

**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.  
 - AS CONSTRUCTED DOCUMENTS.  
 - NEGOTIATION AND COORDINATION WITH THE GENERATOR SUPPLIER.  
 - NEGOTIATION AND COORDINATION WITH ENERGEX FOR THE INSTALLATION OF THE NEW PADMOUNT SUBSTATION AND METERING.  
 - NEGOTIATION AND COORDINATION WITH THE AUSTRALIAN PROJECT ELECTRICIAN.  
 - TEMPORARY 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.

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.  
 - ENERGEX REQUIREMENTS.  
 - THE QUEENSLAND ELECTRICITY CONNECTION MANUAL (QECM) AND QUEENSLAND ELECTRICITY METERING MANUAL (QEMM)  
 - AS/NZS3000.  
 - AS3008.  
 - 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 A TWO STAGE INSTALLATION.

STAGE 1 - INTENT  
 THE INSTALLATION IS TO BE ARRANGED TO UTILISE THE EXISTING ENERGEX SUPPLY TO DB-S TO SUPPLY THE SITE WITH THE GENERATOR BEING USED AS A BACK UP TO MEET ANY DEMAND SHORTFALLS UNTIL THE NEW ENERGEX PADMOUNT SUBSTATION BECOMES OPERATIONAL.

STAGE 1 - WORKS  
 THE EXISTING DISTRIBUTION BOARD DB-WB IS TO BE DISCONNECTED FROM DB-S AND SUPPLIED FROM THE NEW MSB. THE EXISTING DISTRIBUTION BOARD DB-RT IS TO BE DISCONNECTED FROM DB-S AND SUPPLIED FROM THE NEW MSB SUPPLIED DISTRIBUTION BOARD DB-M. THE EXISTING ENERGEX SUPPLY TO DB-S IS TO BE UTILISED TO TEMPORARILY SUPPLY DB-A, DB-B, DB-M AND DB-CW VIA THE NEW MSB. THE TEMPORARY SUPPLY FROM DB-S TO THE NEW MSB AND THE GENERATOR SUPPLY ARE TO BE PROVIDED WITH DEMAND MONITORING SUCH THAT WHEN THE DEMAND REACHES 150 AMPS FOR MORE THAN 30 SECONDS THE GENERATOR STARTS AND SUPPLIES THE LOAD UNTIL THE DEMAND HAS FALLEN BELOW 100 AMPS FOR MORE THAN 30 MINUTES AT WHICH TIME THE LOAD IS TO BE SWITCHED BACK TO THE DB-S SUPPLY. THE SUPPLY AND INSTALLATION OF THE DB-A, DB-B AND DB-CW SUBMAINS INTO THE NEW MSB WILL BE BY OTHERS BEING THE AUSTRALIAN PROJECT ELECTRICIAN. DURING STAGE 1 THE NEW MSB MEN LINK AND RETAIL METERS ARE TO BE DISCONNECTED / NOT INSTALLED. THE NEW MSB IS TO CONTAIN THE FACILITY AND ALL NECESSARY APPROVALS SUCH THAT THE MEN LINK AND RETAIL METERING CAN BE SIMPLY INSTALLED / CONNECTED IN STAGE 2.

STAGE 2 - INTENT  
 ONCE THE ENERGEX PADMOUNT SUBSTATION BECOMES OPERATIONAL THE EXISTING SERVICE TO DB-S FROM THE HIGHWAY MSB IS TO BE REMOVED AND THE SITE IS TO BE SUPPLIED FROM THE NEW ENERGEX PADMOUNT SUBSTATION VIA THE NEW MSB.

STAGE 2 - WORKS  
 CONNECT THE NEW MSB TO THE NEW ENERGEX PADMOUNT SUBSTATION. PROVIDE / CONNECT THE NEW MSB WITH A MEN LINK AND RETAIL METERING. REMOVE THE DEMAND MONITORING CONTROL OF THE GENERATOR AND REPLACE IT WITH CONVENTIONAL PHASE FAILURE CONTROL. REMOVE THE EXISTING SERVICE TO DB-S FROM THE HIGHWAY MSB. ADJUST THE CONNECTION OF THE CABLING BETWEEN DB-S TO THE NEW MSB SUCH THAT DB-S IS FEED FROM THE NEW MSB. THE EXISTING HIGHWAY MSB IS TO REMAIN AS IT IS ON A SEPARATE TITLE TO THE SITE AND SUPPLIES A REMOTE PUMPING STATION.

CONFIGURE THE STAGE 2 GENERATOR CONTROL SYSTEM AND MSB CHANGE OVER FACILITY TO THE FOLLOWING OPERATION:

- UPON SUPPLY AUTHORITY POWER FAILURE, THE GENERATOR CONTROL SYSTEM IS TO COMMENCE A 15 SECOND COUNTDOWN.
- ONCE THE SUPPLY POWER HAS NOT BEEN AVAILABLE FOR 15 SECONDS THE STANDBY GENERATOR IS TO AUTOMATICALLY START.
- TWENTY SECONDS AFTER STARTING THE STANDBY GENERATOR IS TO AUTOMATICALLY TAKE 100% OF THE STANDBY LOAD.
- ONCE THE SUPPLY AUTHORITY POWER HAS RETURNED UNINTERRUPTED FOR 5 MINUTES THE STANDBY LOAD IS TO AUTOMATICALLY BE RETURNED TO THE SUPPLY AUTHORITY SUPPLY. THE STANDBY GENERATOR IS TO CONTINUE RUNNING FOR A FURTHER 10 MINUTES BEFORE AUTOMATICALLY SHUTTING DOWN.

SHOULD THE SUPPLY AUTHORITY SUPPLY STATUS CHANGE DURING ANY OF THE TIMED DELAYS, THE TIMED DELAY IS TO RECOMMENCE. IF THE SUPPLY AUTHORITY SUPPLY RETURNS DURING THE INITIAL 30 TIMED DELAY (A) THE STANDBY GENERATOR IS TO START AND AUTOMATICALLY STEP INTO THE (D) 10 MINUTE RUN ON BEFORE AUTOMATICALLY SHUTTING DOWN. IF DURING THIS PERIOD THE SUPPLY AUTHORITY SUPPLY FAILS THE INITIAL (A) 30 COUNTDOWN IS TO RECOMMENCE.

ALL OF THE EXISTING ELECTRICAL SERVICES INCLUDING CIRCUITS, CABLING AND OUTLETS THAT BECOME REDUNDANT ARE TO BE REMOVED. ANY INTERRUPTION TO THE POWER SUPPLY TO ANY SERVICES OUTSIDE OF THE AREA OF WORKS MUST BE RESTRICTED TO OUTSIDE OF THE SANCTUARYS OPERATING HOURS AND MUST BE ADVISED TO THE OPERATOR IN WRITING TWO WEEKS PRIOR.

- REMOVAL OF ALL EXISTING REDUNDANT SERVICES.

PROVIDE THE NEW MSB 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.  
 - SWITCHBOARD DOORS ARE NOT REQUIRED.  
 - FORM 1  
 - 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.  
 - THE RETAIL METER IS TO BE A SEPARATE WALL MOUNTED PANEL WITH THE SAME SPECIFICATION AS THE MSB.

PROVIDE DB-M AS/WITH:  
 - SHOP DRAWINGS FOR APPROVAL.  
 - WALL 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 2a  
 - ENSURE ALL CABLE CONNECTIONS CAN BE THERMALLY SCANNED WITHOUT ISOLATING THE POWER.

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

**NOTES**

6. POWER DISTRIBUTION CONTINUED

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:  
 - POWER DISTRIBUTION.  
 - NEW ENERGEX PADMOUNT SUBSTATION.  
 - NEW RETAIL METERING.  
 - NEW MAIN SWITCHBOARD.  
 - TEMPORARY STAGE 1 SUPPLY CONFIGURATION.  
 - PERMANENT STAGE 2 SUPPLY CONFIGURATION.  
 - GENERATOR CONTROL.  
 - DISTRIBUTION BOARD DB-M.  
 - SUBMAIN FROM DB-S TO THE NEW MSB.  
 - REPLACE THE EXISTING SUPPLY / SUBMAIN TO DB-WB WITH A NEW SUPPLY / SUBMAIN FROM THE NEW MSB.  
 - UPDATE THE DB-S SCHEDULE AND LABELLING.  
 - CABLE ACCESS WAYS.  
 - CIRCUITS.  
 - ISOLATORS AND OUTLETS.  
 - TESTING AND COMMISSIONING.

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.

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.

8. ABBREVIATIONS

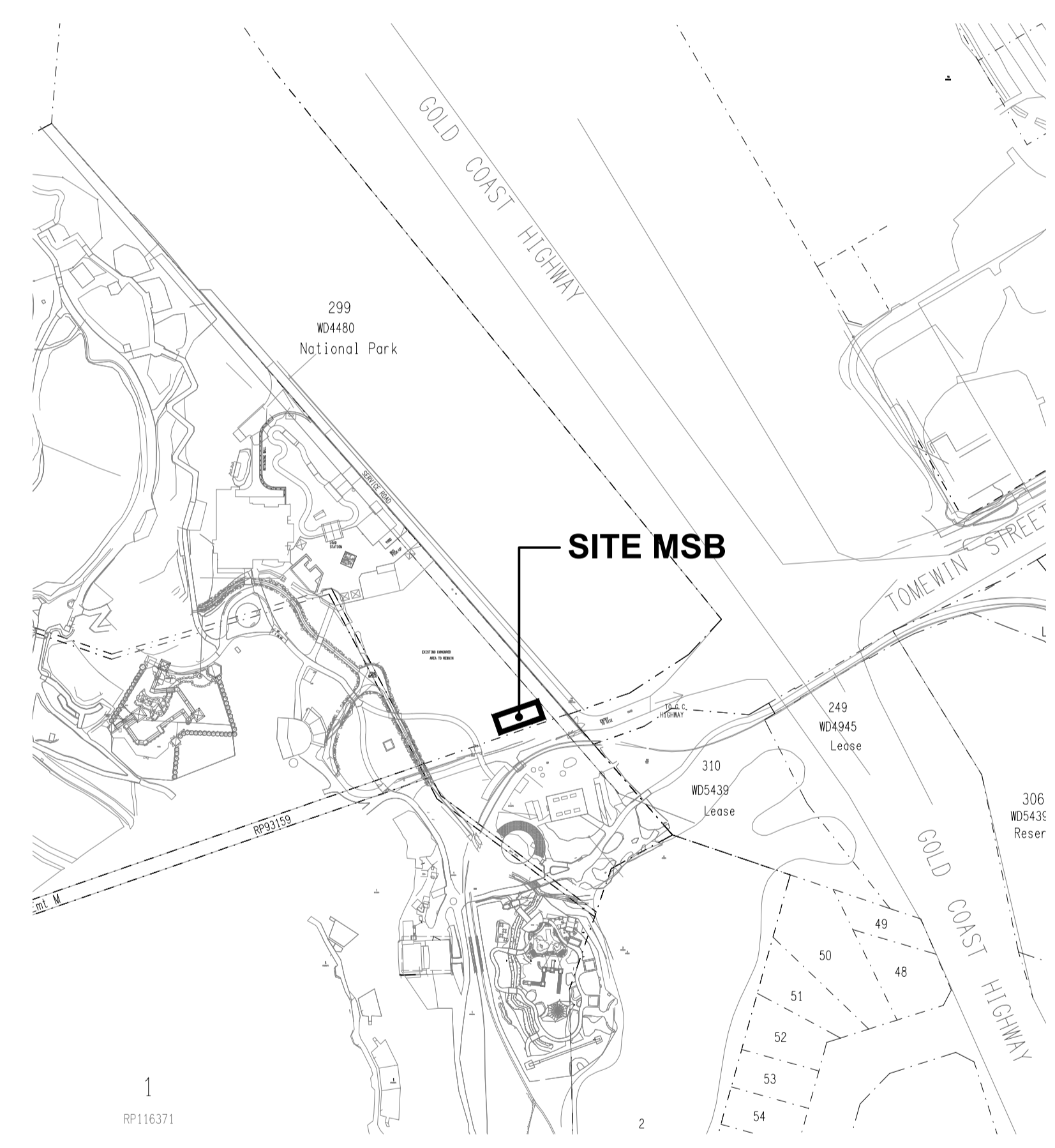
- A - AMP CURRENT RATING
- AB - MOUNT ABOVE BENCH.
- AFFL - ABOVE FINISHED FLOOR LEVEL.
- BB - MOUNT BELOW BENCH.
- CEIL - MOUNT ON CEILING.
- C/W - COMPLETE WITH.
- MCB - MINIATURE CIRCUIT BREAKER.
- MCCB - MOULDED CASE CIRCUIT BREAKER.
- MSB - MAIN SWITCHBOARD.
- N - NEON / LED INDICATOR WHEN ON.
- NTS - NOT TO SCALE.
- QDC - QUEENSLAND DEVELOPMENT CODE.
- RCBO - CIRCUIT BREAKER C/W AN INTEGRAL 30mA RESIDUAL CURRENT DEVICE.
- RCD - CIRCUIT PROTECTED VIA A 30mA RESIDUAL CURRENT DEVICE.
- UNO - UNLESS NOTED OTHERWISE.
- WP - WEATHERPROOF TO IP56 UNO.
- 500 - NUMBER DENOTES MOUNTING HEIGHT AFFL.

**LEGEND**

- ELECTRICAL SWITCHBOARD.
- ELECTRICAL CONTROL PANEL BY OTHERS.
- CIRCUIT BREAKER.
- LOAD BREAK NON-AUTO ISOLATOR.
- CONTACT.
- MECHANICAL INTERFACE.
- SINGLE PHASE.
- THREE PHASE.
- AUTHORITY CTS.
- GENERATOR CONTROLLER.
- REVENUE METER.
- MULTI-FUNCTION METER C/W DEMAND OUTPUT TO THE GENERATOR CONTROLLER.
- MULTI-FUNCTION METER C/W DEMAND OUTPUT TO THE GENERATOR CONTROLLER.

**LEGEND**

- PHASE FAILURE RELAY.
- ISOLATOR.
- IP54 10A SINGLE POWER OUTLET.
- IP54 10A DOUBLE POWER OUTLET.
- IP56 ONE-WAY LIGHT SWITCH.
- IP56 TWO-WAY LIGHT SWITCH.
- IP56 ONE-WAY LIGHT SWITCH C/W LED INDICATOR WHEN LIGHTS ARE ON.
- IP65 1200 LONG BATTEN C/W NON-MAINTAINED EMERGENCY PACK.
- IP65 1200 LONG BATTEN.



**LOCATION PLAN**

SITE MSB  
 SCALE 1:2000



ENERGEX ACCEPTANCE

NAME .....

OFFICE .....

SIGNED .....

DATE / /

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ELECTRICAL DESIGN GROUP BRISBANE PTY LTD ACN 092 710 793	THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE ELECTRICAL DESIGN GROUP.	CULVERT INSPECTION REQUIRED BEFORE TRANSFORMER IS DELIVERED - 5 BUSINESS DAYS PRIOR NOTICE NEEDED. CONTACT _____ PH: _____ EMAIL: _____	<b>ELECTRICAL DESIGN GROUP</b> ELECTRICAL BUILDING SERVICES CONSULTANTS BRISBANE GOLD COAST	PROJECT: CURRUMBIN WILDLIFE SANCTUARY SITE MSB	18/01/2024
				DRAWING: <b>ELECTRICAL SERVICES                  LEGEND &amp; NOTES</b>	DATE:
TRADING AS: ELECTRICAL DESIGN GROUP	USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.  ALL DIMENSIONS TO BE VERIFIED ONSITE.	TRANSFORMER WILL NOT BE ENERGISED UNTIL ALL REQUIREMENTS ARE MET.	P.O.Box 15, Sherwood Q.4075 Phone: (07) 3278 4375 Email: brisbane@edg.net.au Web: www.edg.net.au	28 TOMWIN STREET, CURRUMBIN, QUEENSLAND	B CONSTRUCTION REV: DESCRIPTION:
SCALE: 1:2000	AT A1	PROJECT NO: <b>C3112a</b>	DRAWING NO: <b>E01</b>	REVISION: <b>B</b>	