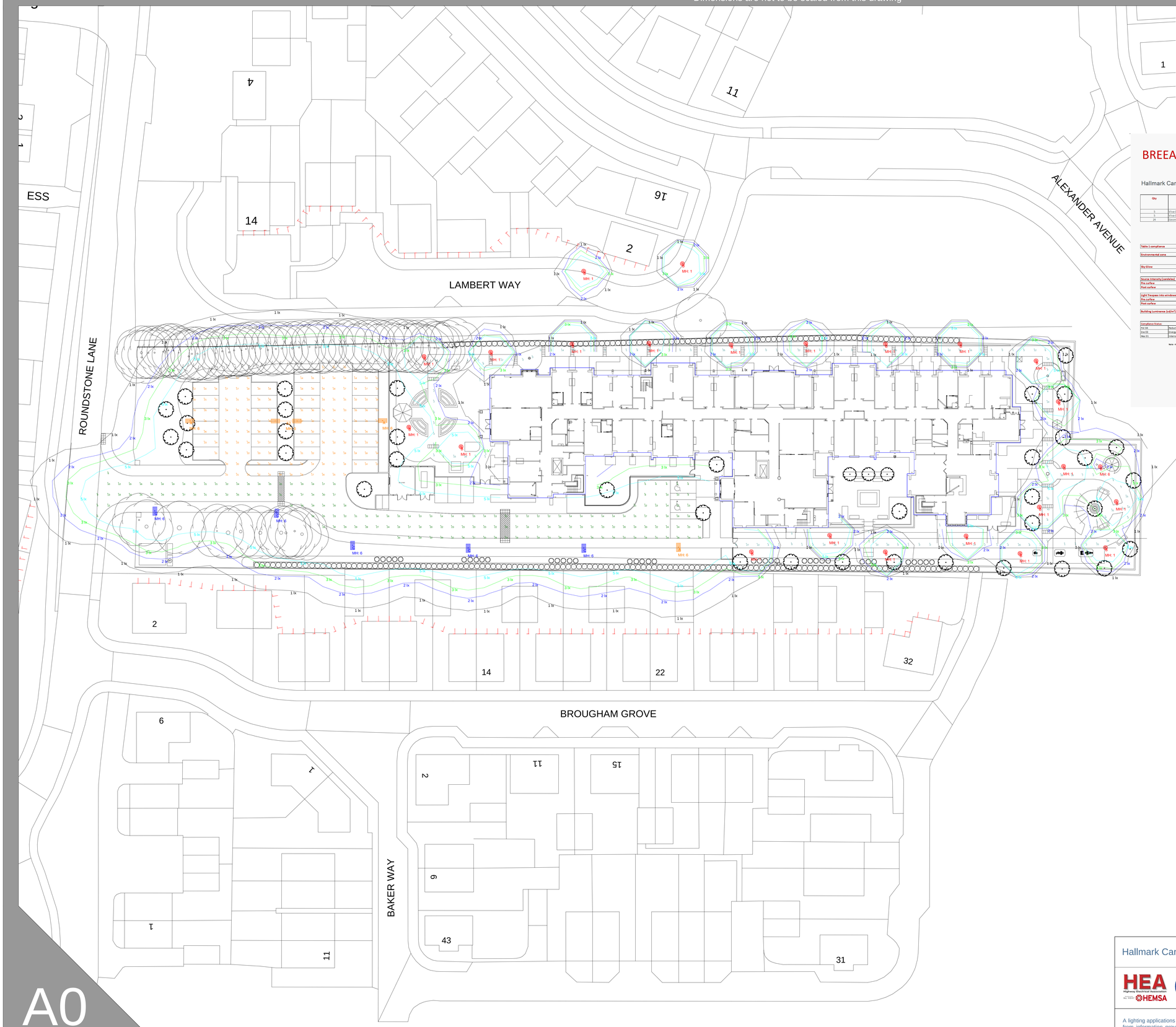
Dimensions are not to be scaled from this drawing



Kingfisher Lighting

Part of the Luceco PLC group of companies LUCECO

BREEAM New Construction 2018 (UK)

Hallmark Care Homes - Pound Place, Round Stone Road, Angmering

Qty	Range	Light Source	Lamp Lumens	Circuit Watts	Lm/W	LOR	Luminaire Lumens	Ul≥90	Upward Lmns	RA	ART Hour Per Day	CO^2 Calculation for year	
												CO^2 (Tonnes)	Re/Hour
5	Viva City PRO	40w LED FW70	5850	40	147.50	100.0%	29500	0.0%	0	70	12	0.20	876.00
5	Viva City PRO	40w LED AY70	5917	40	148.18	100.0%	29635	0.0%	0	70	12	0.20	876.00
24	Geomini	23w LED	1910	25	84.18	78.0%	36508	0.1%	27	80	12	0.61	2628.00

Total Installation Lumens	EN42.2-3.2	Total ULR	0.03%

Total CO^2 per year (Tonnes)	1.01
Total Electrical consumption (Mwh)	5.00
Total Electrical consumption per year (Mwh)	4,380.00
Average luminaire lumens per circuit Watt	95.54

Table 1 compliance	
Environmental zone	E1

Sky Glow	Target	Achieved	Status
	5.00%	0.03%	Pass

Source Intensity (candelas)			
Pre curfew	10,000	207	Pass
Post curfew	1,000	207	Pass

Note - we have not been able to calculate this as no housing is shown on the drawing

Note - we have assumed no fittings will be left on Post curfew

Light Trespass into windows (Lux)			
Pre curfew	10	1	Pass
Post curfew	2	1	Pass

Note - we have not been able to calculate this as no housing is shown on the drawing

Note - we have assumed no fittings will be left on Post curfew

Building Luminance (cd/m²)	10		

Compliance Status:		
Pol 04	Reduction of night time light pollution	Pass
Ene 03	Energy efficient external lighting	Pass
Hea 01	Internal and external lighting levels	Pass

Note - EN43.3 in this report only applies to exterior lighting

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Part of the Luceco plc group of companies LUCECO

VAT No. 509145848 Company No. 2236337

Luminaire Schedule

Symbol	Qty	Label	Arrangement	LLF	Description
	3	A	SINGLE	0.900	40w LED Viva City Pro 4000k 804mA with FW70 Optic Column Mounted 6m
	1	A2	BACK-BACK	0.900	2 x 40w LED Viva City Pro 4000k 804mA with FW70 Optic Column Mounted 6m
	24	B	SINGLE	0.900	23w LED 4000k Geomis 1m bollard
	5	C	SINGLE	0.900	40w LED Viva City Pro 4000k 804mA with AY70 Optic Column Mounted 6m

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
Access Road	Illuminance	Lux	20.08	39	5	0.25	0.13
Pathway	Illuminance	Lux	10.38	112	0	0.00	0.00
Pathway 2	Illuminance	Lux	10.65	39	1	0.09	0.03
Pathway 3	Illuminance	Lux	13.00	37	2	0.15	0.05
Car Park Area	Illuminance	Lux	21.52	37	10	0.46	0.27
ObtrusiveLight Houses North_Cd_S	Obtrusive - Cd	N.A.	29.83	52	11	0.37	0.21
ObtrusiveLight Houses North_Cd_S	Obtrusive - Cd	N.A.	57.36	86	31	0.54	0.36
ObtrusiveLight Houses North_Cd_S	Obtrusive - Cd	N.A.	52.50	79	30	0.57	0.38
ObtrusiveLight Houses North_Cd_S	Obtrusive - Cd	N.A.	29.25	46	13	0.44	0.28
ObtrusiveLight Houses North_Cd_S	Obtrusive - Cd	N.A.	28.50	45	13	0.46	0.29
ObtrusiveLight Houses North_Cd_S	Obtrusive - Cd	N.A.	34.20	62	13	0.38	0.21
ObtrusiveLight Houses North_Cd_S	Obtrusive - Cd	N.A.	54.75	98	20	0.37	0.20
ObtrusiveLight Houses North_Cd_S	Obtrusive - Cd	N.A.	66.00	100	33	0.50	0.33
ObtrusiveLight Houses North_Cd_S	Obtrusive - Cd	N.A.	67.60	102	35	0.52	0.34
ObtrusiveLight Houses North_Cd_S	Obtrusive - Cd	N.A.	3.00	6	1	0.33	0.17
ObtrusiveLight Houses North_Cd_S	Obtrusive - Cd	N.A.	56.25	81	32	0.57	0.40
ObtrusiveLight Houses North_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses North_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses North_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses North_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses North_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses North_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses North_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses North_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses North_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses North_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses North_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses North_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses South_Cd_S	Obtrusive - Cd	N.A.	67.33	102	34	0.50	0.33
ObtrusiveLight Houses South_Cd_S	Obtrusive - Cd	N.A.	38.54	82	20	0.52	0.24
ObtrusiveLight Houses South_Cd_S	Obtrusive - Cd	N.A.	40.50	47	34	0.84	0.72
ObtrusiveLight Houses South_Cd_S	Obtrusive - Cd	N.A.	41.25	48	35	0.85	0.73
ObtrusiveLight Houses South_Cd_S	Obtrusive - Cd	N.A.	23.25	29	17	0.73	0.59
ObtrusiveLight Houses South_Cd_S	Obtrusive - Cd	N.A.	43.17	51	36	0.83	0.71
ObtrusiveLight Houses South_Cd_S	Obtrusive - Cd	N.A.	65.90	104	27	0.41	0.26
ObtrusiveLight Houses South_Cd_S	Obtrusive - Cd	N.A.	74.60	163	20	0.27	0.12
ObtrusiveLight Houses South_Cd_S	Obtrusive - Cd	N.A.	49.00	135	12	0.24	0.09
ObtrusiveLight Houses South_Cd_S	Obtrusive - Cd	N.A.	22.70	37	9	0.40	0.24
ObtrusiveLight Houses South_Cd_S	Obtrusive - Cd	N.A.	29.17	54	11	0.38	0.20
ObtrusiveLight Houses South_Cd_S	Obtrusive - Cd	N.A.	38.90	63	14	0.36	0.22
ObtrusiveLight Houses South_Cd_S	Obtrusive - Cd	N.A.	35.83	60	17	0.47	0.28
ObtrusiveLight Houses South_Cd_S	Obtrusive - Cd	N.A.	34.30	50	18	0.52	0.36
ObtrusiveLight Houses South_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses South_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses South_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses South_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses South_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses South_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses South_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses South_Ill_	Obtrusive - Ill	Lux	0.20	1	0	0.00	0.00
ObtrusiveLight Houses South_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses South_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses South_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses South_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses South_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses South_Ill_	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight Houses West_Cd_Se	Obtrusive - Cd	N.A.	79.45	207	33	0.42	0.16
ObtrusiveLight Houses West_Ill_S	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.

N

Hallmark Care Homes - Pound Place, Round Stone Road, Angmering

Scale	Project Number
1:250 at A0	D41414
Date	Drawing No.
13 November 2020	D41414/PMU/A

Lighting Designer : P.Murphy

HEA Highway Electrical Association HEMSA ILP Institution of Lighting Professionals ACA Ancillary Contractor

For our LED lighting designs a 0.9mf has been used. If this differs from the maintenance period for this project then you must advise us accordingly

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