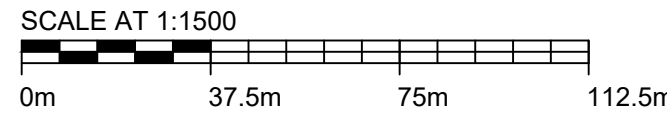


SITE MAP - HATCHED AREA DENOTES AREA OF REFURBISHMENT WORK
SCALE: 1:1,500@A0



ELECTRICAL SERVICES SPECIFICATION

GENERAL REQUIREMENTS

THE ELECTRICAL CONTRACTOR SHALL BE A REGISTERED MEMBER OF THE NICEIC AND/OR THE ECA. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPLY, INSTALLATION, CONNECTION, TESTING, COMMISSIONING AND SETTING TO WORK OF THE ELECTRICAL SERVICES INSTALLATIONS AS DETAILED ON THE PROJECT LAYOUT DRAWINGS AND THIS SPECIFICATION, IN STRICT ACCORDANCE WITH BS 7671: 2018 CURRENT EDITION.

NOTE THAT THIS PROJECT HAS BEEN DESIGNED TO RIBA STAGE 3 (PERFORMANCE SPECIFICATION) AND IS CONSIDERED TO BE A COMPLETE CONTRACTOR DESIGN PROJECT. THE DRAWINGS AND SPECIFICATION HEREAFER ARE DESIGN INTENT ONLY AND ARE TO DEFINE THE FINAL DESIRED OUTCOME ONLY. THE DRAWINGS BEING PRESENTED BY GLEEDS SHALL NOT BE USED AS A FINAL DESIGNED SCHEME. THE ELECTRICAL CONTRACTOR IS WHOLLY RESPONSIBLE FOR DEVELOPING THESE DRAWINGS AND TAKING THE PROJECT FROM RIBA STAGE 3 THROUGH TO RIBA STAGE 7.

THE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE APPROPRIATE BRITISH STANDARDS, ALL PROJECT TENDER DRAWINGS, THIS SPECIFICATION AND THE MAIN CONTRACT PRELIMINARIES, ALL OF WHICH WILL FORM THE BASIS OF THE CONTRACTORS TENDER OFFER.

THE ELECTRICAL CONTRACTOR SHALL SUBMIT A PRICE SCHEDULE FOR THE WORKS USING THE TENDER SUMMARY SHEETS ISSUED WITH THE TENDER INVITATION, (NOTE A LUMP SUM PRICE SHALL NOT BE ACCEPTED).

THE WORKS SHALL GENERALLY COMPRISE THE FOLLOWING:

- TESTING AND INSPECTING OF EXISTING ELECTRICAL SERVICES AS IDENTIFIED ON THE DRAWING
- NEW SMALL POWER INSTALLATIONS
- GENERAL REPLACEMENT OF ALL HALOGEN/NON LED LAMPS WITHIN THE EXISTING DOWNLIGHTS TO NEW DIMMABLE LED TYPE
- NEW LIGHTING AND EMERGENCY LIGHTING INSTALLATIONS
- GENERAL NEW AND RETAINED CONTAINMENT SYSTEMS
- EARTHING & BONDING
- O&M MANUALS
- TESTING AND COMMISSIONING
- 12 MONTHS DEFECTS LIABILITY

LV DISTRIBUTION SYSTEM

THE EXISTING LV DISTRIBUTION SYSTEM AND FINAL CIRCUITS SERVING THE EXISTING ELECTRICAL SERVICES SHALL BE RETAINED IN SITU.

THE ELECTRICAL CONTRACTOR SHALL ALLOW TO, PRIOR TO ANY FIRST FIXELECTRICAL WORKS, FULLY TEST, INSPECT AND VERIFY THE EXISTING INFRASTRUCTURE AND FINAL CIRCUITS ARE SUITABLE TO BE RETAINED, THE EXISTING NICEIC PERIODIC INSPECTION CERTIFICATE SHALL NOT BE RELIED ON, SHOULD ANY FINAL CIRCUITS BE DEEMED UNSUITABLE, A PROVISIONAL SUM OF £30,000 HAS BEEN INCLUDED WITHIN THE TENDER SUMMARY/GLEEDS PRICING DOCUMENT TO REPLACE AND INSTALL NEW.

THE EXISTING 12WAY TPAN DISTRIBUTION BOARD LOCATED WITHIN THE PLANT ROOM, REFERENCE 'DB13/1' OF MEM MEMSHIELD2 MANUFACTURE SHALL BE RETAINED IN SITU (SNO. EXISTING SPARE WAYS NOTED AS AVAILABLE), THE EXISTING FINAL CIRCUITS SERVING THE REFURBISHED AREAS DERIVED FROM DB13/1 SHALL BE RETAINED IN SITU EXCLUDING THE FOLLOWING:

- NEW 20AMPERE - RCBO C TYPE 30MA RADIAL CIRCUIT SERVING THE NEW COFFEE MACHINE AND ADJACENT SOCKET OUTLET
- NEW 10AMPERE - RCBO C TYPE 30MA LIGHTING CIRCUIT SERVING THE NEW EXTERNAL LIGHTS (EXISTING LIGHTING CIRCUITS ARE PERMITTED TO BE EXTENDED/ADAPTED HOWEVER THESE MUST BE VERIFIED AS SUITABLE BY THE CONTRACTORS IN-HOUSE CABLE CALCULATIONS - THE EXISTING MCB WILL NEED CHANGING TO A NEW 10AMPERE - RCBO C TYPE 30MA)
- NEW 10AMPERE - RCBO C TYPE 30MA LIGHTING CIRCUIT SERVING THE NEW PENDANTS WITHIN THE CONSERVATORY - (EXISTING LIGHTING CIRCUITS ARE PERMITTED TO BE EXTENDED/ADAPTED HOWEVER THESE MUST BE VERIFIED AS SUITABLE BY THE CONTRACTORS IN-HOUSE CABLE CALCULATIONS - THE EXISTING MCB WILL NEED CHANGING TO A NEW 10AMPERE - RCBO C TYPE 30MA)
- NEW 10AMPERE - RCBO C TYPE 30MA LIGHTING CIRCUIT SERVING THE NEW PENDANTS WITHIN THE 30 SOFT SEAT LOUNGE AREA - (EXISTING LIGHTING CIRCUITS ARE PERMITTED TO BE EXTENDED/ADAPTED HOWEVER THESE MUST BE VERIFIED AS SUITABLE BY THE CONTRACTORS IN-HOUSE CABLE CALCULATIONS - THE EXISTING MCB WILL NEED CHANGING TO A NEW 10AMPERE - RCBO C TYPE 30MA)

ELECTRICAL SERVICES SPECIFICATION

EXISTING ELECTRICAL SERVICES

ALL THE EXISTING ELECTRICAL SERVICES THROUGHOUT ALL AREAS INSTALLED WITHIN THE WALLS SHALL BE RETAINED IN SITU. THE ELECTRICAL CONTRACTOR SHALL ALLOW TO PROTECT OR SAFELY ISOLATE, DISCONNECT AND RE-INSTALL DURING THE REFURBISHMENT, ALL EXISTING AND REPLACED ELECTRICAL SERVICES SHALL BE FULLY FUNCTIONAL UPON COMPLETION OF THE REFURBISHMENT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THE RETAINED ELECTRICAL SERVICES ARE FULLY FUNCTIONAL, AS PER PRIOR CONDITION, UPON COMPLETION OF THE REFURBISHMENT.

ALL THE EXISTING ELECTRICAL SERVICES THROUGHOUT ALL AREAS, EXCLUDING THOSE IDENTIFIED ON THE DRAWING, INSTALLED WITHIN THE CEILING/SUSPENDED CEILING SHALL BE RETAINED IN SITU. THE ELECTRICAL CONTRACTOR SHALL ALLOW TO PROTECT OR SAFELY ISOLATE, DISCONNECT AND RE-INSTALL DURING THE REFURBISHMENT, ALL EXISTING AND REPLACED ELECTRICAL SERVICES SHALL BE FULLY FUNCTIONAL UPON COMPLETION OF THE REFURBISHMENT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THE RETAINED ELECTRICAL SERVICES ARE FULLY FUNCTIONAL, AS PER PRIOR CONDITION, UPON COMPLETION OF THE REFURBISHMENT.

SHOULD ANY EXISTING ELECTRICAL SERVICES BE FOUND TO BE REDUNDANT, THE ELECTRICAL CONTRACTOR SHALL SAFELY ISOLATE, DISCONNECT AND REMOVE.

SMALL POWER INSTALLATION

THE ELECTRICAL CONTRACTOR SHALL SUPPLY, INSTALL, CONNECT AND TEST A COMPLETE SMALL POWER SYSTEM INSTALLATION THROUGHOUT GENERALLY AS DETAILED ON THE PROPOSED LAYOUT DRAWINGS.

THE CONTRACTOR SHALL ALLOW FOR SUPPLYING EQUIPMENT WHERE SPECIFIED AND FOR MAKING FINAL CONNECTIONS TO ALLIANY ITEMS OF EQUIPMENT SUPPLIED AND FIXED BY OTHERS.

THE SMALL POWER INSTALLATION SHALL GENERALLY COMPRISE OF STANDARD 13 AMPERE SWITCHED SOCKET OUTLETS, ALL SMALL POWER SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS.

THE NEW SMALL POWER OUTLETS SHALL BE OF MK ELECTRIC MANUFACTURE:

LG LOGIC PLUS RANGE

GENERAL & EMERGENCY LIGHTING INSTALLATION

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE RETAINED AND NEW LIGHTING SUPPLY, INSTALLATION AND TESTING OF THE ENTIRE LIGHTING AND EMERGENCY LIGHTING INSTALLATIONS AS SHOWN ON THE DRAWING.

RETAINED LUMINAIRES

THE CONTRACTOR SHALL ALLOW TO SAFELY ISOLATE, REMOVE, TEST/INSPECT, CLEAN AND RE-INSTALL ALL THE NOTED RETAINED LUMINAIRES, SHOULD THESE LUMINAIRES BE DEEMED UNSUITABLE TO BE RETAINED, A PROVISIONAL SUM OF £2,000.00 HAS BEEN INCLUDED WITHIN THE TENDER SUMMARY/GLEEDS PRICING DOCUMENT TO REPLACE AND INSTALL NEW.

REPLACEMENT LAMPS

THE ELECTRICAL CONTRACTOR SHALL ALLOW TO REPLACE THE EXISTING DOWNLIGHTS AND ADJACENT SOCKET OUTLET. THE EXISTING DOWNLIGHTS SHALL BE REPLACED WITH NEW DIMMABLE LED TYPE LAMPS. THE ELECTRICAL CONTRACTOR SHALL REPLACE THE ENTIRE LUMINAIRE WITH NEW IN A LIKE FOR LIKE MANNER WITH DIMMABLE LED TYPE LAMPS.

NEW LUMINAIRES

THE ELECTRICAL CONTRACTOR SHALL INSTALL NEW LUMINAIRES IN THE LOCATIONS AS INDICATED ON THE DRAWINGS AND MAKE ALLOWANCES AS IDENTIFIED WITHIN THE LUMINAIRE SCHEDULE/LEGEND.

WHERE NEW LUMINAIRES ARE PROPOSED TO REPLACE EXISTING LUMINAIRES, THE ELECTRICAL CONTRACTOR SHALL INSTALL IN THE EXACT LOCATION RETAINING THE EXISTING FINAL CIRCUIT WIRING.

WHERE NEW LUMINAIRES ARE PROPOSED AND NO EXISTING FITTINGS ARE LOCATED, THE ELECTRICAL CONTRACTOR SHALL, AS DESCRIBED ON THE DRAWING AND WITHIN THIS SPECIFICATION, INSTALL A NEW FINAL LIGHTING CIRCUIT OR MODIFY AND ADAPT A LOCAL FINAL CIRCUIT TO SUIT.

ELECTRICAL SERVICES SPECIFICATION

GENERAL & EMERGENCY LIGHTING INSTALLATION (CONTINUED):

THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL LIGHTING SYSTEM IN ACCORDANCE WITH THE SOCIETY OF LIGHT AND LIGHTING, AND CIBSE LIGHTING GUIDES.

THE DRAWINGS ARE INDICATIVE ONLY AND THE ELECTRICAL CONTRACTOR SHALL, WHERE POSSIBLE, PRODUCE FULLY DESIGNED DRAWINGS AND CALCULATIONS INDICATING THE LUX LEVELS, UNIFORMITY LEVELS AND GLARE LEVELS IN ACCORDANCE TO THE SOCIETY OF LIGHT AND LIGHTING, AND CIBSE LIGHTING GUIDES.

UPON COMPLETION OF THE PROJECT, THE EXISTING RETAINED AND NEW LIGHTING/EMERGENCY LIGHTING SYSTEM SHALL BE FULLY OPERATIONAL AND FUNCTIONING AS REQUIRED BY THE CLIENT.

LUMINAIRES INSTALLED SUSPENDED FROM THE STRUCTURE OF THE BUILDING SHALL USE TRADITIONAL SUPPORT METHODS.

EMERGENCY LIGHTING INSTALLATIONS SHALL BE SUPPLIED, INSTALLED, TESTED AND CONNECTED BY THE CONTRACTOR IN ACCORDANCE WITH BS 5266:2016.

ALL EXTERNAL EMERGENCY LIGHTING LUMINAIRES SHALL BE SUPPLIED WITH INTEGRAL, FULLY AUTOMATIC, SELF-TESTING FACILITY, WHEREVER POSSIBLE.

ALL INTERNAL EMERGENCY LIGHTING LUMINAIRES SHALL BE TESTED VIA HIDDEN KEY TYPE TESTING SWITCHES TO MATCH THE EXISTING INSTALLATION, SHOULD ANY OF THESE AREA BE VIA SELF TEST TYPE, THE ELECTRICAL CONTRACTOR SHALL INSTALL SELF TEST TO MATCH.

SWITCHING

THE LIGHTING CONTROLS WITHIN THE BUILDING SHALL BE RETAINED IN SITU. THESE ARE GENERALLY VIA ROCKER TYPE SWITCHES FOR ON/OFF OPERATION, NEW LUMINAIRES SHALL BE OPERATED VIA NEW ROCKER TYPE SWITCHES OPERATING, ON/OFF AND INSTALLED ADJACENT WITHIN THE EXISTING SWITCH LOCATION RELEVANT TO THE CIRCUIT.

THE EXISTING DIMMABLE CONTROLS WITHIN THE BAR AREA SHALL BE RETAINED IN SITU, SHOULD REPLACEMENT LAMPS AND/OR NEW LAMPS BE INSTALLED ON THESE CIRCUITS, THE LAMPS SHALL BE FULLY COMPATIBLE WITH THE ROTARY TYPE DIMMERS.

FIRE ALARM SYSTEM

THE EXISTING FIRE ALARM SYSTEM IS OF GENT MANUFACTURE.

IT IS ASSUMED THAT NO WORKS TO THE EXISTING FIRE ALARM SYSTEM ARE REQUIRED EXCEPT FOR THE SAFE ISOLATION/PROTECTION OF DEVICES WITHIN THE AREA OF WORKS DURING THE REFURBISHMENT.

IT WAS HOWEVER NOTED THAT VARIOUS AREAS DID NOT HAVE SMOKE/HEAT DETECTION TO PROVIDE FULL COVERAGE TO AN L1 CLASSIFICATION AND THE SYSTEM IS NOTED AS AN L5 CATEGORY WITHIN THE FIRE RISK ASSESSMENT. SHOULD THE CLIENT VERIFY THESE AREAS ARE REQUIRED TO BE COVERED AND ADDITIONAL DETECTION INSTALLED, A PROVISIONAL SUM OF £15,000.00 HAS BEEN INCLUDED WITHIN THE TENDER SUMMARY/GLEEDS PRICING DOCUMENT TO INSTALL NEW AS FOLLOWS:

- 1NO. SMOKE SOUNDER WITHIN THE BAR AREA
- 1NO. HEAT SOUNDER WITHIN THE BAR/COOKING AREA
- 1NO. SMOKE SOUNDER WITHIN THE STORE ROOM
- 3NO. SMOKE DETECTORS WITHIN THE ACCESSIBLE CEILING VOID

SHOULD THESE WORKS BE REQUIRED, THE ELECTRICAL CONTRACTOR SHALL EMPLOY THE CLIENTS INCUMBENT FIRE ALARM SPECIALIST TO COMPLETE THESE WORKS, BELIEVED TO BE MITIE, OR AN APPROVED FIRE ALARM SPECIALIST.

SEGREGATION OF SERVICES

SERVICES SHALL BE SEGREGATED AS FOLLOWS -

1. CIRCUITS OPERATING AT LOW VOLTAGE AND CONNECTED TO THE MAINS SUPPLY (BAND II).
2. CIRCUITS FOR RADIO, IMPULSE CLOCKS, ALARM AND CALL SYSTEMS (BAND I).
3. FIRE ALARM CIRCUITS (BAND I). (MUST BE RUN SEPARATELY TO ALL OTHER CIRCUITS)
4. EMERGENCY LIGHTING WHERE CENTRAL BATTERY SYSTEMS ARE EMPLOYED (BAND II). (MUST NOT BE IN THE SAME WIRING SYSTEM AS FIRE ALARM CIRCUITS)
5. TELEPHONE CIRCUITS (BAND I).
6. COMPUTER DATA WIRING WHERE DEFINED IN OTHER SECTIONS OF THIS DOCUMENT (BAND I).

ELECTRICAL SERVICES SPECIFICATION

SEGREGATION OF SERVICES (CONTINUED):

BAND I AND BAND II CABLES SHALL BE INSTALLED WITH A MINIMUM SEPARATION DISTANCE AS FOLLOWS:

- DIFFERENT BANDS OF CABLES SHALL BE INSTALLED IN SEPARATE COMPARTMENTS OF TRUNKING/ENCLOSED CONTAINMENT AND/OR ON SEPARATE CONTAINMENT SYSTEMS.
- A MINIMUM SEPARATION DISTANCE OF 50MM SHALL BE MAINTAINED BETWEEN BANDS (EVEN IF CABLES ARE INSTALLED ON SEPARATE CONTAINMENT SYSTEMS).
- WHERE OPEN CONTAINMENT SYSTEMS ARE INSTALLED (BASKET/TRAY/LADDER) A MINIMUM DISTANCE OF 150MM IS REQUIRED BETWEEN CABLES.
- METALLIC SCREENING MAY BE SYSTEMS FREEDING THE DISTRIBUTION EQUIPMENT, LEAVING A FURTHER 3.5% MAXIMUM FOR THE FINAL CIRCUITS.
- UNDER NO CIRCUMSTANCES SHOULD FIRE ALARM CABLES BE INSTALLED WITH ANY OTHER CIRCUIT/CABLE. FIRE ALARM CABLES SHALL BE INSTALLED IN THEIR OWN COMPARTMENT WITHIN CONTAINMENT OR SEPARATELY ON OPEN CONTAINMENT. SCREENING IS PERMITTED HOWEVER MINIMUM DISTANCES STILL APPLY.

METHODS OF WIRING

WIRING COLOURS SHALL MEET BS 7671:2018.

LIGHTING AND SMALL POWER CABLING SHALL BE COMPLETED IN SUITABLY SIZED 62428 LSZH TWIN AND EARTH TYPE CABLES ROUTED CLIPPED DIRECT TO EXISTING/NEW CONTAINMENT CABLE TRAY/WIRE BASKET AND WITHIN CONTINUOUS GALVANNEDED/CV CONDUIT DROPS SURFACE FIXED WITHIN NEW WALL PARTITIONS WHERE THEY CONNECT TO THE ACCESSORY DROPPED POSITIONS. ALL BUILDING WORKS FINISHES SHALL BE COMPLETED BY OTHERS.

LUMINAIRES INSTALLED SUSPENDED FROM THE STRUCTURE OF THE BUILDING SHALL USE TRADITIONAL SUPPORT METHODS.

SIZING OF FINAL CIRCUITS

THE FINAL CIRCUIT CABLE SIZES DESIGNED BY THE ELECTRICAL CONTRACTOR SHALL BE CALCULATED IN ACCORDANCE WITH THE IET WIRING REGULATIONS TO SATISFY THE REQUIREMENTS OF RATING, VOLTAGE DROP AND EARTH IMPEDANCE.

FOR THIS PARTICULAR PROJECT, IT SHALL BE ASSUMED THAT 1.5% OF THE NOMINAL VOLTAGE HAS BEEN DROPPED ON THE SYSTEMS FREEDING THE DISTRIBUTION EQUIPMENT, LEAVING A FURTHER 3.5% MAXIMUM FOR THE FINAL CIRCUITS.

MINIMUM CABLE SIZES PERMITTED AS FOLLOWS:

POWER - 2.5MM²
LIGHTING - 1.5MM²

CONTAINMENT

THE EXISTING CONTAINMENT SYSTEM SHALL BE RETAINED IN ITS ENTIRETY.

THE CONTRACTOR SHALL, WHERE REQUIRED, EXTEND THE EXISTING CONTAINMENT SYSTEM TO SUPPORT THE NEW/RETAINED ELECTRICAL SERVICES AS INDICATED.

SYSTEMS ARE IN PLACE SUCH AS VARIOUS SIZED MEDIUM DUTY BASKET AND CABLE TRAY ALL CONNECTING TO PVC/GALVANNEDED CONDUIT ROUTING CABLES TO THE ELECTRICAL ACCESSORY OUTLETS. THE ELECTRICAL CONTRACTOR SHALL ENSURE THE EXISTING CONTAINMENT SYSTEMS ARE RETAINED AND MIKED WHERE EXTENDED PROVIDING A COMPLETELY REVERSABLE CABLE SYSTEM IS INSTALLED.

EARTHING AND BONDING

THE ELECTRICAL CONTRACTOR SHALL ALLOW TO MODIFY THE EXISTING EARTHING ARRANGEMENT AND SUPPLY, INSTALL, TEST AND CONNECT THE EARTHING SYSTEM IN ACCORDANCE WITH BS 7671:2018.

TESTING AND COMMISSIONING

THE WHOLE OF THE ELECTRICAL SERVICES INSTALLATIONS SHALL BE TESTED IN THE MANNER DESCRIBED WITHIN BS 7671:2018. NICEIC TEST RESULTS AND COMPLETION CERTIFICATES SHALL BE ISSUED ON COMPLETION.

BWIC & WORKING DRAWINGS

THE ELECTRICAL CONTRACTOR SHALL PROVIDE BWIC AND WORKING INSTALLATION DRAWINGS AND ISSUE THEM FOR COMMENT TO THE PROFESSIONAL TEAM.

OPERATING & MAINTENANCE MANUALS

THE ELECTRICAL CONTRACTOR SHALL PREPARE AND ISSUE A FULL OPERATING & MAINTENANCE MANUAL, ON AS FITTED DRAWINGS. ONE OF THE DOCUMENTS SHALL BE ISSUED TO THE CONTRACT ADMINISTRATOR FOR COMMENT AT LEAST 2 WEEKS PRIOR TO COMPLETION OF THE PROJECT. IN ADDITION TO THE ABOVE, A FULL VERSION OF THE MANUAL SHALL BE ISSUED WITH DRAWINGS IN PDF FORMAT AND ON CD. THE ELECTRICAL CONTRACTOR SHALL INCLUDE FOR ARRANGING & ATTENDING A USER TUITION ON NEARING COMPLETION OF THE PROJECT.

12 MONTH DEFECT LIABILITY

THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS TENDER FOR RECTIFYING AT NO COST TO THE EMPLOYER, CORRECTLY REPORTED DEFECTS IDENTIFIED FOR THE FIRST 12 MONTHS PERIOD FOLLOWING THE ISSUE DATE OF THE PRACTICAL COMPLETION.

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NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION, ARCHITECTURAL, STRUCTURAL AND ALL OTHER RELEVANT TENDER DRAWINGS.
2. LOCATIONS OF ALL THE ACCESSORIES INCLUDING LIGHT FITTINGS, SWITCHES, SOCKETS ETC. SHALL BE MARKED OUT ON SITE BY THE CONTRACTOR FOR THE CLIENT DESIGN TEAM TO REVIEW AND APPROVE PRIOR TO FIRST FIX WORKS COMMENCING.
3. THE ELECTRICAL SERVICES INSTALLATIONS UNDERTAKEN BY THE CONTRACTOR SHALL BE IN STRICT ACCORDANCE WITH BS-7671:2018 (MOST RECENT VERSION).
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FULL COORDINATION OF THE SERVICES WITH ALL OTHER TRADES AND THE STRUCTURE.
5. THE EMERGENCY LIGHTING INSTALLATIONS SHALL MEET THE REQUIREMENTS OF BS-5266.
6. THE FIRE ALARM SYSTEM SHALL MEET THE REQUIREMENTS OF BS-5839:2017 TO CATEGORY L5.

SMALL POWER LEGEND	
	DISTRIBUTION BOARD
	TWIN 13A SWITCHED SOCKET OUTLET
	DENOTES EXISTING DEVICE
	NEW
LIGHTING LEGEND	
	DOWNLIGHTER - EXISTING HALOGEN TYPE WITHIN CEILING GRID - REPLACE EXISTING LAMP WITH LED TYPE (DIMMABLE)
	DOWNLIGHTER - EXISTING HALOGEN TYPE WITHIN PERIMETER DOWNSTAND - REPLACE EXISTING LAMP WITH LED TYPE (DIMMABLE)
	EXISTING WALL GLS TYPE UP/LIGHT - REPLACE WITH NEW LED DECORATIVE PENDANT - FINAL LUMINAIRE SELECTION TRC - THE CONTRACTOR SHALL ALLOW FOR A SUM OF £120.00 PER FITTING
	CHANDLER GLS PENDANT LIGHT SET - REPLACE WITH NEW LED DECORATIVE PENDANT - FINAL LUMINAIRE SELECTION TRC - THE CONTRACTOR SHALL ALLOW FOR A SUM OF £200.00 PER FITTING
	NEW LED PENDANT - FINAL LUMINAIRE SELECTION TRC - THE CONTRACTOR SHALL ALLOW FOR A SUM OF £100.00 PER FITTING
	EXISTING EXTERNAL CFL TYPE WALL LIGHT - REPLACE WITH NEW EXTERNAL LED DECORATIVE EMERGENCY WALL LAMP C/W SELF TEST - FINAL LUMINAIRE SELECTION TRC - THE CONTRACTOR SHALL ALLOW FOR A SUM OF £150.00 PER FITTING
	DOWNLIGHTER - EXISTING LED TYPE WITHIN CEILING GRID - RETAIN IN SITU
	EMERGENCY DOWNLIGHTER - EXISTING LED TYPE WITHIN CEILING GRID - RETAIN IN SITU
	EXISTING SURFACE FIXED LINEAR FLUORESCENT LUMINAIRE - REPLACE WITH NEW SUITABLE IP65 RATED LED TYPE LUMINAIRE
	RECESSED MODULAR 60x60 LUMINAIRE - LED TYPE - RETAIN IN SITU
	RECESSED MODULAR 60x60 LUMINAIRE - TS TYPE LAMPS - RETAIN IN SITU - REPLACE WITH NEW SUITABLE LED TYPE LUMINAIRE
	RECESSED MODULAR 120x60 LUMINAIRE - LED TYPE - RETAIN IN SITU
	NEW EXTERNAL LED DECORATIVE EMERGENCY WALL LAMP C/W SELF TEST - FINAL LUMINAIRE SELECTION TRC - THE CONTRACTOR SHALL ALLOW FOR A SUM OF £150.00 PER FITTING
	EXISTING TS LAMP TYPE SELF CONTAINED 3 HR EMERGENCY LUMINAIRE (ON DIRECTIONAL LEGEND PANEL) - REPLACE EXISTING WITH NEW LED TYPE FITTING & HIDDEN KEY TEST
	EXISTING TS LAMP TYPE SELF CONTAINED 3 HR EMERGENCY LUMINAIRE (RECESSED) - REPLACE EXISTING WITH NEW LED TYPE FITTING & HIDDEN KEY TEST
	EXISTING LED TYPE SELF CONTAINED 3 HR EMERGENCY LUMINAIRE (RECESSED) - RETAIN AS EXISTING
	NEW LED LAMP TYPE SELF CONTAINED 3 HR EMERGENCY LUMINAIRE (ON DIRECTIONAL LEGEND PANEL & HIDDEN KEY TEST - INSTALL NEW DIRECTIONAL LEGEND PANEL - RETAIN AS EXISTING)
	EXISTING LED TYPE SELF CONTAINED 3 HR EMERGENCY LUMINAIRE (SURFACE FIXED) - REPLACE EXISTING WITH NEW LED TYPE FITTING & HIDDEN KEY TEST
	EXISTING LED LAMP TYPE SELF CONTAINED 3 HR EMERGENCY LUMINAIRE - REPLACE EXISTING WITH NEW LED TYPE FITTING C/W DIRECTIONAL LEGEND PANEL & HIDDEN KEY TEST
	EX
	DENOTES EXISTING FITTING
	NEW
	DENOTES NEW FITTING

THIS IS A DEVELOPED DESIGN DRAWING FOR A DESIGN AND BUILD PROJECT TO RIBA DESIGN STAGE 3. IT ILLUSTRATES THE DESIGN PHILOSOPHY AND SHOWS THE EXTENT OF THE SERVICES INSTALLATIONS. THE LOCATIONS OF HORIZONTAL AND VERTICAL RUNS ARE APPROXIMATE. THE CONTRACTOR SHALL MAKE ALLOWANCE TO COMPLETE THE TECHNICAL DESIGN AND FINALISE ANY CO-ORDINATION BETWEEN BUILDING SERVICES, STRUCTURE AND ARCHITECTURE IN THE PREPARATION OF THE TECHNICAL DESIGN DRAWINGS. THE CONTRACTOR SHALL MAKE ALLOWANCE TO SUPPLY, INSTALL, TEST AND COMMISSION FULLY OPERATIONAL SYSTEMS IN ORDER TO ACHIEVE THE EMPLOYERS REQUIREMENTS AND REQUIREMENTS DETAILED WITHIN THE PERFORMANCE SPECIFICATION.

ISSUED FOR TENDER

Rev.	Description	By	Date
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Client



THE NORWICH LOUNGE REFRESH

INDICATIVE ELECTRICAL SERVICES LAYOUT

Drawing No. NTBS4386-GLE-NL-ZZ-DR-E-3000

Scale 1-50 Original Sheet Size A0

Drawing Status TENDER

Drawn DRR Checked AN

Date MAY 2025 Rev. T01

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THE CONTRACTOR SHALL ALLOW TO SAFELY ISOLATE, REMOVE, TEST/INSPECT, CLEAN AND RE-INSTALL ALL THE NOTED RETAINED LUMINAIRES, SHOULD THESE LUMINAIRES BE DEEMED UNSUITABLE TO BE RETAINED, A PROVISIONAL SUM OF £2,000.00 HAS BEEN INCLUDED WITHIN THE TENDER SUMMARY/GLEEDS PRICING DOCUMENT TO REPLACE AND INSTALL NEW.

ALL THE EXISTING ELECTRICAL SERVICES THROUGHOUT ALL AREAS INSTALLED WITHIN THE WALLS SHALL BE RETAINED IN SITU. THE ELECTRICAL CONTRACTOR SHALL ALLOW TO PROTECT OR SAFELY ISOLATE, DISCONNECT AND RE-INSTALL DURING THE REFURBISHMENT, ALL EXISTING AND REPLACED ELECTRICAL SERVICES SHALL BE FULLY FUNCTIONAL UPON COMPLETION OF THE REFURBISHMENT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THE RETAINED ELECTRICAL SERVICES ARE FULLY FUNCTIONAL, AS PER PRIOR CONDITION, UPON COMPLETION OF THE REFURBISHMENT.

ALL THE EXISTING ELECTRICAL SERVICES THROUGHOUT ALL AREAS, EXCLUDING THOSE IDENTIFIED ON THE DRAWING, INSTALLED WITHIN THE CEILING/SUSPENDED CEILING SHALL BE RETAINED IN SITU. THE ELECTRICAL CONTRACTOR SHALL ALLOW TO PROTECT OR SAFELY ISOLATE, DISCONNECT AND RE-INSTALL DURING THE REFURBISHMENT, ALL EXISTING AND REPLACED ELECTRICAL SERVICES SHALL BE FULLY FUNCTIONAL UPON COMPLETION OF THE REFURBISHMENT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THE RETAINED ELECTRICAL SERVICES ARE FULLY FUNCTIONAL, AS PER PRIOR CONDITION, UPON COMPLETION OF THE REFURBISHMENT.

THE EXISTING 12WAY TPAN DISTRIBUTION BOARD REFERENCE 'DB13/1' OF MEM MEMSHIELD2 MANUFACTURE SHALL BE RETAINED IN SITU (SNO. SPARE WAYS AVAILABLE), THE EXISTING FINAL CIRCUITS SERVING THE REFURBISHED AREAS DERIVED FROM DB13/1 SHALL BE RETAINED IN SITU EXCLUDING THE FOLLOWING:

- NEW 20AMPERE - RCBO C TYPE 30MA RADIAL CIRCUIT SERVING THE NEW COFFEE MACHINE AND ADJACENT SOCKET OUTLET
- NEW 10AMPERE - RCBO C TYPE 30MA LIGHTING CIRCUIT SERVING THE NEW EXTERNAL LIGHTS (EXISTING LIGHTING CIRCUITS ARE PERMITTED TO BE EXTENDED/ADAPTED HOWEVER THESE MUST BE VERIFIED AS SUITABLE BY THE CONTRACTORS IN-HOUSE CABLE CALCULATIONS - THE EXISTING MCB WILL NEED CHANGING TO A NEW 10AMPERE - RCBO C TYPE 30MA)
- NEW 10AMPERE - RCBO C TYPE 30MA LIGHTING CIRCUIT SERVING THE NEW PENDANTS WITHIN THE CONSERVATORY - (EXISTING LIGHTING CIRCUITS ARE PERMITTED TO BE EXTENDED/ADAPTED HOWEVER THESE MUST BE VERIFIED AS SUITABLE BY THE CONTRACTORS IN-HOUSE CABLE CALCULATIONS - THE EXISTING MCB WILL NEED CHANGING TO A NEW 10AMPERE - RCBO C TYPE 30MA)
- NEW 10AMPERE - RCBO C TYPE 30MA LIGHTING CIRCUIT SERVING THE NEW PENDANTS WITHIN THE 30 SOFT SEAT LOUNGE AREA - (EXISTING LIGHTING CIRCUITS ARE PERMITTED TO BE EXTENDED/ADAPTED HOWEVER THESE MUST BE VERIFIED AS SUITABLE BY THE CONTRACTORS IN-HOUSE CABLE CALCULATIONS - THE EXISTING MCB WILL NEED CHANGING TO A NEW 10AMPERE - RCBO C TYPE 30MA)

PRIOR TO ANY FIRST FIXELECTRICAL WORKS, THE CONTRACTOR SHALL ALLOW TO FULLY TEST, INSPECT AND VERIFY THE EXISTING INFRASTRUCTURE AND FINAL CIRCUITS ARE SUITABLE TO BE RETAINED, THE EXISTING NICEIC PERIODIC INSPECTION CERTIFICATE SHALL NOT BE RELIED ON, SHOULD ANY FINAL CIRCUITS BE DEEMED UNSUITABLE, A PROVISIONAL SUM OF £30,000 HAS BEEN INCLUDED WITHIN THE TENDER SUMMARY/GLEEDS PRICING DOCUMENT TO REPLACE AND INSTALL NEW.

EXCLUDING WORKS TO THE DISTRIBUTION BOARD 'DB13/1', ALL OTHER ELECTRICAL SERVICES WITHIN THE CELLAR SHALL BE RETAINED IN SITU

GROUND FLOOR - THE NORWICH LOUNGE
SCALE: 1:50@A0