



20A TYPE C MCB, 1-PHASE CIRCUIT, 4MM² SINGLES/CONDUIT

32A TYPE C MCB, 3-PHASE CIRCUIT, 10MM² SINGLES/CONDUIT

2.5mm² 3c XLPE/SWA/LSF L, N, E

2.5mm² 3c FP200 (OR EQUAL) L, N, E

EXTERNAL LIGHTING
2-WAY
DISTRIBUTION BOARD
REF: DB/EXT LTG

100A
DNO

NEW DNO LV SERVICE
FROM SUBSTATION

POWER SYSTEM RACK T1/1 OUTPUT CHANNEL ALLOCATION

- T1/1/1 - SWITCH OUTPUT - T1.3.1A 4xTA CANOPIES
- T1/2/3/1 - DMX TO T1.3.1A 4xTA CANOPIES
- T1/1/2 - SWITCH OUTPUT - T1.3.1B 8xTA CANOPIES
- T1/1/3 - SWITCH OUTPUT - T1.3.1C 5xTA CANOPIES
- T1/2/3/2 - DMX TO T1.3.1B&C 13xTA CANOPIES
- T1/1/4 - SWITCH OUTPUT - T1.3.2A 10xTB FITTINGS
- T1/2/1/1 - 0-10V OUTPUT - T1.3.2A 10xTB FITTINGS
- T1/1/5 - SWITCH OUTPUT - T1.3.2B 10xTB FITTINGS
- T1/2/1/3 - 0-10V OUTPUT - T1.3.2B 10xTB FITTINGS
- T1/1/6 - SWITCH OUTPUT - T1.3.3 4xTB FITTINGS
- T1/2/1/4 - 0-10V OUTPUT - T1.3.3 4xTB FITTINGS
- T1/1/7 - SWITCH OUTPUT - T1.2.4 10xTC FITTINGS
- T1/1/8 - SWITCH OUTPUT - T1.2.5 3xTD FITTINGS
- T1/1/9 - SWITCH OUTPUT - T1.2.6 2xTE CANOPIES
- T1/2/2/1 - DALI OUTPUT - T1.2.4 (10xTC), T1.2.5 (3xTD), T1.2.6 (2xTE) FITTINGS
- T1/1/10 - SWITCH OUTPUT - SPARE
- T1/1/11 - SWITCH OUTPUT - SPARE
- T1/1/12 - SWITCH OUTPUT - SPARE
- T1/1/14 - T1/1/24 BLANK

NOTE:- THESE CIRCUITS SHALL BE READ IN CONJUNCTION WITH EXTERNAL LIGHTING LAYOUT DRAWING Nos. 0212-KME-LA-E-01-0F-520, 0212-KME-LA-E-01-01-521, 0212-KME-LA-E-01-02-522

- T1/2/1 - DMX TO 16 WAY 0-10V CONVERTER
- T1/2/2 - DMX TO DALI CONVERTER
- T1/2/3 - 4 PORT DMX NETWORK GATEWAY
- T1/2/4 - PoE SWITCH (MINIMUM 4 PORT)
- T1/2/5 - ERn2 ENCLOSURE - POWER STATION MODULE - PARADIGM ARCHITECTURAL CONTROL PROCESSOR
- T1/2/6 - DOCUMENTATION DRAW

BUILDING T1
T1/1
ETC SENSOR 3
POWER SYSTEM RACK
655mm (h) x
427mm (d) x
376mm (w)

BUILDING T1
T1/2
19" 18U LIGHTING
EQUIPMENT RACK
870mm (h) x
600mm (d) x
600mm (w)

BUILDING T1
T1/3
TOUCH SCREEN LOCAL CONTROL

BUILDING T1
T1/4
EXTERIOR PHOTO
ELECTRIC CELL

BUILDING T1
T1/5
SITE-WIDE OMT/ETHERNET NETWORK
SWITCH.
PORTS ASSIGNED TO vLAN ASSOCIATED
WITH THE SITE-WIDE LIGHTING SYSTEM
T1/6
SITE-WIDE FIBRE-OPTIC IFNL NETWORK
EQUIPMENT

CONNECTION TO SITE WIDE
FIBRE NETWORK

LEGEND - CABLING/WIRING

- DENOTES - DMX WIRING: BELDON 9729 2 PAIR SCREEN DATA CABLE.
- DENOTES - 1-10V DATA CONTROL WIRING: 1xCABLE COMPRISING OF 2x1.5mm² OR GREATER MAINS RATED CABLE.
- DENOTES - DALI DATA CONTROL WIRING: 1xCABLE COMPRISING OF 2x1.5mm² MAINS RATED CABLE.
- DENOTES - LIGHTING POWER CABLE FROM THE LIGHTING POWER SYSTEMS RACK TO INDIVIDUAL SETS OF LIGHTING FITTINGS ON A PARTICULAR LIGHTING CIRCUIT.
- DENOTES - CAT5E DATA CABLE - (CAT5E POE).
- DENOTES - PARADIGM LIGHTING CONTROL PLATES WIRING: 1xLINKPOWER - BELDON 8471 TWISTED PAIR 1.5mm² ECHELON LINK POWER CABLE.
- DENOTES - SITE-WIDE FIBRE-OPTIC NETWORK.

PLEASE NOTE THE ABOVE CABLES ARE DETAILED FOR INTERNAL APPLICATION AND A DUCT OR EXTERIOR VERSION SHOULD BE SOURCED AND USED WHERE APPLICABLE.

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPEERS AND MAJOR LIGHTING DRAWINGS, SPECIFICATIONS AND SCHEDULES. IN THE EVENT OF CONFLICTING INFORMATION THE MATTER SHALL BE REFERRED TO THE CONTRACT ADMINISTRATOR.
2. FOR LOCATIONS OF EXTERNAL EMERGENCY LIGHTS AT FINAL EXIT DOORS REFER TO DRG. Nos. 0212-KME-LA-E-01-0F-221 & 0212-KME-LA-E-01-01-222.
3. ALL LOCATIONS OF EXTERNAL LUMINAIRES, AND CABLE ROUTES TO FIXTURES, SHALL BE AGREED WITH THE ARCHITECT.
4. LOCATIONS OF "TD" & "TE" COLUMN MOUNTED LIGHT FIXTURES SHALL BE AGREED WITH THE ARCHITECT AND STRUCTURAL ENGINEER, AND APPROVED BY NETWORK RAIL/HS1/ETC.
5. LIGHTING CONTROL SYSTEM TO BE OPERATED FROM THE KXC ESTATE CENTRAL CONTROL LOCATION AND SHALL BE COMMON AS INSTALLED ELSEWHERE ACROSS THE DEVELOPMENT (CONTROL LIGHTING LIMITED, CONTRACT 01865 877956). REFER TO THE SPEERS AND MAJOR LIGHTING CONTROL SPECIFICATION FOR FURTHER INFORMATION. TO BE LOCATED IN LEVEL 1.5 COMMS ROOM.
6. ALL BREAKERS IN POWER SYSTEM RACK SHALL BE 10A TYPE C 100mA RCBO (RESIDUAL CURRENT DEVICES).

LEGEND

TO BE READ IN CONJUNCTION WITH EXTERNAL LIGHTING CONTROL DRG. Nos: 0212-KME-LA-E-01-0F-520, 0212-KME-LA-E-01-01-521, 0212-KME-LA-E-01-02-522

- xx/x/x DENOTES POWER CCT
- xx/x/x/x DENOTES CONTROL CCT

Rev	Date	Description	Orig	Chkd
01	26.01.2016	ISSUED FOR COMMENT	DB	RB

Org Status: **FOR COMMENT**



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Client: **KIER CONSTRUCTION**

Project: **KINGS CROSS BUILDING T1**

Title: **EXTERNAL LIGHTING CONTROL SCHEMATIC**

Originator: DB	Checked: RB	Approved: SK
Scale: NTS	Sheet size: A1	Discipline: ELEC

Org No: **0212-KME-SC-E-01-00-211** Rev: **01**

All dimensions are in millimetres unless otherwise stated.
Do not scale. Do not amend by hand.
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