

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.
- AS BUILT DRAWINGS.
- MAINTENANCE MANUAL.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- POWER DISTRIBUTION.
- LIGHTING.
- COMMUNICATIONS CABLING.
- PUBLIC ADDRESS SYSTEM.
- SECURITY.
- MOBILE PHONE BOOSTER SYSTEM.
- DOOR BELL SYSTEM.
- TV ANTENNA SYSTEM.
- 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.

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.

CONFIRM THE POSITION OF ALL OUTLETS ON SITE WITH THE COLLEGE PRIOR TO ROUGH-IN.

UPDATE THE COLLEGES EXISTING AS BUILT DOCUMENTS AND MAINTENANCE MANUAL TO INCLUDE THE NEW 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 CONDUITS WILL NEED TO BE INCLUDED WITHIN THE PRECAST PANELS. 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.

ALL WORK IS TO BE UNDERTAKEN IN SUCH A MANNER THAT THE OPERATION OF THE REMAINING COLLEGE AREAS ARE NOT UNDULY EFFECTED BY THE WORKS.

3. STANDARDS

IRRESPECTIVE OF INFORMATION CONTAINED IN THE FIRE ALARM SYSTEM DOCUMENTS OR IN INSTRUCTIONS, IT IS THE FIRE ALARM SYSTEM SUB CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL FIRE ALARM SYSTEM WORKS ARE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING. REFER ANY DISCREPANCIES BETWEEN THE REQUIREMENTS OF THE FOLLOWING AND/OR THE FIRE ALARM SYSTEM 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.
- FIRE ENGINEERING REPORT.
- ELECTRICITY ACT.
- ELECTRICAL SAFETY ACT.
- AS/NZS3000.
- AS3008.
- AS/NZS 5033: 2021.
- AS/NZS 4777. 1: 2024
- 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 WORKPLACE, HEALTH AND SAFETY AUTHORITY.
- LOCAL FIRE AND RESCUE AUTHORITY.
- SOLAR ACCREDITATION AUSTRALIA.

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 2.5mm² 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 PROVIDING THE EXISTING MSB WITH A NEW MCCB TO SUPPLY THE NEW DISTRIBUTION BOARD DB-10 VIA A NEW UNDERGROUND SUB MAIN VIA THE EXISTING UNDERGROUND PITS AND CONDUITS. PROVIDE DB-10 WITH MCCBS TO SUPPLY THE NEW DISTRIBUTION BOARDS DB-P, DB-L, THE IDB AND THE MECHANICAL SWITCHBOARD MSSB. PROVIDE DB-10 WITH THE ENERGY MONITORING EQUIPMENT AND 24 SPARE DIN RAIL POLES FOR THE FUTURE CONNECTION SOLAR / BATTERIES AS PER J9D5 OF THE NCC BCA 2022. LABEL ONE OF THE SPARE CIRCUIT BREAKER POSITIONS AND TWELVE OF THE DIN RAIL SPACES (RESERVED FOR SOLAR / BATTERIES).

PROVIDE AN ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022 THAT COLLABATES THE TIME-OF-USE ENERGY DATA TO A SINGLE INTERFACE WHERE IT CAN BE STORED, ANALYSED AND REVIEWED. SUBMIT DETAILS OF THE ENERGY MONITORING SYSTEM FOR APPROVAL.

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

- POWER DISTRIBUTION.
- EARTHING.
- PROVIDE A NEW MCCB IN THE MSB.
- NEW SUBMANS FROM THE MSB TO DB-10.
- ENERGY MONITORING SYSTEM.
- DISTRIBUTION BOARDS DB-10, DB-P AND DB-L.
- SUBMANS FROM DB-10 TO DB-P, DB-L, THE IDB AND THE MSSB.
- PROVIDE AN INFRARED SCAN OF THE MSB AND ALL DISTRIBUTION BOARDS PROVIDED AS PART OF THE WORKS ONE WEEK AFTER PRACTICAL COMPLETION. PROVIDE A LOGGING CHART RECORDING OF THE DB-A MAINS CURRENT, VOLTAGE, FREQUENCY FOR THE FIRST 14 DAYS FOLLOWING PRACTICAL COMPLETION AND SUBMIT THE THERMO SCAN AND CHART RECORDING AND FOR APPROVAL.
- CIRCUITS.
- ISOLATORS AND OUTLETS.
- TESTING AND COMMISSIONING.
- SWITCHBOARD SHOP DRAWING.

THE POWER SUPPLY TO THE REMAINDER OF THE COLLEGE MUST BE MAINTAINED AT ALL TIMES THE COLLEGE IS OPEN INCLUDING THE AFTER HOURS CARE. ANY INTERRUPTION TO THE POWER SUPPLY MUST BE ADVISED TO THE COLLEGE IN WRITING TWO WEEKS PRIOR.

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

ENSURE ALL OUTLETS AND ISOLATORS ARE POSITIONED SUCH THAT THEY ARE NOT COVERED BY THE EQUIPMENT. THE FINAL POSITION OF ALL OUTLETS AND ISOLATORS ARE TO BE CONFIRMED ON SITE BY THE COLLEGE.

7. LIGHTING

THE LIGHTING COMPONENT OF THIS CONTRACT INCLUDES INTERNAL LIGHTING TO ALL AREAS OF THE BUILDING, EXTERNAL LIGHTING, GENERAL LIGHTING CONTROL, EMERGENCY AND EVACUATION LIGHTING AND THE LIGHTING SUB CIRCUIT WIRING. ALL OF THE LIGHT FITTINGS AND ACCESSORIES ARE TO BE PROVIDED AS PART OF THIS CONTRACT. ALL LIGHT SOURCES ARE TO BE SOLID STATE LED WITH A 5-YEAR MANUFACTURERS WARRANTY. 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:

- INTERNAL AND EXTERNAL LIGHTING.
- EMERGENCY AND EXIT LIGHTING.
- EARTHING OF THE LIGHTING INSTALLATION.
- LIGHTING CONTROL.
- INTERFACE THE INTERNAL LIGHTING TO THE SECURITY SYSTEM SUCH THAT WHEN THE SECURITY SYSTEM IS ARMED THE INTERNAL LIGHTS ARE DISABLED / OFF.
- 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.

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.

8. SECURITY

DJF SECURITY DAN FARAGO 0451 871 932 dan@djfsecurity.com IS TO BE ENGAGED AS A NOMINATED SUB-CONTRACTOR TO THE ELECTRICAL SUB-CONTRACT TO UNDERTAKE THE SECURITY WORKS. THE SECURITY SYSTEM COMPONENT OF THIS CONTRACT INCLUDES THE EXPANSION OF THE COLLEGES EXISTING INNER RANGE INTEGRITY SECURITY SYSTEM INTO THE BUILDING TO PROVIDE INTRUDER DETECTION AND ACCESS CONTROL. PROVIDE THE BMS PANEL WITH A LOW-LEVEL SIGNAL TO INDICATE THE ARMING STATUS OF THE SECURITY SYSTEM TO THE BMS. COORDINATE THE CONNECTION WITH THE BMS CONTRACTOR ON SITE.

ALL SECURITY PANELS INCLUDING ANY EXPANDER PANELS MUST BE LOCATED WITHIN THE LEVEL 1 COMMUNICATIONS ROOM. CONNECT THE BUILDING SECURITY EQUIPMENT TO THE EXISTING SYSTEM VIA THE COLLEGES ETHERNET NETWORK VIA A COLE ETHERNET BRIDGE. THE ETHERNET SETTINGS ARE TO BE COORDINATED WITH THE COLLEGES IT STAFF. THE SECURITY SYSTEM COMPONENT OF THIS CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- INTRUDER DETECTION SYSTEM POWER SUPPLY AND DISTRIBUTION.
- EARTHING.
- MOVEMENT DETECTORS.
- PIEZO ALARMS.
- KEY PANELS.
- ZONE EXPANDERS.
- ETHERNET BRIDGES.
- CARD READERS.
- DOOR CONTROLLERS.
- AUTO DOOR INTERFACES.
- ROLLER SHUTTER DOOR INTERFACES.
- LIFT INTERFACE.
- DATA BUS.
- CABLING.
- LABELLING.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

THE ELECTRIC STRIKES AND CABLE TRANSFER HINGES WILL BE PROVIDED BY THE CONTRACTOR AND INSTALLED INTO THE DOOR FRAME IN THE DOOR FRAME PRIOR TO DELIVERY TO SITE.

NOTES

9. COMMUNICATIONS CABLING

EDC SYSTEMS PTY LTD, 3/40 PROPRIETARY ST, TINGALPA QUEENSLAND 4173 - ROBERT BLAKE 0422796412 PHONE 07 38907068 robert.blake@edcsystems.com.au ARE TO BE ENGAGED AS A NOMINATED SUB-CONTRACTOR TO THE ELECTRICAL SUB-CONTRACT TO UNDERTAKE THE COMMUNICATIONS CABLING. THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES A NEW COMMUNICATION RACK CR-10 TO SUPPORT CAT 6 RJ45 OUTLETS CABLED TO MODULAR PATCH PANELS IN THE COMMUNICATIONS RACK CR-10 VIA CAT 6 UTP CABLING. PROVIDE AN UNDERGROUND LOOSE TUBE GEL FILLED 12 CORE OS2 OPTICAL FIBRE CABLES FULLY TERMINATED WITH LC CONNECTORS IN A FIBOT IN CR-10 TO THE EXISTING COMMUNICATIONS RACK CR-56.

PROVIDE THE COMMUNICATIONS SYSTEM AS A PROPRIETY MOLEX STRUCTURED CABLING SYSTEM WITH A COMPONENT MANUFACTURERS 25-YEAR WARRANTY OVER THE COMMUNICATIONS INSTALLATION. INCLUDE A COPY OF THE PROPRIETY STRUCTURED CABLING SYSTEM MANUFACTURER S WARRANTY IN THE OPERATIONS AND MAINTENANCE MANUAL.

AS PART OF THE COMMUNICATIONS COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT PROVIDE CAT 6 RJ45 CCTV AND VAPE SENSOR PLUGS. THE COMMUNICATIONS COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES UNTERMINATED CABLING FOR THE ACCESS CONTROL SYSTEM AND INTRUDER DETECTION SECURITY SYSTEM. THE POSITION OF THE CCTV PLUGS, VAPE PLUGS, ACCESS CONTROL SYSTEM AND INTRUDER DETECTION SECURITY SYSTEM CABLES ARE TO BE CONFIRMED ON SITE WITH THE COLLEGE PRIOR TO ROUGH-IN. THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- COMMUNICATIONS OUTLETS AND CABLING.
- CCTV AND VAPE PLUGS AND CABLING.
- HDMI OUTLETS AND CABLING.
- COMMUNICATIONS RACK CR-10.
- PATCH PANELS.
- FIBOT.
- OPTICAL FIBRE CABLE CONNECTION CR-10 TO CR-56.
- LABELLING.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

ALL COMMUNICATIONS CABLING IS TO BE UNDERTAKEN BY AN ACMA LICENCE HOLDER. THE PATCH LEADS, FLY LEADS, UPS, VAPE SENSORS, CCTV CAMERAS AND ACTIVE COMMUNICATIONS EQUIPMENT WILL BE PROVIDED BY THE COLLEGE.

10. PUBLIC ADDRESS SYSTEM

THE PUBLIC ADDRESS SYSTEM COMPONENT OF THIS CONTRACT INCLUDES MULTI TAP 100V SPEAKERS AND HORNS CABLED TO POWER AMPLIFIERS MOUNTED WITH IN THE TOP OF COMMUNICATIONS RACK CR-10. PROVIDE THREE SEPARATE AMPLIFIERS CONFIGURED AS THREE ZONES BEING EXTERNAL, FIRST AND SECOND FLOORS INTERNAL AND GROUND. PRIOR TO PRACTICAL COMPLETION, PROVIDE A TEMPORARY MUSIC SOURCE TO AIM / BALANCE THE SPEAKERS AND HORNS ON SITE AS DIRECTED BY THE COLLEGE.

THE PUBLIC ADDRESS SYSTEM COMPONENT OF THIS CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- SPEAKERS AND HORNS.
- CABLING RUN IN STAR CONFIGURATION.
- RACK MOUNTED AMPLIFIERS.
- CO-ORDINATION.
- AS CONSTRUCTED DOCUMENTS INCLUDING DRAWINGS DETAILING THE LOOP PATH OF EACH SPEAKER CABLE.
- LABELLING.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

ALL PUBLIC ADDRESS SYSTEM WORKS MUST BE UNDERTAKEN BY AN ACMA LICENCE HOLDER. THE AUDIO / IP CONVERTERS, THE CONNECTION OF THE AMPLIFIERS TO THE AUDIO / IP CONVERTERS AND PATCH LEADS WILL BE PROVIDED BY THE COLLEGE.

PROVIDE COMPREHENSIVE DETAILS OF THE PROPOSED EQUIPMENT AND COMPONENTS OF THE PA SYSTEM FOR APPROVAL.

11. MOBILE PHONE BOOSTER SYSTEM

TELCO ANTENNAS PTY LTD UNITS 3-6, 1 ROEBUCK ST, HEMMANT, 4174 PHONE +617 3393 9919 MOBILE +61418181155 EMAIL: lemon.wiki@telcoantennas.com.au IS TO BE ENGAGED AS A NOMINATED SUB-CONTRACTOR TO THE ELECTRICAL SUB-CONTRACT TO UNDERTAKE THE PROVISION OF A THREE CARRIER MOBILE PHONE BOOSTER SYSTEM AS A DESIGN AND CONSTRUCT SUB CONTRACT.

THE MOBILE PHONE BOOSTER SYSTEM COMPONENT OF THIS CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- DESIGN.
- ROOF ANTENNAS.
- DOWNLEADS.
- AMPLIFIERS.
- DISTRIBUTION EQUIPMENT.
- CABLING.
- INTERNAL OMNIDIRECTIONAL CEILING ANTENNAS.
- LABELLING.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

12. TV ANTENNA

PROVIDE A ROOF MOUNTED TELEVISION ANTENNA TO RECEIVE AND DISTRIBUTE THE LOCALLY AVAILABLE FREE TO AIR TELEVISION SERVICES TO THE MATC OUTLET.

THE TV ANTENNA SYSTEM COMPONENT OF THIS CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- TV ANTENNA AND DOWN LEAD.
- TV OUTLET.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

13. 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.
MCB - MINIATURE CIRCUIT BREAKER.
MCCB - MOUNDED CASE 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.
REF - REFRIGERATOR.
SM - SURFACE MOUNTED.
UNO - UNLESS NOTED OTHERWISE.
WP - WEATHERPROOF TO IP56 UNO.
500 - NUMBER DENOTES MOUNTING HEIGHT AFFL.

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