

## 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.
- INSPECTIONS.
- TESTING AND COMMISSIONING.
- MAINTENANCE.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- POWER DISTRIBUTION.
- LIGHTING.
- COMMUNICATIONS CABLING.
- FIRE DETECTION.
- 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.

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 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. 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.
- AS1670. 1.
- 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.

## NOTES

### 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 2.5mm<sup>2</sup> 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.

### 6. POWER DISTRIBUTION

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF A NEW DISTRIBUTION BOARD DB-SB SUPPLIED VIA NEW 4 CORE 35mm<sup>2</sup> Cu + 10mm<sup>2</sup> E XLPE SUBMAINS PROTECTED BY NEW 63 AMP THREE PHASE CIRCUIT BREAKER IN THE MSB. CONFIRM THE LOCATION AND UTILISE THE EXISTING CABLE ACCESS SYSTEM TO PROVIDE CABLE ACCESS FROM THE MSB TO THE EXISTING PIT 2. PROVIDE A NEW UNDERGROUND CONDUIT FROM PIT 2 TO THE NEW SCOREBOARD.

PROVIDE A 1.6MM MINIMUM 316 STAINLESS STEEL HAT SECTION AGAINST THE COLUMN FROM THE GROUND TO THE UNDERSIDE OF LEVEL 2 TO PROVIDE CABLE ACCESS FROM THE NEW UNDERGROUND CONDUIT TO DB-SB AND FROM DB-SB TO THE REMAINDER OF THE SCORE BOARD STRUCTURE.

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- MSB CIRCUIT BREAKER.
- UNDERGROUND CONDUIT.
- DISTRIBUTION BOARD DB-SB.
- SUBMAIN FROM THE MSB TO DB-SB.
- CABLE ACCESS WAYS.
- CIRCUITS.
- SCORE BOARD OUTLETS.
- TESTING AND COMMISSIONING.

PROVIDE DB-SB AS/WITH:

- SHOP DRAWINGS FOR APPROVAL.
- COLUMN 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.
- 92268 KEY LOCKABLE DOOR.
- FORM 1.
- 30 POLE 250 AMP VERTICAL DIN CHASSIS.
- 100 AMP LOAD BREAK NON-AUTO MAIN SWITCH.
- FULL WIDTH SPARE HORIZONTAL DIN RAIL.
- ENSURE ALL CABLE CONNECTIONS CAN BE THERMALLY SCANNED WITHOUT ISOLATING THE POWER.

IN ADDITION TO THE MAINTENANCE OUTLETS SHOWN PROVIDE EIGHT 20 AMP GPOS EACH ON A DEDICATED CIRCUIT DB-SB - P2 THROUGH TO DB-SB - P9. LOCATE THESE GPOS ON LEVEL 2 AS DIRECTED BY THE SCORE BOARD SUPPLIER.

PROVIDE CIRCUITS DB-SB - P1 THROUGH TO DB-SB -P9 AND DB-SB- L1 AS 2.5mm<sup>2</sup> SINGLE PHASE PROTECTED BY 20 AMP RCBO SUPPLIED FROM DB-SB.

IN ADDITION TO THE ABOVE POWER DISTRIBUTION WORKS FOR THE SCORE BOARD THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES NEW AND MODIFIED CIRCUITS WITHIN THE CLUB HOUSE BUILDING TO ACCOMMODATE THE WORKS WITHIN ZONES 1 THROUGH TO ZONE 5.

ANY INTERRUPTION TO THE POWER SUPPLY TO ANY SERVICES OUTSIDE OF THE AREA OF WORKS MUST BE RESTRICTED TO OUTSIDE OF THE CLUBS OPERATING HOURS AND MUST BE ADVISED TO THE OPERATOR IN WRITING TWO WEEKS PRIOR.

UPGRADE / MODIFY THE EXISTING DISTRIBUTION BOARDS DB-1, DB-2 AND DB-K AS NECESSARY TO ACCOMMODATE THE NEW BUILDING CIRCUITS. IT IS ACCEPTABLE TO UTILISE THE EXISTING CIRCUITS TO SUPPLY THE NEW WORKS IF THE EXISTING CIRCUITS HAVE APPROPRIATE CONTROL AND SPARE CAPACITY.

### 7. LIGHTING

ALL OF THE LIGHT FITTINGS AND ACCESSORIES ARE TO BE PROVIDED AS PART OF THIS CONTRACT. THE EXISTING DYNALITE LIGHTING CONTROL SYSTEM IS TO BE MODIFIED / UPGRADED TO CONTROL THE NEW LIGHTING WITHIN THE BUILDING. IT IS ACCEPTABLE TO UTILISE THE EXISTING CONTROLLERS TO SUPPLY THE NEW CHANNELS IF THE EXISTING CONTROLLER HAS APPROPRIATE SPARE CHANNELS.

THE LIGHTING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- LIGHTING.
- LIGHT FITTINGS AND ACCESSORIES.
- EARTHING OF THE LIGHTING INSTALLATION.
- LIGHTING SUBCIRCUITS.
- TESTING AND COMMISSIONING.
- EMERGENCY AND EXIST LIGHTING.
- MODIFICATION AND ADDITIONS TO THE CLUB HOUSES EXISTING DYNALITE LIGHTING CONTROL SYSTEM.

## NOTES

### 8. COMMUNICATIONS CABLING

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF NEW AND MODIFIED CAT 6 COMMUNICATIONS OUTLETS UTILISING THE EXISTING COMMUNICATIONS RACK. THE EXISTING COMMUNICATIONS RACK IS TO BE MODIFIED AND UPGRADED AS NECESSARY INCLUDING NEW PATCH PANELS IF REQUIRED TO ACCOMMODATE THE ADDITIONAL COMMUNICATIONS OUTLETS.

THE EXISTING COMMUNICATIONS RACK AND ADJACENT SECURITY EQUIPMENT AS WELL AS ALL ASSOCIATED CABLING AND POWER SUPPLIES LOCATED IN THE LOUNGE STORE ARE TO BE RELOCATED TO FACILITATE THE NEW LOUNGE BAR. THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- RELOCATION OF THE LOUNGE STORE COMMUNICATIONS RACK AND ADJACENT SECURITY EQUIPMENT.
- CAT 6 COMMUNICATIONS OUTLETS.
- CAT 6 CABLING.
- MODIFICATION AND UPGRADING AS NECESSARY OF THE EXISTING COMMUNICATIONS RACK.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

### 9. FIRE ALARM

THE FIRE ALARM SYSTEM COMPONENT OF THIS CONTRACT INCLUDES NEW AS1670.1 COMPLIANT DETECTION AND ALARM SERVICES THROUGHOUT THE AREA OF THE WORKS. THE EXISTING FIP IS TO BE RETAINED AND UPGRADED AS NECESSARY TO FACILITATE THE CHANGES AND ADDITIONS. REPLACE THE FIP ZONE INDICATION PLAN. ALL OF THE EXISTING SPEAKERS, DETECTORS, AND CABLING THAT BECOME REDUNDANT ARE TO BE REMOVED. ANY INTERRUPTION TO THE FIRE ALARM SYSTEM TO ANY SERVICES OUTSIDE OF THE AREA OF WORKS MUST BE RESTRICTED TO OUTSIDE OF THE CLUBS OPERATING HOURS AND MUST BE ADVISED TO THE OPERATOR IN WRITING TWO WEEKS PRIOR.

ALL EXISTING CONCEALED SPACE DETECTORS WITHIN THE SCOPE OF THE WORKS ARE TO BE REINSTATED.

PROVIDE A KITCHEN EXHAUST HOOD CONTROL SYSTEM THAT PROVIDES THE FOLLOWING:

- CONTROL THE GAS SUPPLY TO THE COOKING EQUIPMENT IN ACCORDANCE WITH ASS601 INCLUDING ISOLATING THE GAS SUPPLY WHEN THE KITCHEN EXHAUST FAN IS NOT RUNNING.
- CONTROLS THE OPERATION OF THE KITCHEN EXHAUST FAN INCLUDING SHUTTING DOWN THE FAN WHEN THE EXHAUST DUCT DETECTOR GOES INTO ALARM.
- ISOLATE THE GAS SUPPLY UPON OPERATION OF THE FIRE ALARM SYSTEM.

PROVIDE A PRE ASSEMBLE GAS VALVE ASSEMBLY TO THE GAS SUB-CONTRACTOR TO INSTALL.

THE FIRE ALARM SYSTEM COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- UPGRADING THE EXISTING FIP.
- RELOCATE THE EXTERNAL VISUAL INDICATOR.
- DETECTORS AND SPEAKERS.
- CABLE ACCESS WAYS.
- CABLING.
- TESTING AND COMMISSIONING.
- REMOVAL OF ALL EXISTING REDUNDANT SERVICES.
- RECONNECTION OF ALL EXISTING SERVICES THAT REMAIN.
- KITCHEN EXHAUST HOOD CONTROL SYSTEM.

### 10. 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.
- CS - MOUNT WITHIN CEILING SPACE.
- C/W - COMPLETE WITH.
- DW - DISHWASHER.
- HP - HOT PLATE.
- MCB - MINIATURE CIRCUIT BREAKER.
- MSB - MAIN SWITCHBOARD.
- MSSB - MECHANICAL SERVICES SWITCHBOARD.
- MW - MICROWAVE.
- N - NEON / LED INDICATOR WHEN ON.
- NTS - NOT TO SCALE.
- OV - OVEN.
- QDC - QUEENSLAND DEVELOPMENT CODE.
- 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.

D	CONSTRUCTION	20/05/2024
REV:	DESCRIPTION:	DATE:

DRAWING:  
**ELECTRICAL SERVICES  
NOTES**

SCALE:  
NOT TO SCALE AT A1

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