

## 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.
- CO-ORDINATION.
- INSPECTIONS.
- TESTING AND COMMISSIONING.
- MAINTENANCE.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- POWER DISTRIBUTION.
- LIGHTING.
- COMMUNICATIONS CABLING.
- AV CABLING.
- INTRUDER DETECTION.
- SCHOOL BELL.
- 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 ALL WORKS THAT HAVE AN EFFECT ON OR WILL BE AFFECTED BY THE ELECTRICAL SERVICES.

REMOVE ALL OF THE EXISTING ELECTRICAL SERVICES THAT BECOME REDUNDANT DUE TO THE WORKS.

### 2. WORKMANSHIP

ENSURE THAT THE WORK IS PERFORMED BY THE HOLDER OF A CURRENT ELECTRICAL SUB CONTRACTOR 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.
- 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 RESCUE AUTHORITY.

### 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.

## NOTES

### 6. POWER DISTRIBUTION

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES REPLACING THE EXISTING DISTRIBUTION BOARD DB-UCA WITH A 84 POLE VERSION OF THE EXISTING BOARD. ALL EXISTING CIRCUITS MADE REDUNDANT BY THE WORKS ARE TO BE REMOVED. ALL OF THE EXISTING REMAINING CIRCUITS AND CONTROLS ARE TO BE REINSTATED. IT IS ACCEPTABLE TO UTILISE THE EXISTING SWITCHGEAR. NEW SWITCHGEAR IS TO BE PROVIDED AS REQUIRED TO ACCOMMODATE THE NEW CIRCUITS. THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- POWER DISTRIBUTION.
- REPLACEMENT OF DB-UCA.
- EARTHING.
- REMOVAL OF EXISTING REDUNDANT CIRCUITS.
- CIRCUITS.
- ISOLATORS AND OUTLETS.
- TESTING AND COMMISSIONING.

ENSURE THAT POWER IS MAINTAINED TO THE REMAINING PARTS OF THE SCHOOL AT ALL TIMES.

### 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.
- REMOVAL OF ALL EXISTING LIGHTS MADE REDUNDANT BY THE WORKS.
- EMERGENCY AND EXIT LIGHTING.
- EARTHING OF THE LIGHTING INSTALLATION.
- LIGHTING CONTROL.
- LIGHTING SUBCIRCUITS.
- TESTING AND COMMISSIONING.

### 8. COMMUNICATIONS

PROVIDE CAT 6 UTP COMMUNICATIONS OUTLETS CABLED TO CR-UCA WITH NEW PATCH PANELS AS REQUIRED. THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- REMOVAL OF EXISTING REDUNDANT CABLING.
- NEW COMMUNICATIONS OUTLETS.
- MODIFICATION TO THE ARRANGEMENT OF THE EXISTING PATCH PANELS WITHIN CR-A AS REQUIRED.
- UPDATE THE PORT AND OUTLET LABELLING TO REFLECT THE FINAL AS CONSTRUCTED ARRANGEMENT AT PRACTICAL COMPLETION.
- TESTING AND COMMISSIONING.

### 9. INTRUDER DETECTION

A. B. C. ALARMS PTY. LTD. ANDRE CAFUN andrec@abcalarms.com.au PH (07) 3849 1939 MOB: 0408 917 505 IS TO BE ENGAGED AS A NOMINATED SUBCONTRACTOR TO THE ELECTRICAL SUB CONTRACTOR TO UNDERTAKE ALL WORKS ASSOCIATED WITH THE INTRUDER DETECTION. THE EXISTING SECURITY PANELS ARE TO BE RETAINED AND EXPANDED AS NECESSARY TO ACCOMMODATE THE NEW INTRUDER DETECTION SERVICES.

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

- EXPANDER PANELS.
- REMOVAL OF EXISTING REDUNDANT CABLING AND EXISTING COMPONENTS WITHIN THE SCOPE OF WORK.
- MODIFICATION OF ALL EXISTING EXPOSED SECURITY SERVICES WITHIN THE SCOPE OF THE WORKS SUCH THAT THEY ARE CONCEALED UNLESS SPECIFICALLY REQUIRED TO BE EXPOSED FOR THE OPERATION OF THE COMPONENT.
- TESTING AND COMMISSIONING.
- INTRUDER DETECTORS.

THE EXISTING CABLING CAN BE REUSED IF IT IS IN APPROPRIATE CONDITION AND THE CONTRACTOR ASSUMES FULL WARRANTY OVER IT AS IF THEY HAVE INSTALLED IT AS PART OF THESE WORKS.

### 10. SCHOOL BELL

THE SCHOOL BELL COMPONENT OF THIS CONTRACT IS TO INCLUDE THE REPLACEMENT OF THE HORN SPEAKERS WITHIN THE MAIN HALL WITH RECESSED CONE SPEAKERS AND NEW RECESSED CONE SPEAKERS IN THE NEW GLASS. THE SCHOOL BELL COMPONENT OF THIS CONTRACT IS TO INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- REMOVAL OF THE SPEAKERS AS NOTED.
- NEW SPEAKERS.
- UPGRADING THE EXISTING SCHOOL BELL AMPLIFIER TO ACCOMMODATE THE NEW SPEAKERS.
- BALANCING.
- TESTING AND COMMISSIONING.

## NOTES

### 11. AUDIO VISUAL

ASV AUDIO VISUAL ARE TO BE REENGAGED AS A NOMINATED SUBCONTRACTOR TO THE ELECTRICAL SUB CONTRACT TO PROVIDE THE AUDIO VISUAL COMPONENT OF THIS CONTRACT WHICH INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- RE-LOCATE EXISTING PROJECTORS, SCREENS AND SPEAKER EQUIPMENT IN HALL.
- SUPPLY AND INSTALL NEW PROJECTORS, GREY BOARDS REDCAT'S TO THE LOWER LEVEL MULTI PURPOSE ROOMS.
- EPSON EB-760W1, INTERACTIVE ULTRA SHORT THROW LASER DATA PROJECTOR.
- 2 EPSON ELPMB62 UST PROJECTOR WALL MOUNT.
- 2 KRAMER TAVOR 5-0 POWERED SPEAKERS (WHITE).
- 2 FINELINE GREYBOARD 2100MM X 1217MM BLACK FRAME NO P/TRAY 2 UCONNECT MINI SYSTEM.
- 2 REDCAT NG 1 F/MIKE, CHARGING ADAPTOR AND CABLE.
- WALL PLATES AND IN WALL CABLING BY OTHERS.
- HALL AV REINSTALLATION.
- 1 UCONNECT MINI SYSTEM.
- SUPPLY UCONNECT HEARING AUGMENTATION TO BOTH MP ROOMS AND HALL.

THE IN BUILDING AV CABLING IS TO BE INSTALLED BY THE ELECTRICAL SUB CONTRACTOR IN ACCORDANCE WITH THE ASV AUDIO VISUAL DESIGN AND SPECIFICATION.

THE UCONNECT WALL RECESSED UNITS SUPPLIED BY ASV AUDIO VISUAL AND INSTALLED BY THE CONTRACTOR.

### 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.
- CS - MOUNT WITHIN CEILING SPACE.
- MCB - MINIATURE CIRCUIT BREAKER.
- MSB - MAIN SWITCHBOARD.
- MSSB - MECHANICAL SERVICES SWITCHBOARD.
- MW - MICROWAVE.
- N - NEON / LED INDICATOR WHEN ON.
- NTS - NOT TO SCALE.
- RCBO - CIRCUIT PROTECTED VIA A 30ma RESIDUAL CURRENT DEVICE INTEGRAL TO THE CIRCUIT BREAKER. 3-PHASE RCBO TO BE 4-POLE.
- REF - REFRIGERATOR.
- SUS - MOUNT SUSPENDED FROM CEILING.
- UNO - UNLESS NOTED OTHERWISE.
- WP - WEATHERPROOF TO IP56 UNO.
- 500 - NUMBER DENOTES MOUNTING HEIGHT AFFL.

C	CONSTRUCTION	20/03/2026
REV:	DESCRIPTION:	DATE:

DRAWING:  
**ELECTRICAL SERVICES**  
**NOTES**

SCALE: NOT TO SCALE AT A1	PROJECT NO: <b>C3491a</b>	DRAWING NO: <b>E04</b>	REVISION: <b>C</b>
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PROJECT:  
**ST PIUS PRIMARY SCHOOL, BANYO  
HALL & GLA REFURBISHMENT**

APPERLEY STREET, BANYO, QUEENSLAND