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 - BACKGROUND MUSIC SYSTEM.
- AS CONSTRUCTED DOCUMENTS.

- CABLE ACCESS. - 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.

PROVIDE A UNDERGROUND CONDUIT C/W SPARE DRAW WIRE BORED FROM THE EXISTING PIT TO A LV PILLAR FOR FUTURE USE.

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.
- 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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ACN 092 710 793	ELECTRICAL DESIGN GROUP.
TRADING AS:	USE FIGURED DIMENSIONS
ELECTRICAL DESIGN GROUP	IN PREFERENCE TO SCALE.
	ALL DIMENSIONS TO BE VERIFIED ONSITE.

NOTES

5. CABLES

ALL OF THE LIGHT FITTINGS, LAMPS AND ACCESSORIES ARE TO BE PROVIDED AS PART OF THIS UNLESS OTHERWISE SPECIFIED. INSTALL AND TERMINATE CABLES IN ACCORDANCE WITH THE CONTRACT. THE HOMESTEAD IS TO BE PROVIDED WITH A PHILIPS DYNALITE LIGHTING CONTROL MANUFACTURERS' RECOMMENDATIONS. DETERMINE THE FINAL ROUTES TO SUIT THE BUILDING SYSTEM. THE LIGHTING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE STRUCTURE AND SITE CONDITIONS. UNLESS NOTED OTHERWISE, PROVIDE ALL 240 VOLT POWER FOLLOWING EXTENT OF WORK: AND LIGHTING WIRING AS 2.5mm² TWIN & EARTH STRANDED COPPER CONDUCTORS, PVC INSULATED LIGHTING. 0.6/1kV V75 GRADE TO AS3174, PROTECTED BY A 20 AMP CIRCUIT BREAKER. ALL CONDUIT - LIGHT FITTINGS AND ACCESSORIES. AND FITTINGS TO BE RIGID UPVC TO AS2053, UNLESS NOTED OTHERWISE. - EMERGENCY AND EXIT LIGHTING.

6. POWER DISTRIBUTION

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF A NEW UNDERGROUND SUBMAINS FROM THE NEW SITE MSB TO DB-A, DB-B AND DB-CW. DISTRIBUTION BOARDS DB-A. DB-B AND DB-C ARE TO BE PROVIDED AS PART OF THESE WORKS. THE NEW SITE MSB CONTAINS MCCBS LABELLED HOMESTEAD, TRACTOR RIDE AND CROC WORLD THAT ARE TO BE USED TO SUPPLY THE NEW SUBMAINS.

THE NEW DISTRIBUTION BOARD DB-C IS TO BE SUPPLIED AS A SUB BOARD FROM DB-B. EXISTING DISTRIBUTION BOARD DB-LW IS TO BE RESUPPLIED AS A SUB BOARD FROM DB-A. $\sim\sim\sim\sim$

PROVIDE AN UNDERGROUND BORED CONDUIT FROM (THE DB-A ACCESS TRENCH) O DB-CW TO FACILITATE THE INSTALLATION OF THE NEW DB CW SUBMAIN, ROVIDE AN UNDERGROUND BORED CONDUIT FROM THE DB-A ACCESS TRENCH TO DB-LW TO FACILITATE THE INSTALLATION OF THE NEW DB-LW SUBMALA

UPON THE CONNECTION OF THE NEW SUPPLIES TO DB-CW AND DB-LW REMOVE THE EXISTING REDUNDANT SUBMAINS.

THESE WORKS.

- THE FOLLOWING EXTENT OF WORK:
- POWER DISTRIBUTION. - DISTRIBUTION BOARDS DB-A, DB-B AND DB-C.
- DB-A, DB-B AND DB-CW SUBMAINS FROM THE SITE MSB.
- DB-C SUBMAINS FROM DB-B.
- DB-LW SUBMAINS FROM DB-B. - CABLE ACCESS WAYS.
- BORED UNDERGROUND CONDUITS.
- CIRCUITS.
- ISOLATORS AND OUTLETS.
- TESTING AND COMMISSIONING.

PROVIDE THE DISTRIBUTION BOARDS AS/WITH: - SHOP DRAWINGS FOR APPROVAL.

- WALL MOUNTED. - 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

POWER.

DETAILS.

7. COMMUNICATIONS CABLING

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, A NEW COMMUNICATIONS RACK CR-A IN THE HOMESTEAD BUILDING WITH A CAT 6 CABLING PLANT FOR ALL OF THE COMMUNICATIONS AND CCTV OUTLETS. THE BACKGROUND MUSIC AMPLIFIERS AND FUTURE AV EQUIPMENT WILL BE LOCATED IN CR-A. PROVIDE CR-A WITH A FOBOT AND A LC FULLY TERMINATED 12 CORE OSM OPTICAL FIBRE CABLE THROUGH THE EXISTING UNDERGROUND PIT AND CONDUIT SYSTEM TO A NEW FOBOT IN THE EXISTING ADMINISTRATION BUILDING COMMUNICATION RACK CR-ADMIN.

THE COMMUNICATIONS CABLE ACCESS INTO THE HOMESTEAD BUILDING IS VIA THE DB-A ACCESS TRENCH THEN UP THE WALL VIA A DEDICATED 150 WIDE COMMUNICATIONS CABLE TRAY TO THE ACCESSIBLE CEILING SPACE.

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

- COMMUNICATIONS RACK CR-A.
- FOBOTS.
- PATCH PANELS.
- CAT 6 COMMUNICATIONS OUTLETS AND CABLING.
- CAT 6 CCTV POINT AND CABLING.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

8. BACKGROUND MUSIC SYSTEM

PROVIDE THE HOMESTEAD WITH A SIX ZONE BACKGROUND MUSIC SYSTEM INCLUDING SPEAKERS AND AMPLIFIERS LOCATED IN THE COMMUNICATIONS RACK CR-A. PROVIDE TWO OFF 4 X 120W REDBACK A4310 AMPLIFIERS TO ACCOMMODATE THE SIX ZONES WITH THE AMPLIFIERS MOUNTED AT THE TOP OF THE RACK.

TO THE FOLLOWING EXTENT OF WORK: - SPEAKERS ABD CABLING.

- AMPLIFIERS.
- BALANCING OF THE SPEAKERS.

ALL OF THE REQUIRED ISOLATORS, OUTLETS AND CIRCUITS ARE TO BE PROVIDED AS PART OF

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

- REMOVAL OF ALL EXISTING ELECTRICAL SERVICES MADE REDUNDANT BY THE WORKS.

- ENSURE ALL CABLE CONNECTIONS CAN BE THERMALLY SCANNED WITHOUT ISOLATING THE

REFER TO THE DISTRIBUTION BOARD SCHEDULES FOR ADDITIONAL REQUIREMENTS AND CIRCUIT

- OPTICAL FIBRE CABLE BETWEEN CR-A AND CR-ADMIN.

THE BACKGROUND MUSIC SYSTEM COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED

NOTES

9. LIGHTING

- EARTHING OF THE LIGHTING INSTALLATION. LIGHTING CONTROL.
- PHILIPS DYNALITE LIGHTING CONTROL SYSTEM.
- LIGHTING SUBCIRCUITS. - TESTING AND COMMISSIONING.

PROVIDE THE HOMESTEAD WITH 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. ABBREVIATIONS

- AMP CURRENT RATING
- AB MOUNT ABOVE BENCH.
- AFFL ABOVE FINISHED FLOOR LEVEL
- MOUNT BELOW BENCH. BB 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.
- MCCB MOULDED CASE CIRCUIT BREAKER.
- MSB MAIN SWITCHBOARD.
- MW MICROWAVE. - 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. - CIRCUIT PROTECTED VIA A 30mA RESIDUAL CURRENT DEVICE.
- RCD REF - REFRIGERATOR.
- UNO UNLESS NOTED OTHERWISE.
- WP WEATHERPROOF TO IP56 UNO.
- 500 NUMBER DENOTES MOUNTING HEIGHT AFFL.



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ELECTRICAL BUILDING

ELECTRICAL DESIGN GROUP CONSULTANTS GOLD COAST

SERVICES

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