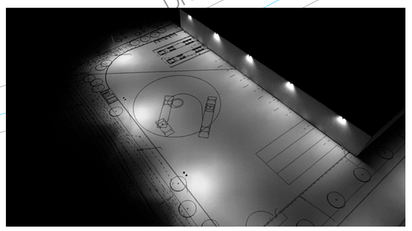
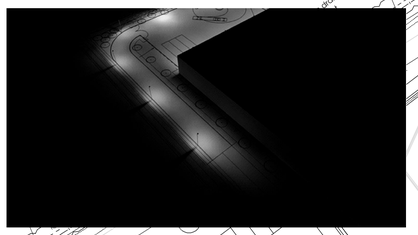
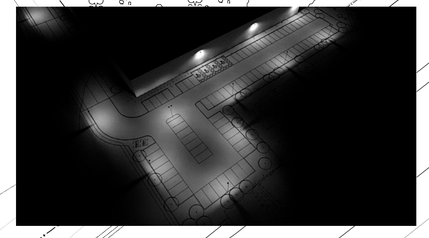
Dimensions are not to be scaled from this drawing.











BREEAM

P26521 - Proposed Development Gateway 36, Dearne Valley Parkway, Barnsley

Kingfisher Lighting

Qty	Range	Lamp type	LAMP Lumens	Circuit Watts	Lm/W	LOR	Total Lumens	ULR	Upward Lmns	RA	ART Hour Per Day	CO² Calculation for year CO² (Tonnes)	Kw/hour
11	Italo 1	Italo 1 525mA 3 Module	6580	61.5	106.99	100.0%	72380	0.0%	0	70	12	1.60	2936.96
2	Italo 1	Italo 1 525mA 2 Module	4390	41.5	105.78	100.0%	8780	0.0%	0	70	12	0.19	356.32
3	Italo 1	Italo 1 525mA 4 Module	8770	78.5	111.72	100.0%	26310	0.0%	0	70	12	0.58	1024.53
11	TLED	TLED 18 LED	12800	114.0	112.28	100.0%	140800	0.0%	0	70	12	2.99	5480.52

Total Installation Lumens 248480 0

Total ULR 0.00% **Total CO² per year (Tonnes)** 5.35

Table 1 compliance **Environmental zone** E3 **Total Electrical consumption (Kw)** 2.24

	Target	Achieved	Status
Sky Glow	5.00%	0.00%	Pass
Source Intensity (candela/klm)			
Pre curfew	10,000	0	Pass
Post curfew	1,000	0	Pass
Light Trespass into windows (Lux)			
Pre curfew	10	0	Pass
Post curfew	2	0	Pass
Building Luminance (cd/m²)	10		

Total Electrical consumption per year (Kwh) 9,819.96

Average luminaire lumens per circuit Watt 110.83

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

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

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
Car Park	Illuminance	Lux	21.51	64	6	0.28	0.09
Service Access Road	Illuminance	Lux	22.03	50	9	0.41	0.18
Service Yard	Illuminance	Lux	33.86	111	10	0.30	0.09

Luminaire Schedule

Symbol	Qty	Label	Arrangement	Description
A	8	A	SINGLE	61w (3 module) Italo 1 with STE-M Optic column mounted at 6m.
B	1	B	BACK-BACK	41.5w (2 module) Italo 1 with STE-M Optic column mounted at 6m.
C	3	C	SINGLE	61w (3 module) Italo 1 with STE-M Optic column mounted at 6m.
D	3	D	SINGLE	78w (4 module) Italo 1 with STE-M Optic wall mounted at 6m.
E	5	E	SINGLE	114w (18 LED) wide Beam TLED PRO Floodlight wall mounted at 8m.
F	3	F	TWIN 40 DEGREE	114w (18 LED) wide Beam TLED PRO Floodlight column mounted at 8m.

Revision	Date	Description	Initials

Kingfisher Lighting

Members Of

HEMSA

ILP Institution of Lighting Professionals · Night Industry Association

SAFCA Ancillary Contractor

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Project Title

Proposed Development Gateway 36, Dearne Valley Parkway, Barnsley

Scale	Project No
1:500 at A1	D26521
Date	Drawing No
13/7/2015	D26521/PY/A

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