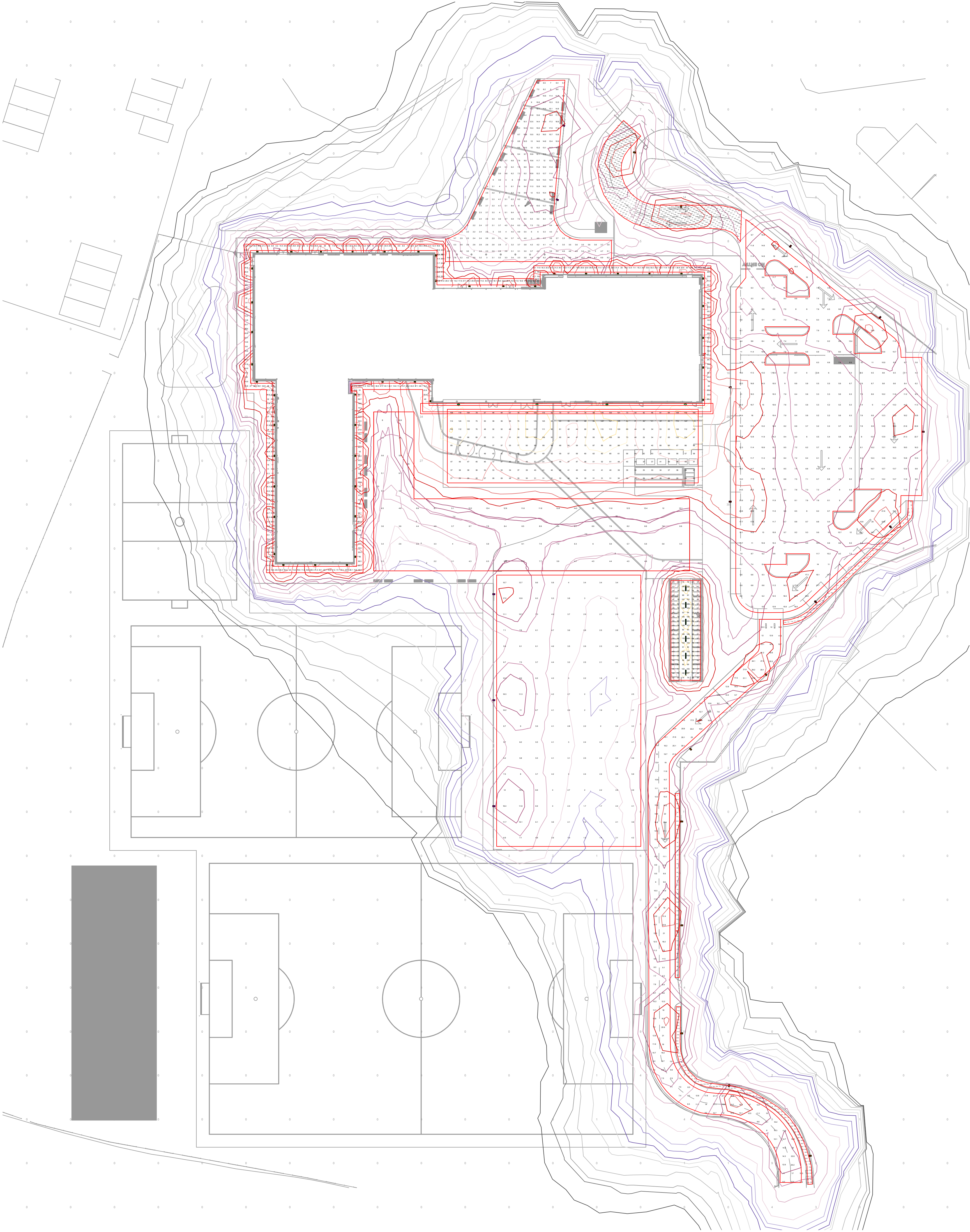


Symbol	Qty	Article number	Article name	Equipment
	44	SPXAH14K	SPECTRE WX	LED 9 W
	5	SIPAHE14K	SIROCCO PARK	LED 35 W
	9	SIPSHE14K	SIROCCO PARK	LED 35 W
	7	SIPAHE24K	SIROCCO PARK	LED 60 W
	6	ACH34K	ACL INDUSTRY	LED 27 W
	4	SEMH44KG	SELISE MAXI	LED 419 W



THIS DOCUMENT IS SUPPLIED IN STRICT CONFIDENCE AND MUST NOT BE LENT, REPRODUCED OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE PRIOR WRITTEN CONSENT OF WHITECROFT LIGHTING LTD.

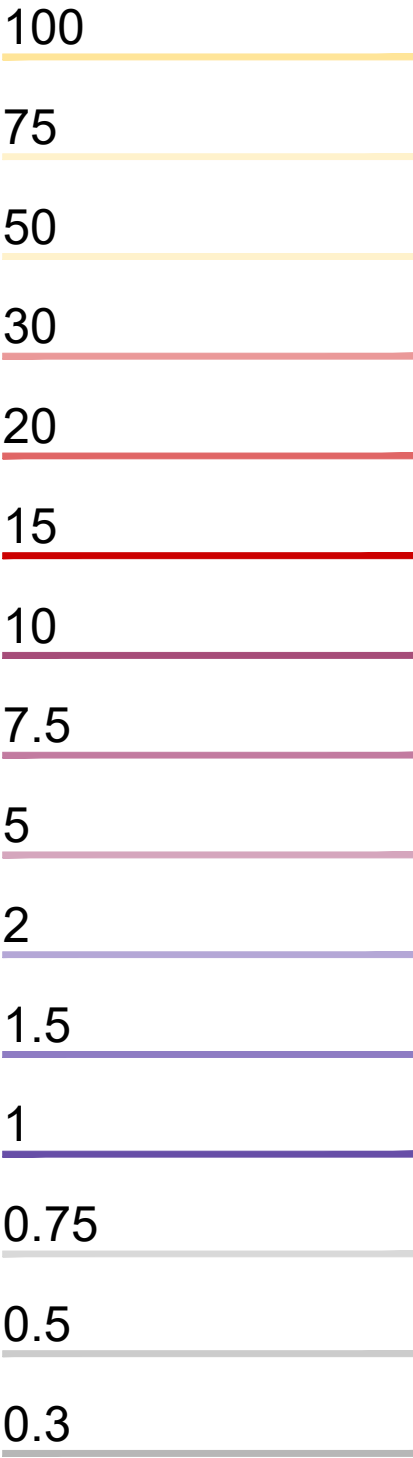
CDM 2015 - Designers Risk Assessment

The following information is provided in accordance with Regulation 9 of the Construction (Design Management) Regulations 2015:

- No unusual or significant risks have been identified.
- Installation of electrical services to lighting, contractor to prepare appropriate Risk assessment and method statements to establish safe method of works.
- Installation of lighting may involve working at height, contractor to prepare appropriate Risk assessment and method statements to establish safe method of works.
- Product specific Installation instructions should be adhered to, in order to ensure compliance with the requirements of BS EN 60598 with regards to electrical and mechanical safety of the luminaire.
- Refer to the Principal Designer for any project specific Health & Safety information.

GENERAL NOTES:

- Do not scale from this drawing.
- All dimensions are in millimeters unless otherwise noted.
- All dimensions are to be confirmed.
- This drawing does not necessarily contain all the required information required to communicate the overall design intent or construction detail - therefore drawings should be read in conjunction with all other relevant documentation and specifications.
- Any apparent errors or differences shall be brought to the attention of Whitecroft Lighting as soon as practicable.



BREEAM Pol 4 - Reduction of Night Time Light Pollution Non-Domestic Buildings

One BREEAM credit is awarded where the lighting design is consistent with the criteria below

Demonstrate compliance with B2 Guidance Notes for the Reduction of Obtrusive Light (B2G1)

Zone	Surroundings	Lighting Environment	Examples
E0	Protected	Dark	UNESCO World Heritage Site, Dark Sky Reserve, etc.
E1	Natural	Intensely dark	Natural Parks, Areas of Outstanding Natural Beauty, etc.
E2	Rural	Low distant brightness	Village or relatively dark rural landscape, etc.
E3	Suburban	Medium distant brightness	Small town centres or suburban locations, etc.
E4	Urban	High distant brightness	Township centres with high levels of light time activity

General action relates to the B2 Guidance Notes for the Reduction of Obtrusive Light (B2G1) and the B2G2 Guidance Notes for the Reduction of Obtrusive Light (B2G2). The design team should ensure that the lighting design is consistent with the criteria below and that the lighting design is consistent with the criteria below.

1. Values for each parameter should only be demonstrated with full detailed drawings showing lighting layout, luminaire details, and lighting calculations for further details.

2. No building is to directly or indirectly emit light into the night sky from its building or building luminaire requirements are not applicable.

3. This applies to each luminaire in the potentially obtrusive direction, outside of the area of the building. The design team should ensure that the lighting design is consistent with the criteria below and that the lighting design is consistent with the criteria below.

4. External lighting (except for safety and security) should be automatically switched off between 11pm and 5am (or earlier) to gain the BREEAM credit.

5. Safety and security lighting between 11pm and 5am should meet the 'Post-Curfew' targets in Table 2.

6. Night time switching control is recommended to achieve compliance post curfew.

7. Luminaire output reduced to 50% where 'Post-Curfew' fixtures is used.

E3 Project Environmental Zone

Detailed equipment details with data below															
Reference	Part Number	Product Type	Time of Operation	Lamps	Lumens	Qty	Light Output (lm)	Upward Light Ratio (%)	Total power (W)	Total available lumens	Max. source intensity (cd/1000 sqm)	Max. source intensity (cd)	Max. source intensity (cd) Post-Curfew	Circuit Watts	Total Watts
SPX21180	SPECTRE WX 180	Pre-Curfew	LED	1110	44	44	48520	100.0%	0.00%	0.0	25150.0	560	2360	17.5	777.8
SIPAHE14K	SIROCCO PARK 14K	Pre-Curfew	LED	3031	5	5	100.0%	0.0%	0.0	25150.0	560	2360	35.3	176.5	
SIPAHE24K	SIROCCO PARK 24K	Pre-Curfew	LED	7669	7	7	100.0%	0.0%	0.0	25150.0	560	2360	60.5	423.5	
SIPAHE14K	SIROCCO PARK 14K	Post-Curfew	LED	3031	9	9	100.0%	0.0%	0.0	40000.0	558	3187	35.3	317.7	
ACH34K	ACL INDUSTRY 34K	Pre-Curfew	LED	3685	6	6	100.0%	0.0%	0.0	21160.0	262	1132	22.2	162.0	
SEMH44KG	SELISE MAXI 44KG	Pre-Curfew	LED	38009	4	4	100.0%	0.0%	0.0	144000.0	882	31760	419.5	1676.0	
									2320	324130					
														324130	

BREEAM Ene 01 External Lighting, BREEAM New Construction (Non-Domestic Buildings)

At least 1 BREEAM credit is awarded where the lighting design is consistent with the criteria below

2015 2016 or 2018, status is shown to the right

2015 2016 or 2018, status is shown to the right

2015 2016 or 2018, status is shown to the right

Target	10.0	1.0
Project	31.8	31.8
PASS/FAIL	Pass	Pass

R0	Initial calculations and design	11.03.2021	GR
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Rev	Description	Date	By
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www.whitecroftlighting.com



Project Name:

BELLE VUE

Drawing Name:

EXTERNAL LIGHTING LAYOUT PLAN

Drawn by:	Checked by:	Date:	Scale:
GR	SR	11.03.2021	1:500 @ A1

Drawing No:	Revision:
23598 - DWG - EX - 00001	00

Project No.	Type	Floor/Loc.	Sequence
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