

Arlecdon Farm Barn Compliance With Planning Condition No. 4

Date: 29 September 2026

Author: Barry Parsons

Ref: APPLICATION No: 4/25/2270/0F1

**Conversion Of Barn To Dwelling
Barn At Arlecdon Farm, Arlecdon.**

Operational Lighting Scheme

In accordance with Planning Approval **4/25/2270/0F1**

Condition No. 4, regarding the details of a **Sensitive Construction And Operational Lighting Scheme**, please find included details of proposed new exterior lighting positions.

The scheme has been put together showing the approximate light positions, that will be a combination of motion controlled downward security lights, traditional style lanterns & motion-controlled walkway wall lights, illuminating only the doorways and walkways with minimal spill into adjacent habitats or other parts of the property.

The scheme aims to comply with Guidance Notes 08 and 09, as listed in the references below, and that any new lights will be positioned appropriately in height to prevent unnecessary light overspill beyond the property boundary.

References:

- <https://theilp.org.uk/resource/gn08-bats-and-artificial-lighting-pdf.html>
- <https://theilp.org.uk/resource/gn09-domestic-exterior-lighting-pdf-1.html>

Operational Lighting Scheme

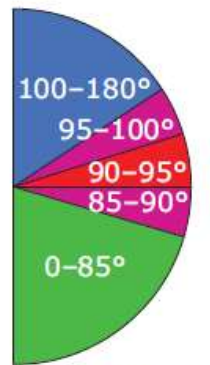
Guidance Note 09, Domestic Exterior Lighting, has been suggested by Patryk Gruber of Lakeland Ecology, as it is more applicable to domestic settings. Key extracts shown below.

- Motion Controlled Security Lighting Will Be Less Than 2000 Lumens

Domestic Security

“it is rarely necessary to use a lamp of greater than 2000 lumens (150W)”

- And Set At An Angle Between 0° And 85° From The Vertical Plane.

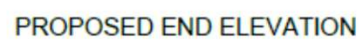


Indicative diagram

Table 1: The effect on the ability to view the night sky at various angles

Angle of light emitted (degrees)	Sky glow effect	Glare effect
100 – 180	Local	Little
95 – 100	Significant	Some
90 – 95	High	High
85 – 90	Significant	High
0 – 85	Minimal	Some

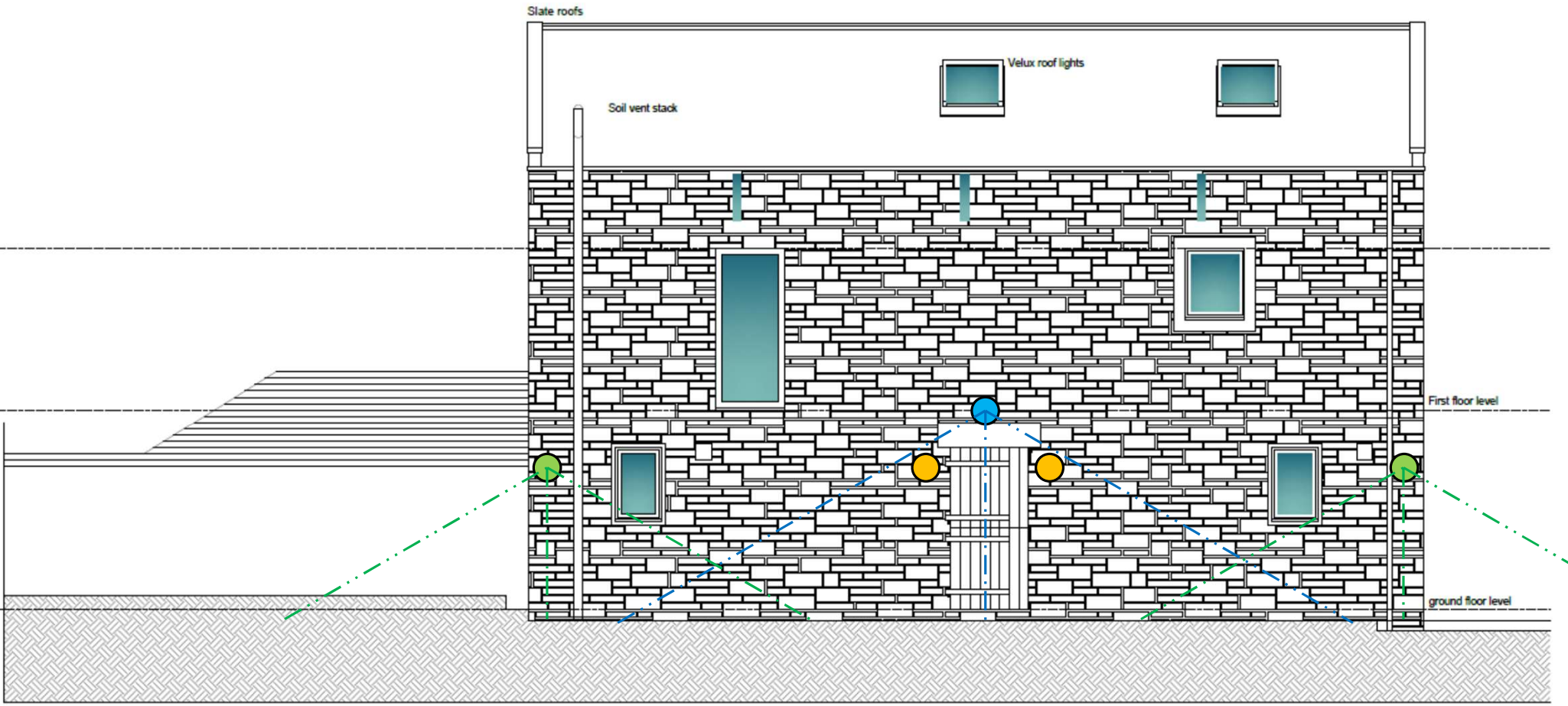
- **Mains Power, Switchable, Motion Controlled Downward Security Light (<2000Lm & <85° From The Vertical Plane)**
- **Mains Power, Switchable, Traditional Style Lantern**
- **Solar Power, Motion Controlled Walkway Wall Light**



SCALE BAR 1/200 ORIGINAL DRAWING SIZE A3												0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0 metres	30.0 metres	60.0 metres	70.0	80.0	90.0	100.0	110.0	120.0	130.0	140.0	150.0	160.0	170.0	180.0	190.0	200.0	SCALE BAR 1/500														
SCALE BAR 1/100												0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0 metres	400.0 metres	350.0	300.0	250.0	200.0	150.0	100.0	50.0	0.0	SCALE BAR 1/2500																					
SCALE BAR 1/50												0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0 metres	400.0 metres	350.0	300.0	250.0	200.0	150.0	100.0	50.0	0.0	SCALE BAR 1/2500																					
ARLECDON FARM BARN 1 ARLECDON FARM ARLECDON CUMBERLAND CA26 3UW for Barry and Jackie Parsons												CONVERSION TO DWELLING												PROPOSED END ELEVATIONS												Scale: 1/50 @ A3		Date: AUG 2024		REV DATE		Geoffrey Wallace Limited F08D MCIAT Architectural Design and Technology Mobile 07816046756 geoffreywallaceltd@gmail.com											
DWG No. 08/0412/10																																																					

Key

- Mains Power, Switchable, Motion Controlled Downward Security Light (<2000Lm & <85° From The Vertical Plane)
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- Solar Power, Motion Controlled Walkway Wall Light

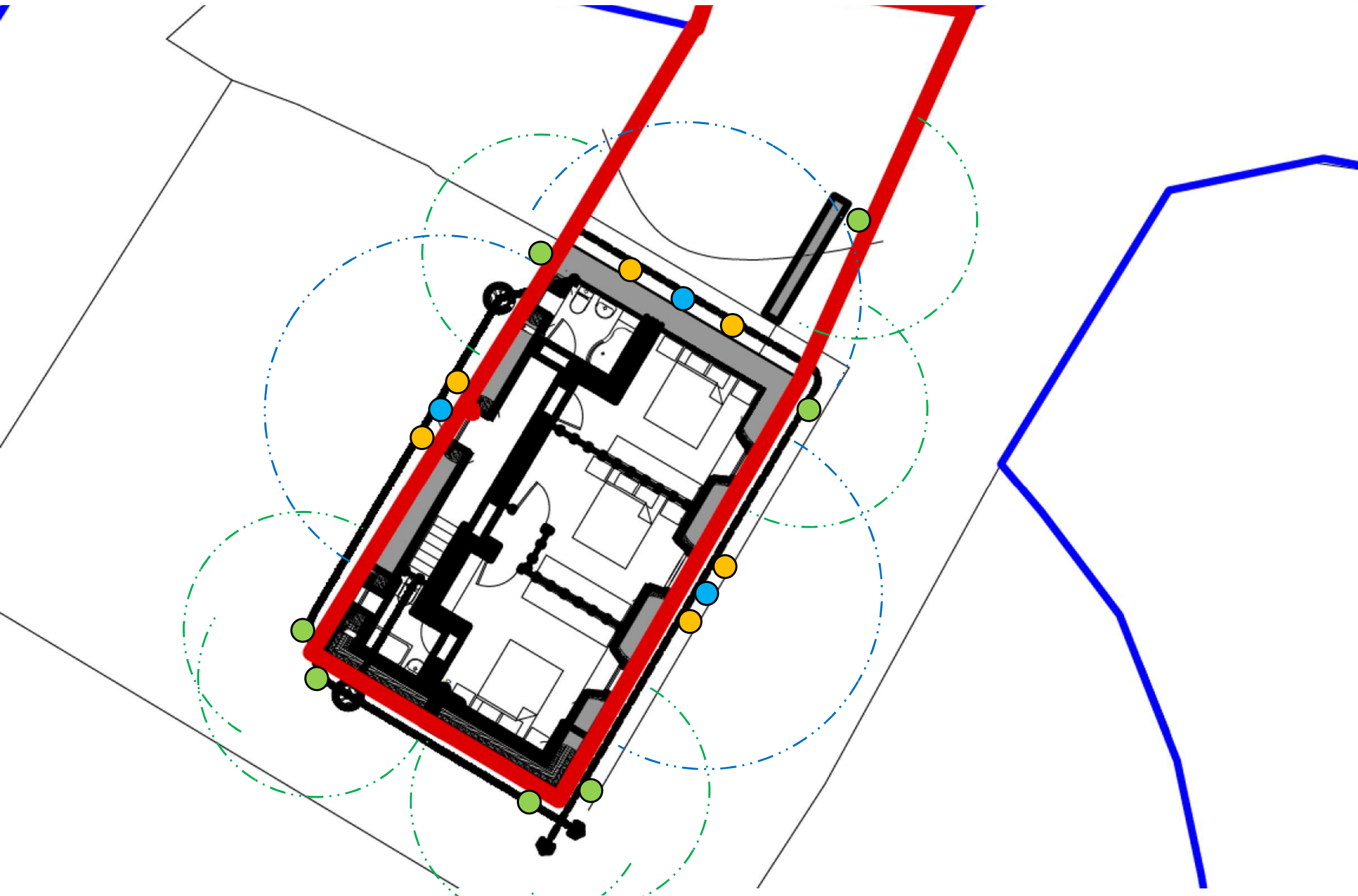


PROPOSED REAR ELEVATION

SCALE BAR 1/200 ORIGINAL DRAWING SIZE A3															SCALE BAR 1/500				
SCALE BAR 1/100															SCALE BAR 1/2500				
SCALE BAR 1/50																			
ARLECDON FARM BARN 1 ARLECDON FARM ARLECDON CUMBERLAND CA26 3UW for Barry and Jackie Parsons																			
CONVERSION TO DWELLING					PROPOSED REAR ELEVATION					Scale: 1/50 @ A3		Date: OCT 2024		REV DATE		Geoffrey Wallace Limited FCSD MCAT Architectural Design and Technology Mobile 07816046756 geoffreywallaceltd@gmail.com			
										DWG No.		24/0412/09							

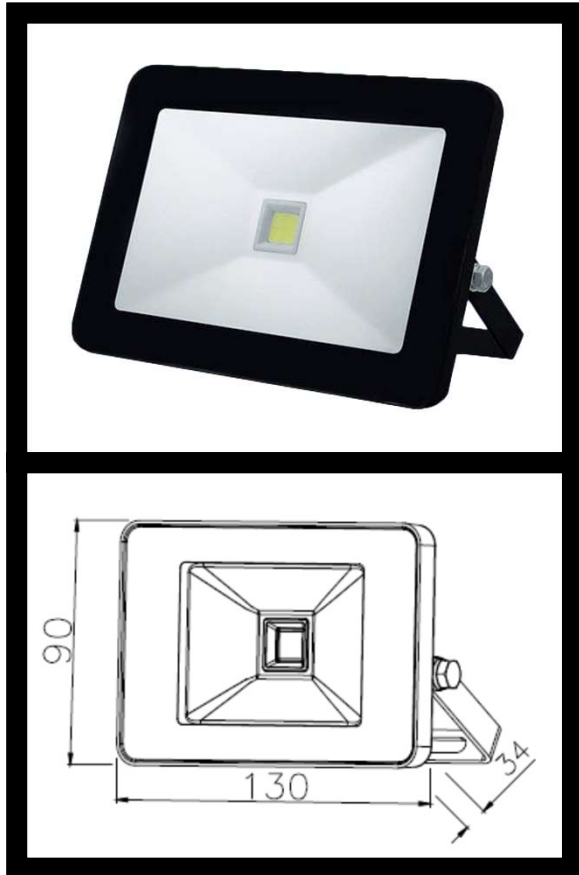
Key

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- Solar Power, Motion Controlled Walkway Wall Light



Lighting Types

- **Mains Power, Switchable, Motion Controlled Downward Security Light**



Motion Controlled 10w LED Ultra Slim Floodlight - Warm White or Suitable Equivalent

SPECIFICATIONS:

Voltage Range: 220-240V/AC

Frequency: 50/60 Hz

Power: 10w

Light Color: Warm White 3000k

Lumens: 700Lm

Electrical Protection: Class I

Ingress Protection: IP65

Quality/Corrosive Rating: Suitable For Commercial Use And Indoor/Outdoor Applications

Material: Die Cast Aluminium Body With Tempered Glass Diffuser

Ambient Temperature Range: -8°C To +45°C

Beam Angle: 120°

Adjustable Bracket

Depth: 34mm **Length:** 130mm **Height:** 90mm

Lighting Types

- **Mains Power, Switchable, Traditional Style Lantern
(As Currently Used Elsewhere On The Property. See Following Slide)**

**Traditional Style Lantern
or Suitable Equivalent**



SPECIFICATIONS:

Voltage Range: 220-240V/AC

Frequency: 50/60Hz

Power: 23w Max

Light Color: Lamp Dependant (Warm White Preferred)

Lumen: Lamp Dependant

Fitting: E27

Electrical Protection: Class I

Ingress Protection: IP44

Fixture Material: Cast Aluminium

Diffusor Material: Clear Glass

Fixture Color: Black

Ambient Temperature: 0°C to 30 °C

Depth: 168mm **Length:** 220mm **Height:** 370mm

Standard: BSEN60598-1:2021 Luminaires-Part 1: General Requirements And Tests

Lighting Types

- Mains Power, Switchable, Traditional Style Lantern As Currently Used Elsewhere On The Property



Sample Of Warm White Lamp Currently In Use.



Lighting Types

● Solar Power, Motion Controlled Walkway Wall Light



**Outdoor Solar PIR Wall Light
or Suitable Equivalent**

SPECIFICATIONS:

Polycrystalline Solar Panel

Battery Type: Li-Ion LIB

Battery Voltage: 3.7V

Battery Capacity: 2200mAh

A+ Energy Efficiency

Power: 2W

Integrated LED

Lumen: 200Lm

CRI: 80

Electrical Protection: Class III

Ingress Protection: IP44 Rated

PIR Sensor Detection Angle: 120°

PIR Sensor Detection Distance: 12m

Material: Stainless Steel/Opal PC

Finish: Steel

Depth: 125mm **Length:** 218mm **Height:** 126mm