



- NOTES**
- All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect, Structural Engineer & Electrical Engineer for verification. Figured dimensions only are to be taken from this drawing.
  - The electrical installation shall comply in full with BS7671:18th edition including all up to date amendments.
  - Lighting levels to comply with CIBSE LGS, including all up to date amendments.
  - MUGA pitches lighting levels to comply with BS EN12239, including all up to date amendments.
  - Contractor shall install luminaires as per the manufacturers recommendations for ingress protection and protection against mechanical impact.
  - Contractor to refer to Architects and landscape architects.
  - Cabling shall be via suitable XLPE/DVA/LSF suitable for external buried installation.
  - Coordination of services shall be by the contractor. Services shall be installed so that they do not clash with other services and shall be located so that they can be easily maintained.
  - Contractor to allow for ducting to external fittings.
  - This drawing has been produced for planning purposes only and is indicative only of the final design proposal.
  - The following elements are excluded from the external lighting design package: refer to Architectural work package for illuminated signage, way finding signage, brand signage, road signage.
  - External lighting to be developed and coordinated with any landscape design as required.
  - High level luminaires shall be of forward throw and tilts to improve uniformity (maximum tilt as per IES guidance).

**REVISIONS**

NO	DATE	REVISION	NOTES/COMMENTS

Luminaire Schedule											
Symbol	Label	Manufacturer	Model	Arrangement	Description	Luminaire Lumens	Luminaire Watts	Mounting Type	Mounting Height	Dimensions	Temperature
	EX1	Thorn Lighting	Piazza 2	Single	IP65, IK10 vandal resistant wall mounting luminaire in anthracite (RAL 7016).	1844lm	15W	Surface Mounted	3000mm	383 x 196 x 306mm	3000K
	EX1E	Thorn Lighting	Piazza 2	Single	IP65, IK10 vandal resistant wall mounting luminaire in anthracite (RAL 7016) with emergency.	1844lm	15W	Surface Mounted	3000mm	383 x 196 x 306mm	3000K
	EX2	Thorn Lighting	R2L2	Single	Efficient LED Pole mounted luminaire with minimum waste light. IP66 and IK09.	2922lm	20W	Post Top	6000mm	655 x 362 x 155mm	3000K
	EX3	Thorn Lighting	R2L2	Single	Efficient LED Pole mounted luminaire with minimum waste light. IP66 and IK09.	2877lm	20W	Post Top	6000mm	655 x 362 x 155mm	3000K
	EX4	Thorn Lighting	Plurio	Single	Decorative post-top lantern. IP66 and IK08.	2576lm	21W	Post Top	5000mm	564dia x 567mm	3000K
	EX5	Thorn Lighting	Plurio	Single	Decorative post-top lantern. IP66 and IK08.	2406lm	21W	Post Top	5000mm	564dia x 567mm	3000K
	EX6	Thorn Lighting	Areaflood Pro 2	2 @ 90 degrees	A compact, lightweight, general purpose LED area floodlight. IP66, IK08 Class 1 Electrical.	46581lm	298W	Post Top	8000mm	729 x 360 x 115mm	4000K

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Min/Avg	
Upper Parking	Illuminance	Lux	13.93	24	6	0.43	
Access Road	Illuminance	Lux	12.91	22	6	0.46	
Lower Parking	Illuminance	Lux	11.61	21	7	0.60	
Building Perimeter	Illuminance	Lux	20.21	41	5	0.25	
Lower Access to School	Illuminance	Lux	9.80	15	7	0.71	
MUGA Pitch 1	Illuminance	Lux	224.95	308	134	0.60	
MUGA Pitch 2	Illuminance	Lux	224.78	310	129	0.57	
Lower Path around Building	Illuminance	Lux	11.33	17	6	0.53	
Path to MUGA RHS	Illuminance	Lux	111.43	180	55	0.49	
Path to MUGA LHS	Illuminance	Lux	62.32	256	7	0.11	



Suitable for Review and Comment						
PO	S. Gaultby	12/11/23	D. Finley	23/10/23	A. Hanks	12/10/23
REV	DATE	CHECKED BY	DATE	APPROVED BY	DATE	



CLIENT  
Bridgend Primaries | Marlas Site

TITLE  
Electrical Services  
Proposed External Lighting

HYDROCK PROJECT NO. C-24390	SCALE @ A3 1 : 500	STATUS DESCRIPTION SUITABLE FOR REVIEW & COMMENT	STATUS S3
DRAWING NO (PROJECT - ORIGINATOR - VOLUME - LEVEL - TYPE - ROLE - NUMBER) BR0301-HYD-XX-XX-DR-E-90001	REVISION PO1		

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