A0

WEST WING

LIGHTING - FIRST FLOOR CORRIDOR WEST WING
LIGHTING - FIRST FLOOR WEST WING WF9, WF12, STAIRCASE
LIGHTING - FIRST FLOOR WEST WING WF1 - WF21
RADIAL - SOCKET OUTLETS CORRIDOR 4No.
RADIAL - FIRE ALARM PSU SUPPLY
RADIAL - INTRUDER ALARM PSU SUPPLY
RADIAL - INTRUDER ALARM PSU 8XP
SPARE
SPARE
SPARE
SPARE
RADIAL - SURGE PROTECTIVE DEVICE

FP200 WHITE
6491B SINGLE CORE LSF
624ZB LSZH T&E
XLPE/SWA/LSF
AFDD
RCD

CABLE SIZE	1.5	1.5	1.5	4	2.5	2.5	2.5	2.5								16
MCB RATING	6	6	6	20	16	16	16	16								63
WAY REF	1	2	3	4	5	6	7	8	9	10	11	12				

12 WAY SP&N
MCB DISTRIBUTION BOARD
REF: LP01/1/L3
LOCATED: FIRST FLOOR WEST WING CORRIDOR AREA

32AMP SP&N ISOLATOR

1No. 3 CORE 6mm² XLPE/SWA/LSF CABLE

CENTRAL AREA

LIGHTING - FIRST FLOOR CUPOLA ROOM, PALM BEDROOM/DRESSING CP14
LIGHTING - FIRST FLOOR ORANGE BEDROOM, PINK BEDROOM, DRESSING ROOM CP13
LIGHTING - FIRST FLOOR ORANGE BEDROOM, PINK BEDROOM, DRESSING ROOM, CP15, CP8
LIGHTING - FIRST FLOOR EAST BEDROOM CP1, DRESSING, CP3, CP6
LIGHTING - GROUND FLOOR DRAWING & SALON ROOM
SPARE

FP200 WHITE
MICC BARE
6491B SINGLE CORE LSF
624ZB LSZH T&E
XLPE/SWA/LSF
AFDD
RCD

CABLE SIZE	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5								16
MCB RATING	6	6	6	6	6	6	6	6								63
WAY REF	1	2	3	4	5	6	7	8								

8 WAY SP&N 6 AMP
MCB INTEGRAL BOARD
REF: LSI/02
LOCATED: FIRST FLOOR CENTRAL AREA MAIN STAIRCASE

STATIC INVERTER

32AMP SP&N ISOLATOR

1No. 3 CORE 6mm² 6491B SINGLE CORE LSR CABLE

RING MAIN - YELLOW BEDROOM DRESSING & LOBBY
RING MAIN - ORANGE BEDROOM, PINK BEDROOM, DRESSING 4No.
RING - ORANGE BEDROOM & DRESSING 4No.
RING MAIN - EAST BEDROOM & DRESSING 4No.
RADIAL - 1ft PORT CCTV SWITCH
RADIAL - 1ft PORT CCTV TRANSMITTER
RADIAL - 16AMP MK COMMANDO SOCKET FILM
RADIAL - 16AMP MK COMMANDO SOCKET FILM
RADIAL - PSU INTRUDER ALARM
RADIAL - 16AMP MK COMMANDO SOCKET FILM
RADIAL - 16AMP MK COMMANDO SOCKET FILM
RADIAL - 16AMP MK COMMANDO SOCKET FILM
LIGHTING - CP15, CP14, CP32 CUPOLA STORE
LIGHTING - PORTICO
RADIAL - SUPPLY TO INTRUDER ALARM EXPANDER
RADIAL - 5 TO EMAIL TRANSMITTER LS/02
SPARE
SPARE
SPARE
SPARE
SPARE
RADIAL - SURGE PROTECTIVE DEVICE

MICC BARE H/D
MICC BARE LD
6491B SINGLE CORE LSF
624ZB LSZH T&E
XLPE/SWA/LSF
AFDD
RCD

CABLE SIZE	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	6													16
MCB RATING	32	32	32	32	16	16	16	16	16	16	16	16	16	16	16	16	16	16	32													63
PHASE REF	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
WAY REF	1			2			3			4			5			6			7			8										

8 WAY TP&N MCB DISTRIBUTION BOARD
REF: LP05
LOCATED: FIRST FLOOR CENTRAL AREA STAIRCASE STORE

63AMP TP&N ISOLATOR

1No. 4 CORE 16mm² XLPE/SWA/LSF CABLE

EAST WING

LIGHTING - EF4, EF5, EF3, EF1 FIRST FLOOR ROOM
LIGHTING - CORRIDOR, EF2, EF1
LIGHTING - LOFT AREA
RING MAIN - STAFF ROOM EF4
RING MAIN - EF5
RING MAIN - EF6, CORRIDOR
RADIAL - 1.5kW PANEL HEATER EF4
RADIAL - 1.5kW PANEL HEATER EF5
RADIAL - 1.5kW PANEL HEATER EF3
RADIAL - 1.5kW PANEL HEATER EF1
RADIAL - 1.5kW PANEL HEATER EF2
SPARE
LIGHTING - LOFT MUSIC, LIBRARY AREA
LIGHTING - LOFT STAIRCASE, CUPOLA, BEDROOMS
SPARE
SPARE
SPARE
SPARE
SPARE
RADIAL - SURGE PROTECTIVE DEVICE

MICC BARE H/D
MICC BARE LD
6491B SINGLE CORE LSF
624ZB LSZH T&E
XLPE/SWA/LSF
AFDD
RCD

CABLE SIZE	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.5	1.5												16
MCB RATING	6	6	6	6	6	20	20	20	20	16	16	16	16	16	16	16	16	16	6	6												63
PHASE REF	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
WAY REF	1			2			3			4			5			6			7			8										

8 WAY TP&N MCB DISTRIBUTION BOARD
REF: LP02/4/L1,L2,L3
LOCATED: FIRST FLOOR EAST WING

63AMP TP&N ISOLATOR

1No. 4 CORE 16mm² XLPE/SWA/LSF CABLE

ORANGERY

MICC BARE H/D
MICC BARE LD
6491B SINGLE CORE LSF
624ZB LSZH T&E
XLPE/SWA/LSF
AFDD
RCD

RADIAL - SURGE PROTECTIVE DEVICE

CABLE SIZE																16
MCB RATING																63
PHASE REF	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
WAY REF	1			2			3			4			5			6		

8 WAY TP&N DISTRIBUTION BOARD
REF: LP04
LOCATED: ORANGERY

SPD

160AMP TP&N ISOLATOR

1No. 4 CORE 50mm² XLPE/SWA/LSF CABLE
1No. SINGLE CORE 25mm² LSF AS CPC

GENERAL NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE ECS ELECTRICAL ENGINEERING SPECIFICATIONS.
2. THIS DRAWING IS INDICATIVE AND IS INTENDED TO HIGHLIGHT THE PROPOSED LOCATION FOR ELECTRICAL SERVICES. THE CONTRACTOR SHALL NOTE THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION PURPOSES. THE CONTRACTOR SHALL INCLUDE TO PRODUCE THEIR OWN WORKING DRAWINGS, TAKE DETAILED SITE MEASUREMENTS, INDICATE THE PROVISION OF BUILDERS WORKS AND COORDINATE THE INSTALLATION OF ALL SERVICES.
3. THE CONTRACTOR SHALL NOTE THIS DRAWING HAS BEEN PRODUCED USING LIMITED SITE SURVEY INFORMATION. THE CONTRACTOR SHALL INCLUDE TO CARRY OUT AN INTRUSIVE SURVEY AND TO PRODUCE DRAWINGS THAT REFLECT THE INSTALLATION.
4. ALL EQUIPMENT SHALL BE INSTALLED & LOCATED TO MAINTAIN SPATIAL REQUIREMENTS TO FACILITATE ACCESS & MAINTENANCE IN LINE WITH MANUFACTURERS RECOMMENDATIONS AND GOOD PRACTICE GUIDES.
5. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS GUIDELINES.
6. DO NOT SCALE FROM THIS DRAWING.
7. ALL DETAILS ARE APPLICABLE TO EVERY DRAWING UNLESS INDICATED OTHERWISE.
8. THE CONTRACTOR SHALL INCLUDE TO IDENTIFY THE COMPLETE EXISTING ELECTRICAL INSTALLATION, EXTEND AND ADAPT TO FACILITATE THE PROPOSED WORKS

DRAWING NOTES

SYMBOL	DESCRIPTION
⚠	THE CONTRACTOR SHALL INCLUDE FOR THE PC SUM TO ALLOW TEST & INSPECTION OF THE INCOMING MAINS AND ASSOCIATED TRANSFORMER WITHIN THE HALL BASEMENT SWITCHROOM AS HIGHLIGHTED WITHIN THE ELECTRICAL SPECIFICATION

FIRST FLOOR

LIGHTING - GROUND FLOOR CORRIDOR WEST WING
LIGHTING - GROUND FLOOR WEST WING WG1, WG5, WG12, WG27
LIGHTING - GROUND FLOOR WEST WING WG3, WG8, WG12, WG13
RADIAL - SOCKET OUTLETS CORRIDOR 4No.
RADIAL - FIRE ALARM POWER SUPPLY
RADIAL - INTRUDER ALARM POWER SUPPLY
RADIAL - INTRUDER ALARM POWER SUPPLY 8XP
SPARE
SPARE
SPARE
SPARE
RADIAL - SURGE PROTECTIVE DEVICE

FP200 WHITE
6491B SINGLE CORE LSF
624ZB LSZH T&E
XLPE/SWA/LSF
AFDD
RCD

CABLE SIZE	1.5	1.5	1.5	4	2.5	2.5	2.5	2.5								16
MCB RATING	6	6	6	20	16	16	16	16								63
WAY REF	1	2	3	4	5	6	7	8	9	10	11	12				

12 WAY SP&N
MCB DISTRIBUTION BOARD
REF: LP01/1/L2
LOCATED: GROUND FLOOR
WEST WING CORRIDOR AREA

32AMP SP&N ISOLATOR

1No. 3 CORE 6mm² XLPE/SWA/LSF CABLE

LIGHTING - BAKERY LIGHTING
RADIAL - SOCKET OUTLETS
RADIAL - INTRUDER ALARM
RADIAL - FIRE ALARM POWER SUPPLY
SPARE
SPARE
SPARE
SPARE
SPARE
SPARE
SPARE
RADIAL - SURGE PROTECTIVE DEVICE

FP200 WHITE
6491B SINGLE CORE LSF
624ZB LSZH T&E
XLPE/SWA/LSF
AFDD
RCD

CABLE SIZE	1.5	2.5	2.5	2.5	2.5											16
MCB RATING	6	20	16	16												63
WAY REF	1	2	3	4	5	6	7	8	9	10	11	12				

12 WAY SP&N
MCB DISTRIBUTION BOARD
REF: LP01/2/L2
LOCATED: BAKERY BUILDING

32AMP SP&N ISOLATOR

1No. 3 CORE 6mm² XLPE/SWA/LSF CABLE

38 MTS

RING MAIN - C08 3No.
INTRUDER ALARM PSU 2No.
RADIAL - 5 WAY WIRELESS TRANSMITTER
RING MAIN - DINING ROOM 3No.
RADIAL - FIRE ALARM CHARGING UNIT
RADIAL - CCTV PSU, CCTV DOME, PC OFFICE
RING MAIN - ENTRANCE HALL MAIN STAICASE 3No.
SPARE
POWER SUPPLY - LG, SZ, C07
POWER SUPPLY INTRUDER ALARM RADAR ROOF
POWER SUPPLY INTRUDER ALARM RADAR ROOF
POWER SUPPLY INTRUDER ALARM RADAR ROOF
POWER SUPPLY INTRUDER ALARM RADAR ROOF
POWER SUPPLY CCTV/SPEAKERS EAST
POWER SUPPLY CCTV/SPEAKERS WEST
SPARE
SPARE
SPARE
SPARE
RADIAL - SURGE PROTECTIVE DEVICE

MICC BARE H/D
MICC BARE LD
6491B SINGLE CORE LSF
624ZB LSZH T&E
XLPE/SWA/LSF
AFDD
RCD

CABLE SIZE	1.5	2.5	2.5	2.5	1.5	2.5	2.5	2.5	2.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5												16
MCB RATING	32	16	32	16	32	32	6	16	16	16	16	16	16	16	16	16	16	16	16	16												63
PHASE REF	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
WAY REF	1			2			3			4			5			6			7			8										

8 WAY TP&N MCB DISTRIBUTION BOARD
REF: LP03
LOCATED: GROUND FLOOR CENTRAL AREA MAIN OFFICE

1No. 4 CORE 16mm² XLPE/SWA/LSF CABLE

LIGHTING - INNER HALL CORRIDOR, BACK STAIRS
LIGHTING - LIBRARY, ANTE ROOM
LIGHTING - MAIN STAIRCASE
LIGHTING - ENTRANCE HALL COR
LIGHTING - BILLIARDS ROOM, MUSIC ROOM
SPARE
SPARE

FP200 WHITE
MICC BARE
6491B SINGLE CORE LSF
624ZB LSZH T&E
XLPE/SWA/LSF
AFDD
RCD

CABLE SIZE	1.5	1.5	1.5	1.5	1.5	1.5	1.5									16
MCB RATING	6	6	6	6	6	6	6									63
WAY REF	1	2	3	4	5	6	7	8								

8 WAY SP&N 6 AMP
MCB DIST. BOARD
INTEGRAL TO STATIC CONVERTER
REF: LSI/01
LOCATED: GRD. FLOOR
EAST WING STAIRCASE

STATIC INVERTER

32AMP SP&N ISOLATOR

1No. 3 CORE 6mm² XLPE/SWA/LSF CABLE

GROUND FLOOR

BASEMENT

OPTION 1

TIMECLOCK, PHOTOCELL & 230V 4 POLE CONTACTOR ARRANGEMENT

BASEMENT LIGHTING MAINS ROOM
GROUND FLOOR WEST WING DIST. BOARD LP01/1/L2
FIRST FLOOR WEST WING DIST. BOARD LP01/1/L3
LIGHTING - BASEMENT CORRIDOR AREA WEST WING
BAKERY DISTRIBUTION BOARD
SPARE
LIGHTING - BASEMENT STORES
RADIAL - BASEMENT SOCKET MAINS ROOM & STORES 3No.
SPARE
SPARE
RADIAL - BASEMENT SOCKET OUTLETS WEST WING 3No.
SPARE
EXTERNAL LIGHTING
EXTERNAL LIGHTING
SPARE
SPARE
SPARE
SPARE
SPARE
RADIAL - SURGE PROTECTIVE DEVICE

FP200 WHITE
MICC BARE H/D
MICC BARE LD
6491B SINGLE CORE LSF
624ZB LSZH T&E
XLPE/SWA/LSF
AFDD
RCD

CABLE SIZE	1.5	6	6	1.5	6	1.5	4			2.5	2.5	2.5																				16
MCB RATING	6	32	32	6	32	6	20			10	10	10																				63
PHASE REF	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
WAY REF	1			2			3			4			5			6			7			8										

8 WAY TP&N MCB DISTRIBUTION BOARD
REF: LP01
LOCATED: BASEMENT WEST WING ELECTRICAL SWITCH ROOM

1No. 4 CORE 16mm² XLPE/SWA/LSF CABLE
1No. SINGLE CORE 16mm² LSF AS CPC

FP200 WHITE + 4 CORE
6491B SINGLE CORE LSF
XLPE/SWA/LSF 4 CORE
AFDD
RCD

CABLE SIZE	2.5	16	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
MCB RATING	25	80	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
PHASE REF	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
WAY REF	1			2			3			4			5			6			7			8			9			10			11		

12 WAY XXX AMP
TP&N MCCB PANEL
BOARD COMPLETE
WITH XXX AMP
TP&N ISOLATOR

REF: SEC/01
LOCATED:
BASEMENT
WEST WING

SPARE
SPARE
FIRE ALARM PANEL

HEATING CONTROL PANEL
SPARE
TEMPLE BUILDING. LTG EXISTING SUPPLY
SPARE
SPARE
PITCH & PUTT BLOCK. EXISTING SUPPLY REQUIRE CHECKING
SPARE
SPARE
SPARE
RADIAL - SURGE PROTECTIVE DEVICE

4No. SINGLE CORE 70mm² LSF
1No. SINGLE CORE 35mm² LSF AS CPC
ZE - 0.2Ω (MEASUREMENT)
IPF- 2.5KA (MEASUREMENTS)

108 MTS

OPTION 2

SUB METER

BUS BAR

SPARE
SPARE
LIGHTING - BASEMENT EAST EB3, EB2, BOILER HOUSE
LIGHTING - BASEMENT EAST EB2
RADIAL - SOCKET OUTLETS CORRIDOR 2No.
SPARE
RING MAIN - VENT AXIA CONTROLS
RADIAL - PSU INTRUDER ALARM
RADIAL - SOCKET OUTLETS EB2- EB3, BOILERHOUSE 3No.
FIRST FLOOR DIST. BOARD LP02/4/L1,L2,L3
LIGHTING TRACK - EXHIBITION ROOM 6No.
RING MAIN - GROUND FLOOR LIBRARY 3No.
SPARE
RING MAIN - SOCKET OUTLETS EXHIBITION ROOM 6No.
LIGHTING - LIBRARY STORE ROOM
SPARE
RING MAIN - GROUND FLOOR MUSIC ROOM ORGAN 3No.
RING MAIN - GROUND FLOOR BILLIARD ROOM 3No.
RADIAL - 5 WAY WIRELESS TRANSMITTER
RADIAL - FIRE ALARM GROUND FLOOR CCTV 6 PORT SWITCH
RADIAL - I FIRE ALARM INTRUDER ALARM EXPANDER SUPPLY
RADIAL - SUPPLY TO STAR INVERTER LS/09
SPARE
SPARE
RADIAL - SURGE PROTECTIVE DEVICE

FP200 WHITE
MICC BARE H/D
MICC BARE LD
6491B SINGLE CORE LSF
624ZB LSZH T&E
XLPE/SWA/LSF
AFDD
RCD

CABLE SIZE		1.5	1.5	4		2.5	2.5	4		16	1.5	1.5		1.5	1.5	1.5	1.5	1.5	1.5	6												16
MCB RATING		6	6	20		20	16	20		32	6	16	32	32	16	16	16	16	16	32												63
PHASE REF	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
WAY REF		1		2		3		4		5		6		7		8		9		10		11		12								

12 WAY TP&N MCB DISTRIBUTION BOARD
REF: LP02
LOCATED: BASEMENT EAST WING STAIRCASE

63AMP TP&N ISOLATOR

1No. 4 CORE 25mm² XLPE/SWA/LSF CABLE
1No. SINGLE CORE 16mm² LSF AS CPC

60 MTS

KITCHEN SUPPLY

Rev.	Description	Revised By	Date
T2	TENDER ISSUE.	G.M.	May. 24
T1	TENDER ISSUE.	G.M.	Jan. 24

STATUS

TENDER

ecs CONSULTANTS
Building Services Consulting Engineers
148 Stockport Road
Cheadle, Cheshire, SK8 2DP
Tel: 0161 283 2882 Fax: 0161 282 8825
Web Site: www.ecs-ecs.co.uk Email: sales@ecs-ecs.co.uk

JOB NO.	DRAWING NO.	COMPUTER FILE	REVISION
24/100	24/100/E/31	24_100_E_31	T2
DATE	SCALE	DRAWN	CHECKED
Sept. 2022	NTS@ A0	J.W.	G.M.

JOB TITLE
Heaton Park Hall

CfA ISO 9001 — UKAS QUALITY MANAGEMENT 003

DRAWING TITLE
Proposed
Electrical Schematic

ace consulting engineering business environment

CAD original - not to be modified by hand