

# ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

P.O. Box 15, SHERWOOD Q. 4075

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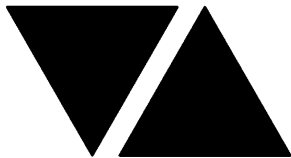
C3733a - ACGS - YEAR 5 & 6 PRECINCT

C3733a-0007(T2).xls

DISTRIBUTION BOARD DB-1

REVISION T2 - 07 OCTOBER 2026

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                        |                   |                  |                  |             | REV |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------|-------------------|------------------|------------------|-------------|-----|
| FAULT CURRENT: 6kA<br>MAIN SWITCH: 160A NON AUTO LOAD BREAK SWITCH<br>CHASSIS SIZE: 48 POLE POWER 36 POLE LIGHTING<br>SUPPLIED FROM: DB-G<br>CHASSIS RATING: 250A<br>SUPPLY CABLE: 4C35<br>PHASES: 3                                                                                                                                                                                                                                                                                                                                                                                                            |    |                        |                   |                  |                  |             | T1  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                        |                   |                  |                  |             | T1  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                        |                   |                  |                  |             | T1  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                        |                   |                  |                  |             | T1  |
| PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE INITIAL CONTROL EQUIPMENT. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. PROVIDE THE DB WITH SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS. PROVIDE AN ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022 UTILISING SCHNEIDER iEM3265 BACnet/MSTP DIN RAIL MOUNTED METERS INTERFACED TO THE BMS WITH THE FOLLOWING SERVICES SEPERATLLY MEETERED / ACCOUNTED FOR, GENERAL POWER, LIGHTING AND HOT WATER. |    |                        |                   |                  |                  |             | T2  |
| CIRC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PH | CIRCUIT BREAKER (amps) | CONTROL EQUIPMENT | CABLE SIZE (mm2) | LOCATION         | CIRCUIT USE |     |
| P1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1  | 20                     | RCBO              | 2.5              | LOTE             | GPOS        | T1  |
| P2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1  | 20                     | RCBO              | 2.5              |                  | MAINTENANCE | T1  |
| P3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1  | 20                     | RCBO              | 2.5              | LS7 LS8 & LS9    | REF         | T1  |
| P4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1  | 20                     | RCBO              | 2.5              | LS 7             | GPOS        | T1  |
| P5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1  | 20                     | RCBO              | 2.5              | BREAKOUT         | GPOS        | T1  |
| P6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1  | 20                     | RCBO              | 2.5              | BREAKOUT         | AUTOBOILER  | T1  |
| P7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1  | 20                     | RCBO              | 2.5              | LS 8             | GPOS        | T1  |
| P8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1  | 20                     | RCBO              | 2.5              | BREAKOUT         | GPOS        | T1  |
| P9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1  | 20                     | RCBO              | 2.5              | BREAKOUT         | AUTOBOILER  | T1  |
| P10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO              | 2.5              | LS 9             | GPOS        | T1  |
| P11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO              | 2.5              | PLAZA 3          | GPOS        | T1  |
| P12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO              | 2.5              | FORUM            | GPOS        | T1  |
| P13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 40                     | RCBO              | 6.0              | FORUM            | VIDEO WALL  | T1  |
| P14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 40                     | RCBO              | 6.0              | FORUM            | VIDEO WALL  | T1  |
| P15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO              | 2.5              | PLAZA 4          | GPOS        | T1  |
| P16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO              | 2.5              | LS10 LS11 & LS12 | REF         | T1  |
| P17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO              | 2.5              | LS 10            | GPOS        | T1  |
| P18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO              | 2.5              | BREAKOUT         | GPOS        | T1  |
| P19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO              | 2.5              | BREAKOUT         | AUTOBOILER  | T1  |
| P20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO              | 2.5              | LS 11            | GPOS        | T1  |
| P21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO              | 2.5              | BREAKOUT         | GPOS        | T1  |
| P22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO              | 2.5              | BREAKOUT         | AUTOBOILER  | T1  |
| P23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO              | 2.5              | LS 12            | GPOS        | T1  |
| P24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3  | 40 C CURVE             | RCD TYPE B        | 10 + 10 EARTH    | LEVEL 1          | LIFT        | T1  |
| P25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO              | 2.5              | FORUM            | CAMERA      | T1  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                        |                   |                  |                  |             |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                        |                   |                  |                  |             |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                        |                   |                  |                  |             |     |
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REVISION T2 - 07 OCTOBER 2026

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| FAULT CURRENT: 6kA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                        |                                |                  |                 |             | T1  |
| MAIN SWITCH: 160A NON AUTO LOAD BREAK SWITCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                        |                                |                  |                 |             | T1  |
| CHASSIS SIZE: 48 POLE POWER 36 POLE LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                        |                                |                  |                 |             | T1  |
| SUPPLIED FROM: DB-G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                        |                                |                  |                 |             | T1  |
| CHASSIS RATING: 250A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |                        |                                |                  |                 |             | T1  |
| SUPPLY CABLE: 4C35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                        |                                |                  |                 |             | T1  |
| PHASES: 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                        |                                |                  |                 |             | T1  |
| PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE INITIAL CONTROL EQUIPMENT. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. PROVIDE THE DB WITH SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS PROVIDE AN ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022 UTILISING SCHNEIDER iEM3265 BACnet/MSTP DIN RAIL MOUNTED METERS INTERFACED TO THE BMS WITH THE FOLLOWING SERVICES SEPERATLLY MEETERED / ACCOUNTED FOR, GENERAL POWER, LIGHTING AND HOT WATER. |    |                        |                                |                  |                 |             | T2  |
| CIRC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PH | CIRCUIT BREAKER (amps) | CONTROL EQUIPMENT              | CABLE SIZE (mm2) | LOCATION        | CIRCUIT USE |     |
| L1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO PE ON DUSK OFF DAWN       | 2.5              | SECURITY        | LIGHTS      | T1  |
| L2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO PE ON DUSK TC OFF 10.00PM | 2.5              | COVERED LINK    | LIGHTS      | T1  |
| L3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO PE ON DUSK TC OFF 10.00PM | 2.5              | BREAKOUT        | LIGHTS      | T1  |
| L4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO                           | 2.5              | LOTE            | LIGHTS      | T1  |
| L5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO PE ON DUSK TC OFF 10.00PM | 2.5              | VOID            | LIGHTS      | T1  |
| L6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO PE ON DUSK OFF DAWN       | 2.5              | SECURITY        | LIGHTS      | T1  |
| L7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO PE ON DUSK TC OFF 10.00PM | 2.5              | EXTERNAL SCREEN | LIGHTS      | T1  |
| L8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO                           | 2.5              | LS 7            | LIGHTS      | T1  |
| L9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO                           | 2.5              | LS 8            | LIGHTS      | T1  |
| L10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO                           | 2.5              | PLAZA 3         | LIGHTS      | T1  |
| L11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO                           | 2.5              | LS 9            | LIGHTS      | T1  |
| L12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO                           | 2.5              | FORUM           | LIGHTS      | T1  |
| L13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO                           | 2.5              | FORUM           | LIGHTS      | T1  |
| L14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO                           | 2.5              | LS 10           | LIGHTS      | T1  |
| L15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO                           | 2.5              | PLAZA 4         | LIGHTS      | T1  |
| L16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO                           | 2.5              | LS 11           | LIGHTS      | T1  |
| L17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO                           | 2.5              | LS 12           | LIGHTS      | T1  |
| L18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO PE ON DUSK TC OFF 10.00PM | 2.5              | PLAYGROUND      | LIGHTS      | T1  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                        |                                |                  |                 |             |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                        |                                |                  |                 |             |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                        |                                |                  |                 |             |     |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                        |                                |                  |                 |             |     |