



ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

P.O. Box 15, SHERWOOD Q. 4075

Phone: (07) 3278 4375

Website: www.edg.net.au Email: brisbane@edg.net.au

C1713a - MERMAID BEACH TAVERN

C1713a-0008(D).xls

DISTRIBUTION BOARD DB-A (LOWER GROUND OFFICE)

REVISION D - 30 SEPTEMBER 2020

| FAULT CURRENT: 6kA CHASSIS SIZE: 2 X 84 POLES CHASSIS RATING: 250A PHASES: 3 | | | | | | | REV |
|--|----|------------------------|-------------------|--------------------------------|---------------|-------------------|-----|
| MAIN SWITCH: 250A NON AUTO LOAD BREAK SUPPLIED FROM: MSB SUPPLY CABLE: 1C 70 | | | | | | | A |
| | | | | | | | A |
| | | | | | | | A |
| PROVIDE THE DB WITH TWO 700 WIDE EMPTY DIN RAILS 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. THE DB IS TO BE CUSTOM MADE WITH A MINIMUM WIDTH OF 1,400MM, LIFT OFF LOCKABLE DOORS SECURED BY A THREE POINT MECHANISM, LIFT OFF HINGED ESCUTCHEONS C/W STAINLESS D HANDLES SECURED BY 1/4 TURN LATCHES. THE CONTROLS ARE TO BE LOCATED IN AN ELECTRICALLY SEPERATE CUBICAL. LOCATE A COMMUNICATIONS OUTLET IN THE LIGHTING CONTROL CUBICAL. ENCLOSURE IP 44 LIGHT GRAY. ESCUTCHEON WHITE. PROVIDE A SHOP DRAWING OF THE DB INCLUDING ALL OF THE LIGHTING CONTROL EQUIPMENT FOR APPROVAL. | | | | | | | A |
| CIRC | PH | CIRCUIT BREAKER (amps) | CONTROL EQUIPMENT | CABLE SIZE (mm ²) | LOCATION | CIRCUIT USE | A |
| P1 | 1 | 20 | RCD | 2.5 | LG COMMS ROOM | CR1 | A |
| P2 | 1 | 20 | RCD | 2.5 | LG COMMS ROOM | CR1 | A |
| P3 | 1 | 20 | RCD | 2.5 | LG COMMS ROOM | CR2 | A |
| P4 | 1 | 20 | RCD | 2.5 | LG COMMS ROOM | CR2 | A |
| P5 | 1 | 20 | RCD | 2.5 | LG COMMS ROOM | CR3 | A |
| P6 | 1 | 20 | RCD | 2.5 | LG COMMS ROOM | CR3 | A |
| P7 | 1 | 20 | RCD | 2.5 | LG COMMS ROOM | CR4 | A |
| P8 | 1 | 20 | RCD | 2.5 | LG COMMS ROOM | CR4 | A |
| P9 | 1 | 20 | RCD | 2.5 | LG COMMS ROOM | CR5 | A |
| P10 | 1 | 20 | RCD | 2.5 | LG COMMS ROOM | CR5 | A |
| P11 | 1 | 20 | RCD | 2.5 | LG COMMS ROOM | SECURITY | A |
| P12 | 1 | 20 | RCD | 2.5 | LOWER GROUND | CLEANING | A |
| P13 | 1 | 20 | RCD | 2.5 | OFFICE | CCTV MONITORS | A |
| P14 | 1 | 20 | RCD | 2.5 | OFFICE | OFFICE | A |
| P15 | 1 | 20 | RCD | 2.5 | OFFICE | PRINTER | A |
| P16 | 1 | 20 | RCD | 2.5 | GAMING | CRT | A |
| P17 | 1 | 20 | RCD | 2.5 | GAMING | CLEANING | A |
| P18 | 1 | 20 | RCD | 2.5 | GAMING | GAMING MACHINE | A |
| P19 | 1 | 20 | RCD | 2.5 | GAMING | GAMING MACHINE | A |
| P20 | 1 | 20 | RCD | 2.5 | GAMING | GAMING MACHINE | A |
| P21 | 1 | 20 | RCD | 2.5 | GAMING | GAMING MACHINE | A |
| P22 | 1 | 20 | RCD | 2.5 | GAMING | GAMING MACHINE | A |
| P23 | 1 | 20 | RCD | 2.5 | GAMING | GAMING MACHINE | A |
| P24 | 1 | 20 | RCD | 2.5 | GAMING | GAMING MACHINE | A |
| P25 | 1 | 20 | RCD | 2.5 | GAMING | FUTURE GAMING | A |
| P26 | 1 | 20 | RCD | 2.5 | GAMING | FUTURE GAMING | A |
| P27 | 1 | 20 | RCD | 2.5 | GAMING | MODEM | A |
| P28 | 1 | 20 | RCD | 2.5 | GAMING | SIGN CHARGER | A |
| P29 | 1 | 20 | RCD | 2.5 | GAMING | SIGN CHARGER | A |
| P30 | 1 | 20 | RCD | 2.5 | GAMING | SIGN CHARGER | A |
| P31 | 1 | 20 | RCD | 2.5 | GAMING | SIGN CHARGER | A |
| P32 | 1 | 20 | RCD | 2.5 | GAMING | SIGN CHARGER | A |
| P33 | 1 | 20 | RCD | 2.5 | GAMING | SIGN CHARGER | A |
| P34 | 1 | 20 | RCD | 2.5 | GAMING | GAMING MACHINE | A |
| P35 | 1 | 20 | RCD | 2.5 | EXTERNAL | GPOs | A |
| P36 | 1 | 20 | RCD | 2.5 | UPPER GROUND | ATM | A |
| P37 | 1 | 20 | RCD | 2.5 | UPPER GROUND | TV | A |
| P38 | 1 | 20 | RCD | 2.5 | UPPER GROUND | CLEANING | A |
| P39 | 1 | 20 | RCD | 2.5 | COURTYARD | GPOs | A |
| P40 | 1 | 20 | RCD | 2.5 | COURTYARD | MOTORISED LOUVERS | A |
| P41 | 1 | 20 | RCD | 2.5 | COURTYARD | MOTORISED LOUVERS | A |
| P42 | 1 | 20 | RCD | 2.5 | UL BAR | CHILLED WATER | A |
| P43 | 1 | 20 | RCD | 2.5 | UL BAR | SPARE | A |
| P44 | 1 | 20 | RCD | 2.5 | UL BAR | COUNTER | A |
| P45 | 1 | 20 | RCD | 2.5 | UL BAR | COUNTER | A |



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REVISION D - 30 SEPTEMBER 2020

| <p>FAULT CURRENT: 6kA</p> <p>CHASSIS SIZE: 2 X 84 POLES</p> <p>CHASSIS RATING: 250A</p> <p>PHASES: 3</p> | | | | | | | REV |
|---|----|------------------------|-------------------|--------------------------------|--------------|--------------------|-----|
| MAIN SWITCH: 250A NON AUTO LOAD BREAK | | | | | | | A |
| SUPPLIED FROM: MSB | | | | | | | A |
| SUPPLY CABLE: 1C 70 | | | | | | | A |
| <p>PROVIDE THE DB WITH TWO 700 WIDE EMPTY DIN RAILS 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. THE DB IS TO BE CUSTOM MADE WITH A MINIMUM WIDTH OF 1,400MM, LIFT OFF LOCKABLE DOORS SECURED BY A THREE POINT MECHANISM, LIFT OFF HINGED ESCUTCHEONS C/W STAINLESS D HANDLES SECURED BY 1/4 TURN LATCHES. THE CONTROLS ARE TO BE LOCATED IN AN ELECTRICALLY SEPERATE CUBICAL. LOCATE A COMMUNICATIONS OUTLET IN THE LIGHTING CONTROL CUBICAL. ENCLOSURE IP 44 LIGHT GRAY. ESCUTCHEON WHITE. PROVIDE A SHOP DRAWING OF THE DB INCLUDING ALL OF THE LIGHTING CONTROL EQUIPMENT FOR APPROVAL.</p> | | | | | | | A |
| CIRC | PH | CIRCUIT BREAKER (amps) | CONTROL EQUIPMENT | CABLE SIZE (mm ²) | LOCATION | CIRCUIT USE | A |
| P46 | 1 | 32 | RCD | 6.0 | UL BAR | COFFEE | A |
| P47 | 1 | 20 | RCD | 2.5 | UL BAR | REF | A |
| P48 | 1 | 20 | RCD | 2.5 | UL BAR | 3.6KW GLASS WASHER | A |
| P49 | 1 | 20 | RCD | 2.5 | UL BAR | OSMOSIS | A |
| P50 | 1 | 20 | RCD | 2.5 | UL BAR | 3.6KW GLASS WASHER | A |
| P51 | 1 | 20 | RCD | 2.5 | UL BAR | COUNTER | A |
| P52 | 1 | 20 | RCD | 2.5 | UL BAR | REF | A |
| P53 | 3 | 20 | RCD | 2.5 | UL BAR | HWS | C |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| L1 | 1 | 20 | RCD | 2.5 | EXTERNAL | PYLON SIGN | A |
| L2 | 1 | 20 | RCD | 2.5 | EXTERNAL | FACIA SIGN | A |
| L3 | 1 | 20 | RCD | 2.5 | EXTERNAL | FACIA SIGN | A |
| L4 | 1 | 20 | RCD | 2.5 | LOWER GROUND | OFFICE | A |
| L5 | 1 | 20 | RCD | 2.5 | LG DOSA | HEATER | A |
| L6 | 1 | 20 | RCD | 2.5 | LOWER GROUND | ENTRY SIGN | A |
| L7 | 1 | 20 | RCD | 2.5 | LOWER GROUND | LIGHTS | A |
| L8 | 1 | 20 | RCD | 2.5 | LOWER GROUND | SIGN | A |
| L9 | 1 | 20 | RCD | 2.5 | LOWER GROUND | LIGHTS | A |
| L10 | 1 | 20 | RCD | 2.5 | LOWER GROUND | LIGHTS | A |
| L11 | 1 | 20 | RCD | 2.5 | LOWER GROUND | LIGHTS | A |
| L12 | 1 | 20 | RCD | 2.5 | UPPER GROUND | LIGHTS | A |
| L13 | 1 | 20 | RCD | 2.5 | UPPER GROUND | LIGHTS | A |
| L14 | 1 | 20 | RCD | 2.5 | UPPER GROUND | LIGHTS | A |
| L15 | | | | | | | B |
| L16 | | | | | | | B |
| L17 | | | | | | | D |
| L18 | 1 | 20 | RCD | 2.5 | UPPER GROUND | LIGHTS | A |
| L19 | 1 | 20 | RCD | 2.5 | UPPER GROUND | LIGHTS | A |
| L20 | 1 | 20 | RCD | 2.5 | UPPER GROUND | LIGHTS | A |
| L21 | 1 | 20 | RCD | 2.5 | UPPER GROUND | LIGHTS | A |
| L22 | 1 | 20 | RCD | 2.5 | UPPER GROUND | LIGHTS | A |
| L23 | 1 | 20 | RCD | 2.5 | UPPER GROUND | LIGHTS | A |
| L24 | 1 | 20 | RCD | 2.5 | UPPER GROUND | LIGHTS | A |
| L25 | 1 | 20 | RCD | 2.5 | UPPER GROUND | LIGHTS | A |
| L26 | | | | | | | D |
| L27 | 1 | 20 | RCD | 2.5 | UPPER GROUND | LIGHTS | A |
| L28 | 1 | 20 | RCD | 2.5 | UPPER GROUND | LIGHTS | A |
| L29 | 1 | 20 | RCD | 2.5 | EXTERNAL | LIGHTS | A |
| L30 | 1 | 20 | RCD | 2.5 | EXTERNAL | LIGHTS | A |
| L31 | 1 | 20 | RCD | 2.5 | UPPER GROUND | LIGHTS | A |
| L32 | 1 | 20 | RCD | 2.5 | EXTERNAL | LIGHTS | A |
| L33 | 1 | 20 | RCD | 2.5 | STAIR | LIGHTS | A |
| L34 | 1 | 20 | RCD | 2.5 | EXTERNAL | LIGHTS | A |
| L35 | 1 | 20 | RCD | 2.5 | UPPER GROUND | LIGHTS | A |
| L36 | 1 | 20 | RCD | 2.5 | UPPER GROUND | LIGHTS | A |
| L37 | 1 | 20 | RCD | 2.5 | UPPER GROUND | LIGHTS | A |