NOTES

1. EXTENT OF WORKS

THE ELECTRICAL SERVICES WORKS INCLUDES THE PROVISION OF A SECOND ENERGEX PADMOUNT SUBSTATION, A SECOND MAIN SWITCHBOARD, A SECOND MDB AND ASSOCIATED CABLING. THE SECOND ENERGEX PADMOUNT SUBSTATION IS TO BE PROVIDED AS A DESIGN AND CONSTRUCT LARGE CONNECTED CUSTOMER PACKAGE WITHIN THE ELECTRICAL SERVICES SUB CONTRACT.

THE WORKS IS TO INCLUDE THOUGH ARE NOT LIMITED TO THE FOLLOWING:
- SUPPLY AND INSTALLATION OF ALL COMPONENTS FORMING PART OF THE ELECTRICAL SERVICES.
- INSPECTIONS.
- TESTING AND COMMISSIONING.
- MAINTENANCE.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- POWER DISTRIBUTION.
- SHOP DRAWINGS.
- AS CONSTRUCTED DOCUMENTS.
- LARGE CONNECTED CUSTOMER DESIGN AND CONSTRUCT SECOND ENERGEX PADMOUNT SUBSTATION FUSED AT 1,260 AMPS.
- SECOND MAIN SWITCHBOARD / METER PANEL.
- SECOND UNDERGROUND CONSUMERS MAINS.
- SUBMAINS.
- PIT AND CONDUITS.
- CIVIL, STRUCTURAL AND BUILDING WORKS ASSOCIATED WITH THE ELECTRICAL SERVICES INSTALLATION.
- VACUUM EXCAVATION.
- REMOVAL OF THE EXISTING ELECTRICAL SERVICES THAT BECOME REDUNDANT.
- NEGOTIATION AND COORDINATION WITH ENERGEX , THE CLUB AND THE CLUBS ELECTRICITY RETAILER FOR THE UPGRADED SUPPLY AND METERING.
- TEMPORARY WORKS.
- SWITCHBOARDS.
- CIRCUITS AND OUTLETS.
- LIGHTING.
- FIRE ALARM SERVICES.
- COMMUNICATIONS SERVICES.
- ANY TEMPORARY WORKS REQUIRED TO KEEP THE CLUB OPERATING DURING THE CONSTRUCTION PROCESS AND ACCOMMODATE STAGING OF THE WORKS TO REFLECT THE EXECUTION OF THE MAIN CONTRACT WORKS.
- 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.

PRIOR TO COMMENCING WORK CONSULT SITE MANAGEMENT FOR ANY HAZARDOUS MATERIAL AND OR ASBESTOS REGISTERS AS WELL AS UNDERTAKE A THOROUGH INSPECTION OF THE SITE TO IDENTIFY ANY POTENTIAL HAZARDOUS MATERIALS, ASBESTOS AND HEALTH OR SAFETY RISKS. ADVISE THE CONTRACTOR OF ANY POTENTIAL HAZARDOUS MATERIALS, ASBESTOS AND HEALTH OR SAFETY RISKS IF IDENTIFIED AND DO NOT COMMENCE WORK UNTIL AN APPROPRIATE MANAGEMENT PLAN HAS BEEN DEVELOPED AND AGREED TO BY ALL PARTIES.

IDENTIFY ALL EXISTING UNDERGROUND SERVICES WITHIN THE SCOPE OF THE WORKS PRIOR TO UNDERTAKING ANY EXCAVATION. 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.

ALL WALL OUTLETS, WALL SWITCH PANELS AND CEILING FIXTURES MOUNTED ON WALLS WITH A DARK FINISH ARE TO BE PROVIDED AS BLACK.

2. WORKMANSHIP

ENSURE THAT THE ELECTRICAL WORK IS PERFORMED BY THE HOLDER OF A CURRENT ELECTRICAL SUB CONTRACTOR LICENSE AND THE SERVICES COVERED BY THE ACMA IS PERFORMED BY THE HOLDER OF THE APPROPRIATE CURRENT ACMA 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. 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 DEPARTMENT.

NOTES

4. 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.
- ENERGEX REQUIREMENTS.
- THE QUEENSLAND ELECTRICITY CONNECTION MANUAL V4 (QECM).
- NATIONAL METERING INSTALLATION REGULATIONS (NMIR).
- AS/NZS3000.
- AS3008.
- WORKPLACE HEALTH AND SAFETY ACT.
- TELECOMMUNICATIONS ACT.
- ACMA REQUIREMENTS.
- QUEENSLAND FIRE DEPARTMENT.
- AS1670. 1 2025.

5. POWER DISTRIBUTION

THE POWER DISTRIBUTION WORKS ARE TO INCLUDE THOUGH NOT BE LIMITED TO THE FOLLOWING:

- ALL SWITCHGEAR TO BE OF THE SAME MANUFACTURER AS THE EXISTING MDB-1.
- PROVIDE A NEW MSB METER PANEL ADJACENT THE EXISTING MSB THAT MATCHES THE EXISTING IN ALL ASPECTS OF APPEARANCE
- PROVIDE A NEW 1,000 KVA ENERGEX PADMOUNT SUBSTATION AS PART OF A LARGE CONNECTED CUSTOMER DESIGN AND CONSTRUCT PACKAGE UNDER THE ELECTRICAL SUB CONTRACT.
- INCLUDE ALL ENEREGX APPLICATIONS ASSOCIATED WITH THE LARGE CONNECTED CUSTOMER DESIGN AND CONSTRUCT PACKAGE. THE ENERGEX COSTS ASSOCIATED WITH THE LARGE CONNECTED CUSTOMER DESIGN AND CONSTRUCT PACKAGE ARE TO BE PASSED ONTO THE CLUB FOR PAYMENT BY THE CLUB.
- PROVIDE A NEW MDB INCORPORATING A GENERATOR TRANSFER SYSTEM THAT MATCHES THE SYSTEM IN THE EXISTING MDB-1. CONNECT THE NEW GENERATOR TO THE NEW MDB-2 VIA THE EXPANSION FACILITY IN MDB-1.
- PROVIDE NEW SUBMAINS FROM THE NEW MSB METER PANEL TO THE NEW MDB-2.
- PROVIDE SUBMAIN FROM THE MDB-2 TO THE NEW DISTRIBUTION BOARDS, THE NEW ROOF MOUNTED MSSB-4 AND THE NEW DOME SWITCHBOARD.
- NEW DISTRIBUTION BOARDS DB-5, DB-6, DB-7 AND DB-8.
- PROVIDE A NEW MCCB IN THE EXISTING MDB-1 AND A FIRE RATED SUBMAIN TO THE NEW LIFT. - PROVIDE ALL NECESSARY CIRCUITS AND OUTLETS.

THE SUPPLY TO THE CLUB MUST BE MAINTAINED AT ALL TIMES FROM 9.00AM UNTIL 4.30AM. ANY INTERRUPTION TO ANY POWER SUPPLY MUST BE LIMITED BETWEEN 4.30AM AND 9.00AM WITH THE CLUB NOTIFIED IN WRITING 2 WEEK PRIOR. ENSURE ALL THREE PHASE CIRCUITS ARE PROVIDED WITH CORRECT PHASE ROTATION.

ENSURE ALL OUTLETS AND ISOLATORS ARE POSITIONED SUCH THAT THEY ARE NOT COVERED BY THE EQUIPMENT.

6. SWITCHBOARDS

PROVIDE THE NEW SECOND SITE MSB / METER PANEL AS / WITH:
- SHOP DRAWINGS FOR APPROVAL.
- PLINTH MOUNTED.
- 316 STAINLESS STEEL.
- LIGHT GREY ENCLOSURE.
- WHITE ESCUTCHEONS WITH LIFT OFF HINGES AND 1/4 TURN LATCHES TO SECURE THE ESCUTCHEON THAT REMAIN PART OF THE ESCUTCHEON.
- DOORS ON ALL CUBICLES.
- IP66.
- BOTTOM ENTRY ONLY. THE TOP OF THE SWITCHBOARD IS TO BE WELDED SEALED WITHOUT ANY PENETRATIONS.
- SUN / RAIN HOOD.
- DESIGN THE SWITCHBOARD TO OPERATE IN 40 DEG AMBIENT IN DIRECT SUMMER SUNLIGHT.
- ENERGEX PADLOCK ON THE METER CUBICAL.
- TWO ENERGEX PADLOCK KEYS AND TWO 92268 KEYS.
- FORM 3B
- ENSURE ALL CABLE CONNECTIONS CAN BE THERMALLY SCANNED WITHOUT ISOLATING THE POWER.
- EACH CUBICAL CONTAINING SWITCHGEAR IS TO CONTAIN AN AUTOMATIC TEMPERATURE CONTROLLED ANTI CONDENSATION HEATER.
- RETAIL METERING.
- 600 WIDE X 900 HIGH EMPTY COMPARTMENT WITH A REMOVABLE WHITE MOUNTING PAN FOR USE BY THE SOLAR INSTALLER.

PROVIDE THE NEW MDB-2 AS / WITH:
- SHOP DRAWINGS FOR APPROVAL.
- PLINTH MOUNTED.
- MILD STEEL.
- LIGHT GREY ENCLOSURE.
- WHITE ESCUTCHEONS WITH LIFT OFF HINGES AND 1/4 TURN LATCHES TO SECURE THE ESCUTCHEON THAT REMAIN PART OF THE ESCUTCHEON.
- DOORS ARE NOT REQUIRED.
- IP42.
- BOTTOM ENTRY ONLY. THE TOP OF THE SWITCHBOARD IS TO BE WELDED SEALED WITHOUT ANY PENETRATIONS.
- FORM AS PER THE SCHEMATIC
- ENSURE ALL CABLE CONNECTIONS CAN BE THERMALLY SCANNED WITHOUT ISOLATING THE POWER.
- EACH CUBICAL CONTAINING SWITCHGEAR IS TO CONTAIN AN AUTOMATIC TEMPERATURE CONTROLLED ANTI CONDENSATION HEATER.
- GENERATOR CHANGE OVER AS PER THE EXITING SYSTEM IN MDB-1. THE GENERATOR CHANGE OVER CONTROL IS TO BE CONFIGURED AS PER THE EXISTING GENERATOR CONTROL SYSTEM IN MDB-1 AND IS TO BE CONFIGURED TO OPERATE IN ANY SUPPLY AVAILABILITY CONFIGURATION WITH THE EXISTING GENERATOR CONTROL SYSTEM IN MDB-1.
- ALL COMPONENTS ARE TO BE LABELLED WITH NON-STICK LABELS.

PROVIDE DISTRIBUTION BOARDS DB-5, DB-6, DB-7 AND DB-8 AS FOLLOWS:
- WALL MOUNTED.
- IP44 FORM 2bi.
- LIGHT GREY ENCLOSURE WHITE ESCUTCHEON.
- 3 POINT LOCKABLE HANDLES ON ALL DOORS WITH 92268 KEYING.
- LIFT OFF HINGES ON ALL DOORS AND ESCUTCHEONS.
- 1/4 TURN LATCHES AND D HANDLES ON ALL ESCUTCHEONS.
- PROVIDE SHOP DRAWINGS FOR APPROVAL.
- ALL COMPONENTS ARE TO BE LABELLED WITH NON-STICK LABELS.
- REFER TO THE DISTRIBUTION BOARD SCHEDULES FOR ADDITIONAL REQUIREMENTS.

NOTES

7. CABLE ACCESS

PROVIDE ALL CABLE ACCESS NECESSARY TO COMPLETE THE ELECTRICAL INSTALLATION INCLUDING THOUGH NOT LIMITED TO:
- UNDERGROUND PITS AND CONDUITS.
- CABLE TRAYS AND CABLE LADDERS.
- MODIFY AND EXPAND THE EXISTING ENERGEX PADMOUNT SUBSTATION CONCRETE AS PART OF THE LCC WORKS.

PROVIDE ALL CONDUITS ENTERING A PIT WITH BELL MOUTHS OR CUT THE CONDUITS OFF FLUSH WITH THE PIT WALL AND FILE THE CONDUIT EDGES SUCH THAT THEY ARE ROUNDED WITH NO SHARP EDGES OR BURRS.

8. LIGHTING

EXPAND THE EXISTING PHILIPS DYNALITE LIGHTING CONTROL SYSTEM THROUGH THE PROPOSED WORKS. ALL LIGHT FITTINGS AND ACCESSORIES TO COMPLETE THE LIGHTING INSTALLATION ARE TO BE PROVIDED AS PART OF THE LIGHTING INSTALLATION.

PROVIDE A PHILIPS DYNALITE LIGHTING CONTROL SYSTEM TO CONTROL THE LIGHTING CONFIGURED WITH THE FOLLOWING SCENES:

SET THE ILLUMINATION LEVELS SCENES AND TIMING IN CONSULTATION WITH THE VENUE MANAGER AND OBTAIN WRITTEN APPROVAL FROM THE VENUE MANAGER OF THEIR ACCEPTANCE OF THE ILLUMINATION SCENE LEVELS FOR EACH STAGED HANDOVER AND SUBMIT A COPY OF THE APPROVAL TO THE ARCHITECT. ALLOW TO ATTEND SITE AND ADJUST THE LIGHTING CONTROL AS DIRECTED BY THE VENUE MANAGER THREE ADDITIONAL TIMES DURING THE DEFECTS AND LIABILITY PERIOD.

THE LIGHTING COMPONENT OF THE ELECTRICAL SERVICES SUB-CONTRACT INCLUDES ALL OF THE INTERNAL AND EXTERNAL LIGHT FITTINGS, LAMPS AND ACCESSORIES. PROVIDE ALL NECESSARY ACCESSORIES TO FACILITATE THE COMPLETE LIGHTING INSTALLATION. THE LIGHTING COMPONENT OF THE ELECTRICAL SERVICES SUB-CONTRACT INCLUDES THOUGH IT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:
- INTERNAL AND EXTERNAL LIGHT FITTINGS.
- EMERGENCY AND EXIT LIGHTING.
- EARTHING OF THE LIGHTING INSTALLATION.
- LIGHTING CONTROL.
- LIGHTING SUBCIRCUITS.
- TESTING AND COMMISSIONING.
- CARPARK LIGHTING POLES AND FOOTINGS TO MATCH THE EXISTING USED IN THE RECENTLY COMPLETED CARPARK PROJECT.

9. EMERGENCY AND EXIT LIGHTING

PROVIDE A SINGLE POINT EMERGENCY LIGHTING SYSTEM THAT COMPLIES 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.

10.0 COMMUNICATIONS CABLING

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF TWO NEW COMMUNICATIONS RACKS CR-6 AND CR-7 AS WELL AS THE MODIFICATION OF THE EXISTING COMMUNICATIONS RACKS TO ACCOMMODATE THE OUTLETS WITHIN BASEMENT KIDS AREA AND GAMING ROOMS.

PROVIDE THE NEW COMMUNICATIONS RACKS WITH A 12 CORE OS1 FIBRE CABLE FULLY TERMINATED WITH LC TERMINATIONS FROM A NEW FOBOT IN THE EXISTING BASEMENT SERVER RACK. CONFIRM THE POSITION OF THE SERVER FOBOT WITH THE CLUBS IT STAFF.

PROVIDE THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT AS A COMMSCOPE OR MOLEX CAT 6 INSTALLATION WITH A 15 YEAR MANUFACTURERS PERFORMANCE WARRANTY.

THE GAMING CAT 6 OUTLET CABLING AND THE THE GAMING DUPLEX FIBRES ARE TO BE RUN TO PATCH PANELS WITHIN THE EXISTING MEZZANINE GAMING RACK CR-G. THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:
- COMMUNICATIONS RACKS.
- FIBRE CABLING AND FOBOTS.
- CAT 6 COMMUNICATIONS OUTLETS AND CABLING.
- CAT 6 GAMING OUTLETS AND CABLING.
- CAT 6 PATCH PANELS.
- INSTALLATION OF THE GAMING DUPLEX FIBRE.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

IN ADDITION TO THE COMMUNICATIONS OUTLETS SHOWN ON THE DRAWINGS ALLOW AN ADDITIONAL 24 COMMUNICATIONS OUTLETS WITH THE POSITIONS NOMINATED BY THE OPERATOR PRIOR TO ROUGHIN FOR WAPS, AUDIO CONTROLS ETC.

ALL ACTIVE EQUIPMENT, FLY LEADS AND PATCH LEADS WILL BE PROVIDED BY THE CLUB.

NOTES

11. DOCUMENTATION

WITHIN TWO WEEKS OF PRACTICAL COMPLETION PROVIDE THE FOLLOWING DOCUMENTATION.

AS CONSTRUCTED DRAWINGS INCLUDING:
- ELECTRICIANS NAME AND CONTACT DETAILS.
- PROJECT NAME, ADDRESS AND DATE OF PRACTICAL COMPLETION.
- FITTING POSITIONS AND TYPES CROSS REFERENCED TO A FITTING / EQUIPMENT SCHEDULE.
- OUTLET, SWITCH, AND CONNECTION POSITIONS CROSS REFERENCED TO A FITTING / EQUIPMENT SCHEDULE.
- REMOTE DRIVER LOCATIONS.
- CIRCUITS CROSS REFERENCED TO A DISTRIBUTION BOARD SCHEDULE.
- LIGHTING CONTROL CHANNELS CROSS REFERENCED TO A LIGHTING CONTROL SCHEDULE.
- POWER SCHEMATIC.
- SWITCHBOARD SHOP DRAWINGS.
- CABLE ACCESS ROUTES.

A FITTING / EQUIPMENT SCHEDULE INCLUDING.
- FITTING DETAILS INCLUDING THE MANUFACTURERS CATALOGUE NUMBERS WITH THE TYPES CROSS REFERENCED TO THE AS CONSTRUCTED DRAWINGS.
- OUTLETS AND SWITCHES INCLUDING THE MANUFACTURERS CATALOGUE NUMBERS WITH THE TYPES CROSS REFERENCED TO THE AS CONSTRUCTED DRAWINGS.

DISTRIBUTION BOARD SCHEDULES CROSS REFERENCED TO THE AS CONSTRUCTED DRAWINGS.

LIGHTING CONTROL SCHEDULE CROSS REFERENCED TO THE AS CONSTRUCTED DRAWINGS.

PHOTOS OF EACH SWITCHBOARD INCLUDING:
- CLOSED POSITION SUCH THAT THE SWITCHBOARD DESIGNATION AND CLEARANCE IS VISIBLE.
- THE SUBMAIN LABEL.
- DOOR/S OPEN ESCUTCHEON/S CLOSED SUCH THAT THE SPARE CAPACITY AND LABELLING IS VISIBLE.
- DOOR/S OPEN ESCUTCHEON/S REMOVED SUCH THAT THE SWITCHGEAR AND INTERNAL CABLING IS VISIBLE.

12. ABBREVIATIONS

A	-	AMP CURRENT RATING
AB	-	MOUNT ABOVE BENCH.
AFFL	-	ABOVE FINISHED FLOOR LEVEL.
BB	-	MOUNT BELOW BENCH.
BH	-	MOUNT ON BULKHEAD.
CEIL	-	MOUNT ON CEILING.
CR	-	COMMUNICATIONS RACK.
CS	-	MOUNT WITHIN CEILING SPACE.
C/W	-	COMPLETE WITH.
DB	-	DISTRIBUTION BOARD.
DW	-	DISHWASHER.
MCB	-	MINIATURE CIRCUIT BREAKER.
MCCB	-	MOLDED CASE CIRCUIT BREAKER.
MDB	-	MAIN DISTRIBUTION BOARD.
MSB	-	MAIN SWITCHBOARD.
MSSB	-	MECHANICAL SERVICES SWITCHBOARD.
MW	-	MICROWAVE.
N	-	NEON / LED INDICATOR WHEN ON.
NTS	-	NOT TO SCALE.
RCBO	-	CIRCUIT BREAKER C/W AN INTEGRAL 30mA RESIDUAL CURRENT DEVICE.
RCD	-	CIRCUIT PROTECTED VIA A 30mA RESIDUAL CURRENT DEVICE.
REF	-	REFRIGERATOR.
UNO	-	UNLESS NOTED OTHERWISE.
WP	-	WEATHERPROOF TO IP56 UNO.
500	-	NUMBER DENOTES MOUNTING HEIGHT AFFL.

REV:	DESCRIPTION:	DATE:
C	CONSTRUCTION	16/09/2026

ELECTRICAL DESIGN GROUP BRISBANE
PTY LTD
ACN 092 710 793

TRADING AS:
ELECTRICAL DESIGN GROUP

THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE ELECTRICAL DESIGN GROUP.

USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.

ALL DIMENSIONS TO BE VERIFIED ONSITE.

ELECTRICAL DESIGN GROUP
ELECTRICAL BUILDING SERVICES CONSULTANTS
BRISBANE GOLD COAST

P.O.Box 15, Sherwood Q.4075
Phone: (07) 3278 4375
Email: brisbane@edg.net.au
Web: www.edg.net.au

PROJECT:
THE LION RICHLANDS - STAGE 2

133 PINE ROAD, RICHLANDS

DRAWING:
ELECTRICAL SERVICES
NOTES

SCALE: NOT TO SCALE AT A1

PROJECT NO:	DRAWING NO:	REVISION:
C3457a	E02	C