## 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 ALARM SYSTEM.
- BACKGROUND MUSIC.
- INTRUDER DETECTION. 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.

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.

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TRADING AS:	USE FIGURED DIMENSIONS
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	ALL DIMENSIONS TO BE VERIFIED ONSITE.

## NOTES

5. CABLES

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES (THE SCOPE OF THE UNLESS OTHERWISE SPECIFIED, INSTALL AND TERMINATE CABLES IN ACCORDANCE WITH THE COMMUNICATIONS CABLING IS YET TO BE RESOLVED). MANUFACTURERS' RECOMMENDATIONS. DETERMINE THE FINAL ROUTES TO SUIT THE BUILDING STRUCTURE AND SITE CONDITIONS. UNLESS NOTED OTHERWISE, PROVIDE ALL 240 VOLT POWER ANY INTERRUPTION TO THE VENUES COMMUNICATIONS SERVICES OUTSIDE OF THE AREA OF WORK AND LIGHTING WIRING AS 2.5mm<sup>2</sup> TWIN & EARTH STRANDED COPPER CONDUCTORS, PVC INSULATED MUST BE RESTRICTED TO OUTSIDE OF THE VENUES OPERATING HOURS AND MUST BE ADVISED TO 0.6/1kV V75 GRADE TO AS3174, PROTECTED BY A 20 AMP CIRCUIT BREAKER. ALL CONDUIT OPERATOR IN WRITING TWO WEEKS PRIOR. AND FITTINGS TO BE RIGID UPVC TO AS2053, UNLESS NOTED OTHERWISE.

6. POWER DISTRIBUTION

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES (THE FINAL SCOPE IS YET TO BE RESOLVED).

REMOVED.

ANY INTERRUPTION TO THE POWER SUPPLY TO ANY SERVICES OUTSIDE OF THE AREA OF WORKS MUST BE RESTRICTED TO OUTSIDE OF THE VENUES OPERATING HOURS AND 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.

- SWITCHBOARDS.
- SUBMAINS.
- CABLE ACCESS WAYS. - CIRCUITS.
- ISOLATORS AND OUTLETS.
- FLOOR BOXES.
- TESTING AND COMMISSIONING. - REMOVAL OF ALL EXISTING REDUNDANT SERVICES. - RECONNECTION OF ALL EXISTING SERVICES THAT REMAIN.

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

7. LIGHTING

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.
- EMERGENCY AND EXIT LIGHTING.
- EARTHING OF THE LIGHTING INSTALLATION
- LIGHTING CONTROL.
- LIGHTING SUBCIRCUITS.
- TESTING AND COMMISSIONING. - RECONNECTION OF THE EXISTING LIGHTING THAT REMAINS.
- REMOVAL OF ALL EXISTING REDUNDANT LIGHTING SERVICES.

PROVIDE A SINGLE POINT EMERGENCY LIGHTING SYSTEM THAT COMPLIES WITH THE LATEST TESTING AND COMMISSIONING. ISSUE OF ALL PARTS AS2293 AND THE RELEVANT PARTS OF THE NCC BCA. INSTALL - REMOVAL OF ALL EXISTING REDUNDANT SERVICES. EMERGENCY LIGHT FITTINGS NOMINATED AS MAINTAINED WITH THE LAMP PERMANENTLY ON SUPPLIED VIA AN UNSWITCHED ACTIVE MAINS SUPPLY WHEN THE MAINS SUPPLY IS AVAILABLE. PROVIDE A SWITCH ON SP1 TO CONTROL THE POWER SUPPLY TO THE AMPLIFIER TO FACILITATE THE WHEN THE MAINS SUPPLY IS NOT AVAILABLE, THE LAMP IS TO REMAIN ON SUPPLIED BY THE AMPLIFIER BEING TURNED OFF AFTER HOURS. EMERGENCY PACK. SINGLE LAMP MAINTAINED EMERGENCY LIGHTS ARE NOT SWITCHED WITH THE LOCAL GENERAL AREA LIGHTING. (THE LAMP IS ALWAYS ON.) REMOVE ALL OF THE EXISTING WALL MOUNTED VOLUME CONTROLLERS.

INSTALL EMERGENCY LIGHT FITTINGS NOMINATED AS NON-MAINTAINED AS FOLLOWS: THE OPERATOR WILL PROVIDE THE AUDIO SOURCE. - 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 11. INTRUDER DETECTION 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 THE INTRUDER DETECTION COMPONENT OF THIS CONTRACT INCLUDES REPLACING THE ENTIRE IS ON ONLY WHEN THE MAINS SUPPLY IS NOT AVAILABLE. ) EXISTING INTRUDER DETECTION SYSTEM WITH A NEW REMOTELY MONITORED INNER RANGE INTEGRITY - IF THE FITTING IS BEING SWITCHED, THE LAMP IS TO BE SUPPLIED AND CONTROLLED WITH INTRUDER DETECTION SYSTEM WITH ALL NEW DETECTORS. THE LOCAL GENERAL AREA LIGHTING WHEN THE MAINS SUPPLY IS AVAILABLE. WHEN THE THE INTRUDER DETECTION COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE MAINS SUPPLY IS NOT AVAILABLE THE LAMP IS TO BE SWITCHED ON, SUPPLIED BY THE FOLLOWING EXTENT OF WORK: EMERGENCY PACK. (THE LAMP IS ON WHEN TURNED ON WITH THE LOCAL GENERAL LIGHTING OR - NEW INNER RANGE INTEGRITY INTRUDER DETECTION SYSTEM C/W INTEGRAL BATTERY BACKUP AND REMOTE MONITORING. 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.

ALL OF THE EXISTING CIRCUITS, CABLING AND OUTLETS THAT BECOME REDUNDANT ARE TO BE

### NOTES

8. COMMUNICATIONS CABLING

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED THE FOLLOWING EXTENT OF WORK:

- PATCH PANELS AS NECESSARY. - CAT 6 COMMUNICATIONS OUTLETS AND CABLING.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING. - REMOVAL OF ALL EXISTING COMMUNICATIONS CABLING MADE REDUNDANT BY THE WORKS.
- 9. FIRE ALARM SYSTEM

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

THE EXISTING CONCEALED SPACE DETECTORS WITHIN THE AREA OF THE WORKS ARE TO BE RETAINED AND PROVIDED WITH NEW REMOTE INDICATORS AND ACCESS AS PER AS1670. 1.

THE FIRE ALARM SYSTEM COMPONENT OF THIS CONTRACT INCLUDES. BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK: - UPGRADING THE EXISTING FIP.

- DETECTORS AND SPEAKERS.
- CABLE ACCESS WAYS.
- CABLING.
- TESTING AND COMMISSIONING. - REMOVAL OF ALL EXISTING REDUNDANT SERVICES

- RECONNECTION OF ALL EXISTING SERVICES THAT REMAIN

10. BACKGROUND MUSIC

THE BACKGROUND MUSIC COMPONENT OF THIS CONTRACT INCLUDES REPLACING THE ENTIRE EXISTING BACKGROUND MUSIC SYSTEM WITH A NEW BACKGROUND MUSIC SYSTEM WITH ALL NEW SPEAKERS. PROVIDE A NEW AMPLIFIER WITHIN THE COMMUNICATIONS RACK TO SUPPLY THE SPEAKERS.

THE BACKGROUND MUSIC COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK: - AMPLIFIER. - 100 VOLT MULTI TAP SPEAKERS.

- CABLE ACCESS WAYS.
- CABLING.
- BALANCING

- DETECTORS.
- ARMING / DISARMING KEY PAD. - PIZEO SIREN.
- CABLE ACCESS WAYS.
- CABLING.
- TESTING AND COMMISSIONING. REMOVAL OF ALL EXISTING REDUNDANT SERVICES.

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# NOTES

	11.	ABBREVIATIONS	
KS D THE	AB AFFL BB	<ul> <li>AMP CURRENT RATING</li> <li>MOUNT ABOVE BENCH.</li> <li>ABOVE FINISHED FLOOR LEVEL.</li> <li>MOUNT BELOW BENCH.</li> <li>MOUNT ON BULKHEAD.</li> </ul>	
) TO	CS	<ul> <li>MOUNT ON CEILING.</li> <li>MOUNT WITHIN CEILING SPACE.</li> </ul>	
5 10	DŴ	<ul> <li>COMPLETE WITH.</li> <li>DISHWASHER.</li> <li>HOT PLATE.</li> </ul>	
	MCB	<ul> <li>MINIATURE CIRCUIT BREAKER.</li> <li>MAIN SWITCHBOARD.</li> </ul>	
	MW	<ul> <li>MECHANICAL SERVICES SWITCHBOARD.</li> <li>MICROWAVE.</li> </ul>	
	NTS	<ul> <li>NEON / LED INDICATOR WHEN ON.</li> <li>NOT TO SCALE.</li> <li>OVEN.</li> </ul>	
F I RE THE	QDC RCB0	<ul> <li>QUEENSLAND DEVELOPMENT CODE.</li> <li>CIRCUIT BREAKER C/W AN INTEGRAL 30mA RESIDUAL CURRENT DEVICE.</li> </ul>	
S AND	REF	<ul> <li>CIRCUIT PROTECTED VIA A 30mA RESIDUAL CURRENT DEVICE.</li> <li>REFRIGERATOR.</li> <li>UNLESS NOTED OTHERWISE.</li> </ul>	
TO CTED RITING	WP	<ul> <li>WEATHERPROOF TO IP56 UNO.</li> <li>NUMBER DENOTES MOUNTING HEIGHT AFFL.</li> </ul>	

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scale: NOT	TO SCALE AT A1	PROJECT NO: <b>C3142a</b>	DRAWING NO:						