Do Not Scale

| | SMALL POWER (DESK 1,2,3) | SMALL POWER GENERAL PURPOSE & SCREENS | SMALL POWER INFO POINTS | SMALL POWER (DESK 4,5) | SMALL POWER – CPI SCREEN | SMALL POWER – TICKET M/C & CIS SCREENS | SMALL POWER (DESK 6,7,8) | SPARE | SMALL POWER – INFO POINTS | SMALL POWER (DESK 9,10,11) | SWIPE CARD & DOOR RELEASE & SOCKETS | SMALL POWER – INFO POINTS | SMALL POWER (DESK 12,13,14) | SMALL POWER – TICKET M/C | SPARE | UNUSED SPUR IN ELECTRICAL CUPBOARD | SMALL POWER – TICKET M/C & CIS SCREENS | LIGHTING TICKET M/C | AC UNIT & SOCKETS | SPARE | SPARE | SPARE | SPARE | SPARE | LIGHTING – TICKET MACHINE | TASK LIGHTS | LIGHTING – TICKET MACHINE | TASK LIGHTS | PANIC ALARM | DOWN FLOW 1 | SPARE | SPARE | DOWN FLOW 2 & CONDENSING PUMP | SPARE | SPARE | COOLING & HEAT PUMP 1 | COOLING & HEAT PUMP 2 | OVER DOOR HEATER No.1 (NORTH) | OVER DOOR HEATER No.5 (SOUTH) | OVER DOOR HEATER No.2 | OVER DOOR HEATER No.4 | OVER DOOR HEATER No.3 | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | RCD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PHASE mm² | 4 | 4 | 4 | 4 | 4 | 4 | 4 | – | 4 | 4 | 4 | 4 | 4 | 4 | – | 4 | 4 | 2.5 | 4 | 4 | 4 | 4 | 4 | 4 | 2.5 | 2.5 | 2.5 | 2.5 | 4 | 2.5 | – | – | 2.5 | – | – | 4 | 4 | 6 | 6 | 6 | 6 | 6 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| CPC mm² | 4 | 4 | 4 | 4 | 4 | 4 | 4 | – | 4 | 4 | 4 | 4 | 4 | 4 | – | 4 | 4 | 2.5 | 4 | 4 | 4 | 4 | 4 | 4 | 2.5 | 2.5 | 2.5 | 2.5 | 4 | 2.5 | – | – | 2.5 | – | – | 4 | 4 | 6 | 6 | 6 | 6 | 6 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| WIRING REF | D | D | D | D | D | D | D | – | D | D | D | D | D | D | – | D | D | D | D | D | D | D | D | D | D | D | D | D | D | F | – | – | F | – | – | F | F | F | F | F | F | F | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| MCB TYPE | B | C | C | B | C | C | C | – | C | B | C | C | B | C | – | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | – | – | C | – | – | C | C | C | C | C | C | C | C | C | – | – | – | – | – | – | – | – | – | – | – | – | – |
| MCB SIZE | 32 | 32 | 32 | 32 | 32 | 32 | 32 | – | 32 | 32 | 20 | 32 | 32 | 32 | – | 20 | 32 | 10 | 20 | 32 | 32 | 32 | 32 | 32 | 10 | 10 | 10 | 10 | 20 | 10 | – | – | 10 | – | – | 20 | 20 | 32 | 32 | 32 | 32 | 32 | 10 | 10 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| WAY | 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 | L1 | L2 | L3 | TP | TP | TP | TP | TP | TP | TP | L1 | L2 | L3 | L1 | L2 | L3 | L1 | L2 | L3 | L1 | L2 | L3 | L1 | L2 | L3 |
| | 1 | | | 2 | | | 3 | | | 4 | | | 5 | | | 6 | | | 7 | | | 8 | | | 9 | | | 10 | | | 11 | | | 12 | | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | | | 21 | | | 22 | | | 23 | | | 24 | | |

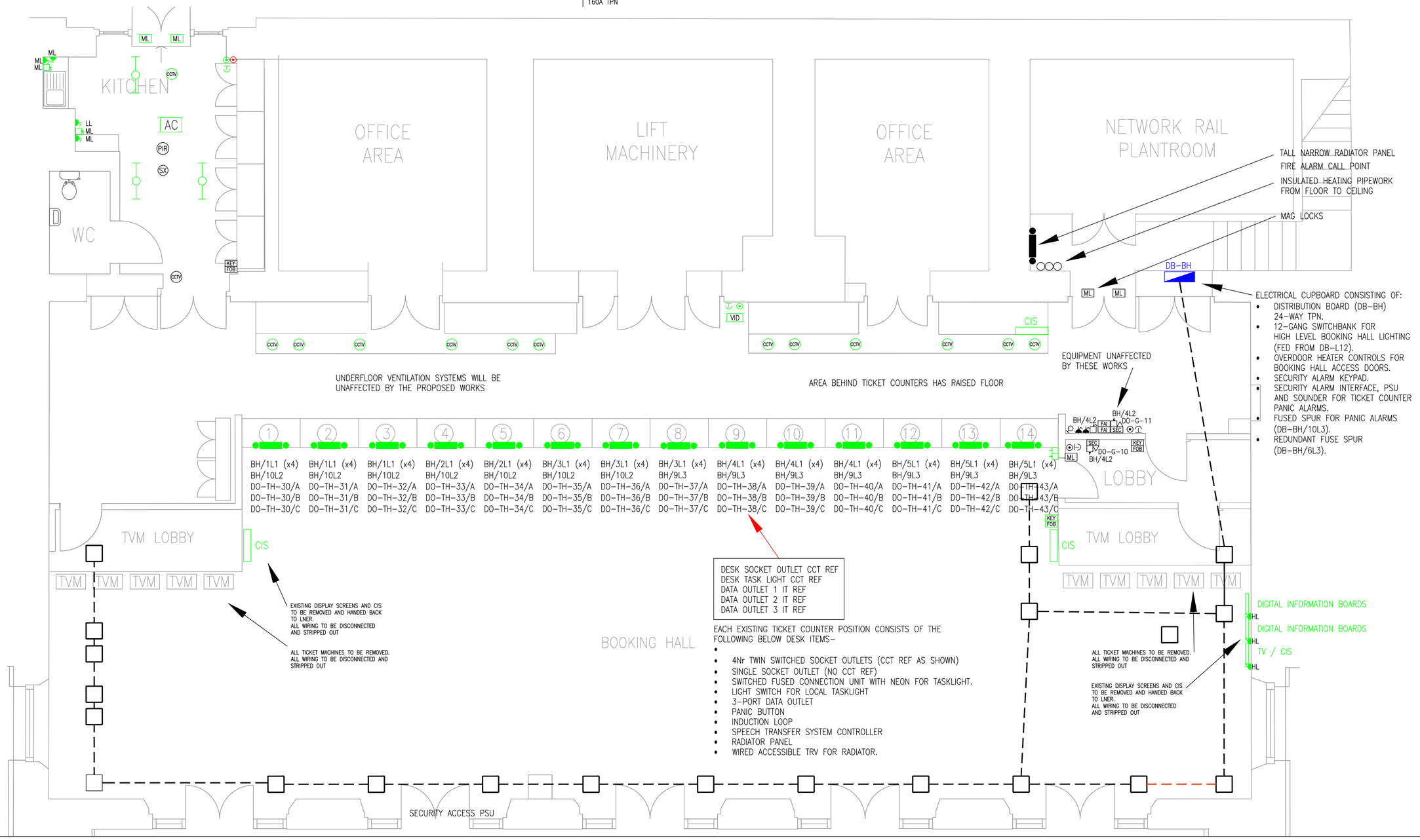
DB–BH (SUPPLY FROM DB2MCC)

FIG 1 – EXISTING ELECTRICAL SCHEMATIC

250
25mm SWA
160A TPN

TRAVEL CENTRE CUPBOARD

| | |
|---|---|
| SEC | SECURITY PANEL |
| VID | SMALL VIDEO MONITOR |
| KEY | SECURITY KEYPAD |
| FOB | CARD / FOB SWIPE UNIT |
| | GREEN BREAK GLASS – DOOR ENTRY |
| | PUSH TO ACCESS – DOOR ENTRY |
| ML | MAG LOCK FOR SECURE DOORS |
| IL | INDUCTION LOOP AT EACH COUNTER POSITION |
| FAI | FIRE ALARM INTERFACE |
| SX | SMOKE DETECTOR WITH SOUNDER BEACON BASE |
| | FIRE ALARM MANUAL CALL POINT |
| AC | AIR CONDITIONING UNIT – CEILING CASSSETTE |




NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECTS DRAWINGS FOR DETAILS IN TERMS OF EQUIPMENT POSITIONS AND PROPOSED WORKS BY OTHERS.
4. THE INSTALLATION SHALL BE FULL COORDINATED WITH OTHI SERVICES AND THE BUILDING STRUCTURE.
5. EXISTING CABLE CONTAINMENT SHALL BE REUSED WHERE POSSIBLE.
6. THE CONTRACTOR SHALL INCLUDE FOR ALL NECESSARY BUILDERS WORKS IN RELATION TO M&E ALTERATIONS / ADDITIONS INCLUDING BUT NOT LIMITED TO FORMING OF NE OPENINGS, CHASES IN WALLING AND FLOORING AND THE LIKE TO ENABLE WIRING TO REACH NEW INSTALLATION LOCATIONS.
7. ALLOW FOR THE REMOVAL OF THE EXISTING TICKET COUNTERS AND ALL ASSOCIATED FIXTURES AND FITTINGS.
8. ALLOW FOR MAKING GOOD ALL RETAINED SURFACES.
9. ALL IT EQUIPMENT, TICKET MACHINES, PRINTERS AND SCREENS ETC FROM THE EXISTING TICKET COUNTERS ARE TO BE HANDED BACK TO CLIENT.
10. ALL POWER AND DATA CABLING FOR EXISTING TICKET COUNTER AND MISCELLANEOUS EQUIPMENT BEING REMOVEC AS PART OF THESE WORKS IS TO BE STRIPPED OUT BACK TO SOURCE WITH NEW WIRING PROVIDED TO SUIT NEW LAYOUT.
11. REMOVE DIGITAL INFORMATION BOARD AND TV/CIS SCREEN AND ALL ASSOCIATED FIXTURES AND FITTINGS TO BE PASSED TO LNER FOR SAFEKEEPING.
12. TICKET MACHINES ARE TO BE REMOVED BY THE CLIENT PRIOR TO COMMENCEMENT OF WORKS.
13. INCLUDE FOR ALL ASSOCIATED MAKING GOOD WORKS UPON COMPLETION.
14. ALL ELECTRICAL AMENDMENTS AND ADDITIONS AT TICKET COUNTERS, CUSTOMER INFORMATION WINDOW AND FAMILY AREA ARE TO BE CONNECTED ONTO EXISTING DISTRIBUTION BOARD DB–BH.
15. EXISTING CCTV CAMERAS BEHIND TICKET COUNTERS ARE T BE REPOSITIONED / REDIRECTED TO PROVIDE ADEQUATE SECURITY TO SUIT NEW LAYOUT.
16. WITHIN MESSING AREA, ALLOW FOR THE STRIPPING OUT OF EXISTING KITCHEN UNITS AND ALL ASSOCIATED FIXTURES AND FITTINGS.
17. ALLOW FOR MAKING GOOD ALL SURFACES IN PREPARATION FOR NEW ITEMS TO BE CONNECTED TO EXISTING DISTRIBUTION BOARD.
18. ALLOW FOR SAFE DISCONNECTION AND REMOVAL OF ALL EXISTING WALL MOUNTED ELECTRICAL FIXTURES AND FITTINGS INCLUDING LIGHT SWITCHES, SOCKETS AND SPURS TRUNKING ETC. IN PREPARATION FOR NEW ITEMS TO BE CONNECTED TO EXISTING ELECTRICAL CIRCUIT.
19. ELECTRICAL AMENDMENTS AND ADDITIONS WITHIN THE KITCHEN AREA SHALL BE REWIRED AND CONNECTED ONTO EXISTING DISTRIBUTION BOARD DB–P6.
20. DISPOSE OF ALL REMAINING DEBRIS ARISING FROM SITE.

LEGEND

| | |
|---|---|
| | DISTRIBUTION BOARD (DB–BH, 24–WAY TPN) |
| | LINEAR T5 FLUORESCENT |
| | WALL MOUNTED MINI SPOTLIGHT |
| | TWIN SOCKET OUTLET |
| | UNSWITCHED FUSED CONNECTION UNIT |
| | UNSWITCHED FUSED CONNECTION UNIT c/w NEON |
| | SWITCHED FUSED CONNECTION UNIT |
| | SWITCHED FUSED CONNECTION UNIT c/w NEON |
| PIR | PIR FOR LIGHTING |
| | DATA OUTLET |
| CCTV | CCTV DOME CAMERA |
| CIS | CIS DISPLAY |

| REV. | DATE | DRN | CHKD | DESCRIPTION |
|---|---|---|---|---|
| P2 | 06.05.22 | GM | DH | LLC ISSUE |
| P1 | 11.04.22 | GM | DH | FIRST ISSUE |


JCP Consulting Engineers
JCP CONSULTING ENGINEERS
FIRST FLOOR, SPRINGFIELD HOUSE
HARROGATE CONVENTION CENTRE
HG1 5NX
TEL: 0113 387 3252
E-Mail: info@jcpce.com
Website: www.jcpce.com


Client: LNER LONDON NORTH EASTERN RAILWAY

Architect: AHR

Project: KINGS CROSS RAILWAY STATION FAMILY AREA

Title: M&E SERVICES EXISTING LAYOUT

| Scale: | Sheet: | Date: | Drawn by: GM |
|---|---|---|---|
| 1:50 | A1 | APR 2022 | Checked by: DH |

Drg. No.: 2257_JCP_BH_GF_DR_E_(61)_01

Status: LLC ISSUE

Revision: P2