

1. THIS SERVICES DRAWING IS TO BE READ IN CONJUNCTION WITH QODA'S, THE ARCHITECTURAL & STRUCTURAL ENGINEER'S SPECIFICATION / DRAWINGS.

LIGHTING LAYOUTS

THE LIGHTING HAS BEEN DESIGNED TO MINIMISE LIGHT SPILL AND THE IMPACT ON THE LOCAL ECOLOGY. ENSURING LIGHT SPILL TO THE ENTRANCES OF THE BAT ACCESS SHAFTS IS KEPT BELOW THE RECOMMENDED VALUES IN BELOW GUIDANCE:

- UP GMS1 - THE REDUCTION OR OUTSIDE LIGHT
- UP GMS8 - BATS AND ARTIFICIAL LIGHTING AT NIGHT

IN THIS SITE SCENARIO, ILLUMINANCE VALUES ARE RECOMMENDED TO BE KEPT AS LOW AS POSSIBLE WITH MAXIMUM VALUES OF 0.2 LUX ON THE HORIZONTAL FLOOR ACCESS SHAFT AND 0.4 LUX ON THE VERTICAL ACCESS SHAFT.

THE MOUNTING LOCATIONS AND HEIGHTS OF THE LUMINAIRES HAVE BEEN CAREFULLY CONSIDERED TO ENSURE LIGHT SPILL IS CONTROLLED AS MUCH AS POSSIBLE.

COLOUR TEMPERATURE

THE LANDSCAPE LUMINAIRES ARE PROPOSED TO BE 2700K.

LUMINAIRES

THE BELOW SPECIFIED LUMINAIRE HAVE AN UPWARD LIGHT RATIO OF LESS THAN 5%, AS RECOMMENDED FOR AND E3 ENVIRONMENTAL ZONE WITHIN UP GMS2.

EXTERNAL CANOPY LUMINAIRE - EX1	
MANUFACTURER	IGLIZINI
MODEL	LASERBLADE INOUT
DESCRIPTION	LINEAR DOWNLIGHT
TYPICAL OUTPUT	2700K 450lm
MOUNTING HEIGHT	CANOPY MOUNTED

EXTERNAL BOLLARD LUMINAIRE - EX3	
MANUFACTURER	SELUX
MODEL	INULA
DESCRIPTION	BOLLARD
TYPICAL OUTPUT	2700K 900lm
MOUNTING HEIGHT	900mm

EXTERNAL CANOPY LUMINAIRE - EX7	
MANUFACTURER	LED LINEAR
MODEL	200xLIGHT
DESCRIPTION	LINEAR LIGHT OF LIGHT
TYPICAL OUTPUT	2700K 690lm
MOUNTING HEIGHT	CANOPY MOUNTED

IN ADDITION TO THE ABOVE, THE FOLLOWING LUMINAIRE HAVE BEEN SPECIFIED FOR FEATURE LIGHTING. CAREFUL CONSIDERATION HAS BEEN GIVEN TO THEIR LOCATIONS, OPTICAL CONTROL AND OUTPUTS TO MINIMISE UPWARD LIGHT WASTE, AS RECOMMENDED IN 'UP GMS1'.

EXTERNAL UPLIGHT LUMINAIRE - EX2	
MANUFACTURER	IGLIZINI
MODEL	SPOTLIGHT
DESCRIPTION	SPOTLIGHT
TYPICAL OUTPUT	2700K 450lm
MOUNTING HEIGHT	MOUNTED ON TOP OF CANOPY LIGHTING PACKAGE

EXTERNAL UPLIGHT LUMINAIRE - EX4	
MANUFACTURER	IGLIZINI
MODEL	LIGHT UP
DESCRIPTION	BLADE UPLIGHT
TYPICAL OUTPUT	2700K 31.2lm
MOUNTING HEIGHT	IN GROUND

EXTERNAL CANOPY LUMINAIRE - EX5	
MANUFACTURER	COLLINGWOOD
MODEL	GLD45X30
DESCRIPTION	UPLIGHT
TYPICAL OUTPUT	2700K 610lm
MOUNTING HEIGHT	IN GROUND

SWITCHING, CONTROL AND HOURS OF OPERATION

EXTERNAL LIGHTING TO BE CONTROLLED VIA TIME CLOCK AND PIR SENSORS.

CALCULATION AND ASSUMPTIONS

A MODEL OF THE SITE WAS CREATED IN LIGHTING CALCULATION SOFTWARE AND THE PROPOSED EXTERNAL LIGHTING APPLIED.

A MAINTENANCE FACTOR OF 1 WAS APPLIED TO THE CALCULATION TO ENSURE A WORST CASE SCENARIO WAS CALCULATED.

HORIZONTAL ILLUMINANCE

A HORIZONTAL CALCULATION PLANE WAS LOCATED AT FLOOR LEVEL ACROSS THE SITE. THE RESULTS OF WHICH HAVE BEEN SHOWN IN THE FORM OF ISOLINES ON THE ADJACENT DRAWING.

ISOLUX KEY

- 0.2 LUX
- 0.5 LUX
- 1 LUX
- 5 LUX
- 10 LUX

A LOCAL HORIZONTAL CALCULATION PLANE WAS ALSO LOCATED AT THE SITE OF THE FLOOR ACCESS SHAFT, AS NOTED ON THE ADJACENT DRAWING. THE RESULTS OF WHICH CAN BE SEEN BELOW:

HORIZONTAL FLOOR ACCESS SHAFT  
MAXIMUM ILLUMINANCE: 0.3 LUX (MAX 0.2 LUX RECOMMENDED)

VERTICAL ILLUMINANCE

A LOCAL VERTICAL CALCULATION PLANE WAS ALSO LOCATED AT THE SITE OF THE VERTICAL ACCESS SHAFT, AS NOTED ON THE ADJACENT DRAWING. THE RESULTS OF WHICH CAN BE SEEN BELOW:

VERTICAL ACCESS SHAFT  
MAXIMUM ILLUMINANCE: 0.22 LUX (MAX 0.4 LUX RECOMMENDED)

DO NOT SCALE

P4	PLANNING ISSUE	13.10.2023
P3	PLANNING ISSUE	02.10.2023
P2	PLANNING ISSUE	29.09.2023
P1	PLANNING ISSUE	27.09.2023
Rev	Description	Date



Client:

Alfred Gillet Trust

Project:

Alfred Gillet Trust Museum

Drawing Title:

Electrical External Lighting

Isolux Contour Plan

Designed: Drawn: Checked: Scale: Paper Size:

BP TH 1:100 A0

Drawing Number: Rev:

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0 1.200 4m 8m 12m 16m

