



ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

P.O. Box 15, SHERWOOD Q. 4075

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C3204a - REDLANDS SPORTING CLUB - REFURBISHMENT

C3204a-0006(E).xls

DISTRIBUTION BOARD DB-3

REVISION E - 15 AUGUST 2024

FAULT CURRENT: 6KA CHASSIS SIZE: 3 X 72 POLE CHASSIS RATING: 250A PHASES: 3							MAIN SWITCH: 250A NON AUTO LOAD BREAK SUPPLIED FROM: MSB SUPPLY CABLE: 4 x 1C 95Cu 35Cu E TREFOIL		REV
PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE CONTROLS INCLUDING THE DYNALITE EQUIPMENT 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. EACH CUBICAL CONTAINING A 72 POLE CHASSIS MUST BE AT LEAST 700 WIDE. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS. IN ADDITION TO THE BELOW CIRCUITS ALLOW TO RECONNECT ALL OF THE EXISTING DB-3 CIRCUITS THAT REMAIN TO THE NEW DB-3 WITH NEW SWITCHGEAR AND CONTROLS THAT MATCH THE EXISTING IN CAPACITY AND FUNCTION.									A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm ²)	LOCATION	CIRCUIT USE			
P1	1	20	RCBO	2.5		TV	A		
P2	1	20	RCBO	2.5		GPOs	A		
P3	1	20	RCBO	2.5		TV	A		
P4	1	20	RCBO	2.5		GPOs	A		
P5	1	20	RCBO	2.5	PARENTS ROOM	GPOs	A		
P6	1	20	RCBO	2.5		GPOs	A		
P7	1	20	RCBO	2.5		TV	A		
P8	1	20	RCBO	2.5	EXTERNAL	COOLROOM COMP	A		
P9	1	20	RCBO	2.5	EXTERNAL	COOLROOM COMP	A		
P10	3	20	RCBO	2.5	EXTERNAL	FREEZER COMP	A		
P11	3	40		6.0	KITCHEN	DISHWASHER	A		
P12	1	20	RCBO	2.5		ICE MACHINE	A		
P13	1	20	RCBO	2.5		POST MIX	A		
P14	1	20	RCBO	2.5		POST MIX	A		
P15	1	20	RCBO	2.5		COFFEE	A		
P16	1	20	RCBO	2.5		GPOs	A		
P17	1	20	RCBO	2.5		REF	A		
P18	1	20	RCBO	2.5		REF	A		
P19	3	32	RCBO	6.0	KITCHEN	IVARIO	A		
P20	1	20	RCBO	2.5		POS	A		
P21	1	20	RCBO	2.5		REF	A		
P22	1	20	RCBO	2.5	KITCHEN	PIZZA	A		
P23	1	20	RCBO	2.5		REF	A		
P24	1	20	RCBO	2.5		HEAT LAMPS	A		
P25	1	20	RCBO	2.5		HEAT DRAW	A		
P26	1	20	RCBO	2.5		HEAT LAMPS	A		
P27	1	20	RCBO	2.5		REF	A		
P28	1	20	RCBO	2.5		BAINIE MARIE	A		
P29	3	40		6.0	KITCHEN	22KW FRYER	A		
P30	1	20	RCBO	2.5	KITCHEN	GAS STARTERS	A		
P31	1	20	RCBO	2.5	KITCHEN	REF	A		
P32	3	20	RCBO	2.5	KITCHEN	TURBO CHEF	A		
P33	3	40		6.0	KITCHEN	22KW FRYER	A		
P34	3	40		6.0	KITCHEN	22KW FRYER	A		
P35	1	20	RCBO	2.5	KITCHEN	FREEZER	A		
P36	3	32	RCBO	6.0	KITCHEN	COMBI	A		
P37	3	20	RCBO	2.5	KITCHEN	COMBI	A		
P38	1	20	RCBO	2.5	KITCHEN	OIL	A		
P39	1	20	RCBO	2.5	KITCHEN	REF	A		
P40	1	20	RCBO	2.5	KITCHEN	CHIP DUMP	A		
P41	1	20	RCBO	2.5	KITCHEN	COOL ROOM	A		
P42	1	20	RCBO	2.5	KITCHEN	REF	A		
P43	1	20	RCBO	2.5	KITCHEN	COOL ROOM	A		
P44	3	32	RCBO	6.0	KITCHEN	19KW DW	A		



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REVISION E - 15 AUGUST 2024

							REV
FAULT CURRENT:		6KA	MAIN SWITCH:		250A NON AUTO LOAD BREAK		A
CHASSIS SIZE:		3 X 72 POLE	SUPPLIED FROM:		MSB		A
CHASSIS RATING:		250A	SUPPLY CABLE:		4 x 1C 95Cu 35Cu E TREFOIL		A
PHASES:		3					A
<p>PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE CONTROLS INCLUDING THE DYNALITE EQUIPMENT 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. EACH CUBICAL CONTAINING A 72 POLE CHASSIS MUST BE AT LEAST 700 WIDE. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS. IN ADDITION TO THE BELOW CIRCUITS ALLOW TO RECONNECT ALL OF THE EXISTING DB-3 CIRCUITS THAT REMAIN TO THE NEW DB-3 WITH NEW SWITCHGEAR AND CONTROLS THAT MATCH THE EXISTING IN CAPACITY AND FUNCTION.</p>							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm ²)	LOCATION	CIRCUIT USE	
P45	1	20	RCBO	2.5	STORE	MAINTENANCE	A
P46	1	20	RCBO	2.5	AMENITY	HD	A
P47	3	25	RCBO	4.0	ROOF	CU-3	A
P48	1	20	RCBO	2.5		AC 3-1 OAF-1	A
P49	1	20	RCBO	2.5		AC 3-2 OAF-2	B
P50	1	20	RCBO	2.5	EXTERNAL	HWS CIRC PUMP	A
P51	1	20	RCBO	2.5	AMENITY	HWS	A
P52	1	20	RCBO	2.5	RESTAURANT	WAITER STATIONS	D
P53	3	20	RCBO	2.5	KITCHEN	10.5KW PASTA COOKER	E
P54	3	20	RCBO	2.5	KITCHEN	10.5KW PASTA COOKER	E
L1	1	20	RCBO	2.5		SIGN LIGHTS	A
L2	1	20	RCBO	2.5		LIGHTS	A
L3	1	20	RCBO	2.5		LIGHTS	A
L4	1	20	RCBO	2.5		LIGHTS	A
L5	1	20	RCBO	2.5		LIGHTS	A
L6							B
L7	1	20	RCBO	2.5		LIGHTS	A
L8	1	20	RCBO	2.5		LIGHTS	A
L9	1	20	RCBO	2.5		LIGHTS	A
L10	1	20	RCBO	2.5		LIGHTS	A
L11	1	20	RCBO	2.5		LIGHTS	A
L12	1	20	RCBO	2.5		LIGHTS	A
L13	1	20	RCBO	2.5		LIGHTS	A
L14	1	20	RCBO	2.5		LIGHTS	A
L15	1	20	RCBO	2.5	BOH	LIGHTS	A
L16	1	20	RCBO	2.5	SERVERY	HEAT LAMPS	A
L17	1	20	RCBO	2.5	STORE	LIGHTS	C