



Area	Luminaire Type / Mounting	Proposed Luminaire			Controls Strategy
B	LED 3000K Bollard c/w Pathway Distribution IP66 IK10 Marine Grade	we-ef FSY424 (R85.3°) & LED 12W (114-21°46)			Photocell and timedclock arrangement from external services distribution board. Timedclock scheduling linked to BMS.

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 Gnoll House Ruins at Gnoll Estate Country Park. The Site is located to the North, East of Neath town centre in South Wales.

The development consists of the repurposing of Gnoll House Ruins.

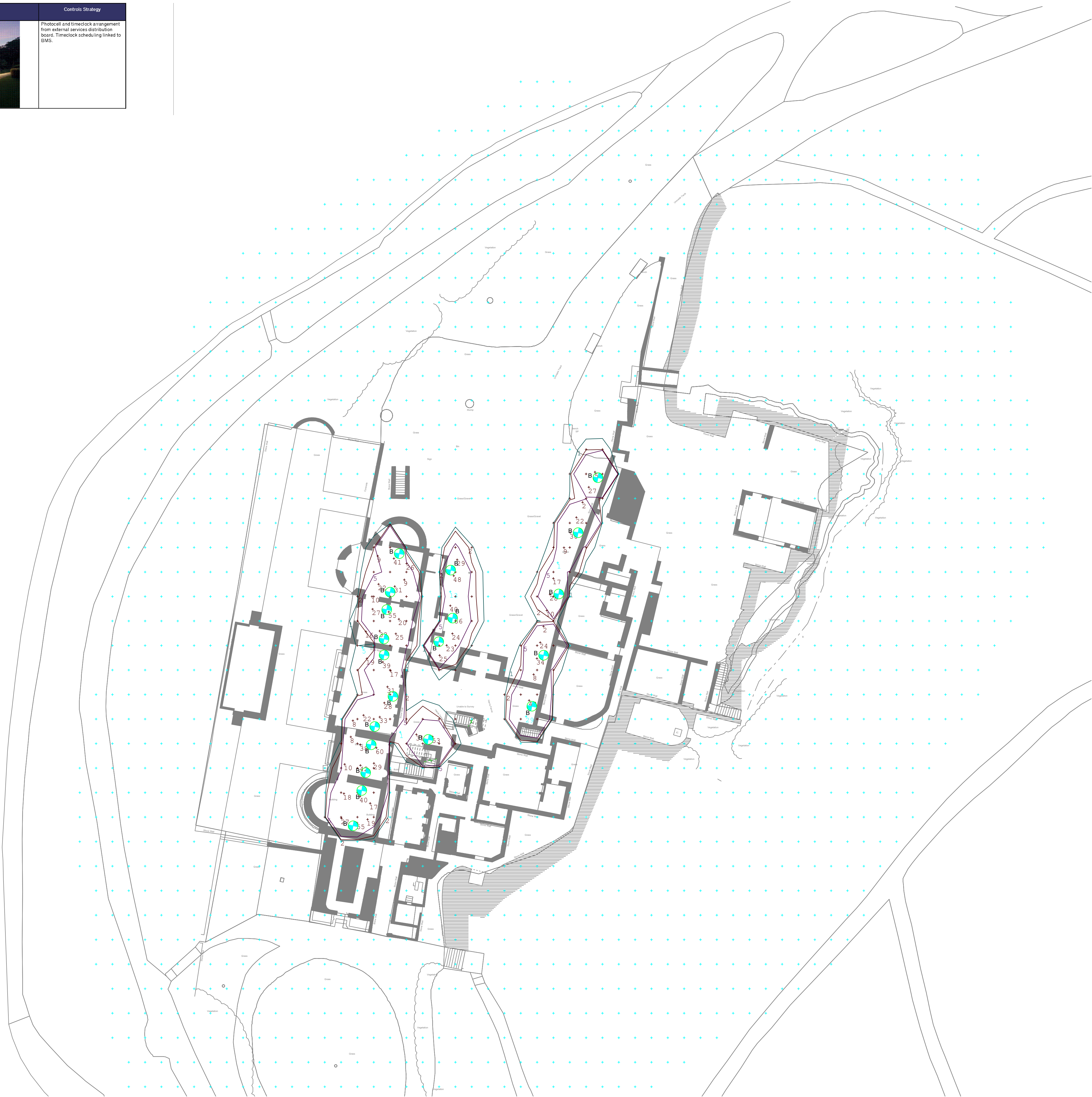
The existing site is home to the ruins of the Gnoll House, an 18th century home and ecological area primarily comprising scattered trees and scrub and Gnoll Park Pond. The surrounding topography generally consists of Greenland and a housing site to the West.

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. Bat roosts have been identified and care has been taken to avoid illuminating these areas. 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 a proposed pathway through the ruins. 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, pond and bat roosts. The design will adhere to the requirements of the Institute of Lighting Engineers Guidance for the control of Night Time Pollution.

All 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 87% downward LOR and 3% upward LOR. Luminaire fixtures to the pathway will consist of low level bollards providing pathfinding light levels only.

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 to allow operation of the external lighting circuits for emergency control or unique occasions and special events. Final location of manual control to be confirmed through design progression.



- 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

Details	Eng	Date	Rev
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Revisions

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Job Title
Gnoll Park
Neath

Drawing Title
Electrical Engineering Services
External Light Management Strategy
Gnoll House Ruins

Scale	A1	Date	Aug 23	Authorised	GBH	Checked	DC	Engineer	BM	Drawn	CR	
McConn Ref	9007	Status	Information					Status Code	S0	Revision	P01	
UPRN	Job No.	Originator	MCP	Role	E	Type	DR	Number				9100