NOTES

1. EXTENT OF WORKS

THE ELECTRICAL SERVICES SUB-CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: - SUPPLY AND INSTALLATION OF ALL COMPONENTS FORMING PART OF THE ELECTRICAL SERVICES.

- CO-ORDINATION.
- INSPECTIONS.
- TESTING AND COMMISSIONING.
- MAINTENANCE. - CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- POWER DISTRIBUTION.
- LIGHTING.
- COMMUNICATION CABLING. - FIRE ALARM SYSTEM
- MAINTENANCE MANUAL DETAILING ALL COMPONENTS OF THE WORKS AND INCLUDING AS
- CONSTRUCTED DOCUMENTS.

- ALL MINOR COMPONENTS AND INCIDENTAL WORKS NOT SPECIFICALLY REFERRED TO, HOWEVER NECESSARY TO COMPLETE THE ELECTRICAL SERVICES INSTALLATION SUCH THAT IT IS HANDED OVER COMPLETE, OPERATIONAL AND FIT FOR THE INTENDED USE.

SUPPLY ALL LABOUR, MATERIALS, EQUIPMENT, AND ALL OTHER ITEMS, WHETHER MENTIONED IN DETAIL OR NOT, REQUIRED FOR THE SATISFACTORY COMPLETION OF THE ELECTRICAL SERVICES INSTALLATION, LEAVING IN FULL WORKING ORDER TO THE SATISFACTION OF THE PROJECT MANAGER.

ACCEPT FULL RESPONSIBILITY FOR LIASING, ARRANGING AND CO-ORDINATION OF ALL WORKS THAT HAVE AN EFFECT ON OR WILL BE AFFECTED BY THE ELECTRICAL SERVICES.

REFER TO THE EQUIPMENT SCHEDULE FOR ADDITIONAL REQUIREMENTS.

2. WORKMANSHIP

ENSURE THAT THE WORK IS PERFORMED BY THE HOLDER OF A CURRENT ELECTRICAL SUB CONTRACTOR LICENSE. ENSURE THE INSTALLATION AND ALL COMPONENTS, FIXTURES, FITTINGS, OUTLETS AND CABLES ARE SUPPLIED AND INSTALLED TO A HIGH STANDARD THROUGHOUT, AND INSTALLED IN A NEAT AND TRADESMAN LIKE MANNER, TO THE CURRENT INDUSTRY STANDARDS. ENSURE ALL MATERIALS AND COMPONENTS OF A SIMILAR TYPE ARE OF THE SAME MANUFACTURER AND INSTALLED IN A UNIFORM MANNER.

IT IS THE ELECTRICAL SUB CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE INSTALLATION IS FIT FOR PURPOSE AND IS PROVIDED AS A COMPLETE WORKING INSTALLATION. IT IS THE ELECTRICAL SUB CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL COMPONENTS, FITTINGS, FIXTURES, SYSTEMS, PROGRAMMING ETC IRRESPECTIVE OF THE LEVEL DETAILED IN THE DOCUMENTS SUCH THAT THE INSTALLATION IS PROVIDED AS A COMPLETE WORKING INSTALLATION.

CONCEAL ALL WIRING AND CONDUITS. EXPOSED CABLING OR CONDUITS ARE GENERALLY NOT ACCEPTABLE. IT IS NOTED THAT CHASING AND REINSTATEMENT WILL BE REQUIRED. ENSURE ALL COMPONENTS, EQUIPMENT AND MATERIALS SUPPLIED ARE NEW, UNUSED, DESIGNED AND SELECTED TO ENSURE SATISFACTORY OPERATION UNDER VARYING ATMOSPHERIC, CLIMATIC, HUMID TROPICAL CONDITIONS WITHOUT DISTORTION AND DETERIORATION IN ANY PART AFFECTING EFFICIENCY AND RELIABILITY OF THE SYSTEMS. DESIGN AND SELECT ALL EQUIPMENT TO PROVIDE THE NECESSARY SAFETY TO HUMAN LIFE AND PROPERTY DURING OPERATION AND MAINTENANCE WITH PARTICULAR ATTENTION GIVEN TO ELECTRICAL SAFETY AND SEGREGATION PRECAUTIONS.

CHECK THE FINISHED PAINTWORK AROUND THE AREA OF EACH INSTALLATION AND TOUCH UP ALL DAMAGED PARTS AND FINISHES AFTER THE INSTALLATION OF THE ELECTRICAL SERVICES.

ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE BUILDER'S PROGRAM. ENSURE ALL FINAL LOCATIONS OF OUTLETS AND FITTINGS ARE CO-ORDINATED ONSITE WITH THE ARCHITECT AND ALL OTHER SERVICES, TO THE APPROVAL OF THE PROJECT MANAGER. ALLOW TO CO-ORDINATE THE FINAL LOCATION OF ALL EQUIPMENT, FITTINGS, & OUTLETS, SUCH THAT THEY ARE INSTALLED IN ACCORDANCE WITH THE AS3000 RESTRICTED ZONES, AND ARE NOT COVERED INAPPROPRIATELY.

ENSURE THAT ALL METAL SURFACES ARE SUITABLY PROTECTED AGAINST CORROSION, AND THAT ALL PLASTIC MATERIALS ARE UV STABILISED.

PROVIDE ALL MATERIALS AS NEW, AND OF THE HIGHEST CLASS AVAILABLE FOR THEIR RESPECTIVE TYPES. ENSURE ALL ASPECTS OF THE WORK ARE OF A HIGH STANDARD THROUGHOUT. AND INSTALLED IN A NEAT AND TRADESMAN LIKE MANNER, TO THE CURRENT INDUSTRY STANDARDS.

3. STANDARDS

IRRESPECTIVE OF INFORMATION CONTAINED IN THE ELECTRICAL SERVICES DOCUMENTS OR IN INSTRUCTIONS, IT IS THE ELECTRICAL SUB CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL ELECTRICAL SERVICES WORKS ARE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING. REFER ANY DISCREPANCIES BETWEEN THE REQUIREMENTS OF THE FOLLOWING AND/OR THE ELECTRICAL SERVICES DOCUMENTS AND INSTRUCTIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO THE PLACING OF ORDERS. FABRICATION OR INSTALLATION OF THE ITEMS/METHODS IN DISCREPANCY.

- NCC BUILDING CODE OF AUSTRALIA.
- ELECTRICITY ACT. - ELECTRICAL SAFETY ACT.
- AS/NZS3000.
- AS3008.
- AS 1670. 1 - AS 1170.4.
- WORKPLACE HEALTH AND SAFETY ACT.
- TELECOMMUNICATIONS ACT. ACMA REQUIREMENTS.
- 4. AUTHORITIES

ENSURE ALL OF THE ELECTRICAL SERVICES COMPLY WITH THE REQUIREMENTS OF ALL REGULATORY AUTHORITIES HAVING JURISDICTION OVER THE SITE INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- ACMA. LOCAL COUNCIL.
- LOCAL SUPPLY AUTHORITY.
- STATE GOVERNMENT DEPARTMENT OF ENVIRONMENT AND HERITAGE.
- QLD GOVERNMENT, DIVISION OF WORKPLACE, HEALTH AND SAFETY. QLD FIRE AND EMERGENCY SERVICES.
- 5. CABLES

UNLESS OTHERWISE SPECIFIED, INSTALL AND TERMINATE CABLES IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS. DETERMINE THE FINAL ROUTES TO SUIT THE BUILDING STRUCTURE AND SITE CONDITIONS. UNLESS NOTED OTHERWISE, PROVIDE ALL 240 VOLT POWER AND LIGHTING WIRING AS 2.5mm2 TWIN & EARTH STRANDED COPPER CONDUCTORS, PVC INSULATED 0.6/1kV V75 GRADE TO AS3174, PROTECTED BY A 20 AMP CIRCUIT BREAKER. ALL CONDUIT AND FITTINGS TO BE RIGID UPVC TO AS2053, UNLESS NOTED OTHERWISE.

NOTES

6. POWER DISTRIBUTION

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES MODIFYING THE TWO EXISTING DB-M DISTRIBUTION BOARDS AND THE PROVISION OF A NEW DISTRIBUTION BOARD DB-6 TO ACCOMMODATE THE PROPOSED WORKS.

THE EXISTING DB-M DISTRIBUTION BOARD WITH THE 125 AMP SUPPLY IS TO BE KNOWN AS DB-M1.

THE EXISTING DB-M DISTRIBUTION BOARD WITH THE 250 AMP SUPPLY IS TO BE KNOWN AS DB-M2.

THE EXISTING 100 AMP COOL ROOM SUBMAIN SUPPLIED FROM DB-M1 IS TO BE MOVED TO DB-M2. ALL OF THE EXISTING DB-M2 CIRCUITS 63 AMPS AND LESS ARE TO BE MOVED TO DB-M1.

PROVIDE A NEW DISTRIBUTION BOARD DB-6 SUPPLIED VIA A 4C 70mm2 Cu XLPE/PVC + E SUBMAIN FROM A NEW 160AMP MCCB MOUNTED ON THE EXISTING MSBs NON ESSENTIAL CHASSIS.

THE POWER SUPPLY TO THE REMAINDER OF THE CLUB THAT IS NOT BEING RENOVATED IS TO BE MAINTAINED AT ALL TIMES THE CLUB IS OPEN. ANY INTERRUPTION TO THE POWER SUPPLY MUST BE ADVISED TO THE OPERATOR IN WRITING TWO WEEKS PRIOR.

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE

- FOLLOWING EXTENT OF WORK:
- POWER DISTRIBUTION. EARTHING.
- CIRCUITS
- ISOLATORS AND OUTLETS. - TESTING AND COMMISSIONING.
- REMOVAL OF ALL EXISTING POWER SERVICES.

REFER TO THE DISTRIBUTION BOARD SCHEDULE FOR ADDITIONAL REQUIREMENTS AND CIRCUIT DETAILS.

7. LIGHTING

THE LIGHTING COMPONENT OF THIS CONTRACT INCLUDES THE MODIFICATION OF THE EXISTING PHILIPS DYNALITE LIGHTING CONTROL SYSTEM TO CONTROL ALL OF THE LIGHTING WITHIN THE AREA OF THE WORKS.

ALL OF THE LIGHT FITTINGS, LAMPS AND ACCESSORIES ARE TO BE PROVIDED AS PART OF THIS CONTRACT. THE LIGHTING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- LIGHTING. LIGHT FITTINGS AND ACCESSORIES.
- LAMPS. - EARTHING OF THE LIGHTING INSTALLATION.
- LIGHTING CONTROL
- LIGHTING SUBCIRCUITS.
- TESTING AND COMMISSIONING.
- RECONNECTION OF THE CARPARK LIGHTING.
- REMOVAL OF ALL EXISTING REDUNDANT LIGHTING SERVICES.

PROVIDE DB-6 WITH A SINGLE POINT EMERGENCY LIGHTING SYSTEM TO COMPLY WITH THE LATEST ISSUE OF ALL PARTS AS2293 AND THE RELEVANT PARTS OF THE NCC BCA. INSTALL EMERGENCY LIGHT FITTINGS NOMINATED AS MAINTAINED WITH THE LAMP PERMANENTLY ON SUPPLIED VIA AN UNSWITCHED ACTIVE MAINS SUPPLY WHEN THE MAINS SUPPLY IS AVAILABLE. WHEN THE MAINS SUPPLY IS NOT AVAILABLE, THE LAMP IS TO REMAIN ON SUPPLIED BY THE EMERGENCY PACK. SINGLE LAMP MAINTAINED EMERGENCY LIGHTS ARE NOT SWITCHED WITH THE LOCAL GENERAL AREA LIGHTING. (THE LAMP IS ALWAYS ON.)

INSTALL EMERGENCY LIGHT FITTINGS NOMINATED AS NON-MAINTAINED AS FOLLOWS: - IF THE FITTING IS NOT BEING SWITCHED, THE LAMP IS TO REMAIN OFF WHEN THE MAINS SUPPLY IS AVAILABLE. WHEN THE MAINS SUPPLY IS NOT AVAILABLE THE LAMP IS TO BE SWITCHED ON SUPPLIED BY THE EMERGENCY PACK. UNSWITCHED SINGLE LAMP NON-MAINTAINED EMERGENCY LIGHTS ARE NOT SWITCHED WITH THE LOCAL GENERAL AREA LIGHTING. (THE LAMP IS ON ONLY WHEN THE MAINS SUPPLY IS NOT AVAILABLE.

- IF THE FITTING IS BEING SWITCHED, THE LAMP IS TO BE SUPPLIED AND CONTROLLED WITH THE LOCAL GENERAL AREA LIGHTING WHEN THE MAINS SUPPLY IS AVAILABLE. WHEN THE MAINS SUPPLY IS NOT AVAILABLE THE LAMP IS TO BE SWITCHED ON, SUPPLIED BY THE EMERGENCY PACK. (THE LAMP IS ON WHEN TURNED ON WITH THE LOCAL GENERAL LIGHTING OR THE MAIN SUPPLY IS NOT AVAILABLE.)

INSTALL EMERGENCY LIGHTS SUCH THAT THE STATUS INDICATOR L.E.D. IS CLEARLY VISIBLE AND THE TEST BUTTONS ARE READILY ACCESSIBLE. LABEL EACH CIRCUIT BREAKER WHICH CONTROLS THE UNSWITCHED ACTIVE TO EXIT LIGHTS WITH A LABEL FIXED ADJACENT; ENGRAVED PLASTIC LAMINATE, GREEN BACKGROUND WITH WHITE CHARACTERS: -

WARNING

INTERRUPTING SUPPLY WILL DISCHARGE EMERGENCY LIGHTING BATTERIES

PROVIDE WRITTEN EVIDENCE OF THE INITIAL COMMISSIONING AND TESTING AND TESTING FOR THE DURATION OF THE MAINTENANCE PERIOD IN ACCORDANCE WITH AS 2293.2.

THIS EVIDENCE IS TO BE IN THE FORM OF A LOG BOOK SIMILAR TO THE GENERAL LIGHTING SERVICE PTY LTD "EMERGENCY LIGHTING MAINTENANCE LOG BOOK AND MANUAL" WHICH IS TO BE PROVIDED BY THE ELECTRICAL SUB-CONTRACTOR AND HAVE ALL ENTRIES FULLY COMPLETED AND BE PRESENTED FOR INSPECTION AT PRACTICAL COMPLETION. THE LOG BOOK IS TO BE RETAINED BY THE ELECTRICAL SUB-CONTRACTOR FOR THE DURATION OF THE MAINTENANCE PERIOD, AND THE SIX MONTHLY TEST AND MAINTENANCE RESULTS ENTERED. THE LOG BOOK IS TO BE PRESENTED FOR APPROVAL AT FINAL COMPLETION (EXPIRY OF THE MAINTENANCE PERIOD) AND WILL BE FORWARDED TO THE OPERATOR FOR THEIR USE.

PROVIDE MAINTENANCE OF THE EMERGENCY AND EXIT LIGHTING INSTALLATION INCLUDING RECORDS IN ACCORDANCE WITH THE LATEST ISSUE OF ALL PARTS AS2293 AND THE RELEVANT PARTS OF THE NCC BCA. PROVIDE THE EMERGENCY LIGHTING SYSTEM WITH A SUPPLY SENSING AND TESTING FACILITY IN ACCORDANCE WITH AS 2293.1.

8. COMMUNICATIONS CABLING

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES NEW CAT 6 OUTLETS TO THE EXISTING RACK (CR-1). THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- UPGRADING OF THE EXISTING COMMUNICATIONS RACK CR-1. - PATCH PANELS AS NECESSARY.
- CAT 6 COMMUNICATIONS OUTLETS AND CABLING.
- TESTING AND COMMISSIONING.
- REMOVAL OF ALL EXISTING COMMUNICATIONS CABLING MADE REDUNDANT BY THE WORKS.

THE TAB COMMUNICATIONS CABLING WILL BE ARRANGED BY THE CLUB OUTSIDE OF THIS CONTRACT.

LEGEND

ELECTRICAL SERVICES SWITCHBOARD.

SWITCHBOARD BY OTHERS

- SINGLE POWER OUTLET.

DOUBLE POWER OUTLET.

SPECIAL PURPOSE POWER OUTLET.

- SINGLE PHASE ISOLATOR.
- TWO PHASE ISOLATOR
- THREE PHASE ISOLATOR.
- LIGHTING CONTROL SWITCH PANEL.
- LIGHTING CONTROL PRESENCE DETECTOR.
- ONE-WAY SWITCH.

POWER CIRCUIT DESIGNATION. DB-x - Py DENOTES DB AND CIRCUIT.

SWITCH LINE

CIRCUIT LINE.



▼ RJ45 CAT-6 COMMUNICATIONS OUTLET.

ELECTRICAL EQUIPMENT AS NOTED.

DOUBLE POWER OUTLET C/W 2 x USB-A AND 1 x USB-C POINTS.

NOTES

9. FIRE ALARM SYSTEM

- THE FIRE ALARM SYSTEM IS TO BE PROVIDED AS A DESIGN AND CONSTRUCT PACKAGE UNDER THE ELECTRICAL SUBCONTRACT WITH ALL MODIFICATIONS, UPGRADES AND ADDITIONS AS NECESSARY TO ACCOMMODATE THE WORKS . THE FIRE ALARM SYSTEM WORK MUST BE PERFORMED BY A CONTRACTOR REGISTERED BY THE QBCC AND FIRE PROTECTION CONTRACTORS REGISTRATION BOARD OF QUEENSLAND INC. PROVIDE A COPY OF THE CONTRACTORS REGISTRATIONS FOR APPROVAL PRIOR TO COMMENCING WORK AND INCLUDE A COPY IN THE OPERATIONS AND MAINTENANCE MANUAL
- THE FIRE ALARM SYSTEM COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:
- SYSTEM DESIGN AND FORM 15 CERTIFICATION. UNWANTED ALARMS REPORT
- LAYOUT AND FOR CONSTRUCTION SHOP DRAWINGS FOR APPROVAL.
- BRIGADE MONITORING.
- FIRE INDICATOR PANEL. DETECTION.
- CONCEALED SPACE DETECTION.
- INTERFACES. ALERT AND EVACUATION SYSTEM.
- TESTING AND COMMISSIONING.
- AS CONSTRUCTED DOCUMENTATION. -THE CONTRACTOR IS RESPONSIBLE FOR PAYING ANY CALL OUT FEES ISSUED BY QFES THAT ARE THE RESULT OF DEFECTIVE WORKS, CABLING OR SYSTEM COMPONENTS
- PROVIDE THE FOLLOWING PERFORMANCE GUARANTEES: - THAT ALL COMPONENTS WILL HAVE ADEQUATE SIZE. CAPACITY AND PERFORMANCE. - THE INSTALLATION WILL BE ACCEPTABLE TO THE QUEENSLAND FIRE AND EMERGENCY
- THE INSTALLATION WILL NOT BE SUBJECT TO FAULTY EQUIPMENT OR WORKMANSHIP.
- THE INSTALLATION WILL NOT BE SUBJECT TO UNDUE FALSE ALARMS. - THE INSTALLATION WILL BE CONSIDERED FIT FOR PURPOSE.

ABBREVIATIONS

- A AMP CURRENT RATING AB - MOUNT ABOVE BENCH. AFFL - ABOVE FINISHED FLOOR LEVEL.
- MOUNT BELOW BENCH. MOUNT ON BULKHEAD. CEIL - MOUNT ON CEILING.
- CS MOUNT WITHIN CEILING SPACE. C/W - COMPLETE WITH.
- MINIATURE CIRCUIT BREAKER. MCCB - MOULDED CASE CIRCUIT BREAKER.
- MSB MAIN SWITCHBOARD. NTS - NOT TO SCALE. RCBO - CIRCUIT C/W INTEGRAL 30mA RESIDUAL CURRENT DEVICE INTEGRAL TO THE
- CIRCUIT BREAKER. REF - REFRIGERATOR. UNO - UNLESS NOTED OTHERWISE.

CONSULTANTS

GOLD COAST

- WEATHERPROOF TO IP56 UNO. 500 - NUMBER DENOTES MOUNTING HEIGHT AFFL.

GEEBUNG RSL

DRAWING **ELECTRICAL SERVICES LEGEND & NOTES**

H | CONSTRUCTION

REV: DESCRIPTION:

LEGEND

HLO1: PENDANT HEAT LAMPS.

EVACUATION FITTING.

EVACUATION FITTING.

E3: NOT USED

LUMINAIRE.

HLO2: JOINERY MOUNTED HEAT LAMPS.

E1: WHITE RECESSED NON-MAINTAINED EMERGENCY

E4: WEATHER PROOF EMERGENCY MAINTAINED EXIT

Lx: LIGHT FITTING C/W NON-MAINTAINED EMERGENCY

L1: GENERAL AREA NON DIMMED RECESSED DOWNLIGHT.

E5: EMERGENCY MAINTAINED EXIT LUMINAIRE.

BATTERY PACK. TYPE AS NOTED.

L2: RECESSED DIMMED DOWNLIGHT.

L3: RECESSED DIMMED DOWNLIGHT.

L4: DECORATIVE DIMMED PENDANT.

L5: DECORATIVE DIMMED PENDANT.

L10: NO LONGER REQUIRED.

L12: DIMMED INGROUND UPLIGHT.

L13: DIMMED INGROUND UPLIGHT.

L14: POLE MOUNTED FOOTPATH LIGHT.

L15: DIMMED GARDEN STAKE LIGHT.

L11: NOT USED.

L6: DECORATIVE NON DIMMED PENDANT.

L7: SURFACE MOUNTED DIMMED CAN DOWNLIGHT.

L9: SURFACE MOUNTED DIMMED CAN DOWNLIGHT.

L8: COLUMN MOUNTED EXTERNAL DIMMED UP DOWN LIGHT.

L16: TAB BAR COUNTER NON DIMMED DECORATIVE PENDANT.

L17: REPLACEMENT POOL TABLE PENDANT LIGHT.

WLO1: DINING DECORATIVE NON DIMMED WALL LIGHT.

WLO3: DECORATIVE NON DIMMED WALL LIGHT.

BAR COUNTER LED STRIP LIGHT.

AMENITY MIRROR LED STRIP LIGHT.

DINING COFFER LED STRIP LIGHT.

S1: ENTRY COFFER SURFACE LED STRIP LIGHT.

WLO2: DINING DECORATIVE NON DIMMED COLUMN LIGHT.

REAR BAR DISPLAY MULTIPLE LED STRIP LIGHTS.

WALL FEATURE MULTIPLE LED STRIP LIGHTS.

L18: 1250 LUMEN RECESSED DOWNLIGHT.

L19: ETERNAL FLAME.

L20: RECESSED DOWNLIGHT.

E2: WHITE SURFACE MOUNTED NON-MAINTAINED EMERGENCY

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