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.

M1 — QECM V4 AUTHORITY RETAIL METER.

M2 — QECM V4 SOLAR PROTECTION CTs.

M3 — PRIVATE MULT–FUNCTION DEMAND LOGGING METER.

SPD — SURGE PROTECTION DEVICE.

MTS — MANUAL TRANSFER SWITCH C/W STATUS OUTPUT RELAY.

SM — 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.

DS — 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.

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

C1 — C1: NBN TYPE 2 LEADIN PIT.

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

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

P1 — 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 — P2: 1200 x 1200 x 1050 DEEP INSITU POWER PIT C/W A REINFORCED CONCRETE SURROUND AND A CLASS B STEEL LID WITH A SLIP RESISTANCE OF R10 SUBMIT DETAILS OF THE PIT, LID AND AN INSTALLATION SECTION FOR APPROVAL.

P3 — P3: 600 x 600 x 1050 DEEP PLASTIC POWER PIT C/W A REINFORCED CONCRETE SURROUND AND A CLASS B STEEL LID WITH A SLIP RESISTANCE OF R10 SUBMIT DETAILS OF THE PIT, LID AND AN INSTALLATION SECTION FOR APPROVAL.

P4 — P4: 450 x 450 x 1050 DEEP PLASTIC POWER PIT C/W A REINFORCED CONCRETE SURROUND AND A CLASS B STEEL LID WITH A SLIP RESISTANCE OF R10 SUBMIT DETAILS OF THE PIT, LID AND AN INSTALLATION SECTION FOR APPROVAL.

P5 — P5: 900 x 900 x 1050 DEEP PLASTIC POWER PIT C/W A REINFORCED CONCRETE SURROUND AND A CLASS B STEEL LID WITH A SLIP RESISTANCE OF R10 SUBMIT DETAILS OF THE PIT, LID AND AN INSTALLATION SECTION FOR APPROVAL.

DISTRIBUITION 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 BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm2)	LOCATION	CIRCUIT USE
P1	3	63	MCB	4C+E 25	VEHICLE ENTRY GATE	DB-G
P2	1	20	RCBO	2.5	MSB PIT	SUMP PUMP
P3	1	20	RCBO	2.5	ENTRY	COMMS RACK CR-2
L1	1	20	RCBO PE CELL ON OFF AT DAWN	6.0	CARPARK	SECURITY LIGHTS
L2	1	20	RCBO PE CELL ON TC OFF 11.00PM	6.0	CARPARK	GENERAL LIGHTING
L3	1	20	RCBO PE CELL ON TC OFF 11.00PM	6.0	CARPARK	GENERAL LIGHTING
L4	1	20	RCBO PE CELL ON TC OFF 11.00PM	6.0	CARPARK	GENERAL LIGHTING
L5	1	20	RCBO PE CELL ON TC OFF 11.00PM	6.0	CARPARK	GENERAL LIGHTING

LEGEND

L1 — 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 R3241–120 R01606.

L2 — 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 R3241–120 R01606.

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

L4 — L4: 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 R3241–120 R01606.

CR-A — CR–A PRIMARY ADMINISTRATION BUILDING COMMUNICATIONS RACK INCLUDING A FOBOT PROVIDED AS PART OF THE PRIMARY ADMINISTRATION BUILDING CONTRACT.

CR-B — CR–B ELC BUILDING COMMUNICATIONS RACK INCLUDING A FOBOT PROVIDED AS PART OF THE ELC BUILDING CONTRACT.

CR-1 — CR–1 PROVIDE CR–1 AS A WALL MOUNTED LOCKABLE IP65 VENTILATED 12 RU MINIMUM 600 DEEP 316 STAINLESS STEEL COMMUNICATIONS RACK WITH A 12 PORT FOBOT AND A 24 PORT PATCH PANEL. PROVIDE A DOUBLE GPO MOUNTED WITHIN THE RACK ON THE NOMINATED CIRCUIT. PROVIDE DETAILS OF THE RACK FOR APPROVAL PRIOR TO ORDERING. CONNECT CR–1 TO CR–B WITH A 12 CORE OS2 GEL FILLED UNDERGROUND LC TERMINATED OPTICAL FIBRE CABLE.

CR-2 — CR–2 PROVIDE CR–2 AS A WALL MOUNTED LOCKABLE IP65 VENTILATED 12 RU MINIMUM 600 DEEP 316 STAINLESS STEEL COMMUNICATIONS RACK WITH A 12 PORT FOBOT AND A 24 PORT PATCH PANEL. PROVIDE A DOUBLE GPO MOUNTED WITHIN THE RACK ON THE NOMINATED CIRCUIT. PROVIDE DETAILS OF THE RACK FOR APPROVAL PRIOR TO ORDERING. CONNECT CR–2 TO CR–A WITH A 12 CORE OS2 GEL FILLED UNDERGROUND LC TERMINATED OPTICAL FIBRE CABLE.

CR-1 CAMERA — PROVIDE A CAT 6 RJ45 PLUG ON THE LIGHT POLE CABLED BACK TO A DEDICATED CCTV CAT 6 PATCH PANEL IN COMMUNICATIONS RACK CR–1 VIA YELLOW UNDERGROUND 4–PAIR CAT–6 UTP CABLE. PROVIDE THE PLUG SUCH THAT IT PROTRUDES OUT 150MM FROM A 20MM DIA HOLE IN THE POLE TO ALLOW THE CAMERA TO BE INSTALLED OVER THE HOLE WITH THE PLUG DIRECTLY CONNECTED INTO THE CONCEALED REAR OF THE CAMERA. CONFIRM THE HEIGHT OF THE PLUG ON THE POLE WITH THE COLLEGE.

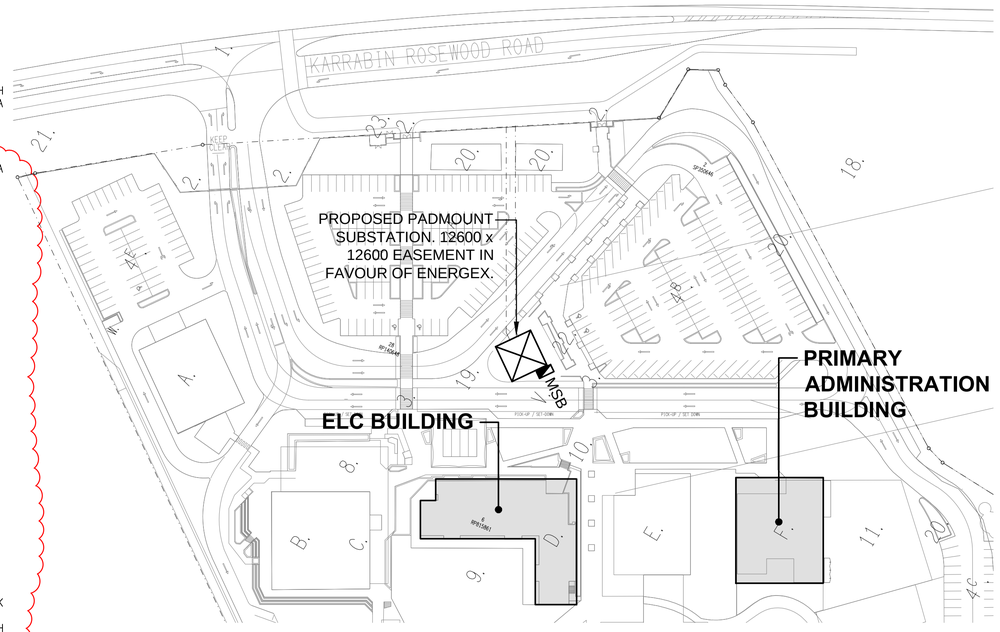
CR-2 CAMERA — PROVIDE A CAT 6 RJ45 PLUG ON THE LIGHT POLE CABLED BACK TO A DEDICATED CCTV CAT 6 PATCH PANEL IN COMMUNICATIONS RACK CR–2 VIA YELLOW UNDERGROUND 4–PAIR CAT–6 UTP CABLE. PROVIDE THE PLUG SUCH THAT IT PROTRUDES OUT 150MM FROM A 20MM DIA HOLE IN THE POLE TO ALLOW THE CAMERA TO BE INSTALLED OVER THE HOLE WITH THE PLUG DIRECTLY CONNECTED INTO THE CONCEALED REAR OF THE CAMERA. CONFIRM THE HEIGHT OF THE PLUG ON THE POLE WITH THE COLLEGE.

DISTRIBUITION 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 BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm2)	LOCATION	CIRCUIT 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
P8	1	20	RCBO	2.5	VEHICLE ENTRY	COMMS RACK CR-1
L1	1	20	RCBO PE CELL ON OFF AT DAWN	4.0	CARPARK	SECURITY LIGHTS
L2	1	20	RCBO PE CELL ON TC OFF 11.00PM	4.0	CARPARK	GENERAL LIGHTING
L3	1	20	RCBO PE CELL ON 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

REV:	DESCRIPTION:	DATE:
D	CONSTRUCTION	04/11/2026

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DRAWING:
ELECTRICAL SERVICES
LEGEND & LOCATION PLAN

SCALE: 1:1000 AT A1

PROJECT NO:	DRAWING NO:	REVISION:
C3808a	E01	D