

LEGEND

DB-M  DISTRIBUTION BOARD DB-M. REFER TO THE DB-M SCHEDULE AND NOTES.

DB-G  DISTRIBUTION BOARD DB-G. REFER TO THE DB-M SCHEDULE AND NOTES.

MSB  MAIN SWITCHBOARD (MSB). REFER TO THE POWER SCHEMATIC AND NOTES.

 NON-AUTO SWITCH.

 CIRCUIT BREAKER.

 FUSE.

 MECHANICAL INTERLOCK.

 QECM V4 AUTHORITY RETAIL METER.

 QECM V4 SOLAR PROTECTION CTs.

 PRIVATE MULT-FUNCTION DEMAND LOGGING METER.

 SURGE PROTECTION DEVICE.

 MANUAL TRANSFER SWITCH C/W STATUS OUTPUT RELAY.

 SOLAR PROTECTED SMART METER WIRELESS.

 SINGLE PHASE.

 THREE PHASE.

 SIGN CONNECTION. PROVIDE THE SIGN WITH A CONCEALED POWER SUPPLY COORDINATED ON SITE WITH THE SIGNAGE CONTRACTOR.

 DIGITAL SIGN. PROVIDE THE SIGN WITH A CONCEALED POWER SUPPLY COORDINATED ON SITE WITH THE SIGNAGE CONTRACTOR. PROVIDE THE DIGITAL SIGN WITH A 50 DIA POWER CONDUIT C/W SPARE DRAW WIRE FROM THE LOCAL POWER PIT AND A 32 DIA COMMUNICATIONS CONDUIT C/W SPARE DRAW WIRE FROM THE LOCAL COMMUNICATIONS PIT.

 GATE MOTOR. PROVIDE THE GATE MOTOR WITH A LOCKABLE IP 66 POWER SUPPLY COORDINATED ON SITE WITH THE GATE SUB CONTRACTOR. PROVIDE THE GATE MOTOR WITH A 32 DIA COMMUNICATIONS CONDUIT C/W SPARE DRAW WIRE FROM THE LOCAL COMMUNICATIONS PIT.

15A  15A IP66 POWER OUTLET. COORDINATE THE POSITION ON SITE WITH THE FIRE PUMP SUB CONTRACTOR.

 T: TELSTRA / NBN PIT. CONFIRM THE POSITION ON SITE WITH TELSTRA / THE NBN CO.

 C1: NBN TYPE 2 LEADIN PIT.

 C2: 600 x 600 x 500 DEEP PLASTIC COMMUNICATIONS PIT C/W A REINFORCED CONCRETE SURROUND AND A CLASS C STEEL LID WITH A SLIP RESISTANCE OF R10 SUBMIT DETAILS OF THE PIT, LID AND AN INSTALLATION SECTION FOR APPROVAL.

 C3: 450 x 450 x 500 DEEP PLASTIC COMMUNICATIONS PIT C/W A REINFORCED CONCRETE SURROUND AND A CLASS C STEEL LID WITH A SLIP RESISTANCE OF R10 SUBMIT DETAILS OF THE PIT, LID AND AN INSTALLATION SECTION FOR APPROVAL.

 P1: PROVIDE A REINFORCED MASONRY INSITU PIT / TRENCH BELOW MSB FOR THE FULL LENGTH OF THE MSB AS PER THE MSB SECTION DETAIL. PROVIDE AS PART OF THE ELECTRICAL WORKS THE SWITCHBOARD AND LID SUPPORT SYSTEM AND THE TRENCH LIDS. PROVIDE THE TRENCH LIDS AND STRUCTURAL SUPPORT SYSTEM AS HOT DIPPED GALVANISED STEEL. PROVIDE THE TRENCH LIDS WITH LIFTING HOLES CHECKER PLATE R10 ANTI SLIP PATTERNING WITH EACH PART NO HEAVIER THAN 20 kg. FIX THE LIDS IN PLACE SUCH THAT A TOOL IS REQUIRED TO REMOVE THEM. PROVIDE AS PART OF THE ELECTRICAL WORKS THE TRENCH WITH AN AUTOMATIC SUMP PUMP TO DRAIN TO THE STORMWATER SYSTEM. PROVIDE CABLE SUPPORTS WITHIN THE TRENCH TO ENSURE THAT THERE ARE NO CABLES WITHIN 50MM OF THE TRENCH FLOOR. SUBMIT DETAILS OF THE PIT, LID AND AN INSTALLATION SECTION FOR APPROVAL.

 P2: 1200 x 1200 x 1000 DEEP INSITU POWER PIT C/W A REINFORCED CONCRETE SURROUND AND A CLASS C STEEL LID WITH A SLIP RESISTANCE OF R10 SUBMIT DETAILS OF THE PIT, LID AND AN INSTALLATION SECTION FOR APPROVAL.

 P3: 600 x 600 x 700 DEEP PLASTIC POWER PIT C/W A REINFORCED CONCRETE SURROUND AND A CLASS C STEEL LID WITH A SLIP RESISTANCE OF R10 SUBMIT DETAILS OF THE PIT, LID AND AN INSTALLATION SECTION FOR APPROVAL.

 P4: 450 x 450 x 700 DEEP PLASTIC POWER PIT C/W A REINFORCED CONCRETE SURROUND AND A CLASS C STEEL LID WITH A SLIP RESISTANCE OF R10 SUBMIT DETAILS OF THE PIT, LID AND AN INSTALLATION SECTION FOR APPROVAL.

 L1: 120W 4000K AREA LIGHT MOUNTED WITH A 15 DEGREE TILT ON A 9M HIGH TAPERED GALVANIZED POLE. PROVIDE A SPARE 32 DIA POWER CONDUIT AND A 32 DIA COMMUNICATIONS CONDUIT FROM EACH POLE TO THE LOCAL PIT C/W SPARE DRAW WIRE. FITTING TYPE: RAPID LED R10606.

 L2: 120W 4000K AREA LIGHT MOUNTED WITH A 15 DEGREE TILT ON A 7.8M HIGH TAPERED GALVANIZED POLE ON A 1200 HIGH 600 DIA REINFORCED CONCRETE BOLLARD. PROVIDE A SPARE 32 DIA POWER CONDUIT AND A 32 DIA COMMUNICATIONS CONDUIT FROM EACH POLE TO THE LOCAL PIT C/W SPARE DRAW WIRE. FITTING TYPE: RAPID LED R01606.

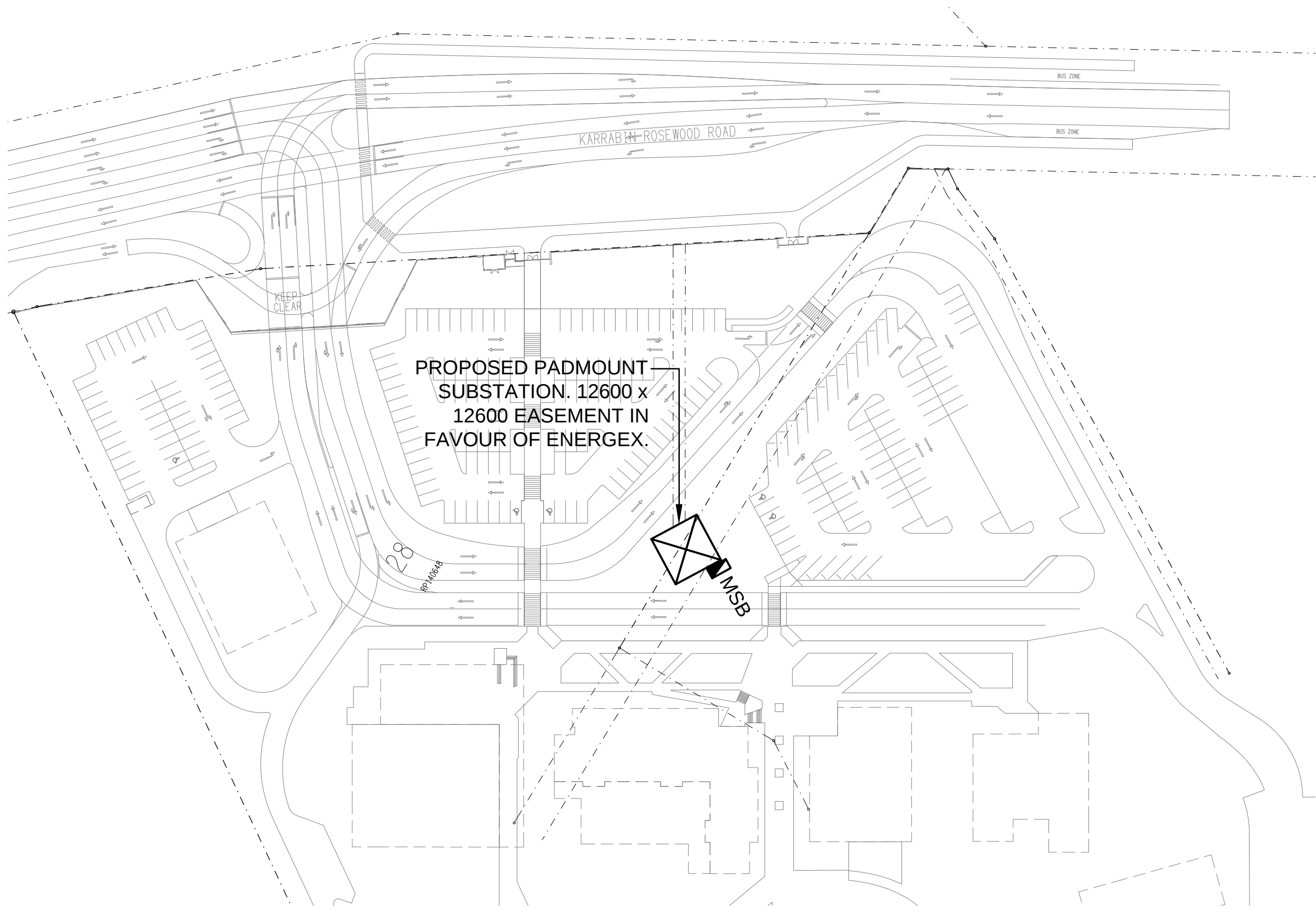
 L3: 1200 LONG IP66 BATTEN C/W SENSOR AND NON-MAINTAINED EMERGENCY PACK.

DISTRIBUTION BOARD DB-M SCHEDULE

| FAULT CURRENT:                                                                                                                                                                                                                                                                                                                                                                                     |    | 6kA            | MAIN SWITCH:                      |              | INTEGRAL TO THE MSB |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------------|-----------------------------------|--------------|---------------------|------------------|
| CHASSIS SIZE:                                                                                                                                                                                                                                                                                                                                                                                      |    | 48 POLES       |                                   |              |                     |                  |
| CHASSIS RATING:                                                                                                                                                                                                                                                                                                                                                                                    |    | 250A           |                                   |              |                     |                  |
| PHASES:                                                                                                                                                                                                                                                                                                                                                                                            |    | A              |                                   |              |                     |                  |
| PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE CONTROLS PROVIDED AS PART OF THE INITIAL WORKS. DB-M IS INTEGRAL TO THE MSB. PROVIDE THE SUPPLY TO THE DB WITH 200A FAULT CURRENT LIMITING FUSES. PROVIDE THE DB WITH A PE CELL ON / OFF / AUTO BYPASS SELECTOR SWITCH AND THE TC WITH AN ON / OFF / AUTO BYPASS SELECTOR SWITCH. |    |                |                                   |              |                     |                  |
| CIRC                                                                                                                                                                                                                                                                                                                                                                                               | PH | CIRCUIT        | CONTROL                           | CABLE        | LOCATION            | CIRCUIT          |
|                                                                                                                                                                                                                                                                                                                                                                                                    |    | BREAKER (amps) | EQUIPMENT                         | SIZE ( mm2 ) |                     | USE              |
| P1                                                                                                                                                                                                                                                                                                                                                                                                 | 3  | 63             | MCB                               | 4C+E 25      | VEHICLE ENTRY GATE  | DB-G             |
| P2                                                                                                                                                                                                                                                                                                                                                                                                 | 1  | 20             | RCBO                              | 2.5          | MSB PIT             | SUMP PUMP        |
|                                                                                                                                                                                                                                                                                                                                                                                                    |    |                |                                   |              |                     |                  |
| L1                                                                                                                                                                                                                                                                                                                                                                                                 | 1  | 20             | RCBO PE CELL ON<br>OFF AT DAWN    | 6.0          | CARPARK             | SECURITY LIGHTS  |
| L2                                                                                                                                                                                                                                                                                                                                                                                                 | 1  | 20             | RCBO PE CELL ON<br>TC OFF 11.00PM | 6.0          | CARPARK             | GENERAL LIGHTING |
| L3                                                                                                                                                                                                                                                                                                                                                                                                 | 1  | 20             | RCBO PE CELL ON<br>TC OFF 11.00PM | 6.0          | CARPARK             | GENERAL LIGHTING |
| L4                                                                                                                                                                                                                                                                                                                                                                                                 | 1  | 20             | RCBO PE CELL ON<br>TC OFF 11.00PM | 6.0          | CARPARK             | GENERAL LIGHTING |
| L5                                                                                                                                                                                                                                                                                                                                                                                                 | 1  | 20             | RCBO PE CELL ON<br>TC OFF 11.00PM | 6.0          | CARPARK             | GENERAL LIGHTING |
|                                                                                                                                                                                                                                                                                                                                                                                                    |    |                |                                   |              |                     |                  |

DISTRIBUTION BOARD DB-G SCHEDULE

| FAULT CURRENT:                                                                                                                                                                                                                                                                                                     |    | 6kA            |                                   | MAIN SWITCH:   |                 | 100A NON AUTO LOAD BREAK |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------------|-----------------------------------|----------------|-----------------|--------------------------|--|
| CHASSIS SIZE:                                                                                                                                                                                                                                                                                                      |    | 36 POLES       |                                   | SUPPLIED FROM: |                 | MSB / DB-M               |  |
| CHASSIS RATING:                                                                                                                                                                                                                                                                                                    |    | 250A           |                                   | CABLE:         |                 | 4C+E 25                  |  |
| PHASES:                                                                                                                                                                                                                                                                                                            |    | A              |                                   |                |                 |                          |  |
| PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE CONTROLS PROVIDED AS PART OF THE INITIAL WORKS. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. PROVIDE THE DB WITH SURGE PROTECTION. |    |                |                                   |                |                 |                          |  |
| CIRC                                                                                                                                                                                                                                                                                                               | PH | CIRCUIT        | CONTROL                           | CABLE          | LOCATION        | CIRCUIT                  |  |
|                                                                                                                                                                                                                                                                                                                    |    | BREAKER (amps) | EQUIPMENT                         | SIZE ( mm2 )   |                 | USE                      |  |
| P1                                                                                                                                                                                                                                                                                                                 | 1  | 20             | RCBO                              | 2.5            | ENTRY           | GATE                     |  |
| P2                                                                                                                                                                                                                                                                                                                 | 1  | 20             | RCBO                              | 2.5            | ENTRY           | GATE                     |  |
| P3                                                                                                                                                                                                                                                                                                                 | 1  | 20             | RCBO                              | 2.5            | ENTRY           | DIGITAL SIGN             |  |
| P4                                                                                                                                                                                                                                                                                                                 | 1  | 20             | RCBO                              | 2.5            | BOOSTER CABINET | BOOSTER                  |  |
| P5                                                                                                                                                                                                                                                                                                                 | 1  | 20             | RCBO                              | 2.5            | BOOSTER CABINET | BOOSTER                  |  |
| P6                                                                                                                                                                                                                                                                                                                 | 1  | 20             | RCBO                              | 2.5            | BOOSTER CABINET | BOOSTER                  |  |
| P7                                                                                                                                                                                                                                                                                                                 | 1  | 20             | RCBO                              | 2.5            | BOOSTER CABINET | BOOSTER                  |  |
|                                                                                                                                                                                                                                                                                                                    |    |                |                                   |                |                 |                          |  |
| L1                                                                                                                                                                                                                                                                                                                 | 1  | 20             | RCBO PE CELL ON<br>OFF AT DAWN    | 4.0            | CARPARK         | SECURITY LIGHTS          |  |
| L2                                                                                                                                                                                                                                                                                                                 | 1  | 20             | RCBO PE CELL ON<br>TC OFF 11.00PM | 4.0            | CARPARK         | GENERAL LIGHTING         |  |
| L3                                                                                                                                                                                                                                                                                                                 | 1  | 20             | RCBO PE CELL ON<br>OFF AT DAWN    | 2.5            | ENTRY           | SIGN                     |  |
| L4                                                                                                                                                                                                                                                                                                                 | 1  | 20             | RCD                               | 2.5            | BOOSTER CABINET | BOOSTER CABINET LIGHTS   |  |
|                                                                                                                                                                                                                                                                                                                    |    |                |                                   |                |                 |                          |  |



LOCATION PLAN

STAGE 1 PROJECT 2 WORKS  
SCALE 1: 1000

|                                                                |                                                                                          |                                                                                                                                                                                                                                                                                               |                                                                        |                                                                             |                           |       |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------|-------|
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|                                                                | USE FIGURED DIMENSIONS<br>IN PREFERENCE TO SCALE.                                        |                                                                                                                                                                                                                                                                                               | GOLD COAST                                                             |                                                                             |                           |       |
|                                                                | ALL DIMENSIONS TO BE<br>VERIFIED ONSITE.                                                 |                                                                                                                                                                                                                                                                                               |                                                                        | KARRABIN ROSEWOOD ROAD, WALLOON                                             | SCALE:<br>1:1000          | AT A1 |
| TRADING AS:<br>ELECTRICAL DESIGN GROUP                         |                                                                                          |                                                                                                                                                                                                                                                                                               |                                                                        | PROJECT NO:<br><b>C3808a</b>                                                | DRAWING NO:<br><b>E01</b> |       |