP Specification.
- The installation of services shall be in compliance with the workmanship clauses detailed in the Specification.

Notes

Legend

Safety, Health & Environmental Information

In addition to the hazards / risks normally associated with the types of work detailed on this drawing, note the following:

Construction

1. None identified at date of issue.

Maintenance / Cleaning

1. None identified at date of issue.

Decommissioning / Demolition

1. None identified at date of issue.

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

External lighting layout amended	BM	28.09.23	P02
Details	Eng	Date	Rev

Revisions

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Job Title

Groll Park
Neath

Drawing Title

Electrical Engineering Services
External Light Management Strategy
Kitchen Gardens and Accommodation Area

Scale @ A1	Date	Authorised	Checked	Engineer	Drawn
1:250	Aug 23	GBH	DC	BM	CR
McConn Ref	Status	Information		Status Code	Revision
9007				S0	P02
UPRN	Job No.	Originator	Role	Type	Number
2080	04	MCP	E	DR	9400