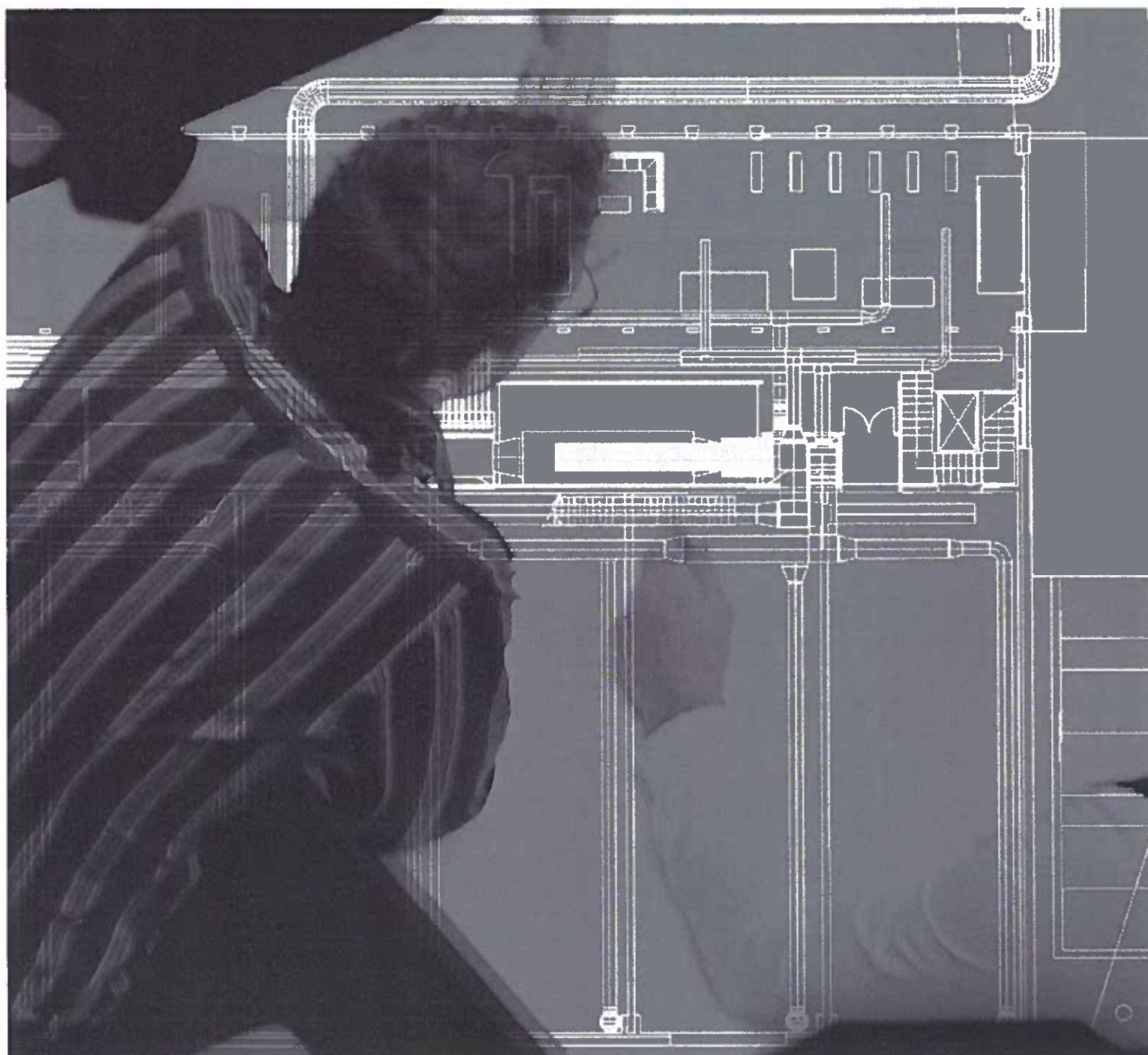


Kings Cross J1 Arthouse

Response to Planning Condition 5



Tel: +44 (0) 20 3668 7100

Western Transit Shed
12-13 Stable Street
London N1C 4AB

Audit Sheet

Rev.	Description	Prepared and checked by	Reviewed by	Date
0	Issue	PDK		25.07.13

This report is provided for the stated purposes and for the sole use of the named Client. It will be confidential to the Client and the client's professional advisers. Hoare Lea accepts responsibility to the Client alone that the report has been prepared with the skill, care and diligence of a competent engineer, but accepts no responsibility whatsoever to any parties other than the Client. Any such parties rely upon the report at their own risk. Neither the whole nor any part of the report nor reference to it may be included in any published document, circular or statement nor published in any way without Hoare Lea's written approval of the form and content in which it may appear.

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3.0	External lighting	3
4.0	Luminaire specification sheets	3
5.0	Appendix.....	4

3.0 External lighting

No external lighting has been provided to the York way elevation of the building as this side of the building will be illuminated by the street lighting.

The commercial units have been designed to shell and core and they will be responsible for providing any lighting to their demises as part of their fit-outs, therefore no lighting has been provided to the commercial units.

Lighting has been provided to the Handyside Park elevation of the building (shown in yellow in the location sketch in Section 2.0) to provide safe egress and entry to the building and building perimeter.

Please refer to the ground floor lighting and fire alarm drawings (drawing numbers 0208848-HL-XX-00-GA-E-690-0007 and 0008 Rev T6) located in the Appendix for luminaire locations and specification.

Recessed energy efficient downlights will be provided to the underside of the first floor slab canopy (Type XD on the drawings). These luminaires will be dimmable and connected to the Handyside Park lighting control system.

Surface mounted flood lights will be fixed to the first floor slab to illuminate the ramp and drop off area. These luminaires will also be connected to the Handyside Park lighting control system.

There will be minimal light spill into the first floor apartments from the fittings as they will be mounted to the building at first floor slab level and below the first floor slab canopy and the light distribution will be downwards. The lighting control system will enable the XD fitting to be dimmed and the Type XB and XP luminaires to be turned off at user-defined hours.

A photocell mounted to the north facing elevation of the building (near the ramp) will be connected to the Handyside Park lighting control system to control external lighting. The Handyside Park lighting control system will be integrated with the site wide network enabling the lighting to be adjusted and controlled. Manual override controls will also be located in the Handyside Park plant room (in J1 Arthouse) and the Broadgate Estate security office.

4.0 Luminaire specification sheets

The type XD, XB and XP luminaire specification sheets have been included. Please note the XB and XP fittings will be mounted pointing downwards and not as shown in the picture in the specification sheets, more detailed specification requirements are detailed in the legend of the drawings in the Appendix.

PROJECT DATA

PROJECT Kings Cross Building J
 DATE 20.06.13
 REFERENCE XB
 TYPE
 COMMENTS

LOCAL WE-EF REPRESENTATIVE

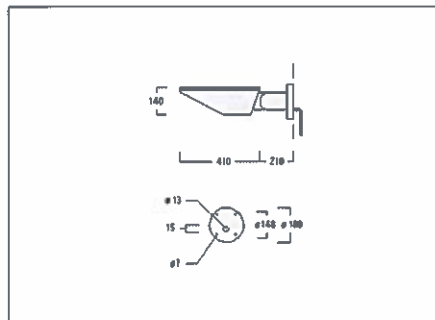
COMPANY London Post codes: SE, E & EC
 TELEPHONE 07768 766 119
 FAX 0844 880 5347
 EMAIL c.dunbar@we-ef.com

NOTE

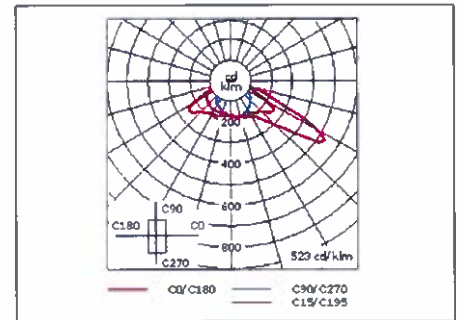
PRODUCT IMAGE



DIMENSIONS



LIGHT DISTRIBUTION



PRODUCT DESCRIPTION

DESCRIPTION 108-0417 PIA230 Wall Luminaires / Surface Mounted
 BEAM TYPE asymmetric, side throw beam
 LAMP TYPE HIT-CE 35W/c/830 G12
 LUMENS 3600
 CONTROL GEAR ECG

MAIN FEATURES

IP66, Class I, IK08. Marine-grade die-cast aluminium alloy. 5CE superior corrosion protection including PCS hardware. Silicone rubber gaskets. Safety glass. Anodised aluminium reflector. +30° tilt

TECHNICAL DATA

Important Information

- Integral control gear
- Remote emergency control pack available upon request
- Adjustable elevation integral to luminaire bracket

Design Information

- Total Wattage = 48W
- LOR = 64%
- Luminaire efficacy = 75Lm/W
- Weight = 8.5kg

General

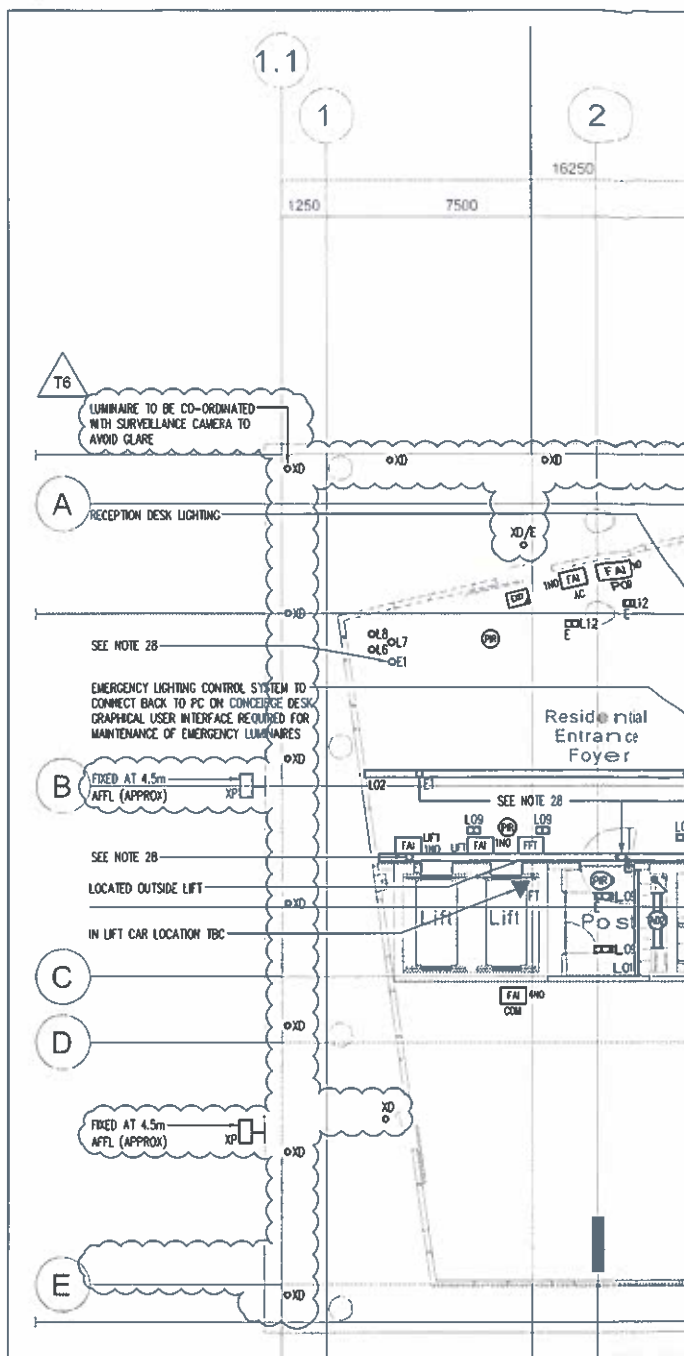
- Available in a variety of different lamp types and wattages
- Suitable for marine applications

5.0 Appendix

Ground floor lighting and fire alarm layouts:

0208848-HL-XX-00-GA-E-690-0007 Rev T6

0208848-HL-XX-00-GA-E-690-0008 Rev T6

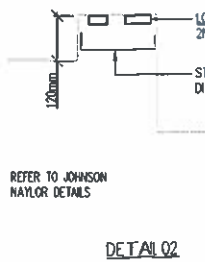
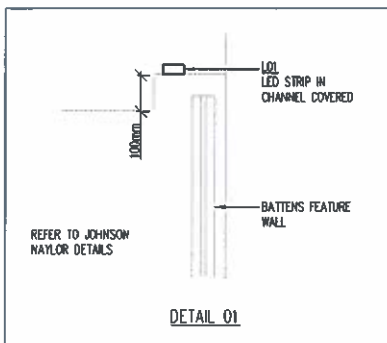


LIGHTING LEGEND:

- SINGLE GANG 20A SINGLE POLE SWITCH
- CEILING MOUNTED 360° PIR DETECTOR
- WALL MOUNTED 90° PIR DETECTOR
- SS SCENE SET SWITCHES
- WP WEATHER PROOF
- E DENOTES EMERGENCY LUMINAIRE. C/W SELF CONTAINED (INTEGRAL) 3 HOURS EMERGENCY BATTERY KIT & AUTO TEST FUNCTIONING WITH POTENTIAL FREE CONTACT
- PHILIP PAYNE ILLUMINATED EMERGENCY EXIT SIGNAGE LUMINAIRE. COMPLETE WITH 3HR INTEGRAL EMERGENCY BATTERY BACKUP
- AS [CODE] + SURFACE MOUNTED IP67 RATED EXIT SIGNAGE
- AS [CODE] + WITH DIRECTIONAL ARROWS
- AS [CODE] + DOUBLE SIDED WITH DIRECTIONAL ARROWS
- AS WHITECROFT ACF DURALITE. IP65 RATED, 2x35W T5
- AS WHITECROFT ACF DURALITE. IP65 RATED, 1x35W T5
- AS TRILUX POLARON WALL MOUNTED CIRCULAR LUMINAIRES. 4000 K COLOUR TEMPERATURE 1X55W T16-R
- AS PHILIP PAYNE TYPE STANDARD 3W LED WITH AUTO-TEST AND VOLT-FREE CONTACT TO CONNECT TO EMERGENCY LIGHTING SYSTEM
- AS EDWARD RAY INTERNATIONAL LTD. FUSION FLEX 2700K WITH OPAL DIFFUSER, DALI DIMMABLE. CONTINUOUS THIN LINEAR LED STRIP LIGHTS WITH NO DARK SPOTS MOUNTED AT TOP OF TIMBER WALL
- AS EDWARD RAY INTERNATIONAL LTD. FUSION FLEX 2700K WITH CLEAR DIFFUSER, DALI DIMMABLE. CONTINUOUS THIN LINEAR LED STRIP LIGHTS WITH NO DARK SPOTS MOUNTED BEHIND STRETCH FABRIC DIFFUSER. C/W NON-MAINTAINED 3W LED DOWNLIGHTS AS INDICATED ON THE LAYOUT.
- AS LO1 BUT WITH CLEAR DIFFUSER AND MOUNTED AT SORTING OF TIMBER WALL
- [CODE] AS SPECIFIED BY JOHNSON NAYLOR C/W 4x32W PL-T RECEPTION FEATURE PENDANT
- [CODE] AS SPECIFIED BY JOHNSON NAYLOR FEATURE LUMINAIRE.
- [CODE] AS SPECIFIED BY JOHNSON NAYLOR FEATURE LUMINAIRE.
- [CODE] AS SPECIFIED BY JOHNSON NAYLOR FEATURE LUMINAIRE.
- [CODE] AS SPECIFIED BY JOHNSON NAYLOR FEATURE LUMINAIRE.
- [CODE] AS DELTAUGHT, WINGROD IN RED WITH TRIM, 8W, 3000K CEILING RECESSED TWIN ADJUSTABLE LED DOWNLIGHTS
- [CODE] AS MODULAR LIGHTING, NOMAD 2xLED 900mm, ADJUSTABLE COLUMN DOWNLIGHTS, 3000K, C/W DALI DIMMABLE CONTROL GEAR AND C/W 3HRS INTERNAL BATTERY KIT.
- [CODE] AS PHOTONSTAR CEILING STAR DL, MERCURY 810, 30 DEG. CEILING RECESSED LED DOWNLIGHT
- [CODE] AS PHOTONSTAR CEILING STAR ED, MERCURY 810, 30 DEG. CEILING RECESSED LED DOWNLIGHT
- [CODE] AS LUXE LIGHT TECHNOLOGY, MONACO SLIM STRIP LED BACK TO BACK VERTICALLY WITHIN TOTEM, 9W, 12V, 3300K
- [CODE] AS WHITECROFT G-LINE SURFACE MOUNTED BULKHEAD TYPE LUMINAIRE. 1X28W 2D T5.
- [CODE] AS WHITECROFT ESPRIMO RECESSED CIRCULAR DOWNLIGHT 1X26W TC-0.
- [CODE] AS WE-ET DOC220, LED 12/24W, 3000K, 180° BEAM, RECESSED IP66 DOWNLIGHT, COMPLETE WITH DALI DIMMABLE CONTROL GEAR.
- [CODE] AS WHITECROFT EXTENSION 350. WALL MOUNTED EXTERNAL LUMINAIRE.
- [CODE] WALL MOUNTED PHOTO CELL FOR EXTERNAL LIGHTING CONTROL.
- [CODE] LOCAL RECEPTION LIGHTING CONTROL SYSTEM PANEL
- [CODE] AS WE-ET PIA230(S), 1X35W CDM-T, 3000K, IP66 WALL MOUNTED FLOOD LIGHT WITH SIDEWAYS ASYMMETRICAL BEAM DISTRIBUTION COMPLETE WITH INTEGRAL ELECTRONIC CONTROL GEAR
- [CODE] AS WE-ET PIA230(A), 1X35W CDM-T, 3000K, IP66 WALL MOUNTED FLOOD LIGHT WITH FORWARD ASYMMETRICAL BEAM DISTRIBUTION COMPLETE WITH INTEGRAL ELECTRONIC CONTROL GEAR

FIRE ALARM LEGEND:

- ANALOGUE ADDRESSABLE FIRE ALARM MANUAL BREAK GLASS UNIT
- ANALOGUE ADDRESSABLE FIRE ALARM SMOKE DETECTOR
- SD - DENOTES SMOKE DETECTOR
- HD - DENOTES HEAT DETECTOR
- CO - CARBON MONOXIDE DETECTOR
- 230V FIRE DETECTOR C/W COMBINED SOUND AND INTEGRATED BACK-UP BATTERY
- SD - DENOTES SMOKE DETECTOR
- HD - DENOTES HEAT DETECTOR
- ANALOGUE ADDRESSABLE ELECTRONIC SOUNDER
- ANALOGUE ADDRESSABLE FLASHING BEACON
- [CODE] NETWORKED FIRE ALARM PANEL
- [CODE] NETWORKED FIRE ALARM REPEATER PANEL
- ANALOGUE ADDRESSABLE FIRE ALARM INTERFACE
- LIFT - DENOTES LIFT
- GEN - DENOTES GENERATOR CONTROL PANEL
- COM - DENOTES COMMERCIAL UNIT
- MCC - DENOTES MOTOR CONTROL CENTRE
- FD - DENOTES MOTORISED FIRE DAMPER
- No - DENOTES NUMBER OF INTERFACES
- [CODE] DISABLED REFUGE INTERCOM PANEL
- [CODE] DISABLED REFUGE INTERCOM
- [CODE] FIRE FIGHTING TELEPHONE IN LIFT CAR
- [CODE] FIRE FIGHTING TELEPHONE MAIN HANDSET

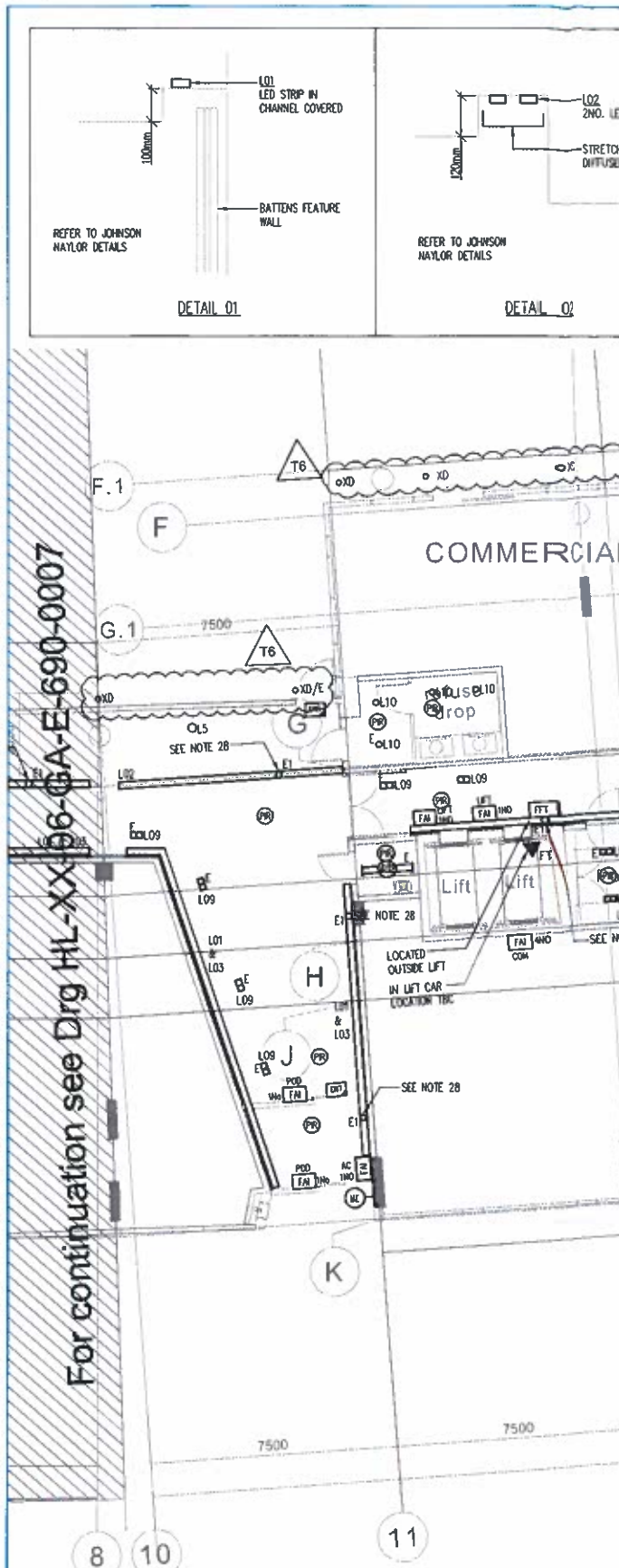


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- Any apparent drafting errors and differences between drawings and specifications shall be brought to our attention.
- All electrical installation shall conform to the latest edition of the wiring regulation BS 7671.
- General lighting levels should be in accordance with BS EN 12464-1.
- Final design of all lighting in all areas including colour finishes of luminaires, switches and other accessories shall be agreed with the interior designer, architect and lighting designer.
- 50% of basement lighting to be on 24/7 and 50% to be on presence detector activation.

Revisions	Drawn by	Checked by	Rev'd by	Date
T6	REVISOR	MAH	JUN 13	
T5	REVISOR	MAH	FEB 13	
T4	REVISOR	MAH	JAN 13	
T3	CRF02 UPDATE - FOR COMMENT	MAH	SEP 12	
T2	TENDER ISSUE	MAH	AUG 11	
T1	TENDER ISSUE	MAH	MAY 11	

Project No	0208848	Drawn & Checked by	DF	Reviewed by	DOC
Date	MAY 2011	Scale	1:100 @ A1	Issued Office	LONDON
Project Code	0208848	Orig.	HL	Zone	XX
		Level	00	Type	GA
		Rel.	E	Class	690
		Number	0007	Rev.	T6



LIGHTING LEGEND:

- SW SINGLE GANG 20A SINGLE POLE SWITCH
- PM CEILING MOUNTED 360° PIR DETECTOR
- WM WALL MOUNTED 90° PIR DETECTOR
- SS SCENE SET SWITCHES
- WP WEATHER PROOF
- E DENOTES EMERGENCY LUMINAIRE, C/W SELF CONTAINED (INTEGRAL) 3 HOURS EMERGENCY BATTERY KIT & AUTO TEST FUNCTIONING WITH POTENTIAL FREE CONTACT
- PLP PHILIP PAYNE ILLUMINATED EMERGENCY EXIT SIGNAGE LUMINAIRE, COMPLETE WITH 3HR INTEGRAL EMERGENCY BATTERY BACKUP
- AS [Symbol] + SURFACE MOUNTED IP67 RATED EXIT SIGNAGE
- AS [Symbol] + WITH DIRECTIONAL ARROWS
- AS [Symbol] + DOUBLE SIDED WITH DIRECTIONAL ARROWS
- AS [Symbol] AS WHITECROFT ACF DURALITE, IP65 RATED, 1x35W T5
- AS [Symbol] AS WHITECROFT ACF DURALITE, IP65 RATED, 1x35W T5
- AS [Symbol] AS TRILUX POLARON WALL MOUNTED CIRCULAR LUMINAIRES, 4000 K COLOUR TEMPERATURE 1X55W T16-R
- AS [Symbol] AS PHILIP PAYNE TWE STANDARD 3W LED WITH AUTO-TEST AND VOLT-FREE CONTACT TO CONNECT TO EMERGENCY LIGHTING SYSTEM
- LO1 AS EDWARD RAY INTERNATIONAL LTD. FUSION FLEX 2700K WITH OPAL DIFFUSER, DALI DIMMABLE, CONTINUOUS LINEAR TWIN LED STRIP LIGHTS WITH NO DARK SPOTS MOUNTED AT TOP OF TIMBER WALL
- LO2 AS EDWARD RAY INTERNATIONAL LTD. FUSION FLEX 2700K WITH CLEAR DIFFUSER, DALI DIMMABLE, CONTINUOUS TWIN LINEAR LED STRIP LIGHTS WITH NO DARK SPOTS MOUNTED BEHIND STRETCH FABRIC DIFFUSER
- LO3 AS LO1 BUT WITH CLEAR DIFFUSER AND MOUNTED AT SORTING OF TIMBER WALL
- LO4 AS SPECIFIED BY JOHNSON NAYLOR C/W 4x32W PL-T RECEPTION FEATURE PENDANT
- OL5 AS SPECIFIED BY JOHNSON NAYLOR FEATURE LUMINAIRE
- OL6 AS SPECIFIED BY JOHNSON NAYLOR FEATURE LUMINAIRE
- OL7 AS SPECIFIED BY JOHNSON NAYLOR FEATURE LUMINAIRE
- OL8 AS SPECIFIED BY JOHNSON NAYLOR FEATURE LUMINAIRE
- OL9 AS DELTAUGHT, MINIRO IN REO WITH TWIN, 8W, 3000K CEILING RECESSED TWIN ADJUSTABLE LED DOWNLIGHTS
- OL12 AS MODULAR LIGHTING, NOMAD 2x4LED 900mm, ADJUSTABLE COLUMN DOWNLIGHTS, 3000K, C/W DALI DIMMABLE, CONTROL GEAR AND C/W 3HRS INTERNAL BATTERY KIT
- OL10 AS PHOTONSTAR CEILING STAR DL, MERCURY 810, 30 DEG. CEILING RECESSED LED DOWNLIGHT
- OL13 AS PHOTONSTAR CEILING STAR ED, MERCURY 810, 30 DEG. CEILING RECESSED LED DOWNLIGHT
- LSH AS LUX LIGHT TECHNOLOGY, MONACO SLIM STRIP LED BACK TO BACK VERTICALLY WITHIN TOTEM, 9M, 12V, 3300K
- E AS WHITECROFT G-LINE SURFACE MOUNTED BULKHEAD TYPE LUMINAIRE, 1X20W 2D T5
- J AS WHITECROFT ESPRIT RECESSED CIRCULAR DOWNLIGHT 1X26W TC-D
- XD AS WE EF DOC220, LED 12/24W, 3000K, WIDE BEAM, RECESSED IP66 DOWNLIGHT, COMPLETE WITH DALI DIMMABLE CONTROL GEAR
- HE AS WHITECROFT CONTURION 350, WALL MOUNTED EXTERNAL LUMINAIRE
- PC WALL MOUNTED PHOTO CELL FOR EXTERNAL LIGHTING CONTROL
- LCP LOCAL RECEPTION LIGHTING CONTROL SYSTEM PANEL
- XB AS WE-EF PIA230(S), 1X35W COM-T, 3000K, IP66 WALL MOUNTED FLOOD LIGHT WITH SIDEWAYS ASYMMETRICAL BEAM DISTRIBUTION COMPLETE WITH INTEGRAL ELECTRONIC CONTROL GEAR
- XP AS WE-EF PIA230(A), 1X35W COM-T, 3000K, IP66 WALL MOUNTED FLOOD LIGHT WITH FORWARD ASYMMETRICAL BEAM DISTRIBUTION COMPLETE WITH INTEGRAL ELECTRONIC CONTROL GEAR

FIRE ALARM LEGEND:

- MANUAL BREAK GLASS UNIT
- ANALOGUE ADDRESSABLE FIRE ALARM SMOKE DETECTOR
- SD - DENOTES SMOKE DETECTOR
- HD - DENOTES HEAT DETECTOR
- CO - CARBON MONOXIDE DETECTOR
- 230V 230V FIRE DETECTOR C/W COMBINED SOUNDER AND INTEGRATED BACK-UP BATTERY
- SD - DENOTES SMOKE DETECTOR
- HD - DENOTES HEAT DETECTOR
- ANALOGUE ADDRESSABLE ELECTRONIC SOUNDER
- ANALOGUE ADDRESSABLE FLASHING BEACON
- NETWORKED FIRE ALARM PANEL
- NETWORKED FIRE ALARM REPEATER PANEL
- ANALOGUE ADDRESSABLE FIRE ALARM INTERFACE UNIT
- AC - DENOTES ACCESS CONTROL
- MCC - DENOTES MOTOR CONTROL CENTRE
- FD - DENOTES FIRE DAMPER
- DISABLED REFUGE INTERCOM PANEL
- DISABLED REFUGE INTERCOM
- FIRE FIGHTING TELEPHONE IN LIFT CAR
- FIRE FIGHTING TELEPHONE MAIN HANDSET
- AD - CONNECTED TO ADV SMOKE VENT SYSTEM
- CP - CONNECTED TO CAR PARK SMOKE VENT SYSTEM
- GEN - DENOTES GENERATOR CONTROL PANEL
- COM - DENOTES COMMERCIAL UNIT
- POD - DENOTES POWERED DOORS
- NO - DENOTES NUMBER OF INTERFACES

NOTES:

1. The drawing does not necessarily show all the information needed to interpret the design intent or for construction details.
2. The drawing contains information from more than one source and must be read in conjunction with all relevant specifications.
3. Any apparent drafting errors and differences between drawings and specifications shall be brought to our attention.
4. All electrical installation shall conform to the latest edition of the wiring regulation BS 7671.
5. General lighting levels should be in accordance with CIBSE codes for interior and exterior lighting BS EN 12464-1 & secure by design requirements.
6. Final design of all lighting in all areas (including colour and finishes of luminaires, switches and other accessories) to be agreed with the interior designer, Architect and lighting designer.
7. 50% of basement lighting to be on 24/7 and 50% to be on presence detector activation.

Revisions	Description	Drawn & Ctd by	Rev'd by	Date
T6	REVISED CANOPY LIGHTING TO SUIT SPOTLIGHTS & MAJOR SCHEME DESIGN AND REVISIONS	POK	MAH	JUN 13
T5	REVISED IN LINE WITH CRF 02	POK	MAH	FEB 13
T4	REVISED IN LINE WITH CRF 0021	POK	MAH	JAN 13
T3	CRF02 UPDATE - FOR COMMENT	POK	MAH	SEP 12
T2	TENDER ISSUE	PRB	POK	AUG 11
T1	TENDER ISSUE	DF	DOC	MAY 11

CAD ORIGINAL - NOT TO BE MODIFIED BY HAND

Project Title

KING CROSS CENTRAL BUILDING J

Project Title

ELECTRICAL SERVICES
GROUND FLOOR LIGHTING
CONTROL & FIRE ALARM LAYOUT
SHEET 2 OF 2

CRF 02

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POWELL

Project No	Drawn & Checked by	Reviewed by
0208848	DF	DOC
Date	Scale	Issuing Office
MAY 2011	1:100 @ A1	LONDON
DRAWING NUMBER		
Project Code	Disc	Level
0208848	HL	XX
Disc	Level	Code
00	GA	E
Disc	Level	Code
690	0008	T6