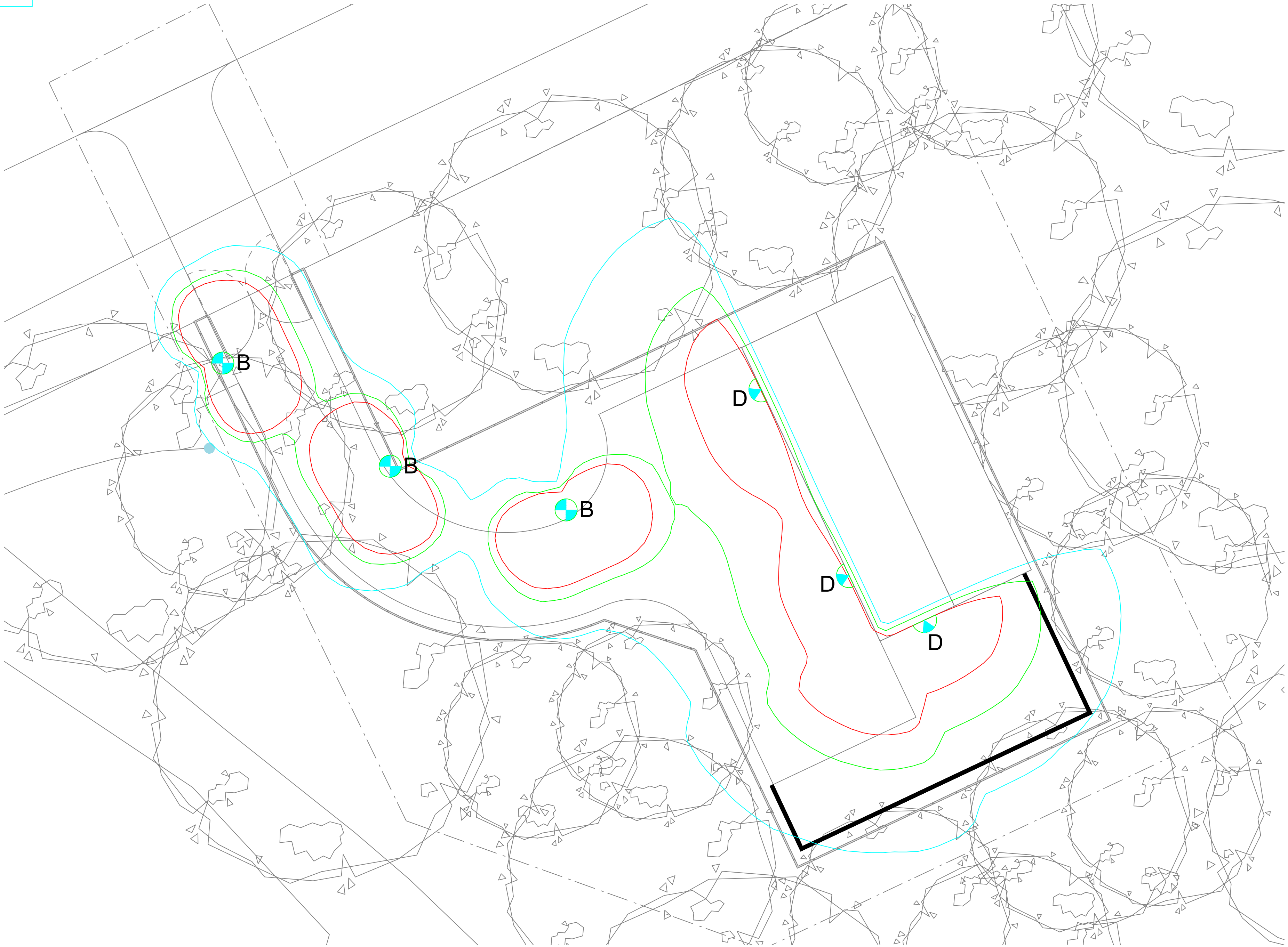
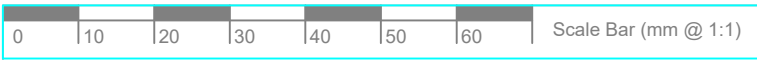




EXTERNAL LIGHT MANAGEMENT STATEMENT

This statement is prepared to assist with the discharge of outline planning permission relating to location and control of external lighting at the proposed Service Yard at Groll Estate Country Park. The Site is located to the North, East of Neath town centre in South Wales.

The development consists of a 1-storey service building and associated external yard and entrance road.

The existing site is home to the an ecological area primarily comprising scattered trees and scrub. The surrounding topography generally consists of Greenland, the Groll Park Visitors Centre 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 the entrance road, service yard 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. This will be achieved without causing obtrusive light spillage to adjacent scrubs. 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 the entrance road and services yard will consist of low level bollards providing pathfinding light level supplemented by building mounted luminaires illuminating the building perimeter. .

All 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.

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

- 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

Isolines

- 1.0 lx
- 5.0 lx
- 10.0 lx

Details	Eng	Date	Rev
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Revisions

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Job Title

Groll Park
Neath

Drawing Title

Electrical Engineering Services
External Light Management Strategy
Service Yard

Scale	⊙ A1	Date	Authorised	Checked	Engineer	Drawn
1:500		Oct 23	GBH	DC	BM	CR
McCann Ref		Status		Status Code Revision		
9007		Information		S0	P01	
UPRN	Job No.	Originator	Role	Type	Number	
2080	05	MCP	E	DR	9500	