



# ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

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C2691a - 20 COULSON STREET, WACOL

C2691a-0005(A).xls

DISTRIBUTION BOARD DB-4

REVISION A - 18 AUGUST 2022

							REV
FAULT CURRENT: 6kA UTILISING CASCADING							A
MAIN SWITCH: 250A NON AUTO LOAD BREAK SWITCH							A
CHASSIS SIZE: 84 POLE POWER 24 POLE LIGHTING							A
SUPPLIED FROM: MSB							A
CHASSIS RATING: 250A							A
SUPPLY CABLE: 1C 120							A
PHASES: 3							A
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. PROVIDE A NCC BCA PART J8.3(A) TIME OF USE CONSUMPTION METER ON THE LOAD SIDE OF THE MAIN SWITCH. NCC BCA PART J8.3(B) AND J8.3(C) CENTRALLY MONITORED METERING OF EACH CHASSIS AND THE MECHANICAL SERVICES. PROVIDE A SHOP DRAWING OF THE SWITCHBOARD INCLUDING DETAILS OF ALL COMPONENTS AND THE METERING SYSTEM FOR APPROVAL.							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm2)	LOCATION	CIRCUIT USE	
P1	1	20	RCBO	2.5	WALL	GPO	A
P2	1	20	RCBO	2.5	WALL	GPO	A
P3	1	20	RCBO	2.5	WALL	GPO	A
P4	1	20	RCBO	2.5	WALL	GPO	A
P5	1	20	RCBO	2.5	WALL	GPO	A
P6	3	20	RCBO	2.5		RSD	A
P7	1	20	RCBO	2.5	ENTRY	GPO	A
P8	1	20	RCBO	2.5	GROUND	GPO	A
P9	1	20	RCBO	2.5	GROUND	GPO	A
P10	1	20	RCBO	2.5	GROUND AMENITY	GPO	A
P11	1	20	RCBO	2.5	EXTERNAL	RAIN WATER	A
P12	3	40		6.0	EXTERNAL	AC	A
P13	3	40		6.0	EXTERNAL	AC	A
P14	1	20	RCBO	2.5	EXTERNAL	GPO	A
P15	1	20	RCBO	2.5	GROUND KITCHEN	GPO	A
P16	1	20	RCBO	2.5	GROUND KITCHEN	REF	A
P17	3	40	RCBO	6.0	GROUND KITCHEN	28KW HWS	A
P18	1	20	RCBO	2.5	LEVEL 1	GPO	A
P19	1	20	RCBO	2.5	LEVEL 1	GPO	A
P20	1	20	RCBO	2.5	LEVEL 1 AMENITY	GPO	A
P21	1	20	RCBO	2.5	LEVEL 1	CR-B	A
P22	1	20	RCBO	2.5	LEVEL 1 KITCHEN	GPO	A
P23	1	20	RCBO	2.5	LEVEL 1 KITCHEN	REF	A
P24	3	40	RCBO	6.0	LEVEL 1 KITCHEN	28KW HWS	A
L1	1	20	RCBO PE CELL ON DUSK OFF DAWN	2.5	EXTERNAL	SECURITY	A
L2	1	20	RCBO PE CELL ON DUSK TC OFF 10.00PM	2.5	EXTERNAL	NIGHT LIGHTS	A
L3	1	20	RCBO	2.5	INTERNAL	LIGHTS	A
L4	1	20	RCBO	2.5	ENTRY	LIGHTS	A
L5	1	20	RCBO	2.5	GROUND	LIGHTS	A
L6	1	20	RCBO	2.5	GROUND	LIGHTS	A
L7	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L8	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L9	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L10	1	20	RCBO PE CELL ON DUSK OFF DAWN	2.5	INTERNAL	SIGN	A
L11	1	20	RCBO TC ON 6.00 AM OFF 10.00 PM	2.5	INTERNAL	EXHAUST FAN	A