



ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

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C2717a - KINGS CHRISTIAN COLLEGE - REEDY CREEK - GLAS & STUDENT SERVICES KCC49 C2717a-0008(E).xls

DISTRIBUTION BOARD DB-MS

REVISION E - 03 JUNE 2025

| | | | | | | | REV |
|---|----|---------------------------|----------------------|-----------------------------------|----------|--------------------------------------|-----|
| FAULT CURRENT: | | 6KA | | MAIN SWITCH: | | 250A NON AUTO LOAD BREAK ISOLATOR | A |
| CHASSIS SIZE: | | 2 X 84 POLES | | SUPPLIED FROM: | | MDB | A |
| CHASSIS RATING: | | 250A | | SUPPLY CABLE: | | 4C70 | A |
| PHASES: | | 3 | | | | | A |
| PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS. ACCURATELY LABEL EACH CIRCUIT BREAKER WITH THE USE AND THE POSITION. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHT TESTING FACILITY AND SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL CONSTRUCTION REQUIREMENTS. | | | | | | | A |
| CIRC | PH | CIRCUIT BREAKER (amps) | CONTROL EQUIPMENT | CABLE SIZE (mm ²) | LOCATION | CIRCUIT USE | |
| P1 | 1 | 20 | RCBO | 2.5 | EXTERNAL | GPO | A |
| P2 | 1 | 20 | RCBO | 2.5 | GROUND | CIRCULATION GPO | A |
| P3 | 1 | 20 | RCBO | 2.5 | GROUND | RECEPTION GPO | A |
| P4 | 1 | 20 | RCBO | 2.5 | GROUND | CHAPLAIN GPO | B |
| P5 | 1 | 20 | RCBO | 2.5 | GROUND | MEETING GPO | A |
| P6 | 1 | 20 | RCBO | 2.5 | GROUND | WELLBEING GPO | A |
| P7 | 1 | 20 | RCBO | 2.5 | GROUND | SICK BAY GPO | A |
| P8 | 1 | 20 | RCBO | 2.5 | GROUND | CONSULT GPO | A |
| P9 | 1 | 20 | RCBO | 2.5 | GROUND | NURSE GPO | A |
| P10 | 1 | 20 | RCBO | 2.5 | GROUND | KITCHENETTE GPO | A |
| P11 | 1 | 20 | RCBO | 2.5 | GROUND | PRINTER | A |
| P12 | 1 | 20 | RCBO | 2.5 | GROUND | AUTO BOILER | A |
| P13 | 1 | 20 | RCBO | 2.5 | GROUND | KITCHENETTE GPO | A |
| P14 | 1 | 20 | RCBO | 2.5 | GROUND | MICROWAVE | A |
| P15 | 1 | 20 | RCBO | 2.5 | GROUND | AUTO BOILER | A |
| P16 | 1 | 20 | RCBO | 2.5 | GROUND | ICE | A |
| P17 | 1 | 20 | RCBO | 2.5 | GROUND | UTILITY GPO | A |
| P18 | 1 | 20 | RCBO | 2.5 | GROUND | WORKSTATION | A |
| P19 | 1 | 20 | RCBO | 2.5 | GROUND | REF | A |
| P20 | 1 | 20 | RCBO | 2.5 | GROUND | LAUNDRY GPO | A |
| P21 | 1 | 20 | RCBO | 2.5 | GROUND | DR / WM | A |
| P22 | 1 | 20 | RCBO | 2.5 | GROUND | DRINK FOUNTAIN | A |
| P23 | 1 | 20 | RCBO | 2.5 | GROUND | OFFICE GPO | A |
| P24 | 1 | 20 | RCBO | 2.5 | GROUND | CHARGER | A |
| P25 | 1 | 20 | RCBO | 2.5 | GROUND | CHARGER | A |
| P26 | 3 | 32 | RCBO | 6.0 | LEVEL 1 | EXTERNAL SCREEN | A |
| P27 | | | | | | | e |
| P28 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | GLA 1 POWER | A |
| P29 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | STAFF GPO | A |
| P30 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | DRINK FOUNTAIN | A |
| P31 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | CIRCULATION GPO | A |
| P32 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | CUBE GPO | B |
| P33 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | GLA 6 POWER | A |
| P34 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | GLA 5 POWER | A |
| P35 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | FLA 1 POWER | A |
| P36 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | GLA 4 POWER | A |
| P37 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | GLA 3 POWER | A |
| P38 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | GLA 2 POWER | A |
| P39 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | DRINK FOUNTAIN | A |
| P40 | | | | | | | e |
| P41 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | GLA 3 POWER | A |
| P42 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | GLA 2 POWER | A |
| P43 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | GLA 1 POWER | A |
| P44 | 3 | 40 | RCD TYPE B | 6.0 | LEVEL 2 | LIFT | A |
| P45 | 1 | 40 | RCBO | 6.0 | LEVEL 2 | HWS | C |

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Pages inc. any attach. 1 of 2



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| CIRC | PH | CIRCUIT BREAKER (amps) | CONTROL EQUIPMENT | CABLE SIZE (mm ²) | LOCATION | CIRCUIT USE | |
| P46 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | GLA 6 POWER | A |
| P47 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | GLA 5 POWER | A |
| P48 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | GLA 4 POWER | A |
| P49 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | FLA POWER | A |
| P50 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | FLA POWER | A |
| P51 | 3 | 40 | RCBO | 6.0 | WELLNESS | HWS | C |
| P52 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | LEVEL 2 FIRE CURTAINS | D |
| P53 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | LEVEL 1 FIRE CURTAINS | D |
| P54 | 1 | 20 | RCBO | 2.5 | GROUND | FIP | E |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| L1 | 1 | 20 | RCBO | 2.5 | GROUND | CIRCULATION LIGHTS | A |
| L2 | 1 | 20 | RCBO | 2.5 | GROUND | CIRCULATION LIGHTS | A |
| L3 | 1 | 20 | RCBO | 2.5 | GROUND | CIRCULATION LIGHTS | A |
| L4 | 1 | 20 | RCBO | 2.5 | GROUND | WELLNESS LIGHTS | A |
| L5 | 1 | 20 | RCBO | 2.5 | GROUND | WELLNESS LIGHTS | A |
| L6 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | STAIR 2 LIGHTS | A |
| L7 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | GLA 1 LIGHTS | A |
| L8 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | CIRCULATION LIGHTS | A |
| L9 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | CIRCULATION LIGHTS | A |
| L10 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | GLA 6 LIGHTS | A |
| L11 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | GLA 5 LIGHTS | A |
| L12 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | CIRCULATION LIGHTS | A |
| L13 | 1 | 20 | RCBO | 2.5 | LEVEL 1 & 2 | STAIR 1 LIGHTS | A |
| L14 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | GLA 4 LIGHTS | A |
| L15 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | GLA 3 LIGHTS | A |
| L16 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | GLA 2 LIGHTS | A |
| L17 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | CIRCULATION LIGHTS | A |
| L18 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | CIRCULATION LIGHTS | A |
| L19 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | GLA 4 LIGHTS | A |
| L20 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | SKY LIGHTS | A |
| L21 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | FLA LIGHTS | A |
| L22 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | FLA LIGHTS | A |
| L23 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | GLA 5 LIGHTS | A |
| L24 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | GLA 3 LIGHTS | A |
| L25 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | GLA 2 LIGHTS | A |
| L26 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | GLA 1 LIGHTS | A |
| L27 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | FLA LIGHTS | A |
| L28 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | GLA 6 LIGHTS | B |
| L29 | 1 | 20 | RCBO | 2.5 | GROUND | WELLNESS LIGHTS | A |
| | | | | | | | |
| | | | | | | | |