



# ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

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C3232a - KINGS CHRISTIAN COLLEGE - CHAMBERS FLAT, MIDDLE SCHOOL CHA10

C3232a-0005(C).xls

DISTRIBUTION BOARD DB-10L

REVISION C - 01 APRIL 2025

| FAULT CURRENT: 6KA<br>CHASSIS SIZE: 60 POLE<br>CHASSIS RATING: 250A<br>PHASES: 3  |    |                        |                                |                                |          |                       | REV |
|---|----|------------------------|--------------------------------|--------------------------------|----------|-----------------------|-----|
| MAIN SWITCH: 250A NON AUTO LOAD BREAK ISOLATOR  |    |                        |                                |                                |          |                       | A   |
| SUPPLIED FROM: DB-10  |    |                        |                                |                                |          |                       | A   |
| SUPPLY CABLE: 4C25  |    |                        |                                |                                |          |                       | 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 <sup>2</sup> ) | LOCATION | CIRCUIT USE           |     |
| 1   | 1  | 20                     | RCBO                           | 2.5                            | GROUND   | PLANT LIGHTING        | A   |
| 2   | 1  | 20                     | RCBO                           | 2.5                            | GROUND   | AMENITY LIGHTING      | A   |
| 3   | 1  | 20                     | RCBO                           | 2.5                            | GROUND   | COVERED AREA LIGHTING | A   |
| 4   | 1  | 20                     | RCBO                           | 2.5                            | GROUND   | COVERED AREA LIGHTING | A   |
| 5   | 1  | 20                     | RCBO                           | 2.5                            | GROUND   | COVERED AREA LIGHTING | A   |
| 6   | 1  | 20                     | RCBO                           | 2.5                            | GROUND   | COVERED AREA LIGHTING | A   |
| 7   | 1  | 20                     | RCBO PE ON DUSK TC OFF 10.00PM | 2.5                            | EXTERNAL | LIGHTING              | A   |
| 8   | 1  | 20                     | RCBO PE ON DUSK TC OFF 10.00PM | 2.5                            | EXTERNAL | LIGHTING              | A   |
| 9   | 1  | 20                     | RCBO PE ON DUSK TC OFF 10.00PM | 2.5                            | EXTERNAL | LIGHTING              | A   |
| 10  | 1  | 20                     | RCBO PE ON DUSK TC OFF 10.00PM | 2.5                            | EXTERNAL | LIGHTING              | A   |
| 11  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 1  | PLANT LIGHTING        | A   |
| 12  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 1  | AMENITY LIGHTING      | A   |
| 13  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 1  | STUDIO LIGHTING       | A   |
| 14  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 1  | GLA 1 LIGHTING        | A   |
| 15  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 1  | CIRC LIGHTING         | A   |
| 16  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 1  | GLA 2 LIGHTING        | A   |
| 17  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 1  | GLA 3 LIGHTING        | A   |
| 18  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 1  | TECH HUB LIGHTING     | A   |
| 19  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 1  | GLA 4 LIGHTING        | A   |
| 20  |    |                        |                                |                                |          |                       | C   |
| 21  | 1  | 20                     | RCBO PE ON DUSK TC OFF 10.00PM | 2.5                            | LEVEL 2  | EXTERNAL LIGHTING     | A   |
| 22  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 2  | PLANT LIGHTING        | A   |
| 23  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 2  | AMENITY LIGHTING      | A   |
| 24  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 2  | PREP LIGHTING         | A   |
| 25  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 2  | GLA 1 LIGHTING        | A   |
| 26  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 2  | GLA 2 LIGHTING        | A   |
| 27  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 2  | CIRC LIGHTING         | A   |
| 28  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 2  | CIRC LIGHTING         | A   |
| 29  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 2  | GLA 3 LIGHTING        | A   |
| 30  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 2  | LAB2 LIGHTING         | A   |
| 31  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 2  | LAB 1 LIGHTING        | A   |
| 32  | 1  | 20                     | RCBO                           | 2.5                            | LEVEL 2  | CIRC LIGHTING         | A   |
| 33  | 1  | 20                     | RCBO PE ON DUSK TC OFF 10.00PM | 2.5                            | EXTERNAL | POLE LIGHTS           | A   |
| 34  | 1  | 20                     | RCBO PE ON DUSK TC OFF 10.00PM | 2.5                            | EXTERNAL | WALL LIGHTS           | A   |
| 35  | 1  | 20                     | RCBO PE ON DUSK OFF DAWN       | 2.5                            | EXTERNAL | SECURITY LIGHTS       | A   |
|   |    |                        |                                |                                |          |                       |     |
|   |    |                        |                                |                                |          |                       |     |
|   |    |                        |                                |                                |          |                       |     |
|   |    |                        |                                |                                |          |                       |     |